

Table 1S: Identified Six Protein-Mix peptides

<i>Sequence</i> ^a	<i>Num. of Labels</i>	<i>Calculated [MH]⁺ labeled</i> ^c	<i>Found [MH]⁺ labeled</i> ^c
Bovine Serum Albumin (P02769)^b			
1. YLYEIAR	1	1071.60	1071.61
2. ATEEQLK	2	1106.64	1106.65
3. LVVSTQTALA	1	1146.69	1146.70
4. AEFVEVTK	2	1210.70	1210.71
5. CCTESLVNR	1	1260.54	1260.54
6. NECFLSHK	2	1311.65	1311.66
7. EACFAVEGPK	2	1384.69	1384.70
8. HPEYAVSVLLR	1	1427.84	1427.83
9. LVNELTEFAK	2	1451.84	1451.85
10. LGEYGFQNALIVR	1	1623.90	1623.91
11. VPQVSTPTLVEVSR	1	1655.95	1655.96
12. SLHTLFGDELCK	2	1696.87	1696.89
13. DAFLGSFLYEYSR	1	1711.85	1711.86
14. ETYGDMADCCEK	2	1744.67	1744.68
15. EYATLEECCA K	2	1768.76	1768.77
16. DDPHACYSTVFDK	2	1831.83	1831.84
17. ECCHGDLLECADDR	1	1860.67	1860.68
18. YNGVFQECCQAEDK	2	2013.85	2013.86
19. LFTFHADICTLPDTEK	2	2185.10	2185.11
20. DAIPENLPPLTADFAEDK	2	2244.17	2244.18
β-Galactosidase (P00722)^b			
1. SLNGEWR	1	1005.53	1005.54
2. YWQAFR	1	1014.53	1014.54
3. FNDDFSR	1	1044.49	1044.50
4. QNNFNAVR	1	1106.59	1106.60
5. WLPAMSER	1	1133.59	1133.60
6. WVGYGQDSR	1	1211.60	1211.61
7. GDFQFNISR	1	1227.63	1227.64
8. IDPNAWVER	1	1243.66	1243.67
9. LAAHPPFASWR	1	1396.76	1396.77
10. HQQQFFQFR	1	1409.72	1409.73
11. ELNYGPHQWR	1	1443.73	1443.74
12. LWSAEIPNLYR	1	1505.83	1505.84
13. LPSEFDLSAFLR	1	1538.84	1538.85
14. DWENPGVTQLNR	1	1572.79	1572.80
15. QFCMNGLVFADR	1	1590.74	1590.75
16. APLDNDIGVSEATR	1	1601.83	1601.84
17. LSGQTIEVTSEYLFR	1	1887.00	1887.01
18. VNWLG LGPQENYPDR	1	1901.97	1901.98

19.	WSDGSYLEDQDMWR	1	1931.84	1931.85
20.	IENGLLLLNGKPLLIR	2	2064.32	2064.34
21.	DVSLHHPKPTTQISDFHVATR	2	2553.41	2553.43
22.	QLIELPELPQPESAGQLWLTVR	1	2661.48	2661.50
23.	VVQPNATAWSEAGHISAWQQWR	1	2666.34	2666.36
α-Lactalbumin (P00711) ^b				
1.	VGINYWLAHK	2	1488.86	1488.87
2.	FLDDDLTDDIMCVK	2	1976.93	1976.95
β-Lactalbumin (P02754) ^b				
1.	IDALNENK	2	1204.68	1204.69
2.	LIVTQTMK	2	1221.76	1221.77
3.	VLVLDTDYK	2	1353.79	1353.80
4.	VAGTWYSLAMAASDISLLDAQSAPLR	1	2851.48	2851.50
Lysozyme (P00698) ^b				
1.	HGLDNYR	1	1018.52	1018.53
2.	GTDVQAWIR	1	1189.65	1189.66
3.	FESNFNTQATNR	1	1572.76	1572.77
4.	NTDGSTDYGILQINSR	1	1897.94	1897.95
Apotransferrin (P02787) ^b				
1.	APNHAVVTR	1	1108.64	1108.65
2.	ASYLDCIR	1	1130.55	1130.56
3.	DSAHGFLK	2	1162.65	1162.66
4.	DGAGDVAFVK	2	1266.70	1266.71
5.	WCALSHHER	1	1328.61	1328.62
6.	EGYYGYTGAFR	1	1427.67	1427.68
7.	DYELLCLDGTR	1	1487.70	1487.71
8.	SASDLTWDNLK	2	1537.82	1537.83
9.	EFQLFSSPHGK	2	1564.84	1564.85
10.	MYLGYEYVTAIR	1	1622.84	1622.85
11.	DQYELLCLDNTR	1	1672.78	1672.80
12.	CGLVPVLAENYK	2	1753.93	1753.94
13.	DCHLAQVPSHTVVAR	1	1822.92	1822.934
14.	TAGWNIPMGLLYNK	2	1866.03	1866.04
15.	LCMGSGNLNCEPNNK	2	1972.91	1972.92
16.	SAGWNIPIGLLYCDLPEPR	1	2304.17	2304.18
17.	EDLIWELLNQAQEHFGK	2	2358.24	2358.26
18.	QQQHFLFGSNVTDCSGNFCLFR	1	2637.16	2637.18

^aAmino-acid sequences of peptides identified after tryptic digestion and iTRAQ labelling on the basis of their CID spectrum. ^bAccording to “UniProtKB” (<http://www.uniprot.org/>) and Applied Biosystems iTRAQ™ Reagents - Chemistry Reference Guide. ^cAll mass values are listed as monoisotopic mass.

Table 2S: Identified proteins and peptide sequences from Tumoral and Non Tumoral prostate tissue by MS/MS Data Processing

	Protein ID	Protein Name	m/z	N° of labels	Modifications
1	P63104	14-3-3 protein zeta/delta			
		DSTLIMQLLR	1333.76	1	
		TAFDEAIAELDTLSEESYK	2276.09	1	
		YLAEVAAGDDK	1295.66	1	
2	Q9P2A4	ABI gene family member 3			
		SIKAPATPASATLGRPPR	1935.13	1	
		LSAASSAFSLASAGSAEGVGGAPTPK	2435.25	1	
		DNELSFSEGTVICVTR	1913.94	1	
3	P68032	Actin, alpha cardiac muscle 1			
		HQGMVGMGQK	1315.67	1	
		SYELPDGQVITIGNER	1934.99	1	
		AGFAGDDAPR	976.45	----	
		AGFAGDDAPR	1120.55	1	
		ALPHAIMR	1052.62	1	
		AVFPSIVGR	945.55	----	
		AVFPSIVGR	1089.65	1	
		AVFPSIVGRPR	1198.71	----	
		AVFPSIVGRPR	1342.81	1	
		EITALAPSTMK	1287.71	2	Glu->pyro-Glu@N-term
		GILTLK	932.64	2	
		GYSFVTTAER	1130.55	----	
		GYSFVTTAER	1274.65	1	
		HQGMVGMGQK	1458.77	1	Diphthamide(H)@1 Deamidated(Q)@2
		HQGMVGMGQK	1459.78	2	
		IIAPPERK	1067.67	1	
		KAGFAGDDAPR	1120.54	----	Oxidation(D)@7
		KAGFAGDDAPR	1120.54	1	Oxidation(F)@4
		MTQIMFETFNVPMYVAIQAVLSLYASGR	3251.63	----	
		RGILTLK	944.64	1	iTRAQ4plex(K)@7
		SGGTTMYPGIADR	1325.62	----	
		SYELPDGQVITIGNER	1790.89	----	
		TTALVCDNGSGLVK	1522.79	1	Deamidated(N)@8
4	P25054	Adenomatous polyposis protein			
		SSADSTSARPSQIPTVNNNTK	2416.22	1	
		VTPFNYNPSPRK	1563.84	1	
		TDSTESSGTQSPK	1468.69	1	
		QNVGNQSVPMRTVGLNLR	1927.98	----	
5	O95996	Adenomatous polyposis coli protein 2			
		GGKEAEK	1006.58	2	
		AGTEAGPGARGGR	1156.58	----	
		DPLNLALR	911.53	----	
		GGGAGGAGLHF	900.43	----	
		MTRDPLNLALR	1300.70	----	Deamidated(N)@7
		PEKRGAAASVK	1186.70	----	
		RPEKRGAAASVK	1342.80	1	
		RRRKPR	1012.67	1	
		SAEQSRGAGK	1134.60	1	
6	Q08462	Adenylate cyclase			
		KQWLK	1134.71	3	
		EKIK	949.68	2	
		FSGVEK	954.73	1	
		GIINVK	932.68	1	Deamidated(N)@4
		QNEYCYR	1120.65	1	Deamidated(N)@2
		SLSQSNVA	1029.40	1	Phospho(S)@5
		TKSQ	911.55	1	Phospho(T)@1; Phospho(S)@3
7	P51825	AF4/FMR2 family member 1			
		GSRSSSADK	1038.53	1	
		AGSRTSLQGGR	1089.58	----	
		TLNKHFESSSK	1421.75	1	
		SFSDATAPTOEKIFAVLCMR	2359.19	1	
		SAYSVYSETVDLIK	1718.89	1	
8	P10696	Alkaline phosphatase, placental-like			

		AGKSVGVTTR	1175.67	----	
		GNEVISVMNR	1134.56	----	Oxidation(M)@8
		KAYTVLLYGNGPGYVLK	2000.13	1	
		GSSIFGLAPGK	1177.67	1	
		NLVQEWLAK	1244.71	1	
		HQGARYVWNR	1287.63	----	Deamidated(Q)@2
		LQPAQTAAK	927.53	----	
9	Q99490	Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2			
		RTSLFANRR	1120.63	----	
		DPGSPRGAEPEGK	1440.72	1	
		ELLGAE LR	900.51	----	
		KQQQLLAACK	1274.74	1	
		VFQEVAQK	1092.61	1	
		RTSLFANRR	1120.63	----	
		AKPSRDSSR	1147.63	1	
10	Q8TF01	Arginine/serine-rich protein PNISR			
		SRSPTIK	932.56	1	
		ARVKIRDRR	1169.73	----	
		EKKDFK	939.49	1	
		EYQMMLLTK	1300.68	1	
		KEKEK	949.59	2	
		KEKK	964.65	3	
		KEKQK	949.59	2	Deamidated(Q)@4
		KKEK	964.65	3	
		KKPK	932.66	3	
		QMEEEK	937.44	1	
		RSRSRDR	932.51	----	
		SESPGSSK	922.46	1	
		SIDKDRKK	1421.88	3	
		SRSPTIK	933.55	1	Deamidated(R)@2
		SRSRDRR	932.51	----	
11	O14525	Astrotactin 1			
		HASGPGLK	910.52	1	
		NFRCSDRK	1282.68	1	
		RRSRVGS PR	1070.63	----	
		RSSLKYLGCR	1182.64	----	
		SSLKYLGCR	1170.64	1	
		TLWGV DNTGRR	1274.66	1	
12	Q4LE39	AT-rich interactive domain-containing protein 4B			
		ACTGQKRVK	1134.65	1	
		ACTGQKRVK	1134.65	1	
		CAYKK	900.52	2	
		IDHLTNNR	983.49	----	Deamidated(N)@7
		KENIK	919.58	2	
		LLNNSDER	960.47	----	
		NKLDK	906.55	2	Deamidated(N)@1
		SPARTQSPGK	1172.65	1	
		VKDAQGGSSSK	1120.56	----	
13	O75815	Breast cancer anti-estrogen resistance protein 3			
		EKLK	949.64	3	
		QNEAPGPR	1012.63	1	
		EQNLPR	900.54	1	
		QNEAPGPR	1012.58	1	
14	Q9UIF8	Bromodomain adjacent to zinc finger domain protein 2B			
		EREK LK	1090.68	2	
		AESVQIK	918.54	1	
		ASGQTLKIK	1089.67	1	
		CNQEQSK	980.46	1	
		GIREKALQK	1186.74	1	
		GQTKSTSSGGG NR	1237.58	----	Deamidated(N)@12
		IKEKEMRR	1089.62	----	
		KKPK	932.66	3	
		KQQEK	949.56	2	Deamidated(Q)@3
		NKDLK	906.55	2	Deamidated(N)@1
		QKEQIK	918.54	1	Deamidated(Q)@1
		QKEQIK	918.54	1	Deamidated(Q)@4

		SVMFGQDR	939.43	----	
		TGEDESSAHALERK	1673.82	1	
		VYCQICRK	1156.61	1	
15	Q9NYQ7	Cadherin EGF LAG seven-pass G-type receptor 3			
		MQVEPR	903.62	1	
		TAPEPAPK	939.67	1	Glu->Asn@4
		AATLGHR	949.61	1	Phospho(T)@3
		FRRAANR	1034.66	1	
		GLLSVTVTR	1089.77	1	
		LAQRLR	900.54	1	
		MQVEPRNVDR	1387.91	1	
		VTSANRAR	1098.44	1	Phospho(S)@3
16	O15484	Calpain-5			
		GGLISASIK	989.61	1	
		GGGCINHK	929.47	1	
		RKRPK	972.67	2	
		DEFLGQVHLK	1329.73	1	
17	Q66K79	Carboxypeptidase Z precursor			
		LLGCAVLAPR	1012.60	---	
		NPAATCVDLQLR	1300.67	---	
		MFSPTPEK	1195.58	1	
		GVVTDKFGKPVK	1418.85	1	
		VIIPARMK	1071.68	1	
18	P35222	Catenin beta-1			
		MVALLNK	932.57	1	
		AHQDTQRR	1011.51	----	
		AHQDTQRR	1012.49		Deamidated(Q)@3
		AIPELTK	915.56	1	
		AVRLAGGLQK	1156.73	1	
		MAVRLAGGLQK	1287.77	1	
		EASRHAIMR	1052.54	----	Glu->pyro-Glu@N-term
		NEGVATYAAAVLFR	1481.77	----	
		RLVQLLVR	996.67	----	
19	Q96P48	Centaurin-delta-2			
		LRPPTCWGFTVVHETEK	2144.11	1	
		SVAaftADPLSLLR	1460.81	----	
		VYLGVK	822.52	1	
		YFILNSSCLRLYK	1763.96	1	
20	Q9HC77	Centromere protein J			
		SLSPSGLK	932.55	1	
		DRASEFK	996.52	1	
		KLQKER	1089.70	2	
		KQEQLK	918.54	1	Deamidated(Q)@2
		KTALKNK	1090.72	2	
		NYLPMQGNPPR	1287.62	1	Deamidated(N)@8
		QKQLK	932.61	2	
		RQQLEQLQR	1198.67	----	
		RSKSAPPR	1042.62	1	
		VQRDGNK	960.53	1	
		VTEIQEANDK	1274.62	----	
		SGRIRVK	959.62	1	
21	O14647	Chromodomain-helicase-DNA-binding protein 2			
		RHMDAHRR	938.44	----	Oxidation(M)@3
		DAELVVK	933.50	1	
		KDVEK	906.55	2	
		KKEK	964.65	3	
		KKPK	932.66	3	
		QKKVK	918.63	2	
		RHMDAHRR	922.44	----	
22	Q8TD26	Chromodomain-helicase-DNA-binding protein 6			
		KAKEHK	1172.75	3	
		AKEHK	900.55	2	
		ASLKLGLDK	1088.68	1	
		DEKIK	920.57	2	
		DREPKPKR	1313.79	2	
		DTGPRRRGR	1070.59	----	
		GGTNGVQQLSK	1089.55	----	Deamidated(N)@4
		GSKDREPK	1060.59	1	

		KKEK	964.65	3	
		KKKTK	1064.75	3	
		LDNICHVVVK	1298.72	1	Deamidated(N)@3
		MKIQKK	1064.67	2	Deamidated(Q)@4
		MKIQKK	1079.68	2	Oxidation(M)@1
		NYAQHK	905.46	1	Deamidated(N)@1
		PTGEEVK	903.49	1	
		QKKEK	949.59	2	Deamidated(Q)@1
		RRGRK	972.64	1	
		RRRRGRR	1012.65	----	
		RSGRQVKR	1130.70	1	
		TKSRK	907.59	2	
		VGMPDEK	919.47	1	
		YYRAILEK	1055.59	----	
23	Q02388	Collagen alpha 1(VII)			
		EGPRGPK	1028.69	2	
		AQHRER	940.61	1	
		DGVPGIRGEK	1315.75	2	
		EGPRGPK	1028.67	2	
		GDSAVILGPPGPR	1379.85	1	
		GEPGEMGLR	1089.71	1	
		GPRGLK	915.53	2	
		GSSGPK	900.59	2	Phospho(S)@3
24	P08123	Collagen alpha 2(I) chain			
		TGHPGTVGPAGIR	1363.75	1	
		GPRGLPGLK	1038.65	1	
		GETGSPGVPAGAVGPRGPSGQGIR	2412.24	----	
		DGNPGNDGPPGRDQPGHK	2015.93	1	
25	P08572	Collagen alpha 2(IV) chain			
		EGFPGPPGFIGPR	1471.97	1	
		GRPGLK	915.53	2	
		GEAGFFGIPGLK	1336.74	1	
		ATPFIECNGGR	1308.65	1	
26	P12277	Creatine kinase B-type			
		GGNMKEVFTR	1282.67	1	
		VISMQKGGNMK	1336.72	1	
		LPNLGKHEK	1179.69	1	
		AIEKLAVEALSSLDGDLAGR	2028.10	----	
27	Q9P0U4	CXXC-type zinc finger protein 1			
		HYCWEKLR	1134.55	----	
		KIRQK	960.65	2	
		HYCWEK	1009.47	1	
		LPKR	657.45	1	
		VPADEVCGCPLVR	1501.76	1	
28	Q9NZJ0	Denticleless protein homolog			
		KAENPSPR	1042.58	1	
		CNKKDGFYR	1274.64	1	
		ICTYFHR	939.45	----	
		KNYTAYR	1060.55	1	Deamidated(N)@2
		KPKK	932.66	3	
		NRVKRR	972.63	1	
		RKAENPSPR	1198.68	1	
		TSPAKARSPINR	1441.84	1	
		VWDLRK	960.57	1	
29	P17661	Desmin			
		KVHEEEIR	1327.75	2	
		AQYETIAAK	1282.72	2	
		KLLEGEESR	1348.85	2	
		HLKDEMAR	1287.70	2	
		QELNDR	918.47	1	
		EEIQLK	903.52	1	
		EIQLK	918.58	2	
		LLEEIR	932.51	1	
30	Q08554	Desmocollin - 1A/1B precursor			
		DTGDIFCTRSIDR	1498.70	----	
		DTALKRRTK	932.55	----	
		EQQEIK	919.49	1	Deamidated(Q)@3
		GGGHQTLESVK	1256.67	1	
		GGYTLDSNK	1098.55	1	

31	Q14117	Dihydropyrimidinase			
		DRTCTPTPVER	1274.61	----	
		KPFAEYIYKR	1458.82	1	
		GKVVYEAGVFSVTAGDGK	1928.02	1	
		EDATAGTR	964.48	1	
32	Q9Y485	DmX-like 1 protein			
		SSNESTLSK	952.46	----	
		SILRKK	1032.71	2	
		KAINNVR	958.59	1	
		ILSPFSQK	1064.61	1	Deamidated(Q)@7
		HQLLISGGR	980.56	----	
		ENFQEK	938.47	1	
33	Q9NPF5	DNA methyltransferase 1-associated protein			
		KAPKKK	1275.90	4	
		FPDFKSAGVTLR	1337.72	----	
		MFFHWR	939.43	----	Oxidation(M)@1
		LPSSVGQK	959.56	1	
		RSVEDLK	990.57	1	
		WMPFTNPAR	1120.52	----	Deamidated(N)@6
		RESASSSSVK	1268.65	1	
34	Q92878	DNA repair protein RAD50			
		NIDQCSEIVK	1292.67	1	
		SEYVEKFYR	1364.69	1	
		NFQLLVITHDEDFVELLGRSEYVEK	3137.62	1	
		NFQLLVITHDEDFVELLGR	2258.18	----	
		NFQLLVITHDEDFVELLGR	2402.28	1	
35	O60870	DNA/RNA-binding protein KIN17			
		QDLLDEEK	1135.52	1	
		FIEEQVR	920.48	----	
		HKKK	972.67	3	
		KEKK	964.65	3	
		TIGSSASVK	993.57	1	
36	Q8TD84	Down syndrome cell adhesion molecule-like protein 1			
		SAQGEGDDVKK	1421.74	2	
		SEAFFRK	1028.56	1	
		SAHSTRNR	928.47	----	
		VQLLIEDK	1101.66	1	
		HLTLDPASK	1125.64	1	
37	Q96DT5	Dynein heavy chain 11, axonemal			
		QDHYDWGLR	1189.54	----	
		GWARCVLPPRR	1342.72	----	Dioxidation(C)@5
		KKLVLDLR	1274.80	2	
		KIELK	918.62	2	
		QRECEADLLK	1348.70	1	
		LEKLK	918.62	2	
		NLLKK	903.62	2	
		ELEAKKIR	1274.80	2	
		DRSWKAAK	1249.72	2	
		IGLQTEK	932.55	1	
		MLETAYK	999.53	1	
		LVNGIQKLLK	1300.85	2	
		RMLETAYK	1155.63	1	
		ANPSLDTWK	1175.62	1	
		NTIKKGG	932.60	1	
		YLLMLKK	1052.66	1	
		IGLQTEKVSR	1130.65	----	
		RMLETAYK	1011.53	----	
		LASYFMGR	960.46		Oxidation(M)@6
38	Q8WXX0	Dynein heavy chain 7, axonemal			
		KDPREK	1060.63	2	
		RFTAVDK	980.56	1	
		AFASSVTPDR	1050.52	----	
		EFIMGLFDR	1127.55	----	
		QAALKEVQDK	1237.72	1	
		SVLTAAGNLKLLK	1358.85	1	
39	Q03001	Dystonin			
		NTGHLHPTPR	1130.57	----	Deamidated(N)@1
		AVLRIADER	1042.60	----	

		DSVICEDK	1052.50	1	
		EAAENELR	932.43	----	Deamidated(N)@5
		EKGRMR	920.52	1	
		FYVAEK	900.49	1	
		KDQAEK	1006.58	2	
		KEKQK	949.59	2	Deamidated(Q)@4
		NTGHLHPTPR	1130.57	----	Deamidated(N)@1
		NTNIARK	960.57	1	
		PHHDRRGFPR	1274.66	----	
		QALYYSELLR	1238.64	----	Gln->pyro-Glu@N-term
		RRVAAAAAAR	1012.61	----	
40	P14625	Endoplasmic			
		ETLQQHK	1172.81	2	Deamidated(Q)@5
		ALKDK	1006.62	3	
		DKIEK	1064.72	3	
		EEEEKK	1079.73	2	
		EEEEKK	935.63	1	
		EELTVK	1006.64	2	
		EKSEK	1052.72	3	
		ETLQQHK	1172.77	2	Deamidated(Q)@5
		ETLQQHK	1028.67	1	Deamidated(Q)@5
		KIEK	949.68	3	
		TLDMIK	1088.72	3	Phospho(T)@1;
41	Q96J88	epithelial stromal interaction protein 1			
		VNNAFLDR	1092.59	1	
		QQEQER	945.44	----	
		SELLELKR	1131.68	1	
		AKIHQTEHR	1263.70	1	
42	Q8TAM0	G protein-coupled receptor 62			
		GSRLRSDSLDSR	1348.69	----	
		GSRLRSDSLDSR	1462.79	1	
		AALRPPRPARGSRLR	1674.01	----	
		AALRPPRPARGSRLR	1818.11	1	
		ACTPQAWHPR	1310.65	1	
43	O94808	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 2			
		CGIFAYMNYR	1237.55	----	
		DDTESSK	925.42	1	
		TCTLENVK	1052.54	1	Deamidated(N)@6
		NLAKSVTVE	1104.64	1	
		DPCFAKCQNALQQVTAR	1892.91	----	
44	Q6PCE3	Glucose 1,6-bisphosphate syntase			
		LIDALIENFLQPSK	1600.89	----	
		LIDALIENFLQPSK	174499	1	
		TSGTEPKIK	1104.63	1	
		DVTTGYDSSQPNK	1555.73	1	
45	P30711	Glutathione S-transferase theta 1			
		LMPWVLAMIR	1373.79	1	
		DFPPADPTIK	1244.66	1	
		LATWRQR	930.53	----	
		DFPPADPTIKQK	1644.91	2	
46	Q9NU53	Glycoprotein integral membrane protein 1			
		INVTTLK	932.59	1	
		VDVIPVTAINLYPDGPEK	2084.13	1	
		VFFPVSEYK	1259.68	1	
		GILQLDK	930.58	1	
47	Q14789	Golgin subfamily B member 1			
		MVQLNEEK	1135.58	1	Deamidated(N)@5
		AKQQIQRK	1287.81	2	
		AMSSLQNDR	1021.47	----	
		EEEIRLK	1060.61	1	
		EKCLK	934.58	2	
		EMEIEK	922.47	1	
		KEKK	964.65	3	
		KLEEK	934.58	2	
		LKTIK	932.64	2	Acetyl@N-term
		LSALFSSSQK	1211.68	1	
		SMSSLQDDR	1038.45	----	
		SMSSLQNDR	1038.45		Deamidated(N)@7

48	Q99062	Granulocyte colony stimulating factor receptor			
		QRQLDPR	1056.70	1	
		KENIR	947.62	2	
		LEPPMLR	999.41	1	
		SFKSR	916.58	2	Phospho(S)@1; Phospho(S)@4
		LTVLEEDEK	1219.65	1	
49	Q03113	Guanine nucleotide-binding protein subunit alpha-12			
		GSRVLVDAR	972.56	----	
		IHGREFDQK	1386.76	1	
		DTILQENLK	1217.68	1	
		YLVQCFDR	123710	1	
		YLVQCFDRK	1315.69	1	
50	Q96LI6	Heat shock transcription factor, Y-linked			
		ESSVLSKLK	1134.69	----	
		LALQSPPLDK	1225.72	1	
		SAAPHSR	906.10	1	
		YPLVSVNEAPYR	1407.73	----	
		NLNMPLTR	1102.61	1	
51	P69905	Hemoglobin subunit alpha			
		GHGKK	958.69	3	
		VGAHAGEYGAEALER	1673.92	1	
		VLTSK	915.53	2	Phospho(S)@4
		VDPVNFK	962.54	1	
		LRVDPVNFK	1231.72	1	
52	P68871	Hemoglobin subunit Beta			
		VVAGVANALAHKYH	1593.89	1	
		VVAGVANALAHKYH	1737.99	2	
		EFTPPVQAAAYQK	1522.80	1	
		LHVDPENFR	1270.66	1	
53	P09105	Hemoglobin subunit theta-1			
		FLSHVISALVSEYR	1764.97	1	
		HYPGDFSPALQASLDK	1889.95	1	
		VADALS LAVER	1257.74	1	
54	Q8TEK3	Histone-lysine N-methyltransferase, H3 lysine-79 specific			
		HSPLTASAR	939.50	----	
		KPKK	932.66	3	
		RRGRRK	972.64	1	
		LTSLPHK	939.57	1	
		EAGEGGLPLCGPTDK	1443.68	----	
		TPLLSGKAAK	1129.70	1	
		TPLLSGKAAK	1273.81	2	
55	P17482	Homeobox protein Hox-B9			
		RMKMKK	1253.79	3	
		DRRHEVAR	1038.55	----	
		DRRHEVAR	1182.66	1	
		SANWLHAR	954.49	----	
		QVKIWFQNR	1362.77	1	
		LLNLSER	988.59	1	
56	Q9HAS2	Homeodomain-interacting protein kinase 3			
		GTNEIVAIAK	1088.64	1	
		FSPLPLK	945.59	1	
		GTFGQVVK	979.57	1	
		ILKNHPSYAR	1198.67	----	
		KKNK	949.65	3	
		NKQCQNR	1034.53	1	
		PENIMLVDPVR	1282.68	----	
57	P42858	Huntingtin			
		KELSATK	1064.66	2	
		GATAILCGTLICILSRSR	1935.05	----	
		SPIRRK	900.59	1	
		HQIEEELDRR	1468.76	1	
		LEQVDVNLFLCLVATDFYR	2145.07	----	
		KGFPCEAR	907.44	1	
58	Q9Y4L1	Hypoxia up-regulated protein 1			
		TLGLEMELR	1134.58	----	Oxidation(M)@7
		EKKQK	949.59	2	Deamidated(Q)@4

		LAGLFNEQRK	1175.65	----	
		LCQGLFFR	949.53	----	Cys->Dha(C)@2
		NATLAEQAK	1089.60	1	
		VFGSQNLTTVK	1337.75	1	
59	P23677	Inositol 1,4,5-trisphosphate 3-kinase A			
		RGGQVPNGLQR	1182.63	----	Deamidated(Q)@10
		RGGQVPNGLQR	1181.65	----	
		APRRSVGELR	1182.67	----	Acetyl@N-term
		ARERPK	900.55	1	
		GGQVPNGLQR	1025.55	----	
		KDMYK	972.54	2	
		AGVWLIDFGK	1249.70	1	
60	O15503	Insulin-induced protein 1			
		REWASVMR	1034.52	----	
		ASAAGLAAK	903.53	1	
		EWASVMR	1022.52	1	
		CIAVFVGINHASAK	1573.86	1	
61	P24593	Insulin-like growth factor binding protein 5 precursor			
		QESEQGPCRR	1189.54	----	
		ASLQELK	932.55	1	
		KKLTQSK	1120.73	2	
62	Q9BR39	Junctophilin 2			
		EAAARAPK	939.55	1	Glu->pyro-Glu@N-term
		RMLQLK	932.58	1	
		ETPAKLEPKPIPK	1705.03	1	
		GPEPARETPAK	1152.60	----	
63	Q01546	Keratin, type II cytoskeletal 2 oral			
		SGGAGGGACGFR	996.43	----	
		KLLEGEECR	1220.64	1	
		DYQELMNVK	1283.64	1	
		AKDDLAR	932.53	1	
64	Q96L93	Kinesin-like protein KIF-16B			
		HTICEFSPFFK	1499.74	1	
		HTICEFSPFFK	1627.84	1	
		HTICEFSPFFK	1771.94	2	
		LFGNKDER	1122.60	1	
		YAEAALEFPPKK	1476.81	----	
		YAEAALEFPPKK	1620.91	1	
65	Q8N4N8	Kinesin-like protein KIF2B			
		RALDVNTR	944.53	----	
		DTTISGK	865.47	1	
		IPYVQSEEQK	1364.71	1	
		GHYPIGHEAPR	1377.71	1	
66	Q32MZ4	Leucine-rich repeat flightless-interacting protein 1			
		EEEQVK	905.47	1	
		AMVSNAQLDNEK	1463.73	1	
		EEEQVK	905.47	1	
		EELNALK	960.55	1	
		EEMLEK	922.47	1	
		KKNK	949.65	3	
67	Q9UNZ5	Leydig cell tumor 10 kDa protein homolog			
		GGRVIAPK	941.60	1	
		KGAAAATSSK	1035.59	1	
		KIEHDVVMK	1242.70	1	
68	Q9H2C1	LIM/homeobox protein Lhx5			
		AAFAATPKPTR	1130.63	----	
		EGSLNSVSSCTDR	1354.59	----	
		HAFRSPR	1161.64	1	
		QLSALGAR	959.57	1	
		GPRTTIK	916.57	1	
69	O75334	Liprin-alpha2			
		QMEEKNR	934.44	----	
		KAPKKK	1275.90	4	
		KGIKSSIGR	1089.69	1	
		KHRRK	1012.67	2	
		KKEK	964.65	3	
		QNYEMAQMK	1287.58	1	Deamidated(N)@2

		RLDESDDK	1121.55	1	
70	Q9NZR2	Low-density lipoprotein receptor-related protein 1B			
		RDGRNPTILR	1198.66	----	Deamidated(N)@5
		DKSDEK	1009.54	2	
		NCETSCSK	1015.43	1	
		NELFLFYGK	1274.69	1	
71	Q9H239	Matrix metalloproteinase-28			
		YWRLDQAK	1223.66	1	
		LILFKGAR	1061.69	1	
		RPETQGPK	1056.59	1	
72	Q9NR99	Matrix-remodeling-associated protein 5			
		NILGSDSK	977.54	1	
		DAGFYK	844.43	1	
		LNCMAMGIPKADITWELPDK	2390.20	1	
		VSLLDNGTLTVR	1287.73	----	
		VGLKPEANK	1099.66	1	
73	Q96JG8	Melanoma-associated antigen D4			
		FIAQNQNR	1134.61	1	
		ARHETSK	972.53	1	
		ASEAVLWEALRK	1372.76	----	
		LITDDFVKQK	1350.77	1	
74	Q8NFU7	Methylcytosine dioxygenase TET1			
		LSLVFYQHK	1278.73	1	
		RELHATTPVEHPNR	1656.86	----	
		FEAKEAK	966.53	1	
		SETEPHFILK	1344.72	1	
		AAMMTEVLAKIR	1614.89	1	
		TCFTQPVPR	1048.52	----	
75	P11137	Microtubule-associated protein 2			
		SSLEKHRK	984.56	----	
		AGKSGTSTP	949.51	1	
		ARVDHGAEIITQSPGR	1706.89	----	
		ASGLNIDDR	960.47	----	
		CGSLKNIR	1034.59	1	
		DFKEK	954.55	2	
		EEEQIEK	1048.53	1	
		EFDQEK	939.45	1	
		EHAKK	900.55	2	
		EPSTVSRDEVK	1274.63	----	
		GGRGEGLVK	900.50	----	
		KEKPFK	1064.67	2	
		KLEEK	934.58	2	
		MFTIDPK	1011.53	1	Oxidation(M)@1
		NIRHRPGGGR	1120.61	----	Deamidated(N)@1
		SSVASPRRL	972.56	----	
76	Q9NU22	Midasin			
		QFFDRVQAK	1282.70	1	
		DTSPVFQR	949.47	----	
		GSCVPHPSR	939.45	----	
		KELSPALRNR	1327.79	1	
		KKLQK	932.65	2	
		LTEYQK	925.51	1	
		MCLTFMK	1033.50	1	Oxidation(M)@1
		MRTEEDK	1052.52	1	
		QFFDRVQAK	1282.70	1	
		QGGGRKGLPR	1169.70	1	
		QLEMWQPR	1070.51	----	Gln->pyro-Glu@N-term
		RHTEKSTK	1274.74	2	
		RNLPPGIR	922.55	----	
		SGGKELEGKQK	1361.75	1	
		TTAMNAQRLLR	1274.70	----	
		VLNKVLAIR	1169.78	1	
		LKTIK	932.64	2	Acetyl@N-term
77	P08235	Mineralocorticoid receptor (MR)			
		RNDCHDK	1120.59	1	
		NDCIIDKIR	1089.57	----	
		PENVSSSTLR	1089.55	----	
		PSTLSCVNTPLR	1287.67	----	

		QMIQVVK	989.59	1	
		RNDCIIDK	976.49	----	
78	O60336	Mitogen-activated protein kinase-binding protein 1			
		RLLDKWVELR	1327.78	----	
		GGKQQGPSSPQR	1370.72	1	
		GSQGEDGTLIK	1249.63	1	Deamidated(Q)@3
		IKNLLR	900.61	1	
		MPSAEQSR	905.41	----	
		NIVVASNKVSSR	1274.71	----	Deamidated(N)@7
		QLLAELRQR	1169.69	----	
		SQPCSYPHIIR	1300.65	----	
79	Q8WV50	Mitotic checkpoint serine/threonine-protein kinase BUB1 beta			
		ALWKVVGK	945.60	1	
		DGELWNK	1005.51	1	
		TVQILEGQK	1015.58	----	
		IHDPYDCNK	1248.58	1	
80	P02686	Myelin basic protein			
		GVDAQGTLISK	1120.60	1	Deamidated(Q)@5
		GESEKK	965.55	2	
		IFKLGGR	934.59	1	
		LGGGRDSR	984.49	1	Phospho(S)@6
81	P60600	Myosin light polypeptide 6			
		VLGNPK	915.59	2	
		EAFQLFDR	1025.51	----	
		EGNGTVMGAEIR	1249.58	----	Oxidation(M)@7
		LRVFDK	921.56	1	
		SGDAGAAVLR	1060.58	1	
82	P35749	Myosin-11			
		VTAEAKIKK	1275.82	2	
		AARNKAEK	1175.71	2	
		AKANLDK	903.54	1	
		CIIPNHEKR	1219.70	1	Cys->Dha(C)@1
		DADFNGTK	1011.49	1	
		DADFNGTKASE	1298.60	1	
		EAEAREK	976.52	1	
		EKQAATK	1064.62	2	Deamidated(Q)@3
		EQEVTVLK	1090.61	1	Deamidated(Q)@2
		GNETSFVPSRR	1249.63	----	
		HKKK	972.67	3	
		ITDVIMAFQAMCR	1498.72	----	
		IVFQEFR	939.49	----	Deamidated(Q)@4
		KLEGDLK	1090.67	2	
		LEKLK	918.62	2	
		LKKEEK	918.57	1	
		MQLAKK	1006.63	2	
		NCAAYLK	927.47	1	Deamidated(N)@1
		NTPNFVR	949.47	----	Deamidated(N)@1
		NVHELEK	1012.55	1	
		QAATKSLK	1134.71	2	
		RGNETSFVPSR	1249.63	----	
		SLEADLMQLQEDLAAAER	2147.08	1	
83	Q9UKX3	Myosin-13			
		KLEGDLK	1090.67	2	
		KEKK	964.65	3	
		GGKKK	949.65	3	
		LQDLVDK	974.56	1	
		EEKLK	934.58	2	
		ACFVADNK	1011.50	1	
		GAEALKGAAHK	1125.65	1	
84	Q8WXH0	Nesprin-2			
		KKAAIK	1090.77	3	
		CKVTHDGILAR	1356.75	1	
		DAPGTGEEAQGK	1303.62	1	

		EIYNLK	1052.57	1	
		IWGEKEKK	1305.77	2	
		KDVEK	906.55	2	
		KEEIK	934.58	2	
		KEKK	964.65	3	
		KHLPK	910.61	2	
		KKNK	949.65	3	
		LPQLQGEIER	1182.65	----	
		NQYQMLVLK	1280.72	1	
		RSKSLK	1006.66	2	
85	Q8NF91	Nesprin-1			
		SMHRGSPK	1156.64	1	
		ADGSVEEAENVMK	1522.72	1	
		DEFNLK	910.46	1	Deamidated(N)@4
		EDLEQKVASLELR	1673.92	1	
		EEKLK	934.58	2	
		EMFATMSK	1088.52	1	
		EQKEK	949.56	2	
		EVTEQEK	1006.52	1	
		FNTENLGESK	1282.64	1	
		GYQEQIASLNSK	1481.77	1	
		IEKLNK	918.62	2	
		IIEKLR	915.61	1	
		KEKEK	949.59	2	
		KQELK	934.58	2	Deamidated(Q)@2
		LEEQKK	918.54	----	
		LGKVNDK	945.56	1	
		LSRVESLAPEVK	1471.86	1	
		LTENAIK	932.55	1	
		LVNINSTDIADGR	1387.72	----	
		NKMNYK	941.50	1	
		QMIKIR	932.58	1	
		QMLLKSNIK	1361.88	2	
		QVKTKK	960.61	2	Cys->Dha(C)@5
		SGLNQNLTK	1087.61	----	
		SGRGFLFR	939.52	----	
		SSVLSTGNQLLR	1274.71	----	
		TDMESTVDK	1025.45	----	
86	Q9ULB1	Neurexin1			
		SSNKNKK	1238.74	3	Deamidated(N)@3
		KKNK	949.65	3	
		LELDAGRVK	1144.68	1	
		SDLYIGGVAKETYK	1832.00	2	
		QGDPKMK	947.51	1	
		LAKQGDPK	1000.59	1	
87	Q8NFP9	Neurobeachin			
		VTYEAHK	991.53	1	
		KPEDFVR	1034.57	1	
		GKGFQHCVK	1147.61	1	
		AEKVEATEVK	1103.59	----	
		GFLVIGYLLEK	1251.73	----	
88	Q6KC79	Nipped-B-like protein			
		SSLKPIK	1060.70	2	
		DKVEK	906.55	2	
		ESMVKDK	980.52	1	
		GSIDQSVLK	1090.62	1	
		KEKQK	949.59	2	Deamidated(Q)@4
		KKEK	964.65	3	
		KMEMK	954.53	2	
		MNKRKR	976.60	1	
		RSLRNFR	949.53	----	Deamidated(N)@5
		RSLRNFR	949.53	----	Deamidated(R)@1
		RSLRNFR	949.53	----	Deamidated(R)@4
		SQRISQRIT	1089.60	----	Deamidated(Q)@2
		TSPNMPK	918.48	1	
89	P04198	N-myc proto-oncogene protein			
		EGSTPGIK	932.52	1	
		RKRAQTVAIR	1342.85	1	
		DHVPKLVKNEK	1307.69	----	

		AVTTFITVRPK	1477.88	1	
90	P23497	Nuclear autoantigen Sp-100			
		KAALKK	1090.77	3	
		CIQSEDKK	1238.67	2	
		EGQEATCSR	980.41	----	
		FEDMAK	900.43	1	Oxidation(M)@4
		HKKK	972.67	3	
		KKEK	964.65	3	
		KLSTFRESFK	1386.78	1	
		RRKRGPR	925.59	----	
		VNGLQRGR	900.50	----	Deamidated(N)@2
		KTFPFLEGLR	1351.78	1	
91	Q15788	Nuclear receptor coactivator 1			
		RQVTSGLATRPR	1342.75	----	Deamidated(Q)@2
		QLFQEVMTTR	1295.69	1	
		HTGLYCNQLSSTDLLK	1936.99	1	
		DETELAELDRALGIDK	1932.01	1	
92	O00482	Nuclear receptor subfamily 5 group A member 2			
		FLVLFSLDVK	1324.79	1	
		AISMQAEEYLYYK	1608.76	----	
		QVVHGK	811.49	1	
		LSTFGLMCK	1143.60	1	
		CEPDEPQVQAK	1243.56	----	
93	Q5VST9	Obscurin			
		EGSEATFR	1120.66	1	Phospho(S)@3
		QQMLVIK	1090.72	2	Gln->Ala@2
		DRDPK	918.61	2	
		ELLIHQLEAK	1481.86	2	
		GASPPGPQVR	1189.74	1	Phospho(S)@3
		GSETLRDGDR	1249.78	1	
		KVPK	903.62	3	
		LGSARASAELR	1274.78	1	
		LHVGITK	1055.67	2	
		QGWVSPAYLDR	1274.71	----	Gln->pyro-Glu@N-term
		TPSASPR	939.61	1	Phospho(T)@1
		VRIEAAGCMR	1249.74	1	
94	Q9C0B5	Palmitoyltransferase ZDHHC5			
		TTYSKSNGQPK	1354.70	1	
		DEVQLK	875.49	1	
		FGKPDGLRGR	1246.71	1	
		HIVASLQEREK	1309.72	----	
95	P54317	Pancreatic lipase-related protein 2			
		QYEIFK	954.51	1	Gln->pyro-Glu@N-term
		VKFLWNK	1078.65	1	
		VSVTLSGKEK	1191.70	1	
96	Q8ND90	Paraneoplastic antigen Ma1			
		RRLMESLR	1060.60	----	
		DNVNQAR	960.49	1	
		VVEKGAIK	1102.66	1	
		GPAADVIR	942.55	1	
97	O15018	PDZ domain-containing protein 2			
		NGMSVAGNR	905.43	----	
		LERTNQLK	1145.67	1	
		GGCLAQGNCQEK	1351.62	1	
		EGHPPHSLGR	1086.54	----	
		GSDSELK	879.45	1	
98	O95613	Pericentrin			
		LRAQLR	900.579	1	
		DNVSLTK	1064.70	2	
		ADRSEK	993.38	2	
		AESFRK	1025.58	2	
		ALLQMVR	974.619	1	
		ANSVQK	934.60	2	
		ATPSPNSR	989.63	1	Oxidation(P)@5
		CIAGDLQK	1135.71	2	
		DDLEK	907.56	2	
		DPARGRR	971.59	1	
		ECEQPIRR	1012.63	----	Glu->pyro-Glu@N-term
		EFSFK	1025.57	2	Phospho(S)@3;

		EGANLLSMLK	1363.93	2	
		EKLK	949.68	3	
		EKLNK	947.62	2	
		ENELK	920.55	2	
		GELQSVR	1012.63	1	Phospho(S)@5
		KLEK	949.68	3	
		LELSRAVSK	1370.76	2	Phospho(S)@8;
		LEQLK	918.60	2	
		LKEK	949.58	3	
		LLGLFGETLR	1342.89	1	Phospho(T)@8
		LRAQLR	900.58	1	
		LTLMLLELR	1325.92	1	Phospho(T)@2
		NEETAQVVR	1190.69	1	Deamidated(N)@1
		NLEIDALNQR	1330.84	1	Deamidated(N)@1
		QEHQLR	954.66	1	
		QKEK	964.67	3	
		QKLK	949.62	3	Deamidated(Q)@1
		QRKTK	1172.79	3	Phospho (T)@4
		RRRK	903.62	2	
		TAVEK	915.54	2	Phospho(T)@1
		VDLVAQVK	1160.69	2	Deamidated(Q)@6
99	Q5VV67	Peroxisome proliferator-activated receptor gamma coactivator-related protein 1			
		KAKSPK	1090.73	3	
		SAGQSSPAK	976.52	1	
		EDFDPAVK	1161.59	1	
		MTRSELK	978.56	1	
		YSSYRSHDHYQR	1598.71	----	
		EKPPLPATK		1	
100	O00541	Pescadillo homolog 1			
		EGDYVPPEK	1033.48	----	
		EALAFIIR	932.56	----	
		HKKK	972.67	3	
		KHKK	972.67	3	
		ELEAQEK	990.52	1	
		KELEAQEK	1118.61	1	
		KPRVMAGTLK	1244.76	1	
101	P15259	Phosphoglycerate mutase			
		GTEEAKR	934.50	1	
		AMEAVAAQ GK	1135.59	1	Oxidation(M)@2
		VLIAAHGNSLR	1294.77	1	
		RVLIAAHGNSLR	1306.77	----	
102	P16284	Platelet endothelial cell adesion molecular			
		VILAPWKK	1098.71	1	
		NSNDPAVK	1135.58	1	
		ANHASSVPRSK	1297.71	1	
		KDTETVYSEVR	1470.75	1	
		CESISGTLPISYQLLK	1751.92	----	
103	Q9HAU0	Pleckstrin homology domain-containing family A member 5			
		NKDK	792.48	2	
		QFYNK	843.44	1	
		LQQLHK	910.56	1	
		AWREYDK	1111.56	1	
		LQQLHKEK	1167.69	1	
		ELSRATAELER	1274.67	----	
104	Q15149	Plectin			
		INLAQK	830.52	1	
		DGKTTVK	892.52	1	
		LPVEVAYK	1062.63	1	
		LLEAAAQSTK	1031.57	1	
		QITMEELVR	1118.59	----	
		GLVDKIMVDR	1433.83	2	
105	Q9NS40	Potassium voltage-gated channel subfamily H member 7			
		KFEGQNK	1138.64	2	iTRAQ4plex(K)@1-7
		DRHASEDN GR	1156.51	----	
		LSFESEGEK	1025.48	----	
		ALAMKFK	952.57	1	

		IPQLTLNFSEVK	1532.88	1	
		INKFTILHYSPFK	1896.09	2	
106	Q7L014	Probable ATP-dependent RNA helicase DDX46			
		SWVQCGISMK	1282.64	1	
		AVVDSDKKK	1421.87	3	
		GSKSKK	1066.69	3	
		KAVVDSDKK	1421.87	3	
		KEKK	964.65	3	
		KKLQK	932.65	2	
		LNYVPLEK	1120.64	1	Deamidated(N)@2
		LWSDFK	939.51	1	
		RSRSRDR	932.51	----	
		SKKAENR	1120.67	2	
		SRSRDRR	932.51	----	
107	Q8NH12	Probable G-protein coupled receptor 144			
		RRDPRQGQ	1012.54	----	
		ALGVWGGAAK	1073.62	1	
		SALQRMEEK	1177.64	1	
		GGWLTATSLGHSK	1458.78	1	
		VVAVSMHPGPMR	1337.68	----	
108	P35232	Prohibitin			
		NVPVITGSK	914.53	----	
		AAIISAEGDSK	1205.65	1	
		KAAIISAEGDSK	1333.74	1	
		LEAAEDIAYQLSR	1478.75	----	
		VLPSITTEILK	1357.84	1	
109	P27918	Properdin			
		NVTFWGRPLPR	1342.74	----	
		SGGLCQPCR	920.41	----	
		SISCQEIPGRQSRGR	1673.85	----	
		KFDGHR	903.49	1	
		HCYSIQHCPLK	1472.72	1	
		RPCLHVPACK	1267.69	1	
110	Q13258	Prostaglandin D2 receptor			
		NLYAMHRRLQR	1458.77	----	Deamidated(N)@1
		NLYAMHRR	1060.54	----	
		MRNLYAMHRR	1348.67	----	Deamidated(N)@3
		RNLYAMHR	1060.54	----	
		AYYGAFKDVK	1305.69	1	
		IFFHKIFIRPLR	1731.07	1	
		AYYGAFK	963.51	1	
111	Q9P2B2	Prostaglandin F2 receptor negative regulator			
		AQDGFIFSK	1271.64	1	
		LENWTDASR	1091.51	----	
		QRNNSWVK	1175.64	1	
		MDVLNAFK	1081.58	1	
		NNSWVKS	1250.70	2	
112	P14921	Protein C-ets-1			
		DRADLNK	976.51	1	Deamidated(N)@6
		YYYDK	895.43	1	
		NIIHKTAGK	1125.68	1	
		LSDPDEVARR	1157.59	----	
113	P80511	Protein S100-A12			
		ELANTIK	932.55	1	
		QLLTKELANTIK	1515.92	1	
		AAHYHTHKE	1237.62	1	
114	A3KN83	Protein strawberry notch homolog 1			
		GVLQSLIEK	1130.69	1	
		AKNQRRR	928.55	----	
		EVPNPKK	1275.80	3	Deamidated(N)@3
		KEKK	964.65	3	
		KKNK	949.65	3	
		GEEITREAK	1176.63	1	
		GMSWEEATK	1182.56	1	
115	Q13882	Protein-tyrosine kinase 6			
		EEFTLCRK	1169.61	1	
		GSLELLR	900.55	----	
		MVSRDQAHLGPK	1498.79	1	Oxidation(M)@1
		VGDFGLARLIK	1332.81	1	

116	Q9Y315	Putative deoxyribose-phosphate aldolase			
		VCDAVKALK	1090.64	1	
		ACGEAHLK	972.51	1	
		IGASTLLSDIER	1274.70	----	
		DSLAWLSLVK	1275.74	1	
117	Q15311	Ra1A-binding protein 1			
		AAKEQPK	915.54	1	
		AAKEQPKAGK	1315.79	2	
		KEKK	964.65	3	
		DLSKEER	1020.54	1	
		KKEK	964.65	3	
		DGVLEPKAAK	1171.68	1	
118	Q08999	Retinoblastoma-like protein 2			
		RLREINSMIR	1287.73	----	
		CLNAGSGTETAER	1274.60		Cys->Dha(C)@1
		FAEMLYYK	1208.61	1	
		KRRNSGSSDSR	1249.64	----	
		LDISDELRL	960.50	----	
		LRDLCAK	962.55	1	
		QIKTFAMK	1110.64	1	
		RLREINSMIR	1287.73	----	
119	Q7Z5J4	Retinoid acid-induced protein 1			
		RVGKPSPK	1012.64	1	
		AAFKSGK	996.61	2	
		GNGEPAK	917.48	1	
		KKPK	932.66	3	
		LKEKVR	1060.71	2	
		LPNCRATK	1012.60	1	Cys->Dha(C)@4
		MSSPKK	965.57	2	
		PDGPADPAK	1011.52	1	
		QEEVGGVK	972.51	1	Gln->pyro-Glu@N-term
		RKRLTRGR	1042.67	----	
		RVGKPSPK	1012.64	1	
120	Q5T5U3	Rho GTPase-activating protein 21			
		GKSTGSLTPTR	1361.79	1	
		DSSSEVFSDAAK	1386.65	1	
		FAILKESPR	1204.72	1	
		KKPK	932.66	3	
		LDDCPAHTNR	1238.56	----	
		LKTLK	932.64	2	Acetyl@N-term
		LPEPLFTNDK	1317.72	1	
		TKIADRLK	1088.69	1	
		YADFIEANR	1098.52	----	
		VVDLLSNR	915.52	----	
121	Q9BST9	Rhotekin			
		GLTGGPKRLATK	1342.83	1	
		GLTGGPKRLATK	1342.83	1	
		GQLRTWLQSP	1185.64	----	
		GRVCISDLR	984.56	----	Cys->Dha(C)@4
		MREGACK	938.47	1	
122	Q14137	Ribosome biogenesis protein BOP1			
		GAGRTAAPSVR	1042.57	----	
		MHVPAPK	939.52	1	Oxidation(M)@1
		VLKGHVLR	1166.75	1	
		TVPVGGVVK	999.63	1	
123	Q9H7B2	Ribosome production factor 2 homolog			
		KPKK	932.66	3	
		GGNANATVTK	1076.58	1	
		TKRAKR	903.60	1	
		GSHNKK	958.57	2	
		IYFRSYK	1120.63	1	
124	Q8WV20	RNA binding motif, single stranded interacting protein 1			
		KRQNPKN	1172.71	2	
		FADGGQKK	994.54	1	
		CEAVIGHFNGK	1318.67	1	
		RQNPKN	900.51	1	
125	P21817	Ryanodine receptor 1			
		TFSEKDK	998.52	1	

		TALTEKSK	1021.59	1	
		DVIEEQGK	1061.56	1	
		EKAQELLK	1102.66	1	
		AEAQEGELLVR	1214.6375	----	
		AQWEMPQVK	1260.65	1	
		SGPEIVKAGLR	1270.76	1	1
126	O14641	Segment polarity protein dishevelled homolog DVL-2			
		TGGPSRLER	972.52	----	
		KYASGLLK	1023.63	1	
		AGLIRHTVNK	1252.76	1	
		YASGLLKAGLR	1405.86	1	
127	Q99719	Septin-5			
		MKDEELR	1064.55	1	
		DESGLNK	1062.56	1	
		RMQEMLQR	1091.54	----	
		ADCLVPSEIR	1102.56	----	
		NMLIRTHMHDLK	1652.88	1	
128	Q9UQ35	Serine/arginine repetitive matrix protein 2			
		GSGTNGYVQR	1038.50	----	
		KKEK	964.65	3	
		KPASPK	915.59	2	
		KPISLR	972.60	1	
		NKSRTSQR	1120.63	1	
		NLSLVRGR	915.54	----	Deamidated(N)@1
		RGRSPSPK	1028.61	1	
		SGAGSSPETK	1064.53	1	
		SGAGSSPETK	920.43	----	
		SHGRAKRDK	1198.69	1	
		SPCPQEK	932.46	1	
		SRREKTR	932.54	----	
		SRSPQRRGRSR	1342.75	----	
		SRTPLLPR	939.57	----	
		TAAALAPASLTSAR	1300.72	----	
		TPAAAAAMNLSAPR	1342.68	----	Deamidated(N)@9
		TPARRSGR	900.51	----	
		TVARTPLGQRSR	1342.76	----	Deamidated(Q)@9
129	P15056	Serine/Threonine protein kinase B-raf			
		GYLSPDLSK	1123.61	1	
		IGDFGLATVK	1164.67	1	
		GYLSPDLSKVR	1378.77	1	
		ALQKSPGPQR	1081.61	----	
		IGDFGLATVKSR	1407.81	1	
		IGSGSFGTVYKGGK	1588.89	2	
		FEMIKLIDIAR	1492.86	1	
130	Q06190	Serine/threonine-protein phosphatase 2A regulatory subunit B'' subunit alpha			
		DPFAVQK	948.52	1	
		ILSASLPEK	1101.66	1	
		APMFRAAGGEK	1278.67	1	
131	P42345	Serine/threonine-protein kinase mTOR			
		DASAVLSSESK	1237.64	1	
		NLMEEK	907.47	1	
		RALEWLGADR	1186.63	----	
		RHNAANK	954.54	1	
		SISLSRGNLQDTLR	1673.89	----	
		TILNLLPR	939.60	----	
		KKEK	964.65	3	
		KKKLR	960.69	2	
		RHAAVLVLR	1034.66	----	
		SEFKVYLPR	1282.73	1	
132	Q96Q15	Serine/threonine-protein kinase SMG1			
		RDQSTIPR	972.52	----	
		DPKTGK	933.56	2	
		HYSVTPLGTR	1130.59	----	
		ITREDDRDR	1175.58	----	
		KDEVK	906.55	2	
		KPKK	932.66	3	
		LEKIK	918.62	2	

		LEKLNK	918.62	2	
		RDQSTIPR	972.52	----	
133	Q15464	SH2 domain-containing adapter protein B			
		VDPVAVPLEK	1111.64	1	
		APGGGFKPIK	1156.67	1	
		SNQGFMMHK	1223.57	1	
		LCKECSYLVR	1357.71	1	
134	Q9H1V8	Sodium-dependent neutral amino acid transporter SLC6A17			
		ILGYLNTNVLSR	1363.76	----	Deamidated(N)@6
		NGSVAVVEAECEK	1478.72	1	
		FYFYMWK	1228.59	1	
		CVVENAEK	1035.52	1	
135	Q96BI1	Solute Carrier Family 22 member 18			
		TDAQAPLPGGPR	1179.61	----	
			1172.71	2	
		KPMPQRK	1028.61	1	
		KPMPQR	900.52	1	
		LPDVPRIFLVK	1440.90	1	
136	Q94956	Solute carrier organic anion transporter family member 2B1			
		EARTK	748.44	1	
		KPEDSR	875.47	1	
		QSPGESTK	977.50	1	
		VLAVIDSPAR	1028.57	----	
137	P11277	Spectrin beta chain, erythrocyte			
		AITAATLK	932.59	1	
		DGLAFNALIHK	1342.76	1	
		FDILDQEMK	1282.65	1	
		MKVLAVEGKR	1418.88	2	
138	Q9BPZ7	Stress-activated map kinase interacting protein 1			
		QSAQELK	947.52	1	
		SPSHAIFK	1030.58	1	
		ADYFAQKQR	1270.66	1	
139	Q15431	Synaptonemal complex protein 1			
		LKEAEK	861.51	1	
		EVKDLK	875.53	1	
		AELLSVK	903.56	1	
		LOENRK	931.54	1	
		AVPSQTVSR	944.51	----	
		VIADAVK	988.58	1	
140	Q9BQ70	Transcription factor 25			
		EGVRVNNR	944.49	----	Deamidated(N)@6
		HVILSEIK	1082.67	1	
		YSKPGLSMR	1038.54	----	
		SFYLALYK	1148.64	1	
		KHVLYVEHR	1324.76	1	
141	Q01664	Transcription factor AP-4			
		LLQQNTQLK	1229.73	1	
		RAVIVKPVR	1181.79	1	
		TLIPHTDGEK	1254.68	1	
		QELEEEQRR	1216.59	----	
142	Q8NHW3	Transcription factor mammalian MafA			
		GFSKEEVIR	1064.57	----	
		GGPGSAGGAGFPR	1087.53	----	
		DLYKEK	939.52	1	
		LEVGRLLAK	1029.65	1	
		EPSPPQAGPGGAK	1336.69	1	
143	Q8NEM7	Transcription factor SPT20 homolog			
		KYLSSGR	954.55	1	
		SSLNRQQDL	1060.54	----	
		GTPPTPKF	992.55	1	
		RNVNLEK	1129.68	1	
144	P29084	Transcription initiation factor IIE subunit beta			
		YNYRDKK	1275.69	2	Deamidated(N)@2
		KKKTK	1064.75	3	
		KVAPIQR	955.61	1	
		ILFFNDK	1040.59	1	

145	O75410	Transforming acidic coiled-coil-containing protein 1			
		LGSTLTPK	960.58	1	
		KNEEALK	975.56	1	
		ANEEIAQVR	1029.53	----	
		ICDELIAK	1048.58	1	
146	Q01995	Transgelin			
		KAQEHK	1028.61	2	
		LGFQVWLK	1134.68	1	
		QMEQVAQFLK	1348.71	1	Gln->pyro-Glu@N-term
		AAEDYGVIK	1253.70	2	
		GSKPVK	903.57	2	
		KYDEELEER	1354.66	1	
		KYDEELEER	1498.76	2	
		LGFQVWLK	1134.68	1	
		LGFQVWLK	1278.78	2	
		QMEQVAQFLK	1356.67	1	Dethiomethyl(M)@2, Cation:K(E)@3 Deamidated(Q)@4
147	Q9UJA5	tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit TRM6			
		ADTSLK	778.44	1	
		QEEQRK	961.52	1	
		AATACFGFPK	1156.59	1	
		RHLEAAALLSER	1365.76	----	
148	Q9NYL9	Tropomodulin-3			
		GKIFIPK	1090.72	2	
		NNDLVRK	1002.58	1	
		ALETNTHVK	1156.64		
		QKPVQTFTEEK	1622.89	2	
149	P06753	Tropomyosin alpha-3-chain			
		AEFAER	836.45	1	
		YEEEIK	954.49	1	
		HIAEEADRK	1212.64	1	
		YEEEIKILTDK	1668.92	2	
150	P07951	Tropomyosin beta chain			
		AMKDEEK	1138.60	2	
		EKCLK	934.58	2	
		IQLVEEELDR	1243.65	----	
		KYEEVAR	1038.57	1	
		AEFAERSVAK	1251.68	1	
		LLEECLK	1016.64	1	
		LVILEGELER	1170.67	----	
151	P49815	Tuberin			
		DSGLKEK	1064.62	2	
		ALFFKVIK	1253.82	2	
		ATASNAEK	935.49	1	
		VERDALK	974.57	1	
		SNPTDIYPSK	1265.65	1	
152	P07437	Tubulin beta chain			
		GRMSMK	853.45	1	
		ISEQFTAMFR	1229.59	----	
		TAVCDIPRGLK	1413.80	1	
		KLAVNMVPFPR	1415.83	1	
153	P78324	Tyrosine-protein phosphatase non-receptor type substrate 1			
		SGAGTELSVR	976.51	----	
		AENQVNVTCQVR	1361.64	----	Deamidated(N)@6
		LHEPEKNAR	1238.66	1	Deamidated(N)@7
		VPPTLEVTOQPV	1463.82	----	
		TETASTVTENK	1324.67	1	
		LHEPEK	896.49	1	
154	Q9NPG3	Ubiquitin-1			
		AAEGESRQK	1120.57	1	Deamidated(Q)@8
		DKEKK	1079.68	3	
		EEDEEK	922.41	1	
		GRRRIMGPRK	1287.75	1	Oxidation(M)@6
		KDDTYDK	1172.60	2	

		KEKK	964.65	3	
		KKKSPKK	1275.88	3	
		KYSGALSVK	1240.75	2	
		VFHAGTQQQK	1287.69	1	
		YGGKKRRK	1280.81	2	
155	Q14139	Ubiquitin conjugation factor E4 A			
		SSPQEIK	932.51	1	
		AAIQKEQLK	1172.71	1	
		EERKIK	1090.68	2	
		EYIQPK	921.52	1	
		IYQMLK	939.55	1	
		NPSRSSPQEIK	1386.75	1	
		SSPQEIK	949.49	1	Oxidation(P)@3, Deamidated(Q)@4
156	Q9Y6A4	Cilia- and flagella-associated protein 20			
		AYGTNYIETLR	1300.65	----	
		KVRNGHIK	1240.77	2	Deamidated(N)@4
		LYLPVQNK	1118.67	1	
		LYLPVQNKAK	1717.10	2	
		LPFLVMIKNLK	1573.01	1	
157	Q15849	Urea transporter 2			
		RASITK	932.60	1	
		AVGYLTGDMK	1198.62	1	
		ECGEGLKDK	1122.56	1	
		IYYLSQERNR	1341.69	----	
158	Q8N6Y0	Usher syndrome type-1C protein-binding protein 1			
		GSIECLK	918.57	1	
		ARRSQAELNR	1287.69	----	
		GSIECLK	918.57	----	
		IECLK	918.62	2	
		IMEAQMEQLR	1249.59	----	Deamidated(Q)@8
		MSARATPRR	1189.67	1	
		REKRGLELR	1300.79	1	
		RSQAELNR	1060.55	----	
159	P62955	Voltage-dependent calcium channel gamma 7 subunit			
		VCFFAGREK	1200.63	1	
		EGAGVMSVYLFTK	1545.81	1	
		EGAGVMSVYLFTKR	1701.91	1	
160	P21281	V-type proton ATPase subunit B, brain isoform			
		SGQVLEVSGSK	1090.57	----	
		TPVSEDMLGR	1120.53		Oxidation(M)@7
		SAIGEGMTRK	1193.64	1	
		VENGSGKPIDR	1303.73	1	
		QAGLVKK	887.58	1	
161	Q9UJW8	Zinc finger protein 180			
		SGLNSSLFSSPVIPIR	1673.92	----	
		KQQEK	949.56	2	Deamidated(Q)@3
		IPFESQYK	1284.66	1	
		HQATHTEEK	1224.61	1	
		IHGKGTDFDK	1350.72	1	
162	Q7Z3V5	Zinc finger protein 571			
		GSQLTEHQ	1056.51	----	Deamidated(Q)@3
		GSQLTEHQ	1055.52	----	
		CKECCGK	811.39	1	
		ECGKTFVR	1083.57	1	
		ECGKAFICGK	1199.60	1	
163	Q9H582	Zinc finger protein 644			
		RFVQK	821.51	1	
		DSVVGSSK	922.49	1	
		RTGTGTPVK	1060.62	1	
		YFHQAAKEK	1265.67	1	
		NQSLTLIELLK	1415.86	1	
164	Q15776	Zinc finger protein with KRAB and SCAN domains 8			
		SGLIEHQ	939.50	----	
		RSHTGEKP	1055.57	1	
		SFAQSSGLVR	1052.54		Deamidated(Q)@4
		SENRELASK	1147.63	1	

	HQRIHSGEK	1235.67	1	
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Table 3S: Ipa data set.

^A ANALYSIS SETTING		
Reference set: Ingenuity Knowledge Base (Genes Only) Relationship to include: Direct and Indirect Includes Endogenous Chemicals Optional Analyses: My Pathways My List Consider only molecules and/or relationships where (species = Human) AND (confidence = Experimentally Observed)		
^B Top Canonical Pathways:		
Name	p-value	Ratio
Epithelial Adherens Junction Signaling	3,09E-04	7/143 (0,049)
Role of Wnt/GSK-3 β Signaling in the Pathogenesis of influenza	5,02E-04	5/73 (0,068)
P13K/AKT Signaling	7,81E-04	6/121 (0,05)
Calcium Signaling	8,69E-04	7/170 (0,041)
Cellular Effects of Sildenafil (Viagra)	8,88E-04	6/124 (0,048)
^C Top Upstream Regulator:		
Name	p-value	
MYOCD	6,93 E-05	
LDL	2,8E-04	
miR-145-5p	1,72E-03	
HAND2	2,91E-03	
TBX5	2,91E-03	
^D Top Disease and BioFunction		
Name	p-value	Molecules
Cancer	2,81E-07 – 1,79E-02	134
Gastrointestinal Disease	2,81E-07 – 1,79E-02	84
Organismal Injury and Abnormalities	7,10E-06 - 1,79E-02	93
Reproductive system disease	7,93E-06 - 1,79E-02	79
Renal and Urological Disease	1,39E-05 – 1,37E-02	17
^E Molecular and Cellular Functions		
Name	p-value	molecules
Cellular movement	9,50E-06 – 8,98E-03	35
Cellular assembly and organization	1,25E-04 – 1,79E-02	24
Cellular development	1,33E-04 – 1,79E-02	32
Cellular growth and proliferation	1,33E-04 – 1,79E-02	28
Gene expression	1,48E-04 – 1,79E-02	31
^F Top Networks		
Associated Network Functions	Score	
Cell Death and Survival, Cancer, Gastrointestinal disease	78	

Cancer , Cellular growth and proliferation, Organism Injury and abnormalities,	30
Cardiovascular System development and function, cellular movement, cardiac infarction	30
Gene expression Cell Death and Survival, Cancer	18
Cell Morphology, Cellular Development, Digestive System development and function	2

6 Top Molecules

Fold Change up-regulated

Molecules	Exp Value
MAFA	9,408
HIPK3	9,073
BCAR3	7,210
MYH13	6,928
GPR144	6,807
DPYS	6,304
DMXL1	6,136
RBMS1	6,070
ARAP1	5,780
TACC1	5,550

Fold Change down-regulated

Molecules	Exp. value
KIN	-1,988
GOLGB1	-1,988
TET1	-1,493
TPM2	-1,484
KCNH7	-1,484
C16orf80	-1,077
INSIG1	-1,020
TAGLN	-1,002