

Supplementary data

Table 1: Cochlear proteins detected in three rat strains.

Out of the 725 antibodies investigated 639, 649 and 706 were detected in the cochlear tissue of Wistar, Sprague-Dawley and Fischer-344 rats respectively. The fold expressions given are relative to actin. X indicates that the proteins were not detected in the specific strain while trace indicates that the detection range was between 0.01 – 0.04.

Protein Name	ID (Sigma)	Fold expression relative to actin		
		Wistar	Sprague-Dawley	Fischer 344
14 3 3	T5942	X	2.0	0.1
Acetyl Histone H3 AcLys9	H9286	X	1.6	0.4
Acetyl Histone H3 AcLys9	H0913	X	0.3	0.6
Acetyl phospho Histone H3 AL9 S10	H9161	0.3	2.1	0.7
Acetyl phospho Histone H3 AL9 S10	H0788	0.5	0.9	0.4
Acetylated Protein	A5463	1.1	0.6	1.8
Actin	A3853	0.6	X	0.7
Actin	A5060	1.0	1.0	1.0
Actin α-Smooth Muscle	A5228	0.6	0.1	0.3
Actopaxin	A1226	1.0	0.3	0.8
ADAM17	T5442	0.2	0.1	0.1
Afadin	A0224	1.5	0.3	1.8
AFX	A5854	0.4	0.2	0.1
AFX	A8975	1.1	0.2	0.8
AKR1C3	A6229	0.5	0.2	0.2
Aly	A9979	0.6	0.3	0.4
Amyloid Precursor Protein	A8717	1.5	0.3	0.9
Amyloid Precursor Protein	A8967	0.7	0.3	0.6
Amyloid Precursor Protein KPI Domain	A8842	0.5	0.3	0.3
Androgen Receptor	A9853	0.3	0.2	0.2
Annexin V	A8604	0.9	0.3	0.7
Annexin VII	A4475	1.1	1.2	2.4
AOP1	A7674	0.5	0.1	0.8
AP Endonuclease	A2105	0.4	0.1	0.8
AP1	A5968	1.2	0.8	5.0
AP2α	A0844	1.1	0.9	3.4
Apaf1	A8469	0.2	0.4	0.1
Apoptosis Inducing Factor	A7549	0.7	0.5	0.5
APRIL	A1726	0.2	0.4	0.1
APRIL	A1851	0.2	0.4	trace
ARC	A8344	0.1	0.1	0.1
ARNO	A4721	0.5	0.1	0.5
Arp1α Centractin	A5601	1.0	0.2	0.7
ARP2	A6104	0.6	0.4	0.5
ARP3	A5979	0.6	0.3	0.2
ARTS	A3720	1.5	1.3	0.8
ARTS	A4471	0.4	0.4	0.3
ASAP1 Centaurin β4	A4227	1.2	4.1	1.2
ASC2	A5355	0.3	0.1	0.2
ASPP1	A4355	0.3	0.2	0.3
ASPP2	A4480	0.3	0.1	0.2
ATF1	A7833	0.4	trace	0.6
ATF2	A4086	0.6	1.1	1.7
ATF2 pThr69 71	A4095	1.0	2.5	2.8
ATM	A6218	0.3	0.1	1.3

ATM	A6093	0.5	0.1	0.8
AuroraB	A5102	0.3	2.5	1.1
BACE 1	B0806	0.9	0.3	3.2
BACH1	B1310	0.1	X	0.2
BAD	B0559	0.2	X	0.3
BAF57	B0436	0.4	0.3	0.4
BAK	B5897	0.4	0.4	1.1
BAP1	B9303	0.6	0.8	1.3
Bax	B8429	0.8	1.4	1.0
Bax	B3428	1.1	1.0	1.3
Bax	B9054	0.7	0.6	1.2
Bax	B8554	0.8	0.5	1.1
Bcl10	B0431	1.1	1.6	0.9
Bcl10	B7806	0.6	0.1	0.1
Bcl-10	B0306	1.7	5.7	1.3
Bcl2	B9804	0.6	0.3	0.6
Bcl2	B3170	0.2	0.1	X
Bclx	B9304	0.7	1.2	1.9
BclxL	B9429	0.9	0.2	0.2
BID	B4305	1.0	2.3	2.8
BID	B3183	0.5	1.1	0.3
Bim	B7929	0.9	X	X
BLK	B8928	X	0.2	trace
Bmf	B1559	0.9	0.7	0.1
Bmf	B1684	0.6	0.3	0.1
BNIP3	B7931	0.6	X	0.3
BOB1 OBF1	B7810	0.6	0.3	0.8
Brg1 hSNF2b	B8184	1.3	0.9	1.6
BTK	B0811	1.1	0.8	1.0
BTK	B0686	0.5	0.1	0.4
BUB1	B0561	0.7	0.2	0.7
BUBR1	B9310	0.5	0.2	0.3
cAbl	A5844	1.0	0.6	1.2
CalbindinD28K	C7354	1.0	0.8	2.3
Calcineurin α Subunit	C1956	0.4	0.3	0.7
Caldesmon	C6542	0.7	0.2	1.3
Calmodulin	C7055	X	X	0.7
Calnexin	C4731	0.3	0.3	0.4
Calponin	C2687	0.6	0.3	0.7
Calreticulin	C4606	1.0	0.3	0.7
Calretinin	C7479	0.7	0.3	1.4
CaM Kinase II α	C6974	0.4	0.2	0.4
CaM Kinase IV	C9973	1.0	1.6	0.4
CaM Kinase IV CaMKIV	C2851	0.7	0.3	1.0
CaM Kinase Kinase α CaMKK α	C7099	0.5	X	0.6
Casein Kinase 2 α	C5367	0.7	0.2	0.3
Casein Kinase 2 β	C3617	X	0.2	trace
CASK LIN2	C4856	1.2	1.5	1.1
Caspase 10	C1229	1.1	0.1	1.1
Caspase 2	C7349	1.0	2.1	1.0
Caspase 3	C9598	0.6	0.3	0.6
Caspase 3 Active	C8487	2.4	0.4	0.6
Caspase 4	C3392	0.3	0.3	0.3
Caspase 4	C4481	0.2	0.2	0.2
Caspase 5	C6979	0.7	0.2	0.5
Caspase 6	C7599	1.2	1.6	2.6

Caspase 7	C1104	2.1	1.4	4.3
Caspase 7	C7724	0.8	0.1	1.0
Caspase 8	C2976	1.4	2.0	1.8
Caspase 8	C3101	1.0	1.2	1.4
Caspase 8	C4106	0.8	0.1	1.2
Caspase 9	C4356	0.8	0.4	1.0
Caspase 9	C7729	1.3	0.3	2.1
Caspase10	C8351	1.7	3.0	3.5
Caspase11	C1354	2.1	2.3	3.8
Caspase12	C7611	0.8	0.7	0.8
Caspase13	C8854	0.1	1.3	0.1
Catalase	C0979	0.8	0.2	0.9
Cathepsin D	C0715	X	X	0.3
Cathepsin L	C2970	0.3	0.4	1.0
Caveolin1	C3237	0.7	1.4	1.1
cCbl	C9603	1.0	0.3	1.2
CD40	C5987	X	X	0.2
Cdc14A	C2238	0.2	0.1	0.6
Cdc25A	C9479	0.4	0.2	1.2
Cdc25c	C0349	0.4	1.0	0.7
Cdc27	C7104	0.1	0.6	0.5
Cdc6	C0224	0.7	2.3	1.1
Cdc7 Kinase	C6613	0.4	0.4	0.8
Cdh1	C7855	0.5	1.0	1.1
Cdk1	C4973	0.1	0.1	0.3
Cdk3	C9987	X	0.1	0.1
Cdk4	C8218	0.9	1.7	1.4
Cdk6	C8343	0.5	1.3	1.1
Cdk7 cak	C7089	0.3	0.3	0.5
Cdk8	C0238	0.3	1.2	0.8
CENPE	C7488	0.9	0.1	0.5
Centrin	C7736	0.4	trace	2.1
cerbB2	E2777	0.5	0.2	0.1
cerbB3	E8767	1.8	trace	1.8
cerbB4	E5900	0.6	X	0.1
Chk1	C9358	0.5	0.3	0.3
Chk2	C9108	0.8	0.5	0.9
Chk2	C9233	0.6	0.3	0.7
Chondroitin Sulfate	C8035	1.1	0.1	2.9
Ciliated Cell Marker	C5867	1.1	0.2	1.2
CIN85	C8116	0.2	0.2	0.2
cJun N Terminal Kinase	J4500	1.2	1.2	1.6
cJun pSer63	J2128	X	0.2	X
cJun pSer73	J2253	X	X	X
Claspin	C7867	1.0	0.2	1.2
Clathrin Heavy Chain	C1860	0.5	0.1	0.5
Clathrin Light Chain	C1985	1.0	0.4	0.7
cMyc	C3956	0.8	1.5	1.5
cMyc	M4439	0.4	0.3	0.2
CNPase	C5922	0.6	0.3	0.6
Cofilin	C8736	3.3	2.1	1.5
Coilin	C1862	0.8	0.3	1.4
Collagen Type IV	C1926	1.1	0.6	2.1
Connexin 32	C6344	1.1	3.0	1.9
Connexin 32	C3470	1.6	2.3	2.7
Connexin 43	C6219	1.1	0.3	1.1

Connexin43	C8093	3.1	0.3	2.8
Cortactin	C6987	1.2	1.4	0.6
Corticotropin Releasing Factor	C5348	1.3	1.1	1.0
COX II	C9354	0.5	X	0.2
cRaf pSer621	R1151	X	1.0	0.5
Crk II	C0853	1.1	1.6	0.9
CrkL	C0978	1.2	2.4	1.0
Csk	C7863	2.2	1.3	1.5
CtBP1	C9491	1.9	0.3	1.0
CtBP1	C8741	0.4	0.2	0.5
CUGBP1	C5112	0.5	0.3	0.9
Cyclin A	C4710	0.3	X	0.6
Cyclin B1	C8831	0.7	0.8	1.1
Cyclin D1	C7464	1.7	3.6	3.9
Cyclin D1	C5588	0.8	2.6	1.3
Cyclin D2	C7339	0.7	0.9	1.7
Cyclin D3	C7214	0.6	0.5	1.1
Cyclin H	C5351	0.9	1.5	2.6
Cystatin A	C3095	0.6	0.6	1.2
Cytohesin1	C8979	0.5	1.1	0.7
Cytokeratin 8 12	C7034	0.1	X	0.3
Cytokeratin 8 13	C6909	X	1.2	0.2
Cytokeratin CK5	C7785	0.4	0.1	1.1
Cytokeratin peptide 13	C0791	0.3	0.5	0.6
Cytokeratin Peptide 17	C9179	0.6	0.8	1.7
Cytokeratin peptide 18	C1399	0.5	0.5	0.6
Cytokeratin peptide 19	C6930	0.2	0.2	0.4
Cytokeratin peptide 7	C6417	0.6	0.4	1.0
Cytokeratin peptide4	C5176	0.9	0.7	1.7
DAP Kinase 2	D3191	0.5	0.5	0.2
DAPK	D2178	0.5	0.9	1.0
DAPK pSer308	D4941	0.4	0.3	0.7
Daxx	D7810	1.2	2.3	2.4
DcR1	D3566	X	X	X
DcR2	D3188	0.4	1.1	0.4
DcR3	D1814	X	X	0.1
DEDAF	D3316	0.3	1.4	0.2
Desmin	D1033	1.0	3.3	1.0
Desmosomal Protein	D1286	0.6	0.4	0.9
Destrin ADF	D8940	1.3	0.9	3.2
Dimethyl Histone H3 diMeLys4	D5692	0.9	2.4	1.4
Dimethyl Histone H3 diMeLys9	D5567	2.1	0.2	1.0
DNASE I	D0188	X	0.3	0.2
DNASE II	D1689	0.5	2.2	0.2
DNMT1	D4567	1.5	5.9	1.9
DNMT1	D4692	1.6	3.1	2.7
DOPA Decarboxylase	D0180	0.7	0.8	0.9
DP2	D7438	1.5	2.0	2.3
DR3	D3563	X	1.8	0.1
DR4	D3813	1.2	1.9	4.4
DR5	D3938	1.0	2.6	0.3
DR6	D1564	X	1.5	trace
DRAK1	D1314	0.6	1.7	0.4
Dystrophin	D8043	1.9	3.9	1.6
Dystrophin	D8168	0.9	0.7	1.2
E2F1	E8901	1.5	2.1	3.9

E2F1	E9026	0.6	2.0	1.6
E2F2	E8776	1.5	2.4	3.7
E2F3	E8651	0.5	0.3	1.6
E2F4	E8526	1.5	2.2	3.9
E6AP	E8655	0.5	X	1.0
EGF receptor	E3138	0.3	0.5	0.6
Elastin	E4013	0.5	0.4	1.1
ELKS	E4531	0.9	0.4	1.8
Endothelial Cell Protein C Receptor	E6280	0.7	0.4	1.1
Endothelial Cells	E9653	0.5	0.4	1.1
Endothelin	E0771	0.9	2.7	1.9
Epidermal Growth Factor	E2520	1.1	6.5	1.1
Episialin	E0143	0.6	0.6	0.6
ERK5 BIG MAPKBMK1	E1523	1.7	13.6	2.8
ERP57	E5031	0.5	0.5	0.7
Estrogen receptor	E1396	2.1	9.7	2.5
Estrogen Receptor	E0521	1.6	9.5	2.4
Exportin T	E1531	0.5	0.5	0.7
Ezrin	E8897	0.5	1.3	1.2
F1A	F3428	0.7	2.8	0.4
FADD	F8053	0.7	0.9	1.0
FAK Phospho pSer772	F9051	X	0.2	0.1
FAK Phospho pSer910	F9301	X	X	trace
FAK pTyr397	F7926	X	0.2	0.3
FAK pTyr577	F8926	0.1	0.3	X
Falkor PHD1	F5303	0.6	0.6	1.3
FANCD2	F0305	1.2	2.3	1.4
Fas CD95 Apo1	F4424	0.3	0.3	0.9
Fas Ligand	F1926	1.0	1.4	2.8
Fas Ligand	F2051	1.1	1.0	3.0
FBI1 PAKEMON	F9429	0.2	2.0	0.3
Fibroblast Growth Factor9	F1672	X	X	0.3
Fibronectin	F3648	1.1	1.9	2.8
Fibronectin	F7387	0.5	1.9	1.5
Fibronectin	F0791	0.6	0.8	1.3
Filamin	F1888	0.7	0.6	1.5
Filensin	F1043	0.6	0.7	0.8
FKHR FOXO1a	F6928	0.6	0.7	1.0
FKHRL1	F1304	0.4	0.3	0.5
FKHRL1 FOXO3a	F2178	0.8	1.2	1.7
FLIPy/δ, C-Terminal	F9925	0.3	1.0	0.1
Focal Adhesion Kinase pp125FAK	F2918	1.9	8.9	2.4
FOXC2	F1054	X	0.4	0.1
FOXP2	F6304	0.9	2.3	1.1
FRS2	F9052	0.7	2.8	2.1
FXR2	F1554	0.6	0.5	0.3
G9a Methyltransferase	G6919	X	X	0.3
GAD 65	G5038	1.5	2.6	2.7
GADD153	G6916	1.2	2.5	2.4
GAP1IP4BP	G6666	0.7	0.8	1.8
GAPDH	G8795	X	X	0.2
GAPDH	G8795	0.3	0.2	0.6
GATA1	G0290	0.5	2.3	1.8
Gelsolin	G4896	0.9	1.5	1.7
Gemin 2	G6669	0.7	0.8	1.1
Gemin3	G6544	0.6	0.8	1.1

GFAP	G3893	0.2	0.4	0.2
GFAP Glial Fibrillary Acidic Protein	G9269	1.7	7.5	2.5
Glutamate receptor NMDAR 2a	G9038	X	1.4	1.3
Glutamic Acid Decarboxylase 65	G4913	1.4	10.4	2.1
Glutamic Acid Decarboxylase GAD65 67	G5163	1.4	6.5	2.0
Glutamine Synthetase	G2781	0.7	3.2	1.0
Glycogen Synthase Kinase3	G4414	0.7	1.0	1.0
Glycogen Synthase Kinase3 GSK3	G6414	0.2	0.9	0.5
Glycogen Synthase Kinase3β	G7914	1.0	0.6	2.0
GRANZYME B	G1044	0.9	1.5	2.3
Grb2	G2791	1.3	3.0	1.1
GRK2	G7670	0.8	1.3	0.8
Growth Factor Independence1	G6670	0.5	0.1	0.6
GRP1	G6541	0.6	1.3	0.7
GRP75	G4170	X	1.1	0.2
GRP78 BiP	G8918	1.0	3.9	1.4
GRP94	G4420	0.2	0.2	0.3
hABH1	A8103	0.5	0.2	1.0
hABH2	A8228	0.5	0.4	1.1
hABH3	A8353	0.6	0.1	1.2
HAT1	H7161	0.7	2.2	2.2
hBRM hSNF2α	H9787	0.3	X	X
HDAC1	H3284	1.0	4.0	2.1
HDAC1	H6287	0.8	1.9	1.4
HDAC10	H3413	X	1.2	1.0
HDAC11	H2913	0.2	0.4	0.8
HDAC2	H3159	1.4	6.6	2.5
HDAC2	H2663	0.6	1.3	1.2
HDAC3	H3034	1.0	3.9	1.5
HDAC3	H6537	0.9	1.4	2.0
HDAC4	H9536	0.5	1.3	1.9
HDAC4	H9411	0.6	1.1	1.4
HDAC5	H4538	0.4	0.6	0.6
HDAC5	H8163	0.2	0.2	0.2
HDAC6	H2287	0.8	4.6	1.4
HDAC7	H6663	0.5	0.6	0.6
HDAC7	H2537	X	0.2	0.6
HDAC8	H6412	0.3	0.6	0.5
HDRP MITR	H9163	0.8	0.8	2.5
Heat Shock Factor 1	H4163	0.1	X	0.3
Heat Shock Factor 2	H6788	0.7	0.4	1.0
Heat Shock Protein 110	H7412	0.8	1.6	1.0
Heat Shock Protein 110	H7287	X	0.9	0.3
Heat Shock Protein 25	H0148	0.4	0.3	1.0
Heat Shock Protein 27	P1498	X	1.5	1.0
Histone H3 pSer10	H0412	0.9	1.0	1.3
Histone H3 pSer10	H6409	0.3	0.4	0.3
Histone H3 pSer28	H9908	0.7	1.1	2.0
HMG1	H9537	0.5	X	1.0
hMps1	M5818	0.5	0.1	1.1
hnRNP KJ	R8903	0.5	0.4	0.8
hnRNP M3 M4	R3777	0.6	0.3	0.9
hnRNPA1	R4528	0.7	0.5	1.1
hnRNPA1	R9778	0.6	0.2	1.0
hnRNPA2B1	R4653	0.6	0.4	0.8
hnRNPC1C2	R5028	0.4	0.2	0.6

hnRNPL	R4903	0.6	0.3	1.0
hnRN PQ	R5653	0.5	0.3	0.6
hnRNPU	R6278	0.4	0.2	0.7
hPIk1	P5998	0.5	0.3	0.2
hPIk1	P6123	0.5	0.2	0.2
hSNF5 INI1	H9912	1.0	0.7	1.7
HSP 27 25	H2289	0.2	0.7	0.4
HSP 90	H1775	X	X	X
HSP70	H5147	0.2	0.1	0.4
IAfadin	A0349	2.7	trace	1.6
iASPP	A4605	0.8	1.1	0.7
IFI16	I1659	0.4	0.2	0.9
IkB α	I0505	0.6	0.3	0.6
IKKα	I6139	1.0	0.2	3.1
ILK	I1907	1.1	1.2	0.8
ILK	I0783	0.7	0.3	0.3
ILP2	I4782	0.9	3.2	0.6
Importin α3	I9783	0.1	X	0.6
Importina 5 7	I9908	0.9	0.8	0.9
Importina1	I9658	0.7	0.6	1.0
INCENP	I5283	2.0	6.1	2.4
ING1	I3659	1.0	0.5	1.1
JAB 1	J3395	1.8	5.4	2.1
JAB1	J3020	1.7	2.7	2.9
JAK1	J3774	1.0	1.3	1.1
JNK Activated Diphosphorylated JNK	J4750	1.0	1.8	0.9
Kaiso	K4263	1.3	0.4	0.5
KCNK9	K0514	1.5	2.5	1.9
KIF17	K3638	1.9	0.6	1.4
KIF3A	K3513	1.3	0.7	0.6
KSR	K4261	0.9	0.6	0.5
Ku Antigen	K2882	1.1	0.2	0.9
L1CAM	L4543	1.1	0.4	0.6
Laminin	L9393	1.4	0.5	1.8
Laminin2 α2 Chain	L0663	0.9	0.1	0.4
LAP2 TMPO	L3414	0.8	0.2	0.5
LDS1	L4793	1.8	2.7	1.7
Leptin	L3410	1.2	0.6	1.5
LIM Kinase1	L2290	1.8	5.0	2.2
LIN7	L1538	2.0	1.6	2.8
LIS1	L7391	0.8	X	1.2
LKB1	L7917	1.5	2.5	1.5
Mad1	M8069	1.1	0.8	1.0
Mad2	M8694	0.7	0.1	1.2
MADD	M5683	0.2	1.2	0.1
MAFF	M8194	1.8	2.4	1.7
MAGI1	M5691	1.5	2.3	1.8
MAGI2	M2441	2.2	3.4	1.9
MAP Kinase 2 ERK2	M7431	X	X	X
MAP Kinase Activated Diphosphorylated ERK1 2	M9692	0.9	0.5	0.8
MAP Kinase Activated Monophosphorylated Phosphothreonine ERK1 2	M7802	0.8	1.3	1.1
MAP Kinase Activated Protein Kinase2 MAPKAPK2	M3550	5.6	5.7	3.1
MAP Kinase ERK1	M7927	3.3	10.1	2.4
MAP Kinase Erk1Erk2	M5670	1.0	0.6	3.1
MAP Kinase Kinase MEK MAPKK	M5795	0.6	1.0	2.5

MAP Kinase Monophosphorylated Threonine	M3557	0.8	0.4	0.6
MAP Kinase Monophosphorylated Tyrosine	M3682	0.9	1.1	0.7
MAP Kinase Phosphatase1 MKP1	M3787	1.8	4.8	1.7
MAP1	M4278	0.6	1.4	2.0
MAP1 Light Chain	M6783	0.1	X	0.4
MAP1b	M4528	0.2	X	0.3
MAP2	M9942	0.4	X	0.9
MAP2 2a 2b	M2320	1.0	0.6	0.9
MAPK non phosphorylated ERK	M3807	0.7	0.7	0.8
MBD1	M6569	0.1	X	0.3
MBD2a	M7568	0.7	3.1	1.3
MBD2ab	M7318	0.1	X	0.3
MBD4	M9817	0.7	2.2	2.5
MBDin XAB1	M1944	0.7	3.7	1.6
MBNL1	M3320	0.3	X	0.6
MCH	M8440	0.9	7.8	1.5
Mcl1	M8434	1.3	5.2	2.5
MDC1	M2444	0.5	1.6	0.4
MDM2	M7815	0.6	2.4	0.6
MDM2	M4308	0.3	0.5	0.7
MDM2	M8558	0.3	0.4	0.5
MDMX	M0445	0.7	1.0	0.7
MeCP2	M7443	0.2	X	0.4
MeCP2	M9317	0.9	2.0	1.5
MeCP2	M6818	X	0.8	0.5
MEKK4	M7194	0.5	1.2	0.8
Melanocortin3 Receptor	M4937	1.9	8.1	1.9
methyl Histone H3 MeLys9	H7162	X	0.2	0.1
MGMT	M3068	0.2	0.6	0.5
Mint2	M3319	0.3	0.1	0.5
MRP1	M6565	0.3	0.4	0.4
MRP1	M9192	0.4	0.1	0.9
MRP2	M3692	0.4	X	1.0
MSH6	M2445	0.9	0.9	0.8
MSH6	M2820	0.3	0.3	0.3
MSK1	M5437	1.1	4.3	1.3
MTA 2	M7569	X	0.2	1.7
MTA1	M1320	0.4	0.3	1.3
MTA1	M7693	0.2	0.3	0.6
MTA2 MTA1L	M7818	1.2	0.7	2.7
MTA3L	M0819	0.6	1.4	0.8
MTBP	M3566	0.2	0.2	0.1
mTOR	T2949	X	0.7	1.1
Munc13 1	M6194	0.3	0.5	0.5
Munc181	M2694	0.8	1.3	1.0
MyD88	M9934	X	0.8	0.1
Myosin	M1570	X	0.6	0.8
Myosin Ib Nuclear	M3567	X	0.4	1.2
Myosin IIA	M8064	0.6	0.5	1.1
Myosin IX Myr5	M5566	1.3	2.5	1.3
Myosin Light Chain Kinase	M7905	4.7	3.4	6.9
Myosin Va	M5062	1.4	1.7	2.3
Myosin Va	M4812	1.7	1.6	3.6
Myosin VI	M5187	1.4	2.4	2.8
Myosin VI	M0691	1.9	2.2	3.8
NAK	N2661	0.4	0.1	0.7

NBS1	N3037	0.3	X	0.6
NBS1	N3162	0.4	0.2	0.5
NBS1 Nibrin	N9287	0.7	0.3	0.9
NCadherin	C2542	0.5	0.3	0.6
NCadherin	C2667	0.7	0.2	0.4
Nck2	N2911	1.8	2.5	1.4
Nedd8	N2786	1.6	3.0	1.4
Nerve Growth Factor Receptor	N5408	0.8	0.9	1.1
Nerve growth factor receptor p75	N3908	2.0	1.3	1.7
Nerve Growth Factor β	N3279	X	X	0.7
Neurabin I	N4412	0.4	0.8	0.2
Neurabin II	N5037	0.7	0.9	0.4
NeurabinII	N5162	0.6	0.3	0.1
Neurofibromin	N3662	1.8	2.0	1.2
Neurofilament 160	N2787	1.1	0.9	0.7
Neurofilament 160 200	N2912	0.8	0.6	1.0
Neurofilament 200	N4142	2.3	2.7	2.0
Neurofilament 200	N0142	0.4	1.5	0.8
Neurofilament 200	N5389	1.0	1.3	0.6
Neurofilament 68	N5139	0.5	0.3	0.8
NFkB	N8523	0.2	X	0.5
NG2	N8912	0.3	X	0.7
Nicastrin	N1660	1.0	2.7	1.5
Nitric Oxide Synthase bNOS	N2280	X	X	0.5
Nitric Oxide Synthase bNOS	N7155	1.6	9.8	2.2
Nitric Oxide Synthase Endothelial eNOS	N2643	1.2	5.0	1.9
Nitric Oxide Synthase Endothelial eNOS	N3893	X	4.3	1.5
Nitric Oxide Synthase Endothelial eNOS	N9532	2.6	3.9	4.6
Nitric Oxide Synthase Inducible iNOS	N7782	1.0	4.0	1.5
Nitric Oxide Synthase Inducible iNOS	N9657	0.4	1.4	1.0
Nitrotyrosine	N0409	0.9	0.6	2.4
Notch1	N6786	0.3	0.3	0.8
NTF2	N9527	0.5	0.3	0.6
Nuf2	N5287	0.4	1.1	0.4
OGlcNAc Transferase	O6264	0.2	X	0.2
OP18 Stathmin	O0138	1.0	2.5	1.1
Ornithine Decarboxylase	O1136	0.5	1.2	0.7
p115 TAP	P3118	X	0.9	0.4
p120ctn	P1870	1.0	7.7	1.7
p130CAS	C0354	0.6	3.7	1.0
p14 arf	P2610	0.5	0.9	0.5
p16INK4a/CDKN2	P0968	X	0.6	0.7
p19INK4d	P4354	0.3	0.3	0.7
p21WAF1Cip1	P1484	1.0	1.3	3.3
p300 CBP	P2859	0.3	0.1	0.7
p34cdc2	C3085	0.3	0.2	0.7
p35 Cdk5 Regulator	P9489	0.9	6.7	1.4
p38 MAP Kinase NonActivated	M8432	0.5	1.2	0.5
p38 MAPK	M0800	0.5	3.3	1.3
p38 MAPK activated diphosphorylated p38	M8177	0.2	0.2	0.7
P53	P6874	0.4	1.9	0.9
p53	P5813	0.6	1.0	1.3
P53 BP1	B4436	0.2	X	0.3
P53 BP1	B4561	0.2	0.3	0.2
p53 pSer392	P8982	X	0.1	X
p53DINP1SIP	P4868	1.0	1.8	0.3

P53R2	P4993	0.6	1.2	0.2
p57kip2	P2735	0.9	1.1	0.6
p63	P3737	0.5	1.0	0.3
p63	P3362	1.0	0.7	0.9
PABP	P6246	0.1	0.3	0.4
PAD14	P4749	0.9	2.1	1.1
PAK1pThr212	P3237	0.4	0.5	0.6
Pan Cadherin	C1821	0.9	0.4	0.4
Pan Cytokeratin	C2931	0.4	0.5	0.6
Par4 Prostate Apoptosis Response 4	P5367	2.3	0.4	1.3
Parkin	P6248	0.9	4.3	0.8
PARP	P7605	1.8	2.3	3.1
Paxillin	P1093	0.8	0.4	1.5
PCAF	P7493	1.5	2.2	3.0
PDK1	P3110	1.2	2.7	1.5
Pen2	P5622	0.6	3.0	1.0
Peripherin	P5117	2.0	4.0	3.9
Peroxiredoxin 3	P1247	1.8	6.1	1.9
PERP	P5243	0.3	2.2	0.2
Phosphatidylinositol 3Kinase PI 3Kinase p85a	P8208	0.5	0.3	2.0
Phosphatidylserine Receptor	P1495	1.4	0.5	1.4
phosphoHistone H2AX pSer139	H5912	X	3.1	0.5
Phospholipase A2 group v	P5242	2.4	5.1	4.4
Phospholipase C γ 1	P8104	1.0	0.7	0.8
Phosphoserine	P5747	1.3	0.6	0.3
Phosphothreonine	P6623	1.3	1.0	0.2
Phosphotyrosine	P1869	1.0	0.4	0.5
phospho- β -Catenin pSer45	C5615	0.8	0.2	0.8
PIASx	P9498	0.6	0.1	0.4
PID MTA2	P5118	0.6	0.8	0.2
PINCH1	P9371	0.8	0.5	0.5
PKB pSer473	P4112	0.7	0.6	0.8
PKB pThr308	P3862	0.8	0.5	1.2
PKR	P0244	X	6.0	1.6
Plakoglobin Catenin γ	P8087	X	X	0.3
Platelet-Derived Growth Factor Receptor β	P7679	X	0.1	0.1
Plectin	P9318	0.8	0.5	0.5
PML	P6746	0.5	0.3	0.4
Presenilin1	P7854	0.5	3.3	1.1
Prion Protein	P5999	0.3	0.2	X
PRMT1	P6871	X	0.2	0.1
PRMT1	P6996	0.3	0.1	0.2
PRMT2	P0748	0.6	0.4	1.0
PRMT3	P9370	0.9	0.4	1.0
PRMT4	P4995	1.8	2.0	3.1
PRMT5	P0493	1.2	0.9	1.0
PRMT6	P6495	2.0	3.0	3.2
PRMT6	P2996	0.7	0.6	0.9
ProCaspase 8	C7849	1.3	0.8	1.7
Proliferating Cell Nuclear Antigen	P8825	X	X	0.7
Proliferating Cell Protein Ki67	P6834	2.2	5.4	6.7
Protein Kinase B α	P1601	3.6	6.7	1.8
Protein Kinase B α	P2482	1.3	0.8	0.6
Protein Kinase C PKC	P5704	0.3	0.2	0.2
Protein Kinase C γ	P8083	X	0.2	0.4
Protein Kinase D	P3987	0.9	1.8	0.9

Protein Kinase C	P0713	X	1.6	2.9
Protein Kinase C	P8090	X	0.6	2.1
Protein Kinase C α	P4334	0.6	3.1	4.2
Protein Kinase C β 1	P3078	X	X	0.2
Protein Kinase C β 1	P6959	0.2	0.7	0.6
Protein Kinase C β 2	P2584	X	X	0.2
Protein Kinase C β 2	P3203	X	1.2	0.7
Protein Kinase C δ	P8333	0.7	0.7	1.7
Protein Kinase C ϵ	P8458	0.5	1.2	2.5
Protein phosphatase 1 α	P7979	1.3	3.4	1.4
Protein Phosphatase 1 α	P7607	3.9	0.6	4.7
Protein Phosphatase 2A α	P8998	1.7	2.0	2.8
Protein S	P4555	1.6	5.5	2.3
Protein Tyrosine Phosphatase PEST	P9109	X	X	0.5
PSF	P2860	1.1	0.5	0.6
PTEN	P7482	1.7	5.0	1.4
PTEN	P3487	1.9	2.1	2.3
PUMA bbc3	P4743	2.0	6.5	1.2
PUMA bbc3	P4618	1.5	1.8	0.3
Pyk2	P3902	1.5	0.8	2.0
Pyk2 Phospho pTyr579 580	P6989	X	X	X
Pyk2 Phospho pTyr881	P6864	X	0.8	0.4
Pyk2 pTyr579	P7114	X	X	X
Pyk2 pTyr580	P6739	X	X	X
Rab5	R7904	1.4	1.2	1.0
Rab7	R8779	0.5	X	1.4
Rab9	R5404	0.3	X	1.1
RAD1	R5029	0.7	1.4	1.1
Rad17	R8029	0.2	X	0.4
Raf1	R5773	0.7	6.1	1.7
Raf1cRaf	R2404	0.3	0.6	0.8
RAIDD	R5275	X	1.0	0.1
RAIDD	R9775	X	0.9	trace
RALAR	R8529	0.5	0.3	1.2
Ran	R4777	0.6	2.2	0.9
RAP1	R8154	0.4	0.6	0.4
RbAp48 RbAp46	R3779	0.9	3.2	0.8
Reelin	R4904	0.6	1.6	1.7
Retinoblastoma	R6775	0.7	3.3	1.0
Retinoblastoma pSer795	R6878	X	0.3	0.4
RhoE	R6153	0.1	X	0.2
RICK	R9650	X	1.0	trace
RIP Receptor Interacting Protein	R8274	0.4	1.8	3.2
RNaseL	R3529	X	0.2	0.3
ROCK1	R6028	1.0	0.6	1.2
ROCK2	R8653	X	0.4	0.3
Rsk1	R5145	0.7	0.3	3.8
S Nitrosocysteine	N5411	1.1	0.7	1.7
S100	S2644	0.8	5.3	1.3
S100 α Subunit	S2407	0.3	X	0.6
S100 β Subunit	S2532	1.1	1.1	1.9
S6 Kinase	S4047	X	0.1	3.3
SAPK3	S0315	X	0.9	0.1
Serine Threonine Protein Phosphatase 1 β	P7484	0.3	X	1.0
Serine Threonine Protein Phosphatase 1 γ 1	P7609	0.3	X	0.9
Serine Threonine Protein Phosphatase 2 A By	P5359	0.1	trace	0.8

Serine Threonine Protein Phosphatase 2 A/A	P8109	0.4	trace	1.0
Serine Threonine Protein Phosphatase 2C α β	P8609	0.2	X	0.1
SerineThreonine Protein Phosphatase 2 A/B pan2	P8359	0.1	X	X
SGK	S5188	0.8	1.8	0.7
SHPTP2	S3056	1.0	0.5	0.7
Siah2	S7945	0.3	0.2	0.1
Sin3A	S4445	0.5	0.6	0.7
Sin3A	S6695	0.4	0.5	0.9
Sir2	S5313	X	X	0.5
SIRPα1	S1311	X	0.5	X
Sirt1	S5196	0.6	0.2	0.3
SKK2	S5308	X	1.1	trace
SKM1	S9568	1.1	0.5	1.8
SLIPR MAGI3	S1190	1.6	1.3	3.7
SLIPR MAGI3	S4191	1.5	0.3	1.0
SMAC Diablo	S0941	2.8	3.7	1.7
Smad4	S3934	5.2	4.5	7.3
SMC1L1	S6446	1.7	1.3	1.7
SMN	S2944	0.8	0.7	1.0
SNAP23	S2194	2.0	2.2	1.7
SNAP25	S9684	1.6	2.6	1.6
SNAP29	S2069	1.9	4.5	2.1
Sos1	S2937	2.2	4.3	2.2
Sp1	S9809	1.9	0.2	1.6
Spectrin α and β	S3396	X	X	0.3
Spred2	S7320	0.6	0.2	0.6
Striatin	S0696	0.9	1.4	0.5
Substance P Receptor	S8305	2.3	10.2	2.4
SUMO1	S5446	1.2	1.2	2.0
SUMO1	S8070	0.8	0.4	0.3
Survivin	S8191	2.6	5.0	1.6
SUV39H1 Histone Methyl Transferase	S8316	0.5	X	1.2
Synaptopodin	S9442	2.6	2.3	1.6
Synaptopodin	S9567	1.2	0.8	1.1
Synaptotagmin	S2177	1.6	0.5	1.1
SynCAM	S4945	0.4	X	0.5
Syntaxin	S0664	0.4	X	0.4
Syntaxin 6	S9067	0.8	0.4	1.1
Syntaxin 8	S8945	0.4	1.8	0.5
Tal	T1075	1.4	2.0	2.8
Tal	T1200	1.0	1.9	1.1
TAP	T1076	0.6	0.6	1.1
Tau	T5530	X	X	0.1
Tau	T9450	0.7	2.1	0.9
Tau pSer199 202	T6819	X	X	X
Tenascin	T2551	0.6	0.3	0.6
Thimet Oligopeptidase 1	T7076	0.8	0.4	0.6
TIS7	T2576	1.1	0.6	0.7
Tob	T2948	0.8	0.4	0.5
TOM22	T6319	1.5	1.1	1.9
Topoisomerasel	T8573	0.5	X	0.7
TRAIL	T9191	X	0.9	0.1
TRAIL	T3067	X	0.8	0.2
Transforming Growth Factorb pan	T9429	0.3	X	0.5
Transportin 1	T0825	1.5	1.0	2.9
TRF1	T1948	0.8	0.3	1.4

Tropomyosin	T9283	0.4	X	0.8
Tropomyosin	T2780	0.8	0.5	1.5
Tryptophane Hydroxylase	T0678	2.5	2.9	4.8
TSG101	T5826	0.3	0.6	0.3
Tubulin Polyglutamylated	T9822	0.8	0.6	0.5
Tubulin Tyrosine	T9028	1.1	0.7	1.0
Tumor Necrosis Factor Soluble Receptor II	T1815	X	X	X
Tumor Necrosis Factor α	T2824	2.4	3.0	0.7
Tumor Necrosis Factor α	T8300	1.6	0.5	1.3
TWEAK Receptor	T9700	0.5	0.5	1.2
Tyrosin hydroxylase	T2928	0.5	0.2	1.1
U2AF65	U4758	0.7	1.2	0.9
Ubiquitin	U0508	2.3	5.8	5.2
Ubiquitin C terminal Hydrolase L1	U5133	1.2	1.2	1.6
Ubiquitin Cterminal Hydrolase L1	U5258	1.5	2.4	2.0
Urotensin II	U0757	X	7.8	2.8
Uvomorulin ECadherin	U3254	1.7	0.1	0.8
Vanilloid Receptor1	V2764	0.4	2.2	1.4
Vascular Endothelial Growth Factor Receptor1VEGFR1	V4762	1.1	0.9	3.1
VDAC Porin	V2139	X	2.6	1.2
Vesicular GABA Transporter	V5764	0.6	1.2	1.0
VGLUT 2	V2639	1.4	1.2	1.0
VGLUT1	V0389	0.9	1.8	1.5
Vimentin	V6389	0.3	0.2	0.2
Vinculin	V4505	0.3	0.3	0.9
Vitronectin	V7881	X	X	0.3
WAVE	W0392	X	0.4	0.1
WSTF	W3516	X	X	0.1
Y14	Y1253	0.4	0.3	0.3
ZAP70	Z0627	X	0.1	0.1
Zip Kinase	Z0134	0.3	X	X
Zyxin	Z0377	0.3	X	0.2
α E Catenin	C8114	1.6	3.7	1.4
α/β SNAP	S9444	1.6	4.1	1.6
α 1 Syntrophin	S4813	1.2	2.2	1.4
α 1Syntrophin	S4688	1.2	1.8	1.4
α Actinin	A5044	2.0	1.0	4.0
α Catenin	C2081	0.9	3.5	4.2
α Internexin	I0282	1.0	0.6	1.8
α MSH	M0939	0.9	1.5	1.7
α NCatenin	C8239	1.8	6.5	1.9
α Synuclein	S3062	0.9	4.9	1.1
α Tubulin	T6199	1.5	2.5	3.0
α Tubulin	T6074	0.9	1.2	1.6
β 1 and β 2 Adaptins	A4450	0.4	X	0.6
β Actin	A2228	0.5	0.5	0.8
β Actin	A1978	0.5	0.3	0.9
β Amyloid	A8354	0.6	0.2	0.3
β Catenin	C7082	1.2	0.7	1.3
β Catenin	C7207	0.3	0.1	0.3
β Catenin pSer33	C2363	1.3	3.2	2.8
β Catenin pSer33pSer37	C4231	0.7	0.4	0.6
β Catenin pThr41	C8616	0.6	0.1	0.6
β COP	G6160	1.3	3.2	0.6
β Tubulin	T5201	1.1	1.4	0.9

βTubulin I	T7816	1.4	2.7	1.8
βTubulin I II	T8535	0.6	0.7	0.7
βTubulin III	T5076	2.0	1.3	1.4
βTubulin IV	T7941	0.9	1.0	0.5
γParvin	P5746	0.7	0.3	1.6
γTubulin	T3559	1.7	3.9	1.7
γTubulin	T3320	1.8	1.5	1.1
γTubulin	T5326	0.5	0.3	0.4
δ-Catenin/NPRAP	C4864	1.9	0.1	1.4
ε Tubulin	T1323	1.6	2.0	0.5