

Online Supplementary Materials B. Accession numbers of the 3,160 membrane proteins^a in the testing dataset classified into 6 different types (see Fig.1)

(1) 462 type 1 membrane proteins (8.34%)^b

Q07008	Q95209	P49446	P10586	P15292	P23504	P16952	P28827	P28828	Q02167
P27655	P24413	Q05909	P97523	P06213	P15208	P11224	P11225	P53767	P52583
P35968	O08775	P35916	P35917	Q15303	P09470	P12822	Q64716	Q60553	P70424
P13388	Q60528	Q02496	P07522	Q62638	Q62959	P05555	Q06806	Q06807	Q02763
Q02858	P13591	P13596	P16170	P36335	O15394	O35136	Q02846	P52785	P51840
O02740	P51841	P51842	P51839	P16234	P26618	P20786	P26619	P55204	P23897
Q62470	P18910	P55202	P46197	P20594	P16067	P21709	P29317	Q03145	O13146
Q07496	P54764	Q03137	P54755	O42422	Q15375	Q61772	P29322	O09127	P54762
P09759	P28693	P54753	P54754	Q91735	P54760	P54761	Q07497	O15197	O08644
Q06274	P26009	P26008	P43406	Q91687	Q13797	Q9QUM0	P29319	O08680	P80560
Q63475	P57097	P30530	Q00993	Q60673	Q00495	O97799	Q28317	Q08156	Q28889
P10721	P05532	Q01974	Q9P0K1	Q9R1V6	P97333	Q9QWJ9	P28824	O35375	O35276
Q60625	Q28730	P40190	P15116	Q9Z1Y3	P24503	P39038	P55291	P33146	P20310
P35950	P01130	P35951	P35952	P98165	P98155	P98156	P35953	P55849	Q02487
Q28060	Q14574	P55850	P26954	P55146	O70141	P09803	Q9R0T4	P30944	P22223
P10287	P33152	P33148	P15209	Q63604	Q91044	Q16288	P24786	P55281	Q90374
P16471	Q91094	Q08501	P14787	P05710	Q28634	Q95198	P18337	Q95235	P30836
P42201	Q01102	P98106	Q9Z1K9	P21804	P16092	Q04589	P22182	P21802	P21803
Q03364	P32592	P05107	P11835	P53714	P26010	P97326	P55280	P97291	O54800
Q9ULB4	P79995	Q9Y6N8	P55288	P55289	Q13634	P05556	P09055	P12606	O54890
O70309	P18564	Q9Z0T9	Q62849	O02840	Q9Z143	Q9JLN6	O70570	P15083	Q26972
O77726	P20239	P42099	P29534	P97677	Q9NR61	Q9JI71	P28826	P43322	Q66810
Q89853	Q66814	P87666	O54732	P51512	Q9WTR0	Q9Y5R2	Q9R0S2	P37176	Q05078
Q60522	P14745	P26051	Q02092	Q90375	P10912	P79194	P19756	P19941	P16310
Q28575	P07722	Q92154	P50489	P22621	P50490	P50491	P22622	P21303	O88671
P16581	P98110	P27113	P98105	P24643	P27824	P35564	P35565	P38438	Q28589
Q13740	Q61490	Q95220	Q10739	Q02955	Q00193	O08770	Q39817	P29402	Q38798
P13597	P70180	P41740	Q04604	P16947	P02977	P08089	P32506	P15151	O57405
P07147	P40126	P29812	P14679	P11344	Q28560	P27039	Q95126	Q13705	P27041
P80201	P36895	Q05438	O00238	P36898	P36896	P80202	P80203	P36897	Q64729
Q62556	P40198	P16573	Q9GL76	Q07303	P13379	P51882	P25118	P50555	P22934
O18796	P22273	P01730	P79185	P16003	Q08340	P06332	P16004	P46630	P05540
P48440	Q24319	P43628	Q99706	Q14954	P43631	Q14952	P43632	Q14953	P43629
P33671	P82350	Q28686	O70258	P07174	P53785	P48830	P48832	P23491	P10761
P42098	P13473	P17047	P17046	P11438	P14562	Q62151	Q63495	O55145	Q9QZZ1
Q29422	Q9QZZ0	Q9QZY9	Q9QZY8	Q9QZY7	Q9QZY6	P11609	Q9XS72	P29016	P29017
P15813	Q63493	O62848	P15812	Q64314	P16946	P50470	P31785	P34902	P08920
P08921	P52796	P08101	Q63203	P08508	P27645	P12318	P31994	P31995	O73874
P52799	P52800	O35393	Q63199	P08714	P16561	Q01218	P33807	P34740	P18828
P20352	P24055	P42533	P53815	P21583	P20826	Q29030	Q9JKX8	P24668	P15725
P41690	P01590	O02733	P26897	P26898	Q28740	P26453	P20489	P20938	P25189
P27573	P06907	P41688	P01732	P07725	P11911	Q9MYX7	P42072	P10747	P31041
P42069	P31042	O35587	Q28735	P53788	Q9NY72	P30434	P05541	Q9XSM7	Q06186
Q01580	Q06175	P22646	P29328	P24161	P29329	P34900	P49414	P38575	P11942
Q64159	Q05928	P18438	P15140	Q64294	Q06922	P01134	P06028	Q28914	P15421
Q28915	P14221	O88824	O88823	P23299	Q28705	O08589	P06497	O55654	P15134
P20491	P20411								

(2) 144 type II membrane proteins (9.53%)^b

P15541	P87024	Q10472	O08912	Q10473	Q02527	Q05585	P27115	Q09325	P27810
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 Q9JIZ9 Q9NRQ2 P25169 P82349 Q9ESC2 P08290 P02706 P49300 P06583 P05026
 P14094 P05027 P07340 P05028 P05029 Q64244 P14415 P14231 P13638 P10247
 P18434 P18597 P18598 P82347 Q13326 O08597 P82348 Q60651 Q60652 Q60653
 Q60654 Q60682 P20937 P36940 P54709 P97370 Q63377 P21188 O89051 O97605
 P29965 P27548 P51435 P19101 P29553 P01375 O77764 P79337 P48094 O35734
 P36939 P23563 P04924 P16599 P23383 P79374 P27471 P27814 Q51876 O02765
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 P35108 P26790 P35106 P02951

(3) 2,402 multi-pass transmembrane proteins (8.55%)^b

P27884 P54282 O95180 O55017 Q05152 Q02294 Q15878 Q61290 Q02343 P22002
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 P02719 Q09429 O60706 P70170 P82451 Q63120 O15438 O88563 P53756 P70705
 P35670 Q64446 Q64535 Q00959 Q01097 Q61115 Q9QYM0 Q00961 Q03391 Q9N0V3
 O70127 P21440 P21439 P08183 P06795 P43245 P21449 Q08201 P23174 P21447
 P56941 Q04400 P30804 O43306 Q01341 Q03343 Q00804 Q01814 Q9R0K7 P11506
 Q16720 Q64568 P23634 Q64542 P40146 P13808 P48746 P23347 P48751 P16283
 O18917 P23348 P32847 P31424 P55013 Q13621 P55014 P55015 P55016 Q25479
 P55017 P55019 Q9EPE9 P90747 Q9SZW5 Q9R283 P70704 P54290 Q12691 Q29450
 P51828 O50439 Q9QY96 P48442 Q48815 O22218 Q9LU41 Q9SZR1 Q9M2L4 Q9LY77
 Q9LIK7 O55143 P20647 Q9YGL9 Q93084 Q64518 O23087 Q9XES1 P22180 Q08435
 P19456 P20431 Q08436 Q9SU58 Q03194 Q9LY32 Q43128 Q9LV11 P24181 P52002
 P37637 P25489 P09572 P18907 P05023 Q9YH26 P05024 P06685 P04074 P50993
 P24798 P13637 P58312 Q9WV27 Q64541 P17326 P28774 P50996 Q64392 P20648
 P19156 P27112 P09626 P54707 P54708 P70083 P04191 Q92105 Q64578 O46674
 P18596 P22700 Q9SY55 P49380 P07038 P09627 P05030 P24545 P19657 P35523
 P35524 Q9WU45 P51788 Q9R0A1 P51789 P35525 O42701 Q9TUN9 Q9QX01 Q9UBN4
 O35119 Q9UL62 O62852 Q61626 P48766 P48767 P70414 Q01728 Q9UPR5 P48768
 P70549 P54881 O53735 O53784 Q10773 P95235 Q64566 Q13002 Q13003 P42264
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 P23819 P19492 P48058 P19493 P20715 Q14832 P31422 Q14833 P31423 O15303
 P35349 O00222 P26432 P26433 Q14940 P46009 P77468 P75857 P52867 P34838
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 P10898 P56308 Q9TM46 P48104 P05700 P28254 Q78426 P11095 Q9MUW1 P49472
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 P07561 P36890 P13924 P34999 P47872 Q46502 P23811 Q90308 P32241 Q28992

P35000	Q64018	P23416	P22771	P28539	P38376	Q14542	O54699	Q46916	P27669
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P30551	P70031	P30552	P32239	P56481	P30796	P39584	Q9Z8J6	P49810	Q61144
O88777	O12977	P39835	P39344	O31862	O32140	P53798	Q02769	P29704	P37643
P52186	P35561	Q64198	P52189	P48544	P48545	O02670	P48542	P48550	Q92806
P48543	Q14500	P52187	P52188	Q15756	P58406	Q9QYN8	P24115	P35347	P35353
O62772	O42602	Q13324	Q60748	P47866	O42603	Q29010	P26684	P28088	O62709
P24530	P48302	P35463	P03844	P43804	P94926	Q9ZCS5	P46785	Q59912	Q59916
P43416	P31388	P14931	P33725	P36382	Q01231	P28234	P36381	P48165	Q9RTP8
P27148	O08387	Q05217	Q61124	P24944	P24943	Q9CL24	Q03031	Q9KTU5	Q90252
P56449	P30559	P56494	P97926	P32306	P70536	Q28756	P30560	P48043	P47901
Q9WU02	P48974	P46641	Q9MTK9	P12212	P20150	P52764	P49160	Q9M3L4	P33780
P45117	P30558	P56488	P47749	P45609	P50232	Q9R0N3	O08835	O55174	O07187
P37310	P30329	Q01255	P74985	Q07429	O26757	O26759	Q50103	Q9RPF4	P28646
P32745	P30936	P31391	O84698	P30296	P18817	P51297	Q9JHJ9	Q14654	Q61743
O02822	P20789	Q64264	P19327	O42384	P30731	Q61184	P49217	P48040	P49286
P49288	P52191	P23173	P28785	Q47825	Q63384	P82984	P30557	P50131	P46069
P34980	P79393	P43119	P43252	Q28813	Q28426	Q28427	Q28812	Q28814	Q28446
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P49133	P21727	P11869	P45064	P47745	P49892	P30542	P34970	P25099	P46616
P29274	O13076	P29275	Q60614	P29276	Q28309	P33765	O02667	P28647	O25788
P34981	P21761	Q28596	Q9JL58	Q9NPC2	P42032	Q9ZCF7	P31704	P15745	Q00513
P45780	P53344	Q07788	P38723	P70597	P33733	P51563	P51564	Q01017	P31392
P23421	P08780	Q46409	P17451	P16155	P13467	P19542	P23114	Q00087	P27455
P41144	P41145	P33534	P34975	P35372	P42866	Q95247	P35377	P79292	P51436
O54798	O97967	P47751	P30550	P21729	P52500	P28336	O54799	Q63645	Q28614
Q62668	Q48473	O52503	Q54471	O33980	Q56828	P77747	P07238	P32299	Q9GLX8
Q28642	P18861	P36383	P28229	Q61420	P87041	Q9R0M8	O77592	Q9Y2D2	P05500
P15994	O04654	P20599	Q51240	P32013	Q9S3K0	Q61130	O78470	Q9MUN7	P51232
P49655	Q70339	Q99712	O88932	P35404	P28334	P28564	P56496	P11614	Q60484
P79748	P49145	P28566	O08890	P30939	Q02284	P30940	P97441	O22342	P48962
Q05962	P25083	Q41629	P04710	P40941	Q09073	Q41630	P18239	P32007	P12236
P18238	Q27238	P31692	P49382	P02723	P31691	Q09188	P32014	O08726	O88853
O88626	Q9NS67	O54897	Q9NS66	P46025	P46027	P47861	P49146	Q9GK74	P97295
O02836	O09027	Q04573	O02835	P21555	P34992	P50391	Q61041	Q63447	P30875
P34994	P30680	P30937	P35346	O08858	P30938	Q99500	P47752	P17646	P29404
P90680	O61303	P14154	P16863	P18860	P08099	P28679	P35361	O01668	Q17292
Q17296	P35356	P35362	Q9WV08	P45020	O18821	P49922	P32237	Q83953	Q48450
P75881	P47774	P28678	Q25158	Q17053	P34997	P51683	O55193	Q9Z2I3	P51678
O54814	P51679	P51680	P49650	P49651	Q9QXY9	Q9JJK4	Q9V427	Q9XYN1	P52373
P32307	Q00788	P35364	P35365	P35358	P04001	O18910	O35478	P22331	P22332
Q95170	O18913	P04000	O12948	P30987	P34978	O08725	P45062	P57816	Q9ZCW0
P43118	Q28905	O75845	O88822	P50132	P25089	P21462	Q05394	O42582	P17810
O42281	P35906	P23942	P15499	P17438	O42583	P35374	P35351	Q9WV26	P79785
P30556	O35210	P29754	P30555	P34976	P25095	Q13725	P29755	P29089	P46095
P47775	P35412	P30951	Q01605	P02932	Q47490	Q01606	P30704	P30705	O61703
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P35357	P03999	P51491	P87365	P52202	Q90245	Q90214	P41591	P41590	Q9YGG1
P02699	P56514	P32309	Q9YGG2	P22328	P28681	P51488	O62791	Q9YGG4	Q9YH05
P79756	O62792	Q9YGG2	P08100	P22671	Q9YH00	Q9YGG6	Q9YGG7	P15409	Q9YGG9
Q9YH01	P79812	P87369	Q98980	O62795	O62794	P35403	P49912	P79863	P51470
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O62798	P29403	Q90215	P32311	P28683	O35599	P87366	O35476	P32312	P51474
P87367	P35359	Q90309	P28684	P87368	P51473	O97663	P55920	P21109	P70612
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P45053	O88628	Q9H343	Q9H344	Q9UKL2	Q9H346	O43749	P47890	P58173	Q13607
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P13588	P43376	P98036	P05490	Q37718	P04373	P08744	Q37604	Q02212	P05491
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P08005	P19057	O84457	Q42870	P42394	Q44601	P44661	P24392	O52401	P37315
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Q60720	Q95245	Q95204	Q91577	O75352	Q9R0Q9	P43369	P43370	P43371	P43372
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P52879 Q10358 P98023 P82874 O35093 P24012 P34958 Q9Z0V8 O35092 O60830
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P16257 O84413 Q01453 P16646 P25094 Q9CGU5 Q59835 P49858 P52159 Q22361
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P39446 O68285 O84179 P20923 Q9JZG6 Q9HW19 Q9ZNE7 Q9KV36 P04140 Q51769
P13112 Q54462 P04336 Q9ZDH1 Q9V0X2 O59171 Q9T1D7 P77682 O24060 O50070
O65085 O22622 P46967 P20924 O87866 P14319 Q57225 O87868 P95094 P22593
Q07633 O31553 P71938 P50940 O06819 P36348 P10921 P03492 P05778 P26129
P26130 P08382 P06821 P35938 P05780 P05779 O26234 O15342 P57185 P33134
P34201 O25964 Q9Z324 Q9Z325 Q9LRI7 Q9M095 Q9SUI0 Q9ZNQ7 Q9ZNS6 Q22700
Q22701 Q20516

(4) 67 lipid chain-anchored membrane proteins (10.22%)^b

P75324 P75493 P75489 P75280 P75595 P75496 P75376 P18791 Q9ZHD2 P75193
P39700 P07173 P32779 P41780 O31362 Q9K0B1 O84080 Q10670 Q9L5X1 Q53891
P42364 Q9L5X0 Q9KIJ3 P31305 Q9A157 P75152 P75153 P75155 Q09086 Q04851
Q09089 Q09088 Q04968 Q09090 Q08869 Q08870 P28635 P75154 P75156 Q9CKA5
Q48261 Q9ZL47 P55969 P75060 P75505 P75373 P75316 P75137 P27461 P29230
Q49536 Q49538 Q9Z731 P32778 P57834 Q08790 Q51886 P43036 P11572 P22882
P55741 Q53549 P27606 P21355 P02940 P58041 P58042

(5) 83 GPI-anchored membrane proteins (11.75%)^b

P43076 O13318 Q9Y625 Q9R087 P15693 P05188 P10696 Q9NY84 P06858 O46647
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P40252 P04273 P04925 P52114 P49927 P40256 Q95211 P13852 Q01880 P40243
P14207 Q05685 P10252 O43921 P52801 P52804 P52803 P97605 P13401 P19455
P97553 O62643 P01830 P14043 P35460 Q9WU67 Q28216 Q00996 P13987 Q28785
O77541 O62680 Q07490

(6) 2 peripheral membrane proteins (5.00%)^b

P41542 Q02639

^aData listed here were taken from SWISS-PROT release 40 (October 2001).

^bAverage sequence identity percentage for the subset concerned. The sequence identity between two protein sequences is defined as follows. Suppose the maximum number of residues matched by sliding one sequence along the other is M , and the alignment length is L , the

sequence identity between the two sequences is defined as M/L . The treatment for gaps is according to CLUSTALW (Thompson et al. *Nucleic Acids Research* 1994, 22, 4673-4680).