

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB End Sample Set - Run 1

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
1	UBA_Leptoll_Scaffold_8135_GENE_9_SigP	391	24	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
1	UBA_Leptoll_Scaffold_8049_GENE_366_SigP	842	4	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
1	UBA_Leptoll_Scaffold_8524_GENE_128_SigP	395	38	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
1	5way_CG_Leptoll_scaff_178_GENE_9_SigP	38	14	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
1	UBA_Leptoll_Scaffold_8049_GENE_321_SigP	38	14	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
1	5way_CG_Leptoll_scaff_3_GENE_5_SigP	243	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
1	5way_CG_Leptoll_scaff_46_GENE_4_SigP	37	4	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
1	UBA_Leptoll_Scaffold_7931_GENE_101_SigP	37	4	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
1	Unass_bact_scaff_1131_GENE_3_SigP	105	18	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
1	UBA_Leptoll_Scaffold_7931_GENE_352_SigP	43	6	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
1	5way_CG_Leptoll_scaff_374_GENE_7_SigP	167	37	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
1	UBA_Leptoll_Scaffold_8241_GENE_153_SigP	167	37	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
1	UBA_Leptoll_Scaffold_8241_GENE_297_SigP	447	29	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
1	5way_CG_Leptoll_scaff_6_GENE_19_SigP	349	38	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
1	UBA_Leptoll_Scaff_388_1_SigP	57	4	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
1	5way_CG_Leptoll_scaff_62_GENE_1_SigP	91	5	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
1	5way_CG_Leptoll_scaff_4_GENE_16_SigP	291	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
1	UBA_Leptoll_Scaffold_8049_GENE_83_SigP	187	39	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
1	UBA_Leptoll_Scaffold_8524_GENE_201_SigP	71	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
1	5way_CG_Leptoll_scaff_3_GENE_4_SigP	301	25	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
1	UBA_Leptoll_Scaffold_8049_GENE_192_SigP	242	18	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
1	UBA_Leptoll_Scaffold_7931_GENE_365_SigP	180	5	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
1	5way_CG_Leptoll_scaff_62_GENE_10_SigP	342	24	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
1	UBA_Leptoll_Scaffold_8135_GENE_71_SigP	139	5	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
1	UBA_Leptoll_Scaffold_8241_GENE_121_SigP	294	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
1	5way_CG_Leptoll_scaff_32_GENE_19_SigP	309	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114
1	5way_CG_Leptoll_scaff_46_GENE_16_SigP	61	4	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
1	UBA_Leptoll_Scaffold_7931_GENE_111_SigP	61	4	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
1	UBA_Leptoll_Scaff_398_2_SigP	24	0	0	(-) # pl:10.81 MW:15675
1	UBA_Leptoll_Scaffold_8049_GENE_48_SigP	44	6	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
1	UBA_Leptoll_Scaffold_8241_GENE_565_SigP	97	0	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
1	UBA_Leptoll_Scaffold_8062_GENE_151_SigP	42	5	0	Hypothetical protein 158736:159437 reverse # pl:10.88 MW:26479
1	UBA_Leptoll_Scaffold_8524_GENE_249_SigP	175	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
1	5way_CG_Leptoll_scaff_32_GENE_25_SigP	271	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
1	5way_CG_Leptoll_scaff_511_GENE_2_SigP	206	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
1	UBA_Leptoll_Scaffold_8241_GENE_348_SigP	408	16	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
1	UBA_Leptoll_Scaffold_8241_GENE_392_SigP	21	1	0	Hypothetical protein 371271:371777 forward # pl:11.11 MW:18296
1	UBA_Leptoll_Scaffold_8524_GENE_235_SigP	38	0	0	Cytochrome c551/c552 219925:220257 reverse # pl:9.89 MW:11806
1	5way_CG_Leptoll_scaff_48_GENE_32_SigP	73	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
1	UBA_Leptoll_Scaffold_8062_GENE_53_SigP	72	3	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
1	5way_CG_Leptoll_scaff_66_GENE_6_SigP	31	7	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
1	UBA_Leptoll_Scaffold_7931_GENE_73_SigP	31	7	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
1	5way_CG_Leptoll_scaff_23_GENE_15_SigP	138	39	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
1	UBA_Leptoll_Scaffold_8241_GENE_349_SigP	246	0	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
1	UBA_Leptoll_Scaffold_8241_GENE_522_SigP	77	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
1	UBA_Leptoll_Scaffold_8241_GENE_573_SigP	44	1	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
1	UBA_Leptoll_Scaffold_8049_GENE_209_SigP	36	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
1	5way_CG_Leptoll_scaff_141_GENE_3_SigP	174	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
1	5way_CG_Leptoll_scaff_80_GENE_22_SigP	144	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
1	UBA_Leptoll_Scaffold_8062_GENE_34_SigP	64	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
1	UBA_Leptoll_Scaffold_7931_GENE_338_SigP	120	0	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
1	UBA_Leptoll_Scaffold_7931_GENE_97_SigP	51	0	0	Hypothetical protein 95055:95750 reverse # pl:8.82 MW:26173
1	5way_CG_Leptoll_scaff_297_GENE_5_SigP	51	0	0	hypothetical protein 2435933:2436628 forward # pl:8.82 MW:26173
1	UBA_Leptoll_Scaffold_8241_GENE_114_SigP	262	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
1	UBA_Leptoll_Scaffold_8241_GENE_693_SigP	318	43	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
1	5way_CG_Leptoll_scaff_14_GENE_26_SigP	33	5	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
1	5way_CG_Leptoll_scaff_42_GENE_33_SigP	198	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
1	UBA_Leptoll_Scaffold_8241_GENE_238_SigP	170	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
1	UBA_Leptoll_Scaffold_8241_GENE_56_SigP	47	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
1	5way_CG_Leptoll_scaff_21_GENE_26_SigP	47	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
1	UBA_Leptoll_Scaffold_8062_GENE_32_SigP	70	0	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
1	UBA_Leptoll_Scaffold_8524_GENE_216_SigP	29	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
1	UBA_Leptoll_Scaffold_8241_GENE_298_SigP	241	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
1	UBA_Leptoll_Scaffold_8524_GENE_269_SigP	24	1	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589
1	5way_CG_Leptoll_scaff_8_GENE_23_SigP	44	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
1	5way_CG_Leptoll_scaff_333_GENE_9_SigP	16	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
1	5way_CG_Leptoll_scaff_43_GENE_14_SigP	75	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
1	UBA_Leptoll_Scaff_399_92_SigP	31	7	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
1	UBA_Leptoll_Scaffold_8062_GENE_173_SigP	28	4	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
1	UBA_Leptoll_Scaffold_8062_GENE_236_SigP	83	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
1	UBA_Leptoll_Scaff_395_29_SigP	83	0	0	(-) # pl:9.79 MW:70443
1	5way_CG_Leptoll_scaff_4_GENE_2_SigP	28	0	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
1	5way_CG_Leptoll_scaff_318_GENE_7_SigP	3	1	0	Hypothetical protein 174292:174618 reverse # pl:9.94 MW:11405

1	UBA_Leptoll_Scaffold_8049_GENE_177_SigP	3	1	0	Hypothetical protein 174292:174618 reverse # pl:9.94 MW:11405
1	5way_CG_Leptoll_scaff_59_GENE_16_SigP	34	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
1	UBA_Leptoll_Scaffold_8027_GENE_57_SigP	53	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
1	UBA_Leptoll_Scaffold_8027_GENE_50_SigP	26	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
1	5way_CG_Leptoll_scaff_46_GENE_17_SigP	19	1	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
1	UBA_Leptoll_Scaffold_7931_GENE_112_SigP	19	1	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
1	5way_CG_Leptoll_scaff_98_GENE_12_SigP	56	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
1	UBA_Leptoll_Scaffold_8135_GENE_6_SigP	9	1	0	Hypothetical protein 4393:5034 reverse # pl:9.73 MW:24126
1	5way_CG_Leptoll_scaff_45_GENE_15_SigP	484	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
1	5way_CG_Leptoll_scaff_120_GENE_4_SigP	90	0	0	efflux protein, CzcB 1968652:1969776 reverse # pl:9.89 MW:41685
1	UBA_Leptoll_Scaffold_8062_GENE_94_SigP	5	0	0	undefined product 90930:91310 forward # pl:10.10 MW:13174
1	5way_CG_Leptoll_scaff_2_GENE_49_SigP	25	4	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
1	UBA_Leptoll_Scaffold_7931_GENE_186_SigP	25	4	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
1	UBA_Leptoll_Scaffold_8524_GENE_197_SigP	39	0	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
1	UBA_Leptoll_Scaffold_8692_GENE_49_SigP	32	0	0	FOG 51650:53845 reverse # pl:9.71 MW:84153
1	UBA_Leptoll_Scaffold_7931_GENE_87_SigP	78	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
1	5way_CG_Leptoll_scaff_66_GENE_21_SigP	78	0	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
1	UBA_Leptoll_Scaffold_8524_GENE_165_SigP	15	2	0	hypothetical protein 1603957:1604319 reverse # pl:8.80 MW:13441
1	5way_CG_Leptoll_scaff_8_GENE_58_SigP	6	0	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
1	UBA_Leptoll_Scaffold_7931_GENE_363_SigP	9	0	0	cytochrome c-551 558486:558818 reverse # pl:10.02 MW:11872
1	UBA_Leptoll_Scaffold_361_11_SigP	11	0	0	Peroxioredoxin 418582:419157 forward # pl:9.67 MW:21131
1	UBA_Leptoll_Scaffold_8692_GENE_75_SigP	43	0	0	(-) # pl:9.66 MW:26334
1	UBA_Leptoll_Scaffold_364_1_SigP	13	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
1	UBA_Leptoll_Scaffold_8049_GENE_55_SigP	11	0	0	(-) # pl:10.85 MW:12350
1	5way_CG_Leptoll_scaff_3_GENE_58_SigP	88	0	0	Hypothetical protein 42266:42961 forward # pl:7.09 MW:26271
1	UBA_Leptoll_Scaffold_7931_GENE_16_SigP	12	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
1	5way_CG_Leptoll_scaff_428_GENE_6_SigP	12	0	0	Hypothetical protein 12313:12933 reverse # pl:9.26 MW:23588
1	UBA_Leptoll_Scaffold_8241_GENE_544_SigP	9	0	0	hypothetical protein 2557294:2557914 reverse # pl:9.26 MW:23588
1	UBA_Leptoll_Scaffold_8692_GENE_45_SigP	35	0	0	Hypothetical protein 522023:522568 forward # pl:9.54 MW:20235
1	5way_CG_Leptoll_scaff_30_GENE_28_SigP	35	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
1	5way_CG_Leptoll_scaff_42_GENE_27_SigP	14	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
1	UBA_Leptoll_Scaffold_394_71_SigP	5	0	0	hypothetical protein 1233635:1234360 forward # pl:9.49 MW:27054
1	5way_CG_Leptoll_scaff_689_GENE_3_SigP	5	0	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
1	UBA_Leptoll_Scaffold_398_122_SigP	5	3	0	cytochrome c551 2741290:2741619 forward # pl:9.20 MW:11513
1	UBA_Leptoll_Scaffold_8241_GENE_610_SigP	6	0	0	(-) # pl:9.92 MW:13689
1	Unass_bact_scaff_903_GENE_5_SigP	52	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
1	5way_CG_Leptoll_scaff_81_GENE_24_SigP	44	3	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
1	UBA_Leptoll_Scaffold_8135_GENE_5_SigP	44	3	0	(-) # pl:10.05 MW:15038
1	5way_CG_Leptoll_scaff_43_GENE_22_SigP	33	0	0	(-) # pl:10.05 MW:15038
1	UBA_Leptoll_Scaffold_8241_GENE_253_SigP	17	0	0	FOG 3195:4136 forward # pl:9.10 MW:34971
1	UBA_Leptoll_Scaffold_8241_GENE_270_SigP	22	0	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
1	UBA_Leptoll_Scaffold_394_70_SigP	8	2	0	Putative secretion protein (HlyD) 238386:239528 reverse # pl:7.85 MW:42147
1	5way_CG_Leptoll_scaff_27_GENE_13_SigP	41	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
1	UBA_Leptoll_Scaffold_353_2_SigP	11	0	0	(-) # pl:10.49 MW:18094
1	Unass_bact_scaff_920_GENE_3_SigP	24	1	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
1	5way_CG_Leptoll_scaff_41_GENE_29_SigP	7	0	0	(-) # pl:9.33 MW:31803
1	5way_CG_Leptoll_scaff_86_GENE_7_SigP	24	0	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
1	UBA_Leptoll_Scaffold_394_29_SigP	25	1	0	bacterioferritin comigratory protein/peroxiredoxin 1204208:1204783 reverse # pl:9.67 MW:21373
1	5way_CG_Leptoll_scaff_25_GENE_53_SigP	6	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
1	UBA_Leptoll_Scaffold_8049_GENE_42a_SigP	7	0	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
1	5way_CG_Leptoll_scaff_630_GENE_6_SigP	65	1	0	hypothetical protein 917425:918120 forward # pl:7.75 MW:26216
1	5way_CG_Leptoll_scaff_62_GENE_7_SigP	6	1	0	Hypothetical protein 34331:34687 reverse # pl:9.86 MW:13687
1	5way_CG_Leptoll_scaff_32_GENE_24_SigP	3	1	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
1	UBA_Leptoll_Scaffold_361_10_SigP	11	0	0	hypothetical protein 1561859:1562500 reverse # pl:9.99 MW:24347
1	5way_CG_Leptoll_scaff_175_GENE_9_SigP	17	0	0	hypothetical protein 1095187:1095858 forward # pl:4.69 MW:23690
1	UBA_Leptoll_Scaffold_8241_GENE_21_SigP	38	4	0	(-) # pl:9.57 MW:54911
1	5way_CG_Leptoll_scaff_96_GENE_14_SigP	46	0	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746
1	UBA_Leptoll_Scaffold_7931_GENE_281_SigP	10	0	0	(-) # pl:6.54 MW:55063
1	5way_CG_Leptoll_scaff_46_GENE_24_SigP	2	1	0	Putative phospholipid binding protein 18471:19037 reverse # pl:9.81 MW:20481
1	UBA_Leptoll_Scaffold_7931_GENE_119a_SigP	2	1	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
1	5way_CG_Leptoll_scaff_42_GENE_34_SigP	23	0	0	Periplasmic protein involved in polysaccharide ex port 311387:312244 reverse # pl:9.91 MW:31407
1	UBA_Leptoll_Scaffold_8241_GENE_298a_SigP	29	0	0	Hypothetical protein 122985:123505 reverse # pl:11.72 MW:18723
1	5way_CG_Leptoll_scaff_14_GENE_50_SigP	17	4	0	Hypothetical protein 122985:123505 reverse # pl:11.72 MW:18723
1	UBA_Leptoll_Scaffold_7931_GENE_311_SigP	31	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
1	5way_CG_Leptoll_scaff_41_GENE_27_SigP	135	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pl:11.10 MW:25887
1	UBA_Leptoll_Scaffold_394_10_SigP	4	0	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
1	5way_CG_Leptoll_scaff_4_GENE_7_SigP	8	0	0	FOG 348657:351887 forward # pl:9.10 MW:118365
1	5way_CG_Leptoll_scaff_21_GENE_53_SigP	6	0	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
1	UBA_Leptoll_Scaffold_7931_GENE_98_SigP	11	0	0	(-) # pl:11.06 MW:18504
1	5way_CG_Leptoll_scaff_297_GENE_4_SigP	11	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
1	UBA_Leptoll_Scaffold_8241_GENE_81_SigP	109	0	0	hypothetical protein 759903:760511 reverse # pl:9.47 MW:21658
1	5way_CG_Leptoll_scaff_21_GENE_56_SigP	109	0	0	Hypothetical protein 96019:96525 forward # pl:9.43 MW:19616
1	5way_CG_Leptoll_scaff_8_GENE_20_SigP	26	0	0	hypothetical protein 2435158:2435664 reverse # pl:9.43 MW:19616
1	UBA_Leptoll_Scaffold_356_3_SigP	4	1	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
					hypothetical protein 761096:761443 forward # pl:10.42 MW:12486
					hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
					(-) # pl:6.60 MW:24706

1	UBA_Leptolli_Scaffold_8062_GENE_31_SigP	8	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
1	5way_CG_Leptolli_scaff_30_GENE_22_SigP	26	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
1	UBA_Leptolli_390_49_SigP	7	0	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
1	5way_CG_Leptolli_scaff_98_GENE_11_SigP	37	0	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
1	5way_CG_Leptolli_scaff_7_GENE_28_SigP	8	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
1	UBA_Leptolli_Scaffold_7931_GENE_368_SigP	5	0	0	Hypothetical protein 424188:424832 forward # pl:9.22 MW:23066
1	UBA_Leptolli_Scaffold_7931_GENE_191_SigP	6	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
1	UBA_Leptolli_Scaffold_8692_GENE_5_SigP	39	0	0	Hypothetical protein 4993:5544 forward # pl:10.17 MW:19972
1	UBA_Leptolli_Scaffold_8027_GENE_49_SigP	12	4	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pl:9.05 MW:50054
1	5way_CG_Leptolli_scaff_96_GENE_7_SigP	18	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
1	UBA_Leptolli_Scaffold_8241_GENE_381_SigP	8	0	0	DNA uptake lipoprotein 359495:360226 reverse # pl:9.91 MW:28875
1	5way_CG_Leptolli_scaff_186_GENE_4_SigP	12	2	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
1	UBA_Leptolli_Scaffold_7931_GENE_128_SigP	12	2	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
1	UBA_Leptolli_Scaffold_8049_GENE_47_SigP	12	0	0	Hypothetical protein 37752:38414 reverse # pl:9.93 MW:24100
1	5way_CG_Leptolli_scaff_25_GENE_47_SigP	18	0	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
1	UBA_Leptolli_Scaffold_8049_GENE_190_SigP	4	0	0	Hypothetical protein 189991:190548 reverse # pl:5.63 MW:20533
1	5way_CG_Leptolli_scaff_511_GENE_5_SigP	4	0	0	hypothetical protein 2634648:2635205 forward # pl:5.63 MW:20533
1	5way_CG_Leptolli_scaff_4_GENE_18_SigP	2	1	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
1	UBA_Leptolli_Scaffold_8241_GENE_236_SigP	2	1	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
1	5way_CG_Leptolli_scaff_32_GENE_53_SigP	11	0	0	efflux transporter 1124403:1125452 forward # pl:10.38 MW:37076
1	UBA_Leptolli_351_1_SigP	3	0	0	(-) # pl:9.75 MW:19719
1	UBA_Leptolli_336_16_SigP	3	0	0	(-) # pl:9.75 MW:19719
1	UBA_Leptolli_Scaffold_8241_GENE_295_SigP	3	0	0	Hypothetical protein 274121:274495 forward # pl:9.10 MW:13221
1	UBA_Leptolli_Scaffold_8241_GENE_32_SigP	17	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194
1	UBA_Leptolli_Scaffold_8692_GENE_69_SigP	4	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
1	5way_CG_Leptolli_scaff_30_GENE_6_SigP	4	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
1	UBA_Leptolli_Scaffold_7931_GENE_123_SigP	6	0	0	Cytochrome c 128461:129270 forward # pl:9.68 MW:29622
1	5way_CG_Leptolli_scaff_46_GENE_28_SigP	6	0	0	cytochrome c 1396147:1396956 forward # pl:9.68 MW:29622
1	UBA_Leptolli_Scaffold_8241_GENE_524_SigP	4	0	0	Parvulin-like peptidyl-prolyl isomerase 502388:503257 reverse # pl:9.96 MW:32363
1	UBA_Leptolli_Scaffold_8027_GENE_48a_SigP	9	0	0	Hypothetical protein 47726:48559 forward # pl:11.68 MW:30762
1	UBA_Leptolli_Scaffold_8692_GENE_133_SigP	2	0	0	Hypothetical protein 127591:128046 forward # pl:9.36 MW:16779
1	5way_CG_Leptolli_scaff_271_GENE_7_SigP	2	0	0	hypothetical protein 2363290:2363745 forward # pl:9.40 MW:16789
1	UBA_Leptolli_Scaffold_8062_GENE_328_SigP	5	0	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
1	UBA_Leptolli_377_5_SigP	3	0	0	(-) # pl:11.23 MW:25053
1	5way_CG_Leptolli_scaff_3_GENE_6_SigP	20	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
1	UBA_Leptolli_Scaffold_8135_GENE_45_SigP	7	0	0	Predicted secreted hydrolase 44062:45204 forward # pl:9.88 MW:42796
1	UBA_Leptolli_399_123_SigP	4	0	0	(-) # pl:9.93 MW:19208
1	UBA_Leptolli_Scaffold_8135_GENE_81_SigP	2	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
1	UBA_Leptolli_Scaffold_8049_GENE_3_SigP	2	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit t 662:1192 forward # pl:8.85 MW:19724
1	5way_CG_Leptolli_scaff_25_GENE_2_SigP	2	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
1	5way_CG_Leptolli_scaff_120_GENE_14_SigP	2	0	0	cytochrome c oxidase
1	UBA_Leptolli_Scaffold_8524_GENE_127_SigP	17	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pl:9.38 MW:87643, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
1	5way_CG_Leptolli_scaff_6_GENE_20_SigP	17	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
1	5way_CG_Leptolli_scaff_3_GENE_90_SigP	6	0	0	competence protein ComL 223253:223984 reverse # pl:9.91 MW:28824
1	UBA_Leptolli_370_17_SigP	2	1	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:10.30 MW:28861
1	5way_CG_Leptolli_scaff_22_GENE_33_SigP	16	0	0	cellulose synthase. subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
1	5way_CG_Leptolli_scaff_22_GENE_30_SigP	8	0	0	cellulase 797157:798257 reverse # pl:9.98 MW:41939
1	UBA_Leptolli_396_5_SigP	6	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
1	UBA_Leptolli_398_1_SigP	2	0	0	(-) # pl:5.16 MW:9995
1	5way_CG_Leptolli_scaff_42_GENE_24_SigP	12	0	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
1	5way_CG_Leptolli_scaff_287_GENE_4_SigP	14	6	0	hypothetical protein 2399359:2399979 reverse # pl:8.69 MW:22528
1	5way_CG_Leptolli_scaff_98_GENE_10_SigP	6	0	0	hypothetical protein 1933888:1934532 forward # pl:9.80 MW:24317
1	UBA_Leptolli_391_4_SigP	13	0	0	(-) # pl:10.15 MW:22759
1	UBA_Leptolli_Scaffold_8524_GENE_101_SigP	5	1	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
1	UBA_Leptolli_373_5_SigP	8	0	0	(-) # pl:9.91 MW:21663
1	5way_CG_Leptolli_scaff_22_GENE_28_SigP	2	0	0	hypothetical protein 794184:794561 reverse # pl:10.83 MW:14375
1	UBA_Leptolli_395_59_SigP	10	0	0	(-) # pl:9.43 MW:19080
1	UBA_Leptolli_397_15_SigP	3	0	0	(-) # pl:9.26 MW:29303
1	5way_CG_Leptolli_scaff_22_GENE_18_SigP	8	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
1	5way_CG_Leptolli_scaff_473_GENE_6_SigP	4	0	0	hypothetical protein 2604173:2604670 reverse # pl:10.24 MW:18719
1	5way_CG_Leptolli_scaff_96_GENE_5_SigP	11	0	0	hypothetical protein 1906272:1907108 forward # pl:11.31 MW:30636
1	UBA_Leptolli_Scaffold_7931_GENE_133_SigP	4	0	0	Hypothetical protein 138630:139502 forward # pl:9.94 MW:31918
1	5way_CG_Leptolli_scaff_186_GENE_8_SigP	4	0	0	hypothetical protein 2199191:2200063 forward # pl:9.94 MW:31918
1	5way_CG_Leptolli_scaff_8_GENE_36_SigP	7	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
1	5way_CG_Leptolli_scaff_2_GENE_54_SigP	2	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
1	5way_CG_Leptolli_scaff_25_GENE_46_SigP	8	0	0	hypothetical protein 912913:913575 reverse # pl:10.04 MW:23895
1	5way_CG_Leptolli_scaff_25_GENE_41_SigP	4	0	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
1	UBA_Leptolli_399_60_SigP	7	1	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
1	UBA_Leptolli_Scaffold_8524_GENE_248_SigP	9	0	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
1	UBA_Leptolli_329_1_SigP	3	1	0	(R - Phospholipid-binding protein) # pl:9.92 MW:17607
1	5way_CG_Leptolli_scaff_183_GENE_6_SigP	5	0	0	hypothetical protein 2174071:2174934 forward # pl:9.26 MW:31876
1	UBA_Leptolli_Scaffold_8241_GENE_622_SigP	3	0	0	undefined product 605569:606864 forward # pl:9.70 MW:46793
1	UBA_Leptolli_Scaffold_7931_GENE_181_SigP	6	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pl:10.33 MW:77941
1	5way_CG_Leptolli_scaff_68_GENE_16_SigP	10	0	0	hypothetical protein 1654556:1655425 forward # pl:9.89 MW:31842
1	5way_CG_Leptolli_scaff_32_GENE_52_SigP	5	2	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
1	UBA_Leptolli_Scaffold_8062_GENE_268_SigP	2	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
1	UBA_Leptolli_395_61_SigP	2	0	0	(-) # pl:9.73 MW:17490

1	Sway_CG_Leptoll_scaff_265_GENE_14_SigP	2	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
1	UBA_Leptoll_Scaffold_7931_GENE_1_SigP	9	0	0	Membrane proteins related to metalloendopeptidase s 348:1544 reverse # pl:10.10 MW:46222
1	Sway_CG_Leptoll_scaff_274_GENE_10_SigP	9	0	0	hypothetical protein 2375353:2376549 forward # pl:10.10 MW:46222
1	UBA_Leptoll_Scaffold_8049_GENE_42_SigP	4	0	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108
1	Sway_CG_Leptoll_scaff_167_GENE_7_SigP	18	0	0	hypothetical protein 2094828:2096972 reverse # pl:8.62 MW:78226
1	UBA_Leptoll_Scaffold_8027_GENE_55_SigP	4	0	0	FOG 55616:56380 forward # pl:9.75 MW:29641
1	Sway_CG_Leptoll_scaff_96_GENE_12_SigP	4	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
1	UBA_Leptoll_Scaffold_7931_GENE_122_SigP	7	0	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
1	Sway_CG_Leptoll_scaff_46_GENE_27_SigP	7	0	0	Cytochrome c 1395273:1396082 forward # pl:9.97 MW:29736
1	UBA_Leptoll_Scaffold_8062_GENE_38_SigP	8	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
1	Sway_CG_Leptoll_scaff_96_GENE_6_SigP	9	4	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
1	Sway_CG_Leptoll_scaff_175_GENE_13_SigP	4	0	0	hypothetical protein 2150236:2151432 forward # pl:8.93 MW:43119
1	UBA_Leptoll_Scaffold_8241_GENE_211_SigP	3	0	0	Hypothetical protein 198087:198596 reverse # pl:10.75 MW:19344
1	Sway_CG_Leptoll_scaff_4_GENE_43_SigP	3	0	0	hypothetical protein 282883:283392 forward # pl:10.61 MW:19340
1	UBA_Leptoll_Scaffold_7931_GENE_372_SigP	2	0	0	Hypothetical protein 426824:427432 forward # pl:10.16 MW:21478
1	UBA_Leptoll_Scaffold_8241_GENE_472_SigP	3	0	0	Thiol-disulfide isomerase and thioredoxins 451265:452311 forward # pl:7.73 MW:38930
1	UBA_Leptoll_Scaffold_8241_GENE_539_SigP	3	0	0	Pyruvate 517295:517993 forward # pl:7.77 MW:25534
1	Sway_CG_Leptoll_scaff_48_GENE_13_SigP	3	0	0	pyruvate ferredoxin oxidoreductase 1410418:1411116 reverse # pl:7.77 MW:25520
1	UBA_Leptoll_Scaffold_7931_GENE_347_SigP	3	0	0	Hypothetical protein 402145:403218 reverse # pl:8.65 MW:39325
1	UBA_Leptoll_307_1_SigP	12	1	0	(-) # pl:7.72 MW:17434
1	UBA_Leptoll_390_44_SigP	12	1	0	(-) # pl:7.72 MW:17434
1	UBA_Leptoll_Scaffold_8692_GENE_129_SigP	16	0	0	Uncharacterized NAD(FAD)-dependent dehydrogenases 123535:124674 reverse # pl:7.78 MW:42008
1	UBA_Leptoll_Scaffold_8692_GENE_61_SigP	3	0	0	Outer membrane protein 61581:63005 reverse # pl:8.50 MW:52169
1	UBA_Leptoll_Scaffold_8692_GENE_147_SigP	8	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
1	Sway_CG_Leptoll_scaff_53_GENE_11_SigP	8	0	0	hypothetical protein 1475234:1476562 reverse # pl:9.99 MW:49997
1	UBA_Leptoll_Scaffold_8241_GENE_469_SigP	36	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
1	UBA_Leptoll_Scaffold_7931_GENE_76_SigP	3	0	0	undefined product 74592:75590 forward # pl:4.92 MW:36775
1	Sway_CG_Leptoll_scaff_66_GENE_9_SigP	3	0	0	hypothetical protein 1593933:1594931 forward # pl:5.00 MW:36982
1	UBA_Leptoll_384_12_SigP	4	0	0	(-) # pl:10.43 MW:24691
1	UBA_Leptoll_374_3_SigP	3	0	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
1	UBA_Leptoll_Scaffold_8049_GENE_109_SigP	2	0	0	Hypothetical protein 103611:104141 forward # pl:9.51 MW:19740
1	Sway_CG_Leptoll_scaff_23_GENE_41_SigP	2	0	0	hypothetical protein 865371:865901 forward # pl:9.51 MW:19771
1	UBA_Leptoll_394_52_SigP	4	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554
1	Sway_CG_Leptoll_scaff_630_GENE_3_SigP	3	0	0	hypothetical protein 2708442:2709209 forward # pl:9.62 MW:28389
1	Sway_CG_Leptoll_scaff_13_GENE_45_SigP	2	0	0	hypothetical protein 621213:622508 reverse # pl:9.49 MW:46508
1	UBA_Leptoll_Scaffold_8241_GENE_690_SigP	5	0	0	Hypothetical protein 681251:682891 forward # pl:4.70 MW:59054
1	UBA_Leptoll_Scaffold_8692_GENE_161_SigP	6	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
1	UBA_Leptoll_Scaffold_8241_GENE_79_SigP	3	0	0	Hypothetical protein 78556:79164 reverse # pl:9.58 MW:21627
1	UBA_Leptoll_388_39_SigP	2	0	0	(O - Thiol-disulfide isomerase and thioredoxins) # pl:6.21 MW:38783
1	Sway_CG_Leptoll_scaff_141_GENE_2_SigP	7	0	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
1	UBA_Leptoll_Scaffold_8241_GENE_149_SigP	21	1	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
1	UBA_Leptoll_Scaffold_8241_GENE_248_SigP	3	0	0	Hypothetical protein 232386:233240 reverse # pl:9.32 MW:32282
1	Sway_CG_Leptoll_scaff_30_GENE_12_SigP	2	0	0	outer membrane efflux protein 1042734:1044158 forward # pl:6.61 MW:52107
1	Sway_CG_Leptoll_scaff_6_GENE_46_SigP	3	0	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
1	UBA_Leptoll_Scaffold_8241_GENE_643_SigP	2	0	0	Flagellar basal-body P-ring protein 626248:627312 forward # pl:9.81 MW:37404
1	Sway_CG_Leptoll_scaff_13_GENE_22_SigP	2	0	0	flagellar P-ring protein 600771:601835 reverse # pl:9.86 MW:37671
1	UBA_Leptoll_Scaffold_8524_GENE_225_SigP	8	0	0	Hypothetical protein 208344:209684 forward # pl:7.25 MW:49701
1	Sway_CG_Leptoll_scaff_27_GENE_41_SigP	3	0	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
1	UBA_Leptoll_Scaffold_8241_GENE_55_SigP	3	0	0	Conserved hypothetical protein 53795:55249 reverse # pl:8.85 MW:54208
1	Sway_CG_Leptoll_scaff_21_GENE_25_SigP	3	0	0	hypothetical protein 735291:736745 reverse # pl:7.80 MW:53899
1	gpl_scaff_388_GENE_4_SigP	3	0	0	- # Function: Hypothetical protein # pl:5.17 MW:43868
1	UBA_Leptoll_Scaffold_8241_GENE_85_SigP	3	0	0	Putative secretion protein 84770:85819 reverse # pl:9.82 MW:37009
1	Sway_CG_Leptoll_scaff_271_GENE_3_SigP	2	0	0	flavoprotein oxidoreductase 2359237:2360376 reverse # pl:7.21 MW:42034
1	Sway_CG_Leptoll_scaff_167_GENE_10_SigP	10	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
1	Sway_CG_Leptoll_scaff_62_GENE_5_SigP	2	0	0	hypothetical protein 1560383:1561324 forward # pl:8.96 MW:35059
1	UBA_Leptoll_Scaffold_8241_GENE_642_SigP	2	0	0	Hypothetical protein 624997:625638 forward # pl:9.97 MW:23181
1	UBA_Leptoll_Scaffold_8241_GENE_256_SigP	2	0	0	Hypothetical protein 241268:241888 reverse # pl:10.64 MW:22967
1	Sway_CG_Leptoll_scaff_59_GENE_28_SigP	2	0	0	hypothetical protein 1554663:1555283 forward # pl:10.76 MW:22906
1	UBA_Leptoll_Scaffold_8692_GENE_152a_SigP	2	0	0	Hypothetical protein 144506:146251 reverse # pl:10.50 MW:66356
1	UBA_Leptoll_Scaffold_8241_GENE_570_SigP	2	0	0	Outer membrane protein 555547:557019 forward # pl:9.35 MW:54952
1	Sway_CG_Leptoll_scaff_43_GENE_19_SigP	2	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
1	Sway_CG_Leptoll_scaff_4_GENE_32_SigP	2	0	0	hypothetical protein 271575:273734 forward # pl:10.25 MW:82156
1	UBA_Leptoll_394_18_SigP	6	0	0	(C - Cytochrome c) # pl:9.67 MW:28371
1	Sway_CG_Leptoll_scaff_94_GENE_5_SigP	6	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
1	Sway_CG_Leptoll_scaff_53_GENE_26_SigP	3	0	0	hypothetical protein 1495267:1496724 reverse # pl:10.11 MW:49724
1	UBA_Leptoll_Scaffold_8049_GENE_61_SigP	2	0	0	Carbamoylphosphate synthase large subunit (split gene in MJ) 47956:51198 forward # pl:5.25 MW:117734
1	Sway_CG_Leptoll_scaff_25_GENE_59_SigP	2	0	0	carbamoyl phosphate synthetase large subunit 923120:926362 forward # pl:5.23 MW:118004
1	Sway_CG_Leptoll_scaff_22_GENE_31_SigP	2	0	0	cyclic di-GMP binding protein 798254:800467 reverse # pl:10.53 MW:82852
1	Unass_arch_scaff_871_GENE_1_SigP	2	0	0	# Gene_name: CarB # Function: Carbamoylphosphate synthase large subunit (split gene in MJ) # e-169 # pl:5.08 MW:52350
1	UBA_Leptoll_Scaffold_7931_GENE_115_SigP	2	0	0	undefined product 117485:118492 forward # pl:9.77 MW:38243
1	Sway_CG_Leptoll_scaff_46_GENE_20_SigP	2	0	0	cellulose synthase, subunit C 1385171:1386178 forward # pl:9.77 MW:38243
1	fer2_scaff_19_GENE_17_SigP	12	0	0	- # Function: Hypothetical protein # pl:8.42 MW:41218
1	UBA_Leptoll_387_17_SigP	3	0	0	(S - Uncharacterized protein conserved in bacteria) # pl:9.48 MW:144374

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB End Sample Set - Run 2

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called	Function
2	5way_CG_LeptolI_scaff_46_GENE_4_SigP	49	6	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
2	UBA_LeptolI_Scaffold_7931_GENE_101_SigP	49	6	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
2	UBA_LeptolI_Scaffold_8049_GENE_366_SigP	1012	3	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
2	UBA_LeptolI_Scaffold_8135_GENE_9_SigP	506	16	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
2	UBA_LeptolI_Scaffold_8524_GENE_128_SigP	538	32	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
2	5way_CG_LeptolI_scaff_66_GENE_6_SigP	36	6	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
2	UBA_LeptolI_Scaffold_7931_GENE_73_SigP	36	6	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
2	5way_CG_LeptolI_scaff_178_GENE_9_SigP	29	15	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
2	UBA_LeptolI_Scaffold_8049_GENE_321_SigP	29	15	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
2	Unass_bact_scaff_1131_GENE_3_SigP	129	1	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
2	UBA_LeptolI_Scaffold_8049_GENE_83_SigP	208	26	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
2	UBA_LeptolI_Scaffold_7931_GENE_352_SigP	48	2	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
2	UBA_LeptolI_388_1_SigP	61	1	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
2	5way_CG_LeptolI_scaff_3_GENE_5_SigP	242	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
2	5way_CG_LeptolI_scaff_374_GENE_7_SigP	284	117	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
2	UBA_LeptolI_Scaffold_8241_GENE_153_SigP	284	117	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
2	UBA_LeptolI_Scaffold_8049_GENE_42a_SigP	14	3	0	Hypothetical protein 34331:34687 reverse # pl:9.86 MW:13687
2	UBA_LeptolI_Scaffold_8241_GENE_297_SigP	505	9	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
2	5way_CG_LeptolI_scaff_6_GENE_19_SigP	454	32	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
2	UBA_LeptolI_Scaffold_8049_GENE_48_SigP	57	4	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
2	5way_CG_LeptolI_scaff_62_GENE_1_SigP	82	6	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
2	5way_CG_LeptolI_scaff_3_GENE_4_SigP	379	5	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
2	UBA_LeptolI_Scaffold_8135_GENE_71_SigP	170	4	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
2	UBA_LeptolI_Scaffold_8241_GENE_573_SigP	74	1	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
2	UBA_LeptolI_Scaffold_8524_GENE_201_SigP	74	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
2	5way_CG_LeptolI_scaff_4_GENE_16_SigP	364	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
2	UBA_LeptolI_Scaffold_8062_GENE_151_SigP	54	6	0	Hypothetical protein 158736:159437 reverse # pl:10.88 MW:26479
2	5way_CG_LeptolI_scaff_46_GENE_16_SigP	99	1	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
2	UBA_LeptolI_Scaffold_7931_GENE_111_SigP	99	1	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
2	5way_CG_LeptolI_scaff_62_GENE_10_SigP	458	16	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
2	UBA_LeptolI_Scaffold_8241_GENE_522_SigP	122	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
2	UBA_LeptolI_Scaffold_7931_GENE_365_SigP	161	6	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
2	UBA_LeptolI_Scaffold_8062_GENE_53_SigP	107	6	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
2	5way_CG_LeptolI_scaff_32_GENE_19_SigP	473	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114
2	UBA_LeptolI_Scaffold_8241_GENE_348_SigP	461	16	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
2	5way_CG_LeptolI_scaff_48_GENE_32_SigP	106	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
2	UBA_LeptolI_Scaffold_8524_GENE_197_SigP	29	1	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
2	UBA_LeptolI_Scaffold_8524_GENE_235_SigP	55	0	0	Cytochrome c551/c552 219925:220257 reverse # pl:9.89 MW:11806
2	UBA_LeptolI_Scaffold_8241_GENE_121_SigP	405	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
2	5way_CG_LeptolI_scaff_32_GENE_25_SigP	310	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
2	UBA_LeptolI_Scaffold_8241_GENE_114_SigP	306	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
2	UBA_LeptolI_398_2_SigP	36	1	0	(-) # pl:10.81 MW:15675
2	UBA_LeptolI_Scaffold_8241_GENE_349_SigP	430	0	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
2	5way_CG_LeptolI_scaff_66_GENE_21_SigP	89	2	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
2	UBA_LeptolI_Scaffold_7931_GENE_87_SigP	89	2	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
2	UBA_LeptolI_Scaffold_8241_GENE_565_SigP	144	0	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
2	UBA_LeptolI_Scaffold_8049_GENE_192_SigP	301	1	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
2	UBA_LeptolI_Scaffold_8241_GENE_56_SigP	36	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
2	5way_CG_LeptolI_scaff_21_GENE_26_SigP	36	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
2	5way_CG_LeptolI_scaff_23_GENE_15_SigP	157	26	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
2	5way_CG_LeptolI_scaff_25_GENE_41_SigP	9	3	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
2	UBA_LeptolI_Scaffold_7931_GENE_97_SigP	48	0	0	Hypothetical protein 95055:95750 reverse # pl:8.82 MW:26173
2	5way_CG_LeptolI_scaff_297_GENE_5_SigP	48	0	0	hypothetical protein 2435933:2436628 forward # pl:8.82 MW:26173
2	5way_CG_LeptolI_scaff_80_GENE_22_SigP	147	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
2	5way_CG_LeptolI_scaff_14_GENE_26_SigP	45	6	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
2	UBA_LeptolI_Scaffold_8062_GENE_34_SigP	89	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
2	UBA_LeptolI_Scaffold_8062_GENE_32_SigP	104	1	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
2	UBA_LeptolI_Scaffold_7931_GENE_338_SigP	88	0	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
2	5way_CG_LeptolI_scaff_511_GENE_2_SigP	254	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
2	5way_CG_LeptolI_scaff_46_GENE_17_SigP	34	1	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
2	UBA_LeptolI_Scaffold_7931_GENE_112_SigP	34	1	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
2	UBA_LeptolI_Scaffold_8241_GENE_392_SigP	24	3	0	Hypothetical protein 371271:371777 forward # pl:11.11 MW:18296
2	UBA_LeptolI_Scaffold_8524_GENE_249_SigP	154	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
2	UBA_LeptolI_Scaffold_8062_GENE_173_SigP	46	1	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448

2	5way_CG_Leptoll_scaff_141_GENE_3_SigP	148	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
2	UBA_LeptollI_364_1_SigP	30	0	0	(-) # pl:10.85 MW:12350
2	UBA_LeptollI_Scaffold_8049_GENE_209_SigP	29	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
2	5way_CG_Leptoll_scaff_42_GENE_33_SigP	226	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
2	UBA_LeptollI_Scaffold_8241_GENE_298_SigP	240	0	0	Outer membrane protein and related peptidoglycan-associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
2	UBA_LeptollI_Scaffold_8241_GENE_238_SigP	245	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
2	UBA_LeptollI_Scaffold_8524_GENE_216_SigP	54	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
2	UBA_LeptollI_Scaffold_8027_GENE_57_SigP	42	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
2	UBA_LeptollI_Scaffold_8062_GENE_236_SigP	120	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
2	UBA_LeptollI_395_29_SigP	120	0	0	(-) # pl:9.79 MW:70443
2	5way_CG_Leptoll_scaff_43_GENE_14_SigP	103	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
2	UBA_LeptollI_Scaffold_8241_GENE_693_SigP	405	36	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
2	5way_CG_Leptoll_scaff_8_GENE_23_SigP	47	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
2	5way_CG_Leptoll_scaff_2_GENE_49_SigP	46	4	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
2	UBA_LeptollI_Scaffold_7931_GENE_186_SigP	46	4	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
2	UBA_LeptollI_Scaffold_7931_GENE_16_SigP	11	0	0	Hypothetical protein 12313:12933 reverse # pl:9.26 MW:23588
2	5way_CG_Leptoll_scaff_428_GENE_6_SigP	11	0	0	hypothetical protein 2557294:2557914 reverse # pl:9.26 MW:23588
2	5way_CG_Leptoll_scaff_59_GENE_16_SigP	43	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
2	UBA_LeptollI_Scaffold_8524_GENE_165_SigP	19	1	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
2	5way_CG_Leptoll_scaff_43_GENE_22_SigP	59	0	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
2	5way_CG_Leptoll_scaff_333_GENE_9_SigP	10	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
2	UBA_LeptollI_399_92_SigP	39	9	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
2	5way_CG_Leptoll_scaff_8_GENE_58_SigP	8	0	0	cytochrome c-551 558486:558818 reverse # pl:10.02 MW:11872
2	UBA_LeptollI_Scaffold_8692_GENE_45_SigP	34	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
2	5way_CG_Leptoll_scaff_98_GENE_12_SigP	66	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
2	5way_CG_Leptoll_scaff_45_GENE_15_SigP	398	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
2	UBA_LeptollI_Scaffold_8241_GENE_298a_SigP	48	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pl:11.10 MW:25887
2	UBA_LeptollI_Scaffold_8027_GENE_50_SigP	30	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
2	5way_CG_Leptoll_scaff_30_GENE_28_SigP	32	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
2	UBA_LeptollI_Scaffold_8524_GENE_269_SigP	53	0	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589
2	5way_CG_Leptoll_scaff_27_GENE_13_SigP	84	0	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
2	5way_CG_Leptoll_scaff_14_GENE_50_SigP	26	1	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
2	5way_CG_Leptoll_scaff_81_GENE_24_SigP	55	6	0	(-) # pl:10.05 MW:15038
2	UBA_LeptollI_314_4_SigP	55	6	0	(-) # pl:10.05 MW:15038
2	5way_CG_Leptoll_scaff_42_GENE_34_SigP	26	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
2	5way_CG_Leptoll_scaff_120_GENE_4_SigP	104	0	0	efflux protein, CzcB 1968652:1969776 reverse # pl:9.89 MW:41685
2	UBA_LeptollI_394_29_SigP	39	2	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
2	5way_CG_Leptoll_scaff_3_GENE_58_SigP	243	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
2	UBA_LeptollI_Scaffold_8692_GENE_49_SigP	34	0	0	FOG 51650:53845 reverse # pl:9.71 MW:84153
2	Unass_bact_scaff_920_GENE_3_SigP	36	2	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
2	5way_CG_Leptoll_scaff_8_GENE_20_SigP	24	1	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
2	5way_CG_Leptoll_scaff_96_GENE_14_SigP	39	0	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
2	UBA_LeptollI_Scaffold_7931_GENE_363_SigP	9	0	0	Peroxioredoxin 418582:419157 forward # pl:9.67 MW:21131
2	UBA_LeptollI_328_11_SigP	20	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
2	UBA_LeptollI_Scaffold_8692_GENE_75_SigP	41	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
2	5way_CG_Leptoll_scaff_96_GENE_7_SigP	25	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
2	UBA_LeptollI_394_36_SigP	11	0	0	(-) # pl:6.54 MW:55063
2	Unass_bact_scaff_903_GENE_5_SigP	30	0	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
2	UBA_LeptollI_Scaffold_8049_GENE_55_SigP	9	0	0	Hypothetical protein 42266:42961 forward # pl:7.09 MW:26271
2	UBA_LeptollI_Scaffold_8524_GENE_248_SigP	13	0	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
2	5way_CG_Leptoll_scaff_98_GENE_11_SigP	64	1	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
2	5way_CG_Leptoll_scaff_4_GENE_2_SigP	28	0	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
2	5way_CG_Leptoll_scaff_186_GENE_4_SigP	15	2	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
2	UBA_LeptollI_Scaffold_7931_GENE_128_SigP	15	2	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
2	UBA_LeptollI_Scaffold_8241_GENE_270_SigP	27	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
2	UBA_LeptollI_Scaffold_8062_GENE_31_SigP	14	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
2	5way_CG_Leptoll_scaff_175_GENE_9_SigP	32	0	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746
2	UBA_LeptollI_Scaffold_7931_GENE_311_SigP	34	0	0	FOG 348657:351887 forward # pl:9.10 MW:118365
2	5way_CG_Leptoll_scaff_41_GENE_27_SigP	104	0	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
2	5way_CG_Leptoll_scaff_8_GENE_36_SigP	12	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
2	5way_CG_Leptoll_scaff_630_GENE_6_SigP	53	1	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
2	UBA_LeptollI_Scaffold_8692_GENE_5_SigP	45	0	0	Hypothetical protein 4993:5544 forward # pl:10.17 MW:19972
2	5way_CG_Leptoll_scaff_41_GENE_29_SigP	6	0	0	bacterioferritin comigratory protein/peroxiredoxin 1204208:1204783 reverse # pl:9.67 MW:21373
2	UBA_LeptollI_Scaffold_8241_GENE_21_SigP	39	7	0	Putative phospholipid binding protein 18471:19037 reverse # pl:9.81 MW:20481
2	5way_CG_Leptoll_scaff_86_GENE_7_SigP	22	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
2	5way_CG_Leptoll_scaff_25_GENE_53_SigP	4	0	0	hypothetical protein 917425:918120 forward # pl:7.75 MW:26216
2	UBA_LeptollI_353_2_SigP	12	0	0	(-) # pl:9.33 MW:31803
2	UBA_LeptollI_394_70_SigP	13	0	0	(-) # pl:10.49 MW:18094
2	UBA_LeptollI_Scaffold_8241_GENE_32_SigP	20	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194

2	UBA_Leptoll_Scaffold_7931_GENE_119a_SigP	6	0	0	Hypothetical protein 122985:123505 reverse # pl:11.72 MW:18723
2	5way_CG_Leptoll_scaff_46_GENE_24_SigP	6	0	0	hypothetical protein 1390670:1391191 reverse # pl:11.72 MW:18723
2	UBA_Leptoll_Scaffold_7931_GENE_98_SigP	9	0	0	Hypothetical protein 96019:96525 forward # pl:9.43 MW:19616
2	5way_CG_Leptoll_scaff_297_GENE_4_SigP	9	0	0	hypothetical protein 2435158:2435664 reverse # pl:9.43 MW:19616
2	5way_CG_Leptoll_scaff_42_GENE_27_SigP	18	0	0	hypothetical protein 1233635:1234360 forward # pl:9.49 MW:27054
2	5way_CG_Leptoll_scaff_68_GENE_16_SigP	13	0	0	hypothetical protein 1654556:1655425 forward # pl:9.89 MW:31842
2	UBA_Leptoll_Scaffold_8241_GENE_81_SigP	211	0	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
2	5way_CG_Leptoll_scaff_21_GENE_56_SigP	211	0	0	hypothetical protein 761096:761443 forward # pl:10.42 MW:12486
2	UBA_Leptoll_Scaffold_7931_GENE_133_SigP	11	0	0	Hypothetical protein 138630:139502 forward # pl:9.94 MW:31918
2	5way_CG_Leptoll_scaff_186_GENE_8_SigP	11	0	0	hypothetical protein 2199191:2200063 forward # pl:9.94 MW:31918
2	5way_CG_Leptoll_scaff_3_GENE_6_SigP	23	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
2	5way_CG_Leptoll_scaff_25_GENE_47_SigP	18	0	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
2	5way_CG_Leptoll_scaff_30_GENE_22_SigP	20	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
2	UBA_Leptoll_Scaffold_8049_GENE_47_SigP	12	0	0	Hypothetical protein 37752:38414 reverse # pl:9.93 MW:24100
2	5way_CG_Leptoll_scaff_287_GENE_4_SigP	13	2	0	hypothetical protein 2399359:2399979 reverse # pl:8.69 MW:22528
2	UBA_Leptoll_Scaffold_8135_GENE_5_SigP	6	0	0	FOG 3195:4136 forward # pl:9.10 MW:34971
2	UBA_LeptollIII_373_5_SigP	10	0	0	(-) # pl:9.91 MW:21663
2	5way_CG_Leptoll_scaff_21_GENE_53_SigP	7	0	0	hypothetical protein 759903:760511 reverse # pl:9.47 MW:21658
2	5way_CG_Leptoll_scaff_21_GENE_20_SigP	2	0	0	hypothetical protein 728920:729237 forward # pl:9.18 MW:11040
2	UBA_Leptoll_Scaffold_7931_GENE_281_SigP	13	0	0	Periplasmic protein involved in polysaccharide ex port 311387:312244 reverse # pl:9.91 MW:31407
2	UBA_Leptoll_Scaffold_8241_GENE_253_SigP	19	0	0	Putative secretion protein (HlyD) 238386:239528 reverse # pl:7.85 MW:42147
2	UBA_Leptoll_Scaffold_8062_GENE_328_SigP	20	0	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
2	UBA_LeptollIII_361_10_SigP	12	0	0	(-) # pl:9.57 MW:54911
2	UBA_Leptoll_Scaffold_8027_GENE_49_SigP	9	0	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pl:9.05 MW:50054
2	5way_CG_Leptoll_scaff_22_GENE_18_SigP	7	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
2	UBA_Leptoll_Scaffold_7931_GENE_123_SigP	8	0	0	Cytochrome c 128461:129270 forward # pl:9.68 MW:29622
2	5way_CG_Leptoll_scaff_46_GENE_28_SigP	8	0	0	cytochrome c 1396147:1396956 forward # pl:9.68 MW:29622
2	UBA_LeptollIII_356_3_SigP	4	2	0	(-) # pl:6.60 MW:24706
2	UBA_Leptoll_Scaffold_8524_GENE_127_SigP	17	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pl:9.38 MW:87643
2	5way_CG_Leptoll_scaff_6_GENE_20_SigP	17	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
2	UBA_Leptoll_Scaffold_8241_GENE_256_SigP	7	0	0	Hypothetical protein 241268:241888 reverse # pl:10.64 MW:22967
2	5way_CG_Leptoll_scaff_59_GENE_28_SigP	7	0	0	hypothetical protein 1554663:1555283 forward # pl:10.76 MW:22906
2	UBA_Leptoll_Scaffold_8062_GENE_94_SigP	2	0	0	undefined product 90930:91310 forward # pl:10.10 MW:13174
2	UBA_Leptoll_Scaffold_8241_GENE_524_SigP	4	0	0	Parvulin-like peptidyl-prolyl isomerase 502388:503257 reverse # pl:9.96 MW:32363
2	5way_CG_Leptoll_scaff_4_GENE_7_SigP	6	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
2	UBA_Leptoll_Scaffold_8524_GENE_101_SigP	9	1	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
2	5way_CG_Leptoll_scaff_7_GENE_28_SigP	10	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
2	5way_CG_Leptoll_scaff_42_GENE_24_SigP	15	0	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
2	UBA_LeptollIII_307_1_SigP	13	1	0	(-) # pl:7.72 MW:17434
2	UBA_LeptollIII_390_44_SigP	13	1	0	(-) # pl:7.72 MW:17434
2	UBA_Leptoll_Scaffold_8241_GENE_295_SigP	4	0	0	Hypothetical protein 274121:274495 forward # pl:9.10 MW:13221
2	UBA_LeptollIII_394_71_SigP	6	0	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
2	5way_CG_Leptoll_scaff_689_GENE_3_SigP	6	0	0	cytochrome c551 2741290:2741619 forward # pl:9.20 MW:11513
2	UBA_Leptoll_Scaffold_8241_GENE_544_SigP	8	0	0	Hypothetical protein 522023:522568 forward # pl:9.54 MW:20235
2	UBA_Leptoll_Scaffold_7931_GENE_368_SigP	4	0	0	Hypothetical protein 424188:424832 forward # pl:9.22 MW:23066
2	5way_CG_Leptoll_scaff_167_GENE_7_SigP	22	0	0	hypothetical protein 2094828:2096972 reverse # pl:8.62 MW:78226
2	UBA_Leptoll_Scaffold_8692_GENE_129_SigP	5	0	0	Uncharacterized NAD(FAD)-dependent dehydrogenases 123535:124674 reverse # pl:7.78 MW:42008
2	5way_CG_Leptoll_scaff_271_GENE_3_SigP	5	0	0	flavoprotein oxidoreductase 2359237:2360376 reverse # pl:7.21 MW:42034
2	UBA_LeptollIII_394_18_SigP	21	1	0	(C - Cytochrome c) # pl:9.67 MW:28371
2	UBA_Leptoll_Scaffold_8692_GENE_161_SigP	18	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
2	UBA_LeptollIII_395_59_SigP	20	0	0	(-) # pl:9.43 MW:19080
2	UBA_Leptoll_Scaffold_8135_GENE_6_SigP	3	0	0	Hypothetical protein 4393:5034 reverse # pl:9.73 MW:24126
2	5way_CG_Leptoll_scaff_62_GENE_7_SigP	3	0	0	hypothetical protein 1561859:1562500 reverse # pl:9.99 MW:24347
2	5way_CG_Leptoll_scaff_96_GENE_5_SigP	7	0	0	hypothetical protein 1906272:1907108 forward # pl:11.31 MW:30636
2	UBA_LeptollIII_394_10_SigP	4	0	0	(-) # pl:11.06 MW:18504
2	UBA_LeptollIII_374_3_SigP	4	0	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
2	UBA_LeptollIII_370_17_SigP	2	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:10.30 MW:28861
2	UBA_Leptoll_Scaffold_8692_GENE_69_SigP	3	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
2	5way_CG_Leptoll_scaff_30_GENE_6_SigP	3	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
2	UBA_Leptoll_Scaffold_8135_GENE_81_SigP	3	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
2	UBA_Leptoll_Scaffold_8049_GENE_3_SigP	3	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
2	5way_CG_Leptoll_scaff_25_GENE_2_SigP	3	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
2	5way_CG_Leptoll_scaff_120_GENE_14_SigP	3	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
2	UBA_LeptollIII_351_1_SigP	3	0	0	(-) # pl:9.75 MW:19719
2	UBA_LeptollIII_336_16_SigP	3	0	0	(-) # pl:9.75 MW:19719
2	UBA_Leptoll_Scaffold_7931_GENE_347_SigP	3	0	0	Hypothetical protein 402145:403218 reverse # pl:8.65 MW:39325
2	5way_CG_Leptoll_scaff_98_GENE_10_SigP	7	0	0	hypothetical protein 1933888:1934532 forward # pl:9.80 MW:24317
2	UBA_LeptollIII_391_4_SigP	9	0	0	(-) # pl:10.15 MW:22759
2	5way_CG_Leptoll_scaff_25_GENE_46_SigP	8	0	0	hypothetical protein 912913:913575 reverse # pl:10.04 MW:23895

2	5way_CG_LeptolI_scaff_141_GENE_2_SigP	2	0	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
2	UBA_LeptolIII_361_11_SigP	9	0	0	(-) # pl:9.66 MW:26334
2	UBA_LeptolI_Scaffold_8241_GENE_472_SigP	7	0	0	Thiol-disulfide isomerase and thioredoxins 451265:452311 forward # pl:7.73 MW:38930
2	UBA_LeptolI_Scaffold_8241_GENE_381_SigP	4	0	0	DNA uptake lipoprotein 359495:360226 reverse # pl:9.91 MW:28875
2	5way_CG_LeptolI_scaff_22_GENE_33_SigP	16	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
2	UBA_LeptolI_Scaffold_7931_GENE_1_SigP	11	0	0	Membrane proteins related to metalloendopeptidase s 348:1544 reverse # pl:10.10 MW:46222
2	5way_CG_LeptolI_scaff_274_GENE_10_SigP	11	0	0	hypothetical protein 2375353:2376549 forward # pl:10.10 MW:46222
2	5way_CG_LeptolI_scaff_32_GENE_53_SigP	5	0	0	efflux transporter 1124403:1125452 forward # pl:10.38 MW:37076
2	UBA_LeptolI_Scaffold_8062_GENE_38_SigP	11	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
2	UBA_LeptolI_Scaffold_7931_GENE_191_SigP	5	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
2	5way_CG_LeptolI_scaff_473_GENE_6_SigP	3	0	0	hypothetical protein 2604173:2604670 reverse # pl:10.24 MW:18719
2	UBA_LeptolI_Scaffold_8241_GENE_469_SigP	19	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
2	UBA_LeptolIII_396_5_SigP	15	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
2	5way_CG_LeptolI_scaff_96_GENE_6_SigP	6	0	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
2	UBA_LeptolI_Scaffold_8524_GENE_98_SigP	2	0	0	undefined product 87262:87864 forward # pl:7.20 MW:22096
2	UBA_LeptolI_Scaffold_8241_GENE_690_SigP	5	0	0	Hypothetical protein 681251:682891 forward # pl:4.70 MW:59054
2	UBA_LeptolI_Scaffold_8027_GENE_48a_SigP	7	0	0	Hypothetical protein 47726:48559 forward # pl:11.68 MW:30762
2	UBA_LeptolI_Scaffold_7931_GENE_181_SigP	10	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pl:10.33 MW:77941
2	UBA_LeptolI_Scaffold_8241_GENE_610_SigP	4	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
2	UBA_LeptolI_Scaffold_7931_GENE_383_SigP	4	0	0	undefined product 441204:441656 forward # pl:7.12 MW:15956
2	5way_CG_LeptolI_scaff_41_GENE_9_SigP	4	0	0	hypothetical protein 1181714:1182166 reverse # pl:7.84 MW:15936
2	UBA_LeptolIII_390_49_SigP	4	0	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
2	UBA_LeptolIII_399_60_SigP	3	0	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
2	5way_CG_LeptolI_scaff_167_GENE_10_SigP	37	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
2	UBA_LeptolIII_394_52_SigP	3	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554
2	UBA_LeptolI_Scaffold_8135_GENE_45_SigP	4	0	0	Predicted secreted hydrolase 44062:45204 forward # pl:9.88 MW:42796
2	5way_CG_LeptolI_scaff_22_GENE_30_SigP	4	0	0	cellulase 797157:798257 reverse # pl:9.98 MW:41939
2	UBA_LeptolI_Scaffold_8049_GENE_42_SigP	3	0	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108
2	UBA_LeptolI_Scaffold_8241_GENE_642_SigP	3	0	0	Hypothetical protein 624997:625638 forward # pl:9.97 MW:23181
2	UBA_LeptolI_Scaffold_8062_GENE_268_SigP	2	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
2	UBA_LeptolIII_395_61_SigP	2	0	0	(-) # pl:9.73 MW:17490
2	5way_CG_LeptolI_scaff_265_GENE_14_SigP	2	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
2	5way_CG_LeptolI_scaff_48_GENE_30_SigP	3	0	0	peptidyl-prolyl cis-trans isomerase 1425137:1426006 forward # pl:9.84 MW:32345
2	UBA_LeptolI_Scaffold_8241_GENE_539_SigP	3	0	0	Pyruvate 517295:517993 forward # pl:7.77 MW:25534
2	5way_CG_LeptolI_scaff_48_GENE_13_SigP	3	0	0	pyruvate ferredoxin oxidoreductase 1410418:1411116 reverse # pl:7.77 MW:25520
2	UBA_LeptolI_Scaffold_8692_GENE_152a_SigP	4	0	0	Hypothetical protein 144506:146251 reverse # pl:10.50 MW:66356
2	UBA_LeptolI_Scaffold_8241_GENE_103_SigP	4	0	0	undefined product 104291:105808 reverse # pl:4.37 MW:54784
2	5way_CG_LeptolI_scaff_32_GENE_36_SigP	4	0	0	hypothetical protein 1104400:1105929 forward # pl:4.32 MW:55077
2	5way_CG_LeptolI_scaff_80_GENE_19_SigP	4	0	0	thiol-disulfide isomerase 1807699:1808745 reverse # pl:8.70 MW:38966
2	UBA_LeptolIII_384_12_SigP	5	0	0	(-) # pl:10.43 MW:24691
2	5way_CG_LeptolI_scaff_511_GENE_4_SigP	2	1	0	Hypothetical protein 190563:192041 reverse # pl:5.48 MW:54747
2	UBA_LeptolI_Scaffold_8049_GENE_191_SigP	2	1	0	Hypothetical protein 190563:192041 reverse # pl:5.48 MW:54747
2	UBA_LeptolI_Scaffold_8524_GENE_225_SigP	7	0	0	Hypothetical protein 208344:209684 forward # pl:7.25 MW:49701
2	5way_CG_LeptolI_scaff_2_GENE_44_SigP	7	0	0	soluble lytic transglycosylase 48347:50407 reverse # pl:10.33 MW:77488
2	UBA_LeptolI_Scaffold_8241_GENE_149_SigP	22	1	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
2	UBA_LeptolI_Scaffold_8241_GENE_248_SigP	3	0	0	Hypothetical protein 232386:233240 reverse # pl:9.32 MW:32282
2	5way_CG_LeptolI_scaff_6_GENE_46_SigP	4	0	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
2	UBA_LeptolI_Scaffold_8692_GENE_147_SigP	4	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
2	UBA_LeptolI_Scaffold_8241_GENE_85_SigP	2	0	0	Putative secretion protein 84770:85819 reverse # pl:9.82 MW:37009
2	5way_CG_LeptolI_scaff_21_GENE_25_SigP	2	0	0	hypothetical protein 735291:736745 reverse # pl:7.80 MW:53899
2	5way_CG_LeptolI_scaff_175_GENE_13_SigP	2	0	0	hypothetical protein 2150236:2151432 forward # pl:8.93 MW:43119
2	UBA_LeptolIII_21_2_SigP	9	0	0	(-) # pl:10.11 MW:14141
2	5way_CG_LeptolI_scaff_27_GENE_41_SigP	5	0	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
2	UBA_LeptolI_Scaffold_8027_GENE_55_SigP	3	0	0	FOG 55616:56380 forward # pl:9.75 MW:29641
2	5way_CG_LeptolI_scaff_96_GENE_12_SigP	3	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
2	5way_CG_LeptolI_scaff_94_GENE_5_SigP	23	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
2	5way_CG_LeptolI_scaff_173_GENE_9_SigP	6	0	0	hypothetical protein 2117121:2117786 forward # pl:7.18 MW:21946
2	UBA_LeptolI_Scaffold_7931_GENE_122_SigP	20	0	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
2	5way_CG_LeptolI_scaff_46_GENE_27_SigP	20	0	0	cytochrome c 1395273:1396082 forward # pl:9.97 MW:29736
2	UBA_LeptolIII_377_5_SigP	2	0	0	(-) # pl:11.23 MW:25053
2	UBA_LeptolI_Scaffold_8241_GENE_570_SigP	5	0	0	Outer membrane protein 555547:557019 forward # pl:9.35 MW:54952
2	5way_CG_LeptolI_scaff_43_GENE_19_SigP	5	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
2	5way_CG_LeptolI_scaff_32_GENE_52_SigP	5	4	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
2	5way_CG_LeptolI_scaff_53_GENE_26_SigP	11	0	0	hypothetical protein 1495267:1496724 reverse # pl:10.11 MW:49724
2	UBA_LeptolI_Scaffold_8135_GENE_78_SigP	2	0	0	Predicted UDP-glucose 6-dehydrogenase 80266:81597 reverse # pl:5.61 MW:48025
2	5way_CG_LeptolI_scaff_67_GENE_19_SigP	2	0	0	hypothetical protein 1629206:1630348 forward # pl:9.93 MW:42988
2	UBA_LeptolIII_384_28_SigP	2	0	0	(C - Malate/lactate dehydrogenases) # pl:6.34 MW:34591
2	5way_CG_LeptolI_scaff_2_GENE_54_SigP	2	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
2	5way_CG_LeptolI_scaff_53_GENE_11_SigP	3	0	0	hypothetical protein 1475234:1476562 reverse # pl:9.99 MW:49997

2	5way_CG_Leptoli_scaff_865_GENE_1_SigP	3	0	0
2	Unass_bact_scaff_1134_GENE_1_SigP	2	0	0
2	UBA_LeptolIII_391_22_SigP	2	0	0
2	UBA_Leptoli_Scaffold_7931_GENE_115_SigP	5	0	0
2	5way_CG_Leptoli_scaff_46_GENE_20_SigP	5	0	0
2	UBA_Leptoli_Scaffold_8049_GENE_61_SigP	3	0	0
2	5way_CG_Leptoli_scaff_25_GENE_59_SigP	3	0	0
2	fer2_scaff_19_GENE_17_SigP	38	0	0
2	UBA_LeptolIII_398_127_SigP	30	0	0

hypothetical protein 2820338:2820835 forward # pI:4.07 MW:17740

- # Function: Hypothetical protein # pI:9.69 MW:13731
(R - FOG: TPR repeat) # pI:8.84 MW:118396

undefined product 117485:118492 forward # pI:9.77 MW:38243

cellulose synthase, subunit C 1385171:1386178 forward # pI:9.77 MW:38243

Carbamoylphosphate synthase large subunit (split gene in MJ) 47956:51198 forward # pI:5.25 MW:117734

carbamoyl phosphate synthetase, large subunit 923120:926362 forward # pI:5.23 MW:118004

- # Function: Hypothetical protein # pI:8.42 MW:41218
(M - Outer membrane protein) # pI:9.46 MW:53453

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB End Sample Set - Run 3

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
3	5way_CG_LeptolI_scaff_46_GENE_4_SigP	52	3	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
3	UBA_LeptolI_Scaffold_7931_GENE_101_SigP	52	3	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
3	UBA_LeptolI_Scaffold_8049_GENE_366_SigP	954	6	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
3	Unass_bact_scaff_1131_GENE_3_SigP	122	2	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
3	UBA_LeptolI_Scaffold_8524_GENE_128_SigP	600	31	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
3	5way_CG_LeptolI_scaff_178_GENE_9_SigP	33	17	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
3	UBA_LeptolI_Scaffold_8049_GENE_321_SigP	33	17	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
3	UBA_LeptolI_Scaffold_8049_GENE_83_SigP	176	27	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
3	UBA_LeptolI_Scaffold_8241_GENE_297_SigP	532	10	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
3	UBA_LeptolI_Scaffold_7931_GENE_352_SigP	64	3	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
3	UBA_LeptolI_388_1_SigP	58	1	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
3	UBA_LeptolI_Scaffold_8135_GENE_9_SigP	536	24	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
3	5way_CG_LeptolI_scaff_6_GENE_19_SigP	521	31	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
3	5way_CG_LeptolI_scaff_374_GENE_7_SigP	308	103	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
3	UBA_LeptolI_Scaffold_8241_GENE_153_SigP	308	103	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
3	5way_CG_LeptolI_scaff_62_GENE_1_SigP	91	3	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
3	UBA_LeptolI_Scaffold_7931_GENE_365_SigP	213	8	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
3	5way_CG_LeptolI_scaff_4_GENE_16_SigP	387	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
3	5way_CG_LeptolI_scaff_32_GENE_19_SigP	471	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114
3	UBA_LeptolI_Scaffold_8524_GENE_201_SigP	74	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
3	UBA_LeptolI_Scaffold_8135_GENE_71_SigP	161	4	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
3	UBA_LeptolI_Scaffold_8241_GENE_121_SigP	416	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
3	UBA_LeptolI_Scaffold_8524_GENE_235_SigP	68	0	0	Cytochrome c551/c552 219925:220257 reverse # pl:9.89 MW:11806
3	UBA_LeptolI_Scaffold_8062_GENE_151_SigP	44	1	0	Hypothetical protein 158736:159437 reverse # pl:10.88 MW:26479
3	UBA_LeptolI_Scaffold_8241_GENE_348_SigP	496	15	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
3	5way_CG_LeptolI_scaff_32_GENE_25_SigP	361	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
3	UBA_LeptolI_Scaffold_8241_GENE_114_SigP	356	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
3	UBA_LeptolI_Scaffold_8524_GENE_249_SigP	162	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
3	UBA_LeptolI_Scaffold_8241_GENE_565_SigP	134	0	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
3	UBA_LeptolI_Scaffold_8049_GENE_192_SigP	280	2	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
3	UBA_LeptolI_Scaffold_8241_GENE_573_SigP	57	3	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
3	5way_CG_LeptolI_scaff_66_GENE_21_SigP	83	3	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
3	UBA_LeptolI_Scaffold_7931_GENE_87_SigP	83	3	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
3	UBA_LeptolI_Scaffold_8241_GENE_522_SigP	102	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
3	UBA_LeptolI_Scaffold_8062_GENE_53_SigP	107	3	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
3	5way_CG_LeptolI_scaff_23_GENE_15_SigP	140	27	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
3	5way_CG_LeptolI_scaff_48_GENE_32_SigP	90	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
3	UBA_LeptolI_Scaffold_8241_GENE_349_SigP	420	0	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
3	5way_CG_LeptolI_scaff_3_GENE_4_SigP	383	3	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
3	UBA_LeptolI_Scaffold_8049_GENE_48_SigP	34	4	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
3	UBA_LeptolI_Scaffold_8049_GENE_42a_SigP	10	1	0	Hypothetical protein 34331:34687 reverse # pl:9.86 MW:13687
3	UBA_LeptolI_Scaffold_8524_GENE_269_SigP	52	1	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589
3	UBA_LeptolI_Scaffold_8062_GENE_32_SigP	122	2	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
3	5way_CG_LeptolI_scaff_62_GENE_10_SigP	502	24	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
3	5way_CG_LeptolI_scaff_66_GENE_6_SigP	30	6	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
3	UBA_LeptolI_Scaffold_7931_GENE_73_SigP	30	6	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
3	UBA_LeptolI_Scaffold_8062_GENE_34_SigP	84	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
3	5way_CG_LeptolI_scaff_141_GENE_3_SigP	160	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
3	5way_CG_LeptolI_scaff_80_GENE_22_SigP	178	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
3	5way_CG_LeptolI_scaff_14_GENE_26_SigP	40	1	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
3	5way_CG_LeptolI_scaff_511_GENE_2_SigP	233	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
3	UBA_LeptolI_Scaffold_7931_GENE_111_SigP	104	0	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
3	5way_CG_LeptolI_scaff_46_GENE_16_SigP	104	0	0	cytochrome c 1378692:1379510 reverse # pl:10.25 MW:29786
3	UBA_LeptolI_Scaffold_7931_GENE_338_SigP	80	0	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
3	UBA_LeptolI_Scaffold_7931_GENE_97_SigP	48	0	0	Hypothetical protein 95055:95750 reverse # pl:8.82 MW:26173
3	5way_CG_LeptolI_scaff_297_GENE_5_SigP	48	0	0	hypothetical protein 2435933:2436628 forward # pl:8.82 MW:26173
3	5way_CG_LeptolI_scaff_42_GENE_33_SigP	221	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
3	UBA_LeptolI_Scaffold_8241_GENE_392_SigP	28	5	0	Hypothetical protein 371271:371777 forward # pl:11.11 MW:18296
3	UBA_LeptolI_Scaffold_8241_GENE_238_SigP	279	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
3	UBA_LeptolI_Scaffold_8062_GENE_173_SigP	47	1	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
3	UBA_LeptolI_Scaffold_8524_GENE_216_SigP	83	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
3	UBA_LeptolI_Scaffold_8241_GENE_693_SigP	438	37	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
3	UBA_LeptolI_Scaffold_8062_GENE_236_SigP	110	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
3	UBA_LeptolI_395_29_SigP	110	0	0	(-) # pl:9.79 MW:70443
3	UBA_LeptolI_Scaffold_8241_GENE_56_SigP	38	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249

3	5way_CG_LeptolI_scaff_21_GENE_26_SigP	38	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
3	UBA_LeptolIII_394_29_SigP	44	1	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
3	UBA_LeptolI_Scaffold_8241_GENE_298_SigP	238	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
3	5way_CG_LeptolI_scaff_3_GENE_5_SigP	238	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
3	5way_CG_LeptolI_scaff_8_GENE_23_SigP	45	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
3	UBA_LeptolI_Scaffold_8049_GENE_209_SigP	28	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
3	5way_CG_LeptolI_scaff_43_GENE_14_SigP	100	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
3	5way_CG_LeptolI_scaff_2_GENE_49_SigP	51	4	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
3	UBA_LeptolI_Scaffold_7931_GENE_186_SigP	51	4	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
3	UBA_LeptolIII_398_2_SigP	29	0	0	(-) # pl:10.81 MW:15675
3	UBA_LeptolI_Scaffold_8027_GENE_57_SigP	53	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
3	5way_CG_LeptolI_scaff_59_GENE_16_SigP	41	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
3	5way_CG_LeptolI_scaff_333_GENE_9_SigP	10	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
3	5way_CG_LeptolI_scaff_4_GENE_2_SigP	34	0	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
3	Unass_bact_scaff_920_GENE_3_SigP	42	1	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
3	UBA_LeptolIII_399_92_SigP	33	9	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
3	UBA_LeptolI_Scaffold_8692_GENE_45_SigP	31	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
3	5way_CG_LeptolI_scaff_98_GENE_12_SigP	61	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
3	5way_CG_LeptolI_scaff_25_GENE_41_SigP	5	1	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
3	UBA_LeptolI_Scaffold_8524_GENE_197_SigP	26	0	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
3	5way_CG_LeptolI_scaff_27_GENE_13_SigP	63	0	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
3	5way_CG_LeptolI_scaff_120_GENE_4_SigP	102	0	0	efflux protein, CzcB 1968652:1969776 reverse # pl:9.89 MW:41685
3	UBA_LeptolI_Scaffold_7931_GENE_112_SigP	24	0	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
3	5way_CG_LeptolI_scaff_46_GENE_17_SigP	24	0	0	soluble cytochrome cB/cytochrome c553 1379572:1380243 reverse # pl:9.81 MW:24159
3	5way_CG_LeptolI_scaff_45_GENE_15_SigP	447	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
3	UBA_LeptolI_Scaffold_8027_GENE_50_SigP	28	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
3	5way_CG_LeptolI_scaff_43_GENE_22_SigP	42	0	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
3	5way_CG_LeptolI_scaff_30_GENE_28_SigP	30	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
3	UBA_LeptolIII_394_10_SigP	9	1	0	(-) # pl:11.06 MW:18504
3	UBA_LeptolI_Scaffold_8524_GENE_165_SigP	20	0	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
3	5way_CG_LeptolI_scaff_8_GENE_58_SigP	21	0	0	cytochrome c-551 558486:558818 reverse # pl:10.02 MW:11872
3	5way_CG_LeptolI_scaff_96_GENE_14_SigP	52	0	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
3	5way_CG_LeptolI_scaff_3_GENE_58_SigP	195	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
3	UBA_LeptolI_Scaffold_8241_GENE_298a_SigP	40	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pl:11.10 MW:25887
3	UBA_LeptolIII_364_1_SigP	19	0	0	(-) # pl:10.85 MW:12350
3	5way_CG_LeptolI_scaff_42_GENE_34_SigP	25	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
3	5way_CG_LeptolI_scaff_41_GENE_27_SigP	141	0	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
3	5way_CG_LeptolI_scaff_175_GENE_9_SigP	32	0	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746
3	UBA_LeptolIII_328_11_SigP	23	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
3	5way_CG_LeptolI_scaff_42_GENE_27_SigP	18	0	0	hypothetical protein 1233635:1234360 forward # pl:9.49 MW:27054
3	Unass_bact_scaff_903_GENE_5_SigP	49	0	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
3	UBA_LeptolI_Scaffold_8049_GENE_55_SigP	13	0	0	Hypothetical protein 42266:42961 forward # pl:7.09 MW:26271
3	5way_CG_LeptolI_scaff_81_GENE_24_SigP	65	3	0	(-) # pl:10.05 MW:15038
3	UBA_LeptolIII_314_4_SigP	65	3	0	(-) # pl:10.05 MW:15038
3	5way_CG_LeptolI_scaff_98_GENE_11_SigP	76	2	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
3	UBA_LeptolIII_373_5_SigP	11	0	0	(-) # pl:9.91 MW:21663
3	5way_CG_LeptolI_scaff_14_GENE_50_SigP	27	1	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
3	5way_CG_LeptolI_scaff_96_GENE_7_SigP	22	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
3	5way_CG_LeptolI_scaff_86_GENE_7_SigP	28	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
3	UBA_LeptolIII_332_4_SigP	2	0	0	(-) # pl:8.60 MW:14958
3	UBA_LeptolI_Scaffold_7931_GENE_98_SigP	12	0	0	Hypothetical protein 96019:96525 forward # pl:9.43 MW:19616
3	5way_CG_LeptolI_scaff_297_GENE_4_SigP	12	0	0	hypothetical protein 2435158:2435664 reverse # pl:9.43 MW:19616
3	UBA_LeptolI_Scaffold_8692_GENE_49_SigP	30	0	0	FOG 51650:53845 reverse # pl:9.71 MW:84153
3	UBA_LeptolI_Scaffold_8692_GENE_75_SigP	38	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
3	UBA_LeptolI_Scaffold_8241_GENE_270_SigP	21	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
3	UBA_LeptolI_Scaffold_8692_GENE_5_SigP	58	0	0	Hypothetical protein 4993:5544 forward # pl:10.17 MW:19972
3	UBA_LeptolI_Scaffold_8062_GENE_31_SigP	11	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
3	UBA_LeptolI_Scaffold_7931_GENE_281_SigP	11	0	0	Periplasmic protein involved in polysaccharide ex port 311387:312244 reverse # pl:9.91 MW:31407
3	5way_CG_LeptolI_scaff_25_GENE_53_SigP	9	0	0	hypothetical protein 917425:918120 forward # pl:7.75 MW:26216
3	UBA_LeptolI_Scaffold_8241_GENE_610_SigP	6	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
3	5way_CG_LeptolI_scaff_46_GENE_24_SigP	4	1	0	Hypothetical protein 122985:123505 reverse # pl:11.72 MW:18723
3	UBA_LeptolI_Scaffold_7931_GENE_119a_SigP	4	1	0	Hypothetical protein 122985:123505 reverse # pl:11.72 MW:18723
3	5way_CG_LeptolI_scaff_630_GENE_6_SigP	53	1	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
3	UBA_LeptolIII_353_2_SigP	8	0	0	(-) # pl:9.33 MW:31803
3	UBA_LeptolI_Scaffold_8692_GENE_69_SigP	4	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
3	UBA_LeptolI_Scaffold_7931_GENE_368_SigP	4	0	0	Hypothetical protein 424188:424832 forward # pl:9.22 MW:23066
3	UBA_LeptolI_Scaffold_8062_GENE_328_SigP	17	0	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
3	UBA_LeptolIII_356_3_SigP	9	5	0	(-) # pl:6.60 MW:24706
3	UBA_LeptolI_Scaffold_7931_GENE_311_SigP	28	0	0	FOG 348657:351887 forward # pl:9.10 MW:118365
3	UBA_LeptolI_Scaffold_7931_GENE_363_SigP	8	0	0	Peroxiredoxin 418582:419157 forward # pl:9.67 MW:21131

3	UBA_LeptolI_Scaffold_8062_GENE_268_SigP	4	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
3	UBA_LeptolII_395_61_SigP	4	0	0	(-) # pl:9.73 MW:17490
3	5way_CG_LeptolI_scaff_265_GENE_14_SigP	4	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
3	5way_CG_LeptolI_scaff_8_GENE_20_SigP	19	0	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
3	UBA_LeptolII_394_70_SigP	7	1	0	(-) # pl:10.49 MW:18094
3	UBA_LeptolII_Scaffold_8241_GENE_253_SigP	23	0	0	Putative secretion protein (HlyD) 238386:239528 reverse # pl:7.85 MW:42147
3	UBA_LeptolII_361_11_SigP	9	0	0	(-) # pl:9.66 MW:26334
3	UBA_LeptolII_394_36_SigP	6	0	0	(-) # pl:6.54 MW:55063
3	5way_CG_LeptolI_scaff_68_GENE_16_SigP	15	0	0	hypothetical protein 1654556:1655425 forward # pl:9.89 MW:31842
3	5way_CG_LeptolI_scaff_3_GENE_6_SigP	22	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
3	UBA_LeptolI_Scaffold_8241_GENE_32_SigP	17	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194
3	UBA_LeptolI_Scaffold_8524_GENE_248_SigP	9	0	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
3	UBA_LeptolI_Scaffold_8135_GENE_6_SigP	5	0	0	Hypothetical protein 4393:5034 reverse # pl:9.73 MW:24126
3	5way_CG_LeptolI_scaff_62_GENE_7_SigP	5	0	0	hypothetical protein 1561859:1562500 reverse # pl:9.99 MW:24347
3	UBA_LeptolII_361_10_SigP	10	0	0	(-) # pl:9.57 MW:54911
3	5way_CG_LeptolI_scaff_473_GENE_6_SigP	3	0	0	hypothetical protein 2604173:2604670 reverse # pl:10.24 MW:18719
3	5way_CG_LeptolI_scaff_98_GENE_10_SigP	7	0	0	hypothetical protein 1933888:1934532 forward # pl:9.80 MW:24317
3	5way_CG_LeptolI_scaff_4_GENE_7_SigP	4	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
3	5way_CG_LeptolI_scaff_7_GENE_28_SigP	9	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
3	5way_CG_LeptolI_scaff_25_GENE_47_SigP	13	0	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
3	UBA_LeptolII_320_1_SigP	3	3	0	(-) # pl:4.92 MW:22809
3	5way_CG_LeptolI_scaff_22_GENE_18_SigP	8	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
3	UBA_LeptolI_Scaffold_8241_GENE_21_SigP	40	9	0	Putative phospholipid binding protein 18471:19037 reverse # pl:9.81 MW:20481
3	UBA_LeptolII_Scaffold_7931_GENE_133_SigP	8	0	0	Hypothetical protein 138630:139502 forward # pl:9.94 MW:31918
3	5way_CG_LeptolI_scaff_186_GENE_8_SigP	8	0	0	hypothetical protein 2199191:2200063 forward # pl:9.94 MW:31918
3	5way_CG_LeptolI_scaff_41_GENE_29_SigP	6	0	0	bacterioferritin comigratory protein/poroxiredoxin 1204208:1204783 reverse # pl:9.67 MW:21373
3	5way_CG_LeptolI_scaff_30_GENE_22_SigP	20	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
3	UBA_LeptolI_Scaffold_8049_GENE_47_SigP	10	0	0	Hypothetical protein 37752:38414 reverse # pl:9.93 MW:24100
3	UBA_LeptolI_Scaffold_8135_GENE_5_SigP	6	0	0	FOG 3195:4136 forward # pl:9.10 MW:34971
3	UBA_LeptolII_391_4_SigP	10	0	0	(-) # pl:10.15 MW:22759
3	5way_CG_LeptolI_scaff_30_GENE_6_SigP	3	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
3	5way_CG_LeptolI_scaff_183_GENE_6_SigP	5	0	0	hypothetical protein 2174071:2174934 forward # pl:9.26 MW:31876
3	UBA_LeptolI_Scaffold_8241_GENE_256_SigP	9	0	0	Hypothetical protein 241268:241888 reverse # pl:10.64 MW:22967
3	5way_CG_LeptolI_scaff_59_GENE_28_SigP	9	0	0	hypothetical protein 1554663:1555283 forward # pl:10.76 MW:22906
3	5way_CG_LeptolI_scaff_287_GENE_4_SigP	22	3	0	hypothetical protein 2399359:2399979 reverse # pl:8.69 MW:22528
3	UBA_LeptolI_Scaffold_8241_GENE_544_SigP	9	0	0	Hypothetical protein 522023:522568 forward # pl:9.54 MW:20235
3	UBA_LeptolI_Scaffold_8241_GENE_295_SigP	2	0	0	Hypothetical protein 274121:274495 forward # pl:9.10 MW:13221
3	5way_CG_LeptolI_scaff_41_GENE_24_SigP	3	0	0	hypothetical protein 1198537:1199181 reverse # pl:9.03 MW:23062
3	UBA_LeptolI_Scaffold_7931_GENE_347_SigP	4	0	0	Hypothetical protein 402145:403218 reverse # pl:8.65 MW:39325
3	UBA_LeptolI_Scaffold_8027_GENE_48a_SigP	9	0	0	Hypothetical protein 47726:48559 forward # pl:11.68 MW:30762
3	UBA_LeptolI_Scaffold_7931_GENE_16_SigP	6	0	0	Hypothetical protein 12313:12933 reverse # pl:9.26 MW:23588
3	5way_CG_LeptolI_scaff_428_GENE_6_SigP	6	0	0	hypothetical protein 2557294:2557914 reverse # pl:9.26 MW:23588
3	UBA_LeptolI_Scaffold_8692_GENE_129_SigP	5	0	0	Uncharacterized NAD(FAD)-dependent dehydrogenases 123535:124674 reverse # pl:7.78 MW:42008
3	5way_CG_LeptolI_scaff_271_GENE_3_SigP	5	0	0	flavoprotein oxidoreductase 2359237:2360376 reverse # pl:7.21 MW:42034
3	5way_CG_LeptolI_scaff_630_GENE_3_SigP	2	0	0	hypothetical protein 2708442:2709209 forward # pl:9.62 MW:28389
3	UBA_LeptolI_Scaffold_8241_GENE_162_SigP	3	0	0	Hypothetical protein 154823:155293 reverse # pl:11.71 MW:17179
3	5way_CG_LeptolI_scaff_4_GENE_95_SigP	3	0	0	hypothetical protein 329763:330233 forward # pl:11.71 MW:17179
3	UBA_LeptolII_395_59_SigP	21	0	0	(-) # pl:9.43 MW:19080
3	UBA_LeptolII_397_15_SigP	2	0	0	(-) # pl:9.26 MW:29303
3	UBA_LeptolI_Scaffold_8692_GENE_147_SigP	6	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
3	UBA_LeptolI_Scaffold_8241_GENE_81_SigP	204	0	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
3	5way_CG_LeptolI_scaff_21_GENE_56_SigP	204	0	0	hypothetical protein 761096:761443 forward # pl:10.42 MW:12486
3	5way_CG_LeptolI_scaff_8_GENE_36_SigP	13	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
3	UBA_LeptolII_374_3_SigP	4	0	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
3	5way_CG_LeptolI_scaff_21_GENE_53_SigP	4	0	0	hypothetical protein 759903:760511 reverse # pl:9.47 MW:21658
3	UBA_LeptolI_Scaffold_8692_GENE_152a_SigP	9	0	0	Hypothetical protein 144506:146251 reverse # pl:10.50 MW:66356
3	UBA_LeptolI_Scaffold_8135_GENE_81_SigP	3	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
3	UBA_LeptolI_Scaffold_8049_GENE_3_SigP	3	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
3	5way_CG_LeptolI_scaff_25_GENE_2_SigP	3	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
3	5way_CG_LeptolI_scaff_120_GENE_14_SigP	3	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
3	UBA_LeptolII_329_1_SigP	2	1	0	(R - Phospholipid-binding protein) # pl:9.92 MW:17607
3	5way_CG_LeptolI_scaff_22_GENE_33_SigP	14	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
3	5way_CG_LeptolI_scaff_167_GENE_7_SigP	20	0	0	hypothetical protein 2094828:2096972 reverse # pl:8.62 MW:78226
3	5way_CG_LeptolI_scaff_141_GENE_2_SigP	2	0	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
3	UBA_LeptolI_Scaffold_8241_GENE_690_SigP	7	0	0	Hypothetical protein 681251:682891 forward # pl:4.70 MW:59054
3	UBA_LeptolI_Scaffold_7931_GENE_123_SigP	5	0	0	Cytochrome c 128461:129270 forward # pl:9.68 MW:29622
3	5way_CG_LeptolI_scaff_46_GENE_28_SigP	5	0	0	cytochrome c 1396147:1396956 forward # pl:9.68 MW:29622
3	5way_CG_LeptolI_scaff_96_GENE_5_SigP	7	0	0	hypothetical protein 1906272:1907108 forward # pl:11.31 MW:30636
3	5way_CG_LeptolI_scaff_32_GENE_52_SigP	7	3	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
3	UBA_LeptolI_Scaffold_8049_GENE_42_SigP	3	1	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108

3	UBA_LeptolIII_398_122_SigP	3	0	0	(-) # pl:9.92 MW:13689
3	5way_CG_LeptolII_scaff_22_GENE_30_SigP	5	0	0	cellulase 797157:798257 reverse # pl:9.98 MW:41939
3	UBA_LeptolII_Scaffold_8135_GENE_45_SigP	5	0	0	Predicted secreted hydrolase 44062:45204 forward # pl:9.88 MW:42796
3	UBA_LeptolII_Scaffold_8062_GENE_38_SigP	9	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
3	UBA_LeptolII_Scaffold_8524_GENE_98_SigP	2	0	0	undefined product 87262:87864 forward # pl:7.20 MW:22096
3	UBA_LeptolII_Scaffold_7931_GENE_191_SigP	4	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
3	UBA_LeptolII_396_5_SigP	17	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
3	UBA_LeptolII_Scaffold_8027_GENE_49_SigP	8	3	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pl:9.05 MW:50054
3	UBA_LeptolII_Scaffold_8524_GENE_127_SigP	11	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pl:9.38 MW:87643
3	UBA_LeptolII_307_1_SigP	17	1	0	(-) # pl:7.72 MW:17434
3	UBA_LeptolII_390_44_SigP	17	1	0	(-) # pl:7.72 MW:17434
3	5way_CG_LeptolII_scaff_25_GENE_46_SigP	6	0	0	hypothetical protein 912913:913575 reverse # pl:10.04 MW:23895
3	UBA_LeptolII_Scaffold_8241_GENE_211_SigP	2	0	0	Hypothetical protein 198087:198596 reverse # pl:10.75 MW:19344
3	5way_CG_LeptolII_scaff_4_GENE_43_SigP	2	0	0	hypothetical protein 282883:283392 forward # pl:10.61 MW:19340
3	5way_CG_LeptolII_scaff_53_GENE_11_SigP	5	0	0	hypothetical protein 1475234:1476562 reverse # pl:9.99 MW:49997
3	UBA_LeptolII_398_1_SigP	2	0	0	(-) # pl:5.16 MW:9995
3	UBA_LeptolII_Scaffold_8692_GENE_161_SigP	6	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
3	5way_CG_LeptolII_scaff_6_GENE_20_SigP	9	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
3	UBA_LeptolII_Scaffold_7931_GENE_383_SigP	4	0	0	undefined product 441204:441656 forward # pl:7.12 MW:15956
3	5way_CG_LeptolII_scaff_41_GENE_9_SigP	4	0	0	hypothetical protein 1181714:1182166 reverse # pl:7.84 MW:15936
3	UBA_LeptolII_Scaffold_8241_GENE_469_SigP	20	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
3	UBA_LeptolII_384_12_SigP	4	0	0	(-) # pl:10.43 MW:24691
3	5way_CG_LeptolII_scaff_42_GENE_24_SigP	15	0	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
3	UBA_LeptolII_Scaffold_7931_GENE_76_SigP	3	0	0	undefined product 74592:75590 forward # pl:4.92 MW:36775
3	5way_CG_LeptolII_scaff_66_GENE_9_SigP	3	0	0	hypothetical protein 1593933:1594931 forward # pl:5.00 MW:36982
3	5way_CG_LeptolII_scaff_96_GENE_6_SigP	6	3	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
3	UBA_LeptolII_Scaffold_7931_GENE_181_SigP	8	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pl:10.33 MW:77941
3	UBA_LeptolII_390_49_SigP	3	0	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
3	UBA_LeptolII_382_13_SigP	4	0	0	(-) # pl:9.79 MW:36778
3	UBA_LeptolII_Scaffold_7931_GENE_1_SigP	7	0	0	Membrane proteins related to metalloendopeptidase s 348:1544 reverse # pl:10.10 MW:46222
3	5way_CG_LeptolII_scaff_274_GENE_10_SigP	7	0	0	hypothetical protein 2375353:2376549 forward # pl:10.10 MW:46222
3	5way_CG_LeptolII_scaff_32_GENE_53_SigP	5	0	0	efflux transporter 1124403:1125452 forward # pl:10.38 MW:37076
3	5way_CG_LeptolII_scaff_167_GENE_10_SigP	13	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
3	UBA_LeptolII_394_52_SigP	2	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554
3	UBA_LeptolII_Scaffold_8524_GENE_101_SigP	4	0	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
3	UBA_LeptolII_Scaffold_7931_GENE_32_SigP	3	0	0	Hypothetical protein 27920:29092 reverse # pl:9.33 MW:43431
3	UBA_LeptolII_Scaffold_8241_GENE_149_SigP	23	1	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
3	UBA_LeptolII_Scaffold_8524_GENE_225_SigP	8	0	0	Hypothetical protein 208344:209684 forward # pl:7.25 MW:49701
3	5way_CG_LeptolII_scaff_27_GENE_41_SigP	5	0	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
3	5way_CG_LeptolII_scaff_67_GENE_19_SigP	3	0	0	hypothetical protein 1629206:1630348 forward # pl:9.93 MW:42988
3	UBA_LeptolII_21_2_SigP	10	0	0	(-) # pl:10.11 MW:14141 , typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
3	UBA_LeptolII_399_60_SigP	4	0	0	(O - Trypsin-like serine proteases
3	UBA_LeptolII_Scaffold_8241_GENE_642_SigP	2	0	0	Hypothetical protein 624997:625638 forward # pl:9.97 MW:23181
3	5way_CG_LeptolII_scaff_2_GENE_44_SigP	6	0	0	soluble lytic transglycosylase 48347:50407 reverse # pl:10.33 MW:77488
3	5way_CG_LeptolII_scaff_94_GENE_5_SigP	26	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
3	UBA_LeptolII_Scaffold_7931_GENE_122_SigP	19	0	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
3	UBA_LeptolII_394_18_SigP	19	0	0	(C - Cytochrome c) # pl:9.67 MW:28371
3	5way_CG_LeptolII_scaff_46_GENE_27_SigP	19	0	0	cytochrome c 1395273:1396082 forward # pl:9.97 MW:29736
3	UBA_LeptolII_Scaffold_8027_GENE_55_SigP	3	0	0	FOG 55616:56380 forward # pl:9.75 MW:29641
3	5way_CG_LeptolII_scaff_96_GENE_12_SigP	3	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
3	5way_CG_LeptolII_scaff_6_GENE_46_SigP	3	0	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
3	UBA_LeptolII_394_71_SigP	16	0	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
3	5way_CG_LeptolII_scaff_689_GENE_3_SigP	16	0	0	cytochrome c551 2741290:2741619 forward # pl:9.20 MW:11513
3	UBA_LeptolII_Scaffold_7931_GENE_128_SigP	3	0	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
3	5way_CG_LeptolII_scaff_186_GENE_4_SigP	3	0	0	general secretion pathway GspD 2193892:2195559 forward # pl:9.57 MW:59267
3	UBA_LeptolII_Scaffold_8241_GENE_570_SigP	9	0	0	Outer membrane protein 555547:557019 forward # pl:9.35 MW:54952
3	5way_CG_LeptolII_scaff_43_GENE_19_SigP	9	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
3	5way_CG_LeptolII_scaff_13_GENE_57_SigP	3	0	0	hypothetical protein 633696:634211 reverse # pl:9.45 MW:19141
3	5way_CG_LeptolII_scaff_3_GENE_47_SigP	3	0	0	peptidase, M23/M37 family 183484:184374 reverse # pl:10.45 MW:32357
3	UBA_LeptolII_Scaffold_8135_GENE_21_SigP	2	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 17506:18927 reverse # pl:10.05 MW:52808
3	5way_CG_LeptolII_scaff_865_GENE_1_SigP	2	0	0	hypothetical protein 2820338:2820835 forward # pl:4.07 MW:17740
3	5way_CG_LeptolII_scaff_53_GENE_26_SigP	6	0	0	hypothetical protein 1495267:1496724 reverse # pl:10.11 MW:49724
3	5way_CG_LeptolII_scaff_53_GENE_17_SigP	2	0	0	hypothetical protein 1482065:1483813 reverse # pl:10.58 MW:67070
3	UBA_LeptolII_391_22_SigP	2	0	0	(R - FOG: TPR repeat) # pl:8.84 MW:118396
3	UBA_LeptolII_Scaffold_7931_GENE_115_SigP	3	0	0	undefined product 117485:118492 forward # pl:9.77 MW:38243
3	5way_CG_LeptolII_scaff_46_GENE_20_SigP	3	0	0	cellulose synthase, subunit C 1385171:1386178 forward # pl:9.77 MW:38243
3	fer2_scaff_19_GENE_17_SigP	40	0	0	- # Function: Hypothetical protein # pl:8.42 MW:41218
3	UBA_LeptolII_398_127_SigP	34	0	0	(M - Outer membrane protein) # pl:9.46 MW:53453

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB Front Sample Set - Run 1

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
1	5way_CG_LeptolI_scaff_46_GENE_4_SigP	30	1	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
1	UBA_LeptolI_Scaffold_7931_GENE_101_SigP	30	1	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
1	UBA_LeptolI_Scaffold_8524_GENE_128_SigP	359	11	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
1	5way_CG_LeptolI_scaff_6_GENE_19_SigP	407	11	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
1	5way_CG_LeptolI_scaff_689_GENE_3_SigP	34	1	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
1	UBA_LeptolII_394_71_SigP	34	1	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
1	UBA_LeptolI_Scaffold_8049_GENE_48_SigP	17	2	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
1	UBA_LeptolII_388_1_SigP	128	3	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
1	5way_CG_LeptolI_scaff_62_GENE_10_SigP	107	14	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
1	5way_CG_LeptolI_scaff_62_GENE_1_SigP	38	1	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
1	5way_CG_LeptolI_scaff_45_GENE_15_SigP	442	3	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
1	UBA_LeptolII_376_11_SigP	52	0	0	(-) # pl:7.90 MW:21402
1	UBA_LeptolI_Scaffold_8049_GENE_366_SigP	428	1	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
1	UBA_LeptolII_398_122_SigP	52	20	0	(-) # pl:9.92 MW:13689
1	UBA_LeptolI_Scaffold_8241_GENE_297_SigP	204	7	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
1	UBA_LeptolI_Scaffold_8135_GENE_9_SigP	100	14	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
1	UBA_LeptolII_356_3_SigP	33	5	0	(-) # pl:6.60 MW:24706
1	UBA_LeptolI_Scaffold_8049_GENE_83_SigP	175	46	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
1	5way_CG_LeptolI_scaff_3_GENE_4_SigP	220	13	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
1	5way_CG_LeptolI_scaff_374_GENE_7_SigP	85	13	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
1	UBA_LeptolI_Scaffold_8241_GENE_153_SigP	85	13	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
1	UBA_LeptolI_Scaffold_8524_GENE_248_SigP	39	2	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
1	5way_CG_LeptolI_scaff_8_GENE_20_SigP	25	1	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
1	5way_CG_LeptolI_scaff_81_GENE_24_SigP	105	1	0	(-) # pl:10.05 MW:15038
1	UBA_LeptolII_314_4_SigP	105	1	0	(-) # pl:10.05 MW:15038
1	5way_CG_LeptolI_scaff_4_GENE_16_SigP	186	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
1	5way_CG_LeptolI_scaff_23_GENE_15_SigP	166	46	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
1	UBA_LeptolII_394_70_SigP	51	4	0	(-) # pl:10.49 MW:18094
1	UBA_LeptolII_399_60_SigP	77	3	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
1	UBA_LeptolII_390_49_SigP	77	7	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
1	UBA_LeptolI_Scaffold_8241_GENE_238_SigP	162	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
1	UBA_LeptolI_Scaffold_8524_GENE_249_SigP	287	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
1	UBA_LeptolI_Scaffold_8062_GENE_34_SigP	150	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
1	UBA_LeptolI_Scaffold_8062_GENE_53_SigP	110	1	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
1	5way_CG_LeptolI_scaff_141_GENE_3_SigP	275	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
1	UBA_LeptolII_394_10_SigP	36	2	0	(-) # pl:11.06 MW:18504
1	UBA_LeptolII_361_11_SigP	99	0	0	(-) # pl:9.66 MW:26334
1	5way_CG_LeptolI_scaff_98_GENE_12_SigP	161	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
1	UBA_LeptolII_373_5_SigP	85	0	0	(-) # pl:9.91 MW:21663
1	5way_CG_LeptolI_scaff_8_GENE_58_SigP	22	0	0	cytochrome c-551 558486:558818 reverse # pl:10.02 MW:11872
1	5way_CG_LeptolI_scaff_141_GENE_2_SigP	37	2	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
1	5way_CG_LeptolI_scaff_376_GENE_6_SigP	9	2	0	hypothetical protein 2514094:2514462 reverse # pl:9.68 MW:13844
1	UBA_LeptolII_399_92_SigP	189	43	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
1	UBA_LeptolI_Scaffold_8241_GENE_56_SigP	129	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
1	5way_CG_LeptolI_scaff_21_GENE_26_SigP	129	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
1	UBA_LeptolII_391_6_SigP	10	0	0	(-) # pl:9.46 MW:11977
1	UBA_LeptolII_391_4_SigP	101	0	0	(-) # pl:10.15 MW:22759
1	5way_CG_LeptolI_scaff_8_GENE_23_SigP	32	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
1	5way_CG_LeptolI_scaff_41_GENE_27_SigP	78	1	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
1	5way_CG_LeptolI_scaff_43_GENE_14_SigP	53	1	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
1	UBA_LeptolI_Scaffold_8241_GENE_349_SigP	145	0	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
1	UBA_LeptolII_374_3_SigP	19	7	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
1	UBA_LeptolII_351_1_SigP	52	0	0	(-) # pl:9.75 MW:19719
1	UBA_LeptolII_336_16_SigP	52	0	0	(-) # pl:9.75 MW:19719
1	UBA_LeptolII_382_21_SigP	33	0	0	(S - Uncharacterized protein conserved in bacteria) # pl:9.37 MW:30574
1	UBA_LeptolII_361_10_SigP	68	2	0	(-) # pl:9.57 MW:54911
1	UBA_LeptolII_394_36_SigP	52	0	0	(-) # pl:6.54 MW:55063
1	UBA_LeptolI_Scaffold_8524_GENE_201_SigP	31	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
1	5way_CG_LeptolI_scaff_178_GENE_9_SigP	6	3	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
1	UBA_LeptolI_Scaffold_8049_GENE_321_SigP	6	3	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
1	5way_CG_LeptolI_scaff_96_GENE_7_SigP	63	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
1	UBA_LeptolI_Scaffold_8027_GENE_50_SigP	61	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
1	UBA_LeptolII_382_13_SigP	34	0	0	(-) # pl:9.79 MW:36778
1	UBA_LeptolII_396_81_SigP	6	1	0	(-) # pl:9.87 MW:18141
1	5way_CG_LeptolI_scaff_66_GENE_6_SigP	24	8	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
1	UBA_LeptolI_Scaffold_7931_GENE_73_SigP	24	8	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
1	5way_CG_LeptolI_scaff_32_GENE_19_SigP	87	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114

1	5way_CG_Leptoll_scaff_96_GENE_14_SigP	56	0	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
1	UBA_Leptoll_Scaffold_8027_GENE_57_SigP	53	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
1	UBA_Leptoll_Scaffold_8241_GENE_121_SigP	86	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
1	5way_CG_Leptoll_scaff_98_GENE_16_SigP	52	0	0	hypothetical protein 1939943:1940773 reverse # pl:5.20 MW:28369
1	5way_CG_Leptoll_scaff_3_GENE_5_SigP	185	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
1	5way_CG_Leptoll_scaff_25_GENE_47_SigP	11	0	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
1	UBA_LeptollIII_397_16_SigP	27	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:9.97 MW:35837
1	UBA_LeptollIII_364_1_SigP	199	0	0	(-) # pl:10.85 MW:12350
1	5way_CG_Leptoll_scaff_43_GENE_22_SigP	31	2	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
1	UBA_Leptoll_Scaffold_8241_GENE_348_SigP	62	1	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
1	UBA_Leptoll_Scaffold_8241_GENE_565_SigP	45	0	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
1	5way_CG_Leptoll_scaff_98_GENE_11_SigP	44	1	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
1	UBA_LeptollIII_398_1_SigP	5	0	0	(-) # pl:5.16 MW:9995
1	UBA_Leptoll_Scaffold_8049_GENE_209_SigP	39	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
1	UBA_Leptoll_Scaffold_8241_GENE_693_SigP	150	31	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
1	5way_CG_Leptoll_scaff_32_GENE_25_SigP	196	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
1	5way_CG_Leptoll_scaff_21_GENE_20_SigP	36	0	0	hypothetical protein 728920:729237 forward # pl:9.18 MW:11040
1	UBA_Leptoll_Scaffold_8241_GENE_298_SigP	180	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
1	UBA_LeptollIII_398_2_SigP	151	0	0	(-) # pl:10.81 MW:15675
1	5way_CG_Leptoll_scaff_3_GENE_6_SigP	33	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
1	UBA_LeptollIII_361_9_SigP	17	0	0	(-) # pl:9.43 MW:25462
1	UBA_Leptoll_Scaffold_8524_GENE_235_SigP	14	0	0	Cytochrome c551/c552 219925:220257 reverse # pl:9.89 MW:11806
1	UBA_LeptollIII_307_1_SigP	33	0	0	(-) # pl:9.55 MW:17070
1	UBA_LeptollIII_353_2_SigP	25	0	0	(-) # pl:9.33 MW:31803
1	5way_CG_Leptoll_scaff_21_GENE_56_SigP	30	2	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
1	UBA_Leptoll_Scaffold_8241_GENE_81_SigP	30	2	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
1	UBA_LeptollIII_394_29_SigP	39	0	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
1	UBA_LeptollIII_399_123_SigP	25	0	0	(-) # pl:9.93 MW:19208
1	5way_CG_Leptoll_scaff_4_GENE_2_SigP	24	0	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
1	UBA_Leptoll_Scaffold_8135_GENE_71_SigP	23	1	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
1	UBA_Leptoll_Scaffold_8241_GENE_298a_SigP	30	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pl:11.10 MW:25887
1	UBA_Leptoll_Scaffold_8524_GENE_197_SigP	23	0	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
1	5way_CG_Leptoll_scaff_3_GENE_58_SigP	100	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
1	UBA_Leptoll_Scaffold_8524_GENE_216_SigP	14	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
1	UBA_LeptollIII_375_20_SigP	12	0	0	(-) # pl:9.30 MW:13970
1	UBA_LeptollIII_393_44_SigP	23	0	0	(-) # pl:9.02 MW:37913
1	5way_CG_Leptoll_scaff_98_GENE_10_SigP	15	0	0	hypothetical protein 1933888:1934532 forward # pl:9.80 MW:24317
1	UBA_Leptoll_Scaffold_7931_GENE_16_SigP	8	0	0	Hypothetical protein 12313:12933 reverse # pl:9.26 MW:23588
1	5way_CG_Leptoll_scaff_428_GENE_6_SigP	8	0	0	hypothetical protein 2557294:2557914 reverse # pl:9.26 MW:23588
1	5way_CG_Leptoll_scaff_59_GENE_28_SigP	10	0	0	hypothetical protein 1554663:1555283 forward # pl:10.76 MW:22906
1	Unass_bact_scaff_920_GENE_3_SigP	28	0	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
1	Unass_bact_scaff_1131_GENE_3_SigP	44	0	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
1	5way_CG_Leptoll_scaff_46_GENE_16_SigP	45	6	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
1	UBA_Leptoll_Scaffold_7931_GENE_111_SigP	45	6	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
1	5way_CG_Leptoll_scaff_511_GENE_2_SigP	61	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
1	5way_CG_Leptoll_scaff_14_GENE_50_SigP	24	2	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
1	UBA_Leptoll_Scaffold_7931_GENE_365_SigP	66	0	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
1	UBA_Leptoll_Scaffold_8049_GENE_42a_SigP	7	0	0	Hypothetical protein 34331:34687 reverse # pl:9.86 MW:13687
1	5way_CG_Leptoll_scaff_69_GENE_29_SigP	9	0	0	hypothetical protein 1690146:1690733 forward # pl:6.65 MW:21276
1	5way_CG_Leptoll_scaff_42_GENE_34_SigP	32	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
1	UBA_LeptollIII_388_39_SigP	15	1	0	(O - Thiol-disulfide isomerase and thioredoxins) # pl:6.21 MW:38783
1	UBA_LeptollIII_397_15_SigP	33	0	0	(-) # pl:9.26 MW:29303
1	UBA_Leptoll_Scaffold_8049_GENE_192_SigP	80	0	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
1	UBA_Leptoll_Scaffold_8062_GENE_32_SigP	28	1	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
1	5way_CG_Leptoll_scaff_80_GENE_22_SigP	37	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
1	5way_CG_Leptoll_scaff_45_GENE_1_SigP	11	0	0	hypothetical protein 1327401:1327739 forward # pl:8.96 MW:11861
1	5way_CG_Leptoll_scaff_8_GENE_36_SigP	11	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
1	5way_CG_Leptoll_scaff_51_GENE_20_SigP	7	0	0	hypothetical protein 1459861:1460295 reverse # pl:9.38 MW:16001
1	UBA_Leptoll_Scaffold_7931_GENE_338_SigP	23	0	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
1	5way_CG_Leptoll_scaff_86_GENE_7_SigP	25	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
1	UBA_Leptoll_Scaffold_8241_GENE_32_SigP	30	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194
1	5way_CG_Leptoll_scaff_48_GENE_32_SigP	19	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
1	5way_CG_Leptoll_scaff_2_GENE_49_SigP	23	2	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
1	UBA_Leptoll_Scaffold_7931_GENE_186_SigP	23	2	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
1	5way_CG_Leptoll_scaff_21_GENE_53_SigP	20	0	0	hypothetical protein 759903:760511 reverse # pl:9.47 MW:21658
1	UBA_LeptollIII_328_11_SigP	43	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
1	UBA_LeptollIII_399_159_SigP	25	1	0	(-) # pl:9.62 MW:23985
1	5way_CG_Leptoll_scaff_86_GENE_17_SigP	13	0	0	hypothetical protein 1859523:1860593 reverse # pl:9.14 MW:39110
1	UBA_Leptoll_Scaffold_8692_GENE_69_SigP	11	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
1	5way_CG_Leptoll_scaff_30_GENE_6_SigP	11	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
1	UBA_Leptoll_Scaffold_8692_GENE_133_SigP	11	0	0	Hypothetical protein 127591:128046 forward # pl:9.36 MW:16779
1	UBA_Leptoll_Scaffold_8241_GENE_114_SigP	194	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321

1	5way_CG_LeptolII_scaff_25_GENE_41_SigP	7	0	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
1	UBA_LeptolII_Scaffold_8241_GENE_573_SigP	26	0	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
1	UBA_LeptolII_Scaffold_8062_GENE_31_SigP	12	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
1	5way_CG_LeptolII_scaff_42_GENE_33_SigP	46	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
1	UBA_LeptolII_Scaffold_8241_GENE_522_SigP	17	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
1	UBA_LeptolII_Scaffold_8241_GENE_253_SigP	21	0	0	Putative secretion protein (HlyD) 238386:239528 reverse # pl:7.85 MW:42147
1	UBA_LeptolII_Scaffold_8062_GENE_173_SigP	15	2	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
1	5way_CG_LeptolII_scaff_333_GENE_9_SigP	16	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
1	UBA_LeptolII_Scaffold_7931_GENE_112_SigP	18	0	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
1	5way_CG_LeptolII_scaff_46_GENE_17_SigP	18	0	0	soluble cytochrome cB/cytochrome c553 1379572:1380243 reverse # pl:9.81 MW:24159
1	5way_CG_LeptolII_scaff_4_GENE_18_SigP	5	2	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
1	UBA_LeptolII_Scaffold_8241_GENE_236_SigP	5	2	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
1	UBA_LeptolII_377_1_SigP	22	0	0	(-) # pl:4.34 MW:22342
1	5way_CG_LeptolII_scaff_13_GENE_57_SigP	16	1	0	hypothetical protein 633696:634211 reverse # pl:9.45 MW:19141
1	UBA_LeptolII_Scaffold_8062_GENE_38_SigP	46	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
1	5way_CG_LeptolII_scaff_14_GENE_26_SigP	26	0	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
1	5way_CG_LeptolII_scaff_167_GENE_7_SigP	21	0	0	hypothetical protein 2094828:2096972 reverse # pl:8.62 MW:78226
1	5way_CG_LeptolII_scaff_120_GENE_4_SigP	21	0	0	efflux protein, CzcB 1968652:1969776 reverse # pl:9.89 MW:41685
1	5way_CG_LeptolII_scaff_630_GENE_6_SigP	234	0	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
1	UBA_LeptolII_Scaffold_8692_GENE_49_SigP	27	0	0	FOG 51650:53845 reverse # pl:9.71 MW:84153
1	UBA_LeptolII_Scaffold_8062_GENE_151_SigP	27	0	0	Hypothetical protein 158736:159437 reverse # pl:10.88 MW:26479
1	5way_CG_LeptolII_scaff_41_GENE_29_SigP	7	0	0	bacterioferritin comigratory protein/peroxiredoxin 1204208:1204783 reverse # pl:9.67 MW:21373
1	UBA_LeptolII_Scaffold_7931_GENE_363_SigP	8	0	0	Peroxioredoxin 418582:419157 forward # pl:9.67 MW:21131
1	UBA_LeptolII_Scaffold_8524_GENE_269_SigP	25	0	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589
1	5way_CG_LeptolII_scaff_30_GENE_22_SigP	29	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
1	UBA_LeptolII_Scaffold_8241_GENE_270_SigP	19	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
1	5way_CG_LeptolII_scaff_42_GENE_27_SigP	8	0	0	hypothetical protein 1233635:1234360 forward # pl:9.49 MW:27054
1	UBA_LeptolII_341_3_SigP	8	0	0	(R - FOG: TPR repeat) # pl:9.23 MW:30968
1	UBA_LeptolII_Scaffold_8062_GENE_96_SigP	5	0	0	Hypothetical protein 91810:92214 forward # pl:9.91 MW:15955
1	UBA_LeptolII_377_5_SigP	9	0	0	(-) # pl:11.23 MW:25053
1	5way_CG_LeptolII_scaff_175_GENE_9_SigP	32	0	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746
1	UBA_LeptolII_Scaffold_8241_GENE_610_SigP	12	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
1	UBA_LeptolII_378_9_SigP	26	0	0	(R - FOG: TPR repeat) # pl:9.56 MW:86065
1	UBA_LeptolII_396_5_SigP	12	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
1	UBA_LeptolII_Scaffold_8241_GENE_256_SigP	11	0	0	Hypothetical protein 241268:241888 reverse # pl:10.64 MW:22967
1	UBA_LeptolII_355_4_SigP	6	0	0	(-) # pl:6.59 MW:21586
1	UBA_LeptolII_399_64_SigP	9	0	0	(-) # pl:9.80 MW:25377
1	UBA_LeptolII_384_12_SigP	13	0	0	(-) # pl:10.43 MW:24691
1	UBA_LeptolII_334_5_SigP	8	0	0	(-) # pl:10.11 MW:31964
1	UBA_LeptolII_Scaffold_8241_GENE_79_SigP	6	0	0	Hypothetical protein 78556:79164 reverse # pl:9.58 MW:21627
1	UBA_LeptolII_391_32_SigP	7	0	0	(M - Periplasmic protein involved in polysaccharide export) # pl:9.52 MW:31336
1	UBA_LeptolII_Scaffold_7931_GENE_97_SigP	7	0	0	Hypothetical protein 95055:95750 reverse # pl:8.82 MW:26173
1	5way_CG_LeptolII_scaff_297_GENE_5_SigP	7	0	0	hypothetical protein 2435933:2436628 forward # pl:8.82 MW:26173
1	5way_CG_LeptolII_scaff_297_GENE_7_SigP	3	1	0	undefined product 93000:93377 forward # pl:6.24 MW:14033
1	UBA_LeptolII_Scaffold_7931_GENE_95_SigP	3	1	0	undefined product 93000:93377 forward # pl:6.24 MW:14033
1	UBA_LeptolII_Scaffold_7931_GENE_352_SigP	6	0	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
1	5way_CG_LeptolII_scaff_271_GENE_7_SigP	9	0	0	hypothetical protein 2363290:2363745 forward # pl:9.40 MW:16789
1	UBA_LeptolII_Scaffold_7931_GENE_87_SigP	20	0	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
1	5way_CG_LeptolII_scaff_66_GENE_21_SigP	20	0	0	hypothetical protein 1603957:1604319 reverse # pl:8.80 MW:13441
1	5way_CG_LeptolII_scaff_473_GENE_6_SigP	46	0	0	hypothetical protein 2604173:2604670 reverse # pl:10.24 MW:18719
1	5way_CG_LeptolII_scaff_25_GENE_46_SigP	10	0	0	hypothetical protein 912913:913575 reverse # pl:10.04 MW:23895
1	UBA_LeptolII_Scaffold_8241_GENE_469_SigP	12	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
1	UBA_LeptolII_355_10_SigP	5	0	0	(-) # pl:9.09 MW:19511
1	UBA_LeptolII_Scaffold_8241_GENE_392_SigP	3	0	0	Hypothetical protein 371271:371777 forward # pl:11.11 MW:18296
1	5way_CG_LeptolII_scaff_14_GENE_4_SigP	8	0	0	hypothetical protein 648825:649448 forward # pl:9.19 MW:23376
1	5way_CG_LeptolII_scaff_21_GENE_25_SigP	11	0	0	hypothetical protein 735291:736745 reverse # pl:7.80 MW:53899
1	UBA_LeptolII_354_2_SigP	11	0	0	(-) # pl:7.82 MW:16492
1	UBA_LeptolII_Scaffold_8241_GENE_21_SigP	9	1	0	Putative phospholipid binding protein 18471:19037 reverse # pl:9.81 MW:20481
1	5way_CG_LeptolII_scaff_59_GENE_16_SigP	21	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
1	UBA_LeptolII_Scaffold_8049_GENE_47_SigP	10	0	0	Hypothetical protein 37752:38414 reverse # pl:9.93 MW:24100
1	5way_CG_LeptolII_scaff_68_GENE_16_SigP	12	0	0	hypothetical protein 1654556:1655425 forward # pl:9.89 MW:31842
1	UBA_LeptolII_352_3_SigP	12	0	0	(-) # pl:10.55 MW:21019
1	UBA_LeptolII_Scaffold_8241_GENE_175_SigP	3	0	0	Hypothetical protein 167847:168170 forward # pl:5.03 MW:11883
1	5way_CG_LeptolII_scaff_4_GENE_82_SigP	3	0	0	hypothetical protein 316894:317217 reverse # pl:5.03 MW:11881
1	5way_CG_LeptolII_scaff_22_GENE_18_SigP	32	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
1	UBA_LeptolII_Scaffold_7931_GENE_98_SigP	11	0	0	Hypothetical protein 96019:96525 forward # pl:9.43 MW:19616
1	5way_CG_LeptolII_scaff_297_GENE_4_SigP	11	0	0	hypothetical protein 2435158:2435664 reverse # pl:9.43 MW:19616
1	UBA_LeptolII_329_1_SigP	9	3	0	(R - Phospholipid-binding protein) # pl:9.92 MW:17607
1	UBA_LeptolII_394_52_SigP	16	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554
1	5way_CG_LeptolII_scaff_45_GENE_7_SigP	4	0	0	hypothetical protein 1332494:1333015 reverse # pl:9.58 MW:19637
1	5way_CG_LeptolII_scaff_27_GENE_41_SigP	20	0	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
1	5way_CG_LeptolII_scaff_43_GENE_19_SigP	19	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919

1	UBA_LeptolII_Scaffold_8062_GENE_328_SigP	17	0	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
1	UBA_LeptolII_Scaffold_8692_GENE_45_SigP	16	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
1	5way_CG_LeptolII_scaff_2_GENE_54_SigP	11	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
1	UBA_LeptolII_Scaffold_7931_GENE_191_SigP	13	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
1	5way_CG_LeptolII_scaff_27_GENE_13_SigP	16	0	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
1	UBA_LeptolII_Scaffold_7931_GENE_383_SigP	5	0	0	undefined product 441204:441656 forward # pl:7.12 MW:15956
1	5way_CG_LeptolII_scaff_41_GENE_9_SigP	5	0	0	hypothetical protein 1181714:1182166 reverse # pl:7.84 MW:15936
1	5way_CG_LeptolII_scaff_42_GENE_24_SigP	12	0	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
1	UBA_LeptolII_Scaffold_8241_GENE_544_SigP	4	0	0	Hypothetical protein 522023:522568 forward # pl:9.54 MW:20235
1	5way_CG_LeptolII_scaff_6_GENE_46_SigP	12	3	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
1	UBA_LeptolIII_332_4_SigP	2	0	0	(-) # pl:8.60 MW:14958
1	UBA_LeptolIII_399_94_SigP	12	0	0	(-) # pl:4.49 MW:57767
1	UBA_LeptolII_Scaffold_8524_GENE_165_SigP	13	0	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
1	UBA_LeptolIII_394_18_SigP	5	1	0	(C - Cytochrome c) # pl:9.67 MW:28371
1	5way_CG_LeptolII_scaff_96_GENE_12_SigP	7	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
1	UBA_LeptolII_Scaffold_8135_GENE_81_SigP	6	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
1	UBA_LeptolII_Scaffold_8049_GENE_3_SigP	6	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
1	5way_CG_LeptolII_scaff_25_GENE_2_SigP	6	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
1	5way_CG_LeptolII_scaff_120_GENE_14_SigP	6	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
1	UBA_LeptolII_Scaffold_7931_GENE_349_SigP	41	0	0	Hypothetical protein 403648:404268 reverse # pl:6.14 MW:22293
1	5way_CG_LeptolII_scaff_86_GENE_19_SigP	41	0	0	hypothetical protein 1861083:1861703 reverse # pl:6.14 MW:22162
1	5way_CG_LeptolII_scaff_96_GENE_6_SigP	8	3	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
1	5way_CG_LeptolII_scaff_30_GENE_28_SigP	15	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
1	UBA_LeptolIII_398_120_SigP	6	0	0	(-) # pl:9.55 MW:20727
1	UBA_LeptolII_Scaffold_8241_GENE_295_SigP	12	0	0	Hypothetical protein 274121:274495 forward # pl:9.10 MW:13221
1	5way_CG_LeptolII_scaff_167_GENE_10_SigP	27	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
1	UBA_LeptolIII_353_6_SigP	3	0	0	(O - Thiol-disulfide isomerase and thioredoxins) # pl:9.78 MW:20913
1	UBA_LeptolII_Scaffold_8692_GENE_5_SigP	22	0	0	Hypothetical protein 4993:5544 forward # pl:10.17 MW:19972
1	UBA_LeptolIII_376_10_SigP	7	1	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:11.35 MW:36547
1	5way_CG_LeptolII_scaff_4_GENE_7_SigP	8	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
1	UBA_LeptolIII_370_17_SigP	6	2	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:10.30 MW:28861
1	UBA_LeptolIII_354_17_SigP	3	2	0	(-) # pl:4.40 MW:32620
1	UBA_LeptolIII_382_22_SigP	8	0	0	(U - Periplasmic component of the Tol biopolymer transport system) # pl:9.05 MW:48786
1	UBA_LeptolII_Scaffold_8062_GENE_268_SigP	10	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
1	UBA_LeptolIII_395_61_SigP	10	0	0	(-) # pl:9.73 MW:17490
1	5way_CG_LeptolII_scaff_265_GENE_14_SigP	10	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
1	UBA_LeptolII_Scaffold_8241_GENE_55_SigP	6	0	0	Conserved hypothetical protein 53795:55249 reverse # pl:8.85 MW:54208
1	UBA_LeptolIII_398_36_SigP	3	0	0	(-) # pl:7.93 MW:16526
1	5way_CG_LeptolII_scaff_94_GENE_5_SigP	27	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
1	UBA_LeptolIII_334_11_SigP	4	0	0	(-) # pl:4.68 MW:19133
1	UBA_LeptolII_Scaffold_8524_GENE_127_SigP	20	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pl:9.38 MW:87643
1	5way_CG_LeptolII_scaff_6_GENE_20_SigP	20	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
1	UBA_LeptolII_Scaffold_8062_GENE_236_SigP	13	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
1	UBA_LeptolIII_395_29_SigP	13	0	0	(-) # pl:9.79 MW:70443
1	Unass_bact_scaff_1152_GENE_4_SigP	3	0	0	- # Function: Hypothetical protein # pl:4.54 MW:27258
1	UBA_LeptolIII_394_7_SigP	3	0	0	(-) # pl:4.70 MW:28104
1	UBA_LeptolII_Scaffold_8062_GENE_133_SigP	7	0	0	Hypothetical protein 138306:138929 forward # pl:9.11 MW:23422
1	UBA_LeptolII_Scaffold_8524_GENE_101_SigP	10	0	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
1	UBA_LeptolII_Scaffold_8241_GENE_85_SigP	6	0	0	Putative secretion protein 84770:85819 reverse # pl:9.82 MW:37009
1	UBA_LeptolII_Scaffold_7931_GENE_281_SigP	7	0	0	Periplasmic protein involved in polysaccharide ex port 311387:312244 reverse # pl:9.91 MW:31407
1	5way_CG_LeptolII_scaff_7_GENE_28_SigP	7	0	0	polysaccharide transport 4455948:456805 reverse # pl:9.72 MW:31514
1	UBA_LeptolIII_388_19_SigP	6	0	0	(-) # pl:9.71 MW:22830
1	5way_CG_LeptolII_scaff_48_GENE_7_SigP	4	0	0	hypothetical protein 1405849:1406394 reverse # pl:9.64 MW:20256
1	5way_CG_LeptolII_scaff_59_GENE_29_SigP	9	0	0	outer membrane efflux protein 1555634:1557010 forward # pl:8.91 MW:51472
1	UBA_LeptolII_Scaffold_7931_GENE_128_SigP	9	0	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
1	5way_CG_LeptolII_scaff_186_GENE_4_SigP	9	0	0	general secretion pathway GspD 2193892:2195559 forward # pl:9.57 MW:59267
1	UBA_LeptolIII_397_86_SigP	3	0	0	(-) # pl:8.92 MW:22518
1	5way_CG_LeptolII_scaff_22_GENE_28_SigP	3	0	0	hypothetical protein 794184:794561 reverse # pl:10.83 MW:14375
1	fer1_scaff_58_GENE_10_SigP	3	0	0	# Gene_name: Mdh # Function: Malate/lactate dehydrogenases # e-123 # pl:5.75 MW:34719
1	5way_CG_LeptolII_scaff_32_GENE_52_SigP	9	0	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
1	5way_CG_LeptolII_scaff_3_GENE_47_SigP	3	0	0	peptidase, M23/M37 family 183484:184374 reverse # pl:10.45 MW:32357
1	UBA_LeptolIII_343_2_SigP	5	0	0	(M - Outer membrane protein) # pl:6.25 MW:49966
1	UBA_LeptolIII_390_44_SigP	32	0	0	(-) # pl:7.72 MW:17434
1	UBA_LeptolIII_371_18_SigP	5	0	0	(-) # pl:10.17 MW:18791
1	UBA_LeptolII_Scaffold_8049_GENE_109_SigP	2	0	0	Hypothetical protein 103611:104141 forward # pl:9.51 MW:19740
1	5way_CG_LeptolII_scaff_23_GENE_41_SigP	2	0	0	hypothetical protein 865371:865901 forward # pl:9.51 MW:19771
1	UBA_LeptolIII_317_6_SigP	3	0	0	(C - Pyruvate:ferredoxin oxidoreductase and related 2-oxoacid:ferredoxin oxidoreductases, gamma subunit) # pl:8.83 MW:25186
1	Unass_bact_scaff_1043_GENE_3_SigP	3	0	0	- # Function: Hypothetical protein # pl:9.28 MW:17946
1	UBA_LeptolII_Scaffold_8027_GENE_55_SigP	4	0	0	FOG 55616:56380 forward # pl:9.75 MW:29641
1	5way_CG_LeptolII_scaff_2_GENE_44_SigP	7	0	0	soluble lytic transglycosylase 48347:50407 reverse # pl:10.33 MW:77488
1	UBA_LeptolII_Scaffold_8241_GENE_570_SigP	16	0	0	Outer membrane protein 555547:557019 forward # pl:9.35 MW:54952
1	UBA_LeptolIII_397_88_SigP	3	0	0	(N - Flagellar basal-body P-ring protein) # pl:10.90 MW:37210

1	gpl_scaff_198_GENE_2_SigP	4	0	0	# Gene_name: FixC # Function: Dehydrogenases (flavoproteins) # e-36 # pl:6.27 MW:44603
1	UBA_Leptoll_Scaffold_8049_GENE_190_SigP	3	0	0	Hypothetical protein 189991:190548 reverse # pl:5.63 MW:20533
1	5way_CG_Leptoll_scaff_511_GENE_5_SigP	3	0	0	hypothetical protein 2634648:2635205 forward # pl:5.63 MW:20533
1	UBA_Leptoll_Scaffold_8049_GENE_375_SigP	3	0	0	undefined product 357444:357965 forward # pl:9.75 MW:19619
1	UBA_LeptollIII_355_9_SigP	4	0	0	(S - Uncharacterized conserved protein) # pl:9.46 MW:33323
1	UBA_LeptollIII_398_127_SigP	9	1	0	(M - Outer membrane protein) # pl:9.46 MW:53453
1	UBA_Leptoll_Scaffold_7931_GENE_123_SigP	6	0	0	Cytochrome c 128461:129270 forward # pl:9.68 MW:29622
1	5way_CG_Leptoll_scaff_46_GENE_28_SigP	6	0	0	cytochrome c 1396147:1396956 forward # pl:9.68 MW:29622
1	UBA_LeptollIII_399_67_SigP	3	0	0	(-) # pl:4.43 MW:20384
1	UBA_LeptollIII_366_6_SigP	2	0	0	(-) # pl:5.25 MW:26621
1	UBA_LeptollIII_375_22_SigP	5	0	0	(-) # pl:9.61 MW:31051
1	UBA_LeptollIII_399_122_SigP	3	0	0	(-) # pl:5.36 MW:16668
1	fer1_scaff_300_GENE_5_SigP	3	0	0	# Gene_name: FadB # Function: 3-Hydroxyacyl-CoA dehydrogenase # e-118 # pl:5.47 MW:71148
1	5way_CG_Leptoll_scaff_53_GENE_11_SigP	5	0	0	hypothetical protein 1475234:1476562 reverse # pl:9.99 MW:49997
1	5way_CG_Leptoll_scaff_141_GENE_14_SigP	2	0	0	serine protease 2055358:2056338 reverse # pl:10.66 MW:35079
1	UBA_Leptoll_Scaffold_7931_GENE_220_SigP	3	0	0	Hypothetical protein 236125:236823 forward # pl:9.47 MW:25625
1	UBA_LeptollIII_364_29_SigP	4	0	0	(P - Cytochrome c peroxidase) # pl:9.51 MW:36728
1	5way_CG_Leptoll_scaff_51_GENE_24_SigP	10	0	0	TonB-dependent receptor 1462305:1465229 reverse # pl:5.09 MW:104765
1	UBA_Leptoll_Scaffold_8692_GENE_75_SigP	11	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
1	UBA_Leptoll_Scaffold_8241_GENE_690_SigP	16	0	0	Hypothetical protein 681251:682891 forward # pl:4.70 MW:59054
1	5way_CG_Leptoll_scaff_32_GENE_24_SigP	24	0	0	hypothetical protein 1095187:1095858 forward # pl:4.69 MW:23690
1	UBA_LeptollIII_394_19_SigP	3	0	0	(C - Cytochrome c553) # pl:9.88 MW:26137
1	UBA_Leptoll_Scaffold_7931_GENE_121_SigP	2	0	0	Cytochrome c553 126894:127571 forward # pl:9.77 MW:24552
1	5way_CG_Leptoll_scaff_46_GENE_26_SigP	2	0	0	cytochrome c 1394580:1395257 forward # pl:9.77 MW:24552
1	UBA_Leptoll_Scaffold_8692_GENE_129_SigP	4	0	0	Uncharacterized NAD(FAD)-dependent dehydrogenases 123535:124674 reverse # pl:7.78 MW:42008
1	5way_CG_Leptoll_scaff_271_GENE_3_SigP	4	0	0	flavoprotein oxidoreductase 2359237:2360376 reverse # pl:7.21 MW:42034
1	UBA_Leptoll_Scaffold_8062_GENE_44_SigP	3	0	0	Hypothetical protein 44570:45088 forward # pl:11.13 MW:19316
1	UBA_Leptoll_Scaffold_7931_GENE_377_SigP	2	0	0	undefined product 432399:433847 forward # pl:4.30 MW:52721
1	5way_CG_Leptoll_scaff_41_GENE_16_SigP	2	0	0	hypothetical protein 1189524:1190972 reverse # pl:4.22 MW:52723
1	UBA_LeptollIII_378_23_SigP	11	1	0	(M - N-acetylmuramoyl-L-alanine amidase) # pl:11.03 MW:51742
1	UBA_Leptoll_Scaffold_8241_GENE_337_SigP	2	0	0	Peptidase M23/M37 family 319746:320636 reverse # pl:10.67 MW:32300
1	UBA_Leptoll_Scaffold_8241_GENE_149_SigP	46	0	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
1	UBA_LeptollIII_388_7_SigP	2	0	0	(O - Parvulin-like peptidyl-prolyl isomerase) # pl:9.83 MW:31994
1	UBA_Leptoll_Scaffold_8692_GENE_161_SigP	4	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
1	UBA_Leptoll_Scaffold_8027_GENE_49_SigP	5	3	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pl:9.05 MW:50054
1	UBA_LeptollIII_374_9_SigP	2	0	0	(R - Uncharacterized NAD(FAD)-dependent dehydrogenases) # pl:8.31 MW:42014
1	5way_CG_Leptoll_scaff_22_GENE_33_SigP	7	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
1	UBA_Leptoll_Scaffold_8241_GENE_119_SigP	3	0	0	Putative histidine kinase 116577:118217 forward # pl:6.83 MW:60830
1	UBA_LeptollIII_379_16_SigP	5	0	0	(-) # pl:9.95 MW:71809
1	UBA_Leptoll_Scaffold_8062_GENE_114_SigP	8	0	0	Outer membrane receptor for Fe3+-dicitrate 108626:111550 forward # pl:5.10 MW:104983
1	UBA_Leptoll_Scaffold_8241_GENE_254_SigP	4	0	0	Outer membrane efflux protein 239540:240916 reverse # pl:8.91 MW:51398
1	UBA_LeptollIII_391_18_SigP	8	0	0	(-) # pl:4.44 MW:33956
1	UBA_LeptollIII_362_23_SigP	2	0	0	(M - Outer membrane protein) # pl:7.76 MW:52412
1	UBA_LeptollIII_393_1_SigP	2	0	0	(-) # pl:9.86 MW:24847
1	UBA_Leptoll_Scaffold_8062_GENE_264_SigP	5	0	0	undefined product 270540:271802 forward # pl:5.82 MW:46323
1	UBA_LeptollIII_395_57_SigP	5	0	0	(-) # pl:5.82 MW:46323
1	UBA_Leptoll_Scaffold_8692_GENE_159_SigP	2	0	0	Hypothetical protein 155900:156457 reverse # pl:5.84 MW:20310
1	5way_CG_Leptoll_scaff_53_GENE_23_SigP	2	0	0	hypothetical protein 1493027:1493584 reverse # pl:6.10 MW:20271
1	UBA_LeptollIII_397_17_SigP	8	0	0	(C - Cytochrome c, mono- and diheme variants) # pl:8.76 MW:75626
1	UBA_Leptoll_Scaffold_7931_GENE_181_SigP	3	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pl:10.33 MW:77941
1	UBA_Leptoll_Scaffold_8241_GENE_103_SigP	3	0	0	undefined product 104291:105808 reverse # pl:4.37 MW:54784
1	5way_CG_Leptoll_scaff_32_GENE_36_SigP	3	0	0	hypothetical protein 1104400:1105929 forward # pl:4.32 MW:55077
1	5way_CG_Leptoll_scaff_53_GENE_17_SigP	4	0	0	hypothetical protein 1482065:1483813 reverse # pl:10.58 MW:67070
1	UBA_Leptoll_Scaffold_7931_GENE_122_SigP	3	0	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
1	5way_CG_Leptoll_scaff_46_GENE_27_SigP	3	0	0	cytochrome c 1395273:1396082 forward # pl:9.97 MW:29736
1	fer2_scaff_12_GENE_37_SigP	3	0	0	- # Function: Hypothetical protein # pl:8.94 MW:32472
1	UBA_Leptoll_Scaffold_8241_GENE_524_SigP	3	0	0	Parvulin-like peptidyl-prolyl isomerase 502388:503257 reverse # pl:9.96 MW:32363
1	5way_CG_Leptoll_scaff_48_GENE_30_SigP	3	0	0	peptidyl-prolyl cis-trans isomerase 1425137:1426006 forward # pl:9.84 MW:32345
1	UBA_Leptoll_Scaffold_8241_GENE_622_SigP	3	0	0	undefined product 605569:606864 forward # pl:9.70 MW:46793
1	5way_CG_Leptoll_scaff_13_GENE_45_SigP	3	0	0	hypothetical protein 621213:622508 reverse # pl:9.49 MW:46508
1	UBA_Leptoll_Scaffold_8692_GENE_42_SigP	2	0	0	Signal transduction histidine kinase 43733:45523 reverse # pl:8.99 MW:67700
1	5way_CG_Leptoll_scaff_865_GENE_1_SigP	3	0	0	hypothetical protein 2820338:2820835 forward # pl:4.07 MW:17740
1	UBA_Leptoll_Scaffold_7931_GENE_311_SigP	2	0	0	FOG 348657:351887 forward # pl:9.10 MW:118365
1	5way_CG_Leptoll_scaff_32_GENE_21_SigP	2	0	0	sensor histidine kinase 1091875:1093515 reverse # pl:6.85 MW:60921
1	UBA_Leptoll_Scaffold_7931_GENE_347_SigP	2	0	0	Hypothetical protein 402145:403218 reverse # pl:8.65 MW:39325
1	UBA_Leptoll_Scaffold_8692_GENE_147_SigP	2	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
1	UBA_Leptoll_Scaffold_8524_GENE_225_SigP	2	0	0	Hypothetical protein 208344:209684 forward # pl:7.25 MW:49701
1	5way_CG_Leptoll_scaff_8_GENE_45_SigP	2	0	0	hypothetical protein 542550:543890 forward # pl:7.23 MW:49929
1	UBA_LeptollIII_391_22_SigP	2	0	0	(R - FOG: TPR repeat) # pl:8.84 MW:118396
1	Unass_arch_scaff_525_GENE_5_SigP	2	0	0	- # Function: Hypothetical protein # pl:8.03 MW:70772

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB Front Sample Set - Run 2

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
2	5way_CG_Leptoll_scaff_689_GENE_3_SigP	20	1	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
2	UBA_LeptollI_394_71_SigP	20	1	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
2	UBA_LeptollI_336_16_SigP	51	2	0	(-) # pl:9.75 MW:19719
2	UBA_LeptollI_351_1_SigP	51	2	0	(-) # pl:9.75 MW:19719
2	UBA_LeptollI_Scaffold_8049_GENE_366_SigP	133	1	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
2	5way_CG_Leptoll_scaff_23_GENE_15_SigP	92	19	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
2	UBA_LeptollI_Scaffold_8049_GENE_83_SigP	93	19	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
2	5way_CG_Leptoll_scaff_6_GENE_19_SigP	255	25	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
2	UBA_LeptollI_Scaffold_8524_GENE_249_SigP	197	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
2	5way_CG_Leptoll_scaff_141_GENE_2_SigP	47	1	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
2	5way_CG_Leptoll_scaff_81_GENE_24_SigP	134	8	0	(-) # pl:10.05 MW:15038
2	UBA_LeptollI_314_4_SigP	134	8	0	(-) # pl:10.05 MW:15038
2	Unass_bact_scaff_1131_GENE_3_SigP	51	1	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
2	UBA_LeptollI_Scaffold_8241_GENE_297_SigP	197	4	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
2	UBA_LeptollI_Scaffold_8524_GENE_128_SigP	237	25	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
2	UBA_LeptollI_Scaffold_8524_GENE_248_SigP	53	4	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
2	5way_CG_Leptoll_scaff_3_GENE_4_SigP	201	5	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
2	5way_CG_Leptoll_scaff_62_GENE_10_SigP	102	7	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
2	UBA_LeptollI_Scaffold_8241_GENE_238_SigP	153	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
2	5way_CG_Leptoll_scaff_141_GENE_3_SigP	196	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
2	UBA_LeptollI_Scaffold_8241_GENE_56_SigP	114	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
2	5way_CG_Leptoll_scaff_21_GENE_26_SigP	114	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
2	UBA_LeptollI_Scaffold_8062_GENE_53_SigP	142	8	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
2	5way_CG_Leptoll_scaff_4_GENE_16_SigP	195	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
2	UBA_LeptollI_390_49_SigP	64	7	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
2	UBA_LeptollI_399_60_SigP	80	9	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
2	5way_CG_Leptoll_scaff_45_GENE_15_SigP	126	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
2	UBA_LeptollI_361_11_SigP	125	0	0	(-) # pl:9.66 MW:26334
2	UBA_LeptollI_Scaffold_8135_GENE_9_SigP	93	7	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
2	5way_CG_Leptoll_scaff_8_GENE_23_SigP	24	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
2	5way_CG_Leptoll_scaff_41_GENE_27_SigP	51	1	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
2	5way_CG_Leptoll_scaff_98_GENE_12_SigP	117	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
2	UBA_LeptollI_398_2_SigP	82	1	0	(-) # pl:10.81 MW:15675
2	UBA_LeptollI_Scaffold_8062_GENE_34_SigP	102	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
2	UBA_LeptollI_Scaffold_8524_GENE_201_SigP	24	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
2	UBA_LeptollI_Scaffold_7931_GENE_365_SigP	46	3	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
2	UBA_LeptollI_388_1_SigP	63	4	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
2	UBA_LeptollI_375_20_SigP	9	0	0	(-) # pl:9.30 MW:13970
2	5way_CG_Leptoll_scaff_43_GENE_14_SigP	45	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
2	UBA_LeptollI_391_4_SigP	58	0	0	(-) # pl:10.15 MW:22759
2	UBA_LeptollI_376_11_SigP	47	0	0	(-) # pl:7.90 MW:21402
2	UBA_LeptollI_356_3_SigP	22	3	0	(-) # pl:6.60 MW:24706
2	5way_CG_Leptoll_scaff_96_GENE_7_SigP	61	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
2	UBA_LeptollI_Scaffold_8027_GENE_50_SigP	60	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
2	UBA_LeptollI_391_6_SigP	2	0	0	(-) # pl:9.46 MW:11977
2	UBA_LeptollI_373_5_SigP	76	0	0	(-) # pl:9.91 MW:21663
2	UBA_LeptollI_399_92_SigP	114	13	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
2	UBA_LeptollI_398_122_SigP	20	2	0	(-) # pl:9.92 MW:13689
2	5way_CG_Leptoll_scaff_374_GENE_7_SigP	91	20	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
2	UBA_LeptollI_Scaffold_8241_GENE_153_SigP	91	20	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
2	5way_CG_Leptoll_scaff_25_GENE_47_SigP	11	1	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
2	UBA_LeptollI_361_10_SigP	59	2	0	(-) # pl:9.57 MW:54911
2	5way_CG_Leptoll_scaff_98_GENE_11_SigP	37	1	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
2	UBA_LeptollI_Scaffold_8241_GENE_565_SigP	37	0	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
2	UBA_LeptollI_Scaffold_8241_GENE_114_SigP	103	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
2	UBA_LeptollI_Scaffold_8241_GENE_121_SigP	113	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
2	UBA_LeptollI_Scaffold_8241_GENE_298_SigP	151	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
2	5way_CG_Leptoll_scaff_3_GENE_5_SigP	153	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
2	UBA_LeptollI_Scaffold_8049_GENE_48_SigP	12	1	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
2	5way_CG_Leptoll_scaff_80_GENE_22_SigP	26	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
2	UBA_LeptollI_382_13_SigP	35	0	0	(-) # pl:9.79 MW:36778
2	UBA_LeptollI_394_70_SigP	104	17	0	(-) # pl:10.49 MW:18094
2	UBA_LeptollI_Scaffold_8049_GENE_209_SigP	27	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
2	5way_CG_Leptoll_scaff_86_GENE_17_SigP	16	1	0	hypothetical protein 1859523:1860593 reverse # pl:9.14 MW:39110
2	UBA_LeptollI_394_29_SigP	30	1	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
2	UBA_LeptollI_Scaffold_8062_GENE_32_SigP	31	1	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432

2	UBA_LeptolIII_361_9_SigP	23	0	0	(-) # pI:9.43 MW:25462
2	5way_CG_LeptolII_scaff_96_GENE_14_SigP	46	0	0	hypothetical protein 1916026:1917033 forward # pI:9.64 MW:37515
2	5way_CG_LeptolII_scaff_333_GENE_9_SigP	22	0	0	hypothetical protein 2480782:2481156 forward # pI:8.76 MW:13268
2	UBA_LeptolII_Scaffold_8241_GENE_295_SigP	10	0	0	Hypothetical protein 274121:274495 forward # pI:9.10 MW:13221
2	5way_CG_LeptolII_scaff_32_GENE_19_SigP	108	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pI:10.01 MW:54114
2	UBA_LeptolII_Scaffold_8241_GENE_349_SigP	169	0	0	Hypothetical protein 332163:332660 reverse # pI:9.85 MW:19313
2	5way_CG_LeptolII_scaff_48_GENE_32_SigP	31	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pI:9.57 MW:39326
2	UBA_LeptolIII_364_1_SigP	144	0	0	(-) # pI:10.85 MW:12350
2	UBA_LeptolII_Scaffold_8524_GENE_197_SigP	26	0	0	undefined product 184564:184965 forward # pI:8.76 MW:14241
2	UBA_LeptolIII_382_21_SigP	44	0	0	(S - Uncharacterized protein conserved in bacteria) # pI:9.37 MW:30574
2	UBA_LeptolII_Scaffold_7931_GENE_87_SigP	36	0	0	Hypothetical protein 84624:84986 reverse # pI:8.80 MW:13441
2	5way_CG_LeptolII_scaff_66_GENE_21_SigP	36	0	0	hypothetical protein 1603957:1604319 reverse # pI:8.80 MW:13441
2	5way_CG_LeptolII_scaff_86_GENE_7_SigP	28	0	0	hypothetical protein 1849704:1850654 reverse # pI:10.22 MW:34372
2	UBA_LeptolIII_384_12_SigP	23	0	0	(-) # pI:10.43 MW:24691
2	UBA_LeptolII_Scaffold_8049_GENE_192_SigP	104	1	0	Hypothetical protein 192241:193704 reverse # pI:10.09 MW:49541
2	5way_CG_LeptolII_scaff_42_GENE_34_SigP	44	0	0	zinc-dependent peptidase 1239842:1241287 forward # pI:9.07 MW:52126
2	UBA_LeptolIII_397_16_SigP	41	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pI:9.97 MW:35837
2	5way_CG_LeptolII_scaff_21_GENE_20_SigP	37	0	0	hypothetical protein 728920:729237 forward # pI:9.18 MW:11040
2	UBA_LeptolII_Scaffold_8241_GENE_348_SigP	57	0	0	Putative outer membrane protein 330572:332062 reverse # pI:10.01 MW:54255
2	UBA_LeptolII_Scaffold_8241_GENE_522_SigP	30	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pI:9.50 MW:39460
2	5way_CG_LeptolII_scaff_21_GENE_56_SigP	49	1	0	Hypothetical protein 79750:80097 forward # pI:10.42 MW:12456
2	UBA_LeptolII_Scaffold_8241_GENE_81_SigP	49	1	0	Hypothetical protein 79750:80097 forward # pI:10.42 MW:12456
2	5way_CG_LeptolII_scaff_120_GENE_4_SigP	26	0	0	efflux protein, CzcB 1968652:1969776 reverse # pI:9.89 MW:41685
2	5way_CG_LeptolII_scaff_178_GENE_9_SigP	7	5	0	Hypothetical protein 311829:312233 forward # pI:9.92 MW:13785
2	UBA_LeptolII_Scaffold_8049_GENE_321_SigP	7	5	0	Hypothetical protein 311829:312233 forward # pI:9.92 MW:13785
2	Unass_bact_scaff_920_GENE_3_SigP	28	1	0	- # Function: Hypothetical protein # pI:10.38 MW:47244
2	5way_CG_LeptolII_scaff_511_GENE_2_SigP	84	1	0	hypothetical protein 2631437:2632783 forward # pI:10.13 MW:38584
2	UBA_LeptolII_Scaffold_8241_GENE_693_SigP	115	6	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pI:9.63 MW:40722
2	5way_CG_LeptolII_scaff_98_GENE_10_SigP	21	0	0	hypothetical protein 1933888:1934532 forward # pI:9.80 MW:24317
2	UBA_LeptolII_Scaffold_7931_GENE_16_SigP	16	0	0	Hypothetical protein 12313:12933 reverse # pI:9.26 MW:23588
2	5way_CG_LeptolII_scaff_428_GENE_6_SigP	16	0	0	hypothetical protein 2557294:2557914 reverse # pI:9.26 MW:23588
2	5way_CG_LeptolII_scaff_3_GENE_58_SigP	145	0	0	hypothetical protein 195897:196394 reverse # pI:9.95 MW:19355
2	UBA_LeptolII_Scaffold_8135_GENE_71_SigP	25	0	0	Membrane-fusion protein 73288:74412 reverse # pI:9.93 MW:41761
2	5way_CG_LeptolII_scaff_175_GENE_9_SigP	14	1	0	hypothetical protein 2146858:2147289 forward # pI:11.04 MW:15746
2	UBA_LeptolIII_399_123_SigP	15	0	0	(-) # pI:9.93 MW:19208
2	5way_CG_LeptolII_scaff_21_GENE_53_SigP	19	0	0	hypothetical protein 759903:760511 reverse # pI:9.47 MW:21658
2	5way_CG_LeptolII_scaff_32_GENE_25_SigP	102	0	0	hypothetical protein 1096463:1097521 forward # pI:6.75 MW:37452
2	5way_CG_LeptolII_scaff_59_GENE_28_SigP	12	0	0	hypothetical protein 1554663:1555283 forward # pI:10.76 MW:22906
2	UBA_LeptolII_Scaffold_8241_GENE_32_SigP	40	0	0	Putative peptidase M16 27259:28704 forward # pI:9.11 MW:52194
2	UBA_LeptolII_Scaffold_8062_GENE_151_SigP	11	3	0	Hypothetical protein 158736:159437 reverse # pI:10.88 MW:26479
2	UBA_LeptolII_Scaffold_7931_GENE_112_SigP	23	0	0	Cytochrome c553 111886:112557 reverse # pI:9.81 MW:24159
2	5way_CG_LeptolII_scaff_46_GENE_17_SigP	23	0	0	soluble cytochrome cB/cytochrome c553 1379572:1380243 reverse # pI:9.81 MW:24159
2	5way_CG_LeptolII_scaff_27_GENE_13_SigP	34	0	0	hypothetical protein 989144:991072 reverse # pI:9.89 MW:71234
2	5way_CG_LeptolII_scaff_8_GENE_20_SigP	20	0	0	hypothetical protein 518693:519094 forward # pI:7.93 MW:14228
2	UBA_LeptolII_Scaffold_7931_GENE_338_SigP	24	0	0	FOG 392541:393491 reverse # pI:10.32 MW:34422
2	UBA_LeptolIII_399_64_SigP	21	0	0	(-) # pI:9.80 MW:25377
2	5way_CG_LeptolII_scaff_42_GENE_33_SigP	44	0	0	peptidase 1238384:1239814 forward # pI:9.34 MW:53756
2	UBA_LeptolIII_328_11_SigP	51	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pI:9.65 MW:18910
2	UBA_LeptolII_Scaffold_8524_GENE_269_SigP	11	1	0	Hypothetical protein 254042:254569 reverse # pI:11.25 MW:18589
2	5way_CG_LeptolII_scaff_4_GENE_2_SigP	19	1	0	cation efflux protein 241937:243079 forward # pI:8.48 MW:42084
2	UBA_LeptolIII_353_2_SigP	30	0	0	(-) # pI:9.33 MW:31803
2	UBA_LeptolII_Scaffold_7931_GENE_98_SigP	22	0	0	Hypothetical protein 96019:96525 forward # pI:9.43 MW:19616
2	5way_CG_LeptolII_scaff_297_GENE_4_SigP	22	0	0	hypothetical protein 2435158:2435664 reverse # pI:9.43 MW:19616
2	UBA_LeptolII_Scaffold_7931_GENE_97_SigP	11	0	0	Hypothetical protein 95055:95750 reverse # pI:8.82 MW:26173
2	5way_CG_LeptolII_scaff_297_GENE_5_SigP	11	0	0	hypothetical protein 2435933:2436628 forward # pI:8.82 MW:26173
2	UBA_LeptolIII_391_32_SigP	10	0	0	(M - Periplasmic protein involved in polysaccharide export) # pI:9.52 MW:31336
2	Unass_bact_scaff_1043_GENE_3_SigP	5	2	0	- # Function: Hypothetical protein # pI:9.28 MW:17946
2	UBA_LeptolIII_394_36_SigP	29	0	0	(-) # pI:6.54 MW:55063
2	UBA_LeptolII_Scaffold_8241_GENE_253_SigP	16	1	0	Putative secretion protein (HlyD) 238386:239528 reverse # pI:7.85 MW:42147
2	5way_CG_LeptolII_scaff_8_GENE_36_SigP	11	0	0	thiol disulfide isomerase 534913:535557 forward # pI:6.48 MW:23606
2	UBA_LeptolII_Scaffold_8027_GENE_57_SigP	44	0	0	Hypothetical protein 57498:58505 forward # pI:9.58 MW:37506
2	5way_CG_LeptolII_scaff_46_GENE_16_SigP	22	6	0	Cytochrome c 111006:111824 reverse # pI:10.25 MW:29786
2	UBA_LeptolII_Scaffold_7931_GENE_111_SigP	22	6	0	Cytochrome c 111006:111824 reverse # pI:10.25 MW:29786
2	5way_CG_LeptolII_scaff_14_GENE_26_SigP	11	3	0	hypothetical protein 669256:669939 reverse # pI:10.67 MW:25874
2	5way_CG_LeptolII_scaff_8_GENE_58_SigP	22	0	0	cytochrome c-551 558486:558818 reverse # pI:10.02 MW:11872
2	UBA_LeptolII_Scaffold_8524_GENE_235_SigP	18	0	0	Cytochrome c551/c552 219925:220257 reverse # pI:9.89 MW:11806
2	UBA_LeptolII_Scaffold_8241_GENE_298a_SigP	23	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pI:11.10 MW:25887
2	UBA_LeptolII_Scaffold_8241_GENE_256_SigP	11	0	0	Hypothetical protein 241268:241888 reverse # pI:10.64 MW:22967
2	UBA_LeptolII_Scaffold_8062_GENE_236_SigP	30	0	0	Hypothetical protein 244561:246489 reverse # pI:9.81 MW:71023

2	UBA_LeptolII_395_29_SigP	30	0	0	(-) # pl:9.79 MW:70443
2	5way_CG_LeptolII_scaff_2_GENE_49_SigP	17	4	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
2	UBA_LeptolII_Scaffold_7931_GENE_186_SigP	17	4	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
2	UBA_LeptolII_334_5_SigP	13	0	0	(-) # pl:10.11 MW:31964
2	5way_CG_LeptolII_scaff_69_GENE_29_SigP	8	0	0	hypothetical protein 1690146:1690733 forward # pl:6.65 MW:21276
2	5way_CG_LeptolII_scaff_22_GENE_18_SigP	32	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
2	UBA_LeptolII_Scaffold_8062_GENE_31_SigP	16	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
2	UBA_LeptolII_Scaffold_8524_GENE_216_SigP	11	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
2	UBA_LeptolII_398_127_SigP	19	2	0	(M - Outer membrane protein) # pl:9.46 MW:53453
2	5way_CG_LeptolII_scaff_3_GENE_6_SigP	21	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
2	UBA_LeptolII_394_10_SigP	23	2	0	(-) # pl:11.06 MW:18504
2	5way_CG_LeptolII_scaff_30_GENE_22_SigP	37	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
2	UBA_LeptolII_Scaffold_8692_GENE_69_SigP	9	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
2	5way_CG_LeptolII_scaff_30_GENE_6_SigP	9	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
2	UBA_LeptolII_Scaffold_8692_GENE_133_SigP	6	0	0	Hypothetical protein 127591:128046 forward # pl:9.36 MW:16779
2	5way_CG_LeptolII_scaff_271_GENE_7_SigP	6	0	0	hypothetical protein 2363290:2363745 forward # pl:9.40 MW:16789
2	5way_CG_LeptolII_scaff_32_GENE_52_SigP	24	3	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
2	5way_CG_LeptolII_scaff_376_GENE_6_SigP	4	1	0	hypothetical protein 2514094:2514462 reverse # pl:9.68 MW:13844
2	5way_CG_LeptolII_scaff_297_GENE_7_SigP	2	1	0	undefined product 93000:93377 forward # pl:6.24 MW:14033
2	UBA_LeptolII_Scaffold_7931_GENE_95_SigP	2	1	0	undefined product 93000:93377 forward # pl:6.24 MW:14033
2	UBA_LeptolII_Scaffold_8062_GENE_328_SigP	7	1	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
2	UBA_LeptolII_317_6_SigP	6	0	0	(C - Pyruvate:ferredoxin oxidoreductase and related 2-oxoacid:ferredoxin oxidoreductases, gamma subunit) # pl:8.83 MW:25186
2	UBA_LeptolII_Scaffold_8027_GENE_55_SigP	17	0	0	FOG 55616:56380 forward # pl:9.75 MW:29641
2	5way_CG_LeptolII_scaff_96_GENE_12_SigP	17	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
2	5way_CG_LeptolII_scaff_59_GENE_16_SigP	15	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
2	5way_CG_LeptolII_scaff_46_GENE_4_SigP	9	4	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
2	UBA_LeptolII_Scaffold_7931_GENE_101_SigP	9	4	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
2	5way_CG_LeptolII_scaff_96_GENE_6_SigP	19	3	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
2	UBA_LeptolII_394_52_SigP	12	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554
2	UBA_LeptolII_397_15_SigP	12	0	0	(-) # pl:9.26 MW:29303
2	UBA_LeptolII_Scaffold_8241_GENE_469_SigP	11	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
2	5way_CG_LeptolII_scaff_51_GENE_20_SigP	7	0	0	hypothetical protein 1459861:1460295 reverse # pl:9.38 MW:16001
2	UBA_LeptolII_Scaffold_8049_GENE_109_SigP	8	0	0	Hypothetical protein 103611:104141 forward # pl:9.51 MW:19740
2	5way_CG_LeptolII_scaff_23_GENE_41_SigP	8	0	0	hypothetical protein 865371:865901 forward # pl:9.51 MW:19771
2	5way_CG_LeptolII_scaff_14_GENE_50_SigP	17	0	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
2	UBA_LeptolII_385_32_SigP	4	0	0	(-) # pl:9.77 MW:20414
2	5way_CG_LeptolII_scaff_43_GENE_22_SigP	14	1	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
2	5way_CG_LeptolII_scaff_7_GENE_28_SigP	7	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
2	UBA_LeptolII_Scaffold_8241_GENE_270_SigP	13	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
2	5way_CG_LeptolII_scaff_473_GENE_6_SigP	40	0	0	hypothetical protein 2604173:2604670 reverse # pl:10.24 MW:18719
2	5way_CG_LeptolII_scaff_4_GENE_18_SigP	4	1	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
2	UBA_LeptolII_Scaffold_8241_GENE_236_SigP	4	1	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
2	5way_CG_LeptolII_scaff_62_GENE_1_SigP	20	0	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
2	UBA_LeptolII_377_5_SigP	12	0	0	(-) # pl:11.23 MW:25053
2	UBA_LeptolII_Scaffold_8062_GENE_173_SigP	13	0	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
2	UBA_LeptolII_Scaffold_7931_GENE_352_SigP	7	0	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
2	5way_CG_LeptolII_scaff_630_GENE_6_SigP	117	0	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
2	5way_CG_LeptolII_scaff_6_GENE_46_SigP	27	0	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
2	UBA_LeptolII_399_94_SigP	27	0	0	(-) # pl:4.49 MW:57767
2	UBA_LeptolII_393_44_SigP	11	0	0	(-) # pl:9.02 MW:37913
2	5way_CG_LeptolII_scaff_27_GENE_41_SigP	29	0	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
2	5way_CG_LeptolII_scaff_22_GENE_28_SigP	3	0	0	hypothetical protein 794184:794561 reverse # pl:10.83 MW:14375
2	5way_CG_LeptolII_scaff_43_GENE_19_SigP	29	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
2	UBA_LeptolII_388_7_SigP	8	0	0	(O - Parvulin-like peptidyl-prolyl isomerase) # pl:9.83 MW:31994
2	5way_CG_LeptolII_scaff_27_GENE_38_SigP	2	0	0	hypothetical protein 1013019:1013585 reverse # pl:9.41 MW:20674
2	UBA_LeptolII_320_1_SigP	2	1	0	(-) # pl:4.92 MW:22809
2	UBA_LeptolII_355_4_SigP	9	0	0	(-) # pl:6.59 MW:21586
2	UBA_LeptolII_371_18_SigP	9	0	0	(-) # pl:10.17 MW:18791
2	UBA_LeptolII_378_9_SigP	31	0	0	(R - FOG: TPR repeat) # pl:9.56 MW:86065
2	UBA_LeptolII_Scaffold_7931_GENE_281_SigP	6	0	0	Periplasmic protein involved in polysaccharide ex port 311387:312244 reverse # pl:9.91 MW:31407
2	UBA_LeptolII_Scaffold_7931_GENE_349_SigP	10	0	0	Hypothetical protein 403648:404268 reverse # pl:6.14 MW:22293
2	5way_CG_LeptolII_scaff_86_GENE_19_SigP	10	0	0	hypothetical protein 1861083:1861703 reverse # pl:6.14 MW:22162
2	UBA_LeptolII_Scaffold_8241_GENE_573_SigP	14	0	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
2	UBA_LeptolII_397_88_SigP	9	0	0	(N - Flagellar basal-body P-ring protein) # pl:10.90 MW:37210
2	5way_CG_LeptolII_scaff_2_GENE_54_SigP	9	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
2	UBA_LeptolII_Scaffold_7931_GENE_191_SigP	14	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
2	5way_CG_LeptolII_scaff_25_GENE_41_SigP	3	0	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
2	5way_CG_LeptolII_scaff_45_GENE_1_SigP	5	0	0	hypothetical protein 1327401:1327739 forward # pl:8.96 MW:11861
2	UBA_LeptolII_Scaffold_8524_GENE_101_SigP	25	0	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
2	UBA_LeptolII_Scaffold_8049_GENE_426_SigP	3	0	0	Hypothetical protein 396871:397269 forward # pl:10.45 MW:14887

2	UBA_LeptolIII_393_1_SigP	7	0	0	(-) # pI:9.86 MW:24847
2	5way_CG_LeptolIII_scaff_13_GENE_57_SigP	13	0	0	hypothetical protein 633696:634211 reverse # pI:9.45 MW:19141
2	UBA_LeptolIII_Scaffold_8241_GENE_690_SigP	24	0	0	Hypothetical protein 681251:682891 forward # pI:4.70 MW:59054
2	5way_CG_LeptolIII_scaff_48_GENE_7_SigP	6	0	0	hypothetical protein 1405849:1406394 reverse # pI:9.64 MW:20256
2	UBA_LeptolIII_Scaffold_7931_GENE_128_SigP	11	0	0	Type II secretory pathway, component PulD 133331:134998 forward # pI:9.57 MW:59267
2	5way_CG_LeptolIII_scaff_186_GENE_4_SigP	11	0	0	general secretion pathway GspD 2193892:2195559 forward # pI:9.57 MW:59267
2	UBA_LeptolIII_Scaffold_8692_GENE_49_SigP	28	0	0	FOG 51650:53845 reverse # pI:9.71 MW:84153
2	Unass_bact_scaff_903_GENE_5_SigP	3	0	0	- # Function: Hypothetical protein # pI:10.40 MW:13091
2	UBA_LeptolIII_374_3_SigP	10	0	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pI:6.28 MW:23245
2	UBA_LeptolIII_364_29_SigP	8	0	0	(P - Cytochrome c peroxidase) # pI:9.51 MW:36728
2	UBA_LeptolIII_Scaffold_8049_GENE_47_SigP	10	0	0	Hypothetical protein 37752:38414 reverse # pI:9.93 MW:24100
2	UBA_LeptolIII_Scaffold_8027_GENE_49_SigP	12	3	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pI:9.05 MW:50054
2	UBA_LeptolIII_396_5_SigP	9	0	0	(C - Cytochrome c) # pI:9.57 MW:30607
2	UBA_LeptolIII_Scaffold_8062_GENE_96_SigP	4	0	0	Hypothetical protein 91810:92214 forward # pI:9.91 MW:15955
2	UBA_LeptolIII_352_3_SigP	9	0	0	(-) # pI:10.55 MW:21019
2	UBA_LeptolIII_Scaffold_8241_GENE_570_SigP	28	0	0	Outer membrane protein 555547:557019 forward # pI:9.35 MW:54952
2	UBA_LeptolIII_388_39_SigP	9	0	0	(O - Thiol-disulfide isomerase and thioredoxins) # pI:6.21 MW:38783
2	5way_CG_LeptolIII_scaff_287_GENE_4_SigP	4	0	0	hypothetical protein 2399359:2399979 reverse # pI:8.69 MW:22528
2	UBA_LeptolIII_399_122_SigP	7	0	0	(-) # pI:5.36 MW:16668
2	UBA_LeptolIII_394_19_SigP	4	0	0	(C - Cytochrome c553) # pI:9.88 MW:26137
2	UBA_LeptolIII_Scaffold_8049_GENE_42a_SigP	2	0	0	Hypothetical protein 34331:34687 reverse # pI:9.86 MW:13687
2	5way_CG_LeptolIII_scaff_53_GENE_11_SigP	10	0	0	hypothetical protein 1475234:1476562 reverse # pI:9.99 MW:49997
2	5way_CG_LeptolIII_scaff_98_GENE_16_SigP	23	0	0	hypothetical protein 1939943:1940773 reverse # pI:5.20 MW:28369
2	5way_CG_LeptolIII_scaff_167_GENE_7_SigP	24	0	0	hypothetical protein 2094828:2096972 reverse # pI:8.62 MW:78226
2	UBA_LeptolIII_Scaffold_8062_GENE_118_SigP	5	0	0	Hypothetical protein 113559:113984 forward # pI:8.69 MW:15425
2	UBA_LeptolIII_398_120_SigP	9	0	0	(-) # pI:9.55 MW:20727
2	5way_CG_LeptolIII_scaff_6_GENE_20_SigP	18	1	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pI:9.38 MW:87643
2	UBA_LeptolIII_Scaffold_8524_GENE_127_SigP	18	1	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pI:9.38 MW:87643
2	5way_CG_LeptolIII_scaff_41_GENE_1_SigP	5	0	0	hypothetical protein 1173891:1174604 forward # pI:7.16 MW:25799
2	UBA_LeptolIII_Scaffold_8049_GENE_177_SigP	2	0	0	Hypothetical protein 174292:174618 reverse # pI:9.94 MW:11405
2	5way_CG_LeptolIII_scaff_318_GENE_7_SigP	2	0	0	hypothetical protein 2471200:2471523 reverse # pI:9.94 MW:11405
2	UBA_LeptolIII_341_3_SigP	14	0	0	(R - FOG: TPR repeat) # pI:9.23 MW:30968
2	UBA_LeptolIII_Scaffold_7931_GENE_73_SigP	11	0	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pI:5.78 MW:23631
2	5way_CG_LeptolIII_scaff_66_GENE_6_SigP	11	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pI:5.78 MW:23665
2	UBA_LeptolIII_332_4_SigP	3	0	0	(-) # pI:8.60 MW:14958
2	UBA_LeptolIII_Scaffold_8692_GENE_45_SigP	11	0	0	Hypothetical protein 47750:48604 forward # pI:8.96 MW:31844
2	5way_CG_LeptolIII_scaff_30_GENE_28_SigP	11	0	0	hypothetical protein 1056860:1057714 reverse # pI:8.97 MW:31900
2	UBA_LeptolIII_398_1_SigP	11	0	0	(-) # pI:5.16 MW:9995
2	UBA_LeptolIII_396_41_SigP	2	0	0	(-) # pI:9.45 MW:17282
2	5way_CG_LeptolIII_scaff_80_GENE_26_SigP	2	0	0	2-hydroxy-6-oxo-2,4-heptadieneoate hydrolase/TPR domain 1815422:1815994 forward # pI:9.67 MW:21223
2	UBA_LeptolIII_Scaffold_8062_GENE_268_SigP	6	0	0	Hypothetical protein 274747:275208 reverse # pI:9.73 MW:17490
2	UBA_LeptolIII_395_61_SigP	6	0	0	(-) # pI:9.73 MW:17490
2	5way_CG_LeptolIII_scaff_265_GENE_14_SigP	6	0	0	hypothetical protein 2356506:2356967 reverse # pI:9.73 MW:17490
2	5way_CG_LeptolIII_scaff_25_GENE_46_SigP	9	0	0	hypothetical protein 912913:913575 reverse # pI:10.04 MW:23895
2	UBA_LeptolIII_Scaffold_7931_GENE_363_SigP	8	0	0	Peroxisomal protein 418582:419157 forward # pI:9.67 MW:21131
2	UBA_LeptolIII_Scaffold_8241_GENE_79_SigP	7	0	0	Hypothetical protein 78556:79164 reverse # pI:9.58 MW:21627
2	5way_CG_LeptolIII_scaff_42_GENE_27_SigP	6	0	0	hypothetical protein 1233635:1234360 forward # pI:9.49 MW:27054
2	5way_CG_LeptolIII_scaff_4_GENE_7_SigP	7	0	0	hypothetical protein 248229:249083 forward # pI:9.11 MW:32330
2	UBA_LeptolIII_394_18_SigP	10	0	0	(C - Cytochrome c) # pI:9.67 MW:28371
2	UBA_LeptolIII_Scaffold_7931_GENE_383_SigP	3	0	0	undefined product 441204:441656 forward # pI:7.12 MW:15956
2	5way_CG_LeptolIII_scaff_41_GENE_9_SigP	3	0	0	hypothetical protein 1181714:1182166 reverse # pI:7.84 MW:15936
2	UBA_LeptolIII_393_4_SigP	2	0	0	(-) # pI:5.21 MW:15167
2	UBA_LeptolIII_Scaffold_8692_GENE_5_SigP	6	0	0	Hypothetical protein 4993:5544 forward # pI:10.17 MW:19972
2	Unass_bact_scaff_1002_GENE_2_SigP	2	1	0	- # Function: Hypothetical protein # pI:4.82 MW:20989
2	UBA_LeptolIII_362_12_SigP	2	0	0	(-) # pI:9.16 MW:19412
2	UBA_LeptolIII_396_81_SigP	3	0	0	(-) # pI:9.87 MW:18141
2	UBA_LeptolIII_353_6_SigP	4	0	0	(O - Thiol-disulfide isomerase and thioredoxins) # pI:9.78 MW:20913
2	UBA_LeptolIII_Scaffold_8241_GENE_362_SigP	2	0	0	F0F1-type ATP synthase, subunit c/Archaeal/vacuol ar-type H+-ATPase, subunit K 343213:343443 reverse # pI:8.12 MW:7871
2	5way_CG_LeptolIII_scaff_3_GENE_70_SigP	2	0	0	ATP synthase, subunit c 206954:207181 reverse # pI:8.12 MW:7871
2	5way_CG_LeptolIII_scaff_59_GENE_29_SigP	7	0	0	outer membrane efflux protein 1555634:1557010 forward # pI:8.91 MW:51472
2	UBA_LeptolIII_Scaffold_8241_GENE_539_SigP	5	0	0	Pyruvate 517295:517993 forward # pI:7.77 MW:25534
2	5way_CG_LeptolIII_scaff_48_GENE_13_SigP	5	0	0	pyruvate ferredoxin oxidoreductase 1410418:1411116 reverse # pI:7.77 MW:25520
2	UBA_LeptolIII_384_35_SigP	4	0	0	(-) # pI:10.31 MW:19809
2	gpl_scaff_198_GENE_2_SigP	6	0	0	# Gene_name: FixC # Function: Dehydrogenases (flavoproteins) # e-36 # pI:6.27 MW:44603
2	UBA_LeptolIII_376_10_SigP	8	2	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pI:11.35 MW:36547
2	UBA_LeptolIII_343_2_SigP	6	0	0	(M - Outer membrane protein) # pI:6.25 MW:49966
2	UBA_LeptolIII_Scaffold_7931_GENE_123_SigP	5	0	0	Cytochrome c 128461:129270 forward # pI:9.68 MW:29622
2	5way_CG_LeptolIII_scaff_46_GENE_28_SigP	5	0	0	cytochrome c 1396147:1396956 forward # pI:9.68 MW:29622
2	UBA_LeptolIII_343_5_SigP	3	0	0	(-) # pI:7.66 MW:21673
2	UBA_LeptolIII_Scaffold_7931_GENE_377_SigP	9	0	0	undefined product 432399:433847 forward # pI:4.30 MW:52721

2	UBA_LeptolI_Scaffold_8524_GENE_165_SigP	5	0	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
2	5way_CG_LeptolI_scaff_68_GENE_16_SigP	5	0	0	hypothetical protein 1654556:1655425 forward # pl:9.89 MW:31842
2	UBA_LeptolII_354_2_SigP	3	0	0	(-) # pl:7.82 MW:16492
2	5way_CG_LeptolI_scaff_98_GENE_4_SigP	4	0	0	hypothetical protein 1928434:1929141 forward # pl:11.10 MW:26097
2	UBA_LeptolII_396_49_SigP	2	0	0	(-) # pl:10.33 MW:17131
2	UBA_LeptolII_399_159_SigP	15	0	0	(-) # pl:9.62 MW:23985
2	UBA_LeptolII_355_9_SigP	5	0	0	(S - Uncharacterized conserved protein) # pl:9.46 MW:33323
2	UBA_LeptolI_Scaffold_8241_GENE_392_SigP	2	1	0	Hypothetical protein 371271:371777 forward # pl:11.11 MW:18296
2	5way_CG_LeptolI_scaff_51_GENE_24_SigP	10	1	0	TonB-dependent receptor 1462305:1465229 reverse # pl:5.09 MW:104765
2	gpl_scaff_238_GENE_7_SigP	3	0	0	- # Function: Hypothetical protein # pl:4.52 MW:22675
2	UBA_LeptolI_Scaffold_8241_GENE_544_SigP	4	0	0	Hypothetical protein 522023:522568 forward # pl:9.54 MW:20235
2	UBA_LeptolII_376_8_SigP	5	0	0	(R - FOG: TPR repeat, SEL1 subfamily) # pl:9.53 MW:62895
2	5way_CG_LeptolI_scaff_94_GENE_5_SigP	10	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
2	UBA_LeptolI_Scaffold_8241_GENE_154_SigP	3	0	0	Hypothetical protein 147832:148947 reverse # pl:5.63 MW:41163
2	5way_CG_LeptolI_scaff_374_GENE_8_SigP	3	0	0	hypothetical protein 2509891:2511006 reverse # pl:5.63 MW:41163
2	UBA_LeptolI_Scaffold_8692_GENE_61_SigP	5	0	0	Outer membrane protein 61581:63005 reverse # pl:8.50 MW:52169
2	5way_CG_LeptolI_scaff_30_GENE_12_SigP	5	0	0	outer membrane efflux protein 1042734:1044158 forward # pl:6.61 MW:52107
2	UBA_LeptolII_379_16_SigP	14	0	0	(-) # pl:9.95 MW:71809
2	UBA_LeptolII_388_19_SigP	3	0	0	(-) # pl:9.71 MW:22830
2	Unass_bact_scaff_884_GENE_2_SigP	2	0	0	- # Function: Hypothetical protein # pl:10.17 MW:12310
2	UBA_LeptolII_369_3_SigP	2	0	0	(-) # pl:10.11 MW:12551
2	5way_CG_LeptolI_scaff_32_GENE_24_SigP	3	0	0	hypothetical protein 1095187:1095858 forward # pl:4.69 MW:23690
2	5way_CG_LeptolI_scaff_21_GENE_25_SigP	6	0	0	hypothetical protein 735291:736745 reverse # pl:7.80 MW:53899
2	5way_CG_LeptolI_scaff_41_GENE_16_SigP	7	0	0	hypothetical protein 1189524:1190972 reverse # pl:4.22 MW:52723
2	UBA_LeptolII_399_67_SigP	2	0	0	(-) # pl:4.43 MW:20384
2	UBA_LeptolI_Scaffold_8062_GENE_38_SigP	18	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
2	5way_CG_LeptolI_scaff_14_GENE_4_SigP	5	0	0	hypothetical protein 648825:649448 forward # pl:9.19 MW:23376
2	5way_CG_LeptolI_scaff_167_GENE_10_SigP	15	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
2	UBA_LeptolI_Scaffold_8692_GENE_75_SigP	16	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
2	UBA_LeptolI_Scaffold_8241_GENE_116_SigP	4	0	0	Hypothetical protein 114233:114904 reverse # pl:4.67 MW:23609
2	UBA_LeptolII_384_28_SigP	2	0	0	(C - Malate/lactate dehydrogenases) # pl:6.34 MW:34591
2	UBA_LeptolII_397_86_SigP	6	0	0	(-) # pl:8.92 MW:22518
2	UBA_LeptolII_362_23_SigP	6	0	0	(M - Outer membrane protein) # pl:7.76 MW:52412
2	UBA_LeptolI_Scaffold_8135_GENE_81_SigP	7	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
2	UBA_LeptolI_Scaffold_8049_GENE_3_SigP	7	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
2	5way_CG_LeptolI_scaff_25_GENE_2_SigP	7	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
2	5way_CG_LeptolI_scaff_120_GENE_14_SigP	7	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
2	UBA_LeptolII_382_22_SigP	9	1	0	(U - Periplasmic component of the Tol biopolymer transport system) # pl:9.05 MW:48786
2	fer1_scaff_58_GENE_10_SigP	2	0	0	# Gene_name: Mdh # Function: Malate/lactate dehydrogenases # e-123 # pl:5.75 MW:34719
2	5way_CG_LeptolI_scaff_22_GENE_33_SigP	10	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
2	UBA_LeptolI_Scaffold_8241_GENE_248_SigP	4	0	0	Hypothetical protein 232386:233240 reverse # pl:9.32 MW:32282
2	UBA_LeptolI_Scaffold_8241_GENE_55_SigP	7	0	0	Conserved hypothetical protein 53795:55249 reverse # pl:8.85 MW:54208
2	UBA_LeptolII_394_47_SigP	3	2	0	(-) # pl:10.39 MW:25595
2	UBA_LeptolI_Scaffold_8049_GENE_42_SigP	4	0	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108
2	5way_CG_LeptolI_scaff_96_GENE_5_SigP	7	0	0	hypothetical protein 1906272:1907108 forward # pl:11.31 MW:30636
2	UBA_LeptolII_370_17_SigP	2	1	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:10.30 MW:28861
2	5way_CG_LeptolI_scaff_41_GENE_29_SigP	5	0	0	bacterioferritin comigratory protein/ferredoxin 1204208:1204783 reverse # pl:9.67 MW:21373
2	UBA_LeptolI_Scaffold_8049_GENE_55_SigP	5	0	0	Hypothetical protein 42266:42961 forward # pl:7.09 MW:26271
2	5way_CG_LeptolI_scaff_25_GENE_53_SigP	5	0	0	hypothetical protein 917425:918120 forward # pl:7.75 MW:26216
2	UBA_LeptolI_Scaffold_8241_GENE_610_SigP	7	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
2	UBA_LeptolII_390_27_SigP	4	0	0	(-) # pl:11.52 MW:26393
2	UBA_LeptolII_390_44_SigP	28	0	0	(-) # pl:7.72 MW:17434
2	UBA_LeptolII_307_1_SigP	28	0	0	(-) # pl:9.55 MW:17070
2	UBA_LeptolI_Scaffold_8241_GENE_21_SigP	2	1	0	Putative phospholipid binding protein 18471:19037 reverse # pl:9.81 MW:20481
2	UBA_LeptolI_Scaffold_8241_GENE_149_SigP	52	0	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
2	UBA_LeptolI_Scaffold_7931_GENE_122_SigP	5	0	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
2	5way_CG_LeptolI_scaff_46_GENE_27_SigP	5	0	0	cytochrome c 1395273:1396082 forward # pl:9.97 MW:29736
2	5way_CG_LeptolI_scaff_3_GENE_90_SigP	5	0	0	competence protein ComL 223253:223984 reverse # pl:9.91 MW:28824
2	UBA_LeptolI_Scaffold_8692_GENE_161_SigP	8	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
2	5way_CG_LeptolI_scaff_630_GENE_3_SigP	4	0	0	hypothetical protein 2708442:2709209 forward # pl:9.62 MW:28389
2	fer2_scaff_12_GENE_37_SigP	3	0	0	- # Function: Hypothetical protein # pl:8.94 MW:32472
2	UBA_LeptolII_398_147_SigP	6	0	0	(-) # pl:4.21 MW:48475
2	UBA_LeptolII_376_20_SigP	6	0	0	(-) # pl:4.42 MW:51488
2	UBA_LeptolII_395_59_SigP	4	0	0	(-) # pl:9.43 MW:19080
2	UBA_LeptolII_371_19_SigP	2	0	0	(-) # pl:5.44 MW:21984
2	UBA_LeptolI_Scaffold_8692_GENE_147_SigP	6	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
2	5way_CG_LeptolI_scaff_44_GENE_17_SigP	2	0	0	malate dehydrogenase 1311610:1312572 forward # pl:6.14 MW:34712
2	UBA_LeptolI_Scaffold_8027_GENE_31_SigP	3	0	0	Malate/lactate dehydrogenases 32641:33603 forward # pl:6.37 MW:34682
2	UBA_LeptolI_Scaffold_8062_GENE_264_SigP	8	0	0	undefined product 270540:271802 forward # pl:5.82 MW:46323
2	UBA_LeptolII_395_57_SigP	8	0	0	(-) # pl:5.82 MW:46323

2	5way_CG_LeptolII_scaff_53_GENE_17_SigP	4	0	0	hypothetical protein 1482065:1483813 reverse # pl:10.58 MW:67070
2	UBA_LeptolII_Scaffold_7931_GENE_311_SigP	7	0	0	FOG 348657:351887 forward # pl:9.10 MW:118365
2	UBA_LeptolII_350_16_SigP	4	0	0	(-) # pl:9.27 MW:20513
2	UBA_LeptolII_Scaffold_8049_GENE_375_SigP	2	0	0	undefined product 357444:357965 forward # pl:9.75 MW:19619
2	5way_CG_LeptolII_scaff_45_GENE_7_SigP	2	0	0	hypothetical protein 1332494:1333015 reverse # pl:9.58 MW:19637
2	5way_CG_LeptolII_scaff_42_GENE_24_SigP	2	0	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
2	UBA_LeptolII_Scaffold_8062_GENE_26_SigP	2	0	0	Hypothetical protein 27591:28298 forward # pl:11.34 MW:26068
2	UBA_LeptolII_329_1_SigP	6	6	0	(R - Phospholipid-binding protein) # pl:9.92 MW:17607
2	UBA_LeptolII_Scaffold_7931_GENE_121_SigP	5	0	0	Cytochrome c553 126894:127571 forward # pl:9.77 MW:24552
2	5way_CG_LeptolII_scaff_46_GENE_26_SigP	5	0	0	cytochrome c 1394580:1395257 forward # pl:9.77 MW:24552
2	UBA_LeptolII_Scaffold_8062_GENE_114_SigP	8	0	0	Outer membrane receptor for Fe3+-dicitrate 108626:111550 forward # pl:5.10 MW:104983
2	UBA_LeptolII_Scaffold_8241_GENE_381_SigP	3	0	0	DNA uptake lipoprotein 359495:360226 reverse # pl:9.91 MW:28875
2	UBA_LeptolII_Scaffold_8241_GENE_524_SigP	3	0	0	Parvulin-like peptidyl-prolyl isomerase 502388:503257 reverse # pl:9.96 MW:32363
2	5way_CG_LeptolII_scaff_48_GENE_30_SigP	3	0	0	peptidyl-prolyl cis-trans isomerase 1425137:1426006 forward # pl:9.84 MW:32345
2	5way_CG_LeptolII_scaff_80_GENE_19_SigP	2	0	0	thiol-disulfide isomerase 1807699:1808745 reverse # pl:8.70 MW:38966
2	5way_CG_LeptolII_scaff_3_GENE_62_SigP	2	0	0	hypothetical protein 199611:200567 forward # pl:9.76 MW:36741
2	UBA_LeptolII_Scaffold_8241_GENE_103_SigP	5	0	0	undefined product 104291:105808 reverse # pl:4.37 MW:54784
2	5way_CG_LeptolII_scaff_32_GENE_36_SigP	5	0	0	hypothetical protein 1104400:1105929 forward # pl:4.32 MW:55077
2	UBA_LeptolII_399_152_SigP	2	0	0	(-) # pl:9.44 MW:27087
2	UBA_LeptolII_Scaffold_7931_GENE_221_SigP	4	0	0	undefined product 236769:238109 reverse # pl:5.59 MW:49248
2	5way_CG_LeptolII_scaff_2_GENE_85_SigP	4	0	0	hypothetical protein 93743:95083 reverse # pl:5.45 MW:49277
2	UBA_LeptolII_Scaffold_8135_GENE_36_SigP	2	0	0	Hypothetical protein 32860:34020 reverse # pl:9.55 MW:42669
2	UBA_LeptolII_Scaffold_8241_GENE_85_SigP	3	0	0	Putative secretion protein 84770:85819 reverse # pl:9.82 MW:37009
2	5way_CG_LeptolII_scaff_141_GENE_14_SigP	2	0	0	serine protease 2055358:2056338 reverse # pl:10.66 MW:35079
2	Unass_arch_scaff_952_GENE_3_SigP	3	0	0	- # Function: Hypothetical protein # pl:9.38 MW:23467
2	UBA_LeptolII_Scaffold_8241_GENE_643_SigP	3	0	0	Flagellar basal-body P-ring protein 626248:627312 forward # pl:9.81 MW:37404
2	5way_CG_LeptolII_scaff_13_GENE_22_SigP	3	0	0	flagellar P-ring protein 600771:601835 reverse # pl:9.86 MW:37671
2	UBA_LeptolII_Scaffold_8062_GENE_133_SigP	4	0	0	Hypothetical protein 138306:138929 forward # pl:9.11 MW:23422
2	UBA_LeptolII_Scaffold_8241_GENE_254_SigP	5	0	0	Outer membrane efflux protein 239540:240916 reverse # pl:8.91 MW:51398
2	5way_CG_LeptolII_scaff_66_GENE_9_SigP	2	0	0	hypothetical protein 1593933:1594931 forward # pl:5.00 MW:36982
2	UBA_LeptolII_374_9_SigP	2	0	0	(R - Uncharacterized NAD(FAD)-dependent dehydrogenases) # pl:8.31 MW:42014
2	Unass_arch_scaff_986_GENE_2_SigP	6	0	0	# Gene_name: UggpB # Function: Sugar-binding periplasmic proteins/domains # e-47 # pl:5.75 MW:51639
2	UBA_LeptolII_373_28_SigP	3	0	0	(-) # pl:9.63 MW:30028
2	Unass_bact_scaff_760_GENE_4_SigP	3	0	0	- # Function: Hypothetical protein # pl:9.70 MW:33321
2	UBA_LeptolII_364_25_SigP	3	0	0	(-) # pl:9.61 MW:34394
2	UBA_LeptolII_378_23_SigP	7	2	0	(M - N-acetylmuramoyl-L-alanine amidase) # pl:11.03 MW:51742
2	UBA_LeptolII_Scaffold_8049_GENE_135_SigP	3	0	0	Hypothetical protein 128406:129443 forward # pl:9.23 MW:39749
2	5way_CG_LeptolII_scaff_33_GENE_19_SigP	3	0	0	hypothetical protein 1141204:1142241 forward # pl:9.23 MW:39749
2	UBA_LeptolII_Scaffold_8241_GENE_119_SigP	2	0	0	Putative histidine kinase 116577:118217 forward # pl:6.83 MW:60830
2	5way_CG_LeptolII_scaff_53_GENE_26_SigP	5	0	0	hypothetical protein 1495267:1496724 reverse # pl:10.11 MW:49724
2	UBA_LeptolII_Scaffold_8135_GENE_5_SigP	2	0	0	FOG 3195:4136 forward # pl:9.10 MW:34971
2	5way_CG_LeptolII_scaff_62_GENE_5_SigP	2	0	0	hypothetical protein 1560383:1561324 forward # pl:8.96 MW:35059
2	5way_CG_LeptolII_scaff_22_GENE_30_SigP	4	0	0	cellulase 797157:798257 reverse # pl:9.98 MW:41939
2	5way_CG_LeptolII_scaff_71_GENE_14_SigP	3	0	0	hypothetical protein 1704479:1705651 reverse # pl:9.44 MW:43258
2	5way_CG_LeptolII_scaff_2_GENE_40_SigP	2	0	0	hydrolase (HAD superfamily) 44416:45981 reverse # pl:6.21 MW:58492
2	UBA_LeptolII_Scaffold_7931_GENE_118_SigP	2	0	0	Phytoene dehydrogenase and related proteins 121509:122999 forward # pl:9.48 MW:54664
2	5way_CG_LeptolII_scaff_46_GENE_23_SigP	2	0	0	carotenoid isomerase/phytoene dehydrogenase 1389195:1390685 forward # pl:9.48 MW:54664
2	UBA_LeptolII_Scaffold_8241_GENE_566_SigP	5	0	0	Cation/multidrug efflux pump 548557:551730 forward # pl:8.44 MW:116594
2	UBA_LeptolII_334_11_SigP	3	0	0	(-) # pl:4.68 MW:19133
2	fer1_scaff_58_GENE_9_SigP	2	0	0	# Gene_name: SdhA # Function: Succinate dehydrogenase/fumarate reductase, flavoprotein subunits # e-145 # pl:5.89 MW:62615
2	5way_CG_LeptolII_scaff_175_GENE_13_SigP	2	0	0	hypothetical protein 2150236:2151432 forward # pl:8.93 MW:43119
2	UBA_LeptolII_399_73_SigP	4	0	0	(P - Outer membrane receptor for Fe3+-dicitrate) # pl:5.29 MW:103588
2	Unass_bact_scaff_1134_GENE_1_SigP	2	0	0	- # Function: Hypothetical protein # pl:9.69 MW:13731
2	UBA_LeptolII_Scaffold_7931_GENE_32_SigP	2	0	0	Hypothetical protein 27920:29092 reverse # pl:9.33 MW:43431
2	5way_CG_LeptolII_scaff_865_GENE_1_SigP	6	0	0	hypothetical protein 2820338:2820835 forward # pl:4.07 MW:17740
2	UBA_LeptolII_Scaffold_8241_GENE_196_SigP	2	0	0	Putative methyl-accepting chemotaxis protein 183744:185417 reverse # pl:8.32 MW:61190
2	5way_CG_LeptolII_scaff_4_GENE_62_SigP	2	0	0	methyl-accepting chemotaxis protein 301193:302866 forward # pl:8.95 MW:60984
2	UBA_LeptolII_Scaffold_8027_GENE_48a_SigP	2	0	0	Hypothetical protein 47726:48559 forward # pl:11.68 MW:30762
2	UBA_LeptolII_Scaffold_7931_GENE_176_SigP	3	0	0	Predicted HD superfamily hydrolase 187397:188962 reverse # pl:6.12 MW:58581
2	UBA_LeptolII_Scaffold_7931_GENE_347_SigP	2	0	0	Hypothetical protein 402145:403218 reverse # pl:8.65 MW:39325
2	fer1_scaff_300_GENE_5_SigP	2	0	0	# Gene_name: FadB # Function: 3-Hydroxyacyl-CoA dehydrogenase # e-118 # pl:5.47 MW:71148
2	5way_CG_LeptolII_scaff_212_GENE_16_SigP	2	0	0	H+-transporting ATPase 2237757:2239373 reverse # pl:9.09 MW:54439
2	UBA_LeptolII_Scaffold_7931_GENE_366_SigP	2	0	0	Hypothetical protein 421047:421625 reverse # pl:4.83 MW:20003
2	5way_CG_LeptolII_scaff_41_GENE_26_SigP	2	0	0	hypothetical protein 1201740:1202318 forward # pl:4.61 MW:19954
2	5way_CG_LeptolII_scaff_4_GENE_32_SigP	2	0	0	hypothetical protein 271575:273734 forward # pl:10.25 MW:82156
2	UBA_LeptolII_391_22_SigP	2	0	0	(R - FOG: TPR repeat) # pl:8.84 MW:118396
2	5way_CG_LeptolII_scaff_43_GENE_15_SigP	4	0	0	cation efflux transport 1271055:1274228 forward # pl:7.83 MW:116596
2	5way_CG_LeptolII_scaff_25_GENE_28_SigP	2	0	0	organic solvent tolerance protein 895833:898136 forward # pl:4.82 MW:84724
2	5way_CG_LeptolII_scaff_2_GENE_44_SigP	3	0	0	soluble lytic transglycosylase 48347:50407 reverse # pl:10.33 MW:77488
2	UBA_LeptolII_391_31_SigP	2	0	0	(M - Sugar transferases involved in lipopolysaccharide synthesis) # pl:9.92 MW:50369

2	UBA_Leptoll_Scaffold_8241_GENE_222_SigP	2	0	0	Conserved hypothetical protein 207736:209895 reverse # pl:10.15 MW:82415
2	fer2_scaff_29_GENE_33_SigP	3	0	0	- # Function: Hypothetical protein # pl:5.42 MW:93510
2	fer2_scaff_20_GENE_5_SigP	3	0	0	- # Function: Hypothetical protein # pl:4.99 MW:143905
2	UBA_Leptoll_Scaffold_7931_GENE_181_SigP	2	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pl:10.33 MW:77941

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB Front Sample Set - Run 3

Sample	Gene Name	Total Spec	New N-terminus	Gene Called	Function
Num		Count	Spec Count	N-terminus	
3	5way_CG_LeptolI_scaff_6_GENE_19_SigP	201	10	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
3	5way_CG_LeptolI_scaff_23_GENE_15_SigP	96	23	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
3	UBA_LeptolI_Scaffold_8049_GENE_366_SigP	120	1	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
3	UBA_LeptolI_Scaffold_8241_GENE_298_SigP	139	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
3	5way_CG_LeptolI_scaff_3_GENE_5_SigP	139	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
3	UBA_LeptolI_Scaffold_8049_GENE_83_SigP	94	23	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
3	5way_CG_LeptolI_scaff_141_GENE_2_SigP	44	2	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
3	UBA_LeptolI_Scaffold_8524_GENE_249_SigP	182	2	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
3	UBA_LeptolI_Scaffold_8524_GENE_128_SigP	195	10	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
3	5way_CG_LeptolI_scaff_62_GENE_10_SigP	125	9	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
3	UBA_LeptolI_Scaffold_8049_GENE_48_SigP	10	1	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
3	UBA_LeptolI_Scaffold_8135_GENE_9_SigP	115	9	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
3	UBA_LeptolI_Scaffold_8524_GENE_248_SigP	52	4	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
3	UBA_LeptolI_Scaffold_8062_GENE_53_SigP	114	2	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
3	UBA_LeptolII_336_16_SigP	30	1	0	(-) # pl:9.75 MW:19719
3	UBA_LeptolII_351_1_SigP	30	1	0	(-) # pl:9.75 MW:19719
3	5way_CG_LeptolI_scaff_81_GENE_24_SigP	101	2	0	(-) # pl:10.05 MW:15038
3	UBA_LeptolII_314_4_SigP	101	2	0	(-) # pl:10.05 MW:15038
3	Unass_bact_scaff_1131_GENE_3_SigP	42	1	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
3	5way_CG_LeptolI_scaff_3_GENE_4_SigP	101	3	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
3	5way_CG_LeptolI_scaff_66_GENE_21_SigP	24	1	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
3	UBA_LeptolI_Scaffold_7931_GENE_87_SigP	24	1	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
3	UBA_LeptolII_398_122_SigP	20	1	0	(-) # pl:9.92 MW:13689
3	UBA_LeptolI_Scaffold_8062_GENE_34_SigP	98	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
3	5way_CG_LeptolI_scaff_45_GENE_15_SigP	106	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
3	UBA_LeptolII_394_71_SigP	16	0	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
3	5way_CG_LeptolI_scaff_689_GENE_3_SigP	16	0	0	cytochrome c551 2741290:2741619 forward # pl:9.20 MW:11513
3	UBA_LeptolII_390_49_SigP	87	8	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
3	UBA_LeptolI_Scaffold_8241_GENE_297_SigP	87	2	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
3	UBA_LeptolII_364_1_SigP	95	1	0	(-) # pl:10.85 MW:12350
3	UBA_LeptolII_399_60_SigP	57	1	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
3	UBA_LeptolII_361_11_SigP	86	0	0	(-) # pl:9.66 MW:26334
3	UBA_LeptolII_388_1_SigP	38	4	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
3	5way_CG_LeptolI_scaff_98_GENE_12_SigP	99	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
3	5way_CG_LeptolI_scaff_4_GENE_16_SigP	125	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
3	UBA_LeptolI_Scaffold_8241_GENE_56_SigP	95	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
3	5way_CG_LeptolI_scaff_21_GENE_26_SigP	95	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
3	UBA_LeptolII_399_92_SigP	101	18	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
3	5way_CG_LeptolI_scaff_25_GENE_47_SigP	9	2	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
3	UBA_LeptolII_373_5_SigP	69	0	0	(-) # pl:9.91 MW:21663
3	UBA_LeptolII_391_4_SigP	44	0	0	(-) # pl:10.15 MW:22759
3	UBA_LeptolI_Scaffold_8241_GENE_238_SigP	109	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
3	UBA_LeptolI_Scaffold_8062_GENE_94_SigP	8	0	0	undefined product 90930:91310 forward # pl:10.10 MW:13174
3	UBA_LeptolII_391_6_SigP	6	0	0	(-) # pl:9.46 MW:11977
3	UBA_LeptolII_398_2_SigP	75	1	0	(-) # pl:10.81 MW:15675
3	5way_CG_LeptolI_scaff_141_GENE_3_SigP	180	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
3	5way_CG_LeptolI_scaff_46_GENE_4_SigP	7	2	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
3	UBA_LeptolI_Scaffold_7931_GENE_101_SigP	7	2	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
3	UBA_LeptolI_Scaffold_8241_GENE_121_SigP	95	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
3	UBA_LeptolI_Scaffold_8524_GENE_201_SigP	19	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
3	UBA_LeptolII_398_1_SigP	4	0	0	(-) # pl:5.16 MW:9995
3	UBA_LeptolII_376_11_SigP	58	0	0	(-) # pl:7.90 MW:21402
3	UBA_LeptolI_Scaffold_7931_GENE_365_SigP	44	3	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
3	UBA_LeptolI_Scaffold_8241_GENE_565_SigP	19	1	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
3	5way_CG_LeptolI_scaff_32_GENE_25_SigP	98	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
3	UBA_LeptolI_Scaffold_8241_GENE_114_SigP	98	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
3	UBA_LeptolII_361_9_SigP	30	0	0	(-) # pl:9.43 MW:25462
3	UBA_LeptolII_361_10_SigP	59	2	0	(-) # pl:9.57 MW:54911
3	UBA_LeptolII_394_70_SigP	59	4	0	(-) # pl:10.49 MW:18094
3	5way_CG_LeptolI_scaff_32_GENE_19_SigP	92	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114
3	5way_CG_LeptolI_scaff_8_GENE_23_SigP	19	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
3	UBA_LeptolII_382_21_SigP	29	0	0	(S - Uncharacterized protein conserved in bacteria) # pl:9.37 MW:30574
3	5way_CG_LeptolI_scaff_41_GENE_27_SigP	50	0	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
3	5way_CG_LeptolI_scaff_96_GENE_7_SigP	36	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
3	UBA_LeptolI_Scaffold_8027_GENE_50_SigP	35	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425

3	5way_CG_LeptolI_scaff_374_GENE_7_SigP	51	23	1	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
3	UBA_LeptolI_Scaffold_8241_GENE_153_SigP	51	23	1	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
3	UBA_LeptolI_Scaffold_8241_GENE_693_SigP	82	2	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
3	UBA_LeptolII_382_13_SigP	38	0	0	(-) # pl:9.79 MW:36778
3	UBA_LeptolI_Scaffold_7931_GENE_338_SigP	17	1	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
3	5way_CG_LeptolI_scaff_43_GENE_14_SigP	23	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
3	UBA_LeptolI_Scaffold_8241_GENE_349_SigP	115	0	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
3	5way_CG_LeptolI_scaff_21_GENE_20_SigP	35	0	0	hypothetical protein 728920:729237 forward # pl:9.18 MW:11040
3	UBA_LeptolII_397_16_SigP	32	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:9.97 MW:35837
3	5way_CG_LeptolI_scaff_333_GENE_9_SigP	14	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
3	UBA_LeptolI_Scaffold_8241_GENE_295_SigP	11	0	0	Hypothetical protein 274121:274495 forward # pl:9.10 MW:13221
3	5way_CG_LeptolI_scaff_473_GENE_6_SigP	20	0	0	hypothetical protein 2604173:2604670 reverse # pl:10.24 MW:18719
3	5way_CG_LeptolI_scaff_178_GENE_9_SigP	5	4	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
3	UBA_LeptolI_Scaffold_8049_GENE_321_SigP	5	4	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
3	UBA_LeptolI_Scaffold_8241_GENE_348_SigP	46	2	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
3	UBA_LeptolII_391_32_SigP	14	0	0	(M - Periplasmic protein involved in polysaccharide export) # pl:9.52 MW:31336
3	UBA_LeptolI_Scaffold_7931_GENE_112_SigP	15	0	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
3	5way_CG_LeptolI_scaff_46_GENE_17_SigP	15	0	0	soluble cytochrome cB/cytochrome c553 1379572:1380243 reverse # pl:9.81 MW:24159
3	UBA_LeptolI_Scaffold_8049_GENE_192_SigP	88	1	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
3	UBA_LeptolII_388_7_SigP	15	0	0	(O - Parvulin-like peptidyl-prolyl isomerase) # pl:9.83 MW:31994
3	5way_CG_LeptolI_scaff_42_GENE_33_SigP	50	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
3	UBA_LeptolII_384_12_SigP	22	0	0	(-) # pl:10.43 MW:24691
3	5way_CG_LeptolI_scaff_98_GENE_11_SigP	36	0	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
3	UBA_LeptolII_356_3_SigP	16	4	0	(-) # pl:6.60 MW:24706
3	5way_CG_LeptolI_scaff_42_GENE_34_SigP	38	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
3	5way_CG_LeptolI_scaff_3_GENE_58_SigP	66	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
3	5way_CG_LeptolI_scaff_42_GENE_27_SigP	7	0	0	hypothetical protein 1233635:1234360 forward # pl:9.49 MW:27054
3	5way_CG_LeptolI_scaff_80_GENE_22_SigP	30	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
3	UBA_LeptolI_Scaffold_8241_GENE_522_SigP	29	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
3	5way_CG_LeptolI_scaff_86_GENE_7_SigP	22	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
3	5way_CG_LeptolI_scaff_48_GENE_32_SigP	29	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
3	5way_CG_LeptolI_scaff_98_GENE_10_SigP	20	0	0	hypothetical protein 1933888:1934532 forward # pl:9.80 MW:24317
3	UBA_LeptolI_Scaffold_8062_GENE_31_SigP	22	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
3	UBA_LeptolI_Scaffold_8241_GENE_253_SigP	24	2	0	Putative secretion protein (HlyD) 238386:239528 reverse # pl:7.85 MW:42147
3	UBA_LeptolII_328_11_SigP	55	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
3	UBA_LeptolII_394_10_SigP	13	3	0	(-) # pl:11.06 MW:18504
3	UBA_LeptolI_Scaffold_8049_GENE_209_SigP	22	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
3	UBA_LeptolII_394_36_SigP	26	0	0	(-) # pl:6.54 MW:55063
3	UBA_LeptolI_Scaffold_8524_GENE_197_SigP	30	0	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
3	5way_CG_LeptolI_scaff_8_GENE_20_SigP	26	0	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
3	UBA_LeptolI_Scaffold_7931_GENE_16_SigP	17	0	0	Hypothetical protein 12313:12933 reverse # pl:9.26 MW:23588
3	5way_CG_LeptolI_scaff_428_GENE_6_SigP	17	0	0	hypothetical protein 2557294:2557914 reverse # pl:9.26 MW:23588
3	UBA_LeptolII_334_5_SigP	13	0	0	(-) # pl:10.11 MW:31964
3	UBA_LeptolII_398_36_SigP	6	0	0	(-) # pl:7.93 MW:16526
3	5way_CG_LeptolI_scaff_98_GENE_16_SigP	21	0	0	hypothetical protein 1939943:1940773 reverse # pl:5.20 MW:28369
3	UBA_LeptolII_393_44_SigP	19	0	0	(-) # pl:9.02 MW:37913
3	5way_CG_LeptolI_scaff_120_GENE_4_SigP	30	0	0	efflux protein, CzcB 1968652:1969776 reverse # pl:9.89 MW:41685
3	UBA_LeptolI_Scaffold_8027_GENE_57_SigP	38	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
3	5way_CG_LeptolI_scaff_96_GENE_14_SigP	38	0	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
3	UBA_LeptolI_Scaffold_8524_GENE_269_SigP	10	0	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589
3	UBA_LeptolII_399_64_SigP	18	0	0	(-) # pl:9.80 MW:25377
3	5way_CG_LeptolI_scaff_8_GENE_36_SigP	12	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
3	Unass_bact_scaff_1043_GENE_3_SigP	9	3	0	- # Function: Hypothetical protein # pl:9.28 MW:17946
3	5way_CG_LeptolI_scaff_32_GENE_52_SigP	23	3	0	outer membrane efflux protein 1122927:1123435 forward # pl:9.60 MW:52943
3	UBA_LeptolI_Scaffold_8135_GENE_71_SigP	25	0	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
3	5way_CG_LeptolI_scaff_14_GENE_50_SigP	20	0	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
3	5way_CG_LeptolI_scaff_96_GENE_6_SigP	21	7	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
3	5way_CG_LeptolI_scaff_48_GENE_7_SigP	6	0	0	hypothetical protein 1405849:1406394 reverse # pl:9.64 MW:20256
3	UBA_LeptolI_Scaffold_8062_GENE_173_SigP	15	0	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
3	5way_CG_LeptolI_scaff_511_GENE_2_SigP	73	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
3	UBA_LeptolII_399_94_SigP	15	1	0	(-) # pl:4.49 MW:57767
3	UBA_LeptolI_Scaffold_8049_GENE_109_SigP	8	0	0	Hypothetical protein 103611:104141 forward # pl:9.51 MW:19740
3	5way_CG_LeptolI_scaff_23_GENE_41_SigP	8	0	0	hypothetical protein 865371:865901 forward # pl:9.51 MW:19771
3	UBA_LeptolI_Scaffold_7931_GENE_98_SigP	13	0	0	Hypothetical protein 96019:96525 forward # pl:9.43 MW:19616
3	5way_CG_LeptolI_scaff_297_GENE_4_SigP	13	0	0	hypothetical protein 2435158:2435664 reverse # pl:9.43 MW:19616
3	5way_CG_LeptolI_scaff_4_GENE_2_SigP	21	2	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
3	UBA_LeptolII_375_20_SigP	5	0	0	(-) # pl:9.30 MW:13970
3	UBA_LeptolI_Scaffold_8241_GENE_573_SigP	18	0	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
3	UBA_LeptolII_399_123_SigP	18	0	0	(-) # pl:9.93 MW:19208
3	5way_CG_LeptolI_scaff_43_GENE_22_SigP	19	0	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118

3	UBA_LeptolI_Scaffold_8241_GENE_298a_SigP	15	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pl:11.10 MW:25887
3	UBA_LeptolI_Scaffold_8049_GENE_190_SigP	7	0	0	Hypothetical protein 189991:190548 reverse # pl:5.63 MW:20533
3	5way_CG_LeptolI_scaff_511_GENE_5_SigP	7	0	0	hypothetical protein 2634648:2635205 forward # pl:5.63 MW:20533
3	UBA_LeptolI_Scaffold_8027_GENE_49_SigP	18	7	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pl:9.05 MW:50054
3	UBA_LeptolI_Scaffold_7931_GENE_97_SigP	11	0	0	Hypothetical protein 95055:95750 reverse # pl:8.82 MW:26173
3	5way_CG_LeptolI_scaff_297_GENE_5_SigP	11	0	0	hypothetical protein 2435933:2436628 forward # pl:8.82 MW:26173
3	UBA_LeptolI_Scaffold_8062_GENE_96_SigP	10	1	0	Hypothetical protein 91810:92214 forward # pl:9.91 MW:15955
3	UBA_LeptolI_Scaffold_8062_GENE_32_SigP	25	0	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
3	5way_CG_LeptolI_scaff_13_GENE_57_SigP	8	0	0	hypothetical protein 633696:634211 reverse # pl:9.45 MW:19141
3	UBA_LeptolI_Scaffold_8241_GENE_32_SigP	34	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194
3	UBA_LeptolI_Scaffold_8027_GENE_55_SigP	19	0	0	FOG 55616:56380 forward # pl:9.75 MW:29641
3	5way_CG_LeptolI_scaff_96_GENE_12_SigP	19	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
3	5way_CG_LeptolI_scaff_4_GENE_18_SigP	7	2	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
3	UBA_LeptolI_Scaffold_8241_GENE_236_SigP	7	2	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
3	UBA_LeptolI_Scaffold_8062_GENE_151_SigP	10	2	0	Hypothetical protein 158736:159437 reverse # pl:10.88 MW:26479
3	5way_CG_LeptolI_scaff_376_GENE_6_SigP	2	1	0	hypothetical protein 2514094:2514462 reverse # pl:9.68 MW:13844
3	5way_CG_LeptolI_scaff_3_GENE_6_SigP	16	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
3	UBA_LeptolI_Scaffold_8524_GENE_216_SigP	14	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
3	UBA_LeptolIII_353_2_SigP	17	0	0	(-) # pl:9.33 MW:31803
3	UBA_LeptolI_Scaffold_8241_GENE_270_SigP	16	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
3	UBA_LeptolIII_394_18_SigP	7	1	0	(C - Cytochrome c) # pl:9.67 MW:28371
3	UBA_LeptolI_Scaffold_8062_GENE_236_SigP	29	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
3	UBA_LeptolIII_395_29_SigP	29	0	0	(-) # pl:9.79 MW:70443
3	fer1_scaff_58_GENE_10_SigP	6	0	0	# Gene_name: Mdh # Function: Malate/lactate dehydrogenases # e-123 # pl:5.75 MW:34719
3	5way_CG_LeptolI_scaff_80_GENE_26_SigP	4	0	0	2-hydroxy-6-oxo-2,4-heptadieneoate hydrolase/TPR domain 1815422:1815994 forward # pl:9.67 MW:21223
3	UBA_LeptolIII_343_2_SigP	17	0	0	(M - Outer membrane protein) # pl:6.25 MW:49966
3	5way_CG_LeptolI_scaff_59_GENE_16_SigP	17	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
3	5way_CG_LeptolI_scaff_86_GENE_17_SigP	11	0	0	hypothetical protein 1859523:1860593 reverse # pl:9.14 MW:39110
3	5way_CG_LeptolI_scaff_30_GENE_22_SigP	45	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
3	5way_CG_LeptolI_scaff_51_GENE_20_SigP	4	0	0	hypothetical protein 1459861:1460295 reverse # pl:9.38 MW:16001
3	UBA_LeptolIII_398_127_SigP	18	2	0	(M - Outer membrane protein) # pl:9.46 MW:53453
3	5way_CG_LeptolI_scaff_167_GENE_7_SigP	30	0	0	hypothetical protein 2094828:2096972 reverse # pl:8.62 MW:78226
3	5way_CG_LeptolI_scaff_6_GENE_46_SigP	17	2	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
3	UBA_LeptolI_Scaffold_8241_GENE_469_SigP	12	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
3	5way_CG_LeptolI_scaff_69_GENE_29_SigP	8	0	0	hypothetical protein 1690146:1690733 forward # pl:6.65 MW:21276
3	5way_CG_LeptolI_scaff_21_GENE_53_SigP	8	0	0	hypothetical protein 759903:760511 reverse # pl:9.47 MW:21658
3	UBA_LeptolIII_378_9_SigP	31	0	0	(R - FOG: TPR repeat) # pl:9.56 MW:86065
3	5way_CG_LeptolI_scaff_27_GENE_13_SigP	33	0	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
3	UBA_LeptolIII_394_19_SigP	12	0	0	(C - Cytochrome c553) # pl:9.88 MW:26137
3	UBA_LeptolIII_394_52_SigP	17	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554
3	UBA_LeptolIII_394_29_SigP	27	0	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
3	Unass_bact_scaff_920_GENE_3_SigP	21	0	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
3	UBA_LeptolIII_397_88_SigP	8	0	0	(N - Flagellar basal-body P-ring protein) # pl:10.90 MW:37210
3	UBA_LeptolI_Scaffold_8241_GENE_256_SigP	12	0	0	Hypothetical protein 241268:241888 reverse # pl:10.64 MW:22967
3	5way_CG_LeptolI_scaff_59_GENE_28_SigP	12	0	0	hypothetical protein 1554663:1555283 forward # pl:10.76 MW:22906
3	5way_CG_LeptolI_scaff_22_GENE_28_SigP	4	0	0	hypothetical protein 794184:794561 reverse # pl:10.83 MW:14375
3	UBA_LeptolIII_371_18_SigP	6	0	0	(-) # pl:10.17 MW:18791
3	UBA_LeptolIII_389_19_SigP	2	0	0	(-) # pl:5.56 MW:10434
3	UBA_LeptolI_Scaffold_8049_GENE_47_SigP	10	0	0	Hypothetical protein 37752:38414 reverse # pl:9.93 MW:24100
3	5way_CG_LeptolI_scaff_46_GENE_16_SigP	15	5	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
3	UBA_LeptolI_Scaffold_7931_GENE_111_SigP	15	5	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
3	5way_CG_LeptolI_scaff_2_GENE_49_SigP	12	5	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
3	UBA_LeptolI_Scaffold_7931_GENE_186_SigP	12	5	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
3	UBA_LeptolIII_320_1_SigP	2	1	0	(-) # pl:4.92 MW:22809
3	5way_CG_LeptolI_scaff_14_GENE_26_SigP	8	2	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
3	UBA_LeptolI_Scaffold_8241_GENE_81_SigP	47	0	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
3	5way_CG_LeptolI_scaff_21_GENE_56_SigP	47	0	0	hypothetical protein 761096:761443 forward # pl:10.42 MW:12486
3	5way_CG_LeptolI_scaff_27_GENE_41_SigP	25	1	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
3	5way_CG_LeptolI_scaff_41_GENE_1_SigP	7	0	0	hypothetical protein 1173891:1174604 forward # pl:7.16 MW:25799
3	5way_CG_LeptolI_scaff_62_GENE_1_SigP	21	0	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
3	UBA_LeptolIII_377_5_SigP	6	0	0	(-) # pl:11.23 MW:25053
3	5way_CG_LeptolI_scaff_2_GENE_54_SigP	6	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
3	UBA_LeptolI_Scaffold_7931_GENE_191_SigP	9	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
3	5way_CG_LeptolI_scaff_22_GENE_18_SigP	25	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
3	5way_CG_LeptolI_scaff_45_GENE_1_SigP	7	0	0	hypothetical protein 1327401:1327739 forward # pl:8.96 MW:11861
3	UBA_LeptolI_Scaffold_7931_GENE_128_SigP	14	0	0	Type II secretory pathway
3	5way_CG_LeptolI_scaff_186_GENE_4_SigP	14	0	0	general secretion pathway GspD 2193892:2195559 forward # pl:9.57 MW:59267 , component PulD 133331:134998 forward # pl:9.57 MW:59267
3	UBA_LeptolIII_398_120_SigP	12	0	0	(-) # pl:9.55 MW:20727
3	UBA_LeptolI_Scaffold_8692_GENE_75_SigP	19	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
3	UBA_LeptolI_Scaffold_8062_GENE_38_SigP	19	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900

3	UBA_LeptolIII_396_49_SigP	4	0	0	(-) # pl:10.33 MW:17131
3	5way_CG_LeptolII_scaff_6_GENE_20_SigP	20	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
3	UBA_LeptolII_Scaffold_7931_GENE_73_SigP	17	0	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
3	5way_CG_LeptolII_scaff_66_GENE_6_SigP	17	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pl:5.78 MW:23665
3	UBA_LeptolII_Scaffold_8049_GENE_42a_SigP	3	0	0	Hypothetical protein 34331:34687 reverse # pl:9.86 MW:13687
3	Unass_bact_scaff_903_GENE_5_SigP	4	0	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
3	UBA_LeptolII_399_152_SigP	3	0	0	(-) # pl:9.44 MW:27087
3	UBA_LeptolIII_374_3_SigP	15	0	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
3	UBA_LeptolIII_375_22_SigP	4	0	0	(-) # pl:9.61 MW:31051
3	UBA_LeptolIII_352_3_SigP	9	0	0	(-) # pl:10.55 MW:21019
3	UBA_LeptolII_Scaffold_8692_GENE_49_SigP	38	0	0	FOG 51650:53845 reverse # pl:9.71 MW:84153
3	5way_CG_LeptolII_scaff_630_GENE_6_SigP	78	0	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
3	UBA_LeptolII_Scaffold_8241_GENE_570_SigP	25	0	0	Outer membrane protein 555547:557019 forward # pl:9.35 MW:54952
3	5way_CG_LeptolII_scaff_43_GENE_19_SigP	25	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
3	UBA_LeptolII_Scaffold_8524_GENE_101_SigP	17	0	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
3	5way_CG_LeptolII_scaff_3_GENE_101_SigP	3	0	0	hypothetical protein 235037:235543 forward # pl:10.62 MW:18410
3	UBA_LeptolII_Scaffold_8524_GENE_127_SigP	19	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pl:9.38 MW:87643
3	5way_CG_LeptolII_scaff_4_GENE_7_SigP	8	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
3	5way_CG_LeptolII_scaff_30_GENE_28_SigP	9	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
3	UBA_LeptolII_Scaffold_7931_GENE_349_SigP	8	0	0	Hypothetical protein 403648:404268 reverse # pl:6.14 MW:22293
3	5way_CG_LeptolII_scaff_86_GENE_19_SigP	8	0	0	hypothetical protein 1861083:1861703 reverse # pl:6.14 MW:22162
3	5way_CG_LeptolII_scaff_25_GENE_46_SigP	9	0	0	hypothetical protein 912913:913575 reverse # pl:10.04 MW:23895
3	UBA_LeptolII_Scaffold_8692_GENE_69_SigP	9	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
3	5way_CG_LeptolII_scaff_30_GENE_6_SigP	9	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
3	UBA_LeptolII_Scaffold_8135_GENE_81_SigP	11	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
3	UBA_LeptolII_Scaffold_8049_GENE_3_SigP	11	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
3	5way_CG_LeptolII_scaff_25_GENE_2_SigP	11	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
3	5way_CG_LeptolII_scaff_120_GENE_14_SigP	11	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
3	UBA_LeptolII_Scaffold_8524_GENE_235_SigP	18	0	0	Cytochrome c551/c552 219925:220257 reverse # pl:9.89 MW:11806
3	5way_CG_LeptolII_scaff_53_GENE_11_SigP	10	0	0	hypothetical protein 1475234:1476562 reverse # pl:9.99 MW:49997
3	5way_CG_LeptolII_scaff_66_GENE_9_SigP	5	0	0	hypothetical protein 1593933:1594931 forward # pl:5.00 MW:36982
3	5way_CG_LeptolII_scaff_80_GENE_19_SigP	6	2	0	thiol-disulfide isomerase 1807699:1808745 reverse # pl:8.70 MW:38966
3	UBA_LeptolII_Scaffold_8049_GENE_42_SigP	7	1	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108
3	UBA_LeptolII_Scaffold_8241_GENE_610_SigP	5	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
3	gpl_scaff_198_GENE_2_SigP	7	0	0	# Gene_name: FixC # Function: Dehydrogenases (flavoproteins) # e-36 # pl:6.27 MW:44603
3	5way_CG_LeptolII_scaff_8_GENE_58_SigP	13	0	0	cytochrome c-551 558486:558818 reverse # pl:10.02 MW:11872
3	5way_CG_LeptolII_scaff_271_GENE_7_SigP	7	0	0	hypothetical protein 2363290:2363745 forward # pl:9.40 MW:16789
3	UBA_LeptolIII_385_32_SigP	3	0	0	(-) # pl:9.77 MW:20414
3	5way_CG_LeptolII_scaff_59_GENE_29_SigP	14	0	0	outer membrane efflux protein 1555634:1557010 forward # pl:8.91 MW:51472
3	UBA_LeptolII_Scaffold_8062_GENE_118_SigP	3	0	0	Hypothetical protein 113559:113984 forward # pl:8.69 MW:15425
3	5way_CG_LeptolII_scaff_4_GENE_43_SigP	2	0	0	hypothetical protein 282883:283392 forward # pl:10.61 MW:19340
3	UBA_LeptolIII_384_35_SigP	5	0	0	(-) # pl:10.31 MW:19809
3	UBA_LeptolII_Scaffold_8241_GENE_539_SigP	7	0	0	Pyruvate 517295:517993 forward # pl:7.77 MW:25534
3	5way_CG_LeptolII_scaff_48_GENE_13_SigP	7	0	0	pyruvate ferredoxin oxidoreductase 1410418:1411116 reverse # pl:7.77 MW:25520
3	UBA_LeptolII_Scaffold_8062_GENE_268_SigP	6	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
3	UBA_LeptolIII_395_61_SigP	6	0	0	(-) # pl:9.73 MW:17490
3	5way_CG_LeptolII_scaff_265_GENE_14_SigP	6	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
3	UBA_LeptolII_Scaffold_8062_GENE_133_SigP	4	0	0	Hypothetical protein 138306:138929 forward # pl:9.11 MW:23422
3	UBA_LeptolIII_355_10_SigP	4	0	0	(-) # pl:9.09 MW:19511
3	UBA_LeptolII_Scaffold_8692_GENE_45_SigP	8	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
3	UBA_LeptolII_Scaffold_8241_GENE_149_SigP	29	0	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
3	UBA_LeptolII_Scaffold_7931_GENE_390_SigP	6	0	0	Hypothetical protein 448796:449512 reverse # pl:7.12 MW:25782
3	UBA_LeptolIII_396_41_SigP	2	0	0	(-) # pl:9.45 MW:17282
3	UBA_LeptolIII_397_15_SigP	17	0	0	(-) # pl:9.26 MW:29303
3	5way_CG_LeptolII_scaff_32_GENE_24_SigP	2	1	0	hypothetical protein 1095187:1095858 forward # pl:4.69 MW:23690
3	UBA_LeptolII_Scaffold_8692_GENE_133_SigP	6	0	0	Hypothetical protein 127591:128046 forward # pl:9.36 MW:16779
3	UBA_LeptolIII_388_19_SigP	4	0	0	(-) # pl:9.71 MW:22830
3	5way_CG_LeptolII_scaff_30_GENE_12_SigP	9	0	0	outer membrane efflux protein 1042734:1044158 forward # pl:6.61 MW:52107
3	5way_CG_LeptolII_scaff_175_GENE_9_SigP	10	0	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746
3	UBA_LeptolII_Scaffold_8241_GENE_248_SigP	4	0	0	Hypothetical protein 232386:233240 reverse # pl:9.32 MW:32282
3	UBA_LeptolII_Scaffold_8241_GENE_254_SigP	12	0	0	Outer membrane efflux protein 239540:240916 reverse # pl:8.91 MW:51398
3	UBA_LeptolIII_317_6_SigP	6	0	0	(C - Pyruvate:ferredoxin oxidoreductase and related 2-oxoacid:ferredoxin oxidoreductases, gamma subunit) # pl:8.83 MW:25186
3	UBA_LeptolII_Scaffold_8241_GENE_55_SigP	9	0	0	Conserved hypothetical protein 53795:55249 reverse # pl:8.85 MW:54208
3	5way_CG_LeptolII_scaff_32_GENE_36_SigP	8	0	0	hypothetical protein 1104400:1105929 forward # pl:4.32 MW:55077
3	UBA_LeptolIII_341_3_SigP	10	0	0	(R - FOG: TPR repeat) # pl:9.23 MW:30968
3	5way_CG_LeptolII_scaff_21_GENE_25_SigP	11	0	0	hypothetical protein 735291:736745 reverse # pl:7.80 MW:53899
3	UBA_LeptolII_Scaffold_8135_GENE_5_SigP	6	0	0	FOG 3195:4136 forward # pl:9.10 MW:34971
3	UBA_LeptolII_Scaffold_7931_GENE_76_SigP	4	0	0	undefined product 74592:75590 forward # pl:4.92 MW:36775
3	UBA_LeptolII_Scaffold_7931_GENE_281_SigP	5	0	0	Periplasmic protein involved in polysaccharide ex port 311387:312244 reverse # pl:9.91 MW:31407
3	5way_CG_LeptolII_scaff_7_GENE_28_SigP	5	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514

3	UBA_LeptolIII_370_17_SigP	3	1	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:10.30 MW:28861
3	UBA_LeptolII_Scaffold_8241_GENE_472_SigP	4	2	0	Thiol-disulfide isomerase and thioredoxins 451265:452311 forward # pl:7.73 MW:38930
3	Unass_arch_scaff_952_GENE_3_SigP	4	0	0	- # Function: Hypothetical protein # pl:9.38 MW:23467
3	UBA_LeptolII_399_159_SigP	12	0	0	(-) # pl:9.62 MW:23985
3	UBA_LeptolII_Scaffold_7931_GENE_363_SigP	3	0	0	Peroxioredoxin 418582:419157 forward # pl:9.67 MW:21131
3	UBA_LeptolII_Scaffold_8692_GENE_147_SigP	8	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
3	UBA_LeptolII_Scaffold_7931_GENE_352_SigP	5	0	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
3	UBA_LeptolII_Scaffold_8241_GENE_642a_SigP	2	0	0	Hypothetical protein 625625:626248 forward # pl:10.08 MW:22990
3	5way_CG_LeptolII_scaff_13_GENE_23_SigP	2	0	0	hypothetical protein 601832:602458 reverse # pl:10.17 MW:22930
3	gpl_scaff_238_GENE_7_SigP	2	0	0	- # Function: Hypothetical protein # pl:4.52 MW:22675
3	Unass_arch_scaff_986_GENE_2_SigP	10	0	0	# Gene_name: UgpB # Function: Sugar-binding periplasmic proteins/domains # e-47 # pl:5.75 MW:51639
3	UBA_LeptolII_355_4_SigP	5	0	0	(-) # pl:6.59 MW:21586
3	5way_CG_LeptolII_scaff_94_GENE_5_SigP	5	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
3	UBA_LeptolIII_388_39_SigP	9	0	0	(O - Thiol-disulfide isomerase and thioredoxins) # pl:6.21 MW:38783
3	UBA_LeptolII_Scaffold_8241_GENE_79_SigP	4	0	0	Hypothetical protein 78556:79164 reverse # pl:9.58 MW:21627
3	UBA_LeptolIII_353_6_SigP	2	1	0	(O - Thiol-disulfide isomerase and thioredoxins) # pl:9.78 MW:20913
3	5way_CG_LeptolII_scaff_25_GENE_41_SigP	3	0	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
3	UBA_LeptolII_Scaffold_8241_GENE_85_SigP	4	0	0	Putative secretion protein 84770:85819 reverse # pl:9.82 MW:37009
3	UBA_LeptolIII_384_28_SigP	2	0	0	(C - Malate/lactate dehydrogenases) # pl:6.34 MW:34591
3	UBA_LeptolII_Scaffold_8692_GENE_61_SigP	7	0	0	Outer membrane protein 61581:63005 reverse # pl:8.50 MW:52169
3	5way_CG_LeptolII_scaff_51_GENE_24_SigP	10	2	0	TonB-dependent receptor 1462305:1465229 reverse # pl:5.09 MW:104765
3	5way_CG_LeptolII_scaff_167_GENE_10_SigP	18	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
3	UBA_LeptolIII_362_23_SigP	4	0	0	(M - Outer membrane protein) # pl:7.76 MW:52412
3	5way_CG_LeptolII_scaff_14_GENE_4_SigP	6	0	0	hypothetical protein 648825:649448 forward # pl:9.19 MW:23376
3	UBA_LeptolII_Scaffold_8241_GENE_116_SigP	6	0	0	Hypothetical protein 114233:114904 reverse # pl:4.67 MW:23609
3	UBA_LeptolII_Scaffold_7931_GENE_377_SigP	4	0	0	undefined product 432399:433847 forward # pl:4.30 MW:52721
3	5way_CG_LeptolII_scaff_13_GENE_22_SigP	4	0	0	flagellar P-ring protein 600771:601835 reverse # pl:9.86 MW:37671
3	UBA_LeptolIII_393_1_SigP	4	0	0	(-) # pl:9.86 MW:24847
3	UBA_LeptolIII_329_1_SigP	2	1	0	(R - Phospholipid-binding protein) # pl:9.92 MW:17607
3	UBA_LeptolIII_376_10_SigP	5	3	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:11.35 MW:36547
3	5way_CG_LeptolII_scaff_44_GENE_17_SigP	5	0	0	malate dehydrogenase 1311610:1312572 forward # pl:6.14 MW:34712
3	5way_CG_LeptolII_scaff_630_GENE_3_SigP	3	0	0	hypothetical protein 2708442:2709209 forward # pl:9.62 MW:28389
3	Unass_bact_scaff_1134_GENE_1_SigP	3	0	0	- # Function: Hypothetical protein # pl:9.69 MW:13731
3	fer2_scaff_12_GENE_37_SigP	5	0	0	- # Function: Hypothetical protein # pl:8.94 MW:32472
3	UBA_LeptolIII_396_5_SigP	5	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
3	UBA_LeptolIII_394_47_SigP	3	2	0	(-) # pl:10.39 MW:25595
3	UBA_LeptolIII_394_7_SigP	3	0	0	(-) # pl:4.70 MW:28104
3	5way_CG_LeptolII_scaff_62_GENE_5_SigP	5	0	0	hypothetical protein 1560383:1561324 forward # pl:8.96 MW:35059
3	UBA_LeptolIII_397_86_SigP	2	0	0	(-) # pl:8.92 MW:22518
3	UBA_LeptolII_Scaffold_8241_GENE_544_SigP	3	0	0	Hypothetical protein 522023:522568 forward # pl:9.54 MW:20235
3	5way_CG_LeptolII_scaff_22_GENE_33_SigP	13	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
3	UBA_LeptolII_Scaffold_8241_GENE_690_SigP	17	0	0	Hypothetical protein 681251:682891 forward # pl:4.70 MW:59054
3	UBA_LeptolIII_350_16_SigP	2	0	0	(-) # pl:9.27 MW:20513
3	UBA_LeptolII_Scaffold_8692_GENE_159_SigP	4	0	0	Hypothetical protein 155900:156457 reverse # pl:5.84 MW:20310
3	UBA_LeptolII_Scaffold_8241_GENE_381_SigP	4	0	0	DNA uptake lipoprotein 359495:360226 reverse # pl:9.91 MW:28875
3	5way_CG_LeptolII_scaff_3_GENE_90_SigP	4	0	0	competence protein ComL 223253:223984 reverse # pl:9.91 MW:28824
3	UBA_LeptolII_Scaffold_8062_GENE_44_SigP	4	0	0	Hypothetical protein 44570:45088 forward # pl:11.13 MW:19316
3	UBA_LeptolIII_390_44_SigP	12	0	0	(-) # pl:7.72 MW:17434
3	UBA_LeptolIII_307_1_SigP	12	0	0	(-) # pl:9.55 MW:17070
3	UBA_LeptolII_Scaffold_8049_GENE_375_SigP	3	0	0	undefined product 357444:357965 forward # pl:9.75 MW:19619
3	UBA_LeptolII_Scaffold_8692_GENE_161_SigP	7	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
3	UBA_LeptolII_Scaffold_8062_GENE_258_SigP	2	0	0	Hypothetical protein 266641:267096 forward # pl:10.18 MW:17026
3	UBA_LeptolIII_395_51_SigP	2	0	0	(-) # pl:10.18 MW:17026
3	5way_CG_LeptolII_scaff_27_GENE_35_SigP	2	0	0	hypothetical protein 1011242:1011697 forward # pl:10.11 MW:17026
3	UBA_LeptolII_Scaffold_8241_GENE_103_SigP	7	0	0	undefined product 104291:105808 reverse # pl:4.37 MW:54784
3	UBA_LeptolIII_395_59_SigP	2	0	0	(-) # pl:9.43 MW:19080
3	5way_CG_LeptolII_scaff_41_GENE_16_SigP	2	0	0	hypothetical protein 1189524:1190972 reverse # pl:4.22 MW:52723
3	UBA_LeptolIII_382_22_SigP	7	1	0	(U - Periplasmic component of the Tol biopolymer transport system) # pl:9.05 MW:48786
3	UBA_LeptolIII_390_27_SigP	3	0	0	(-) # pl:11.52 MW:26393
3	UBA_LeptolIII_376_8_SigP	5	0	0	(R - FOG: TPR repeat, SEL1 subfamily) # pl:9.53 MW:62895
3	UBA_LeptolIII_398_147_SigP	4	0	0	(-) # pl:4.21 MW:48475
3	UBA_LeptolIII_376_20_SigP	4	0	0	(-) # pl:4.42 MW:51488
3	UBA_LeptolIII_355_9_SigP	3	0	0	(S - Uncharacterized conserved protein) # pl:9.46 MW:33323
3	UBA_LeptolII_Scaffold_8524_GENE_165_SigP	5	0	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
3	UBA_LeptolIII_379_16_SigP	8	0	0	(-) # pl:9.95 MW:71809
3	5way_CG_LeptolII_scaff_287_GENE_4_SigP	2	0	0	hypothetical protein 2399359:2399979 reverse # pl:8.69 MW:22528
3	UBA_LeptolII_Scaffold_8049_GENE_135_SigP	5	0	0	Hypothetical protein 128406:129443 forward # pl:9.23 MW:39749
3	5way_CG_LeptolII_scaff_33_GENE_19_SigP	5	0	0	hypothetical protein 1141204:1142241 forward # pl:9.23 MW:39749
3	UBA_LeptolII_Scaffold_8524_GENE_98_SigP	2	0	0	undefined product 87262:87864 forward # pl:7.20 MW:22096
3	5way_CG_LeptolII_scaff_6_GENE_49_SigP	2	0	0	hypothetical protein 381976:382578 reverse # pl:7.20 MW:22159

3	5way_CG_LeptolI_scaff_71_GENE_14_SigP	4	1	0	hypothetical protein 1704479:1705651 reverse # pI:9.44 MW:43258
3	UBA_LeptolI_Scaffold_8062_GENE_328_SigP	3	0	0	Hypothetical protein 324826:325257 reverse # pI:10.44 MW:15667
3	UBA_LeptolI_Scaffold_8241_GENE_643_SigP	3	0	0	Flagellar basal-body P-ring protein 626248:627312 forward # pI:9.81 MW:37404
3	UBA_LeptolI_Scaffold_8692_GENE_5_SigP	2	0	0	Hypothetical protein 4993:5544 forward # pI:10.17 MW:19972
3	UBA_LeptolIII_364_29_SigP	4	0	0	(P - Cytochrome c peroxidase) # pI:9.51 MW:36728
3	UBA_LeptolIII_371_19_SigP	2	0	0	(-) # pI:5.44 MW:21984
3	UBA_LeptolI_Scaffold_8241_GENE_196_SigP	8	0	0	Putative methyl-accepting chemotaxis protein 183744:185417 reverse # pI:8.32 MW:61190
3	5way_CG_LeptolI_scaff_4_GENE_62_SigP	8	0	0	methyl-accepting chemotaxis protein 301193:302866 forward # pI:8.95 MW:60984
3	5way_CG_LeptolI_scaff_41_GENE_29_SigP	2	0	0	bacterioferritin comigratory protein/peroxiredoxin 1204208:1204783 reverse # pI:9.67 MW:21373
3	5way_CG_LeptolI_scaff_96_GENE_5_SigP	4	0	0	hypothetical protein 1906272:1907108 forward # pI:11.31 MW:30636
3	fer1_scaff_58_GENE_9_SigP	5	0	0	# Gene_name: SdhA # Function: Succinate dehydrogenase/fumarate reductase, flavoprotein subunits # e-145 # pI:5.89 MW:62615
3	UBA_LeptolI_Scaffold_8692_GENE_129_SigP	3	0	0	Uncharacterized NAD(FAD)-dependent dehydrogenases 123535:124674 reverse # pI:7.78 MW:42008
3	5way_CG_LeptolI_scaff_271_GENE_3_SigP	3	0	0	flavoprotein oxidoreductase 2359237:2360376 reverse # pI:7.21 MW:42034
3	UBA_LeptolIII_374_9_SigP	3	0	0	(R - Uncharacterized NAD(FAD)-dependent dehydrogenases) # pI:8.31 MW:42014
3	UBA_LeptolIII_334_11_SigP	3	0	0	(-) # pI:4.68 MW:19133
3	UBA_LeptolI_Scaffold_8062_GENE_26_SigP	2	0	0	Hypothetical protein 27591:28298 forward # pI:11.34 MW:26068
3	5way_CG_LeptolI_scaff_98_GENE_4_SigP	2	0	0	hypothetical protein 1928434:1929141 forward # pI:11.10 MW:26097
3	5way_CG_LeptolI_scaff_68_GENE_16_SigP	4	0	0	hypothetical protein 1654556:1655425 forward # pI:9.89 MW:31842
3	UBA_LeptolI_Scaffold_7931_GENE_311_SigP	7	1	0	FOG 348657:351887 forward # pI:9.10 MW:118365
3	UBA_LeptolI_Scaffold_8027_GENE_31_SigP	3	0	0	Malate/lactate dehydrogenases 32641:33603 forward # pI:6.37 MW:34682
3	UBA_LeptolI_Scaffold_8241_GENE_524_SigP	4	0	0	Parvulin-like peptidyl-prolyl isomerase 502388:503257 reverse # pI:9.96 MW:32363
3	5way_CG_LeptolI_scaff_32_GENE_53_SigP	2	0	0	efflux transporter 1124403:1125452 forward # pI:10.38 MW:37076
3	UBA_LeptolIII_378_23_SigP	6	3	0	(M - N-acetylmuramoyl-L-alanine amidase) # pI:11.03 MW:51742
3	UBA_LeptolIII_391_18_SigP	9	0	0	(-) # pI:4.44 MW:33956
3	5way_CG_LeptolI_scaff_183_GENE_6_SigP	3	0	0	hypothetical protein 2174071:2174934 forward # pI:9.26 MW:31876
3	UBA_LeptolI_Scaffold_8062_GENE_264_SigP	3	0	0	undefined product 270540:271802 forward # pI:5.82 MW:46323
3	UBA_LeptolIII_395_57_SigP	3	0	0	(-) # pI:5.82 MW:46323
3	fer2_scaff_19_GENE_44_SigP	2	0	0	# Gene_name: Mdh # Function: Malate/lactate dehydrogenases # e-123 # pI:5.60 MW:34813
3	5way_CG_LeptolI_scaff_2_GENE_44_SigP	4	0	0	soluble lytic transglycosylase 48347:50407 reverse # pI:10.33 MW:77488
3	Unass_bact_scaff_760_GENE_4_SigP	4	0	0	- # Function: Hypothetical protein # pI:9.70 MW:33321
3	UBA_LeptolIII_364_25_SigP	4	0	0	(-) # pI:9.61 MW:34394
3	5way_CG_LeptolI_scaff_25_GENE_36_SigP	2	0	0	hypothetical protein 905024:905989 forward # pI:8.99 MW:35890
3	UBA_LeptolI_Scaffold_7931_GENE_123_SigP	2	0	0	Cytochrome c 128461:129270 forward # pI:9.68 MW:29622
3	5way_CG_LeptolI_scaff_46_GENE_28_SigP	2	0	0	cytochrome c 1396147:1396956 forward # pI:9.68 MW:29622
3	UBA_LeptolI_Scaffold_7931_GENE_121_SigP	2	0	0	Cytochrome c553 126894:127571 forward # pI:9.77 MW:24552
3	5way_CG_LeptolI_scaff_46_GENE_26_SigP	2	0	0	cytochrome c 1394580:1395257 forward # pI:9.77 MW:24552
3	5way_CG_LeptolI_scaff_53_GENE_17_SigP	3	0	0	hypothetical protein 1482065:1483813 reverse # pI:10.58 MW:67070
3	UBA_LeptolI_Scaffold_8241_GENE_21_SigP	2	0	0	Putative phospholipid binding protein 18471:19037 reverse # pI:9.81 MW:20481
3	5way_CG_LeptolI_scaff_42_GENE_24_SigP	2	0	0	phospholipid binding protein 1231067:1231633 reverse # pI:9.76 MW:20276
3	5way_CG_LeptolI_scaff_175_GENE_13_SigP	3	0	0	hypothetical protein 2150236:2151432 forward # pI:8.93 MW:43119
3	UBA_LeptolI_Scaffold_7931_GENE_181_SigP	3	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pI:10.33 MW:77941
3	5way_CG_LeptolI_scaff_48_GENE_30_SigP	3	0	0	peptidyl-prolyl cis-trans isomerase 1425137:1426006 forward # pI:9.84 MW:32345
3	UBA_LeptolI_Scaffold_8062_GENE_114_SigP	6	0	0	Outer membrane receptor for Fe3+-dicitrate 108626:111550 forward # pI:5.10 MW:104983
3	UBA_LeptolIII_397_17_SigP	3	0	0	(C - Cytochrome c, mono- and diheme variants) # pI:8.76 MW:75626
3	5way_CG_LeptolI_scaff_53_GENE_26_SigP	2	0	0	hypothetical protein 1495267:1496724 reverse # pI:10.11 MW:49724
3	5way_CG_LeptolI_scaff_59_GENE_6_SigP	2	0	0	acid phosphatase 1535913:1536902 forward # pI:9.49 MW:37053
3	UBA_LeptolIII_354_2_SigP	2	0	0	(-) # pI:7.82 MW:16492
3	5way_CG_LeptolI_scaff_25_GENE_28_SigP	2	1	0	organic solvent tolerance protein 895833:898136 forward # pI:4.82 MW:84724
3	UBA_LeptolIII_391_22_SigP	4	0	0	(R - FOG: TPR repeat) # pI:8.84 MW:118396
3	5way_CG_LeptolI_scaff_865_GENE_1_SigP	5	0	0	hypothetical protein 2820338:2820835 forward # pI:4.07 MW:17740
3	UBA_LeptolI_Scaffold_7931_GENE_347_SigP	2	0	0	Hypothetical protein 402145:403218 reverse # pI:8.65 MW:39325
3	UBA_LeptolIII_399_73_SigP	3	0	0	(P - Outer membrane receptor for Fe3+-dicitrate) # pI:5.29 MW:103588
3	UBA_LeptolI_Scaffold_8241_GENE_222_SigP	3	0	0	Conserved hypothetical protein 207736:209895 reverse # pI:10.15 MW:82415
3	Unass_arch_scaff_525_GENE_5_SigP	3	0	0	- # Function: Hypothetical protein # pI:8.03 MW:70772
3	UBA_LeptolIII_397_75_SigP	5	0	0	(N - Methyl-accepting chemotaxis protein) # pI:8.58 MW:61775
3	UBA_LeptolIII_354_17_SigP	2	0	0	(-) # pI:4.40 MW:32620
3	fer1_scaff_300_GENE_5_SigP	2	0	0	# Gene_name: FadB # Function: 3-Hydroxyacyl-CoA dehydrogenase # e-118 # pI:5.47 MW:71148
3	UBA_LeptolIII_390_31_SigP	4	0	0	(N - Methyl-accepting chemotaxis protein) # pI:6.86 MW:60789
3	5way_CG_LeptolI_scaff_4_GENE_32_SigP	2	0	0	hypothetical protein 271575:273734 forward # pI:10.25 MW:82156
3	UBA_LeptolI_Scaffold_8062_GENE_68_SigP	2	0	0	Type IV secretory pathway, VirD4 components 65544:67637 reverse # pI:8.81 MW:76328
3	fer2_scaff_1_GENE_61_SigP	2	0	0	# Gene_name: FadB # Function: 3-Hydroxyacyl-CoA dehydrogenase # e-119 # pI:5.27 MW:71613
3	UBA_LeptolI_Scaffold_7931_GENE_122_SigP	2	0	0	Cytochrome c 127587:128396 forward # pI:9.97 MW:29736
3	5way_CG_LeptolI_scaff_46_GENE_27_SigP	2	0	0	cytochrome c 1395273:1396082 forward # pI:9.97 MW:29736
3	fer2_scaff_182_GENE_6_SigP	2	0	0	# Gene_name: OppA # Function: ABC-type dipeptide/oligopeptide/nickel transport systems, periplasmic components # e-105 # pI:4.89 MW:77283
3	gpl_scaff_79_GENE_13_SigP	2	0	0	- # Function: Hypothetical protein # pI:8.65 MW:125166
3	5way_CG_LeptolI_scaff_22_GENE_31_SigP	2	0	0	cyclic di-GMP binding protein 798254:800467 reverse # pI:10.53 MW:82852
3	UBA_LeptolI_Scaffold_8049_GENE_61_SigP	2	0	0	Carbamoylphosphate synthase large subunit (split gene in MJ) 47956:51198 forward # pI:5.25 MW:117734
3	5way_CG_LeptolI_scaff_25_GENE_59_SigP	2	0	0	carbamoyl phosphate synthetase, large subunit 923120:926362 forward # pI:5.23 MW:118004

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of UBA Sample Set - Run 1

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
1	5way_CG_Leptoll_scaff_25_GENE_2_SigP	2	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
1	5way_CG_Leptoll_scaff_2_GENE_49_SigP	9	0	0	hypothetical protein 56459:57175 forward # pl:10.26 MW:26877
1	5way_CG_Leptoll_scaff_96_GENE_7_SigP	15	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
1	5way_CG_Leptoll_scaff_96_GENE_6_SigP	4	0	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
1	5way_CG_Leptoll_scaff_3_GENE_4_SigP	180	0	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
1	5way_CG_Leptoll_scaff_3_GENE_58_SigP	6	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
1	5way_CG_Leptoll_scaff_8_GENE_23_SigP	16	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
1	5way_CG_Leptoll_scaff_3_GENE_5_SigP	159	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
1	5way_CG_Leptoll_scaff_8_GENE_20_SigP	14	0	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
1	5way_CG_Leptoll_scaff_3_GENE_6_Sig	2	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
1	5way_CG_Leptoll_scaff_7_GENE_28_SigP	14	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
1	5way_CG_Leptoll_scaff_6_GENE_20_SigP	3	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
1	5way_CG_Leptoll_scaff_6_GENE_19_SigP	84	0	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
1	5way_CG_Leptoll_scaff_66_GENE_6_SigP	21	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pl:5.78 MW:23665
1	5way_CG_Leptoll_scaff_62_GENE_1_SigP	11	0	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
1	5way_CG_Leptoll_scaff_46_GENE_4_SigP	31	0	0	hypothetical protein 1366599:1366910 forward # pl:9.43 MW:11021
1	5way_CG_Leptoll_scaff_4_GENE_2_SigP	27	0	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
1	5way_CG_Leptoll_scaff_4_GENE_16_SigP	61	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
1	UBA_LeptolIII_399_123_SigP	25	3	0	(-) # pl:9.93 MW:19208
1	UBA_LeptolIII_394_71_SigP	15	1	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
1	UBA_LeptolIII_388_1_SigP	58	1	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
1	UBA_LeptolIII_390_49_SigP	524	18	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
1	UBA_LeptolIII_398_122_SigP	42	15	0	(-) # pl:9.92 MW:13689
1	UBA_LeptolIII_399_92_SigP	168	58	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
1	UBA_LeptolIII_374_3_SigP	29	5	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
1	UBA_LeptolIII_373_5_SigP	25	0	0	(-) # pl:9.91 MW:21663
1	UBA_LeptolIII_398_2_SigP	163	3	0	(-) # pl:10.81 MW:15675
1	UBA_LeptolIII_375_20_SigP	11	0	0	(-) # pl:9.30 MW:13970
1	UBA_LeptolIII_394_70_SigP	16	2	0	(-) # pl:10.49 MW:18094
1	UBA_LeptolIII_396_81_SigP	8	0	0	(-) # pl:9.87 MW:18141
1	UBA_LeptolIII_399_60_SigP	24	1	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
1	UBA_LeptolIII_364_1_SigP	48	0	0	(-) # pl:10.85 MW:12350
1	UBA_LeptolIII_391_4_SigP	15	0	0	(-) # pl:10.15 MW:22759
1	UBA_LeptolIII_394_36_SigP	41	0	0	(-) # pl:6.54 MW:55063
1	UBA_LeptolIII_353_2_SigP	43	0	0	(-) # pl:9.33 MW:31803
1	UBA_LeptolIII_391_32_SigP	10	0	0	(M - Periplasmic protein involved in polysaccharide export) # pl:9.52 MW:31336
1	UBA_LeptolIII_394_10_SigP	7	2	0	(-) # pl:11.06 MW:18504
1	UBA_LeptolIII_356_3_SigP	18	5	0	(-) # pl:6.60 MW:24706
1	UBA_LeptolIII_361_11_SigP	12	0	0	(-) # pl:9.66 MW:26334
1	UBA_LeptolIII_351_1_SigP	22	0	0	(-) # pl:9.75 MW:19719
1	UBA_LeptolIII_336_16_SigP	22	0	0	(-) # pl:9.75 MW:19719
1	UBA_LeptolIII_328_11_SigP	63	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
1	UBA_LeptolIII_394_7_SigP	23	0	0	(-) # pl:4.70 MW:28104
1	UBA_LeptolIII_395_29_SigP	40	0	0	(-) # pl:9.79 MW:70443
1	UBA_LeptolIII_361_10_SigP	32	1	0	(-) # pl:9.57 MW:54911
1	UBA_LeptolIII_397_16_SigP	16	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:9.97 MW:35837
1	UBA_LeptolIII_393_44_SigP	11	0	0	(-) # pl:9.02 MW:37913
1	UBA_LeptolIII_394_29_SigP	10	2	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
1	5way_CG_Leptoll_scaff_178_GENE_9_SigP	3	3	0	hypothetical protein 2162891:2163295 forward # pl:9.92 MW:13785
1	Unass_bact_scaff_1152_GENE_4_SigP	20	0	0	- # Function: Hypothetical protein # pl:4.54 MW:27258
1	Unass_bact_scaff_920_GENE_3_SigP	9	2	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
1	UBA_LeptolIII_395_59_SigP	7	0	0	(-) # pl:9.43 MW:19080
1	UBA_LeptolIII_371_18_SigP	8	0	0	(-) # pl:10.17 MW:18791
1	UBA_LeptolIII_373_28_SigP	7	0	0	(-) # pl:9.63 MW:30028
1	UBA_LeptolIII_364_29_SigP	6	0	0	(P - Cytochrome c peroxidase) # pl:9.51 MW:36728
1	UBA_LeptolIII_377_5_SigP	8	0	0	(-) # pl:11.23 MW:25053
1	5way_CG_Leptoll_scaff_23_GENE_15_SigP	67	67	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
1	UBA_LeptolIII_384_12_SigP	15	0	0	(-) # pl:10.43 MW:24691

1	UBA_LeptolIII_382_21_SigP	3	0	0	(S - Uncharacterized protein conserved in bacteria) # pl:9.37 MW:30574
1	UBA_LeptolIII_397_15_SigP	6	0	0	(-) # pl:9.26 MW:29303
1	UBA_LeptolIII_329_1_SigP	6	3	0	(R - Phospholipid-binding protein) # pl:9.92 MW:17607
1	5way_CG_LeptolII_scaff_3_GENE_4_SigP	16	16	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
1	UBA_LeptolIII_314_4_SigP	23	0	0	(-) # pl:10.05 MW:15038
1	UBA_LeptolIII_370_17_SigP	3	2	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:10.30 MW:28861
1	UBA_LeptolIII_394_52_SigP	7	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554
1	UBA_LeptolIII_388_39_SigP	3	0	0	(O - Thiol-disulfide isomerase and thioredoxins) # pl:6.21 MW:38783
1	UBA_LeptolIII_399_94_SigP	4	1	0	(-) # pl:4.49 MW:57767
1	UBA_LeptolIII_382_13_SigP	5	0	0	(-) # pl:9.79 MW:36778
1	5way_CG_LeptolII_scaff_297_GENE_7_SigP	2	2	0	hypothetical protein 2438911:2439261 reverse # pl:5.94 MW:13135
1	UBA_LeptolIII_395_57_SigP	6	0	0	(-) # pl:5.82 MW:46323
1	UBA_LeptolIII_398_1_SigP	3	0	0	(-) # pl:5.16 MW:9995
1	UBA_LeptolIII_390_44_SigP	8	0	0	(-) # pl:7.72 MW:17434
1	UBA_LeptolIII_307_1_SigP	8	0	0	(-) # pl:9.55 MW:17070
1	UBA_LeptolIII_379_16_SigP	4	0	0	(-) # pl:9.95 MW:71809
1	UBA_LeptolIII_394_18_SigP	3	0	0	(C - Cytochrome c) # pl:9.67 MW:28371
1	5way_CG_LeptolII_scaff_46_GENE_16_SigP	9	9	0	cytochrome c 1378692:1379510 reverse # pl:10.25 MW:29786
1	UBA_LeptolIII_341_3_SigP	2	0	0	(R - FOG: TPR repeat) # pl:9.23 MW:30968
1	UBA_LeptolIII_399_152_SigP	2	0	0	(-) # pl:9.44 MW:27087
1	Unass_bact_scaff_903_GENE_5_SigP	2	0	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
1	UBA_LeptolIII_374_9_SigP	2	0	0	(R - Uncharacterized NAD(FAD)-dependent dehydrogenases) # pl:8.31 MW:42014
1	UBA_LeptolIII_396_5_SigP	2	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
1	5way_CG_LeptolII_scaff_374_GENE_7_SigP	6	6	0	hypothetical protein 2509255:2509746 reverse # pl:10.74 MW:18454
1	5way_CG_LeptolII_scaff_8_GENE_36_SigP	2	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
1	UBA_LeptolIII_378_23_SigP	5	1	0	(M - N-acetylmuramoyl-L-alanine amidase) # pl:11.03 MW:51742
1	UBA_LeptolIII_391_18_SigP	28	0	0	(-) # pl:4.44 MW:33956
1	5way_CG_LeptolII_scaff_2_GENE_49_SigP	3	3	0	hypothetical protein 56459:57175 forward # pl:10.26 MW:26877
1	UBA_LeptolII_Scaffold_8241_GENE_693_SigP	77	77	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
1	UBA_LeptolIII_398_147_SigP	2	0	0	(-) # pl:4.21 MW:48475
1	UBA_LeptolIII_376_20_SigP	2	0	0	(-) # pl:4.42 MW:51488
1	5way_CG_LeptolII_scaff_6_GENE_19_SigP	9	9	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
1	5way_CG_LeptolII_scaff_2_GENE_54_SigP	2	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
1	5way_CG_LeptolII_scaff_62_GENE_10_SigP	23	23	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of UBA Sample Set - Run 2

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
2	5way_CG_LeptolI_scaff_25_GENE_2_SigP	2	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
2	5way_CG_LeptolI_scaff_2_GENE_40_SigP	5	0	0	hypothetical protein 56459:57175 forward # pl:10.26 MW:26877
2	5way_CG_LeptolI_scaff_2_GENE_49_SigP	12	0	0	hypothetical protein 56459:57175 forward # pl:10.26 MW:26877
2	5way_CG_LeptolI_scaff_3_GENE_4_SigP	173	0	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
2	5way_CG_LeptolI_scaff_96_GENE_7_SigP	19	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
2	5way_CG_LeptolI_scaff_3_GENE_58_SigP	5	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
2	5way_CG_LeptolI_scaff_3_GENE_5_SigP	113	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
2	5way_CG_LeptolI_scaff_8_GENE_36_SigP	4	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
2	5way_CG_LeptolI_scaff_3_GENE_6_SigP	4	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
2	5way_CG_LeptolI_scaff_8_GENE_23_SigP	12	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
2	5way_CG_LeptolI_scaff_8_GENE_20_SigP	11	0	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
2	5way_CG_LeptolI_scaff_86_GENE_7_SigP	4	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
2	5way_CG_LeptolI_scaff_7_GENE_28_SigP	18	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
2	5way_CG_LeptolI_scaff_6_GENE_20_SigP	4	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
2	5way_CG_LeptolI_scaff_6_GENE_19_SigP	87	0	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
2	5way_CG_LeptolI_scaff_66_GENE_6_SigP	23	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pl:5.78 MW:23665
2	5way_CG_LeptolI_scaff_46_GENE_4_SigP	56	0	0	hypothetical protein 1366599:1366910 forward # pl:9.43 MW:11021
2	5way_CG_LeptolI_scaff_62_GENE_1_SigP	17	0	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
2	5way_CG_LeptolI_scaff_4_GENE_16_SigP	60	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
2	5way_CG_LeptolI_scaff_4_GENE_2_Sig	55	0	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
2	UBA_LeptolIII_398_122_SigP	51	16	0	(-) # pl:9.92 MW:13689
2	UBA_LeptolIII_399_123_SigP	23	2	0	(-) # pl:9.93 MW:19208
2	UBA_LeptolIII_388_1_SigP	71	2	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
2	UBA_LeptolIII_390_49_SigP	436	14	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
2	UBA_LeptolIII_399_92_SigP	150	42	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
2	UBA_LeptolIII_394_10_SigP	20	1	0	(-) # pl:11.06 MW:18504
2	UBA_LeptolIII_328_11_SigP	36	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
2	UBA_LeptolIII_374_3_SigP	28	5	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
2	UBA_LeptolIII_398_2_SigP	217	2	0	(-) # pl:10.81 MW:15675
2	UBA_LeptolIII_394_70_SigP	13	3	0	(-) # pl:10.49 MW:18094
2	UBA_LeptolIII_394_36_SigP	39	0	0	(-) # pl:6.54 MW:55063
2	UBA_LeptolIII_353_2_SigP	46	0	0	(-) # pl:9.33 MW:31803
2	UBA_LeptolIII_394_71_SigP	24	0	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
2	UBA_LeptolIII_391_32_SigP	20	0	0	(M - Periplasmic protein involved in polysaccharide export) # pl:9.52 MW:31336
2	UBA_LeptolIII_375_20_SigP	7	0	0	(-) # pl:9.30 MW:13970
2	UBA_LeptolIII_364_1_SigP	71	0	0	(-) # pl:10.85 MW:12350
2	UBA_LeptolIII_373_5_SigP	25	0	0	(-) # pl:9.91 MW:21663
2	UBA_LeptolIII_351_1_SigP	26	0	0	(-) # pl:9.75 MW:19719
2	UBA_LeptolIII_336_16_SigP	26	0	0	(-) # pl:9.75 MW:19719
2	UBA_LeptolIII_395_59_SigP	8	0	0	(-) # pl:9.43 MW:19080
2	UBA_LeptolIII_356_3_SigP	11	2	0	(-) # pl:6.60 MW:24706
2	UBA_LeptolIII_393_44_SigP	16	0	0	(-) # pl:9.02 MW:37913
2	UBA_LeptolIII_394_47_SigP	7	1	0	(-) # pl:10.39 MW:25595
2	UBA_LeptolIII_397_16_SigP	17	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:9.97 MW:35837
2	UBA_LeptolIII_396_81_SigP	7	1	0	(-) # pl:9.87 MW:18141
2	UBA_LeptolIII_394_7_SigP	21	0	0	(-) # pl:4.70 MW:28104
2	UBA_LeptolIII_361_10_SigP	14	0	0	(-) # pl:9.57 MW:54911
2	UBA_LeptolIII_382_21_SigP	8	0	0	(S - Uncharacterized protein conserved in bacteria) # pl:9.37 MW:30574
2	UBA_LeptolIII_314_4_SigP	26	2	0	(-) # pl:10.05 MW:15038
2	UBA_LeptolIII_391_4_SigP	7	0	0	(-) # pl:10.15 MW:22759
2	5way_CG_LeptolI_scaff_178_GENE_9_SigP	8	8	0	hypothetical protein 2162891:2163295 forward # pl:9.92 MW:13785
2	UBA_LeptolIII_364_29_SigP	8	0	0	(P - Cytochrome c peroxidase) # pl:9.51 MW:36728
2	Unass_bact_scaff_1152_GENE_4_SigP	17	0	0	- # Function: Hypothetical protein # pl:4.54 MW:27258
2	UBA_LeptolIII_361_11_SigP	12	0	0	(-) # pl:9.66 MW:26334
2	UBA_LeptolIII_398_36_SigP	2	0	0	(-) # pl:7.93 MW:16526
2	UBA_LeptolIII_397_15_SigP	5	0	0	(-) # pl:9.26 MW:29303
2	UBA_LeptolIII_384_12_SigP	8	0	0	(-) # pl:10.43 MW:24691
2	UBA_LeptolIII_388_39_SigP	6	1	0	(O - Thiol-disulfide isomerase and thioredoxins) # pl:6.21 MW:38783
2	UBA_LeptolIII_373_28_SigP	4	0	0	(-) # pl:9.63 MW:30028
2	UBA_LeptolIII_399_60_SigP	11	2	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
2	5way_CG_LeptolI_scaff_23_GENE_15_SigP	45	45	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
2	UBA_LeptolIII_394_52_SigP	10	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554

2	UBA_Leptolli_395_29_SigP	19	0	0	(-) # pl:9.79 MW:70443
2	UBA_Leptolli_Scaffold_8241_GENE_297_SigP	5	5	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
2	UBA_Leptolli_394_29_SigP	7	1	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
2	Unass_bact_scaff_920_GENE_3_SigP	7	1	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
2	UBA_Leptolli_370_17_SigP	2	1	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:10.30 MW:28861
2	UBA_Leptolli_398_1_SigP	4	0	0	(-) # pl:5.16 MW:9995
2	UBA_Leptolli_382_13_SigP	11	0	0	(-) # pl:9.79 MW:36778
2	5way_CG_Leptolli_scaff_3_GENE_4_SigP	3	3	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
2	UBA_Leptolli_352_3_SigP	2	0	0	(-) # pl:10.55 MW:21019
2	UBA_Leptolli_377_5_SigP	3	0	0	(-) # pl:11.23 MW:25053
2	UBA_Leptolli_371_18_SigP	3	0	0	(-) # pl:10.17 MW:18791
2	5way_CG_Leptolli_scaff_297_GENE_7_SigP	2	2	0	hypothetical protein 2438911:2439261 reverse # pl:5.94 MW:13135
2	UBA_Leptolli_399_94_SigP	3	1	0	(-) # pl:4.49 MW:57767
2	UBA_Leptolli_394_55_SigP	2	0	0	(-) # pl:11.03 MW:11573
2	UBA_Leptolli_396_5_SigP	7	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
2	UBA_Leptolli_394_18_SigP	7	0	0	(C - Cytochrome c) # pl:9.67 MW:28371
2	UBA_Leptolli_390_44_SigP	8	0	0	(-) # pl:7.72 MW:17434
2	UBA_Leptolli_307_1_SigP	8	0	0	(-) # pl:9.55 MW:17070
2	Unass_bact_scaff_930_GENE_4_SigP	2	0	0	- # Function: Hypothetical protein # pl:10.63 MW:15837
2	UBA_Leptolli_359_19_SigP	2	0	0	(-) # pl:10.63 MW:15837
2	5way_CG_Leptolli_scaff_46_GENE_16_SigP	8	8	0	cytochrome c 1378692:1379510 reverse # pl:10.25 MW:29786
2	UBA_Leptolli_379_16_SigP	6	0	0	(-) # pl:9.95 MW:71809
2	UBA_Leptolli_399_64_SigP	3	0	0	(-) # pl:9.80 MW:25377
2	UBA_Leptolli_341_3_SigP	2	0	0	(R - FOG: TPR repeat) # pl:9.23 MW:30968
2	5way_CG_Leptolli_scaff_81_GENE_24_SigP	2	2	0	hypothetical protein 1833499:1833888 forward # pl:10.05 MW:15038
2	UBA_Leptolli_395_57_SigP	3	0	0	(-) # pl:5.82 MW:46323
2	5way_CG_Leptolli_scaff_374_GENE_7_SigP	5	5	0	hypothetical protein 2509255:2509746 reverse # pl:10.74 MW:18454
2	UBA_Leptolli_Scaffold_8049_GENE_48_SigP	2	2	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
2	UBA_Leptolli_398_147_SigP	2	0	0	(-) # pl:4.21 MW:48475
2	UBA_Leptolli_376_20_SigP	2	0	0	(-) # pl:4.42 MW:51488
2	UBA_Leptolli_391_18_SigP	20	0	0	(-) # pl:4.44 MW:33956
2	5way_CG_Leptolli_scaff_2_GENE_49_SigP	2	2	0	hypothetical protein 56459:57175 forward # pl:10.26 MW:26877
2	UBA_Leptolli_Scaffold_8241_GENE_693_SigP	37	37	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
2	UBA_Leptolli_378_23_SigP	5	0	0	(M - N-acetylmuramoyl-L-alanine amidase) # pl:11.03 MW:51742
2	UBA_Leptolli_Scaffold_7931_GENE_365_SigP	2	2	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
2	UBA_Leptolli_388_7_SigP	2	0	0	(O - Parvulin-like peptidyl-prolyl isomerase) # pl:9.83 MW:31994
2	5way_CG_Leptolli_scaff_6_GENE_19_SigP	2	2	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
2	UBA_Leptolli_Scaffold_8524_GENE_165_SigP	3	3	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
2	5way_CG_Leptolli_scaff_2_GENE_54_SigP	2	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
2	5way_CG_Leptolli_scaff_94_GENE_5_SigP	11	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
2	5way_CG_Leptolli_scaff_62_GENE_10_SigP	20	20	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
2	UBA_Leptolli_391_22_SigP	2	0	0	(R - FOG: TPR repeat) # pl:8.84 MW:118396

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of UBA Sample Set - Run 3

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
3	5way_CG_LeptolI_scaff_25_GENE_2_SigP	4	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
3	5way_CG_LeptolI_scaff_2_GENE_49_SigP	15	0	0	hypothetical protein 56459:57175 forward # pl:10.26 MW:26877
3	5way_CG_LeptolI_scaff_3_GENE_4_SigP	248	0	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
3	5way_CG_LeptolI_scaff_3_GENE_58_SigP	5	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
3	5way_CG_LeptolI_scaff_3_GENE_5_SigP	202	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
3	5way_CG_LeptolI_scaff_3_GENE_6_SigP	3	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
3	5way_CG_LeptolI_scaff_96_GENE_7_SigP	22	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
3	5way_CG_LeptolI_scaff_8_GENE_36_SigP	6	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
3	5way_CG_LeptolI_scaff_8_GENE_23_SigP	17	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
3	5way_CG_LeptolI_scaff_8_GENE_20_SigP	15	0	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
3	5way_CG_LeptolI_scaff_86_GENE_7_SigP	5	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
3	5way_CG_LeptolI_scaff_7_GENE_28_SigP	25	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
3	5way_CG_LeptolI_scaff_6_GENE_20_SigP	8	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
3	5way_CG_LeptolI_scaff_6_GENE_19_SigP	64	0	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
3	5way_CG_LeptolI_scaff_46_GENE_4_SigP	56	0	0	hypothetical protein 1366599:1366910 forward # pl:9.43 MW:11021
3	5way_CG_LeptolI_scaff_66_GENE_6_SigP	26	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pl:5.78 MW:23665
3	5way_CG_LeptolI_scaff_4_GENE_16_SigP	52	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
3	5way_CG_LeptolI_scaff_4_GENE_2_SigP	36	0	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
3	5way_CG_LeptolI_scaff_62_GENE_1_SigP	13	0	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
3	UBA_LeptolIII_388_1_SigP	65	1	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
3	UBA_LeptolIII_398_122_SigP	39	13	0	(-) # pl:9.92 MW:13689
3	UBA_LeptolIII_399_123_SigP	26	5	0	(-) # pl:9.93 MW:19208
3	UBA_LeptolIII_390_49_SigP	394	14	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
3	UBA_LeptolIII_399_92_SigP	159	43	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
3	UBA_LeptolIII_394_36_SigP	54	0	0	(-) # pl:6.54 MW:55063
3	UBA_LeptolIII_398_2_SigP	182	3	0	(-) # pl:10.81 MW:15675
3	UBA_LeptolIII_374_3_SigP	30	8	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
3	UBA_LeptolIII_356_3_SigP	17	6	0	(-) # pl:6.60 MW:24706
3	UBA_LeptolIII_394_10_SigP	15	2	0	(-) # pl:11.06 MW:18504
3	UBA_LeptolIII_373_5_SigP	24	0	0	(-) # pl:9.91 MW:21663
3	UBA_LeptolIII_364_1_SigP	69	0	0	(-) # pl:10.85 MW:12350
3	UBA_LeptolIII_351_1_SigP	26	0	0	(-) # pl:9.75 MW:19719
3	UBA_LeptolIII_336_16_SigP	26	0	0	(-) # pl:9.75 MW:19719
3	UBA_LeptolIII_375_20_SigP	12	0	0	(-) # pl:9.30 MW:13970
3	UBA_LeptolIII_394_71_SigP	22	0	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
3	UBA_LeptolIII_391_32_SigP	19	0	0	(M - Periplasmic protein involved in polysaccharide export) # pl:9.52 MW:31336
3	UBA_LeptolIII_395_59_SigP	7	0	0	(-) # pl:9.43 MW:19080
3	UBA_LeptolIII_393_44_SigP	16	0	0	(-) # pl:9.02 MW:37913
3	UBA_LeptolIII_353_2_SigP	34	0	0	(-) # pl:9.33 MW:31803
3	UBA_LeptolIII_394_70_SigP	12	1	0	(-) # pl:10.49 MW:18094
3	UBA_LeptolIII_328_11_SigP	34	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
3	UBA_LeptolIII_394_7_SigP	39	0	0	(-) # pl:4.70 MW:28104
3	UBA_LeptolIII_314_4_SigP	22	1	0	(-) # pl:10.05 MW:15038
3	UBA_LeptolIII_391_4_SigP	12	0	0	(-) # pl:10.15 MW:22759
3	UBA_LeptolIII_361_10_SigP	15	0	0	(-) # pl:9.57 MW:54911
3	5way_CG_LeptolI_scaff_178_GENE_9_SigP	6	6	0	hypothetical protein 2162891:2163295 forward # pl:9.92 MW:13785
3	UBA_LeptolIII_371_18_SigP	7	0	0	(-) # pl:10.17 MW:18791
3	UBA_LeptolIII_394_47_SigP	3	1	0	(-) # pl:10.39 MW:25595
3	UBA_LeptolIII_364_29_SigP	10	0	0	(P - Cytochrome c peroxidase) # pl:9.51 MW:36728
3	Unass_bact_scaff_1152_GENE_4_SigP	36	0	0	- # Function: Hypothetical protein # pl:4.54 MW:27258
3	UBA_LeptolIII_397_16_SigP	12	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:9.97 MW:35837
3	UBA_LeptolIII_384_12_SigP	11	0	0	(-) # pl:10.43 MW:24691
3	UBA_LeptolIII_398_36_SigP	2	0	0	(-) # pl:7.93 MW:16526
3	UBA_LeptolIII_399_60_SigP	15	0	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
3	UBA_LeptolIII_361_11_SigP	8	0	0	(-) # pl:9.66 MW:26334
3	UBA_LeptolIII_395_29_SigP	16	0	0	(-) # pl:9.79 MW:70443
3	UBA_LeptolIII_399_67_SigP	2	1	0	(-) # pl:4.43 MW:20384
3	UBA_LeptolIII_373_28_SigP	5	0	0	(-) # pl:9.63 MW:30028

3	5way_CG_Leptoll_scaff_23_GENE_15_SigP	54	54	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
3	UBA_LeptolIII_382_13_SigP	15	0	0	(-) # pl:9.79 MW:36778
3	UBA_LeptolIII_396_81_SigP	4	0	0	(-) # pl:9.87 MW:18141
3	UBA_LeptolIII_394_52_SigP	7	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554
3	UBA_LeptolIII_394_29_SigP	5	1	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
3	Unass_bact_scaff_920_GENE_3_SigP	5	1	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
3	UBA_LeptolIII_370_17_SigP	3	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:10.30 MW:28861
3	UBA_LeptolIII_399_64_SigP	4	0	0	(-) # pl:9.80 MW:25377
3	UBA_LeptolIII_396_5_SigP	3	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
3	UBA_LeptolIII_391_6_SigP	3	0	0	(-) # pl:9.46 MW:11977
3	UBA_LeptolIII_397_15_SigP	4	0	0	(-) # pl:9.26 MW:29303
3	UBA_LeptolIII_341_3_SigP	3	0	0	(R - FOG: TPR repeat) # pl:9.23 MW:30968
3	UBA_LeptolIII_395_51_SigP	2	0	0	(-) # pl:10.18 MW:17026
3	5way_CG_Leptoll_scaff_3_GENE_4_SigP	7	7	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
3	UBA_LeptolIII_377_5_SigP	3	0	0	(-) # pl:11.23 MW:25053
3	UBA_LeptolIII_352_3_SigP	2	0	0	(-) # pl:10.55 MW:21019
3	UBA_LeptolIII_394_18_SigP	5	0	0	(C - Cytochrome c) # pl:9.67 MW:28371
3	UBA_Leptoll_Scaffold_8049_GENE_48_SigP	2	2	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
3	UBA_LeptolIII_334_5_SigP	2	0	0	(-) # pl:10.11 MW:31964
3	UBA_LeptolIII_353_6_SigP	2	0	0	(O - Thiol-disulfide isomerase and thioredoxins) # pl:9.78 MW:20913
3	UBA_LeptolIII_382_21_SigP	2	0	0	(S - Uncharacterized protein conserved in bacteria) # pl:9.37 MW:30574
3	UBA_LeptolIII_398_1_SigP	3	0	0	(-) # pl:5.16 MW:9995
3	UBA_LeptolIII_390_44_SigP	6	0	0	(-) # pl:7.72 MW:17434
3	UBA_LeptolIII_307_1_SigP	6	0	0	(-) # pl:9.55 MW:17070
3	UBA_LeptolIII_398_120_SigP	2	0	0	(-) # pl:9.55 MW:20727
3	UBA_LeptolIII_399_94_SigP	3	2	0	(-) # pl:4.49 MW:57767
3	5way_CG_Leptoll_scaff_46_GENE_16_SigP	9	9	0	cytochrome c 1378692:1379510 reverse # pl:10.25 MW:29786
3	UBA_LeptolIII_379_16_SigP	8	0	0	(-) # pl:9.95 MW:71809
3	UBA_LeptolIII_395_61_SigP	2	0	0	(-) # pl:9.73 MW:17490
3	5way_CG_Leptoll_scaff_46_GENE_4_SigP	5	5	0	hypothetical protein 1366599:1366910 forward # pl:9.43 MW:11021
3	UBA_LeptolIII_394_19_SigP	2	0	0	(C - Cytochrome c553) # pl:9.88 MW:26137
3	5way_CG_Leptoll_scaff_374_GENE_7_SigP	6	6	0	hypothetical protein 2509255:2509746 reverse # pl:10.74 MW:18454
3	UBA_LeptolIII_391_18_SigP	17	0	0	(-) # pl:4.44 MW:33956
3	5way_CG_Leptoll_scaff_2_GENE_49_SigP	2	2	0	hypothetical protein 56459:57175 forward # pl:10.26 MW:26877
3	UBA_Leptoll_Scaffold_8241_GENE_693_SigP	44	44	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
3	5way_CG_Leptoll_scaff_62_GENE_7_SigP	2	0	0	hypothetical protein 1561859:1562500 reverse # pl:9.99 MW:24347
3	5way_CG_Leptoll_scaff_6_GENE_19_SigP	10	10	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
3	UBA_LeptolIII_398_147_SigP	2	0	0	(-) # pl:4.21 MW:48475
3	UBA_LeptolIII_376_20_SigP	2	0	0	(-) # pl:4.42 MW:51488
3	5way_CG_Leptoll_scaff_94_GENE_5_SigP	6	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
3	5way_CG_Leptoll_scaff_62_GENE_10_SigP	31	31	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
3	UBA_LeptolIII_391_22_SigP	4	0	0	(R - FOG: TPR repeat) # pl:8.84 MW:118396

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB Muck Friable Sample Set - Run 1

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
1	UBA_Leptoll_Scaffold_8524_GENE_128_SigP	210	4	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
1	5way_CG_Leptoll_scaff_6_GENE_19_SigP	193	4	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
1	UBA_Leptoll_Scaffold_8135_GENE_9_SigP	413	28	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
1	UBA_Leptoll_Scaffold_8049_GENE_366_SigP	357	2	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
1	5way_CG_Leptoll_scaff_62_GENE_10_SigP	323	28	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
1	5way_CG_Leptoll_scaff_3_GENE_4_SigP	231	4	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
1	5way_CG_Leptoll_scaff_178_GENE_9_SigP	10	5	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
1	UBA_Leptoll_Scaffold_8049_GENE_321_SigP	10	5	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
1	UBA_Leptoll_Scaffold_8241_GENE_297_SigP	241	1	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
1	5way_CG_Leptoll_scaff_21_GENE_56_SigP	26	1	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
1	UBA_Leptoll_Scaffold_8241_GENE_81_SigP	26	1	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
1	UBA_Leptoll_Scaffold_8062_GENE_53_SigP	69	1	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
1	5way_CG_Leptoll_scaff_374_GENE_7_SigP	81	15	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
1	UBA_Leptoll_Scaffold_8241_GENE_153_SigP	81	15	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
1	UBA_Leptoll_Scaffold_8049_GENE_83_SigP	49	17	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
1	5way_CG_Leptoll_scaff_45_GENE_15_SigP	249	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
1	UBA_Leptoll_Scaffold_8062_GENE_34_SigP	80	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
1	UBA_Leptoll_Scaffold_7931_GENE_365_SigP	61	2	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
1	UBA_Leptoll_Scaffold_8524_GENE_249_SigP	148	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
1	UBA_Leptoll_Scaffold_8241_GENE_348_SigP	84	2	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
1	5way_CG_Leptoll_scaff_4_GENE_16_SigP	81	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
1	UBA_Leptoll_Scaffold_8524_GENE_201_SigP	21	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
1	UBA_Leptoll_Scaffold_8241_GENE_238_SigP	75	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
1	UBA_Leptoll_Scaffold_8241_GENE_573_SigP	32	1	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
1	UBA_Leptoll_Scaffold_8241_GENE_349_SigP	193	0	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
1	5way_CG_Leptoll_scaff_23_GENE_15_SigP	44	17	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
1	5way_CG_Leptoll_scaff_98_GENE_12_SigP	72	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
1	UBA_Leptoll_Scaffold_8241_GENE_565_SigP	33	1	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
1	5way_CG_Leptoll_scaff_62_GENE_1_SigP	12	3	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
1	5way_CG_Leptoll_scaff_8_GENE_23_SigP	17	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
1	UBA_Leptoll_Scaffold_8027_GENE_50_SigP	31	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
1	5way_CG_Leptoll_scaff_141_GENE_3_SigP	144	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
1	5way_CG_Leptoll_scaff_32_GENE_19_SigP	90	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114
1	UBA_Leptoll_Scaffold_8241_GENE_610_SigP	15	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
1	UBA_Leptoll_Scaffold_8524_GENE_248_SigP	19	0	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
1	UBA_Leptoll_Scaffold_7931_GENE_338_SigP	38	0	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
1	5way_CG_Leptoll_scaff_80_GENE_22_SigP	40	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
1	UBA_Leptoll_Scaffold_8241_GENE_121_SigP	86	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
1	UBA_Leptoll_Scaffold_8049_GENE_48_SigP	13	3	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
1	5way_CG_Leptoll_scaff_46_GENE_16_SigP	29	2	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
1	UBA_Leptoll_Scaffold_7931_GENE_111_SigP	29	2	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
1	UBA_Leptoll_Scaffold_8062_GENE_173_SigP	28	2	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
1	UBA_Leptoll_Scaffold_8062_GENE_32_SigP	29	7	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
1	UBA_Leptoll_Scaffold_8062_GENE_151_SigP	16	0	0	Hypothetical protein 158736:159437 reverse # pl:10.88 MW:26479
1	5way_CG_Leptoll_scaff_42_GENE_33_SigP	62	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
1	UBA_Leptoll_Scaffold_8241_GENE_522_SigP	20	1	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
1	5way_CG_Leptoll_scaff_81_GENE_24_SigP	59	1	0	(-) # pl:10.05 MW:15038
1	UBA_Leptoll_Scaff_314_4_SigP	59	1	0	(-) # pl:10.05 MW:15038
1	UBA_Leptoll_Scaffold_8241_GENE_56_SigP	38	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
1	5way_CG_Leptoll_scaff_21_GENE_26_SigP	38	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
1	UBA_Leptoll_Scaffold_8241_GENE_392_SigP	15	1	0	Hypothetical protein 371271:371777 forward # pl:11.11 MW:18296
1	5way_CG_Leptoll_scaff_43_GENE_22_SigP	24	1	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
1	UBA_Leptoll_Scaffold_8241_GENE_298_SigP	124	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
1	5way_CG_Leptoll_scaff_3_GENE_5_SigP	124	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
1	5way_CG_Leptoll_scaff_333_GENE_9_SigP	7	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
1	5way_CG_Leptoll_scaff_175_GENE_9_SigP	7	2	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746
1	UBA_Leptoll_Scaffold_8524_GENE_216_SigP	15	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
1	5way_CG_Leptoll_scaff_511_GENE_2_SigP	34	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
1	5way_CG_Leptoll_scaff_3_GENE_58_SigP	88	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
1	UBA_Leptoll_Scaffold_8241_GENE_693_SigP	100	34	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
1	UBA_Leptoll_Scaffold_8241_GENE_256_SigP	11	0	0	Hypothetical protein 241268:241888 reverse # pl:10.64 MW:22967
1	5way_CG_Leptoll_scaff_14_GENE_26_SigP	12	0	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
1	UBA_Leptoll_Scaffold_8062_GENE_38_SigP	41	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
1	5way_CG_Leptoll_scaff_4_GENE_2_SigP	25	2	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
1	UBA_Leptoll_Scaffold_8049_GENE_209_SigP	21	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
1	UBA_Leptoll_Scaffold_8049_GENE_192_SigP	46	0	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
1	5way_CG_Leptoll_scaff_48_GENE_32_SigP	18	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
1	UBA_Leptoll_Scaffold_8241_GENE_114_SigP	138	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
1	5way_CG_Leptoll_scaff_32_GENE_25_SigP	138	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
1	5way_CG_Leptoll_scaff_41_GENE_27_SigP	45	0	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
1	Unass_bact_scaff_1131_GENE_3_SigP	20	0	0	- # Function: Hypothetical protein # pl:9.90 MW:17619

1	UBA_Leptoll_Scaffold_8241_GENE_253_SigP	23	2	0	Putative secretion protein (HlyD) 238386:239528 reverse # pl:7.85 MW:42147
1	UBA_Leptoll_Scaffold_364_1_SigP	8	0	0	(-) # pl:10.85 MW:12350
1	UBA_Leptoll_Scaffold_8692_GENE_129_SigP	20	0	0	Uncharacterized NAD(FAD)-dependent dehydrogenases 123535:124674 reverse # pl:7.78 MW:42008
1	5way_CG_Leptoll_scaff_86_GENE_7_SigP	18	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
1	5way_CG_Leptoll_scaff_21_GENE_20_SigP	17	0	0	hypothetical protein 728920:729237 forward # pl:9.18 MW:11040
1	UBA_Leptoll_Scaffold_8135_GENE_71_SigP	18	2	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
1	UBA_Leptoll_Scaffold_8027_GENE_57_SigP	19	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
1	UBA_Leptoll_Scaffold_8524_GENE_197_SigP	9	0	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
1	5way_CG_Leptoll_scaff_8_GENE_20_SigP	7	0	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
1	5way_CG_Leptoll_scaff_25_GENE_41_SigP	6	0	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
1	Unass_bact_scaff_903_GENE_5_SigP	4	0	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
1	UBA_Leptoll_Scaffold_8062_GENE_236_SigP	31	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
1	UBA_Leptoll_Scaffold_395_29_SigP	31	0	0	(-) # pl:9.79 MW:70443
1	5way_CG_Leptoll_scaff_96_GENE_7_SigP	25	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
1	5way_CG_Leptoll_scaff_2_GENE_49_SigP	16	3	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
1	UBA_Leptoll_Scaffold_7931_GENE_186_SigP	16	3	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
1	5way_CG_Leptoll_scaff_14_GENE_50_SigP	15	2	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
1	UBA_Leptoll_Scaffold_8241_GENE_295_SigP	5	0	0	Hypothetical protein 274121:274495 forward # pl:9.10 MW:13221
1	5way_CG_Leptoll_scaff_59_GENE_16_SigP	11	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
1	5way_CG_Leptoll_scaff_46_GENE_24_SigP	3	1	0	Hypothetical protein 122985:123505 reverse # pl:11.72 MW:18723
1	UBA_Leptoll_Scaffold_7931_GENE_119a_SigP	3	1	0	Hypothetical protein 122985:123505 reverse # pl:11.72 MW:18723
1	5way_CG_Leptoll_scaff_42_GENE_34_SigP	21	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
1	UBA_Leptoll_Scaffold_8692_GENE_75_SigP	25	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
1	5way_CG_Leptoll_scaff_271_GENE_3_SigP	17	0	0	flavoprotein oxidoreductase 2359237:2360376 reverse # pl:7.21 MW:42034
1	5way_CG_Leptoll_scaff_27_GENE_13_SigP	28	0	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
1	UBA_Leptoll_Scaffold_8027_GENE_31_SigP	13	3	0	Malate/lactate dehydrogenases 32641:33603 forward # pl:6.37 MW:34682
1	UBA_Leptoll_Scaffold_7931_GENE_97_SigP	8	0	0	Hypothetical protein 95055:95750 reverse # pl:8.82 MW:26173
1	5way_CG_Leptoll_scaff_297_GENE_5_SigP	8	0	0	hypothetical protein 2435933:2436628 forward # pl:8.82 MW:26173
1	UBA_Leptoll_Scaffold_7931_GENE_363_SigP	14	0	0	Peroxioredoxin 418582:419157 forward # pl:9.67 MW:21131
1	5way_CG_Leptoll_scaff_42_GENE_27_SigP	4	0	0	hypothetical protein 1233635:1234360 forward # pl:9.49 MW:27054
1	5way_CG_Leptoll_scaff_43_GENE_14_SigP	22	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
1	UBA_Leptoll_Scaffold_7931_GENE_352_SigP	9	1	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
1	UBA_Leptoll_Scaffold_8049_GENE_42a_SigP	5	0	0	Hypothetical protein 34331:34687 reverse # pl:9.86 MW:13687
1	UBA_Leptoll_Scaffold_8241_GENE_32_SigP	21	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194
1	UBA_Leptoll_Scaffold_8241_GENE_270_SigP	12	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
1	UBA_Leptoll_Scaffold_7931_GENE_112_SigP	16	0	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
1	5way_CG_Leptoll_scaff_46_GENE_17_SigP	16	0	0	soluble cytochrome cB/cytochrome c553 1379572:1380243 reverse # pl:9.81 MW:24159
1	5way_CG_Leptoll_scaff_21_GENE_53_SigP	9	0	0	hypothetical protein 759903:760511 reverse # pl:9.47 MW:21658
1	UBA_Leptoll_Scaffold_388_1_SigP	9	0	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
1	UBA_Leptoll_Scaffold_7931_GENE_101_SigP	5	0	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
1	5way_CG_Leptoll_scaff_46_GENE_4_SigP	5	0	0	hypothetical protein 1366599:1366910 forward # pl:9.43 MW:11021
1	5way_CG_Leptoll_scaff_98_GENE_16_SigP	17	0	0	hypothetical protein 1939943:1940773 reverse # pl:5.20 MW:28369
1	UBA_Leptoll_Scaffold_8241_GENE_298a_SigP	12	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pl:11.10 MW:25887
1	UBA_Leptoll_Scaffold_8062_GENE_268_SigP	5	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
1	UBA_Leptoll_Scaffold_395_61_SigP	5	0	0	(-) # pl:9.73 MW:17490
1	5way_CG_Leptoll_scaff_265_GENE_14_SigP	5	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
1	5way_CG_Leptoll_scaff_630_GENE_6_SigP	201	0	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
1	UBA_Leptoll_Scaffold_8049_GENE_47_SigP	9	0	0	Hypothetical protein 37752:38414 reverse # pl:9.93 MW:24100
1	UBA_Leptoll_Scaffold_7931_GENE_98_SigP	12	0	0	Hypothetical protein 96019:96525 forward # pl:9.43 MW:19616
1	5way_CG_Leptoll_scaff_297_GENE_4_SigP	12	0	0	hypothetical protein 2435158:2435664 reverse # pl:9.43 MW:19616
1	5way_CG_Leptoll_scaff_141_GENE_2_SigP	7	0	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
1	UBA_Leptoll_Scaffold_7931_GENE_87_SigP	24	0	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
1	5way_CG_Leptoll_scaff_66_GENE_21_SigP	24	0	0	hypothetical protein 1603957:1604319 reverse # pl:8.80 MW:13441
1	UBA_Leptoll_Scaffold_8692_GENE_69_SigP	6	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
1	5way_CG_Leptoll_scaff_44_GENE_17_SigP	11	3	0	malate dehydrogenase 1311610:1312572 forward # pl:6.14 MW:34712
1	5way_CG_Leptoll_scaff_96_GENE_14_SigP	16	0	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
1	Unass_bact_scaff_1002_GENE_2_SigP	3	1	0	- # Function: Hypothetical protein # pl:4.82 MW:20989
1	5way_CG_Leptoll_scaff_22_GENE_18_SigP	24	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
1	UBA_Leptoll_Scaffold_7931_GENE_16_SigP	5	0	0	Hypothetical protein 12313:12933 reverse # pl:9.26 MW:23588
1	5way_CG_Leptoll_scaff_428_GENE_6_SigP	5	0	0	hypothetical protein 2557294:2557914 reverse # pl:9.26 MW:23588
1	UBA_Leptoll_Scaffold_8524_GENE_165_SigP	9	2	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
1	UBA_Leptoll_Scaffold_7931_GENE_73_SigP	24	0	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
1	5way_CG_Leptoll_scaff_66_GENE_6_SigP	24	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pl:5.78 MW:23665
1	5way_CG_Leptoll_scaff_41_GENE_29_SigP	9	0	0	bacterioferritin comigratory protein/peroxiredoxin 1204208:1204783 reverse # pl:9.67 MW:21373
1	5way_CG_Leptoll_scaff_3_GENE_6_SigP	8	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
1	5way_CG_Leptoll_scaff_59_GENE_28_SigP	8	0	0	hypothetical protein 1554663:1555283 forward # pl:10.76 MW:22906
1	5way_CG_Leptoll_scaff_98_GENE_11_SigP	20	7	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
1	5way_CG_Leptoll_scaff_120_GENE_4_SigP	11	0	0	efflux protein, CzcB 1968652:1969776 reverse # pl:9.89 MW:41685
1	UBA_Leptoll_Scaffold_8049_GENE_55_SigP	6	0	0	Hypothetical protein 42266:42961 forward # pl:7.09 MW:26271
1	UBA_Leptoll_Scaffold_8692_GENE_5_SigP	31	0	0	Hypothetical protein 4993:5544 forward # pl:10.17 MW:19972
1	UBA_Leptoll_Scaffold_8524_GENE_269_SigP	12	0	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589
1	UBA_Leptoll_Scaffold_8692_GENE_49_SigP	19	0	0	FOG 51650:53845 reverse # pl:9.71 MW:84153
1	5way_CG_Leptoll_scaff_265_GENE_1_SigP	5	1	0	hypothetical protein 2347717:2348634 reverse # pl:9.78 MW:29226
1	UBA_Leptoll_Scaffold_8062_GENE_31_SigP	8	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
1	UBA_Leptoll_Scaffold_391_4_SigP	9	0	0	(-) # pl:10.15 MW:22759
1	5way_CG_Leptoll_scaff_25_GENE_47_SigP	4	0	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038

1	UBA_Leptoll_Scaffold_7931_GENE_372_SigP	3	0	0	Hypothetical protein 426824:427432 forward # pl:10.16 MW:21478
1	UBA_Leptoll_Scaffold_8135_GENE_81_SigP	9	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
1	UBA_Leptoll_Scaffold_8049_GENE_3_SigP	9	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
1	5way_CG_Leptoll_scaff_25_GENE_2_SigP	9	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
1	5way_CG_Leptoll_scaff_120_GENE_14_SigP	9	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
1	UBA_Leptoll_Scaffold_8062_GENE_328_SigP	4	1	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
1	5way_CG_Leptoll_scaff_8_GENE_36_SigP	6	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
1	UBA_Leptoll_Scaffold_8049_GENE_109_SigP	4	0	0	Hypothetical protein 103611:104141 forward # pl:9.51 MW:19740
1	5way_CG_Leptoll_scaff_23_GENE_41_SigP	4	0	0	hypothetical protein 865371:865901 forward # pl:9.51 MW:19771
1	UBA_Leptoll_Scaffold_390_49_SigP	5	1	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
1	5way_CG_Leptoll_scaff_25_GENE_46_SigP	8	0	0	hypothetical protein 912913:913575 reverse # pl:10.04 MW:23895
1	UBA_Leptoll_Scaffold_398_2_SigP	3	0	0	(-) # pl:10.81 MW:15675
1	UBA_Leptoll_Scaffold_7931_GENE_349_SigP	3	0	0	Hypothetical protein 403648:404268 reverse # pl:6.14 MW:22293
1	5way_CG_Leptoll_scaff_86_GENE_19_SigP	3	0	0	hypothetical protein 1861083:1861703 reverse # pl:6.14 MW:22162
1	5way_CG_Leptoll_scaff_25_GENE_53_SigP	4	0	0	hypothetical protein 917425:918120 forward # pl:7.75 MW:26216
1	5way_CG_Leptoll_scaff_98_GENE_10_SigP	5	0	0	hypothetical protein 1933888:1934532 forward # pl:9.80 MW:24317
1	5way_CG_Leptoll_scaff_30_GENE_6_SigP	4	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
1	UBA_Leptoll_Scaffold_8241_GENE_175_SigP	2	0	0	Hypothetical protein 167847:168170 forward # pl:5.03 MW:11883
1	5way_CG_Leptoll_scaff_4_GENE_82_SigP	2	0	0	hypothetical protein 316894:317217 reverse # pl:5.03 MW:11881
1	UBA_Leptoll_Scaffold_8135_GENE_5_SigP	7	0	0	FOG 3195:4136 forward # pl:9.10 MW:34971
1	UBA_Leptoll_Scaffold_7931_GENE_123_SigP	6	0	0	Cytochrome c 128461:129270 forward # pl:9.68 MW:29622
1	5way_CG_Leptoll_scaff_46_GENE_28_SigP	6	0	0	cytochrome c 1396147:1396956 forward # pl:9.68 MW:29622
1	UBA_Leptoll_Scaffold_8062_GENE_44_SigP	2	0	0	Hypothetical protein 44570:45088 forward # pl:11.13 MW:19316
1	gpl_scaff_198_GENE_2_SigP	6	0	0	# Gene_name: FixC # Function: Dehydrogenases (flavoproteins) # e-36 # pl:6.27 MW:44603
1	UBA_Leptoll_Scaffold_8524_GENE_101_SigP	11	0	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
1	5way_CG_Leptoll_scaff_167_GENE_10_SigP	12	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
1	5way_CG_Leptoll_scaff_186_GENE_4_SigP	4	1	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
1	UBA_Leptoll_Scaffold_7931_GENE_128_SigP	4	1	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
1	5way_CG_Leptoll_scaff_46_GENE_27_SigP	3	1	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
1	UBA_Leptoll_Scaffold_7931_GENE_122_SigP	3	1	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
1	UBA_Leptoll_Scaffold_8524_GENE_235_SigP	7	0	0	Cytochrome c551/c552 219925:220257 reverse # pl:9.89 MW:11806
1	UBA_Leptoll_Scaffold_7931_GENE_10_SigP	4	0	0	Putative protease S49 7025:7912 reverse # pl:9.84 MW:31652
1	5way_CG_Leptoll_scaff_274_GENE_2_SigP	4	0	0	signal peptidase 2368985:2369872 forward # pl:9.84 MW:31652
1	UBA_Leptoll_Scaffold_8524_GENE_98_SigP	6	0	0	undefined product 87262:87864 forward # pl:7.20 MW:22096
1	UBA_Leptoll_Scaffold_399_92_SigP	3	1	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
1	5way_CG_Leptoll_scaff_287_GENE_4_SigP	3	1	0	hypothetical protein 2399359:2399979 reverse # pl:8.69 MW:22528
1	UBA_Leptoll_Scaffold_8241_GENE_524_SigP	8	0	0	Parvulin-like peptidyl-prolyl isomerase 502388:503257 reverse # pl:9.96 MW:32363
1	5way_CG_Leptoll_scaff_68_GENE_16_SigP	6	0	0	hypothetical protein 1654556:1655425 forward # pl:9.89 MW:31842
1	UBA_Leptoll_Scaffold_8241_GENE_544_SigP	5	0	0	Hypothetical protein 522023:522568 forward # pl:9.54 MW:20235
1	5way_CG_Leptoll_scaff_6_GENE_46_SigP	9	0	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
1	UBA_Leptoll_Scaffold_317_6_SigP	6	0	0	(C - Pyruvate:ferredoxin oxidoreductase and related 2-oxoacid:ferredoxin oxidoreductases, gamma subunit) # pl:8.83 MW:25186
1	5way_CG_Leptoll_scaff_22_GENE_28_SigP	2	0	0	hypothetical protein 794184:794561 reverse # pl:10.83 MW:14375
1	UBA_Leptoll_Scaffold_8241_GENE_570_SigP	9	0	0	Outer membrane protein 555547:557019 forward # pl:9.35 MW:54952
1	5way_CG_Leptoll_scaff_43_GENE_19_SigP	9	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
1	5way_CG_Leptoll_scaff_22_GENE_33_SigP	14	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
1	5way_CG_Leptoll_scaff_94_GENE_5_SigP	10	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
1	5way_CG_Leptoll_scaff_30_GENE_22_SigP	14	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
1	UBA_Leptoll_Scaffold_361_11_SigP	5	0	0	(-) # pl:9.66 MW:26334
1	UBA_Leptoll_Scaffold_8241_GENE_690_SigP	15	0	0	Hypothetical protein 681251:682891 forward # pl:4.70 MW:59054
1	UBA_Leptoll_Scaffold_7931_GENE_281_SigP	5	0	0	Periplasmic protein involved in polysaccharide export 311387:312244 reverse # pl:9.91 MW:31407
1	5way_CG_Leptoll_scaff_7_GENE_28_SigP	5	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
1	UBA_Leptoll_Scaffold_8062_GENE_198_SigP	6	0	0	Methyl-accepting chemotaxis protein 207853:209586 forward # pl:7.22 MW:63761
1	5way_CG_Leptoll_scaff_32_GENE_24_SigP	10	0	0	hypothetical protein 1095187:1095858 forward # pl:4.69 MW:23690
1	UBA_Leptoll_Scaffold_399_123_SigP	3	0	0	(-) # pl:9.93 MW:19208
1	UBA_Leptoll_Scaffold_7931_GENE_191_SigP	4	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
1	5way_CG_Leptoll_scaff_13_GENE_57_SigP	4	0	0	hypothetical protein 633696:634211 reverse # pl:9.45 MW:19141
1	5way_CG_Leptoll_scaff_4_GENE_70_SigP	2	0	0	dehydrogenase 307021:307728 reverse # pl:8.81 MW:25390
1	UBA_Leptoll_Scaffold_8524_GENE_127_SigP	10	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pl:9.38 MW:87643
1	5way_CG_Leptoll_scaff_6_GENE_20_SigP	10	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
1	5way_CG_Leptoll_scaff_62_GENE_5_SigP	5	0	0	hypothetical protein 1560383:1561324 forward # pl:8.96 MW:35059
1	UBA_Leptoll_Scaffold_334_5_SigP	2	0	0	(-) # pl:10.11 MW:31964
1	UBA_Leptoll_Scaffold_8027_GENE_48a_SigP	3	0	0	Hypothetical protein 47726:48559 forward # pl:11.68 MW:30762
1	UBA_Leptoll_Scaffold_328_11_SigP	6	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
1	UBA_Leptoll_Scaffold_7931_GENE_181_SigP	7	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pl:10.33 MW:77941
1	UBA_Leptoll_Scaffold_8241_GENE_472_SigP	4	0	0	Thiol-disulfide isomerase and thioredoxins 451265:452311 forward # pl:7.73 MW:38930
1	5way_CG_Leptoll_scaff_80_GENE_19_SigP	4	0	0	thiol-disulfide isomerase 1807699:1808745 reverse # pl:8.70 MW:38966
1	5way_CG_Leptoll_scaff_32_GENE_52_SigP	6	0	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
1	UBA_Leptoll_Scaffold_8049_GENE_177_SigP	2	0	0	Hypothetical protein 174292:174618 reverse # pl:9.94 MW:11405
1	5way_CG_Leptoll_scaff_318_GENE_7_SigP	2	0	0	hypothetical protein 2471200:2471523 reverse # pl:9.94 MW:11405
1	5way_CG_Leptoll_scaff_135_GENE_8_SigP	4	0	0	methyl-accepting chemotaxis protein 2005301:2007034 forward # pl:6.87 MW:63854
1	UBA_Leptoll_Scaffold_359_20_SigP	2	0	0	(-) # pl:9.73 MW:41677
1	UBA_Leptoll_Scaffold_7931_GENE_383_SigP	2	0	0	undefined product 441204:441656 forward # pl:7.12 MW:15956
1	5way_CG_Leptoll_scaff_41_GENE_9_SigP	2	0	0	hypothetical protein 1181714:1182166 reverse # pl:7.84 MW:15936
1	UBA_Leptoll_Scaffold_8049_GENE_68_SigP	2	0	0	Pyruvate/2-oxoglutarate dehydrogenase complex, dihydrolipoamide dehydrogenase (E3) component, and related enzymes 54324:55709 reverse # pl:6.71 MW:49659
1	5way_CG_Leptoll_scaff_483_GENE_2_SigP	2	0	0	mercuric reductase 2619783:2621168 reverse # pl:6.58 MW:49677
1	UBA_Leptoll_Scaffold_8241_GENE_21_SigP	6	2	0	Putative phospholipid binding protein 18471:19037 reverse # pl:9.81 MW:20481

1	Sway_CG_Leptoll_scaff_27_GENE_41_SigP	4	0	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
1	UBA_Leptoll_Scaffold_8241_GENE_630_SigP	4	0	0	Kef-type K+ transport systems, predicted NAD-bind ing component 612785:613828 forward # pl:5.78 MW:37736
1	Sway_CG_Leptoll_scaff_13_GENE_36_SigP	4	0	0	potassium uptake protein 614251:615294 reverse # pl:5.78 MW:37718
1	UBA_Leptoll_Scaffold_8692_GENE_45_SigP	5	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
1	Sway_CG_Leptoll_scaff_30_GENE_28_SigP	5	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
1	UBA_Leptoll_Scaffold_8049_GENE_42_SigP	3	0	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108
1	Sway_CG_Leptoll_scaff_630_GENE_3_SigP	2	0	0	hypothetical protein 2708442:2709209 forward # pl:9.62 MW:28389
1	Sway_CG_Leptoll_scaff_224_GENE_8_SigP	2	0	0	hypothetical protein 2292752:2293084 forward # pl:10.09 MW:11851
1	UBA_LeptollI_394_70_SigP	4	0	0	(-) # pl:10.49 MW:18094
1	UBA_LeptollI_370_17_SigP	2	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:10.30 MW:28861
1	UBA_Leptoll_Scaffold_8062_GENE_26_SigP	2	0	0	Hypothetical protein 27591:28298 forward # pl:11.34 MW:26068
1	Unass_bact_scaff_920_GENE_3_SigP	5	0	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
1	UBA_LeptollI_394_29_SigP	5	0	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
1	Unass_bact_scaff_1043_GENE_3_SigP	2	2	0	- # Function: Hypothetical protein # pl:9.28 MW:17946
1	Sway_CG_Leptoll_scaff_96_GENE_5_SigP	2	0	0	hypothetical protein 1906272:1907108 forward # pl:11.31 MW:30636
1	UBA_LeptollI_384_28_SigP	3	0	0	(C - Malate/lactate dehydrogenases) # pl:6.34 MW:34591
1	Sway_CG_Leptoll_scaff_94_GENE_7_SigP	2	0	0	DNA recombination protein RmuC 1889956:1891389 forward # pl:5.78 MW:53255
1	UBA_Leptoll_Scaffold_7931_GENE_377_SigP	3	0	0	undefined product 432399:433847 forward # pl:4.30 MW:52721
1	Sway_CG_Leptoll_scaff_41_GENE_16_SigP	3	0	0	hypothetical protein 1189524:1190972 reverse # pl:4.22 MW:52723
1	UBA_Leptoll_Scaffold_7931_GENE_311_SigP	8	0	0	FOG 348657:351887 forward # pl:9.10 MW:118365
1	UBA_Leptoll_Scaffold_8241_GENE_337_SigP	4	0	0	Peptidase M23/M37 family 319746:320636 reverse # pl:10.67 MW:32300
1	UBA_Leptoll_Scaffold_8241_GENE_79_SigP	2	0	0	Hypothetical protein 78556:79164 reverse # pl:9.58 MW:21627
1	Sway_CG_Leptoll_scaff_4_GENE_7_SigP	3	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
1	UBA_Leptoll_Scaffold_8241_GENE_103_SigP	3	0	0	undefined product 104291:105808 reverse # pl:4.37 MW:54784
1	Sway_CG_Leptoll_scaff_32_GENE_36_SigP	3	0	0	hypothetical protein 1104400:1105929 forward # pl:4.32 MW:55077
1	UBA_Leptoll_Scaffold_8241_GENE_248_SigP	2	0	0	Hypothetical protein 232386:233240 reverse # pl:9.32 MW:32282
1	Sway_CG_Leptoll_scaff_48_GENE_7_SigP	2	0	0	hypothetical protein 1405849:1406394 reverse # pl:9.64 MW:20256
1	UBA_Leptoll_Scaffold_7931_GENE_368_SigP	2	0	0	Hypothetical protein 424188:424832 forward # pl:9.22 MW:23066
1	Sway_CG_Leptoll_scaff_41_GENE_24_SigP	2	0	0	hypothetical protein 1198537:1199181 reverse # pl:9.03 MW:23062
1	Sway_CG_Leptoll_scaff_96_GENE_6_SigP	4	0	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
1	UBA_Leptoll_Scaffold_8062_GENE_227_SigP	3	0	0	3-oxoacyl-[acyl-carrier-protein] synthase III 235397:236422 reverse # pl:5.76 MW:36418
1	UBA_LeptollI_395_20_SigP	3	0	0	(I - 3-oxoacyl-[acyl-carrier-protein] synthase III) # pl:5.76 MW:35987
1	UBA_Leptoll_Scaffold_7931_GENE_193_SigP	2	0	0	ABC-type transport system involved in resistance to organic solvents, periplasmic component 210862:211839 reverse # pl:9.61 MW:35498
1	Sway_CG_Leptoll_scaff_2_GENE_56_SigP	2	0	0	ABC transporter, periplasmic component 67833:68810 reverse # pl:9.54 MW:35487
1	Sway_CG_Leptoll_scaff_167_GENE_7_SigP	5	0	0	hypothetical protein 2094828:2096972 reverse # pl:8.62 MW:78226
1	UBA_Leptoll_Scaffold_8027_GENE_49_SigP	5	0	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pl:9.05 MW:50054
1	UBA_Leptoll_Scaffold_7931_GENE_32_SigP	2	0	0	Hypothetical protein 27920:29092 reverse # pl:9.33 MW:43431
1	Sway_CG_Leptoll_scaff_59_GENE_6_SigP	2	1	0	acid phosphatase 1535913:1536902 forward # pl:9.49 MW:37053
1	UBA_Leptoll_Scaffold_8524_GENE_225_SigP	2	0	0	Hypothetical protein 208344:209684 forward # pl:7.25 MW:49701
1	gpl_scaff_388_GENE_4_SigP	2	0	0	- # Function: Hypothetical protein # pl:5.17 MW:43868
1	Unass_arch_scaff_954_GENE_1_SigP	2	0	0	- # Function: Hypothetical protein # pl:9.49 MW:21505
1	fer2_scaff_93_GENE_14_SigP	2	0	0	# Gene_name: MarC # Function: Integral membrane proteins of the MarC family # e-48 # pl:8.96 MW:22568
1	UBA_Leptoll_Scaffold_8135_GENE_45_SigP	2	0	0	Predicted secreted hydrolase 44062:45204 forward # pl:9.88 MW:42796
1	UBA_Leptoll_Scaffold_8241_GENE_643_SigP	2	0	0	Flagellar basal-body P-ring protein 626248:627312 forward # pl:9.81 MW:37404
1	UBA_LeptollI_361_10_SigP	2	0	0	(-) # pl:9.57 MW:54911
1	UBA_Leptoll_Scaffold_8049_GENE_61_SigP	6	0	0	Carbamoylphosphate synthase large subunit (split gene in MJ) 47956:51198 forward # pl:5.25 MW:117734
1	UBA_Leptoll_Scaffold_7931_GENE_221_SigP	2	0	0	undefined product 236769:238109 reverse # pl:5.59 MW:49248
1	Sway_CG_Leptoll_scaff_2_GENE_85_SigP	2	0	0	hypothetical protein 93743:95083 reverse # pl:5.45 MW:49277
1	UBA_LeptollI_390_44_SigP	20	0	0	(-) # pl:7.72 MW:17434
1	UBA_LeptollI_307_1_SigP	20	0	0	(-) # pl:9.55 MW:17070
1	UBA_Leptoll_Scaffold_8049_GENE_135_SigP	3	0	0	Hypothetical protein 128406:129443 forward # pl:9.23 MW:39749
1	Sway_CG_Leptoll_scaff_33_GENE_19_SigP	3	0	0	hypothetical protein 1141204:1142241 forward # pl:9.23 MW:39749
1	UBA_Leptoll_Scaffold_8049_GENE_37_SigP	2	0	0	undefined product 28961:29926 forward # pl:8.99 MW:35904
1	Sway_CG_Leptoll_scaff_25_GENE_36_SigP	2	0	0	hypothetical protein 905024:905989 forward # pl:8.99 MW:35890
1	Sway_CG_Leptoll_scaff_21_GENE_25_SigP	2	0	0	hypothetical protein 735291:736745 reverse # pl:7.80 MW:53899
1	UBA_LeptollI_397_16_SigP	2	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:9.97 MW:35837
1	Sway_CG_Leptoll_scaff_42_GENE_24_SigP	4	0	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
1	Sway_CG_Leptoll_scaff_2_GENE_44_SigP	3	0	0	soluble lytic transglycosylase 48347:50407 reverse # pl:10.33 MW:77488
1	UBA_Leptoll_Scaffold_8241_GENE_469_SigP	4	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
1	UBA_Leptoll_Scaffold_8241_GENE_149_SigP	27	0	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
1	UBA_Leptoll_Scaffold_7931_GENE_1_SigP	2	0	0	Membrane proteins related to metalloendopeptidase s 348:1544 reverse # pl:10.10 MW:46222
1	Sway_CG_Leptoll_scaff_274_GENE_10_SigP	2	0	0	hypothetical protein 2375353:2376549 forward # pl:10.10 MW:46222
1	UBA_LeptollI_394_18_SigP	2	0	0	(C - Cytochrome c) # pl:9.67 MW:28371
1	UBA_Leptoll_Scaffold_7931_GENE_133_SigP	2	0	0	Hypothetical protein 138630:139502 forward # pl:9.94 MW:31918
1	Sway_CG_Leptoll_scaff_186_GENE_8_SigP	2	0	0	hypothetical protein 2199191:2200063 forward # pl:9.94 MW:31918
1	Sway_CG_Leptoll_scaff_2_GENE_54_SigP	2	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
1	UBA_Leptoll_Scaffold_8241_GENE_566_SigP	2	0	0	Cation/multidrug efflux pump 548557:551730 forward # pl:8.44 MW:116594
1	Sway_CG_Leptoll_scaff_43_GENE_15_SigP	2	0	0	cation efflux transport 1271055:1274228 forward # pl:7.83 MW:116596
1	Sway_CG_Leptoll_scaff_3_GENE_47_SigP	2	0	0	peptidase, M23/M37 family 183484:184374 reverse # pl:10.45 MW:32357
1	Sway_CG_Leptoll_scaff_25_GENE_59_SigP	4	0	0	carbamoyl phosphate synthetase, large subunit 923120:926362 forward # pl:5.23 MW:118004
1	UBA_Leptoll_Scaffold_8692_GENE_152a_SigP	3	0	0	Hypothetical protein 144506:146251 reverse # pl:10.50 MW:66356
1	UBA_Leptoll_Scaffold_8524_GENE_90_SigP	2	0	0	Preprotein translocase subunit SecD 78649:80223 forward # pl:9.53 MW:56812
1	UBA_Leptoll_Scaffold_7931_GENE_2_SigP	3	0	0	Hypothetical protein 1514:2419 reverse # pl:7.93 MW:34420
1	Sway_CG_Leptoll_scaff_274_GENE_9_SigP	3	0	0	hypothetical protein 2374478:2375383 forward # pl:7.93 MW:34420
1	fer2_scaff_55_GENE_19_SigP	2	0	0	- # Function: Hypothetical protein # pl:9.77 MW:36927
1	UBA_LeptollI_390_31_SigP	2	0	0	(N - Methyl-accepting chemotaxis protein) # pl:6.86 MW:60789

1	UBA_Leptoli_Scaffold_7931_GENE_114_SigP	5	0	0
1	5way_CG_Leptoli_scaff_46_GENE_19_SigP	5	0	0
1	UBA_Leptoli_Scaffold_8241_GENE_57_SigP	2	0	0

undefined product 115221:117488 forward # pI:9.88 MW:83301
cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pI:9.65 MW:108797
Putative cation multidrug efflux pump 56275:59487 reverse # pI:8.91 MW:116573

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB Muck Friable Sample Set - Run 2

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
2	UBA_Leptoll_Scaffold_8524_GENE_128_SigP	177	8	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
2	UBA_Leptoll_Scaffold_8049_GENE_366_SigP	486	1	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
2	5way_CG_Leptoll_scaff_3_GENE_4_SigP	217	2	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
2	UBA_Leptoll_Scaffold_8049_GENE_48_SigP	17	1	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
2	5way_CG_Leptoll_scaff_6_GENE_19_SigP	182	8	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
2	UBA_Leptoll_Scaffold_8135_GENE_9_SigP	495	28	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
2	Unass_bact_scaff_1131_GENE_3_SigP	23	1	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
2	UBA_Leptoll_Scaffold_8241_GENE_297_SigP	229	2	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
2	UBA_Leptoll_Scaffold_8062_GENE_53_SigP	96	2	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
2	5way_CG_Leptoll_scaff_62_GENE_10_SigP	367	28	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
2	UBA_Leptoll_Scaffold_8241_GENE_349_SigP	253	1	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
2	UBA_Leptoll_Scaffold_8524_GENE_249_SigP	172	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
2	5way_CG_Leptoll_scaff_23_GENE_15_SigP	43	16	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
2	UBA_Leptoll_Scaffold_8049_GENE_83_SigP	52	16	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
2	UBA_Leptoll_Scaffold_8241_GENE_238_SigP	81	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
2	UBA_Leptoll_Scaffold_8241_GENE_392_SigP	18	1	0	Hypothetical protein 371271:371777 forward # pl:11.11 MW:18296
2	5way_CG_Leptoll_scaff_4_GENE_16_SigP	87	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
2	5way_CG_Leptoll_scaff_141_GENE_3_SigP	168	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
2	UBA_Leptoll_Scaffold_8241_GENE_565_SigP	38	1	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
2	5way_CG_Leptoll_scaff_178_GENE_9_SigP	9	4	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
2	UBA_Leptoll_Scaffold_8049_GENE_321_SigP	9	4	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
2	UBA_Leptoll_Scaffold_8241_GENE_348_SigP	126	0	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
2	5way_CG_Leptoll_scaff_32_GENE_19_SigP	120	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114
2	5way_CG_Leptoll_scaff_374_GENE_7_SigP	96	27	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
2	UBA_Leptoll_Scaffold_8241_GENE_153_SigP	96	27	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
2	UBA_Leptoll_Scaffold_8062_GENE_34_SigP	60	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
2	5way_CG_Leptoll_scaff_62_GENE_1_SigP	19	3	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
2	5way_CG_Leptoll_scaff_3_GENE_58_SigP	138	1	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
2	UBA_Leptoll_Scaffold_8049_GENE_192_SigP	52	1	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
2	UBA_Leptoll_Scaffold_8241_GENE_121_SigP	111	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
2	5way_CG_Leptoll_scaff_45_GENE_15_SigP	396	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
2	UBA_Leptoll_Scaffold_7931_GENE_352_SigP	16	0	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
2	UBA_Leptoll_Scaffold_7931_GENE_365_SigP	47	4	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
2	5way_CG_Leptoll_scaff_59_GENE_16_SigP	12	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
2	5way_CG_Leptoll_scaff_21_GENE_56_SigP	34	2	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
2	UBA_Leptoll_Scaffold_8241_GENE_81_SigP	34	2	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
2	UBA_Leptoll_Scaffold_8241_GENE_573_SigP	41	2	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
2	5way_CG_Leptoll_scaff_81_GENE_24_SigP	80	2	0	(-) # pl:10.05 MW:15038
2	UBA_LeptollIII_314_4_SigP	80	2	0	(-) # pl:10.05 MW:15038
2	UBA_Leptoll_Scaffold_7931_GENE_97_SigP	15	0	0	Hypothetical protein 95055:95750 reverse # pl:8.82 MW:26173
2	5way_CG_Leptoll_scaff_297_GENE_5_SigP	15	0	0	hypothetical protein 2435933:2436628 forward # pl:8.82 MW:26173
2	5way_CG_Leptoll_scaff_46_GENE_17_SigP	26	1	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
2	UBA_Leptoll_Scaffold_7931_GENE_112_SigP	26	1	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
2	UBA_Leptoll_Scaffold_8524_GENE_201_SigP	23	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
2	UBA_Leptoll_Scaffold_8692_GENE_129_SigP	28	0	0	Uncharacterized NAD(FAD)-dependent dehydrogenases 123535:124674 reverse # pl:7.78 MW:42008
2	5way_CG_Leptoll_scaff_96_GENE_7_SigP	35	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
2	UBA_Leptoll_Scaffold_8027_GENE_50_SigP	37	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
2	5way_CG_Leptoll_scaff_511_GENE_2_SigP	42	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
2	5way_CG_Leptoll_scaff_80_GENE_22_SigP	47	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
2	UBA_Leptoll_Scaffold_8241_GENE_56_SigP	43	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
2	5way_CG_Leptoll_scaff_21_GENE_26_SigP	43	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
2	UBA_Leptoll_Scaffold_8062_GENE_151_SigP	22	2	0	Hypothetical protein 158736:159437 reverse # pl:10.88 MW:26479
2	UBA_Leptoll_Scaffold_8062_GENE_32_SigP	30	2	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
2	5way_CG_Leptoll_scaff_42_GENE_34_SigP	39	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
2	UBA_Leptoll_Scaffold_8135_GENE_71_SigP	16	1	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
2	5way_CG_Leptoll_scaff_333_GENE_9_SigP	10	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
2	UBA_Leptoll_Scaffold_8241_GENE_298_SigP	143	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
2	5way_CG_Leptoll_scaff_98_GENE_12_SigP	50	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
2	5way_CG_Leptoll_scaff_46_GENE_16_SigP	31	4	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
2	UBA_Leptoll_Scaffold_7931_GENE_111_SigP	31	4	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
2	UBA_Leptoll_Scaffold_7931_GENE_16_SigP	10	0	0	Hypothetical protein 12313:12933 reverse # pl:9.26 MW:23588
2	5way_CG_Leptoll_scaff_428_GENE_6_SigP	10	0	0	hypothetical protein 2557294:2557914 reverse # pl:9.26 MW:23588
2	5way_CG_Leptoll_scaff_8_GENE_23_SigP	19	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
2	UBA_Leptoll_Scaffold_8524_GENE_248_SigP	19	0	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
2	UBA_LeptollIII_398_122_SigP	3	1	0	(-) # pl:9.92 MW:13689
2	UBA_Leptoll_Scaffold_8062_GENE_38_SigP	60	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
2	5way_CG_Leptoll_scaff_14_GENE_26_SigP	20	2	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
2	UBA_Leptoll_Scaffold_8241_GENE_522_SigP	20	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
2	5way_CG_Leptoll_scaff_3_GENE_5_SigP	142	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
2	UBA_Leptoll_Scaffold_8062_GENE_236_SigP	39	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
2	UBA_LeptollIII_395_29_SigP	39	0	0	(-) # pl:9.79 MW:70443

2	Sway_CG_Leptoll_scaff_48_GENE_32_SigP	18	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
2	Sway_CG_Leptoll_scaff_2_GENE_49_SigP	21	5	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
2	UBA_Leptoll_Scaffold_7931_GENE_186_SigP	21	5	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
2	UBA_Leptoll_Scaffold_8027_GENE_57_SigP	31	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
2	UBA_Leptoll_Scaffold_8692_GENE_69_SigP	10	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
2	UBA_Leptoll_Scaffold_8241_GENE_32_SigP	26	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194
2	Sway_CG_Leptoll_scaff_42_GENE_33_SigP	64	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
2	UBA_Leptoll_Scaffold_8062_GENE_173_SigP	20	0	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
2	UBA_Leptoll_Scaffold_8241_GENE_114_SigP	149	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
2	Sway_CG_Leptoll_scaff_32_GENE_25_SigP	149	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
2	UBA_Leptoll_Scaffold_8241_GENE_270_SigP	15	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
2	Sway_CG_Leptoll_scaff_43_GENE_22_SigP	32	0	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
2	UBA_Leptoll_Scaffold_8524_GENE_197_SigP	10	0	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
2	Sway_CG_Leptoll_scaff_8_GENE_20_SigP	8	0	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
2	Sway_CG_Leptoll_scaff_43_GENE_14_SigP	30	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
2	Sway_CG_Leptoll_scaff_98_GENE_11_SigP	26	2	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
2	UBA_Leptoll_Scaffold_7931_GENE_338_SigP	31	0	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
2	Sway_CG_Leptoll_scaff_25_GENE_47_SigP	6	0	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
2	Sway_CG_Leptoll_scaff_41_GENE_27_SigP	30	1	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
2	UBA_Leptoll_Scaffold_8241_GENE_295_SigP	7	0	0	Hypothetical protein 274121:274495 forward # pl:9.10 MW:13221
2	UBA_Leptoll_Scaffold_8241_GENE_253_SigP	19	2	0	Putative secretion protein (HlyD) 238386:239528 reverse # pl:7.85 MW:42147
2	UBA_Leptoll_Scaffold_8241_GENE_693_SigP	114	28	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
2	Sway_CG_Leptoll_scaff_98_GENE_16_SigP	27	0	0	hypothetical protein 1939943:1940773 reverse # pl:5.20 MW:28369
2	UBA_Leptoll_Scaffold_8241_GENE_298a_SigP	17	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pl:11.10 MW:25887
2	Sway_CG_Leptoll_scaff_27_GENE_13_SigP	33	0	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
2	UBA_Leptoll_Scaffold_8524_GENE_235_SigP	22	0	0	Cytochrome c551/c552 219925:220257 reverse # pl:9.89 MW:11806
2	UBA_Leptoll_Scaffold_8049_GENE_42a_SigP	10	0	0	Hypothetical protein 34331:34687 reverse # pl:9.86 MW:13687
2	UBA_Leptoll_Scaffold_8524_GENE_165_SigP	11	1	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
2	Sway_CG_Leptoll_scaff_271_GENE_3_SigP	25	0	0	flavoprotein oxidoreductase 2359237:2360376 reverse # pl:7.21 MW:42034
2	Sway_CG_Leptoll_scaff_630_GENE_6_SigP	251	0	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
2	Sway_CG_Leptoll_scaff_21_GENE_53_SigP	8	0	0	hypothetical protein 759903:760511 reverse # pl:9.47 MW:21658
2	Sway_CG_Leptoll_scaff_21_GENE_20_SigP	20	0	0	hypothetical protein 728920:729237 forward # pl:9.18 MW:11040
2	UBA_Leptoll_Scaffold_8049_GENE_209_SigP	20	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
2	UBA_Leptoll_Scaffold_8692_GENE_75_SigP	29	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
2	UBA_Leptoll_Scaffold_8241_GENE_610_SigP	9	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
2	Sway_CG_Leptoll_scaff_96_GENE_14_SigP	28	0	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
2	Sway_CG_Leptoll_scaff_4_GENE_2_SigP	17	2	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
2	UBA_Leptoll_Scaffold_7931_GENE_101_SigP	7	0	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
2	Sway_CG_Leptoll_scaff_46_GENE_4_SigP	7	0	0	hypothetical protein 1366599:1366910 forward # pl:9.43 MW:11021
2	UBA_Leptoll_Scaffold_8241_GENE_524_SigP	13	0	0	Parvulin-like peptidyl-prolyl isomerase 502388:503257 reverse # pl:9.96 MW:32363
2	Sway_CG_Leptoll_scaff_22_GENE_18_SigP	39	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
2	Sway_CG_Leptoll_scaff_25_GENE_41_SigP	9	0	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
2	Sway_CG_Leptoll_scaff_141_GENE_2_SigP	8	0	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
2	UBA_Leptoll_Scaffold_7931_GENE_87_SigP	27	0	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
2	Sway_CG_Leptoll_scaff_66_GENE_21_SigP	27	0	0	hypothetical protein 1603957:1604319 reverse # pl:8.80 MW:13441
2	UBA_LeptollIII_390_49_SigP	9	1	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
2	Sway_CG_Leptoll_scaff_32_GENE_24_SigP	21	1	0	hypothetical protein 1095187:1095858 forward # pl:4.69 MW:23690
2	Sway_CG_Leptoll_scaff_42_GENE_27_SigP	8	0	0	hypothetical protein 1233635:1234360 forward # pl:9.49 MW:27054
2	UBA_Leptoll_Scaffold_8524_GENE_216_SigP	16	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
2	UBA_Leptoll_Scaffold_8524_GENE_269_SigP	13	0	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589
2	UBA_Leptoll_Scaffold_7931_GENE_98_SigP	15	0	0	Hypothetical protein 96019:96525 forward # pl:9.43 MW:19616
2	Sway_CG_Leptoll_scaff_297_GENE_4_SigP	15	0	0	hypothetical protein 2435158:2435664 reverse # pl:9.43 MW:19616
2	UBA_LeptollIII_398_2_SigP	5	0	0	(-) # pl:10.81 MW:15675
2	UBA_Leptoll_Scaffold_8692_GENE_49_SigP	26	0	0	FOG 51650:53845 reverse # pl:9.71 MW:84153
2	Sway_CG_Leptoll_scaff_120_GENE_4_SigP	8	0	0	efflux protein, CzcB 1968652:1969776 reverse # pl:9.89 MW:41685
2	UBA_Leptoll_Scaffold_7931_GENE_73_SigP	36	0	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
2	Sway_CG_Leptoll_scaff_66_GENE_6_SigP	36	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pl:5.78 MW:23665
2	Sway_CG_Leptoll_scaff_14_GENE_50_SigP	11	0	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
2	Sway_CG_Leptoll_scaff_3_GENE_6_SigP	13	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
2	Sway_CG_Leptoll_scaff_44_GENE_17_SigP	12	2	0	malate dehydrogenase 1311610:1312572 forward # pl:6.14 MW:34712
2	UBA_Leptoll_Scaffold_8027_GENE_31_SigP	13	2	0	Malate/lactate dehydrogenases 32641:33603 forward # pl:6.37 MW:34682
2	Sway_CG_Leptoll_scaff_30_GENE_6_SigP	8	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
2	UBA_LeptollIII_364_1_SigP	8	0	0	(-) # pl:10.85 MW:12350
2	UBA_Leptoll_Scaffold_8062_GENE_31_SigP	6	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
2	UBA_Leptoll_Scaffold_8692_GENE_5_SigP	39	0	0	Hypothetical protein 4993:5544 forward # pl:10.17 MW:19972
2	UBA_Leptoll_Scaffold_8241_GENE_175_SigP	6	0	0	Hypothetical protein 167847:168170 forward # pl:5.03 MW:11883
2	Sway_CG_Leptoll_scaff_4_GENE_82_SigP	6	0	0	hypothetical protein 316894:317217 reverse # pl:5.03 MW:11881
2	Sway_CG_Leptoll_scaff_175_GENE_9_SigP	12	0	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746
2	UBA_Leptoll_Scaffold_7931_GENE_363_SigP	13	0	0	Peroxioredoxin 418582:419157 forward # pl:9.67 MW:21131
2	UBA_Leptoll_Scaffold_8135_GENE_81_SigP	10	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
2	UBA_Leptoll_Scaffold_8049_GENE_3_SigP	10	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
2	Sway_CG_Leptoll_scaff_25_GENE_2_SigP	10	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
2	Sway_CG_Leptoll_scaff_120_GENE_14_SigP	10	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
2	Sway_CG_Leptoll_scaff_30_GENE_22_SigP	20	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
2	UBA_Leptoll_Scaffold_8524_GENE_101_SigP	16	1	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
2	UBA_LeptollIII_388_1_SigP	7	0	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401

2	UBA_Leptoll_Scaffold_7931_GENE_281_SigP	7	0	0	Periplasmic protein involved in polysaccharide ex port 311387:312244 reverse # pl:9.91 MW:31407
2	Sway_CG_Leptoll_scaff_86_GENE_7_SigP	16	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
2	Unass_bact_scaff_903_GENE_5_SigP	3	0	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
2	UBA_Leptoll_Scaffold_8241_GENE_472_SigP	9	1	0	Thiol-disulfide isomerase and thioredoxins 451265:452311 forward # pl:7.73 MW:38930
2	Sway_CG_Leptoll_scaff_183_GENE_6_SigP	3	0	0	hypothetical protein 2174071:2174934 forward # pl:9.26 MW:31876
2	UBA_Leptoll_Scaffold_7931_GENE_123_SigP	5	0	0	Cytochrome c 128641:129270 forward # pl:9.68 MW:29622
2	Sway_CG_Leptoll_scaff_46_GENE_28_SigP	5	0	0	cytochrome c 1396147:1396956 forward # pl:9.68 MW:29622
2	Sway_CG_Leptoll_scaff_3_GENE_101_SigP	3	0	0	hypothetical protein 235037:235543 forward # pl:10.62 MW:18410
2	UBA_Leptoll_Scaffold_7931_GENE_349_SigP	4	0	0	Hypothetical protein 403648:404268 reverse # pl:6.14 MW:22293
2	Sway_CG_Leptoll_scaff_86_GENE_19_SigP	4	0	0	hypothetical protein 1861083:1861703 reverse # pl:6.14 MW:22162
2	Sway_CG_Leptoll_scaff_186_GENE_4_SigP	8	1	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
2	UBA_Leptoll_Scaffold_7931_GENE_128_SigP	8	1	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
2	Sway_CG_Leptoll_scaff_7_GENE_28_SigP	4	0	0	polysaccharide transport 455498:456805 reverse # pl:9.72 MW:31514
2	Sway_CG_Leptoll_scaff_8_GENE_58_SigP	6	0	0	cytochrome c-551 558486:558818 reverse # pl:10.02 MW:11872
2	UBA_LeptollI_361_11_SigP	3	0	0	(-) # pl:9.66 MW:26334
2	Sway_CG_Leptoll_scaff_8_GENE_36_SigP	7	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
2	UBA_Leptoll_Scaffold_8241_GENE_21_SigP	5	1	0	Putative phospholipid binding protein 18471:19037 reverse # pl:9.81 MW:20481
2	Sway_CG_Leptoll_scaff_42_GENE_24_SigP	5	1	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
2	Sway_CG_Leptoll_scaff_68_GENE_16_SigP	8	0	0	hypothetical protein 1654556:1655425 forward # pl:9.89 MW:31842
2	Sway_CG_Leptoll_scaff_41_GENE_29_SigP	9	0	0	bacterioferritin comigratory protein/peroxiredoxin 1204208:1204783 reverse # pl:9.67 MW:21373
2	Sway_CG_Leptoll_scaff_443_GENE_8_SigP	2	1	0	transposase 2585079:2585708 forward # pl:10.58 MW:23379
2	UBA_Leptoll_Scaffold_8692_GENE_133_SigP	3	0	0	Hypothetical protein 127591:128046 forward # pl:9.36 MW:16779
2	Sway_CG_Leptoll_scaff_271_GENE_7_SigP	3	0	0	hypothetical protein 2363290:2363745 forward # pl:9.40 MW:16789
2	UBA_Leptoll_Scaffold_8027_GENE_55_SigP	5	0	0	FOG 55616:56380 forward # pl:9.75 MW:29641
2	Sway_CG_Leptoll_scaff_96_GENE_12_SigP	5	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
2	Sway_CG_Leptoll_scaff_53_GENE_23_SigP	2	0	0	hypothetical protein 1493027:1493584 reverse # pl:6.10 MW:20271
2	UBA_Leptoll_Scaffold_8524_GENE_127_SigP	15	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pl:9.38 MW:87643
2	Sway_CG_Leptoll_scaff_6_GENE_20_SigP	15	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
2	UBA_Leptoll_Scaffold_8062_GENE_268_SigP	5	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
2	UBA_LeptollI_395_61_SigP	5	0	0	(-) # pl:9.73 MW:17490
2	Sway_CG_Leptoll_scaff_265_GENE_14_SigP	5	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
2	UBA_Leptoll_Scaffold_8049_GENE_47_SigP	8	0	0	Hypothetical protein 37752:38414 reverse # pl:9.93 MW:24100
2	UBA_Leptoll_Scaffold_8049_GENE_109_SigP	3	0	0	Hypothetical protein 103611:104141 forward # pl:9.51 MW:19740
2	Sway_CG_Leptoll_scaff_23_GENE_41_SigP	3	0	0	hypothetical protein 865371:865901 forward # pl:9.51 MW:19771
2	UBA_LeptollI_317_6_SigP	7	0	0	(C - Pyruvate:ferredoxin oxidoreductase and related 2-oxoacid:ferredoxin oxidoreductases, gamma subunit) # pl:8.83 MW:25186
2	UBA_Leptoll_Scaffold_8524_GENE_98_SigP	6	0	0	undefined product 87262:87864 forward # pl:7.20 MW:22096
2	Sway_CG_Leptoll_scaff_94_GENE_5_SigP	10	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
2	UBA_Leptoll_Scaffold_7931_GENE_119a_SigP	3	0	0	Hypothetical protein 122985:123505 reverse # pl:11.72 MW:18723
2	Sway_CG_Leptoll_scaff_46_GENE_24_SigP	3	0	0	hypothetical protein 1390670:1391191 reverse # pl:11.72 MW:18723
2	UBA_LeptollI_394_70_SigP	3	0	0	(-) # pl:10.49 MW:18094
2	Sway_CG_Leptoll_scaff_48_GENE_30_SigP	6	0	0	peptidyl-prolyl cis-trans isomerase 1425137:1426006 forward # pl:9.84 MW:32345
2	UBA_Leptoll_Scaffold_8062_GENE_26_SigP	3	0	0	Hypothetical protein 27591:28298 forward # pl:11.34 MW:26068
2	UBA_Leptoll_Scaffold_7931_GENE_383_SigP	6	0	0	undefined product 441204:441656 forward # pl:7.12 MW:15956
2	Sway_CG_Leptoll_scaff_41_GENE_9_SigP	6	0	0	hypothetical protein 1181714:1182166 reverse # pl:7.84 MW:15936
2	Sway_CG_Leptoll_scaff_265_GENE_9_SigP	3	0	0	hypothetical protein 2352589:2352975 reverse # pl:9.99 MW:12105
2	Sway_CG_Leptoll_scaff_98_GENE_4_SigP	2	0	0	hypothetical protein 1928434:1929141 forward # pl:11.10 MW:26097
2	Sway_CG_Leptoll_scaff_167_GENE_7_SigP	10	0	0	hypothetical protein 2094828:2096972 reverse # pl:8.62 MW:78226
2	UBA_Leptoll_Scaffold_8049_GENE_231_SigP	4	0	0	undefined product 234810:236060 forward # pl:9.67 MW:47283
2	UBA_Leptoll_Scaffold_8241_GENE_79_SigP	4	0	0	Hypothetical protein 78556:79164 reverse # pl:9.58 MW:21627
2	Sway_CG_Leptoll_scaff_80_GENE_19_SigP	6	1	0	thiol-disulfide isomerase 1807699:1808745 reverse # pl:8.70 MW:38966
2	Sway_CG_Leptoll_scaff_265_GENE_1_SigP	9	0	0	hypothetical protein 2347717:2348634 reverse # pl:9.78 MW:29226
2	UBA_LeptollI_391_4_SigP	7	0	0	(-) # pl:10.15 MW:22759
2	UBA_Leptoll_Scaffold_8241_GENE_690_SigP	30	0	0	Hypothetical protein 681251:682891 forward # pl:4.70 MW:59054
2	UBA_Leptoll_Scaffold_8135_GENE_5_SigP	6	0	0	FOG 3195:4136 forward # pl:9.10 MW:34971
2	Sway_CG_Leptoll_scaff_22_GENE_28_SigP	3	0	0	hypothetical protein 794184:794561 reverse # pl:10.83 MW:14375
2	UBA_Leptoll_Scaffold_8049_GENE_55_SigP	3	0	0	Hypothetical protein 42266:42961 forward # pl:7.09 MW:26271
2	UBA_Leptoll_Scaffold_8241_GENE_103_SigP	5	0	0	undefined product 104291:105808 reverse # pl:4.37 MW:54784
2	Sway_CG_Leptoll_scaff_96_GENE_5_SigP	3	0	0	hypothetical protein 1906272:1907108 forward # pl:11.31 MW:30636
2	UBA_Leptoll_Scaffold_8241_GENE_570_SigP	11	0	0	Outer membrane protein 555547:557019 forward # pl:9.35 MW:54952
2	Sway_CG_Leptoll_scaff_43_GENE_19_SigP	11	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
2	Sway_CG_Leptoll_scaff_22_GENE_33_SigP	13	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
2	UBA_Leptoll_Scaffold_8049_GENE_42_SigP	6	0	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108
2	UBA_Leptoll_Scaffold_8049_GENE_177_SigP	2	0	0	Hypothetical protein 174292:174618 reverse # pl:9.94 MW:11405
2	Sway_CG_Leptoll_scaff_318_GENE_7_SigP	2	0	0	hypothetical protein 2471200:2471523 reverse # pl:9.94 MW:11405
2	Sway_CG_Leptoll_scaff_167_GENE_10_SigP	13	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
2	UBA_Leptoll_Scaffold_8692_GENE_147_SigP	7	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
2	Unass_bact_scaff_1002_GENE_2_SigP	4	0	0	- # Function: Hypothetical protein # pl:4.82 MW:20989
2	Sway_CG_Leptoll_scaff_4_GENE_70_SigP	5	0	0	dehydrogenase 307021:307728 reverse # pl:8.81 MW:25390
2	UBA_LeptollI_399_92_SigP	3	1	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
2	UBA_Leptoll_Scaffold_7931_GENE_191_SigP	3	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
2	Sway_CG_Leptoll_scaff_13_GENE_57_SigP	6	0	0	hypothetical protein 633696:634211 reverse # pl:9.45 MW:19141
2	UBA_Leptoll_Scaffold_8062_GENE_258_SigP	3	0	0	Hypothetical protein 266641:267096 forward # pl:10.18 MW:17026
2	UBA_LeptollI_395_51_SigP	3	0	0	(-) # pl:10.18 MW:17026
2	Sway_CG_Leptoll_scaff_27_GENE_35_SigP	3	0	0	hypothetical protein 1011242:1011697 forward # pl:10.11 MW:17026
2	Sway_CG_Leptoll_scaff_4_GENE_7_SigP	6	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
2	gpl_scaff_198_GENE_2_SigP	5	0	0	# Gene_name: FixC # Function: Dehydrogenases (flavoproteins) # e-36 # pl:6.27 MW:44603

2	UBA_Leptoll_Scaffold_7931_GENE_133_SigP	3	0	0	Hypothetical protein 138630:139502 forward # pl:9.94 MW:31918
2	Sway_CG_Leptoll_scaff_186_GENE_8_SigP	3	0	0	hypothetical protein 2199191:220063 forward # pl:9.94 MW:31918
2	UBA_Leptoll_Scaffold_328_11_SigP	6	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
2	Sway_CG_Leptoll_scaff_6_GENE_46_SigP	12	0	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
2	Sway_CG_Leptoll_scaff_4_GENE_62_SigP	7	0	0	methyl-accepting chemotaxis protein 301193:302866 forward # pl:8.95 MW:60984
2	UBA_Leptoll_Scaffold_8062_GENE_328_SigP	4	0	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
2	UBA_Leptoll_Scaffold_7931_GENE_10_SigP	4	0	0	Putative protease S49 7025:7912 reverse # pl:9.84 MW:31652
2	Sway_CG_Leptoll_scaff_274_GENE_2_SigP	4	0	0	signal peptidase 2368985:2369872 forward # pl:9.84 MW:31652
2	Sway_CG_Leptoll_scaff_2_GENE_44_SigP	7	0	0	soluble lytic transglycosylase 48347:50407 reverse # pl:10.33 MW:77488
2	UBA_Leptoll_Scaffold_399_60_SigP	3	0	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
2	Sway_CG_Leptoll_scaff_32_GENE_26_SigP	2	0	0	hypothetical protein 1097633:1098259 forward # pl:6.00 MW:23714
2	Sway_CG_Leptoll_scaff_32_GENE_52_SigP	4	0	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
2	Sway_CG_Leptoll_scaff_32_GENE_21_SigP	3	0	0	sensor histidine kinase 1091875:1093515 reverse # pl:6.85 MW:60921
2	UBA_Leptoll_Scaffold_8241_GENE_337_SigP	6	0	0	Peptidase M23/M37 family 319746:320636 reverse # pl:10.67 MW:32300
2	UBA_Leptoll_Scaffold_8135_GENE_6_SigP	2	0	0	Hypothetical protein 4393:5034 reverse # pl:9.73 MW:24126
2	Sway_CG_Leptoll_scaff_62_GENE_7_SigP	2	0	0	hypothetical protein 1561859:1562500 reverse # pl:9.99 MW:24347
2	Sway_CG_Leptoll_scaff_98_GENE_10_SigP	5	0	0	hypothetical protein 1933888:1934532 forward # pl:9.80 MW:24317
2	Sway_CG_Leptoll_scaff_27_GENE_41_SigP	9	0	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
2	UBA_Leptoll_Scaffold_8027_GENE_48a_SigP	3	0	0	Hypothetical protein 47726:48559 forward # pl:11.68 MW:30762
2	UBA_Leptoll_Scaffold_8241_GENE_256_SigP	4	0	0	Hypothetical protein 241268:241888 reverse # pl:10.64 MW:22967
2	Sway_CG_Leptoll_scaff_59_GENE_28_SigP	4	0	0	hypothetical protein 1554663:1555283 forward # pl:10.76 MW:22906
2	UBA_Leptoll_Scaffold_8692_GENE_161_SigP	5	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
2	UBA_Leptoll_Scaffold_8062_GENE_198_SigP	4	0	0	Methyl-accepting chemotaxis protein 207853:209586 forward # pl:7.22 MW:63761
2	Sway_CG_Leptoll_scaff_135_GENE_8_SigP	4	0	0	methyl-accepting chemotaxis protein 2005301:2007034 forward # pl:6.87 MW:63854
2	Sway_CG_Leptoll_scaff_25_GENE_46_SigP	7	0	0	hypothetical protein 912913:913575 reverse # pl:10.04 MW:23895
2	Sway_CG_Leptoll_scaff_224_GENE_8_SigP	2	0	0	hypothetical protein 2292752:2293084 forward # pl:10.09 MW:11851
2	UBA_Leptoll_Scaffold_397_16_SigP	3	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:9.97 MW:35837
2	UBA_Leptoll_Scaffold_8049_GENE_68_SigP	3	0	0	Pyruvate/2-oxoglutarate dehydrogenase complex, di hydrolypoamide dehydrogenase (E3) component, and related enzymes 54324:55709 reverse # pl:6.71 MW:49659
2	UBA_Leptoll_Scaffold_7931_GENE_311_SigP	9	0	0	FOG 348657:351887 forward # pl:9.10 MW:118365
2	Sway_CG_Leptoll_scaff_287_GENE_4_SigP	3	0	0	hypothetical protein 2399359:2399979 reverse # pl:8.69 MW:22528
2	fer1_scaff_300_GENE_5_SigP	3	0	0	# Gene_name: FadB # Function: 3-Hydroxyacyl-CoA dehydrogenase # e-118 # pl:5.47 MW:71148
2	UBA_Leptoll_Scaffold_7931_GENE_181_SigP	5	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pl:10.33 MW:77941
2	Sway_CG_Leptoll_scaff_25_GENE_53_SigP	2	0	0	hypothetical protein 917425:918120 forward # pl:7.75 MW:26216
2	UBA_Leptoll_Scaffold_8241_GENE_55_SigP	3	0	0	Conserved hypothetical protein 53795:55249 reverse # pl:8.85 MW:54208
2	Sway_CG_Leptoll_scaff_59_GENE_29_SigP	3	0	0	outer membrane efflux protein 1555634:1557010 forward # pl:8.91 MW:51472
2	UBA_Leptoll_Scaffold_8135_GENE_45_SigP	2	0	0	Predicted secreted hydrolase 44062:45204 forward # pl:9.88 MW:42796
2	UBA_Leptoll_Scaffold_8027_GENE_49_SigP	4	0	0	Periplasmic component of the Tol biopolymer transport system 48552:49895 forward # pl:9.05 MW:50054
2	UBA_Leptoll_Scaffold_8241_GENE_211_SigP	2	0	0	Hypothetical protein 198087:198596 reverse # pl:10.75 MW:19344
2	Sway_CG_Leptoll_scaff_4_GENE_43_SigP	2	0	0	hypothetical protein 282883:283392 forward # pl:10.61 MW:19340
2	Sway_CG_Leptoll_scaff_32_GENE_36_SigP	4	0	0	hypothetical protein 1104400:1105929 forward # pl:4.32 MW:55077
2	UBA_Leptoll_Scaffold_8049_GENE_108_SigP	3	0	0	Signal transduction histidine kinase 102094:103614 forward # pl:6.08 MW:56422
2	Sway_CG_Leptoll_scaff_53_GENE_11_SigP	5	0	0	hypothetical protein 1475234:1476562 reverse # pl:9.99 MW:49997
2	Sway_CG_Leptoll_scaff_473_GENE_6_SigP	2	0	0	hypothetical protein 2604173:2604670 reverse # pl:10.24 MW:18719
2	UBA_Leptoll_Scaffold_8049_GENE_61_SigP	8	0	0	Carbamoylphosphate synthase large subunit (split gene in MJ) 47956:51198 forward # pl:5.25 MW:117734
2	Sway_CG_Leptoll_scaff_25_GENE_59_SigP	8	0	0	carbamoyl phosphate synthetase, large subunit 923120:926362 forward # pl:5.23 MW:118004
2	UBA_Leptoll_Scaffold_8241_GENE_196_SigP	6	0	0	Putative methyl-accepting chemotaxis protein 183744:185417 reverse # pl:8.32 MW:61190
2	Sway_CG_Leptoll_scaff_21_GENE_25_SigP	6	0	0	hypothetical protein 735291:736745 reverse # pl:7.80 MW:53899
2	UBA_Leptoll_Scaffold_8241_GENE_630_SigP	2	0	0	Kef-type K+ transport systems, predicted NAD-bind ing component 612785:613828 forward # pl:5.78 MW:37736
2	Sway_CG_Leptoll_scaff_32_GENE_15_SigP	2	0	0	hypothetical protein 1087013:1087738 forward # pl:7.91 MW:25653
2	UBA_Leptoll_Scaffold_8241_GENE_149_SigP	84	0	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
2	UBA_Leptoll_Scaffold_8135_GENE_85_SigP	2	0	0	Prephenate dehydrogenase 88333:89241 forward # pl:6.38 MW:33399
2	UBA_Leptoll_Scaffold_395_59_SigP	2	0	0	(-) # pl:9.43 MW:19080
2	UBA_Leptoll_Scaffold_8241_GENE_643_SigP	3	0	0	Flagellar basal-body P-ring protein 626248:627312 forward # pl:9.81 MW:37404
2	Sway_CG_Leptoll_scaff_13_GENE_22_SigP	3	0	0	flagellar P-ring protein 600771:601835 reverse # pl:9.86 MW:37671
2	Sway_CG_Leptoll_scaff_96_GENE_6_SigP	3	0	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
2	UBA_Leptoll_Scaffold_8524_GENE_225_SigP	2	0	0	Hypothetical protein 208344:209684 forward # pl:7.25 MW:49701
2	UBA_Leptoll_Scaffold_8692_GENE_45_SigP	5	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
2	Sway_CG_Leptoll_scaff_30_GENE_28_SigP	5	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
2	gpl_scaff_77_GENE_13_SigP	2	1	0	- # Function: Hypothetical protein # pl:5.57 MW:25526
2	UBA_Leptoll_Scaffold_8049_GENE_37_SigP	3	0	0	undefined product 28961:29926 forward # pl:8.99 MW:35904
2	UBA_Leptoll_Scaffold_8241_GENE_284_SigP	2	0	0	Probable acid phosphatase 260993:261982 reverse # pl:9.74 MW:37001
2	Sway_CG_Leptoll_scaff_59_GENE_6_SigP	2	0	0	acid phosphatase 1535913:1536902 forward # pl:9.49 MW:37053
2	UBA_Leptoll_Scaffold_8241_GENE_566_SigP	3	0	0	Cation/multidrug efflux pump 548557:551730 forward # pl:8.44 MW:116594
2	Sway_CG_Leptoll_scaff_43_GENE_15_SigP	3	0	0	cation efflux transport 1271055:1274228 forward # pl:7.83 MW:116596
2	UBA_Leptoll_Scaffold_7931_GENE_377_SigP	3	0	0	undefined product 432399:433847 forward # pl:4.30 MW:52721
2	Sway_CG_Leptoll_scaff_41_GENE_16_SigP	3	0	0	hypothetical protein 1189524:1190972 reverse # pl:4.22 MW:52723
2	UBA_Leptoll_Scaffold_7931_GENE_114_SigP	9	0	0	undefined product 115221:117488 forward # pl:9.88 MW:83301
2	Sway_CG_Leptoll_scaff_46_GENE_19_SigP	9	0	0	cellulose synthase, subunit B 1382907:1385174 forward # pl:9.88 MW:83301
2	Sway_CG_Leptoll_scaff_141_GENE_13_SigP	2	0	0	hypothetical protein 2053552:2055267 reverse # pl:10.10 MW:62702
2	UBA_Leptoll_Scaffold_8241_GENE_254_SigP	3	0	0	Outer membrane efflux protein 239540:240916 reverse # pl:8.91 MW:51398
2	Sway_CG_Leptoll_scaff_483_GENE_2_SigP	2	0	0	mercuric reductase 2619783:2621168 reverse # pl:6.58 MW:49677
2	UBA_Leptoll_Scaffold_8692_GENE_152a_SigP	4	0	0	Hypothetical protein 144506:146251 reverse # pl:10.50 MW:66356
2	UBA_Leptoll_Scaffold_8049_GENE_222_SigP	3	0	0	undefined product 222220:223356 forward # pl:9.66 MW:42938
2	UBA_Leptoll_Scaffold_7931_GENE_176_SigP	3	0	0	Predicted HD superfamily hydrolase 187397:188962 reverse # pl:6.12 MW:58581
2	UBA_Leptoll_Scaffold_7931_GENE_32_SigP	2	0	0	Hypothetical protein 27920:29092 reverse # pl:9.33 MW:43431
2	UBA_Leptoll_Scaffold_8524_GENE_244_SigP	2	0	0	Cbb3-type cytochrome oxidase, subunit 1 232629:234011 forward # pl:9.07 MW:51749

2	UBA_Leptoll_Scaffold_8049_GENE_301_SigP	2	0	0	Hypothetical protein 294131:294550 reverse # pl:6.96 MW:14903
2	UBA_LeptollI_332_4_SigP	2	0	0	(-) # pl:8.60 MW:14958
2	UBA_Leptoll_Scaffold_8524_GENE_169_SigP	2	0	0	Integral membrane protein (PIN domain superfamily) 155778:156833 forward # pl:8.85 MW:38330
2	Sway_CG_Leptoll_scaff_68_GENE_11_SigP	2	0	0	pili retraction protein PilT 1649664:1650719 reverse # pl:8.85 MW:38316
2	UBA_LeptollI_361_10_SigP	2	0	0	(-) # pl:9.57 MW:54911
2	UBA_Leptoll_Scaffold_8241_GENE_469_SigP	5	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
2	Sway_CG_Leptoll_scaff_53_GENE_17_SigP	3	0	0	hypothetical protein 1482065:1483813 reverse # pl:10.58 MW:67070
2	UBA_Leptoll_Scaffold_7931_GENE_347_SigP	2	0	0	Hypothetical protein 402145:403218 reverse # pl:8.65 MW:39325
2	Sway_CG_Leptoll_scaff_23_GENE_40_SigP	2	0	0	two-component sensor histidine kinase 863854:865374 forward # pl:5.90 MW:56441
2	UBA_Leptoll_Scaffold_7931_GENE_1_SigP	3	0	0	Membrane proteins related to metalloendopeptidase s 348:1544 reverse # pl:10.10 MW:46222
2	Sway_CG_Leptoll_scaff_274_GENE_10_SigP	3	0	0	hypothetical protein 2375353:2376549 forward # pl:10.10 MW:46222
2	UBA_LeptollI_394_18_SigP	4	0	0	(C - Cytochrome c) # pl:9.67 MW:28371
2	Sway_CG_Leptoll_scaff_865_GENE_1_SigP	3	0	0	hypothetical protein 2820338:2820835 forward # pl:4.07 MW:17740
2	Sway_CG_Leptoll_scaff_62_GENE_5_SigP	3	0	0	hypothetical protein 1560383:1561324 forward # pl:8.96 MW:35059
2	Unass_arch_scaff_986_GENE_2_SigP	2	0	0	# Gene_name: UgpB # Function: Sugar-binding periplasmic proteins/domains # e-47 # pl:5.75 MW:51639
2	Sway_CG_Leptoll_scaff_2_GENE_40_SigP	2	0	0	hydrolase (HAD superfamily) 44416:45981 reverse # pl:6.21 MW:58492
2	UBA_Leptoll_Scaffold_8524_GENE_90_SigP	2	0	0	Preprotein translocase subunit SecD 78649:80223 forward # pl:9.53 MW:56812
2	Unass_bact_scaff_920_GENE_3_SigP	3	0	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
2	UBA_LeptollI_394_29_SigP	3	0	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
2	Unass_arch_scaff_525_GENE_5_SigP	2	0	0	- # Function: Hypothetical protein # pl:8.03 MW:70772
2	Sway_CG_Leptoll_scaff_53_GENE_26_SigP	4	0	0	hypothetical protein 1495267:1496724 reverse # pl:10.11 MW:49724
2	UBA_LeptollI_384_28_SigP	2	0	0	(C - Malate/lactate dehydrogenases) # pl:6.34 MW:34591
2	Sway_CG_Leptoll_scaff_30_GENE_31_SigP	2	0	0	sensory transduction histidine kinase 1059803:1061593 forward # pl:9.30 MW:67950
2	Sway_CG_Leptoll_scaff_120_GENE_3_SigP	3	0	0	heavy metal efflux pump CzcA 1965572:1968655 reverse # pl:10.02 MW:112549
2	Sway_CG_Leptoll_scaff_45_GENE_46_SigP	2	1	0	undefined product 325803:326885 reverse # pl:9.99 MW:39997
2	UBA_Leptoll_Scaffold_8049_GENE_337_SigP	2	1	0	undefined product 325803:326885 reverse # pl:9.99 MW:39997
2	UBA_LeptollI_391_22_SigP	2	0	0	(R - FOG: TPR repeat) # pl:8.84 MW:118396
2	UBA_Leptoll_Scaffold_8241_GENE_119_SigP	2	0	0	Putative histidine kinase 116577:118217 forward # pl:6.83 MW:60830
2	UBA_LeptollI_390_31_SigP	3	0	0	(N - Methyl-accepting chemotaxis protein) # pl:6.86 MW:60789
2	Sway_CG_Leptoll_scaff_3_GENE_47_SigP	2	0	0	peptidase, M23/M37 family 183484:184374 reverse # pl:10.45 MW:32357
2	UBA_Leptoll_Scaffold_8062_GENE_68_SigP	2	0	0	Type IV secretory pathway, VirD4 components 65544:67637 reverse # pl:8.81 MW:76328
2	UBA_LeptollI_397_75_SigP	4	0	0	(N - Methyl-accepting chemotaxis protein) # pl:8.58 MW:61775
2	UBA_LeptollI_396_5_SigP	2	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
2	UBA_Leptoll_Scaffold_8241_GENE_315_SigP	2	0	0	Conserved hypothetical protein 296065:297471 reverse # pl:6.27 MW:53506
2	Sway_CG_Leptoll_scaff_3_GENE_22_SigP	2	0	0	hypothetical protein 158070:159476 reverse # pl:6.31 MW:53537
2	UBA_Leptoll_Scaffold_8135_GENE_44_SigP	3	0	0	ABC-type antimicrobial peptide transport system, p ermease component 41511:44069 forward # pl:10.09 MW:94090

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB Muck Friable Sample Set - Run 3

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
3	UBA_Leptoll_Scaffold_8524_GENE_128_SigP	228	10	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
3	UBA_Leptoll_Scaffold_8135_GENE_9_SigP	450	35	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
3	UBA_Leptoll_Scaffold_8049_GENE_366_SigP	497	1	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
3	5way_CG_Leptoll_scaff_6_GENE_19_SigP	210	10	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
3	5way_CG_Leptoll_scaff_62_GENE_10_SigP	354	35	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
3	UBA_Leptoll_Scaffold_8241_GENE_297_SigP	281	2	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
3	5way_CG_Leptoll_scaff_178_GENE_9_SigP	9	3	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
3	UBA_Leptoll_Scaffold_8049_GENE_321_SigP	9	3	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
3	5way_CG_Leptoll_scaff_3_GENE_4_SigP	265	7	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
3	Unass_bact_scaff_1131_GENE_3_SigP	24	1	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
3	5way_CG_Leptoll_scaff_23_GENE_15_SigP	38	13	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
3	5way_CG_Leptoll_scaff_4_GENE_16_SigP	98	1	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
3	UBA_Leptoll_Scaffold_8241_GENE_238_SigP	90	1	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
3	UBA_Leptoll_Scaffold_8049_GENE_83_SigP	53	13	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
3	UBA_Leptoll_Scaffold_8524_GENE_235_SigP	20	0	0	Cytochrome c551/c552 219925:220257 reverse # pl:9.89 MW:11806
3	5way_CG_Leptoll_scaff_62_GENE_1_SigP	18	2	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
3	UBA_Leptoll_Scaffold_8524_GENE_249_SigP	129	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
3	UBA_Leptoll_Scaffold_8062_GENE_53_SigP	87	4	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
3	UBA_Leptoll_Scaffold_8049_GENE_192_SigP	50	1	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
3	UBA_Leptoll_Scaffold_8049_GENE_48_SigP	20	2	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
3	UBA_Leptoll_Scaffold_7931_GENE_365_SigP	51	4	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
3	5way_CG_Leptoll_scaff_32_GENE_19_SigP	95	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114
3	UBA_Leptoll_Scaffold_8062_GENE_34_SigP	65	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
3	UBA_Leptoll_Scaffold_8062_GENE_151_SigP	24	1	0	Hypothetical protein 158736:159437 reverse # pl:10.88 MW:26479
3	5way_CG_Leptoll_scaff_511_GENE_2_SigP	38	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
3	5way_CG_Leptoll_scaff_45_GENE_15_SigP	362	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
3	5way_CG_Leptoll_scaff_374_GENE_7_SigP	117	20	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
3	UBA_Leptoll_Scaffold_8241_GENE_153_SigP	117	20	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
3	UBA_Leptoll_Scaffold_8241_GENE_121_SigP	92	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
3	5way_CG_Leptoll_scaff_141_GENE_3_SigP	118	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
3	UBA_Leptoll_Scaffold_8241_GENE_348_SigP	104	3	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
3	UBA_Leptoll_Scaffold_8241_GENE_349_SigP	233	0	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
3	5way_CG_Leptoll_scaff_41_GENE_27_SigP	38	1	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
3	5way_CG_Leptoll_scaff_14_GENE_26_SigP	21	1	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
3	UBA_Leptoll_Scaffold_8524_GENE_269_SigP	17	2	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589
3	UBA_Leptoll_Scaffold_8524_GENE_197_SigP	13	0	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
3	5way_CG_Leptoll_scaff_98_GENE_12_SigP	57	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
3	5way_CG_Leptoll_scaff_42_GENE_33_SigP	67	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
3	UBA_Leptoll_Scaffold_8049_GENE_209_SigP	30	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
3	UBA_Leptoll_Scaffold_7931_GENE_338_SigP	40	0	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
3	UBA_Leptoll_Scaffold_8241_GENE_565_SigP	36	0	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
3	UBA_Leptoll_Scaffold_8524_GENE_201_SigP	20	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
3	5way_CG_Leptoll_scaff_81_GENE_24_SigP	70	4	0	(-) # pl:10.05 MW:15038
3	UBA_Leptoll_Scaff_314_4_SigP	70	4	0	(-) # pl:10.05 MW:15038
3	5way_CG_Leptoll_scaff_80_GENE_22_SigP	38	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
3	UBA_Leptoll_Scaffold_8241_GENE_392_SigP	16	3	0	Hypothetical protein 371271:371777 forward # pl:11.11 MW:18296
3	5way_CG_Leptoll_scaff_333_GENE_9_SigP	8	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
3	5way_CG_Leptoll_scaff_46_GENE_16_SigP	44	5	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
3	UBA_Leptoll_Scaffold_7931_GENE_111_SigP	44	5	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
3	UBA_Leptoll_Scaffold_8241_GENE_56_SigP	41	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
3	5way_CG_Leptoll_scaff_21_GENE_26_SigP	41	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
3	UBA_Leptoll_Scaffold_8241_GENE_32_SigP	24	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194
3	UBA_Leptoll_Scaffold_8692_GENE_129_SigP	23	0	0	Uncharacterized NAD(FAD)-dependent dehydrogenases 123535:124674 reverse # pl:7.78 MW:42008
3	5way_CG_Leptoll_scaff_96_GENE_7_SigP	38	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
3	UBA_Leptoll_Scaffold_8027_GENE_50_SigP	41	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
3	UBA_Leptoll_Scaffold_8241_GENE_573_SigP	36	0	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
3	UBA_Leptoll_Scaffold_8062_GENE_173_SigP	33	1	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
3	UBA_Leptoll_Scaffold_8062_GENE_32_SigP	26	3	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
3	UBA_Leptoll_Scaffold_8062_GENE_38_SigP	45	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
3	UBA_Leptoll_Scaffold_8241_GENE_298_SigP	129	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
3	5way_CG_Leptoll_scaff_3_GENE_5_SigP	129	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
3	UBA_Leptoll_Scaffold_8062_GENE_236_SigP	39	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
3	UBA_Leptoll_Scaff_395_29_SigP	39	0	0	(-) # pl:9.79 MW:70443
3	UBA_Leptoll_Scaffold_8524_GENE_216_SigP	15	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548

3	5way_CG_Leptoll_scaff_42_GENE_34_SigP	25	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
3	5way_CG_Leptoll_scaff_98_GENE_16_SigP	21	0	0	hypothetical protein 1939943:1940773 reverse # pl:5.20 MW:28369
3	UBA_Leptoll_Scaffold_8135_GENE_71_SigP	22	3	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
3	5way_CG_Leptoll_scaff_3_GENE_58_SigP	94	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
3	5way_CG_Leptoll_scaff_2_GENE_49_SigP	21	1	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
3	UBA_Leptoll_Scaffold_7931_GENE_186_SigP	21	1	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
3	UBA_Leptoll_Scaffold_8692_GENE_69_SigP	17	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
3	UBA_Leptoll_Scaffold_8524_GENE_248_SigP	14	0	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
3	UBA_Leptoll_Scaffold_8241_GENE_114_SigP	142	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
3	5way_CG_Leptoll_scaff_32_GENE_25_SigP	142	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
3	5way_CG_Leptoll_scaff_21_GENE_20_SigP	13	0	0	hypothetical protein 728920:729237 forward # pl:9.18 MW:11040
3	UBA_Leptoll_Scaffold_7931_GENE_352_SigP	13	0	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
3	UBA_Leptoll_Scaffold_7931_GENE_97_SigP	17	0	0	Hypothetical protein 95055:95750 reverse # pl:8.82 MW:26173
3	5way_CG_Leptoll_scaff_297_GENE_5_SigP	17	0	0	hypothetical protein 2435933:2436628 forward # pl:8.82 MW:26173
3	5way_CG_Leptoll_scaff_8_GENE_20_SigP	10	0	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
3	5way_CG_Leptoll_scaff_86_GENE_7_SigP	23	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
3	5way_CG_Leptoll_scaff_8_GENE_58_SigP	5	0	0	cytochrome c-551 558486:558818 reverse # pl:10.02 MW:11872
3	5way_CG_Leptoll_scaff_25_GENE_47_SigP	6	0	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
3	UBA_Leptoll_Scaffold_8692_GENE_49_SigP	26	0	0	FOG 51650:53845 reverse # pl:9.71 MW:84153
3	5way_CG_Leptoll_scaff_43_GENE_14_SigP	27	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
3	UBA_Leptoll_Scaffold_8241_GENE_693_SigP	114	32	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
3	UBA_Leptoll_Scaffold_8241_GENE_295_SigP	7	0	0	Hypothetical protein 274121:274495 forward # pl:9.10 MW:13221
3	5way_CG_Leptoll_scaff_4_GENE_2_SigP	17	1	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
3	UBA_Leptoll_Scaffold_8135_GENE_81_SigP	13	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
3	UBA_Leptoll_Scaffold_8049_GENE_3_SigP	13	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
3	5way_CG_Leptoll_scaff_25_GENE_2_SigP	13	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
3	5way_CG_Leptoll_scaff_120_GENE_14_SigP	13	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
3	UBA_Leptoll_Scaffold_8241_GENE_253_SigP	18	1	0	Putative secretion protein (HlyD) 238386:239528 reverse # pl:7.85 MW:42147
3	UBA_LeptollIII_398_2_SigP	4	0	0	(-) # pl:10.81 MW:15675
3	UBA_LeptollIII_388_1_SigP	9	0	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
3	5way_CG_Leptoll_scaff_43_GENE_22_SigP	24	0	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
3	UBA_Leptoll_Scaffold_8027_GENE_31_SigP	11	2	0	Malate/lactate dehydrogenases 32641:33603 forward # pl:6.37 MW:34682
3	UBA_Leptoll_Scaffold_8241_GENE_522_SigP	15	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
3	5way_CG_Leptoll_scaff_27_GENE_13_SigP	29	0	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
3	5way_CG_Leptoll_scaff_42_GENE_27_SigP	9	0	0	hypothetical protein 1233635:1234360 forward # pl:9.49 MW:27054
3	UBA_Leptoll_Scaffold_8692_GENE_75_SigP	21	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
3	5way_CG_Leptoll_scaff_8_GENE_23_SigP	15	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
3	5way_CG_Leptoll_scaff_48_GENE_32_SigP	14	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
3	5way_CG_Leptoll_scaff_630_GENE_6_SigP	222	0	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
3	UBA_Leptoll_Scaffold_7931_GENE_101_SigP	7	0	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
3	5way_CG_Leptoll_scaff_46_GENE_4_SigP	7	0	0	hypothetical protein 1366599:1366910 forward # pl:9.43 MW:11021
3	UBA_LeptollIII_364_1_SigP	10	0	0	(-) # pl:10.85 MW:12350
3	5way_CG_Leptoll_scaff_271_GENE_3_SigP	19	0	0	flavoprotein oxidoreductase 2359237:2360376 reverse # pl:7.21 MW:42034
3	UBA_Leptoll_Scaffold_8049_GENE_55_SigP	6	0	0	Hypothetical protein 42266:42961 forward # pl:7.09 MW:26271
3	5way_CG_Leptoll_scaff_25_GENE_53_SigP	6	0	0	hypothetical protein 917425:918120 forward # pl:7.75 MW:26216
3	UBA_Leptoll_Scaffold_7931_GENE_87_SigP	25	0	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
3	5way_CG_Leptoll_scaff_66_GENE_21_SigP	25	0	0	hypothetical protein 1603957:1604319 reverse # pl:8.80 MW:13441
3	UBA_Leptoll_Scaffold_8027_GENE_57_SigP	27	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
3	5way_CG_Leptoll_scaff_96_GENE_14_SigP	27	0	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
3	5way_CG_Leptoll_scaff_44_GENE_17_SigP	9	2	0	malate dehydrogenase 1311610:1312572 forward # pl:6.14 MW:34712
3	UBA_Leptoll_Scaffold_7931_GENE_363_SigP	7	0	0	Peroxioredoxin 418582:419157 forward # pl:9.67 MW:21131
3	UBA_Leptoll_Scaffold_8692_GENE_133_SigP	3	0	0	Hypothetical protein 127591:128046 forward # pl:9.36 MW:16779
3	5way_CG_Leptoll_scaff_21_GENE_53_SigP	8	0	0	hypothetical protein 759903:760511 reverse # pl:9.47 MW:21658
3	UBA_Leptoll_Scaffold_8241_GENE_270_SigP	13	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
3	5way_CG_Leptoll_scaff_59_GENE_16_SigP	13	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
3	UBA_Leptoll_Scaffold_8241_GENE_256_SigP	13	0	0	Hypothetical protein 241268:241888 reverse # pl:10.64 MW:22967
3	5way_CG_Leptoll_scaff_175_GENE_9_SigP	16	0	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746
3	5way_CG_Leptoll_scaff_22_GENE_18_SigP	25	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
3	5way_CG_Leptoll_scaff_30_GENE_6_SigP	14	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
3	UBA_Leptoll_Scaffold_7931_GENE_98_SigP	14	0	0	Hypothetical protein 96019:96525 forward # pl:9.43 MW:19616
3	5way_CG_Leptoll_scaff_297_GENE_4_SigP	14	0	0	hypothetical protein 2435158:2435664 reverse # pl:9.43 MW:19616
3	UBA_Leptoll_Scaffold_7931_GENE_112_SigP	12	0	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
3	5way_CG_Leptoll_scaff_46_GENE_17_SigP	12	0	0	soluble cytochrome cB/cytochrome c553 1379572:1380243 reverse # pl:9.81 MW:24159
3	UBA_Leptoll_Scaffold_8241_GENE_175_SigP	3	0	0	Hypothetical protein 167847:168170 forward # pl:5.03 MW:11883
3	5way_CG_Leptoll_scaff_4_GENE_82_SigP	3	0	0	hypothetical protein 316894:317217 reverse # pl:5.03 MW:11881
3	UBA_Leptoll_Scaffold_7931_GENE_73_SigP	27	0	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
3	5way_CG_Leptoll_scaff_66_GENE_6_SigP	27	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pl:5.78 MW:23665
3	5way_CG_Leptoll_scaff_14_GENE_50_SigP	16	1	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
3	UBA_Leptoll_Scaffold_8692_GENE_5_SigP	38	0	0	Hypothetical protein 4993:5544 forward # pl:10.17 MW:19972

3	5way_CG_Leptoll_scaff_120_GENE_4_SigP	12	0	0	efflux protein, CzcB 1968652:1969776 reverse # pl:9.89 MW:41685
3	UBA_Leptoll_Scaffold_8241_GENE_610_SigP	11	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
3	UBA_Leptoll_Scaffold_8241_GENE_81_SigP	30	0	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
3	5way_CG_Leptoll_scaff_21_GENE_56_SigP	30	0	0	hypothetical protein 761096:761443 forward # pl:10.42 MW:12486
3	UBA_Leptoll_Scaffold_8049_GENE_47_SigP	7	0	0	Hypothetical protein 37752:38414 reverse # pl:9.93 MW:24100
3	5way_CG_Leptoll_scaff_30_GENE_22_SigP	19	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
3	UBA_Leptoll_Scaffold_8524_GENE_101_SigP	20	0	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
3	UBA_Leptoll_Scaffold_7931_GENE_281_SigP	7	0	0	Periplasmic protein involved in polysaccharide ex port 311387:312244 reverse # pl:9.91 MW:31407
3	UBA_Leptoll_Scaffold_7931_GENE_191_SigP	4	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
3	5way_CG_Leptoll_scaff_4_GENE_70_SigP	5	0	0	dehydrogenase 307021:307728 reverse # pl:8.81 MW:25390
3	5way_CG_Leptoll_scaff_25_GENE_41_SigP	6	0	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
3	Unass_bact_scaff_903_GENE_5_SigP	2	0	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
3	5way_CG_Leptoll_scaff_98_GENE_11_SigP	19	3	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
3	UBA_Leptoll_Scaffold_8241_GENE_298a_SigP	10	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pl:11.10 MW:25887
3	UBA_Leptoll_Scaffold_8241_GENE_524_SigP	7	0	0	Parvulin-like peptidyl-prolyl isomerase 502388:503257 reverse # pl:9.96 MW:32363
3	UBA_Leptoll_Scaffold_320_1_SigP	3	1	0	(-) # pl:4.92 MW:22809
3	5way_CG_Leptoll_scaff_41_GENE_29_SigP	5	0	0	bacterioferritin comigratory protein/peroxiredoxin 1204208:1204783 reverse # pl:9.67 MW:21373
3	UBA_Leptoll_Scaffold_7931_GENE_123_SigP	6	0	0	Cytochrome c 128461:129270 forward # pl:9.68 MW:29622
3	5way_CG_Leptoll_scaff_46_GENE_28_SigP	6	0	0	cytochrome c 1396147:1396956 forward # pl:9.68 MW:29622
3	5way_CG_Leptoll_scaff_7_GENE_28_SigP	6	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
3	5way_CG_Leptoll_scaff_59_GENE_28_SigP	10	0	0	hypothetical protein 1554663:1555283 forward # pl:10.76 MW:22906
3	5way_CG_Leptoll_scaff_287_GENE_4_SigP	3	0	0	hypothetical protein 2399359:2399979 reverse # pl:8.69 MW:22528
3	UBA_Leptoll_Scaffold_8241_GENE_126_SigP	3	0	0	Conserved hypothetical protein 123230:124063 forward # pl:6.25 MW:30990
3	UBA_Leptoll_Scaffold_8062_GENE_328_SigP	8	0	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
3	UBA_Leptoll_Scaffold_8027_GENE_49_SigP	4	1	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pl:9.05 MW:50054
3	5way_CG_Leptoll_scaff_6_GENE_46_SigP	17	0	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
3	UBA_Leptoll_Scaffold_8241_GENE_21_SigP	9	2	0	Putative phospholipid binding protein 18471:19037 reverse # pl:9.81 MW:20481
3	5way_CG_Leptoll_scaff_141_GENE_2_SigP	6	0	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
3	5way_CG_Leptoll_scaff_271_GENE_7_SigP	2	0	0	hypothetical protein 2363290:2363745 forward # pl:9.40 MW:16789
3	UBA_Leptoll_Scaffold_8524_GENE_165_SigP	10	0	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
3	5way_CG_Leptoll_scaff_3_GENE_6_SigP	9	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
3	UBA_Leptoll_Scaffold_7931_GENE_16_SigP	3	0	0	Hypothetical protein 12313:12933 reverse # pl:9.26 MW:23588
3	5way_CG_Leptoll_scaff_428_GENE_6_SigP	3	0	0	hypothetical protein 2557294:2557914 reverse # pl:9.26 MW:23588
3	5way_CG_Leptoll_scaff_4_GENE_7_SigP	5	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
3	UBA_Leptoll_Scaffold_7931_GENE_10_SigP	8	0	0	Putative protease S49 7025:7912 reverse # pl:9.84 MW:31652
3	5way_CG_Leptoll_scaff_274_GENE_2_SigP	8	0	0	signal peptidase 2368985:2369872 forward # pl:9.84 MW:31652
3	UBA_Leptoll_Scaffold_8524_GENE_98_SigP	7	0	0	undefined product 87262:87864 forward # pl:7.20 MW:22096
3	UBA_Leptoll_Scaffold_7931_GENE_372_SigP	2	0	1	Hypothetical protein 426824:427432 forward # pl:10.16 MW:21478
3	UBA_Leptoll_Scaffold_332_4_SigP	2	0	0	(-) # pl:8.60 MW:14958
3	UBA_Leptoll_Scaffold_8027_GENE_55_SigP	5	0	0	FOG 55616:56380 forward # pl:9.75 MW:29641
3	UBA_Leptoll_Scaffold_8062_GENE_31_SigP	3	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
3	UBA_Leptoll_Scaffold_7931_GENE_383_SigP	4	0	0	undefined product 441204:441656 forward # pl:7.12 MW:15956
3	5way_CG_Leptoll_scaff_41_GENE_9_SigP	4	0	0	hypothetical protein 1181714:1182166 reverse # pl:7.84 MW:15936
3	UBA_Leptoll_Scaffold_7931_GENE_133_SigP	4	0	0	Hypothetical protein 138630:139502 forward # pl:9.94 MW:31918
3	5way_CG_Leptoll_scaff_186_GENE_8_SigP	4	0	0	hypothetical protein 2199191:2200063 forward # pl:9.94 MW:31918
3	5way_CG_Leptoll_scaff_68_GENE_16_SigP	9	0	0	hypothetical protein 1654556:1655425 forward # pl:9.89 MW:31842
3	UBA_Leptoll_Scaffold_8135_GENE_5_SigP	5	0	0	FOG 3195:4136 forward # pl:9.10 MW:34971
3	UBA_Leptoll_Scaffold_391_4_SigP	10	0	0	(-) # pl:10.15 MW:22759
3	UBA_Leptoll_Scaffold_395_59_SigP	3	0	0	(-) # pl:9.43 MW:19080
3	5way_CG_Leptoll_scaff_42_GENE_24_SigP	8	0	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
3	UBA_Leptoll_Scaffold_8241_GENE_79_SigP	3	0	0	Hypothetical protein 78556:79164 reverse # pl:9.58 MW:21627
3	UBA_Leptoll_Scaffold_8241_GENE_570_SigP	11	0	0	Outer membrane protein 555547:557019 forward # pl:9.35 MW:54952
3	5way_CG_Leptoll_scaff_27_GENE_41_SigP	7	0	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
3	5way_CG_Leptoll_scaff_32_GENE_52_SigP	6	0	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
3	5way_CG_Leptoll_scaff_2_GENE_54_SigP	2	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
3	5way_CG_Leptoll_scaff_25_GENE_46_SigP	4	0	0	hypothetical protein 912913:913575 reverse # pl:10.04 MW:23895
3	UBA_Leptoll_Scaffold_8049_GENE_42a_SigP	5	0	0	Hypothetical protein 34331:34687 reverse # pl:9.86 MW:13687
3	5way_CG_Leptoll_scaff_32_GENE_15_SigP	2	0	0	hypothetical protein 1087013:1087738 forward # pl:7.91 MW:25653
3	5way_CG_Leptoll_scaff_22_GENE_33_SigP	13	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
3	5way_CG_Leptoll_scaff_22_GENE_28_SigP	2	0	0	hypothetical protein 794184:794561 reverse # pl:10.83 MW:14375
3	UBA_Leptoll_Scaffold_8062_GENE_268_SigP	3	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
3	UBA_Leptoll_Scaffold_395_61_SigP	3	0	0	(-) # pl:9.73 MW:17490
3	5way_CG_Leptoll_scaff_265_GENE_14_SigP	3	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
3	5way_CG_Leptoll_scaff_96_GENE_6_SigP	4	1	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
3	UBA_Leptoll_Scaffold_8241_GENE_630_SigP	3	0	0	Kef-type K+ transport systems, predicted NAD-bind ing component 612785:613828 forward # pl:5.78 MW:37736
3	UBA_Leptoll_Scaffold_328_11_SigP	7	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
3	UBA_Leptoll_Scaffold_394_71_SigP	2	0	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
3	5way_CG_Leptoll_scaff_689_GENE_3_SigP	2	0	0	cytochrome c551 2741290:2741619 forward # pl:9.20 MW:11513
3	5way_CG_Leptoll_scaff_32_GENE_24_SigP	19	0	0	hypothetical protein 1095187:1095858 forward # pl:4.69 MW:23690

3	UBA_Leptoll_Scaffold_7931_GENE_377_SigP	3	0	0	undefined product 432399:433847 forward # pl:4.30 MW:52721
3	5way_CG_Leptoll_scaff_41_GENE_16_SigP	3	0	0	hypothetical protein 1189524:1190972 reverse # pl:4.22 MW:52723
3	UBA_LeptollI_373_5_SigP	3	0	0	(-) # pl:9.91 MW:21663
3	5way_CG_Leptoll_scaff_167_GENE_7_SigP	12	0	0	hypothetical protein 2094828:2096972 reverse # pl:8.62 MW:78226
3	UBA_Leptoll_Scaffold_8692_GENE_45_SigP	6	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
3	5way_CG_Leptoll_scaff_30_GENE_28_SigP	6	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
3	UBA_Leptoll_Scaffold_8241_GENE_690_SigP	15	0	0	Hypothetical protein 681251:682891 forward # pl:4.70 MW:59054
3	5way_CG_Leptoll_scaff_13_GENE_57_SigP	6	0	0	hypothetical protein 633696:634211 reverse # pl:9.45 MW:19141
3	UBA_LeptollII_361_11_SigP	4	0	0	(-) # pl:9.66 MW:26334
3	5way_CG_Leptoll_scaff_167_GENE_10_SigP	8	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
3	UBA_LeptollII_390_49_SigP	4	1	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
3	UBA_Leptoll_Scaffold_8049_GENE_109_SigP	2	0	0	Hypothetical protein 103611:104141 forward # pl:9.51 MW:19740
3	5way_CG_Leptoll_scaff_23_GENE_41_SigP	2	0	0	hypothetical protein 865371:865901 forward # pl:9.51 MW:19771
3	UBA_LeptollII_394_70_SigP	2	0	0	(-) # pl:10.49 MW:18094
3	UBA_Leptoll_Scaffold_7931_GENE_181_SigP	7	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pl:10.33 MW:77941
3	5way_CG_Leptoll_scaff_8_GENE_36_SigP	6	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
3	5way_CG_Leptoll_scaff_94_GENE_5_SigP	18	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
3	UBA_LeptollII_317_6_SigP	4	0	0	(C - Pyruvate:ferredoxin oxidoreductase and related 2-oxoacid:ferredoxin oxidoreductases, gamma subunit) # pl:8.83 MW:25186
3	UBA_Leptoll_Scaffold_8027_GENE_48a_SigP	3	0	0	Hypothetical protein 47726:48559 forward # pl:11.68 MW:30762
3	5way_CG_Leptoll_scaff_98_GENE_10_SigP	2	0	0	hypothetical protein 1933888:1934532 forward # pl:9.80 MW:24317
3	5way_CG_Leptoll_scaff_183_GENE_6_SigP	2	0	0	hypothetical protein 2174071:2174934 forward # pl:9.26 MW:31876
3	UBA_Leptoll_Scaffold_8062_GENE_26_SigP	2	0	0	Hypothetical protein 27591:28298 forward # pl:11.34 MW:26068
3	UBA_LeptollII_334_5_SigP	3	0	0	(-) # pl:10.11 MW:31964
3	5way_CG_Leptoll_scaff_43_GENE_19_SigP	8	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
3	UBA_Leptoll_Scaffold_8049_GENE_42_SigP	3	0	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108
3	UBA_LeptollII_351_1_SigP	2	0	0	(-) # pl:9.75 MW:19719
3	UBA_LeptollII_336_16_SigP	2	0	0	(-) # pl:9.75 MW:19719
3	UBA_Leptoll_Scaffold_8241_GENE_196_SigP	4	0	0	Putative methyl-accepting chemotaxis protein 183744:185417 reverse # pl:8.32 MW:61190
3	5way_CG_Leptoll_scaff_4_GENE_62_SigP	4	0	0	methyl-accepting chemotaxis protein 301193:302866 forward # pl:8.95 MW:60984
3	UBA_Leptoll_Scaffold_7931_GENE_311_SigP	11	0	0	FOG 348657:351887 forward # pl:9.10 MW:118365
3	5way_CG_Leptoll_scaff_96_GENE_5_SigP	2	0	0	hypothetical protein 1906272:1907108 forward # pl:11.31 MW:30636
3	UBA_Leptoll_Scaffold_7931_GENE_128_SigP	3	0	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
3	5way_CG_Leptoll_scaff_186_GENE_4_SigP	3	0	0	general secretion pathway GspD 2193892:2195559 forward # pl:9.57 MW:59267
3	UBA_Leptoll_Scaffold_8241_GENE_248_SigP	2	0	0	Hypothetical protein 232386:233240 reverse # pl:9.32 MW:32282
3	5way_CG_Leptoll_scaff_53_GENE_26_SigP	4	0	0	hypothetical protein 1495267:1496724 reverse # pl:10.11 MW:49724
3	UBA_Leptoll_Scaffold_8524_GENE_102_SigP	3	0	0	Multidrug resistance efflux pump 91850:92809 forward # pl:9.81 MW:35490
3	UBA_Leptoll_Scaffold_8241_GENE_337_SigP	5	0	0	Peptidase M23/M37 family 319746:320636 reverse # pl:10.67 MW:32300
3	Unass_bact_scaff_957_GENE_2_SigP	2	0	0	- # Function: Hypothetical protein # pl:6.52 MW:21492
3	UBA_LeptollII_333_2_SigP	2	0	0	(-) # pl:6.52 MW:21492
3	5way_CG_Leptoll_scaff_2_GENE_44_SigP	5	0	0	soluble lytic transglycosylase 48347:50407 reverse # pl:10.33 MW:77488
3	5way_CG_Leptoll_scaff_96_GENE_12_SigP	3	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
3	5way_CG_Leptoll_scaff_13_GENE_36_SigP	2	0	0	potassium uptake protein 614251:615294 reverse # pl:5.78 MW:37718
3	UBA_Leptoll_Scaffold_8692_GENE_161_SigP	3	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
3	UBA_Leptoll_Scaffold_8062_GENE_84_SigP	2	0	0	Hypothetical protein 76311:77066 forward # pl:5.93 MW:28749
3	5way_CG_Leptoll_scaff_62_GENE_5_SigP	3	0	0	hypothetical protein 1560383:1561324 forward # pl:8.96 MW:35059
3	UBA_Leptoll_Scaffold_7931_GENE_122_SigP	4	0	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
3	5way_CG_Leptoll_scaff_46_GENE_27_SigP	4	0	0	cytochrome c 1395273:1396082 forward # pl:9.97 MW:29736
3	UBA_Leptoll_Scaffold_8692_GENE_147_SigP	3	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
3	gpl_scaff_198_GENE_2_SigP	3	0	0	# Gene_name: FixC # Function: Dehydrogenases (flavoproteins) # e-36 # pl:6.27 MW:44603
3	5way_CG_Leptoll_scaff_22_GENE_30_SigP	4	1	0	cellulase 797157:798257 reverse # pl:9.98 MW:41939
3	5way_CG_Leptoll_scaff_21_GENE_25_SigP	3	0	0	hypothetical protein 735291:736745 reverse # pl:7.80 MW:53899
3	UBA_Leptoll_Scaffold_7931_GENE_1_SigP	4	0	0	Membrane proteins related to metalloendopeptidase s 348:1544 reverse # pl:10.10 MW:46222
3	5way_CG_Leptoll_scaff_274_GENE_10_SigP	4	0	0	hypothetical protein 2375353:2376549 forward # pl:10.10 MW:46222
3	UBA_Leptoll_Scaffold_8062_GENE_227_SigP	3	0	0	3-oxoacyl-[acyl-carrier-protein] synthase III 235397:236422 reverse # pl:5.76 MW:36418
3	UBA_LeptollII_395_20_SigP	3	0	0	(I - 3-oxoacyl-[acyl-carrier-protein] synthase III) # pl:5.76 MW:35987
3	UBA_LeptollII_399_92_SigP	2	0	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
3	UBA_Leptoll_Scaffold_8241_GENE_149_SigP	36	0	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
3	UBA_Leptoll_Scaffold_7931_GENE_32_SigP	2	0	0	Hypothetical protein 27920:29092 reverse # pl:9.33 MW:43431
3	UBA_LeptollII_390_44_SigP	28	0	0	(-) # pl:7.72 MW:17434
3	UBA_LeptollII_307_1_SigP	28	0	0	(-) # pl:9.55 MW:17070
3	UBA_Leptoll_Scaffold_8049_GENE_37_SigP	2	0	0	undefined product 28961:29926 forward # pl:8.99 MW:35904
3	5way_CG_Leptoll_scaff_25_GENE_36_SigP	2	0	0	hypothetical protein 905024:905989 forward # pl:8.99 MW:35890
3	UBA_Leptoll_Scaffold_7931_GENE_347_SigP	2	0	0	Hypothetical protein 402145:403218 reverse # pl:8.65 MW:39325
3	5way_CG_Leptoll_scaff_6_GENE_45_SigP	2	0	0	efflux transporter 376998:377990 reverse # pl:9.94 MW:36577
3	fer2_scaff_1_GENE_61_SigP	3	0	0	# Gene_name: FadB # Function: 3-Hydroxyacyl-CoA dehydrogenase # e-119 # pl:5.27 MW:71613
3	UBA_LeptollII_361_10_SigP	2	0	0	(-) # pl:9.57 MW:54911
3	5way_CG_Leptoll_scaff_48_GENE_30_SigP	3	0	0	peptidyl-prolyl cis-trans isomerase 1425137:1426006 forward # pl:9.84 MW:32345
3	UBA_Leptoll_Scaffold_8524_GENE_127_SigP	3	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pl:9.38 MW:87643
3	5way_CG_Leptoll_scaff_6_GENE_20_SigP	3	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637

3	UBA_Leptoll_Scaffold_8241_GENE_103_SigP	2	0	0	undefined product 104291:105808 reverse # pl:4.37 MW:54784
3	5way_CG_Leptoll_scaff_32_GENE_36_SigP	2	0	0	hypothetical protein 1104400:1105929 forward # pl:4.32 MW:55077
3	UBA_Leptoll_Scaffold_8062_GENE_264_SigP	2	0	0	undefined product 270540:271802 forward # pl:5.82 MW:46323
3	UBA_Leptoll_395_57_SigP	2	0	0	(-) # pl:5.82 MW:46323
3	UBA_Leptoll_Scaffold_8049_GENE_61_SigP	3	0	0	Carbamoylphosphate synthase large subunit (split gene in MJ) 47956:51198 forward # pl:5.25 MW:117734
3	5way_CG_Leptoll_scaff_25_GENE_59_SigP	3	0	0	carbamoyl phosphate synthetase, large subunit 923120:926362 forward # pl:5.23 MW:118004
3	UBA_Leptoll_394_18_SigP	3	0	0	(C - Cytochrome c) # pl:9.67 MW:28371
3	fer1_scaff_116_GENE_18_SigP	2	0	0	# Gene_name: GlpA # Function: Glycerol-3-phosphate dehydrogenase # e-87 # pl:5.35 MW:46823
3	UBA_Leptoll_Scaffold_8062_GENE_245_SigP	3	0	0	Hypothetical protein 253388:254131 forward # pl:4.55 MW:26029
3	UBA_Leptoll_395_38_SigP	3	0	0	(-) # pl:4.55 MW:26029
3	5way_CG_Leptoll_scaff_27_GENE_22_SigP	3	0	0	hypothetical protein 997984:998727 forward # pl:4.75 MW:25979
3	5way_CG_Leptoll_scaff_173_GENE_9_SigP	3	0	0	hypothetical protein 2117121:2117786 forward # pl:7.18 MW:21946
3	UBA_Leptoll_Scaffold_7931_GENE_176_SigP	2	0	0	Predicted HD superfamily hydrolase 187397:188962 reverse # pl:6.12 MW:58581
3	5way_CG_Leptoll_scaff_3_GENE_47_SigP	3	0	0	peptidase, M23/M37 family 183484:184374 reverse # pl:10.45 MW:32357
3	UBA_Leptoll_Scaffold_8241_GENE_566_SigP	2	0	0	Cation/multidrug efflux pump 548557:551730 forward # pl:8.44 MW:116594
3	5way_CG_Leptoll_scaff_43_GENE_15_SigP	2	0	0	cation efflux transport 1271055:1274228 forward # pl:7.83 MW:116596
3	UBA_Leptoll_Scaffold_8062_GENE_198_SigP	2	0	0	Methyl-accepting chemotaxis protein 207853:209586 forward # pl:7.22 MW:63761
3	5way_CG_Leptoll_scaff_135_GENE_8_SigP	2	0	0	methyl-accepting chemotaxis protein 2005301:2007034 forward # pl:6.87 MW:63854
3	Unass_arch_scaff_525_GENE_5_SigP	2	0	0	- # Function: Hypothetical protein # pl:8.03 MW:70772
3	UBA_Leptoll_Scaffold_8241_GENE_469_SigP	4	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
3	UBA_Leptoll_Scaffold_7931_GENE_114_SigP	5	0	0	undefined product 115221:117488 forward # pl:9.88 MW:83301
3	5way_CG_Leptoll_scaff_46_GENE_19_SigP	5	0	0	cellulose synthase, subunit B 1382907:1385174 forward # pl:9.88 MW:83301
3	UBA_Leptoll_396_5_SigP	2	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
3	UBA_Leptoll_380_38_SigP	2	0	0	(T - Signal transduction histidine kinase regulating C4-dicarboxylate transport system) # pl:6.43 MW:77185
3	fer2_scaff_83_GENE_8_SigP	2	0	0	# Gene_name: PotE # Function: Amino acid transporters # e-105 # pl:9.80 MW:48814

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB Muck GSII Sample Set - Run 1

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
1	UBA_LeptolI_Scaffold_8524_GENE_128_SigP	175	12	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
1	5way_CG_LeptolI_scaff_6_GENE_19_SigP	259	12	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
1	5way_CG_LeptolI_scaff_3_GENE_4_SigP	272	6	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
1	UBA_LeptolI_Scaffold_8241_GENE_297_SigP	270	3	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
1	5way_CG_LeptolI_scaff_23_GENE_15_SigP	77	26	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
1	5way_CG_LeptolI_scaff_45_GENE_15_SigP	255	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
1	5way_CG_LeptolI_scaff_141_GENE_2_SigP	24	1	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
1	UBA_LeptolI_Scaffold_8049_GENE_366_SigP	250	0	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
1	UBA_LeptolI_Scaffold_8135_GENE_9_SigP	150	19	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
1	5way_CG_LeptolI_scaff_62_GENE_10_SigP	164	19	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
1	UBA_LeptolI_Scaffold_8524_GENE_249_SigP	126	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
1	UBA_LeptolI_Scaffold_8062_GENE_53_SigP	54	1	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
1	UBA_LeptolIII_398_2_SigP	14	0	0	(-) # pl:10.81 MW:15675
1	5way_CG_LeptolI_scaff_141_GENE_3_SigP	124	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
1	5way_CG_LeptolI_scaff_62_GENE_1_SigP	15	3	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
1	UBA_LeptolI_Scaffold_8524_GENE_248_SigP	14	1	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
1	5way_CG_LeptolI_scaff_4_GENE_16_SigP	85	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
1	UBA_LeptolI_Scaffold_8049_GENE_83_SigP	70	26	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
1	UBA_LeptolI_Scaffold_8062_GENE_34_SigP	75	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
1	5way_CG_LeptolI_scaff_41_GENE_27_SigP	52	1	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
1	5way_CG_LeptolI_scaff_374_GENE_7_SigP	74	12	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
1	UBA_LeptolI_Scaffold_8241_GENE_153_SigP	74	12	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
1	5way_CG_LeptolI_scaff_98_GENE_16_SigP	55	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
1	5way_CG_LeptolI_scaff_8_GENE_23_SigP	20	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
1	UBA_LeptolI_Scaffold_8027_GENE_50_SigP	39	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
1	5way_CG_LeptolI_scaff_98_GENE_12_SigP	80	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
1	5way_CG_LeptolI_scaff_8_GENE_36_SigP	10	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
1	5way_CG_LeptolI_scaff_81_GENE_24_SigP	49	1	0	(-) # pl:10.05 MW:15038
1	UBA_LeptolIII_314_4_SigP	49	1	0	(-) # pl:10.05 MW:15038
1	UBA_LeptolI_Scaffold_8241_GENE_349_SigP	162	0	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
1	UBA_LeptolI_Scaffold_8241_GENE_56_SigP	57	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
1	5way_CG_LeptolI_scaff_21_GENE_26_SigP	57	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
1	5way_CG_LeptolI_scaff_46_GENE_4_SigP	3	1	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
1	UBA_LeptolI_Scaffold_7931_GENE_101_SigP	3	1	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
1	5way_CG_LeptolI_scaff_32_GENE_19_SigP	92	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114
1	UBA_LeptolI_Scaffold_8241_GENE_238_SigP	65	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
1	UBA_LeptolI_Scaffold_8524_GENE_201_SigP	16	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
1	Unass_bact_scaff_1131_GENE_3_SigP	28	0	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
1	UBA_LeptolIII_388_1_SigP	23	1	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
1	UBA_LeptolIII_398_122_SigP	9	3	0	(-) # pl:9.92 MW:13689
1	UBA_LeptolI_Scaffold_7931_GENE_365_SigP	40	1	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
1	UBA_LeptolIII_361_11_SigP	33	0	0	(-) # pl:9.66 MW:26334
1	UBA_LeptolI_Scaffold_8241_GENE_348_SigP	84	1	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
1	5way_CG_LeptolI_scaff_175_GENE_9_SigP	8	1	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746
1	UBA_LeptolI_Scaffold_8241_GENE_121_SigP	77	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
1	5way_CG_LeptolI_scaff_511_GENE_2_SigP	44	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
1	5way_CG_LeptolI_scaff_80_GENE_22_SigP	29	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
1	UBA_LeptolI_Scaffold_8049_GENE_192_SigP	64	0	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
1	UBA_LeptolIII_399_92_SigP	23	3	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
1	UBA_LeptolI_Scaffold_7931_GENE_87_SigP	27	0	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
1	5way_CG_LeptolI_scaff_66_GENE_21_SigP	27	0	0	hypothetical protein 1603957:1604319 reverse # pl:8.80 MW:13441
1	5way_CG_LeptolI_scaff_43_GENE_14_SigP	32	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
1	UBA_LeptolI_Scaffold_8062_GENE_38_SigP	40	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
1	UBA_LeptolI_Scaffold_8241_GENE_298a_SigP	12	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pl:11.10 MW:25887
1	UBA_LeptolI_Scaffold_8241_GENE_565_SigP	29	0	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
1	5way_CG_LeptolI_scaff_96_GENE_14_SigP	37	0	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
1	5way_CG_LeptolI_scaff_3_GENE_58_SigP	98	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
1	5way_CG_LeptolI_scaff_43_GENE_22_SigP	20	1	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
1	5way_CG_LeptolI_scaff_46_GENE_16_SigP	16	2	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
1	UBA_LeptolI_Scaffold_7931_GENE_111_SigP	16	2	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
1	5way_CG_LeptolI_scaff_98_GENE_11_SigP	19	0	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
1	5way_CG_LeptolI_scaff_333_GENE_9_SigP	8	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
1	5way_CG_LeptolI_scaff_21_GENE_56_SigP	23	1	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
1	UBA_LeptolI_Scaffold_8241_GENE_81_SigP	23	1	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456

1	UBA_LeptolI_Scaffold_8241_GENE_114_SigP	150	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
1	5way_CG_LeptolI_scaff_32_GENE_25_SigP	150	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
1	UBA_LeptolIII_391_4_SigP	14	0	0	(-) # pl:10.15 MW:22759
1	5way_CG_LeptolI_scaff_96_GENE_7_SigP	37	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
1	UBA_LeptolIII_364_1_SigP	21	0	0	(-) # pl:10.85 MW:12350
1	5way_CG_LeptolI_scaff_86_GENE_7_SigP	15	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
1	5way_CG_LeptolI_scaff_2_GENE_49_SigP	16	2	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
1	UBA_LeptolI_Scaffold_7931_GENE_186_SigP	16	2	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
1	UBA_LeptolI_Scaffold_8524_GENE_197_SigP	12	0	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
1	UBA_LeptolI_Scaffold_8692_GENE_69_SigP	32	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
1	5way_CG_LeptolI_scaff_30_GENE_6_SigP	31	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
1	UBA_LeptolI_Scaffold_8524_GENE_269_SigP	9	1	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589
1	5way_CG_LeptolI_scaff_27_GENE_13_SigP	32	0	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
1	5way_CG_LeptolI_scaff_25_GENE_41_SigP	12	0	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
1	5way_CG_LeptolI_scaff_59_GENE_16_SigP	20	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
1	UBA_LeptolIII_391_6_SigP	2	0	0	(-) # pl:9.46 MW:11977
1	5way_CG_LeptolI_scaff_42_GENE_33_SigP	33	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
1	UBA_LeptolI_Scaffold_8241_GENE_573_SigP	17	0	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
1	UBA_LeptolI_Scaffold_8241_GENE_270_SigP	14	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
1	UBA_LeptolI_Scaffold_7931_GENE_97_SigP	6	0	0	Hypothetical protein 95055:95750 reverse # pl:8.82 MW:26173
1	5way_CG_LeptolI_scaff_297_GENE_5_SigP	6	0	0	hypothetical protein 2435933:2436628 forward # pl:8.82 MW:26173
1	UBA_LeptolI_Scaffold_8049_GENE_109_SigP	6	0	0	Hypothetical protein 103611:104141 forward # pl:9.51 MW:19740
1	5way_CG_LeptolI_scaff_23_GENE_41_SigP	6	0	0	hypothetical protein 865371:865901 forward # pl:9.51 MW:19771
1	Unass_bact_scaff_920_GENE_3_SigP	10	1	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
1	UBA_LeptolI_Scaffold_8049_GENE_209_SigP	10	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
1	UBA_LeptolI_Scaffold_8062_GENE_173_SigP	12	1	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
1	UBA_LeptolI_Scaffold_8135_GENE_71_SigP	14	3	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
1	UBA_LeptolI_Scaffold_8241_GENE_298_SigP	154	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
1	5way_CG_LeptolI_scaff_3_GENE_5_SigP	154	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
1	5way_CG_LeptolI_scaff_14_GENE_50_SigP	13	1	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
1	5way_CG_LeptolI_scaff_3_GENE_6_SigP	10	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
1	UBA_LeptolI_Scaffold_7931_GENE_112_SigP	13	0	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
1	5way_CG_LeptolI_scaff_46_GENE_17_SigP	13	0	0	soluble cytochrome cB/cytochrome c553 1379572:1380243 reverse # pl:9.81 MW:24159
1	5way_CG_LeptolI_scaff_13_GENE_57_SigP	6	0	0	hypothetical protein 633696:634211 reverse # pl:9.45 MW:19141
1	UBA_LeptolI_Scaffold_8062_GENE_236_SigP	27	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
1	UBA_LeptolIII_395_29_SigP	27	0	0	(-) # pl:9.79 MW:70443
1	5way_CG_LeptolI_scaff_21_GENE_20_SigP	21	0	0	hypothetical protein 728920:729237 forward # pl:9.18 MW:11040
1	UBA_LeptolI_Scaffold_8027_GENE_57_SigP	35	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
1	UBA_LeptolIII_394_29_SigP	11	1	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
1	5way_CG_LeptolI_scaff_630_GENE_6_SigP	320	0	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
1	5way_CG_LeptolI_scaff_42_GENE_34_SigP	16	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
1	5way_CG_LeptolI_scaff_21_GENE_53_SigP	12	0	0	hypothetical protein 759903:760511 reverse # pl:9.47 MW:21658
1	5way_CG_LeptolI_scaff_376_GENE_6_SigP	4	1	0	hypothetical protein 2514094:2514462 reverse # pl:9.68 MW:13844
1	5way_CG_LeptolI_scaff_297_GENE_7_SigP	2	1	0	undefined product 93000:93377 forward # pl:6.24 MW:14033
1	UBA_LeptolI_Scaffold_7931_GENE_95_SigP	2	1	0	undefined product 93000:93377 forward # pl:6.24 MW:14033
1	UBA_LeptolI_Scaffold_8241_GENE_693_SigP	107	32	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
1	UBA_LeptolI_Scaffold_7931_GENE_338_SigP	10	0	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
1	UBA_LeptolIII_390_49_SigP	15	3	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
1	UBA_LeptolI_Scaffold_8049_GENE_42a_SigP	10	0	0	Hypothetical protein 34331:34687 reverse # pl:9.86 MW:13687
1	UBA_LeptolIII_399_123_SigP	5	0	0	(-) # pl:9.93 MW:19208
1	UBA_LeptolI_Scaffold_7931_GENE_98_SigP	15	0	0	Hypothetical protein 96019:96525 forward # pl:9.43 MW:19616
1	5way_CG_LeptolI_scaff_297_GENE_4_SigP	15	0	0	hypothetical protein 2435158:2435664 reverse # pl:9.43 MW:19616
1	Unass_bact_scaff_1002_GENE_2_SigP	3	1	0	- # Function: Hypothetical protein # pl:4.82 MW:20989
1	UBA_LeptolIII_376_11_SigP	6	0	0	(-) # pl:7.90 MW:21402
1	UBA_LeptolIII_373_5_SigP	11	0	0	(-) # pl:9.91 MW:21663
1	5way_CG_LeptolI_scaff_22_GENE_18_SigP	24	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
1	5way_CG_LeptolI_scaff_98_GENE_10_SigP	7	0	0	hypothetical protein 1933888:1934532 forward # pl:9.80 MW:24317
1	UBA_LeptolI_Scaffold_8062_GENE_31_SigP	6	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
1	5way_CG_LeptolI_scaff_25_GENE_47_SigP	4	1	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
1	UBA_LeptolI_Scaffold_8062_GENE_328_SigP	5	1	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
1	UBA_LeptolIII_394_70_SigP	13	0	0	(-) # pl:10.49 MW:18094
1	UBA_LeptolI_Scaffold_8049_GENE_48_SigP	4	0	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
1	UBA_LeptolI_Scaffold_8692_GENE_5_SigP	11	0	0	Hypothetical protein 4993:5544 forward # pl:10.17 MW:19972
1	UBA_LeptolIII_397_16_SigP	8	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:9.97 MW:35837
1	UBA_LeptolIII_399_159_SigP	15	1	0	(-) # pl:9.62 MW:23985
1	UBA_LeptolI_Scaffold_8241_GENE_32_SigP	14	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194
1	5way_CG_LeptolI_scaff_8_GENE_20_SigP	11	0	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
1	UBA_LeptolI_Scaffold_8524_GENE_235_SigP	13	1	0	Cytochrome c551/c552 219925:220257 reverse # pl:9.89 MW:11806
1	UBA_LeptolI_Scaffold_7931_GENE_352_SigP	4	0	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176

1	UBA_LeptolI_Scaffold_8241_GENE_295_SigP	7	0	0	Hypothetical protein 274121:274495 forward # pl:9.10 MW:13221
1	5way_CG_LeptolI_scaff_94_GENE_5_SigP	7	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
1	UBA_LeptolI_Scaffold_7931_GENE_191_SigP	8	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
1	5way_CG_LeptolI_scaff_8_GENE_58_SigP	17	1	0	cytochrome c-551 558486:558818 reverse # pl:10.02 MW:11872
1	5way_CG_LeptolI_scaff_43_GENE_19_SigP	18	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
1	UBA_LeptolI_Scaffold_8062_GENE_32_SigP	13	0	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
1	Unass_bact_scaff_903_GENE_5_SigP	2	0	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
1	UBA_LeptolI_399_60_SigP	9	0	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
1	5way_CG_LeptolI_scaff_120_GENE_4_SigP	9	0	0	efflux protein, CzcB 1968652:1969776 reverse # pl:9.89 MW:41685
1	UBA_LeptolI_388_19_SigP	3	0	0	(-) # pl:9.71 MW:22830
1	5way_CG_LeptolI_scaff_4_GENE_2_SigP	9	1	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
1	UBA_LeptolI_Scaffold_8692_GENE_161_SigP	10	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
1	UBA_LeptolI_382_13_SigP	10	0	0	(-) # pl:9.79 MW:36778
1	UBA_LeptolI_Scaffold_7931_GENE_349_SigP	29	0	0	Hypothetical protein 403648:404268 reverse # pl:6.14 MW:22293
1	5way_CG_LeptolI_scaff_86_GENE_19_SigP	29	0	0	hypothetical protein 1861083:1861703 reverse # pl:6.14 MW:22162
1	UBA_LeptolI_Scaffold_8241_GENE_175_SigP	2	0	0	Hypothetical protein 167847:168170 forward # pl:5.03 MW:11883
1	5way_CG_LeptolI_scaff_4_GENE_82_SigP	2	0	0	hypothetical protein 316894:317217 reverse # pl:5.03 MW:11881
1	UBA_LeptolI_397_15_SigP	3	0	0	(-) # pl:9.26 MW:29303
1	UBA_LeptolI_Scaffold_7931_GENE_73_SigP	9	0	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
1	5way_CG_LeptolI_scaff_66_GENE_6_SigP	9	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pl:5.78 MW:23665
1	UBA_LeptolI_361_10_SigP	10	0	0	(-) # pl:9.57 MW:54911
1	5way_CG_LeptolI_scaff_42_GENE_27_SigP	2	0	0	hypothetical protein 1233635:1234360 forward # pl:9.49 MW:27054
1	Unass_bact_scaff_1043_GENE_3_SigP	4	3	0	- # Function: Hypothetical protein # pl:9.28 MW:17946
1	5way_CG_LeptolI_scaff_473_GENE_6_SigP	14	0	0	hypothetical protein 2604173:2604670 reverse # pl:10.24 MW:18719
1	5way_CG_LeptolI_scaff_25_GENE_46_SigP	4	0	0	hypothetical protein 912913:913575 reverse # pl:10.04 MW:23895
1	UBA_LeptolI_398_147_SigP	5	0	0	(-) # pl:4.21 MW:48475
1	UBA_LeptolI_351_1_SigP	4	0	0	(-) # pl:9.75 MW:19719
1	UBA_LeptolI_336_16_SigP	4	0	0	(-) # pl:9.75 MW:19719
1	5way_CG_LeptolI_scaff_30_GENE_22_SigP	15	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
1	UBA_LeptolI_Scaffold_8692_GENE_49_SigP	15	0	0	FOG 51650:53845 reverse # pl:9.71 MW:84153
1	5way_CG_LeptolI_scaff_271_GENE_3_SigP	6	0	0	flavoprotein oxidoreductase 2359237:2360376 reverse # pl:7.21 MW:42034
1	UBA_LeptolI_Scaffold_8692_GENE_133_SigP	7	0	0	Hypothetical protein 127591:128046 forward # pl:9.36 MW:16779
1	5way_CG_LeptolI_scaff_271_GENE_7_SigP	7	0	0	hypothetical protein 2363290:2363745 forward # pl:9.40 MW:16789
1	UBA_LeptolI_328_11_SigP	5	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
1	fer2_scaff_37_GENE_35_SigP	2	0	0	- # Function: Hypothetical protein # pl:9.77 MW:7981
1	5way_CG_LeptolI_scaff_32_GENE_52_SigP	8	1	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
1	UBA_LeptolI_Scaffold_8241_GENE_570_SigP	16	0	0	Outer membrane protein 555547:557019 forward # pl:9.35 MW:54952
1	UBA_LeptolI_Scaffold_8524_GENE_216_SigP	7	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
1	UBA_LeptolI_394_10_SigP	2	1	0	(-) # pl:11.06 MW:18504
1	UBA_LeptolI_Scaffold_8241_GENE_253_SigP	8	1	0	Putative secretion protein (HlyD) 238386:239528 reverse # pl:7.85 MW:42147
1	UBA_LeptolI_Scaffold_7931_GENE_16_SigP	3	0	0	Hypothetical protein 12313:12933 reverse # pl:9.26 MW:23588
1	5way_CG_LeptolI_scaff_428_GENE_6_SigP	3	0	0	hypothetical protein 2557294:2557914 reverse # pl:9.26 MW:23588
1	UBA_LeptolI_Scaffold_7931_GENE_123_SigP	3	0	0	Cytochrome c 128461:129270 forward # pl:9.68 MW:29622
1	5way_CG_LeptolI_scaff_46_GENE_28_SigP	3	0	0	cytochrome c 1396147:1396956 forward # pl:9.68 MW:29622
1	5way_CG_LeptolI_scaff_167_GENE_7_SigP	13	0	0	hypothetical protein 2094828:2096972 reverse # pl:8.62 MW:78226
1	UBA_LeptolI_394_36_SigP	5	0	0	(-) # pl:6.54 MW:55063
1	5way_CG_LeptolI_scaff_21_GENE_25_SigP	10	0	0	hypothetical protein 735291:736745 reverse # pl:7.80 MW:53899
1	UBA_LeptolI_382_21_SigP	4	0	0	(S - Uncharacterized protein conserved in bacteria) # pl:9.37 MW:30574
1	UBA_LeptolI_Scaffold_7931_GENE_281_SigP	3	0	0	Periplasmic protein involved in polysaccharide ex port 311387:312244 reverse # pl:9.91 MW:31407
1	5way_CG_LeptolI_scaff_7_GENE_28_SigP	3	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
1	UBA_LeptolI_Scaffold_8241_GENE_522_SigP	10	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
1	5way_CG_LeptolI_scaff_48_GENE_32_SigP	10	0	0	peptidyl-prolyl cis-strans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
1	5way_CG_LeptolI_scaff_45_GENE_1_SigP	3	0	0	hypothetical protein 1327401:1327739 forward # pl:8.96 MW:11861
1	5way_CG_LeptolI_scaff_14_GENE_26_SigP	5	0	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
1	UBA_LeptolI_Scaffold_8135_GENE_81_SigP	5	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
1	UBA_LeptolI_Scaffold_8049_GENE_3_SigP	5	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
1	5way_CG_LeptolI_scaff_25_GENE_2_SigP	5	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
1	5way_CG_LeptolI_scaff_120_GENE_14_SigP	5	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
1	UBA_LeptolI_Scaffold_8062_GENE_151_SigP	5	0	0	Hypothetical protein 158736:159437 reverse # pl:10.88 MW:26479
1	UBA_LeptolI_Scaffold_8241_GENE_236_SigP	6	0	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
1	5way_CG_LeptolI_scaff_4_GENE_18_SigP	6	0	0	hypothetical protein 258509:259063 forward # pl:4.82 MW:19679
1	5way_CG_LeptolI_scaff_2_GENE_54_SigP	5	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
1	gpl_scaff_198_GENE_2_SigP	4	0	0	# Gene_name: FixC # Function: Dehydrogenases (flavoproteins) # e-36 # pl:6.27 MW:44603
1	UBA_LeptolI_354_2_SigP	2	0	0	(-) # pl:7.82 MW:16492
1	UBA_LeptolI_Scaffold_8241_GENE_690_SigP	17	0	0	Hypothetical protein 681251:682891 forward # pl:4.70 MW:59054
1	Unass_arch_scaff_952_GENE_3_SigP	3	0	0	- # Function: Hypothetical protein # pl:9.38 MW:23467
1	UBA_LeptolI_Scaffold_8027_GENE_55_SigP	4	0	0	FOG 55616:56380 forward # pl:9.75 MW:29641
1	5way_CG_LeptolI_scaff_96_GENE_12_SigP	4	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
1	5way_CG_LeptolI_scaff_44_GENE_17_SigP	6	0	0	malate dehydrogenase 1311610:1312572 forward # pl:6.14 MW:34712

1	UBA_LeptolI_Scaffold_8027_GENE_31_SigP	6	0	0	Malate/lactate dehydrogenases 32641:33603 forward # pl:6.37 MW:34682
1	5way_CG_LeptolI_scaff_27_GENE_41_SigP	9	1	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
1	5way_CG_LeptolI_scaff_32_GENE_15_SigP	3	0	0	hypothetical protein 1087013:1087738 forward # pl:7.91 MW:25653
1	5way_CG_LeptolI_scaff_22_GENE_28_SigP	2	0	0	hypothetical protein 794184:794561 reverse # pl:10.83 MW:14375
1	5way_CG_LeptolI_scaff_6_GENE_46_SigP	7	1	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
1	UBA_LeptolI_Scaffold_8692_GENE_45_SigP	8	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
1	5way_CG_LeptolI_scaff_30_GENE_28_SigP	8	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
1	5way_CG_LeptolI_scaff_4_GENE_7_SigP	5	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
1	Unass_bact_scaff_1134_GENE_1_SigP	4	0	0	- # Function: Hypothetical protein # pl:9.69 MW:13731
1	UBA_LeptolIII_361_9_SigP	3	0	0	(-) # pl:9.43 MW:25462
1	5way_CG_LeptolI_scaff_96_GENE_6_SigP	6	1	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
1	5way_CG_LeptolI_scaff_287_GENE_4_SigP	2	0	0	hypothetical protein 2399359:2399979 reverse # pl:8.69 MW:22528
1	UBA_LeptolI_Scaffold_8692_GENE_129_SigP	5	0	0	Uncharacterized NAD(FAD)-dependent dehydrogenases 123535:124674 reverse # pl:7.78 MW:42008
1	5way_CG_LeptolI_scaff_32_GENE_24_SigP	35	0	0	hypothetical protein 1095187:1095858 forward # pl:4.69 MW:23690
1	UBA_LeptolI_Scaffold_7931_GENE_377_SigP	4	0	0	undefined product 432399:433847 forward # pl:4.30 MW:52721
1	5way_CG_LeptolI_scaff_41_GENE_16_SigP	4	0	0	hypothetical protein 1189524:1190972 reverse # pl:4.22 MW:52723
1	5way_CG_LeptolI_scaff_66_GENE_9_SigP	2	0	0	hypothetical protein 1593933:1594931 forward # pl:5.00 MW:36982
1	UBA_LeptolI_Scaffold_8049_GENE_375_SigP	2	0	0	undefined product 357444:357965 forward # pl:9.75 MW:19619
1	UBA_LeptolI_Scaffold_8062_GENE_268_SigP	5	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
1	UBA_LeptolIII_395_61_SigP	5	0	0	(-) # pl:9.73 MW:17490
1	5way_CG_LeptolI_scaff_265_GENE_14_SigP	5	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
1	UBA_LeptolI_Scaffold_8241_GENE_21_SigP	6	0	0	Putative phospholipid binding protein 18471:19037 reverse # pl:9.81 MW:20481
1	5way_CG_LeptolI_scaff_42_GENE_24_SigP	6	0	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
1	UBA_LeptolIII_376_20_SigP	4	0	0	(-) # pl:4.42 MW:51488
1	UBA_LeptolIII_399_94_SigP	4	0	0	(-) # pl:4.49 MW:57767
1	5way_CG_LeptolI_scaff_59_GENE_28_SigP	3	0	0	hypothetical protein 1554663:1555283 forward # pl:10.76 MW:22906
1	UBA_LeptolIII_332_4_SigP	2	0	0	(-) # pl:8.60 MW:14958
1	UBA_LeptolI_Scaffold_8524_GENE_165_SigP	2	0	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
1	5way_CG_LeptolI_scaff_68_GENE_16_SigP	2	0	0	hypothetical protein 1654556:1655425 forward # pl:9.89 MW:31842
1	UBA_LeptolI_Scaffold_7931_GENE_363_SigP	3	0	0	Peroxisredoxin 418582:419157 forward # pl:9.67 MW:21131
1	UBA_LeptolIII_399_122_SigP	2	0	0	(-) # pl:5.36 MW:16668
1	5way_CG_LeptolI_scaff_167_GENE_10_SigP	8	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
1	5way_CG_LeptolI_scaff_86_GENE_17_SigP	5	0	0	hypothetical protein 1859523:1860593 reverse # pl:9.14 MW:39110
1	5way_CG_LeptolI_scaff_48_GENE_7_SigP	7	0	0	hypothetical protein 1405849:1406394 reverse # pl:9.64 MW:20256
1	UBA_LeptolI_Scaffold_8027_GENE_49_SigP	4	1	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pl:9.05 MW:50054
1	5way_CG_LeptolI_scaff_13_GENE_22_SigP	2	0	0	flagellar P-ring protein 600771:601835 reverse # pl:9.86 MW:37671
1	UBA_LeptolI_Scaffold_8049_GENE_47_SigP	3	0	0	Hypothetical protein 37752:38414 reverse # pl:9.93 MW:24100
1	5way_CG_LeptolI_scaff_41_GENE_24_SigP	2	0	0	hypothetical protein 1198537:1199181 reverse # pl:9.03 MW:23062
1	Unass_arch_scaff_986_GENE_2_SigP	5	0	0	# Gene_name: UgpB # Function: Sugar-binding periplasmic proteins/domains # e-47 # pl:5.75 MW:51639
1	UBA_LeptolIII_377_1_SigP	6	0	0	(-) # pl:4.34 MW:22342
1	UBA_LeptolI_Scaffold_8241_GENE_544_SigP	6	0	0	Hypothetical protein 522023:522568 forward # pl:9.54 MW:20235
1	UBA_LeptolI_Scaffold_8241_GENE_610_SigP	2	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
1	UBA_LeptolI_Scaffold_7931_GENE_383_SigP	3	0	0	undefined product 441204:441656 forward # pl:7.12 MW:15956
1	5way_CG_LeptolI_scaff_41_GENE_9_SigP	3	0	0	hypothetical protein 1181714:1182166 reverse # pl:7.84 MW:15936
1	5way_CG_LeptolI_scaff_53_GENE_26_SigP	8	0	0	hypothetical protein 1495267:1496724 reverse # pl:10.11 MW:49724
1	UBA_LeptolIII_399_64_SigP	2	0	0	(-) # pl:9.80 MW:25377
1	UBA_LeptolIII_373_28_SigP	2	0	0	(-) # pl:9.63 MW:30028
1	UBA_LeptolIII_374_3_SigP	5	0	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
1	UBA_LeptolI_Scaffold_8241_GENE_79_SigP	5	0	0	Hypothetical protein 78556:79164 reverse # pl:9.58 MW:21627
1	UBA_LeptolI_Scaffold_8524_GENE_127_SigP	9	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pl:9.38 MW:87643
1	5way_CG_LeptolI_scaff_6_GENE_20_SigP	9	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
1	UBA_LeptolI_Scaffold_7931_GENE_347_SigP	4	0	0	Hypothetical protein 402145:403218 reverse # pl:8.65 MW:39325
1	5way_CG_LeptolI_scaff_96_GENE_5_SigP	5	0	0	hypothetical protein 1906272:1907108 forward # pl:11.31 MW:30636
1	UBA_LeptolI_Scaffold_7931_GENE_122_SigP	4	0	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
1	5way_CG_LeptolI_scaff_46_GENE_27_SigP	4	0	0	cytochrome c 1395273:1396082 forward # pl:9.97 MW:29736
1	UBA_LeptolI_Scaffold_8524_GENE_101_SigP	7	0	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
1	5way_CG_LeptolI_scaff_183_GENE_6_SigP	2	0	0	hypothetical protein 2174071:2174934 forward # pl:9.26 MW:31876
1	UBA_LeptolIII_393_44_SigP	3	0	0	(-) # pl:9.02 MW:37913
1	UBA_LeptolIII_394_19_SigP	2	0	0	(C - Cytochrome c553) # pl:9.88 MW:26137
1	UBA_LeptolIII_396_5_SigP	2	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
1	fer2_scaff_12_GENE_37_SigP	4	0	0	- # Function: Hypothetical protein # pl:8.94 MW:32472
1	UBA_LeptolI_Scaffold_8241_GENE_149_SigP	35	0	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
1	UBA_LeptolIII_334_5_SigP	3	0	0	(-) # pl:10.11 MW:31964
1	UBA_LeptolI_Scaffold_7931_GENE_128_SigP	4	0	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
1	5way_CG_LeptolI_scaff_186_GENE_4_SigP	4	0	0	general secretion pathway GspD 2193892:2195559 forward # pl:9.57 MW:59267
1	UBA_LeptolI_Scaffold_8049_GENE_42_SigP	2	0	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108
1	UBA_LeptolIII_353_2_SigP	3	0	0	(-) # pl:9.33 MW:31803
1	5way_CG_LeptolI_scaff_59_GENE_29_SigP	2	0	0	outer membrane efflux protein 1555634:1557010 forward # pl:8.91 MW:51472
1	UBA_LeptolI_Scaffold_8241_GENE_256_SigP	2	0	0	Hypothetical protein 241268:241888 reverse # pl:10.64 MW:22967

1	UBA_LeptolI_Scaffold_8241_GENE_55_SigP	2	0	0	Conserved hypothetical protein 53795:55249 reverse # pl:8.85 MW:54208
1	5way_CG_LeptolI_scaff_51_GENE_24_SigP	5	0	0	TonB-dependent receptor 1462305:1465229 reverse # pl:5.09 MW:104765
1	UBA_LeptolIII_317_6_SigP	2	0	0	(C - Pyruvate:ferredoxin oxidoreductase and related 2-oxoacid:ferredoxin oxidoreductases, gamma subunit) # pl:8.83 MW:25186
1	UBA_LeptolI_Scaffold_8062_GENE_258_SigP	2	0	0	Hypothetical protein 266641:267096 forward # pl:10.18 MW:17026
1	UBA_LeptolIII_395_51_SigP	2	0	0	(-) # pl:10.18 MW:17026
1	5way_CG_LeptolI_scaff_27_GENE_35_SigP	2	0	0	hypothetical protein 1011242:1011697 forward # pl:10.11 MW:17026
1	UBA_LeptolI_Scaffold_8692_GENE_75_SigP	6	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
1	5way_CG_LeptolI_scaff_22_GENE_33_SigP	6	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
1	fer1_scaff_58_GENE_10_SigP	2	0	0	# Gene_name: Mdh # Function: Malate/lactate dehydrogenases # e-123 # pl:5.75 MW:34719
1	UBA_LeptolIII_376_1_SigP	2	0	0	(S - Uncharacterized protein conserved in bacteria) # pl:5.59 MW:47582
1	Unass_arch_scaff_954_GENE_1_SigP	2	0	0	- # Function: Hypothetical protein # pl:9.49 MW:21505
1	UBA_LeptolI_Scaffold_8241_GENE_103_SigP	2	0	0	undefined product 104291:105808 reverse # pl:4.37 MW:54784
1	5way_CG_LeptolI_scaff_32_GENE_36_SigP	2	0	0	hypothetical protein 1104400:1105929 forward # pl:4.32 MW:55077
1	UBA_LeptolIII_384_28_SigP	3	0	0	(C - Malate/lactate dehydrogenases) # pl:6.34 MW:34591
1	UBA_LeptolIII_390_44_SigP	17	0	0	(-) # pl:7.72 MW:17434
1	UBA_LeptolIII_307_1_SigP	17	0	0	(-) # pl:9.55 MW:17070
1	UBA_LeptolI_Scaffold_8692_GENE_152a_SigP	4	0	0	Hypothetical protein 144506:146251 reverse # pl:10.50 MW:66356
1	UBA_LeptolI_Scaffold_8062_GENE_198_SigP	2	0	0	Methyl-accepting chemotaxis protein 207853:209586 forward # pl:7.22 MW:63761
1	5way_CG_LeptolI_scaff_135_GENE_8_SigP	2	0	0	methyl-accepting chemotaxis protein 2005301:2007034 forward # pl:6.87 MW:63854
1	UBA_LeptolI_Scaffold_7931_GENE_176_SigP	3	0	0	Predicted HD superfamily hydrolase 187397:188962 reverse # pl:6.12 MW:58581
1	UBA_LeptolIII_354_5_SigP	2	0	0	(G - Predicted N-acetylglucosaminyl transferase) # pl:6.32 MW:53449
1	5way_CG_LeptolI_scaff_32_GENE_53_SigP	2	0	0	efflux transporter 1124403:1125452 forward # pl:10.38 MW:37076
1	UBA_LeptolI_Scaffold_8241_GENE_337_SigP	2	0	0	Peptidase M23/M37 family 319746:320636 reverse # pl:10.67 MW:32300
1	UBA_LeptolI_Scaffold_8524_GENE_244_SigP	2	0	0	Cbb3-type cytochrome oxidase, subunit 1 232629:234011 forward # pl:9.07 MW:51749
1	5way_CG_LeptolI_scaff_48_GENE_30_SigP	2	0	0	peptidyl-prolyl cis-trans isomerase 1425137:1426006 forward # pl:9.84 MW:32345
1	UBA_LeptolI_Scaffold_8241_GENE_384_SigP	2	0	0	Signal transduction histidine kinase involved in nitrogen fixation and metabolism regulation 362680:364935 reverse # pl:7.97 MW:84200
1	5way_CG_LeptolI_scaff_3_GENE_93_SigP	2	0	0	nitrogen regulation protein NtrY/signal transduction histidine kinase 226438:228693 reverse # pl:7.97 MW:84029
1	5way_CG_LeptolI_scaff_53_GENE_17_SigP	3	0	0	hypothetical protein 1482065:1483813 reverse # pl:10.58 MW:67070
1	5way_CG_LeptolI_scaff_4_GENE_62_SigP	3	0	0	methyl-accepting chemotaxis protein 301193:302866 forward # pl:8.95 MW:60984
1	UBA_LeptolIII_398_127_SigP	3	0	0	(M - Outer membrane protein) # pl:9.46 MW:53453
1	UBA_LeptolI_Scaffold_8692_GENE_61_SigP	2	0	0	Outer membrane protein 61581:63005 reverse # pl:8.50 MW:52169
1	5way_CG_LeptolI_scaff_30_GENE_12_SigP	2	0	0	outer membrane efflux protein 1042734:1044158 forward # pl:6.61 MW:52107
1	UBA_LeptolI_Scaffold_8062_GENE_114_SigP	4	0	0	Outer membrane receptor for Fe3+-dicitrate 108626:111550 forward # pl:5.10 MW:104983
1	5way_CG_LeptolI_scaff_865_GENE_1_SigP	5	0	0	hypothetical protein 2820338:2820835 forward # pl:4.07 MW:17740
1	UBA_LeptolI_Scaffold_8692_GENE_147_SigP	2	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
1	UBA_LeptolI_Scaffold_8241_GENE_566_SigP	3	0	0	Cation/multidrug efflux pump 548557:551730 forward # pl:8.44 MW:116594
1	5way_CG_LeptolI_scaff_43_GENE_15_SigP	3	0	0	cation efflux transport 1271055:1274228 forward # pl:7.83 MW:116596
1	UBA_LeptolI_Scaffold_8692_GENE_7_SigP	2	0	0	Uncharacterized protein conserved in bacteria 7449:8882 forward # pl:5.87 MW:53341
1	UBA_LeptolIII_378_9_SigP	2	0	0	(R - FOG: TPR repeat) # pl:9.56 MW:86065
1	UBA_LeptolI_Scaffold_7931_GENE_181_SigP	2	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pl:10.33 MW:77941
1	5way_CG_LeptolI_scaff_2_GENE_44_SigP	2	0	0	soluble lytic transglycosylase 48347:50407 reverse # pl:10.33 MW:77488
1	Unass_arch_scaff_525_GENE_5_SigP	4	0	0	- # Function: Hypothetical protein # pl:8.03 MW:70772
1	UBA_LeptolI_Scaffold_8241_GENE_469_SigP	2	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
1	UBA_LeptolIII_399_73_SigP	2	0	0	(P - Outer membrane receptor for Fe3+-dicitrate) # pl:5.29 MW:103588
1	UBA_LeptolI_Scaffold_8241_GENE_196_SigP	2	0	0	Putative methyl-accepting chemotaxis protein 183744:185417 reverse # pl:8.32 MW:61190

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB Muck GSII Sample Set - Run 2

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
2	UBA_LeptolI_Scaffold_8524_GENE_128_SigP	258	17	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
2	5way_CG_LeptolI_scaff_6_GENE_19_SigP	296	17	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
2	Unass_bact_scaff_1131_GENE_3_SigP	55	1	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
2	5way_CG_LeptolI_scaff_3_GENE_4_SigP	252	5	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
2	UBA_LeptolI_Scaffold_8049_GENE_366_SigP	332	0	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
2	5way_CG_LeptolI_scaff_62_GENE_10_SigP	230	23	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
2	5way_CG_LeptolI_scaff_45_GENE_15_SigP	310	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
2	UBA_LeptolI_Scaffold_8135_GENE_9_SigP	226	23	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
2	UBA_LeptolI_Scaffold_8241_GENE_297_SigP	237	4	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
2	5way_CG_LeptolI_scaff_23_GENE_15_SigP	78	28	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
2	UBA_LeptolI_Scaffold_8524_GENE_248_SigP	29	1	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
2	5way_CG_LeptolI_scaff_141_GENE_2_SigP	40	2	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
2	5way_CG_LeptolI_scaff_21_GENE_20_SigP	42	0	0	hypothetical protein 728920:729237 forward # pl:9.18 MW:11040
2	UBA_LeptolI_Scaffold_8049_GENE_83_SigP	73	28	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
2	UBA_LeptolI_Scaffold_8062_GENE_53_SigP	89	2	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
2	5way_CG_LeptolI_scaff_141_GENE_3_SigP	180	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
2	UBA_LeptolI_Scaffold_8062_GENE_34_SigP	130	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
2	UBA_LeptolI_Scaffold_8241_GENE_56_SigP	66	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
2	5way_CG_LeptolI_scaff_21_GENE_26_SigP	66	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
2	5way_CG_LeptolI_scaff_41_GENE_27_SigP	57	3	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
2	UBA_LeptolI_Scaffold_8524_GENE_249_SigP	173	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
2	5way_CG_LeptolI_scaff_81_GENE_24_SigP	86	2	0	(-) # pl:10.05 MW:15038
2	UBA_LeptolIII_314_4_SigP	86	2	0	(-) # pl:10.05 MW:15038
2	5way_CG_LeptolI_scaff_98_GENE_12_SigP	138	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
2	5way_CG_LeptolI_scaff_4_GENE_16_SigP	130	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
2	5way_CG_LeptolI_scaff_98_GENE_16_SigP	93	0	0	hypothetical protein 1939943:1940773 reverse # pl:5.20 MW:28369
2	UBA_LeptolIII_398_122_SigP	7	2	0	(-) # pl:9.92 MW:13689
2	5way_CG_LeptolI_scaff_8_GENE_23_SigP	34	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
2	5way_CG_LeptolI_scaff_8_GENE_20_SigP	16	1	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
2	5way_CG_LeptolI_scaff_62_GENE_1_SigP	19	3	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
2	5way_CG_LeptolI_scaff_8_GENE_36_SigP	10	0	0	thiol disulfide isomerae 534913:535557 forward # pl:6.48 MW:23606
2	UBA_LeptolI_Scaffold_7931_GENE_365_SigP	49	3	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
2	UBA_LeptolI_Scaffold_8241_GENE_348_SigP	87	1	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
2	UBA_LeptolIII_398_2_SigP	19	1	0	(-) # pl:10.81 MW:15675
2	UBA_LeptolI_Scaffold_8241_GENE_349_SigP	177	0	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
2	UBA_LeptolI_Scaffold_8524_GENE_201_SigP	30	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
2	UBA_LeptolI_Scaffold_8049_GENE_48_SigP	11	2	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
2	UBA_LeptolI_Scaffold_8049_GENE_192_SigP	110	1	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
2	5way_CG_LeptolI_scaff_80_GENE_22_SigP	33	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
2	UBA_LeptolI_Scaffold_8241_GENE_238_SigP	97	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
2	UBA_LeptolIII_390_49_SigP	31	2	0	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
2	5way_CG_LeptolI_scaff_374_GENE_7_SigP	117	31	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
2	UBA_LeptolI_Scaffold_8241_GENE_153_SigP	117	31	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
2	5way_CG_LeptolI_scaff_43_GENE_14_SigP	43	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
2	5way_CG_LeptolI_scaff_3_GENE_5_SigP	130	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
2	5way_CG_LeptolI_scaff_32_GENE_19_SigP	127	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114
2	5way_CG_LeptolI_scaff_32_GENE_25_SigP	142	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
2	UBA_LeptolI_Scaffold_8241_GENE_298_SigP	129	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
2	5way_CG_LeptolI_scaff_46_GENE_16_SigP	26	7	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
2	UBA_LeptolI_Scaffold_7931_GENE_111_SigP	26	7	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
2	UBA_LeptolI_Scaffold_8241_GENE_121_SigP	122	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
2	5way_CG_LeptolI_scaff_333_GENE_9_SigP	13	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
2	5way_CG_LeptolI_scaff_96_GENE_7_SigP	41	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
2	UBA_LeptolI_Scaffold_8027_GENE_50_SigP	39	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
2	5way_CG_LeptolI_scaff_511_GENE_2_SigP	84	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
2	5way_CG_LeptolI_scaff_42_GENE_34_SigP	25	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
2	UBA_LeptolIII_361_11_SigP	41	0	0	(-) # pl:9.66 MW:26334
2	UBA_LeptolI_Scaffold_8692_GENE_69_SigP	16	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
2	UBA_LeptolI_Scaffold_7931_GENE_87_SigP	26	0	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
2	5way_CG_LeptolI_scaff_66_GENE_21_SigP	26	0	0	hypothetical protein 1603957:1604319 reverse # pl:8.80 MW:13441
2	5way_CG_LeptolI_scaff_96_GENE_14_SigP	38	0	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
2	UBA_LeptolIII_391_4_SigP	25	0	0	(-) # pl:10.15 MW:22759
2	UBA_LeptolI_Scaffold_8062_GENE_38_SigP	60	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
2	UBA_LeptolIII_388_1_SigP	28	0	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
2	5way_CG_LeptolI_scaff_86_GENE_7_SigP	32	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372

2	UBA_LeptolII_394_70_SigP	21	1	0	(-) # pl:10.49 MW:18094
2	UBA_LeptolII_399_92_SigP	32	5	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
2	5way_CG_LeptolII_scaff_98_GENE_11_SigP	30	0	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
2	UBA_LeptolII_Scaffold_8241_GENE_565_SigP	33	0	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
2	5way_CG_LeptolII_scaff_3_GENE_58_SigP	139	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
2	UBA_LeptolII_Scaffold_7931_GENE_338_SigP	20	0	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
2	UBA_LeptolII_Scaffold_8241_GENE_114_SigP	141	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
2	UBA_LeptolII_Scaffold_8241_GENE_81_SigP	31	0	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
2	5way_CG_LeptolII_scaff_21_GENE_56_SigP	31	0	0	hypothetical protein 761096:761443 forward # pl:10.42 MW:12486
2	UBA_LeptolII_Scaffold_8524_GENE_197_SigP	15	0	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
2	5way_CG_LeptolII_scaff_8_GENE_58_SigP	18	0	0	cytochrome c-551 558486:558818 reverse # pl:10.02 MW:11872
2	5way_CG_LeptolII_scaff_42_GENE_33_SigP	47	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
2	UBA_LeptolII_375_20_SigP	2	0	0	(-) # pl:9.30 MW:13970
2	5way_CG_LeptolII_scaff_25_GENE_47_SigP	8	0	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
2	UBA_LeptolII_317_6_SigP	6	0	0	(C - Pyruvate:ferredoxin oxidoreductase and related 2-oxoacid:ferredoxin oxidoreductases, gamma subunit) # pl:8.83 MW:25186
2	UBA_LeptolII_399_60_SigP	15	1	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
2	UBA_LeptolII_364_1_SigP	35	0	0	(-) # pl:10.85 MW:12350
2	5way_CG_LeptolII_scaff_30_GENE_6_SigP	15	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
2	UBA_LeptolII_Scaffold_8062_GENE_236_SigP	34	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
2	UBA_LeptolII_395_29_SigP	34	0	0	(-) # pl:9.79 MW:70443
2	UBA_LeptolII_Scaffold_7931_GENE_112_SigP	11	0	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
2	5way_CG_LeptolII_scaff_46_GENE_17_SigP	11	0	0	soluble cytochrome cB/cytochrome c553 1379572:1380243 reverse # pl:9.81 MW:24159
2	UBA_LeptolII_Scaffold_8027_GENE_57_SigP	36	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
2	UBA_LeptolII_Scaffold_8524_GENE_269_SigP	17	1	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589
2	5way_CG_LeptolII_scaff_46_GENE_4_SigP	11	3	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
2	UBA_LeptolII_Scaffold_7931_GENE_101_SigP	11	3	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
2	UBA_LeptolII_Scaffold_7931_GENE_349_SigP	29	0	0	Hypothetical protein 403648:404268 reverse # pl:6.14 MW:22293
2	5way_CG_LeptolII_scaff_86_GENE_19_SigP	29	0	0	hypothetical protein 1861083:1861703 reverse # pl:6.14 MW:22162
2	UBA_LeptolII_376_11_SigP	6	0	0	(-) # pl:7.90 MW:21402
2	UBA_LeptolII_328_11_SigP	22	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
2	5way_CG_LeptolII_scaff_14_GENE_26_SigP	10	1	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
2	UBA_LeptolII_Scaffold_8241_GENE_522_SigP	17	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
2	UBA_LeptolII_Scaffold_8241_GENE_693_SigP	144	31	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
2	UBA_LeptolII_373_5_SigP	14	0	0	(-) # pl:9.91 MW:21663
2	5way_CG_LeptolII_scaff_51_GENE_20_SigP	3	0	0	hypothetical protein 1459861:1460295 reverse # pl:9.38 MW:16001
2	5way_CG_LeptolII_scaff_2_GENE_49_SigP	15	5	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
2	UBA_LeptolII_Scaffold_7931_GENE_186_SigP	15	5	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
2	UBA_LeptolII_Scaffold_8049_GENE_109_SigP	6	0	0	Hypothetical protein 103611:104141 forward # pl:9.51 MW:19740
2	5way_CG_LeptolII_scaff_23_GENE_41_SigP	6	0	0	hypothetical protein 865371:865901 forward # pl:9.51 MW:19771
2	5way_CG_LeptolII_scaff_27_GENE_13_SigP	32	0	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
2	UBA_LeptolII_Scaffold_8049_GENE_209_SigP	13	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
2	UBA_LeptolII_394_71_SigP	5	0	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
2	5way_CG_LeptolII_scaff_689_GENE_3_SigP	5	0	0	cytochrome c551 2741290:2741619 forward # pl:9.20 MW:11513
2	UBA_LeptolII_Scaffold_8062_GENE_173_SigP	13	0	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
2	5way_CG_LeptolII_scaff_48_GENE_32_SigP	16	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
2	Unass_bact_scaff_903_GENE_5_SigP	6	0	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
2	UBA_LeptolII_Scaffold_8062_GENE_32_SigP	23	0	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
2	UBA_LeptolII_Scaffold_8524_GENE_216_SigP	8	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
2	5way_CG_LeptolII_scaff_32_GENE_52_SigP	11	1	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
2	UBA_LeptolII_Scaffold_8135_GENE_71_SigP	13	2	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
2	UBA_LeptolII_Scaffold_8241_GENE_573_SigP	25	0	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
2	5way_CG_LeptolII_scaff_43_GENE_22_SigP	26	0	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
2	5way_CG_LeptolII_scaff_4_GENE_18_SigP	6	2	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
2	UBA_LeptolII_Scaffold_8241_GENE_236_SigP	6	2	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
2	5way_CG_LeptolII_scaff_630_GENE_6_SigP	361	0	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
2	UBA_LeptolII_Scaffold_7931_GENE_352_SigP	8	0	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
2	5way_CG_LeptolII_scaff_43_GENE_19_SigP	29	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
2	UBA_LeptolII_Scaffold_8241_GENE_32_SigP	20	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194
2	5way_CG_LeptolII_scaff_376_GENE_6_SigP	4	2	0	hypothetical protein 2514094:2514462 reverse # pl:9.68 MW:13844
2	UBA_LeptolII_Scaffold_8135_GENE_81_SigP	8	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
2	UBA_LeptolII_Scaffold_8049_GENE_3_SigP	8	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
2	5way_CG_LeptolII_scaff_25_GENE_2_SigP	8	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
2	5way_CG_LeptolII_scaff_120_GENE_14_SigP	8	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
2	5way_CG_LeptolII_scaff_297_GENE_7_SigP	2	1	0	undefined product 93000:93377 forward # pl:6.24 MW:14033
2	UBA_LeptolII_Scaffold_7931_GENE_95_SigP	2	1	0	undefined product 93000:93377 forward # pl:6.24 MW:14033
2	UBA_LeptolII_Scaffold_7931_GENE_73_SigP	30	0	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
2	5way_CG_LeptolII_scaff_66_GENE_6_SigP	30	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pl:5.78 MW:23665
2	5way_CG_LeptolII_scaff_14_GENE_50_SigP	14	0	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
2	5way_CG_LeptolII_scaff_59_GENE_16_SigP	17	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
2	5way_CG_LeptolII_scaff_175_GENE_9_SigP	12	0	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746

2	UBA_LeptolI_Scaffold_8062_GENE_151_SigP	8	1	0	Hypothetical protein 158736:159437 reverse # pI:10.88 MW:26479
2	5way_CG_LeptolI_scaff_22_GENE_18_SigP	30	0	0	hypothetical protein 782328:783971 reverse # pI:4.70 MW:59166
2	UBA_LeptolII_394_29_SigP	16	3	0	(S - FOG: WD40-like repeat) # pI:10.12 MW:53843
2	5way_CG_LeptolI_scaff_120_GENE_4_SigP	13	0	0	efflux protein, CzcB 1968652:1969776 reverse # pI:9.89 MW:41685
2	5way_CG_LeptolI_scaff_21_GENE_53_SigP	13	0	0	hypothetical protein 759903:760511 reverse # pI:9.47 MW:21658
2	UBA_LeptolI_Scaffold_7931_GENE_16_SigP	6	0	0	Hypothetical protein 12313:12933 reverse # pI:9.26 MW:23588
2	5way_CG_LeptolI_scaff_428_GENE_6_SigP	6	0	0	hypothetical protein 2557294:2557914 reverse # pI:9.26 MW:23588
2	UBA_LeptolI_Scaffold_8241_GENE_392_SigP	4	0	0	Hypothetical protein 371271:371777 forward # pI:11.11 MW:18296
2	UBA_LeptolI_Scaffold_7931_GENE_97_SigP	6	0	0	Hypothetical protein 95055:95750 reverse # pI:8.82 MW:26173
2	5way_CG_LeptolI_scaff_297_GENE_5_SigP	6	0	0	hypothetical protein 2435933:2436628 forward # pI:8.82 MW:26173
2	UBA_LeptolII_307_1_SigP	74	0	0	(-) # pI:9.55 MW:17070
2	UBA_LeptolI_Scaffold_8241_GENE_175_SigP	4	0	0	Hypothetical protein 167847:168170 forward # pI:5.03 MW:11883
2	5way_CG_LeptolI_scaff_4_GENE_82_SigP	4	0	0	hypothetical protein 316894:317217 reverse # pI:5.03 MW:11881
2	UBA_LeptolII_394_36_SigP	11	0	0	(-) # pI:6.54 MW:55063
2	5way_CG_LeptolI_scaff_4_GENE_2_SigP	11	1	0	cation efflux protein 241937:243079 forward # pI:8.48 MW:42084
2	Unass_bact_scaff_920_GENE_3_SigP	15	3	0	- # Function: Hypothetical protein # pI:10.38 MW:47244
2	UBA_LeptolII_382_13_SigP	11	0	0	(-) # pI:9.79 MW:36778
2	5way_CG_LeptolI_scaff_98_GENE_10_SigP	9	0	0	hypothetical protein 1933888:1934532 forward # pI:9.80 MW:24317
2	UBA_LeptolI_Scaffold_8062_GENE_31_SigP	9	0	0	Hypothetical protein 33051:33695 forward # pI:9.77 MW:24199
2	UBA_LeptolI_Scaffold_7931_GENE_98_SigP	14	0	0	Hypothetical protein 96019:96525 forward # pI:9.43 MW:19616
2	5way_CG_LeptolI_scaff_297_GENE_4_SigP	14	0	0	hypothetical protein 2435158:2435664 reverse # pI:9.43 MW:19616
2	UBA_LeptolII_399_123_SigP	5	0	0	(-) # pI:9.93 MW:19208
2	UBA_LeptolI_Scaffold_7931_GENE_191_SigP	13	0	0	Hypothetical protein 208850:209530 forward # pI:4.58 MW:24366
2	UBA_LeptolII_384_12_SigP	5	0	0	(-) # pI:10.43 MW:24691
2	gpl_scaff_198_GENE_2_SigP	9	0	0	# Gene_name: FixC # Function: Dehydrogenases (flavoproteins) # e-36 # pI:6.27 MW:44603
2	5way_CG_LeptolI_scaff_22_GENE_28_SigP	5	0	0	hypothetical protein 794184:794561 reverse # pI:10.83 MW:14375
2	5way_CG_LeptolI_scaff_41_GENE_1_SigP	4	0	0	hypothetical protein 1173891:1174604 forward # pI:7.16 MW:25799
2	5way_CG_LeptolI_scaff_3_GENE_6_SigP	14	0	0	hypothetical protein 141011:141709 forward # pI:11.11 MW:25800
2	Unass_bact_scaff_1043_GENE_3_SigP	8	5	0	- # Function: Hypothetical protein # pI:9.28 MW:17946
2	UBA_LeptolI_Scaffold_7931_GENE_128_SigP	11	0	0	Type II secretory pathway, component PulD 133331:134998 forward # pI:9.57 MW:59267
2	5way_CG_LeptolI_scaff_186_GENE_4_SigP	11	0	0	general secretion pathway GspD 2193892:2195559 forward # pI:9.57 MW:59267
2	Unass_bact_scaff_1002_GENE_2_SigP	6	1	0	- # Function: Hypothetical protein # pI:4.82 MW:20989
2	UBA_LeptolI_Scaffold_8241_GENE_298a_SigP	11	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pI:11.10 MW:25887
2	5way_CG_LeptolI_scaff_45_GENE_1_SigP	3	0	0	hypothetical protein 1327401:1327739 forward # pI:8.96 MW:11861
2	5way_CG_LeptolI_scaff_13_GENE_57_SigP	12	0	0	hypothetical protein 633696:634211 reverse # pI:9.45 MW:19141
2	UBA_LeptolI_Scaffold_8241_GENE_570_SigP	27	0	0	Outer membrane protein 555547:557019 forward # pI:9.35 MW:54952
2	5way_CG_LeptolI_scaff_42_GENE_27_SigP	2	0	0	hypothetical protein 1233635:1234360 forward # pI:9.49 MW:27054
2	UBA_LeptolI_Scaffold_8241_GENE_544_SigP	7	0	0	Hypothetical protein 522023:522568 forward # pI:9.54 MW:20235
2	5way_CG_LeptolI_scaff_6_GENE_46_SigP	17	3	0	efflux protein 378052:379446 reverse # pI:9.11 MW:51904
2	UBA_LeptolI_Scaffold_8241_GENE_270_SigP	4	0	0	Conserved hypothetical protein 253548:254366 reverse # pI:6.28 MW:29540
2	UBA_LeptolII_377_5_SigP	4	0	0	(-) # pI:11.23 MW:25053
2	5way_CG_LeptolI_scaff_21_GENE_25_SigP	12	0	0	hypothetical protein 735291:736745 reverse # pI:7.80 MW:53899
2	UBA_LeptolI_Scaffold_8524_GENE_235_SigP	14	0	0	Cytochrome c551/c552 219925:220257 reverse # pI:9.89 MW:11806
2	5way_CG_LeptolI_scaff_30_GENE_22_SigP	29	0	0	hypothetical protein 1051620:1053815 forward # pI:9.78 MW:84204
2	UBA_LeptolI_Scaffold_8241_GENE_253_SigP	7	1	0	Putative secretion protein (HlyD) 238386:239528 reverse # pI:7.85 MW:42147
2	UBA_LeptolI_Scaffold_8241_GENE_295_SigP	7	0	0	Hypothetical protein 274121:274495 forward # pI:9.10 MW:13221
2	UBA_LeptolI_Scaffold_8241_GENE_256_SigP	8	0	0	Hypothetical protein 241268:241888 reverse # pI:10.64 MW:22967
2	5way_CG_LeptolI_scaff_59_GENE_28_SigP	8	0	0	hypothetical protein 1554663:1555283 forward # pI:10.76 MW:22906
2	UBA_LeptolII_397_16_SigP	7	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pI:9.97 MW:35837
2	UBA_LeptolI_Scaffold_8692_GENE_5_SigP	16	0	0	Hypothetical protein 4993:5544 forward # pI:10.17 MW:19972
2	UBA_LeptolI_Scaffold_8049_GENE_47_SigP	10	0	0	Hypothetical protein 37752:38414 reverse # pI:9.93 MW:24100
2	5way_CG_LeptolI_scaff_25_GENE_46_SigP	10	0	0	hypothetical protein 912913:913575 reverse # pI:10.04 MW:23895
2	UBA_LeptolI_Scaffold_8241_GENE_21_SigP	7	1	0	Putative phospholipid binding protein 18471:19037 reverse # pI:9.81 MW:20481
2	5way_CG_LeptolI_scaff_167_GENE_7_SigP	14	0	0	hypothetical protein 2094828:2096972 reverse # pI:8.62 MW:78226
2	UBA_LeptolII_353_2_SigP	3	0	0	(-) # pI:9.33 MW:31803
2	UBA_LeptolI_Scaffold_8062_GENE_118_SigP	2	0	0	Hypothetical protein 113559:113984 forward # pI:8.69 MW:15425
2	5way_CG_LeptolI_scaff_96_GENE_5_SigP	4	0	0	hypothetical protein 1906272:1907108 forward # pI:11.31 MW:30636
2	UBA_LeptolI_Scaffold_8692_GENE_133_SigP	9	0	0	Hypothetical protein 127591:128046 forward # pI:9.36 MW:16779
2	5way_CG_LeptolI_scaff_271_GENE_7_SigP	9	0	0	hypothetical protein 2363290:2363745 forward # pI:9.40 MW:16789
2	fer2_scaff_37_GENE_35_SigP	3	0	0	- # Function: Hypothetical protein # pI:9.77 MW:7981
2	UBA_LeptolI_Scaffold_8692_GENE_49_SigP	26	0	0	FOG 51650:53845 reverse # pI:9.71 MW:84153
2	UBA_LeptolI_Scaffold_8241_GENE_690_SigP	22	0	0	Hypothetical protein 681251:682891 forward # pI:4.70 MW:59054
2	UBA_LeptolI_Scaffold_8027_GENE_55_SigP	7	0	0	FOG 55616:56380 forward # pI:9.75 MW:29641
2	UBA_LeptolII_332_4_SigP	4	0	0	(-) # pI:8.60 MW:14958
2	UBA_LeptolII_398_1_SigP	2	0	0	(-) # pI:5.16 MW:9995
2	5way_CG_LeptolI_scaff_27_GENE_41_SigP	13	0	0	hypothetical protein 1015139:1016410 forward # pI:5.94 MW:46897
2	UBA_LeptolII_361_10_SigP	10	0	0	(-) # pI:9.57 MW:54911
2	UBA_LeptolII_351_1_SigP	6	0	0	(-) # pI:9.75 MW:19719
2	UBA_LeptolII_336_16_SigP	6	0	0	(-) # pI:9.75 MW:19719
2	UBA_LeptolI_Scaffold_8524_GENE_127_SigP	13	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pI:9.38 MW:87643

2	5way_CG_LeptolI_scaff_6_GENE_20_SigP	13	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
2	5way_CG_LeptolI_scaff_94_GENE_5_SigP	15	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
2	UBA_LeptolII_374_3_SigP	5	0	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
2	UBA_LeptolII_334_11_SigP	2	0	0	(-) # pl:4.68 MW:19133
2	5way_CG_LeptolI_scaff_86_GENE_16_SigP	2	0	0	hypothetical protein 1858822:1859469 reverse # pl:9.72 MW:24022
2	5way_CG_LeptolI_scaff_473_GENE_6_SigP	12	0	0	hypothetical protein 2604173:2604670 reverse # pl:10.24 MW:18719
2	UBA_LeptolI_Scaffold_7931_GENE_122_SigP	6	0	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
2	5way_CG_LeptolI_scaff_46_GENE_27_SigP	6	0	0	cytochrome c 1395273:1396082 forward # pl:9.97 MW:29736
2	5way_CG_LeptolI_scaff_69_GENE_29_SigP	2	0	0	hypothetical protein 1690146:1690733 forward # pl:6.65 MW:21276
2	5way_CG_LeptolI_scaff_3_GENE_101_SigP	3	0	0	hypothetical protein 235037:235543 forward # pl:10.62 MW:18410
2	UBA_LeptolI_Scaffold_7931_GENE_281_SigP	2	0	0	Periplasmic protein involved in polysaccharide ex port 311387:312244 reverse # pl:9.91 MW:31407
2	5way_CG_LeptolI_scaff_7_GENE_28_SigP	2	0	0	polysaccharide transport 455948:456805 reverse # pl:9.72 MW:31514
2	5way_CG_LeptolI_scaff_42_GENE_24_SigP	7	0	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
2	UBA_LeptolI_Scaffold_8062_GENE_26_SigP	3	0	0	Hypothetical protein 27591:28298 forward # pl:11.34 MW:26068
2	5way_CG_LeptolI_scaff_2_GENE_54_SigP	9	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
2	UBA_LeptolI_Scaffold_7931_GENE_377_SigP	9	0	0	undefined product 432399:433847 forward # pl:4.30 MW:52721
2	5way_CG_LeptolI_scaff_96_GENE_6_SigP	9	3	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
2	UBA_LeptolI_Scaffold_8692_GENE_161_SigP	12	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
2	UBA_LeptolII_398_147_SigP	9	0	0	(-) # pl:4.21 MW:48475
2	UBA_LeptolII_376_20_SigP	9	0	0	(-) # pl:4.42 MW:51488
2	UBA_LeptolI_Scaffold_8135_GENE_5_SigP	6	0	0	FOG 3195:4136 forward # pl:9.10 MW:34971
2	5way_CG_LeptolI_scaff_32_GENE_15_SigP	3	0	0	hypothetical protein 1087013:1087738 forward # pl:7.91 MW:25653
2	UBA_LeptolII_361_9_SigP	4	0	0	(-) # pl:9.43 MW:25462
2	UBA_LeptolI_Scaffold_8062_GENE_328_SigP	4	0	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
2	UBA_LeptolI_Scaffold_8027_GENE_48a_SigP	3	0	0	Hypothetical protein 47726:48559 forward # pl:11.68 MW:30762
2	Unass_bact_scaff_1134_GENE_1_SigP	4	0	0	- # Function: Hypothetical protein # pl:9.69 MW:13731
2	UBA_LeptolI_Scaffold_8241_GENE_610_SigP	8	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
2	UBA_LeptolI_Scaffold_8027_GENE_49_SigP	8	3	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pl:9.05 MW:50054
2	5way_CG_LeptolI_scaff_4_GENE_7_SigP	8	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
2	UBA_LeptolII_399_159_SigP	12	0	0	(-) # pl:9.62 MW:23985
2	UBA_LeptolI_Scaffold_8692_GENE_75_SigP	12	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
2	5way_CG_LeptolI_scaff_44_GENE_17_SigP	5	0	0	malate dehydrogenase 1311610:1312572 forward # pl:6.14 MW:34712
2	UBA_LeptolI_Scaffold_8027_GENE_31_SigP	3	0	0	Malate/lactate dehydrogenases 32641:33603 forward # pl:6.37 MW:34682
2	5way_CG_LeptolI_scaff_32_GENE_24_SigP	27	0	0	hypothetical protein 1095187:1095858 forward # pl:4.69 MW:23690
2	5way_CG_LeptolI_scaff_41_GENE_16_SigP	8	0	0	hypothetical protein 1189524:1190972 reverse # pl:4.22 MW:52723
2	UBA_LeptolII_399_67_SigP	3	0	0	(-) # pl:4.43 MW:20384
2	UBA_LeptolI_Scaffold_8241_GENE_55_SigP	7	0	0	Conserved hypothetical protein 53795:55249 reverse # pl:8.85 MW:54208
2	5way_CG_LeptolI_scaff_62_GENE_5_SigP	5	0	0	hypothetical protein 1560383:1561324 forward # pl:8.96 MW:35059
2	5way_CG_LeptolI_scaff_167_GENE_10_SigP	18	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
2	UBA_LeptolII_399_94_SigP	8	0	0	(-) # pl:4.49 MW:57767
2	5way_CG_LeptolI_scaff_41_GENE_29_SigP	3	0	0	bacterioferritin comigratory protein/peroxiredoxin 1204208:1204783 reverse # pl:9.67 MW:21373
2	UBA_LeptolI_Scaffold_7931_GENE_363_SigP	3	0	0	Peroxiredoxin 418582:419157 forward # pl:9.67 MW:21131
2	5way_CG_LeptolI_scaff_51_GENE_24_SigP	6	0	0	TonB-dependent receptor 1462305:1465229 reverse # pl:5.09 MW:104765
2	UBA_LeptolI_Scaffold_8692_GENE_45_SigP	9	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
2	5way_CG_LeptolI_scaff_30_GENE_28_SigP	9	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
2	5way_CG_LeptolI_scaff_96_GENE_12_SigP	5	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
2	Unass_arch_scaff_952_GENE_3_SigP	2	0	0	- # Function: Hypothetical protein # pl:9.38 MW:23467
2	UBA_LeptolII_377_1_SigP	11	0	0	(-) # pl:4.34 MW:22342
2	5way_CG_LeptolI_scaff_48_GENE_7_SigP	5	0	0	hypothetical protein 1405849:1406394 reverse # pl:9.64 MW:20256
2	5way_CG_LeptolI_scaff_4_GENE_70_SigP	2	0	0	dehydrogenase 307021:307728 reverse # pl:8.81 MW:25390
2	UBA_LeptolII_398_120_SigP	3	0	0	(-) # pl:9.55 MW:20727
2	UBA_LeptolI_Scaffold_8241_GENE_337_SigP	3	0	0	Peptidase M23/M37 family 319746:320636 reverse # pl:10.67 MW:32300
2	5way_CG_LeptolI_scaff_98_GENE_4_SigP	2	0	0	hypothetical protein 1928434:1929141 forward # pl:11.10 MW:26097
2	UBA_LeptolI_Scaffold_7931_GENE_383_SigP	5	0	0	undefined product 441204:441656 forward # pl:7.12 MW:15956
2	5way_CG_LeptolI_scaff_41_GENE_9_SigP	5	0	0	hypothetical protein 1181714:1182166 reverse # pl:7.84 MW:15936
2	UBA_LeptolI_Scaffold_8241_GENE_103_SigP	6	0	0	undefined product 104291:105808 reverse # pl:4.37 MW:54784
2	5way_CG_LeptolI_scaff_32_GENE_36_SigP	6	0	0	hypothetical protein 1104400:1105929 forward # pl:4.32 MW:55077
2	5way_CG_LeptolI_scaff_53_GENE_26_SigP	9	0	0	hypothetical protein 1495267:1496724 reverse # pl:10.11 MW:49724
2	UBA_LeptolII_395_59_SigP	2	0	0	(-) # pl:9.43 MW:19080
2	UBA_LeptolII_390_44_SigP	73	0	0	(-) # pl:7.72 MW:17434
2	Unass_arch_scaff_986_GENE_2_SigP	4	0	0	# Gene_name: UgpB # Function: Sugar-binding periplasmic proteins/domains # e-47 # pl:5.75 MW:51639
2	UBA_LeptolI_Scaffold_7931_GENE_123_SigP	6	0	0	Cytochrome c 128461:129270 forward # pl:9.68 MW:29622
2	5way_CG_LeptolI_scaff_46_GENE_28_SigP	6	0	0	cytochrome c 1396147:1396956 forward # pl:9.68 MW:29622
2	UBA_LeptolI_Scaffold_8241_GENE_138_SigP	5	0	0	Hypothetical protein 133262:133843 reverse # pl:4.80 MW:20939
2	UBA_LeptolI_Scaffold_8241_GENE_524_SigP	4	0	0	Parvulin-like peptidyl-prolyl isomerase 502388:503257 reverse # pl:9.96 MW:32363
2	UBA_LeptolII_334_5_SigP	2	0	0	(-) # pl:10.11 MW:31964
2	UBA_LeptolII_394_18_SigP	5	0	0	(C - Cytochrome c) # pl:9.67 MW:28371
2	5way_CG_LeptolI_scaff_22_GENE_33_SigP	9	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
2	5way_CG_LeptolI_scaff_80_GENE_19_SigP	3	0	0	thiol-disulfide isomerase 1807699:1808745 reverse # pl:8.70 MW:38966
2	UBA_LeptolII_356_3_SigP	3	0	0	(-) # pl:6.60 MW:24706

2	UBA_LeptolI_Scaffold_8049_GENE_42_SigP	3	0	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108
2	UBA_LeptolI_Scaffold_8062_GENE_268_SigP	2	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
2	UBA_LeptolII_395_61_SigP	2	0	0	(-) # pl:9.73 MW:17490
2	5way_CG_LeptolI_scaff_265_GENE_14_SigP	2	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
2	UBA_LeptolII_393_44_SigP	4	0	0	(-) # pl:9.02 MW:37913
2	UBA_LeptolI_Scaffold_8524_GENE_165_SigP	2	0	0	Hypothetical protein 151073:151942 reverse # pl:9.80 MW:31688
2	5way_CG_LeptolI_scaff_68_GENE_16_SigP	2	0	0	hypothetical protein 1654556:1655425 forward # pl:9.89 MW:31842
2	UBA_LeptolI_Scaffold_8524_GENE_101_SigP	12	0	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
2	UBA_LeptolII_396_5_SigP	4	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
2	UBA_LeptolII_382_21_SigP	5	0	0	(S - Uncharacterized protein conserved in bacteria) # pl:9.37 MW:30574
2	5way_CG_LeptolI_scaff_265_GENE_1_SigP	2	0	0	hypothetical protein 2347717:2348634 reverse # pl:9.78 MW:29226
2	fer2_scaff_12_GENE_37_SigP	6	0	0	- # Function: Hypothetical protein # pl:8.94 MW:32472
2	UBA_LeptolII_397_88_SigP	4	0	0	(N - Flagellar basal-body P-ring protein) # pl:10.90 MW:37210
2	fer1_scaff_58_GENE_10_SigP	2	0	0	# Gene_name: Mdh # Function: Malate/lactate dehydrogenases # e-123 # pl:5.75 MW:34719
2	5way_CG_LeptolI_scaff_22_GENE_30_SigP	2	0	0	cellulase 797157:798257 reverse # pl:9.98 MW:41939
2	UBA_LeptolI_Scaffold_8241_GENE_469_SigP	4	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
2	UBA_LeptolI_Scaffold_8241_GENE_381_SigP	2	0	0	DNA uptake lipoprotein 359495:360226 reverse # pl:9.91 MW:28875
2	5way_CG_LeptolI_scaff_3_GENE_90_SigP	2	0	0	competence protein ComL 223253:223984 reverse # pl:9.91 MW:28824
2	5way_CG_LeptolI_scaff_30_GENE_12_SigP	3	0	0	outer membrane efflux protein 1042734:1044158 forward # pl:6.61 MW:52107
2	5way_CG_LeptolI_scaff_66_GENE_9_SigP	2	0	0	hypothetical protein 1593933:1594931 forward # pl:5.00 MW:36982
2	UBA_LeptolI_Scaffold_8692_GENE_7_SigP	2	0	0	Uncharacterized protein conserved in bacteria 7449:8882 forward # pl:5.87 MW:53341
2	5way_CG_LeptolI_scaff_94_GENE_7_SigP	2	0	0	DNA recombination protein RmuC 1889956:1891389 forward # pl:5.78 MW:53255
2	5way_CG_LeptolI_scaff_141_GENE_14_SigP	2	0	0	serine protease 2055358:2056338 reverse # pl:10.66 MW:35079
2	5way_CG_LeptolI_scaff_48_GENE_30_SigP	3	0	0	peptidyl-prolyl cis-trans isomerase 1425137:1426006 forward # pl:9.84 MW:32345
2	UBA_LeptolII_374_9_SigP	3	0	0	(R - Uncharacterized NAD(FAD)-dependent dehydrogenases) # pl:8.31 MW:42014
2	UBA_LeptolI_Scaffold_8062_GENE_133_SigP	2	0	0	Hypothetical protein 138306:138929 forward # pl:9.11 MW:23422
2	5way_CG_LeptolI_scaff_14_GENE_4_SigP	2	0	0	hypothetical protein 648825:649448 forward # pl:9.19 MW:23376
2	gpl_scaff_388_GENE_4_SigP	5	0	0	- # Function: Hypothetical protein # pl:5.17 MW:43868
2	5way_CG_LeptolI_scaff_51_GENE_23_SigP	2	0	0	biopolymer export protein, ExbB 1461436:1462140 reverse # pl:8.89 MW:25749
2	UBA_LeptolI_Scaffold_8241_GENE_149_SigP	93	0	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
2	UBA_LeptolII_364_29_SigP	2	0	0	(P - Cytochrome c peroxidase) # pl:9.51 MW:36728
2	UBA_LeptolII_397_75_SigP	4	0	0	(N - Methyl-accepting chemotaxis protein) # pl:8.58 MW:61775
2	fer1_scaff_278_GENE_8_SigP	2	0	0	# Gene_name: EriC # Function: Chloride channel protein EriC # e-155 # pl:8.22 MW:63985
2	5way_CG_LeptolI_scaff_86_GENE_17_SigP	3	0	0	hypothetical protein 1859523:1860593 reverse # pl:9.14 MW:39110
2	5way_CG_LeptolI_scaff_2_GENE_44_SigP	4	0	0	soluble lytic transglycosylase 48347:50407 reverse # pl:10.33 MW:77488
2	UBA_LeptolII_343_2_SigP	2	0	0	(M - Outer membrane protein) # pl:6.25 MW:49966
2	UBA_LeptolI_Scaffold_8062_GENE_264_SigP	2	0	0	undefined product 270540:271802 forward # pl:5.82 MW:46323
2	UBA_LeptolII_395_57_SigP	2	0	0	(-) # pl:5.82 MW:46323
2	UBA_LeptolII_388_7_SigP	2	0	0	(O - Parvulin-like peptidyl-prolyl isomerase) # pl:9.83 MW:31994
2	UBA_LeptolII_379_16_SigP	3	0	0	(-) # pl:9.95 MW:71809
2	Unass_bact_scaff_1152_GENE_4_SigP	2	0	0	- # Function: Hypothetical protein # pl:4.54 MW:27258
2	UBA_LeptolII_394_7_SigP	2	0	0	(-) # pl:4.70 MW:28104
2	fer1_scaff_58_GENE_9_SigP	3	0	0	# Gene_name: SdhA # Function: Succinate dehydrogenase/fumarate reductase, flavoprotein subunits # e-145 # pl:5.89 MW:62615
2	UBA_LeptolI_Scaffold_8062_GENE_114_SigP	2	0	0	Outer membrane receptor for Fe3+-dicitrate 108626:111550 forward # pl:5.10 MW:104983
2	UBA_LeptolII_399_73_SigP	2	0	0	(P - Outer membrane receptor for Fe3+-dicitrate) # pl:5.29 MW:103588
2	5way_CG_LeptolI_scaff_865_GENE_1_SigP	6	0	0	hypothetical protein 2820338:2820835 forward # pl:4.07 MW:17740
2	UBA_LeptolI_Scaffold_8241_GENE_196_SigP	4	0	0	Putative methyl-accepting chemotaxis protein 183744:185417 reverse # pl:8.32 MW:61190
2	5way_CG_LeptolI_scaff_4_GENE_62_SigP	4	0	0	methyl-accepting chemotaxis protein 301193:302866 forward # pl:8.95 MW:60984
2	UBA_LeptolI_Scaffold_8062_GENE_245_SigP	4	0	0	Hypothetical protein 253388:254131 forward # pl:4.55 MW:26029
2	UBA_LeptolII_395_38_SigP	4	0	0	(-) # pl:4.55 MW:26029
2	5way_CG_LeptolI_scaff_27_GENE_22_SigP	4	0	0	hypothetical protein 997984:998727 forward # pl:4.75 MW:25979
2	UBA_LeptolI_Scaffold_7931_GENE_327_SigP	2	0	0	Hypothetical protein 375382:376227 reverse # pl:4.57 MW:28807
2	UBA_LeptolII_394_52_SigP	2	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554
2	UBA_LeptolII_378_9_SigP	3	0	0	(R - FOG: TPR repeat) # pl:9.56 MW:86065
2	UBA_LeptolI_Scaffold_7931_GENE_181_SigP	2	0	0	Soluble lytic murein transglycosylase and related regulatory proteins (some contain LysM/invasin domains) 191338:193404 reverse # pl:10.33 MW:77941
2	5way_CG_LeptolI_scaff_32_GENE_21_SigP	2	1	0	Putative histidine kinase 116577:118217 forward # pl:6.83 MW:60830
2	UBA_LeptolI_Scaffold_8241_GENE_119_SigP	2	1	0	Putative histidine kinase 116577:118217 forward # pl:6.83 MW:60830
2	UBA_LeptolI_Scaffold_8692_GENE_147_SigP	2	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
2	5way_CG_LeptolI_scaff_53_GENE_11_SigP	2	0	0	hypothetical protein 1475234:1476562 reverse # pl:9.99 MW:49997
2	UBA_LeptolI_Scaffold_8135_GENE_85_SigP	2	0	0	Prephenate dehydrogenase 88333:89241 forward # pl:6.38 MW:33399
2	5way_CG_LeptolI_scaff_57_GENE_5_SigP	2	0	0	prephenate dehydrogenase 1502194:1503102 forward # pl:6.81 MW:33581
2	UBA_LeptolI_Scaffold_7931_GENE_1_SigP	3	0	0	Membrane proteins related to metalloendopeptidase s 348:1544 reverse # pl:10.10 MW:46222
2	5way_CG_LeptolI_scaff_274_GENE_10_SigP	3	0	0	hypothetical protein 2375353:2376549 forward # pl:10.10 MW:46222
2	UBA_LeptolI_Scaffold_8135_GENE_89_SigP	3	0	0	Di- and tricarboxylate transporters 91921:93822 reverse # pl:8.75 MW:67706
2	5way_CG_LeptolI_scaff_57_GENE_9_SigP	3	0	0	sodium/sulfate transporter 1505782:1507683 reverse # pl:8.76 MW:67850
2	5way_CG_LeptolI_scaff_53_GENE_17_SigP	3	0	0	hypothetical protein 1482065:1483813 reverse # pl:10.58 MW:67070
2	UBA_LeptolI_Scaffold_8241_GENE_254_SigP	2	0	0	Outer membrane efflux protein 239540:240916 reverse # pl:8.91 MW:51398
2	5way_CG_LeptolI_scaff_59_GENE_29_SigP	2	0	0	outer membrane efflux protein 1555634:1557010 forward # pl:8.91 MW:51472
2	fer2_scaff_83_GENE_8_SigP	3	0	0	# Gene_name: PotE # Function: Amino acid transporters # e-105 # pl:9.80 MW:48814

Protein and New N-terminus Spectral Counts from Triplicate SignalP/MS Analysis of AB Muck GSII Sample Set - Run 3

Sample Num	Gene Name	Total Spec Count	New N-terminus Spec Count	Gene Called N-terminus	Function
3	UBA_Leptoll_Scaffold_8524_GENE_128_SigP	316	20	0	Hypothetical protein 117177:117779 forward # pl:9.77 MW:22435
3	5way_CG_Leptoll_scaff_6_GENE_19_SigP	348	20	0	hypothetical protein 353626:354228 reverse # pl:9.70 MW:22551
3	Unass_bact_scaff_1131_GENE_3_SigP	59	1	0	- # Function: Hypothetical protein # pl:9.90 MW:17619
3	5way_CG_Leptoll_scaff_141_GENE_2_SigP	43	2	0	hypothetical protein 2042492:2042890 forward # pl:9.43 MW:14376
3	UBA_Leptoll_Scaffold_8049_GENE_366_SigP	247	2	0	Uncharacterized conserved protein 349765:350418 reverse # pl:9.66 MW:23465
3	5way_CG_Leptoll_scaff_45_GENE_15_SigP	229	0	0	hypothetical protein 1339454:1340110 forward # pl:9.91 MW:23957
3	5way_CG_Leptoll_scaff_3_GENE_4_SigP	245	5	0	hypothetical protein 139495:139977 forward # pl:11.66 MW:16925
3	5way_CG_Leptoll_scaff_23_GENE_15_SigP	100	30	0	hypothetical protein 837182:837721 reverse # pl:9.99 MW:19310
3	5way_CG_Leptoll_scaff_62_GENE_10_SigP	250	24	0	exAb.AbMem Thiol disulfide isomerase, thioredoxin (check annotation!) 1564158:1565282 reverse # pl:6.71 MW:38671
3	UBA_Leptoll_Scaffold_8135_GENE_9_SigP	235	24	0	Uncharacterized conserved protein 6718:7887 reverse # pl:6.06 MW:40187
3	UBA_Leptoll_Scaffold_8241_GENE_297_SigP	237	3	0	Hypothetical protein 277491:277973 forward # pl:11.66 MW:16881
3	5way_CG_Leptoll_scaff_81_GENE_24_SigP	67	1	0	(-) # pl:10.05 MW:15038
3	UBA_LeptollIII_314_4_SigP	67	1	0	(-) # pl:10.05 MW:15038
3	UBA_Leptoll_Scaffold_8524_GENE_248_SigP	35	1	0	undefined product 239165:239563 forward # pl:9.71 MW:14477
3	UBA_Leptoll_Scaffold_8062_GENE_53_SigP	75	1	0	Hypothetical protein 51302:51691 reverse # pl:9.84 MW:14847
3	UBA_Leptoll_Scaffold_7931_GENE_365_SigP	45	1	0	Hypothetical protein 420086:421015 reverse # pl:10.19 MW:34183
3	5way_CG_Leptoll_scaff_141_GENE_3_SigP	176	0	0	AbMem; outer membrane protein OmpA 2042974:2043771 forward # pl:9.74 MW:29387
3	5way_CG_Leptoll_scaff_98_GENE_12_SigP	113	0	0	hypothetical protein 1935846:1936568 forward # pl:9.73 MW:27153
3	UBA_Leptoll_Scaffold_8049_GENE_83_SigP	91	30	0	Hypothetical protein 73960:74499 reverse # pl:9.99 MW:19281
3	5way_CG_Leptoll_scaff_41_GENE_27_SigP	54	3	0	hypothetical protein 1202350:1203279 forward # pl:10.40 MW:34222
3	5way_CG_Leptoll_scaff_4_GENE_16_SigP	108	0	0	hypothetical protein 255861:257264 reverse # pl:9.87 MW:51518
3	UBA_LeptollIII_398_2_SigP	22	1	0	(-) # pl:10.81 MW:15675
3	UBA_Leptoll_Scaffold_8241_GENE_56_SigP	65	0	0	Conserved hypothetical protein 55387:56004 reverse # pl:9.95 MW:23249
3	5way_CG_Leptoll_scaff_21_GENE_26_SigP	65	0	0	hypothetical protein 736883:737500 reverse # pl:9.91 MW:23241
3	5way_CG_Leptoll_scaff_98_GENE_16_SigP	87	0	0	hypothetical protein 1939943:1940773 reverse # pl:5.20 MW:28369
3	UBA_LeptollIII_398_122_SigP	6	1	0	(-) # pl:9.92 MW:13689
3	UBA_Leptoll_Scaffold_8049_GENE_192_SigP	117	1	0	Hypothetical protein 192241:193704 reverse # pl:10.09 MW:49541
3	UBA_Leptoll_Scaffold_8524_GENE_249_SigP	172	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 239653:240450 forward # pl:9.65 MW:29378
3	5way_CG_Leptoll_scaff_62_GENE_1_SigP	20	4	0	hypothetical protein 1557110:1557811 forward # pl:9.37 MW:25584
3	UBA_Leptoll_Scaffold_8062_GENE_34_SigP	104	0	0	Hypothetical protein 35018:35740 forward # pl:9.59 MW:27112
3	5way_CG_Leptoll_scaff_96_GENE_7_SigP	56	0	0	hypothetical protein 1908483:1909307 forward # pl:9.38 MW:30442
3	UBA_Leptoll_Scaffold_8027_GENE_50_SigP	56	0	0	Uncharacterized protein conserved in bacteria 49937:50761 forward # pl:9.38 MW:30425
3	5way_CG_Leptoll_scaff_374_GENE_7_SigP	133	35	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
3	UBA_Leptoll_Scaffold_8241_GENE_153_SigP	133	35	0	Hypothetical protein 147196:147687 reverse # pl:10.74 MW:18454
3	UBA_Leptoll_Scaffold_8241_GENE_348_SigP	81	2	0	Putative outer membrane protein 330572:332062 reverse # pl:10.01 MW:54255
3	5way_CG_Leptoll_scaff_8_GENE_23_SigP	24	0	0	hypothetical protein 522238:522885 forward # pl:8.57 MW:24182
3	5way_CG_Leptoll_scaff_80_GENE_22_SigP	37	0	0	abundant ext. Phos.binding.Perip. 1810478:1811572 forward # pl:9.85 MW:39888
3	5way_CG_Leptoll_scaff_32_GENE_19_SigP	134	0	0	serine protease 9th most abundant; most clearly extracellular - some proteases cleave repressors for recombination proteins 1089867:1091369 reverse # pl:10.01 MW:54114
3	5way_CG_Leptoll_scaff_14_GENE_26_SigP	14	2	0	hypothetical protein 669256:669939 reverse # pl:10.67 MW:25874
3	UBA_Leptoll_Scaffold_8049_GENE_48_SigP	9	2	0	Hypothetical protein 38492:38839 reverse # pl:10.12 MW:13045
3	5way_CG_Leptoll_scaff_25_GENE_47_SigP	12	1	0	hypothetical protein 913652:913999 reverse # pl:10.13 MW:13038
3	5way_CG_Leptoll_scaff_43_GENE_14_SigP	34	0	0	efflux transporter 1269856:1270947 forward # pl:9.87 MW:42205
3	UBA_LeptollIII_390_49_SigP	27	3	1	(S - Uncharacterized conserved protein) # pl:9.15 MW:38587
3	UBA_LeptollIII_388_1_SigP	29	1	0	(S - Uncharacterized conserved protein) # pl:9.75 MW:23401
3	UBA_Leptoll_Scaffold_8241_GENE_565_SigP	34	0	0	Membrane-fusion protein 547350:548441 forward # pl:9.82 MW:42267
3	UBA_Leptoll_Scaffold_8062_GENE_151_SigP	14	2	0	Hypothetical protein 158736:159437 reverse # pl:10.88 MW:26479
3	5way_CG_Leptoll_scaff_511_GENE_2_SigP	95	0	0	hypothetical protein 2631437:2632783 forward # pl:10.13 MW:38584
3	5way_CG_Leptoll_scaff_32_GENE_25_SigP	163	0	0	hypothetical protein 1096463:1097521 forward # pl:6.75 MW:37452
3	5way_CG_Leptoll_scaff_46_GENE_4_SigP	12	2	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
3	UBA_Leptoll_Scaffold_7931_GENE_101_SigP	12	2	0	Hypothetical protein 98944:99255 forward # pl:9.43 MW:11021
3	UBA_LeptollIII_361_11_SigP	39	0	0	(-) # pl:9.66 MW:26334
3	UBA_Leptoll_Scaffold_8241_GENE_121_SigP	125	0	0	Putative trypsin 118723:120225 forward # pl:9.94 MW:54044
3	UBA_Leptoll_Scaffold_8524_GENE_201_SigP	18	0	0	Hypothetical protein 188048:188695 forward # pl:8.57 MW:24275
3	UBA_Leptoll_Scaffold_8241_GENE_238_SigP	80	0	0	Hypothetical protein 224211:225614 forward # pl:9.90 MW:51423
3	UBA_Leptoll_Scaffold_7931_GENE_87_SigP	26	0	0	Hypothetical protein 84624:84986 reverse # pl:8.80 MW:13441
3	5way_CG_Leptoll_scaff_66_GENE_21_SigP	26	0	0	hypothetical protein 1603957:1604319 reverse # pl:8.80 MW:13441
3	5way_CG_Leptoll_scaff_30_GENE_6_SigP	14	0	0	hypothetical protein 1034308:1035024 forward # pl:4.79 MW:25399
3	5way_CG_Leptoll_scaff_96_GENE_14_SigP	39	0	0	hypothetical protein 1916026:1917033 forward # pl:9.64 MW:37515
3	UBA_LeptollIII_391_4_SigP	22	0	0	(-) # pl:10.15 MW:22759
3	5way_CG_Leptoll_scaff_333_GENE_9_SigP	12	0	0	hypothetical protein 2480782:2481156 forward # pl:8.76 MW:13268
3	UBA_LeptollIII_399_92_SigP	36	5	0	(P - ABC-type phosphate transport system, periplasmic component) # pl:9.34 MW:38828
3	UBA_Leptoll_Scaffold_8027_GENE_57_SigP	37	0	0	Hypothetical protein 57498:58505 forward # pl:9.58 MW:37506
3	5way_CG_Leptoll_scaff_21_GENE_56_SigP	37	1	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456
3	UBA_Leptoll_Scaffold_8241_GENE_81_SigP	37	1	0	Hypothetical protein 79750:80097 forward # pl:10.42 MW:12456

3	Sway_CG_Leptoll_scaff_3_GENE_5_SigP	142	0	0	peptidoglycan-associated lipoprotein 140116:140655 forward # pl:9.32 MW:19158
3	Sway_CG_Leptoll_scaff_42_GENE_34_SigP	38	0	0	zinc-dependent peptidase 1239842:1241287 forward # pl:9.07 MW:52126
3	UBA_Leptoll_Scaffold_8241_GENE_349_SigP	133	0	0	Hypothetical protein 332163:332660 reverse # pl:9.85 MW:19313
3	UBA_Leptoll_Scaffold_7931_GENE_352_SigP	6	1	0	undefined product 407654:408274 reverse # pl:9.30 MW:22176
3	UBA_Leptoll_Scaffold_8062_GENE_38_SigP	55	0	0	Hypothetical protein 39135:39977 reverse # pl:5.38 MW:28900
3	UBA_Leptoll_Scaffold_7931_GENE_97_SigP	12	0	0	Hypothetical protein 95055:95750 reverse # pl:8.82 MW:26173
3	Sway_CG_Leptoll_scaff_297_GENE_5_SigP	12	0	0	hypothetical protein 2435933:2436628 forward # pl:8.82 MW:26173
3	UBA_Leptoll_Scaffold_8241_GENE_298_SigP	141	0	0	Outer membrane protein and related peptidoglycan- associated (lipo)proteins 278109:278648 forward # pl:9.32 MW:19216
3	Sway_CG_Leptoll_scaff_46_GENE_16_SigP	17	4	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
3	UBA_Leptoll_Scaffold_7931_GENE_111_SigP	17	4	0	Cytochrome c 111006:111824 reverse # pl:10.25 MW:29786
3	Sway_CG_Leptoll_scaff_98_GENE_11_SigP	22	2	0	hypothetical protein 1934558:1935718 forward # pl:11.19 MW:43130
3	Sway_CG_Leptoll_scaff_3_GENE_58_SigP	108	0	0	hypothetical protein 195897:196394 reverse # pl:9.95 MW:19355
3	UBA_Leptoll_Scaffold_8241_GENE_114_SigP	159	0	0	Conserved hypothetical protein 112665:113723 reverse # pl:6.75 MW:37321
3	UBA_Leptoll_Scaffold_8049_GENE_109_SigP	9	0	0	Hypothetical protein 103611:104141 forward # pl:9.51 MW:19740
3	Sway_CG_Leptoll_scaff_23_GENE_41_SigP	9	0	0	hypothetical protein 865371:865901 forward # pl:9.51 MW:19771
3	UBA_Leptoll_Scaffold_8049_GENE_209_SigP	13	0	0	Hypothetical protein 209550:210629 reverse # pl:9.63 MW:39311
3	UBA_Leptoll_Scaffold_8692_GENE_69_SigP	13	0	0	Hypothetical protein 70715:71431 reverse # pl:4.79 MW:25429
3	UBA_LeptollIII_394_70_SigP	17	2	0	(-) # pl:10.49 MW:18094
3	Sway_CG_Leptoll_scaff_42_GENE_33_SigP	49	0	0	peptidase 1238384:1239814 forward # pl:9.34 MW:53756
3	UBA_LeptollIII_364_1_SigP	36	0	0	(-) # pl:10.85 MW:12350
3	UBA_Leptoll_Scaffold_8524_GENE_197_SigP	14	0	0	undefined product 184564:184965 forward # pl:8.76 MW:14241
3	Sway_CG_Leptoll_scaff_8_GENE_20_SigP	14	0	0	hypothetical protein 518693:519094 forward # pl:7.93 MW:14228
3	UBA_Leptoll_Scaffold_8241_GENE_693_SigP	100	27	0	ABC-type phosphate transport system, periplasmic component 684220:685338 forward # pl:9.63 MW:40722
3	Sway_CG_Leptoll_scaff_175_GENE_9_SigP	7	1	0	hypothetical protein 2146858:2147289 forward # pl:11.04 MW:15746
3	UBA_Leptoll_Scaffold_8241_GENE_270_SigP	15	0	0	Conserved hypothetical protein 253548:254366 reverse # pl:6.28 MW:29540
3	Sway_CG_Leptoll_scaff_86_GENE_7_SigP	31	0	0	hypothetical protein 1849704:1850654 reverse # pl:10.22 MW:34372
3	UBA_LeptollIII_307_1_SigP	50	1	0	(-) # pl:9.55 MW:17070
3	UBA_LeptollIII_351_1_SigP	11	0	0	(-) # pl:9.75 MW:19719
3	UBA_LeptollIII_336_16_SigP	11	0	0	(-) # pl:9.75 MW:19719
3	Sway_CG_Leptoll_scaff_2_GENE_49_SigP	14	4	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
3	UBA_Leptoll_Scaffold_7931_GENE_186_SigP	14	4	0	Hypothetical protein 199462:200178 forward # pl:10.09 MW:26773
3	UBA_Leptoll_Scaffold_8524_GENE_235_SigP	11	0	0	Cytochrome c551/c552 219925:220257 reverse # pl:9.89 MW:11806
3	Sway_CG_Leptoll_scaff_22_GENE_18_SigP	41	0	0	hypothetical protein 782328:783971 reverse # pl:4.70 MW:59166
3	UBA_Leptoll_Scaffold_7931_GENE_349_SigP	31	0	0	Hypothetical protein 403648:404268 reverse # pl:6.14 MW:22293
3	Sway_CG_Leptoll_scaff_86_GENE_19_SigP	31	0	0	hypothetical protein 1861083:1861703 reverse # pl:6.14 MW:22162
3	UBA_Leptoll_Scaffold_8241_GENE_32_SigP	32	0	0	Putative peptidase M16 27259:28704 forward # pl:9.11 MW:52194
3	Sway_CG_Leptoll_scaff_43_GENE_22_SigP	21	1	0	hypothetical protein 1281187:1282413 forward # pl:9.47 MW:45118
3	Sway_CG_Leptoll_scaff_59_GENE_16_SigP	19	0	0	hypothetical protein 1543720:1544538 forward # pl:6.79 MW:29474
3	Sway_CG_Leptoll_scaff_630_GENE_6_SigP	338	1	0	hypothetical protein 2710915:2712627 reverse # pl:5.11 MW:61312
3	Sway_CG_Leptoll_scaff_21_GENE_53_SigP	12	0	0	hypothetical protein 759903:760511 reverse # pl:9.47 MW:21658
3	Unass_bact_scaff_1002_GENE_2_SigP	4	1	0	- # Function: Hypothetical protein # pl:4.82 MW:20989
3	UBA_Leptoll_Scaffold_7931_GENE_338_SigP	21	0	0	FOG 392541:393491 reverse # pl:10.32 MW:34422
3	UBA_Leptoll_Scaffold_7931_GENE_112_SigP	13	0	0	Cytochrome c553 111886:112557 reverse # pl:9.81 MW:24159
3	Sway_CG_Leptoll_scaff_46_GENE_17_SigP	13	0	0	soluble cytochrome cB/cytochrome c553 1379572:1380243 reverse # pl:9.81 MW:24159
3	UBA_LeptollIII_394_71_SigP	3	0	0	(C - Cytochrome c551/c552) # pl:9.20 MW:11513
3	Sway_CG_Leptoll_scaff_689_GENE_3_SigP	3	0	0	cytochrome c551 2741290:2741619 forward # pl:9.20 MW:11513
3	Sway_CG_Leptoll_scaff_21_GENE_20_SigP	39	0	0	hypothetical protein 728920:729237 forward # pl:9.18 MW:11040
3	Unass_bact_scaff_903_GENE_5_SigP	5	0	0	- # Function: Hypothetical protein # pl:10.40 MW:13091
3	UBA_LeptollIII_332_4_SigP	3	0	0	(-) # pl:8.60 MW:14958
3	UBA_Leptoll_Scaffold_8241_GENE_175_SigP	5	0	0	Hypothetical protein 167847:168170 forward # pl:5.03 MW:11883
3	Sway_CG_Leptoll_scaff_4_GENE_82_SigP	5	0	0	hypothetical protein 316894:317217 reverse # pl:5.03 MW:11881
3	UBA_LeptollIII_399_60_SigP	13	1	0	(O - Trypsin-like serine proteases, typically periplasmic, contain C-terminal PDZ domain) # pl:9.91 MW:53381
3	Sway_CG_Leptoll_scaff_98_GENE_10_SigP	10	0	0	hypothetical protein 1933888:1934532 forward # pl:9.80 MW:24317
3	UBA_Leptoll_Scaffold_8135_GENE_71_SigP	13	2	0	Membrane-fusion protein 73288:74412 reverse # pl:9.93 MW:41761
3	Sway_CG_Leptoll_scaff_13_GENE_57_SigP	6	0	0	hypothetical protein 633696:634211 reverse # pl:9.45 MW:19141
3	UBA_Leptoll_Scaffold_8524_GENE_216_SigP	6	0	0	Thiol-disulfide isomerase and thioredoxins 200721:201365 forward # pl:9.30 MW:23548
3	Sway_CG_Leptoll_scaff_27_GENE_13_SigP	26	0	0	hypothetical protein 989144:991072 reverse # pl:9.89 MW:71234
3	Sway_CG_Leptoll_scaff_376_GENE_6_SigP	7	4	0	hypothetical protein 2514094:2514462 reverse # pl:9.68 MW:13844
3	UBA_LeptollIII_394_29_SigP	15	1	0	(S - FOG: WD40-like repeat) # pl:10.12 MW:53843
3	Sway_CG_Leptoll_scaff_297_GENE_7_SigP	2	1	0	undefined product 93000:93377 forward # pl:6.24 MW:14033
3	UBA_Leptoll_Scaffold_7931_GENE_95_SigP	2	1	0	undefined product 93000:93377 forward # pl:6.24 MW:14033
3	Sway_CG_Leptoll_scaff_45_GENE_1_SigP	7	0	0	hypothetical protein 1327401:1327739 forward # pl:8.96 MW:11861
3	Sway_CG_Leptoll_scaff_25_GENE_41_SigP	5	0	0	hypothetical protein 909489:909848 reverse # pl:9.78 MW:13827
3	Sway_CG_Leptoll_scaff_44_GENE_17_SigP	7	1	0	malate dehydrogenase 1311610:1312572 forward # pl:6.14 MW:34712
3	UBA_Leptoll_Scaffold_8241_GENE_522_SigP	16	0	0	Parvulin-like peptidyl-prolyl isomerase 500348:501370 reverse # pl:9.50 MW:39460
3	Sway_CG_Leptoll_scaff_48_GENE_32_SigP	16	0	0	peptidyl-prolyl cis-trans isomerase 1427024:1428046 forward # pl:9.57 MW:39326
3	UBA_LeptollIII_373_5_SigP	13	0	0	(-) # pl:9.91 MW:21663
3	UBA_Leptoll_Scaffold_8062_GENE_32_SigP	16	2	0	Hypothetical protein 33721:34881 forward # pl:11.22 MW:43432
3	UBA_Leptoll_Scaffold_8524_GENE_269_SigP	9	0	0	Hypothetical protein 254042:254569 reverse # pl:11.25 MW:18589

3	UBA_LeptolI_Scaffold_8062_GENE_236_SigP	25	0	0	Hypothetical protein 244561:246489 reverse # pl:9.81 MW:71023
3	UBA_LeptolII_395_29_SigP	25	0	0	(-) # pl:9.79 MW:70443
3	UBA_LeptolI_Scaffold_8241_GENE_573_SigP	17	0	0	Hypothetical protein 558698:559924 forward # pl:9.51 MW:45232
3	UBA_LeptolI_Scaffold_8062_GENE_173_SigP	11	0	0	Cytochrome c peroxidase 179833:180849 reverse # pl:9.90 MW:37448
3	Unass_bact_scaff_920_GENE_3_SigP	13	1	0	- # Function: Hypothetical protein # pl:10.38 MW:47244
3	UBA_LeptolII_399_123_SigP	4	0	0	(-) # pl:9.93 MW:19208
3	UBA_LeptolI_Scaffold_7931_GENE_73_SigP	20	0	0	Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family 70399:71055 reverse # pl:5.78 MW:23631
3	5way_CG_LeptolI_scaff_66_GENE_6_SigP	20	0	0	peptidyl-prolyl cis-trans isomerase 1589733:1590389 reverse # pl:5.78 MW:23665
3	UBA_LeptolII_356_3_SigP	4	0	0	(-) # pl:6.60 MW:24706
3	5way_CG_LeptolI_scaff_14_GENE_50_SigP	13	0	0	cytochrome c peroxidase 690340:691356 reverse # pl:9.98 MW:37491
3	UBA_LeptolI_Scaffold_8062_GENE_328_SigP	5	1	0	Hypothetical protein 324826:325257 reverse # pl:10.44 MW:15667
3	5way_CG_LeptolI_scaff_27_GENE_41_SigP	17	1	0	hypothetical protein 1015139:1016410 forward # pl:5.94 MW:46897
3	5way_CG_LeptolI_scaff_8_GENE_36_SigP	8	0	0	thiol disulfide isomerase 534913:535557 forward # pl:6.48 MW:23606
3	5way_CG_LeptolI_scaff_43_GENE_19_SigP	29	0	0	efflux protein 1278043:1279515 forward # pl:9.29 MW:54919
3	UBA_LeptolI_Scaffold_8241_GENE_298a_SigP	10	0	0	Outer membrane protein (OmpA/MotB) 279003:279698 forward # pl:11.10 MW:25887
3	UBA_LeptolI_Scaffold_8027_GENE_31_SigP	5	1	0	Malate/lactate dehydrogenases 32641:33603 forward # pl:6.37 MW:34682
3	UBA_LeptolI_Scaffold_7931_GENE_98_SigP	11	0	0	Hypothetical protein 96019:96525 forward # pl:9.43 MW:19616
3	5way_CG_LeptolI_scaff_297_GENE_4_SigP	11	0	0	hypothetical protein 2435158:2435664 reverse # pl:9.43 MW:19616
3	5way_CG_LeptolI_scaff_94_GENE_5_SigP	12	0	0	hypothetical protein 1887499:1888050 forward # pl:10.09 MW:19933
3	5way_CG_LeptolI_scaff_120_GENE_4_SigP	11	0	0	efflux protein, CzcB 1968652:1969776 reverse # pl:9.89 MW:41685
3	UBA_LeptolII_397_16_SigP	6	0	0	(P - ABC-type molybdate transport system, periplasmic component) # pl:9.97 MW:35837
3	UBA_LeptolII_382_21_SigP	4	0	0	(S - Uncharacterized protein conserved in bacteria) # pl:9.37 MW:30574
3	5way_CG_LeptolI_scaff_42_GENE_27_SigP	5	0	0	hypothetical protein 1233635:1234360 forward # pl:9.49 MW:27054
3	5way_CG_LeptolI_scaff_2_GENE_54_SigP	6	0	0	hypothetical protein 65821:66501 forward # pl:4.47 MW:24403
3	UBA_LeptolI_Scaffold_7931_GENE_191_SigP	9	0	0	Hypothetical protein 208850:209530 forward # pl:4.58 MW:24366
3	5way_CG_LeptolI_scaff_51_GENE_20_SigP	3	0	0	hypothetical protein 1459861:1460295 reverse # pl:9.38 MW:16001
3	UBA_LeptolII_376_11_SigP	4	0	0	(-) # pl:7.90 MW:21402
3	5way_CG_LeptolI_scaff_48_GENE_7_SigP	5	0	0	hypothetical protein 1405849:1406394 reverse # pl:9.64 MW:20256
3	Unass_bact_scaff_1043_GENE_3_SigP	3	1	0	- # Function: Hypothetical protein # pl:9.28 MW:17946
3	UBA_LeptolI_Scaffold_8049_GENE_47_SigP	12	0	0	Hypothetical protein 37752:38414 reverse # pl:9.93 MW:24100
3	5way_CG_LeptolI_scaff_25_GENE_46_SigP	14	0	0	hypothetical protein 912913:913575 reverse # pl:10.04 MW:23895
3	5way_CG_LeptolI_scaff_8_GENE_58_SigP	13	0	0	cytochrome c-551 558486:558818 reverse # pl:10.02 MW:11872
3	UBA_LeptolI_Scaffold_8062_GENE_31_SigP	9	0	0	Hypothetical protein 33051:33695 forward # pl:9.77 MW:24199
3	UBA_LeptolII_394_10_SigP	3	1	0	(-) # pl:11.06 MW:18504
3	UBA_LeptolI_Scaffold_8135_GENE_81_SigP	8	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 84407:84937 reverse # pl:8.85 MW:19724
3	UBA_LeptolI_Scaffold_8049_GENE_3_SigP	8	0	0	Cbb3-type cytochrome oxidase, cytochrome c subunit 662:1192 forward # pl:8.85 MW:19724
3	5way_CG_LeptolI_scaff_25_GENE_2_SigP	8	0	0	cytochrome c oxidase, fixO subunit 876746:877276 forward # pl:8.85 MW:19724
3	5way_CG_LeptolI_scaff_120_GENE_14_SigP	8	0	0	cytochrome c oxidase, subunit II, CcoO 1979777:1980307 reverse # pl:8.85 MW:19724
3	5way_CG_LeptolI_scaff_3_GENE_6_SigP	9	0	0	hypothetical protein 141011:141709 forward # pl:11.11 MW:25800
3	UBA_LeptolI_Scaffold_8692_GENE_5_SigP	13	0	0	Hypothetical protein 4993:5544 forward # pl:10.17 MW:19972
3	UBA_LeptolI_Scaffold_8241_GENE_570_SigP	26	0	0	Outer membrane protein 555547:557019 forward # pl:9.35 MW:54952
3	UBA_LeptolI_Scaffold_8049_GENE_42a_SigP	4	0	0	Hypothetical protein 34331:34687 reverse # pl:9.86 MW:13687
3	5way_CG_LeptolI_scaff_167_GENE_7_SigP	12	0	0	hypothetical protein 2094828:2096972 reverse # pl:8.62 MW:78226
3	UBA_LeptolI_Scaffold_8241_GENE_690_SigP	29	0	0	Hypothetical protein 681251:682891 forward # pl:4.70 MW:59054
3	UBA_LeptolI_Scaffold_8241_GENE_295_SigP	5	0	0	Hypothetical protein 274121:274495 forward # pl:9.10 MW:13221
3	UBA_LeptolII_382_13_SigP	7	0	0	(-) # pl:9.79 MW:36778
3	UBA_LeptolII_399_64_SigP	2	0	0	(-) # pl:9.80 MW:25377
3	5way_CG_LeptolI_scaff_4_GENE_2_SigP	10	1	0	cation efflux protein 241937:243079 forward # pl:8.48 MW:42084
3	5way_CG_LeptolI_scaff_30_GENE_22_SigP	18	0	0	hypothetical protein 1051620:1053815 forward # pl:9.78 MW:84204
3	UBA_LeptolI_Scaffold_8692_GENE_133_SigP	6	0	0	Hypothetical protein 127591:128046 forward # pl:9.36 MW:16779
3	5way_CG_LeptolI_scaff_271_GENE_7_SigP	6	0	0	hypothetical protein 2363290:2363745 forward # pl:9.40 MW:16789
3	UBA_LeptolI_Scaffold_8241_GENE_256_SigP	7	0	0	Hypothetical protein 241268:241888 reverse # pl:10.64 MW:22967
3	5way_CG_LeptolI_scaff_59_GENE_28_SigP	7	0	0	hypothetical protein 1554663:1555283 forward # pl:10.76 MW:22906
3	UBA_LeptolII_328_11_SigP	11	0	0	(M - Outer membrane protein and related peptidoglycan-associated (lipo)proteins) # pl:9.65 MW:18910
3	UBA_LeptolII_374_3_SigP	5	0	0	(O - Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin family) # pl:6.28 MW:23245
3	UBA_LeptolI_Scaffold_8049_GENE_375_SigP	2	0	0	undefined product 357444:357965 forward # pl:9.75 MW:19619
3	5way_CG_LeptolI_scaff_45_GENE_7_SigP	2	0	0	hypothetical protein 1332494:1333015 reverse # pl:9.58 MW:19637
3	UBA_LeptolI_Scaffold_8062_GENE_268_SigP	5	0	0	Hypothetical protein 274747:275208 reverse # pl:9.73 MW:17490
3	UBA_LeptolII_395_61_SigP	5	0	0	(-) # pl:9.73 MW:17490
3	5way_CG_LeptolI_scaff_265_GENE_14_SigP	5	0	0	hypothetical protein 2356506:2356967 reverse # pl:9.73 MW:17490
3	5way_CG_LeptolI_scaff_4_GENE_7_SigP	5	0	0	hypothetical protein 248229:249083 forward # pl:9.11 MW:32330
3	5way_CG_LeptolI_scaff_30_GENE_28_SigP	10	0	0	hypothetical protein 1056860:1057714 reverse # pl:8.97 MW:31900
3	5way_CG_LeptolI_scaff_32_GENE_52_SigP	9	0	0	outer membrane efflux protein 1122927:1124345 forward # pl:9.60 MW:52943
3	UBA_LeptolII_353_2_SigP	4	0	0	(-) # pl:9.33 MW:31803
3	5way_CG_LeptolI_scaff_473_GENE_6_SigP	6	0	0	hypothetical protein 2604173:2604670 reverse # pl:10.24 MW:18719
3	UBA_LeptolI_Scaffold_7931_GENE_383_SigP	5	0	0	undefined product 441204:441656 forward # pl:7.12 MW:15956
3	5way_CG_LeptolI_scaff_41_GENE_9_SigP	5	0	0	hypothetical protein 1181714:1182166 reverse # pl:7.84 MW:15936
3	gpl_scaff_198_GENE_2_SigP	6	0	0	# Gene_name: FixC # Function: Dehydrogenases (flavoproteins) # e-36 # pl:6.27 MW:44603
3	UBA_LeptolI_Scaffold_8524_GENE_127_SigP	15	0	0	Outer membrane protein/protective antigen OMA87 114756:117101 forward # pl:9.38 MW:87643

3	5way_CG_LeptolI_scaff_6_GENE_20_SigP	15	0	0	hypothetical protein 354304:356649 reverse # pl:9.40 MW:87637
3	UBA_LeptolI_Scaffold_8049_GENE_321_SigP	3	0	0	Hypothetical protein 311829:312233 forward # pl:9.92 MW:13785
3	5way_CG_LeptolI_scaff_178_GENE_9_SigP	3	0	0	hypothetical protein 2162891:2163295 forward # pl:9.92 MW:13785
3	Unass_bact_scaff_1152_GENE_4_SigP	2	0	0	- # Function: Hypothetical protein # pl:4.54 MW:27258
3	UBA_LeptolIII_394_7_SigP	2	0	0	(-) # pl:4.70 MW:28104
3	UBA_LeptolI_Scaffold_8692_GENE_161_SigP	11	0	0	Hypothetical protein 158108:159559 reverse # pl:10.11 MW:49322
3	UBA_LeptolIII_390_44_SigP	48	1	0	(-) # pl:7.72 MW:17434
3	5way_CG_LeptolI_scaff_22_GENE_28_SigP	2	0	0	hypothetical protein 794184:794561 reverse # pl:10.83 MW:14375
3	5way_CG_LeptolI_scaff_62_GENE_5_SigP	3	0	0	hypothetical protein 1560383:1561324 forward # pl:8.96 MW:35059
3	UBA_LeptolI_Scaffold_8241_GENE_253_SigP	8	1	0	Putative secretion protein (HlyD) 238386:239528 reverse # pl:7.85 MW:42147
3	5way_CG_LeptolI_scaff_66_GENE_9_SigP	3	0	0	hypothetical protein 1593933:1594931 forward # pl:5.00 MW:36982
3	UBA_LeptolI_Scaffold_8027_GENE_55_SigP	4	0	0	FOG 55616:56380 forward # pl:9.75 MW:29641
3	5way_CG_LeptolI_scaff_96_GENE_12_SigP	4	0	0	cell division cycle protein Cdc57 1914159:1914923 forward # pl:9.77 MW:29635
3	5way_CG_LeptolI_scaff_96_GENE_6_SigP	8	3	0	periplasmic TolB protein 1907098:1908441 forward # pl:9.38 MW:50036
3	UBA_LeptolI_Scaffold_8027_GENE_49_SigP	8	3	0	Periplasmic component of the Tol biopolymer trans port system 48552:49895 forward # pl:9.05 MW:50054
3	5way_CG_LeptolI_scaff_287_GENE_4_SigP	2	1	0	hypothetical protein 2399359:2399979 reverse # pl:8.69 MW:22528
3	5way_CG_LeptolI_scaff_32_GENE_15_SigP	5	0	0	hypothetical protein 1087013:1087738 forward # pl:7.91 MW:25653
3	UBA_LeptolIII_361_10_SigP	10	0	1	(-) # pl:9.57 MW:54911
3	UBA_LeptolI_Scaffold_8241_GENE_236_SigP	5	0	0	Hypothetical protein 222404:222958 reverse # pl:4.76 MW:19571
3	5way_CG_LeptolI_scaff_4_GENE_18_SigP	5	0	0	hypothetical protein 258509:259063 forward # pl:4.82 MW:19679
3	UBA_LeptolI_Scaffold_8692_GENE_49_SigP	18	0	0	FOG 51650:53845 reverse # pl:9.71 MW:84153
3	UBA_LeptolIII_334_5_SigP	5	0	0	(-) # pl:10.11 MW:31964
3	UBA_LeptolI_Scaffold_8692_GENE_45_SigP	9	0	0	Hypothetical protein 47750:48604 forward # pl:8.96 MW:31844
3	UBA_LeptolI_Scaffold_7931_GENE_16_SigP	5	0	0	Hypothetical protein 12313:12933 reverse # pl:9.26 MW:23588
3	5way_CG_LeptolI_scaff_428_GENE_6_SigP	5	0	0	hypothetical protein 2557294:2557914 reverse # pl:9.26 MW:23588
3	UBA_LeptolIII_361_9_SigP	4	0	0	(-) # pl:9.43 MW:25462
3	5way_CG_LeptolI_scaff_167_GENE_10_SigP	16	0	0	N-acetyl amidase 2097720:2099033 forward # pl:10.55 MW:48666
3	UBA_LeptolIII_399_94_SigP	7	0	0	(-) # pl:4.49 MW:57767
3	5way_CG_LeptolI_scaff_32_GENE_24_SigP	26	0	0	hypothetical protein 1095187:1095858 forward # pl:4.69 MW:23690
3	UBA_LeptolIII_394_36_SigP	4	0	0	(-) # pl:6.54 MW:55063
3	UBA_LeptolIII_399_67_SigP	2	0	0	(-) # pl:4.43 MW:20384
3	UBA_LeptolI_Scaffold_8241_GENE_642a_SigP	2	0	0	Hypothetical protein 625625:626248 forward # pl:10.08 MW:22990
3	UBA_LeptolI_Scaffold_8241_GENE_21_SigP	7	0	0	Putative phospholipid binding protein 18471:19037 reverse # pl:9.81 MW:20481
3	5way_CG_LeptolI_scaff_42_GENE_24_SigP	7	0	0	phospholipid binding protein 1231067:1231633 reverse # pl:9.76 MW:20276
3	UBA_LeptolI_Scaffold_8241_GENE_610_SigP	2	0	0	Thiol-disulfide isomerase and thioredoxins 593866:594381 forward # pl:9.26 MW:19154
3	5way_CG_LeptolI_scaff_4_GENE_72_SigP	2	0	0	hypothetical protein 308514:308972 forward # pl:10.89 MW:16719
3	UBA_LeptolIII_398_147_SigP	6	0	0	(-) # pl:4.21 MW:48475
3	UBA_LeptolIII_376_20_SigP	6	0	0	(-) # pl:4.42 MW:51488
3	5way_CG_LeptolI_scaff_96_GENE_5_SigP	2	0	0	hypothetical protein 1906272:1907108 forward # pl:11.31 MW:30636
3	5way_CG_LeptolI_scaff_41_GENE_29_SigP	2	0	0	bacterioferritin comigratory protein/peroxiredoxin 1204208:1204783 reverse # pl:9.67 MW:21373
3	UBA_LeptolI_Scaffold_7931_GENE_363_SigP	2	0	0	Peroxiredoxin 418582:419157 forward # pl:9.67 MW:21131
3	5way_CG_LeptolI_scaff_6_GENE_46_SigP	9	0	0	efflux protein 378052:379446 reverse # pl:9.11 MW:51904
3	UBA_LeptolI_Scaffold_8524_GENE_101_SigP	9	0	0	Outer membrane protein 90394:91788 forward # pl:8.88 MW:51763
3	UBA_LeptolI_Scaffold_8692_GENE_75_SigP	12	0	0	undefined product 77280:79109 reverse # pl:9.62 MW:68974
3	UBA_LeptolIII_384_28_SigP	3	0	0	(C - Malate/lactate dehydrogenases) # pl:6.34 MW:34591
3	5way_CG_LeptolI_scaff_69_GENE_29_SigP	3	0	0	hypothetical protein 1690146:1690733 forward # pl:6.65 MW:21276
3	Unass_bact_scaff_1134_GENE_1_SigP	2	0	0	- # Function: Hypothetical protein # pl:9.69 MW:13731
3	5way_CG_LeptolI_scaff_4_GENE_43_SigP	2	0	0	hypothetical protein 282883:283392 forward # pl:10.61 MW:19340
3	UBA_LeptolIII_377_1_SigP	7	0	0	(-) # pl:4.34 MW:22342
3	UBA_LeptolI_Scaffold_8241_GENE_544_SigP	5	0	0	Hypothetical protein 522023:522568 forward # pl:9.54 MW:20235
3	UBA_LeptolI_Scaffold_8241_GENE_79_SigP	3	0	0	Hypothetical protein 78556:79164 reverse # pl:9.58 MW:21627
3	UBA_LeptolI_Scaffold_8049_GENE_42_SigP	3	0	0	Periplasmic serine proteases (ClpP class) 33372:34367 forward # pl:9.68 MW:36108
3	5way_CG_LeptolI_scaff_3_GENE_101_SigP	2	0	0	hypothetical protein 235037:235543 forward # pl:10.62 MW:18410
3	UBA_LeptolIII_397_88_SigP	2	0	0	(N - Flagellar basal-body P-ring protein) # pl:10.90 MW:37210
3	UBA_LeptolIII_395_59_SigP	2	0	0	(-) # pl:9.43 MW:19080
3	UBA_LeptolI_Scaffold_7931_GENE_377_SigP	3	0	0	undefined product 432399:433847 forward # pl:4.30 MW:52721
3	5way_CG_LeptolI_scaff_41_GENE_16_SigP	3	0	0	hypothetical protein 1189524:1190972 reverse # pl:4.22 MW:52723
3	5way_CG_LeptolI_scaff_183_GENE_6_SigP	2	0	0	hypothetical protein 2174071:2174934 forward # pl:9.26 MW:31876
3	UBA_LeptolI_Scaffold_7931_GENE_76_SigP	2	0	0	undefined product 74592:75590 forward # pl:4.92 MW:36775
3	UBA_LeptolI_Scaffold_7931_GENE_123_SigP	2	0	0	Cytochrome c 128461:129270 forward # pl:9.68 MW:29622
3	5way_CG_LeptolI_scaff_46_GENE_28_SigP	2	0	0	cytochrome c 1396147:1396956 forward # pl:9.68 MW:29622
3	UBA_LeptolIII_317_6_SigP	4	0	0	(C - Pyruvate:ferredoxin oxidoreductase and related 2-oxoacid:ferredoxin oxidoreductases, gamma subunit) # pl:8.83 MW:25186
3	UBA_LeptolI_Scaffold_8241_GENE_149_SigP	66	1	0	Hypothetical protein 142771:144387 reverse # pl:4.57 MW:58049
3	fer2_scaff_12_GENE_37_SigP	3	0	0	- # Function: Hypothetical protein # pl:8.94 MW:32472
3	UBA_LeptolI_Scaffold_7931_GENE_128_SigP	5	0	0	Type II secretory pathway, component PulD 133331:134998 forward # pl:9.57 MW:59267
3	5way_CG_LeptolI_scaff_186_GENE_4_SigP	5	0	0	general secretion pathway GspD 2193892:2195559 forward # pl:9.57 MW:59267
3	UBA_LeptolI_Scaffold_8241_GENE_524_SigP	3	0	0	Parvulin-like peptidyl-prolyl isomerase 502388:503257 reverse # pl:9.96 MW:32363
3	UBA_LeptolIII_393_44_SigP	3	0	0	(-) # pl:9.02 MW:37913
3	UBA_LeptolI_Scaffold_8027_GENE_48a_SigP	2	0	0	Hypothetical protein 47726:48559 forward # pl:11.68 MW:30762

3	UBA_LeptolIII_396_5_SigP	2	0	0	(C - Cytochrome c) # pl:9.57 MW:30607
3	UBA_LeptolIII_399_159_SigP	8	0	0	(-) # pl:9.62 MW:23985
3	UBA_LeptolII_Scaffold_8241_GENE_469_SigP	4	0	0	ABC-type phosphate transport system, periplasmic component 448433:449527 reverse # pl:9.99 MW:39896
3	5way_CG_LeptolII_scaff_30_GENE_12_SigP	3	0	0	outer membrane efflux protein 1042734:1044158 forward # pl:6.61 MW:52107
3	5way_CG_LeptolII_scaff_3_GENE_47_SigP	2	0	0	peptidase, M23/M37 family 183484:184374 reverse # pl:10.45 MW:32357
3	UBA_LeptolIII_398_120_SigP	2	0	0	(-) # pl:9.55 MW:20727
3	Unass_arch_scaff_986_GENE_2_SigP	4	0	0	# Gene_name: UgpB # Function: Sugar-binding periplasmic proteins/domains # e-47 # pl:5.75 MW:51639
3	5way_CG_LeptolII_scaff_22_GENE_30_SigP	3	0	0	cellulase 797157:798257 reverse # pl:9.98 MW:41939
3	fer1_scaff_58_GENE_10_SigP	2	0	0	# Gene_name: Mdh # Function: Malate/lactate dehydrogenases # e-123 # pl:5.75 MW:34719
3	5way_CG_LeptolII_scaff_53_GENE_11_SigP	3	0	0	hypothetical protein 1475234:1476562 reverse # pl:9.99 MW:49997
3	5way_CG_LeptolII_scaff_22_GENE_33_SigP	8	0	0	cellulose synthase, subunit c: cleaves diGMP synthase 802595:805489 reverse # pl:9.65 MW:108797
3	UBA_LeptolII_Scaffold_8135_GENE_5_SigP	2	0	0	FOG 3195:4136 forward # pl:9.10 MW:34971
3	5way_CG_LeptolII_scaff_21_GENE_25_SigP	4	0	0	hypothetical protein 735291:736745 reverse # pl:7.80 MW:53899
3	UBA_LeptolII_Scaffold_8062_GENE_258_SigP	2	0	0	Hypothetical protein 266641:267096 forward # pl:10.18 MW:17026
3	UBA_LeptolIII_395_51_SigP	2	0	0	(-) # pl:10.18 MW:17026
3	5way_CG_LeptolII_scaff_27_GENE_35_SigP	2	0	0	hypothetical protein 1011242:1011697 forward # pl:10.11 MW:17026
3	fer2_scaff_93_GENE_14_SigP	2	0	0	# Gene_name: MarC # Function: Integral membrane proteins of the MarC family # e-48 # pl:8.96 MW:22568
3	5way_CG_LeptolII_scaff_53_GENE_26_SigP	5	0	0	hypothetical protein 1495267:1496724 reverse # pl:10.11 MW:49724
3	UBA_LeptolII_Scaffold_8062_GENE_264_SigP	5	0	0	undefined product 270540:271802 forward # pl:5.82 MW:46323
3	UBA_LeptolIII_395_57_SigP	5	0	0	(-) # pl:5.82 MW:46323
3	UBA_LeptolII_Scaffold_8241_GENE_381_SigP	2	0	0	DNA uptake lipoprotein 359495:360226 reverse # pl:9.91 MW:28875
3	5way_CG_LeptolII_scaff_3_GENE_90_SigP	2	0	0	competence protein ComL 223253:223984 reverse # pl:9.91 MW:28824
3	UBA_LeptolII_Scaffold_7931_GENE_347_SigP	2	0	0	Hypothetical protein 402145:403218 reverse # pl:8.65 MW:39325
3	5way_CG_LeptolII_scaff_86_GENE_17_SigP	2	0	0	hypothetical protein 1859523:1860593 reverse # pl:9.14 MW:39110
3	UBA_LeptolII_Scaffold_8692_GENE_147_SigP	3	0	0	Hypothetical protein 137672:139000 reverse # pl:9.78 MW:49746
3	UBA_LeptolII_Scaffold_7931_GENE_122_SigP	2	0	0	Cytochrome c 127587:128396 forward # pl:9.97 MW:29736
3	5way_CG_LeptolII_scaff_46_GENE_27_SigP	2	0	0	cytochrome c 1395273:1396082 forward # pl:9.97 MW:29736
3	UBA_LeptolII_Scaffold_8135_GENE_4_SigP	2	0	0	undefined product 2284:3198 forward # pl:9.73 MW:33942
3	5way_CG_LeptolII_scaff_62_GENE_4_SigP	2	0	0	ABC transporter periplasmic substrate binding protein 1559472:1560386 forward # pl:9.73 MW:33911
3	UBA_LeptolIII_394_52_SigP	3	0	0	(R - Predicted Zn-dependent peptidases) # pl:9.47 MW:53554
3	UBA_LeptolII_Scaffold_7931_GENE_311_SigP	4	0	0	FOG 348657:351887 forward # pl:9.10 MW:118365
3	UBA_LeptolIII_374_9_SigP	2	0	0	(R - Uncharacterized NAD(FAD)-dependent dehydrogenases) # pl:8.31 MW:42014
3	UBA_LeptolII_Scaffold_8062_GENE_114_SigP	3	0	0	Outer membrane receptor for Fe3+-dicitrate 108626:111550 forward # pl:5.10 MW:104983
3	5way_CG_LeptolII_scaff_51_GENE_24_SigP	4	0	0	TonB-dependent receptor 1462305:1465229 reverse # pl:5.09 MW:104765
3	UBA_LeptolII_Scaffold_8062_GENE_44_SigP	2	0	0	Hypothetical protein 44570:45088 forward # pl:11.13 MW:19316
3	UBA_LeptolIII_388_7_SigP	2	0	0	(O - Parvulin-like peptidyl-prolyl isomerase) # pl:9.83 MW:31994
3	UBA_LeptolII_Scaffold_8241_GENE_254_SigP	2	0	0	Outer membrane efflux protein 239540:240916 reverse # pl:8.91 MW:51398
3	5way_CG_LeptolII_scaff_59_GENE_29_SigP	2	0	0	outer membrane efflux protein 1555634:1557010 forward # pl:8.91 MW:51472
3	UBA_LeptolII_Scaffold_8062_GENE_245_SigP	4	0	0	Hypothetical protein 253388:254131 forward # pl:4.55 MW:26029
3	UBA_LeptolIII_395_38_SigP	4	0	0	(-) # pl:4.55 MW:26029
3	5way_CG_LeptolII_scaff_27_GENE_22_SigP	4	0	0	hypothetical protein 997984:998727 forward # pl:4.75 MW:25979
3	5way_CG_LeptolII_scaff_2_GENE_44_SigP	3	0	0	soluble lytic transglycosylase 48347:50407 reverse # pl:10.33 MW:77488
3	UBA_LeptolII_Scaffold_8692_GENE_61_SigP	2	0	0	Outer membrane protein 61581:63005 reverse # pl:8.50 MW:52169
3	UBA_LeptolII_Scaffold_8241_GENE_55_SigP	2	0	0	Conserved hypothetical protein 53795:55249 reverse # pl:8.85 MW:54208
3	UBA_LeptolIII_390_31_SigP	2	0	0	(N - Methyl-accepting chemotaxis protein) # pl:6.86 MW:60789
3	fer1_scaff_300_GENE_5_SigP	2	0	0	# Gene_name: FadB # Function: 3-Hydroxyacyl-CoA dehydrogenase # e-118 # pl:5.47 MW:71148
3	5way_CG_LeptolII_scaff_53_GENE_17_SigP	2	0	0	hypothetical protein 1482065:1483813 reverse # pl:10.58 MW:67070
3	UBA_LeptolIII_398_127_SigP	4	0	0	(M - Outer membrane protein) # pl:9.46 MW:53453
3	UBA_LeptolII_Scaffold_8692_GENE_152a_SigP	2	0	0	Hypothetical protein 144506:146251 reverse # pl:10.50 MW:66356
3	5way_CG_LeptolII_scaff_4_GENE_32_SigP	2	0	0	hypothetical protein 271575:273734 forward # pl:10.25 MW:82156
3	UBA_LeptolII_Scaffold_7931_GENE_176_SigP	3	0	0	Predicted HD superfamily hydrolase 187397:188962 reverse # pl:6.12 MW:58581
3	UBA_LeptolIII_391_22_SigP	2	0	0	(R - FOG: TPR repeat) # pl:8.84 MW:118396
3	UBA_LeptolII_Scaffold_8241_GENE_222_SigP	2	0	0	Conserved hypothetical protein 207736:209895 reverse # pl:10.15 MW:82415

Pfam Domain/Motif Results of Highly Conserved and Confident Signal Peptide Cleaved Protein Identifications

<u>Protein Name</u>	<u>Start #</u>	<u>End #</u>	<u>Pfam Acc #</u>	<u>Hmm Start</u>	<u>Hmm End</u>	<u>Bit score</u>	<u>E-value</u>	<u>Pfam ID</u>
5wayCG_Leptoll_Contig_10961_GENE_20_SigP	68	92	PF04995.5	22	46	5.4	0.69	CcmD
5wayCG_Leptoll_Contig_11111_GENE_93_SigP	118	134	PF01177.13	237	254	5	0.62	Asp_Glu_race
5wayCG_Leptoll_Contig_11111_GENE_93_SigP	144	166	PF08975.1	102	129	4.8	0.72	DUF1868
5wayCG_Leptoll_Contig_11184_GENE_47_SigP	28	48	PF04935.3	210	230	3.3	0.88	SURF6
5wayCG_Leptoll_Contig_11216_GENE_10_SigP	92	105	PF03294.5	1	14	1.3	0.91	Pox_Rap94
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	86	115	PF08450.3	161	190	23.2	2.60E-06	SGL
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	137	165	PF01436.12	1	30	30.6	5.90E-06	NHL
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	25	52	PF01436.12	1	30	26.9	7.50E-05	NHL
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	195	223	PF01436.12	1	30	20.1	0.0084	NHL
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	252	278	PF01436.12	1	30	12.3	0.58	NHL
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	144	154	PF03176.6	1	11	6.1	0.65	MMPL
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	142	155	PF05787.4	696	709	1	0.72	DUF839
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	321	337	PF00148.10	449	465	1.8	0.81	Oxidored_nitro
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	188	223	PF00092.19	151	195	3	0.83	VWA
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	88	97	PF03176.6	1	10	4	2.3	MMPL
5wayCG_Leptoll_Contig_11233_GENE_46_SigP	312	338	PF01436.12	1	30	4.5	5	NHL
5wayCG_Leptoll_Contig_11238_GENE_58_SigP	13	177	PF00160.12	1	178	209.3	9.00E-60	Pro_isomerase
5wayCG_Leptoll_Contig_11238_GENE_99_SigP	150	233	PF00034.12	1	114	22.9	0.0012	Cytochrom_C
5wayCG_Leptoll_Contig_11238_GENE_99_SigP	88	98	PF08976.2	112	122	3.8	0.079	DUF1880
5wayCG_Leptoll_Contig_11238_GENE_99_SigP	12	21	PF01307.8	1	10	3.3	0.87	Plant_vir_prot
5wayCG_Leptoll_Contig_11277_GENE_93_SigP	3	86	PF08922.2	1	102	-25.5	0.92	DUF1905
5wayCG_Leptoll_Contig_11391_GENE_14_SigP	13	178	PF04264.4	1	191	190	5.90E-54	Ycel
UBA_Leptoll_Scaffold_7931_GENE_111_SigP	150	233	PF00034.12	1	114	22.9	0.0012	Cytochrom_C
UBA_Leptoll_Scaffold_7931_GENE_111_SigP	88	98	PF08976.2	112	122	3.8	0.079	DUF1880
UBA_Leptoll_Scaffold_7931_GENE_111_SigP	12	21	PF01307.8	1	10	3.3	0.87	Plant_vir_prot
UBA_Leptoll_Scaffold_7931_GENE_338_SigP	69	104	PF08238.3	1	58	43.1	9.60E-10	Sel1
UBA_Leptoll_Scaffold_7931_GENE_338_SigP	177	212	PF08238.3	1	58	38.2	2.90E-08	Sel1
UBA_Leptoll_Scaffold_7931_GENE_338_SigP	141	176	PF08238.3	1	58	36.5	9.30E-08	Sel1
UBA_Leptoll_Scaffold_7931_GENE_338_SigP	105	140	PF08238.3	1	58	30.3	6.80E-06	Sel1
UBA_Leptoll_Scaffold_7931_GENE_338_SigP	33	68	PF08238.3	1	58	25.6	0.00018	Sel1
UBA_Leptoll_Scaffold_7931_GENE_338_SigP	213	248	PF08238.3	1	58	22.1	0.002	Sel1
UBA_Leptoll_Scaffold_7931_GENE_73_SigP	13	177	PF00160.12	1	178	209.3	9.00E-60	Pro_isomerase
UBA_Leptoll_Scaffold_8049_GENE_366_SigP	14	179	PF04264.4	1	191	187.3	3.90E-53	Ycel
UBA_Leptoll_Scaffold_8049_GENE_83_SigP	92	112	PF05998.2	1	21	5	0.38	HP_FlgM
UBA_Leptoll_Scaffold_8062_GENE_147_SigP	32	118	PF00034.12	1	114	2.8	0.12	Cytochrom_C
UBA_Leptoll_Scaffold_8062_GENE_151_SigP	101	179	PF09089.1	1	81	-23.8	0.83	gp12-short_mid
UBA_Leptoll_Scaffold_8062_GENE_151_SigP	162	176	PF06966.3	179	194	3.6	0.93	DUF1295
UBA_Leptoll_Scaffold_8062_GENE_173_SigP	1	171	PF03150.5	1	208	272.3	9.70E-79	CCP_MauG
UBA_Leptoll_Scaffold_8062_GENE_173_SigP	280	297	PF06537.2	449	466	3.3	0.33	DUF1111
UBA_Leptoll_Scaffold_8062_GENE_32_SigP	66	75	PF00543.13	95	104	5.4	0.15	P-II
UBA_Leptoll_Scaffold_8062_GENE_372_SigP	32	118	PF00034.12	1	114	-5.5	0.76	Cytochrom_C
UBA_Leptoll_Scaffold_8062_GENE_53_SigP	29	67	PF00170.12	26	64	5.8	0.66	bZIP_1

UBA_Leptoll_Scaffold_8135_GENE_71_SigP	65	87	PF00364.13	53	75	12.2	0.014	Biotin_lipoyl
UBA_Leptoll_Scaffold_8135_GENE_71_SigP	22	52	PF06486.2	1	37	5.7	0.3	DUF1093
UBA_Leptoll_Scaffold_8135_GENE_71_SigP	170	183	PF00364.13	62	75	3.6	3.3	Biotin_lipoyl
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	101	130	PF08450.3	161	190	25.1	8.20E-07	SGL
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	152	180	PF01436.12	1	30	30.6	5.90E-06	NHL
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	25	52	PF01436.12	1	30	27.1	6.40E-05	NHL
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	210	238	PF01436.12	1	30	20.1	0.0084	NHL
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	267	293	PF01436.12	1	30	12.3	0.58	NHL
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	107	135	PF06840.2	184	212	3.7	0.63	DUF1241
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	103	113	PF03176.6	1	11	6.1	0.65	MMPL
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	159	169	PF03176.6	1	11	6.1	0.65	MMPL
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	157	170	PF05787.4	696	709	1	0.72	DUF839
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	203	238	PF00092.19	151	195	3	0.83	VWA
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	101	114	PF05787.4	696	709	0.3	1.2	DUF839
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	327	353	PF01436.12	1	30	8.6	1.6	NHL
UBA_Leptoll_Scaffold_8135_GENE_9_SigP	163	191	PF06840.2	184	212	0.4	5.5	DUF1241
UBA_Leptoll_Scaffold_8241_GENE_153_SigP	78	84	PF03792.4	203	209	3.5	0.54	PBC
UBA_Leptoll_Scaffold_8241_GENE_153_SigP	40	54	PF02787.10	69	83	2.2	0.56	CPSase_L_D3
UBA_Leptoll_Scaffold_8241_GENE_153_SigP	39	61	PF07813.3	1	23	8.4	1.8	LTXXQ
UBA_Leptoll_Scaffold_8241_GENE_153_SigP	115	137	PF07813.3	1	23	4.1	7.9	LTXXQ
UBA_Leptoll_Scaffold_8241_GENE_297_SigP	27	48	PF04935.3	209	230	4.9	0.27	SURF6
UBA_Leptoll_Scaffold_8241_GENE_298_SigP	40	139	PF00691.11	1	102	92.5	1.30E-24	OmpA
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	254	292	PF01011.12	1	37	26.9	7.40E-05	PQQ
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	107	144	PF01011.12	1	37	26.3	0.00012	PQQ
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	213	250	PF01011.12	1	37	26	0.00014	PQQ
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	399	435	PF01011.12	1	37	19.5	0.013	PQQ
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	436	453	PF00089.17	1	20	7.6	0.031	Trypsin
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	314	349	PF01011.12	1	37	16	0.1	PQQ
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	2	20	PF06756.2	51	69	7.2	0.21	S19
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	412	421	PF02438.7	615	624	3.8	0.26	Adeno_100
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	270	278	PF08283.2	102	110	4	0.55	Gemini_AL1_M
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	316	337	PF03413.10	48	68	4.8	1.9	PepSY
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	178	210	PF01011.12	1	37	6.7	2	PQQ
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	323	335	PF08283.2	98	110	1.4	4.6	Gemini_AL1_M
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	358	396	PF01011.12	1	37	3.7	5.2	PQQ
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	123	130	PF08283.2	103	110	0.7	7.7	Gemini_AL1_M
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	267	280	PF03413.10	55	68	1.7	13	PepSY
UBA_Leptoll_Scaffold_8241_GENE_348_SigP	410	423	PF03413.10	55	68	0.2	34	PepSY
UBA_Leptoll_Scaffold_8241_GENE_522_SigP	66	145	PF09312.2	59	137	52.9	3.90E-16	SurA_N
UBA_Leptoll_Scaffold_8241_GENE_522_SigP	163	256	PF00639.12	1	109	38.8	2.00E-08	Rotamase
UBA_Leptoll_Scaffold_8241_GENE_522_SigP	5	26	PF09312.2	1	22	12.8	0.0014	SurA_N
UBA_Leptoll_Scaffold_8241_GENE_522_SigP	181	193	PF00935.10	1	13	6	0.43	Ribosomal_L44
UBA_Leptoll_Scaffold_8241_GENE_522_SigP	83	114	PF00165.14	17	49	6.1	0.47	HTH_AraC
UBA_Leptoll_Scaffold_8241_GENE_522_SigP	56	73	PF07710.2	29	46	5.7	0.74	P53_tetramer
UBA_Leptoll_Scaffold_8241_GENE_522_SigP	77	89	PF08775.1	117	129	4.3	0.76	ParB
UBA_Leptoll_Scaffold_8241_GENE_573_SigP	118	134	PF01177.13	237	254	5	0.62	Asp_Glu_race

UBA_Leptoll_Scaffold_8241_GENE_573_SigP	144	166	PF08975.1	102	129	4.8	0.72	DUF1868
UBA_Leptoll_Scaffold_8241_GENE_693_SigP	1	156	PF01547.16	56	247	14.9	0.0007	SBP_bac_1
UBA_Leptoll_Scaffold_8241_GENE_693_SigP	122	141	PF07903.2	104	123	3.5	0.44	PaRep2a
UBA_Leptoll_Scaffold_8241_GENE_81_SigP	3	86	PF08922.2	1	102	-25.5	0.92	DUF1905
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	432	748	PF01103.14	1	356	129.7	8.70E-36	Bac_surface_Ag
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	252	330	PF07244.6	1	84	84.2	4.20E-22	Surf_Ag_VNR
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	333	405	PF07244.6	1	84	70.6	5.20E-18	Surf_Ag_VNR
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	8	79	PF07244.6	1	84	59.6	1.10E-14	Surf_Ag_VNR
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	160	249	PF07244.6	1	84	56.9	7.10E-14	Surf_Ag_VNR
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	80	157	PF07244.6	1	84	52	2.00E-12	Surf_Ag_VNR
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	269	295	PF00179.17	1	40	7.3	0.13	UQ_con
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	573	588	PF07588.2	160	175	4.4	0.42	DUF1554
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	368	376	PF07767.2	450	458	2.1	0.5	Nop53
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	69	85	PF04900.3	87	103	6.1	0.52	Fcf1
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	37	123	PF01974.8	1	95	-40.9	0.54	tRNA_int_endo
UBA_Leptoll_Scaffold_8524_GENE_127_SigP	203	224	PF04433.8	75	95	5.3	0.74	SWIRM
UBA_Leptoll_Scaffold_8524_GENE_128_SigP	1	159	PF03938.5	1	168	70.2	6.80E-18	OmpH
UBA_Leptoll_Scaffold_8524_GENE_128_SigP	6	24	PF04699.5	80	98	4.6	0.84	P16-Arc
UBA_Leptoll_Scaffold_8524_GENE_180_SigP	39	90	PF01471.9	5	66	45.2	5.30E-12	PG_binding_1
UBA_Leptoll_Scaffold_8524_GENE_248_SigP	30	60	PF04212.9	1	31	8.9	0.13	MIT
UBA_Leptoll_Scaffold_8524_GENE_248_SigP	62	93	PF08647.2	57	88	7.9	0.14	BRE1
UBA_Leptoll_Scaffold_8524_GENE_249_SigP	129	224	PF00691.11	1	102	152.6	1.10E-42	OmpA
UBA_Leptoll_Scaffold_8524_GENE_249_SigP	62	76	PF03398.5	1	15	6.3	0.42	DUF292
UBA_LeptolIII_Contig_7952_GENE_72_SigP	13	178	PF04264.4	1	191	205.8	1.00E-58	Ycel
UBA_LeptolIII_Contig_7952_GENE_72_SigP	17	33	PF01642.13	93	109	4.2	0.33	MM_CoA_mutase
UBA_LeptolIII_Contig_7952_GENE_72_SigP	8	33	PF07940.4	1	31	5.4	0.49	Hepar_II_III