Supplemental Table 1. Proteins identified in immunoprecipitated brain Kv4.2 channel complexes using in-gel 1D-LC-MS/MS experiments.

Protein	Molecular weight	Mascot protein score	Scaffold protein probability	Unique peptides	Total peptides	% AA sequence coverage	Peptide sequence	Mascot ion score	*m/z* (observed)	Charge	Mass (observed)	Mass (theoretical)	Mass error (ppm)	Modifications
Kv4.2	71	275	100%	7	7	14	IPNANVSGSHR	97	576.300	2	1150.585	1150.584	0.9	
							GSVQELSTIQIR	82	665.876	2	1329.738	1329.725	9.6	
							YPDTLLGSSER	66	619.310	2	1236.606	1236.599	5.6	
							NGLLSNQLQSSEDEPAFISK	60	1089.041	2	2176.067	2176.065	1.1	
							LQDDADTDNTGESALPTMTAR	51	1119.500	2	2236.985	2236.975	4.4	Oxidation (M)
							ILGYTLK	35	404.250	2	806.485	806.490	5.8	
							DPDIFR	32	381.690	2	761.365	761.371	7	
Kv4.1	73	184	100%	4	4	6	LANSTASVSR	85	503.270	2	1004.525	1004.525	0.3	
							NDDVSGAFVTLR	69	647.330	2	1292.645	1292.636	7.2	
							GDEVLVVNVSGR	59	622.340	2	1242.665	1242.657	6.9	
							LFAAPSR	46	381.220	2	760.425	760.423	3	
Kv4.3	74	121	100%	4	4	12	NGLLNEALELTGTPEEEQMGK	44	1145.050	2	2288.085	2288.084	0.5	Oxidation (M)
							TTHLPNSNLPATR	40	474.590	3	1420.748	1420.742	4.1	
							SMQELSTLHIQGSEQPSLTTSR	37	816.070	3	2445.188	2445.181	3.1	Oxidation (M)
							LMDDNDSENNQESMPSLSFR	37	1180.995	2	2359.975	2359.953	9.4	2 Oxidation (M)
KChIP1	27	181	100%	3	3	14	FEDFVTALSILLR	118	762.430	2	1522.845	1522.840	3.8	
							SLQLFQNVM	73	548.280	2	1094.545	1094.543	2.2	Oxidation (M)
							AIYDMMGK	34	480.710	2	959.405	959.409	3.9	2 Oxidation (M)
KChIP2	29	170	100%	5	6	18	DLDGSYDQLTGHPPGPSKK	63	671.330	3	2010.968	2010.965	1.7	
							KESLSESR	59	468.240	2	934.465	934.472	6.9	
							DLDGSYDQLTGHPPGPSK	54	628.630	3	1882.868	1882.870	0.8	
							SMQLFDNVI	46	541.760	2	1081.505	1081.511	5.5	Oxidation (M)
							EHVESFFQK	35	575.780	2	1149.545	1149.545	0	
							EHVESFFQK	33	384.190	3	1149.548	1149.545	2.3	
KChIP3	30	167	100%	5	5	19	ASDGNLLGDPGR	88	586.290	2	1170.565	1170.563	2.1	
							HQPEGLDQLQAQTK	67	531.610	3	1591.808	1591.795	8	
							FFQKMDR	38	494.240	2	986.465	986.464	1	Oxidation (M)
							HTYPILR	36	450.260	2	898.505	898.502	3.3	
							SIYDMMGR	34	502.710	2	1003.405	1003.410	4.8	2 Oxidation (M)
KChIP4	29	388	100%	9	11	38	HRPEALELLEAQSK	99	810.940	2	1619.865	1619.863	1.4	
							TSSPAIQNSVEDELEMATVR	91	1097.020	2	2192.025	2192.027	0.5	Oxidation (M)
							HRPEALELLEAQSK	81	540.960	3	1619.858	1619.863	3	
							KELQILYR	59	531.820	2	1061.625	1061.623	2	
							TSSPAIQNSVEDELEMATVR	48	731.680	3	2192.018	2192.027	3.8	Oxidation (M)
							DGYITKEEMLDIMK	48	573.270	3	1716.788	1716.795	3.9	2 Oxidation (M)
							QHVETFFQK	45	573.780	2	1145.545	1145.551	4.4	Gln->pyro-Glu (N-term Q)
							GLSILLR	43	386.260	2	770.505	770.501	5.2	
							SMQLFENVI	42	548.770	2	1095.525	1095.527	1.4	Oxidation (M)
							AIYDMMGK	39	480.710	2	959.405	959.409	3.9	2 Oxidation (M)
							DENIMR	36	397.180	2	792.345	792.344	2.3	Oxidation (M)
DPP6	92	861	100%	23	28	23	VTVEDLFSEDFK	103	714.850	2	1427.686	1427.682	2.9	
							HLYSANTVDDFNR	98	776.370	2	1550.725	1550.711	9	
							MFDLEANEEVQK	80	734.840	2	1467.665	1467.655	7	Oxidation (M)
							IYFLSTEDLPR	71	677.360	2	1352.705	1352.698	5.8	
							KVTVEDLFSEDFK	69	778.900	2	1555.785	1555.777	5.4	
							LGFLEEKDQMEAVR	68	840.920	2	1679.825	1679.819	3.9	Oxidation (M)
							MQGNVMELVGSNPPQR	65	894.927	2	1787.840	1787.829	5.9	2 Oxidation (M)
							LYASAFSER	63	522.260	2	1042.505	1042.508	2.7	
							VAVTWLNR	60	479.780	2	957.545	957.540	6.1	
							IPHGDPQSLDPPEVSNAK	59	634.320	3	1899.938	1899.933	2.9	
							ILSYDEKR	59	512.280	2	1022.545	1022.540	5.6	
							RLGFLEEKDQMEAVR	57	612.980	3	1835.918	1835.920	0.9	Oxidation (M)
							LPTATAKEEEEED	55	731.340	2	1460.665	1460.652	9.3	
							IHFQHTAELITQLIK	55	598.010	3	1791.008	1791.004	2.1	
							QNEEPVFSK	50	530.750	2	1059.485	1059.487	1.7	Gln->pyro-Glu (N-term Q)
							EYYITMVK	47	531.760	2	1061.505	1061.510	4.5	Oxidation (M)
							MQGNVMELVGSNPPQR	46	596.950	3	1787.828	1787.829	0.7	2 Oxidation (M)
							LLQEVR	46	379.230	2	756.445	756.449	5.1	

							IPHGDPQSLDPPEVSNAK	46	950.980	2	1899.945	1899.933	6.7	
							HLYSANTVDDFNR	45	517.910	3	1550.708	1550.711	2	
							VQDKLPTATAK	44	586.340	2	1170.665	1170.661	3.9	
							LGFLEEKDQMEAVR	44	560.950	3	1679.828	1679.819	5.5	Oxidation (M)
							YEISPDK	41	426.210	2	850.405	850.407	2	
							LGFLEEK	41	418.230	2	834.445	834.449	3.8	
							YLGLHGLDNR	40	579.310	2	1156.605	1156.599	5.4	
							VQDKLPTATAK	36	391.230	3	1170.668	1170.661	6.2	
							LPTATAK	34	351.210	2	700.405	700.412	9.2	
							EQYIDKTR	31	526.770	2	1051.525	1051.530	4.1	
DPP10	91	526	100%	15	16	21	VPVVSLHITDNPSR	83	767.430	2	1532.845	1532.831	9.3	
							YFLLENNSVMK	80	687.340	2	1372.665	1372.670	3	Oxidation (M)
							QLYSASTEGLLNR	74	726.380	2	1450.745	1450.742	2.6	
							IYFLSTESSPQGR	60	742.873	2	1483.731	1483.731	0.1	
							GFGLHNPEPR	58	562.290	2	1122.565	1122.557	7.4	
							VPVVSLHITDNPSR	55	511.950	3	1532.828	1532.831	1.9	
							SEQITVR	55	416.730	2	831.445	831.445	0.5	
							ILAYDETTQK	54	591.310	2	1180.605	1180.598	6.6	
							ATQSQPADQELGSNSPPQR	51	670.990	3	2009.948	2009.940	3.9	
							GEFHHIAMFLVQSK	49	553.950	3	1658.828	1658.824	2.5	Oxidation (M)
							QNEEPVFSR	48	553.270	2	1104.525	1104.520	4.9	
							VHFQHSAELIK	42	436.910	3	1307.708	1307.699	7.3	
							VLQEIHR	40	447.760	2	893.505	893.508	3.1	
							QEQQPTPGAR	40	556.280	2	1110.545	1110.542	3.3	
							EEVSVLPQEPEEDE	39	814.860	2	1627.705	1627.710	2.8	
							QPYIDSK	38	425.720	2	849.425	849.423	2.6	

Supplemental Table 2. Proteins identified in immunoprecipitated brain Kv4.2 channel complexes using in-solution 1D-LC-MS/MS experiments.

Protein	Molecular weight	Mascot protein score	Scaffold protein probability	Unique peptides	Total peptides	% AA sequence coverage	Peptide sequence	Mascot ion score	*m/z* (observed)	Charge	Mass (observed)	Mass (theoretical)	Mass error (ppm)	Modifications
Kv4.2	71	730	100%	12	16	22	ENAERLQDDADTDNTGESALPTMTAR	96	941.087	3	2820.239	2820.247	2.7	
							AAAIGWMPVASGPMPAPPRQER	92	764.056	3	2289.146	2289.151	2	
							LQDDADTDNTGESALPTMTAR	84	1111.494	2	2220.973	2220.980	3.2	
							TQDALIVLNVSGTR	81	743.913	2	1485.812	1485.815	2.1	
							AAAIGWMPVASGPMPAPPRQER	78	769.388	3	2305.141	2305.146	2.1	Oxidation (M)
							RNGLLSNQLQSSEDEPAFISK	76	778.394	3	2332.161	2332.166	1.8	
							SGSANAYMQSK	73	572.257	2	1142.499	1142.503	2.8	
							SSLNAKMEECVK	70	706.329	2	1410.644	1410.648	2.9	Oxidation (M)
							SGSANAYMQSKR	63	650.307	2	1298.600	1298.604	2.6	
							IPNANVSGSHR	62	384.535	3	1150.583	1150.584	1.5	
							SGSANAYMQSKR	59	433.874	3	1298.601	1298.604	1.9	
							TFRIPNANVSGSHR	57	519.274	3	1554.800	1554.802	1.1	
							AAAIGWMPVASGPMPAPPRQER	54	774.719	3	2321.136	2321.141	2.2	2 Oxidation (M)
							SGSANAYMQSK	47	580.255	2	1158.495	1158.498	2.5	Oxidation (M)
							CVERTPLSNSR	39	440.222	3	1317.644	1317.646	1.6	
							IYHQNQRADK	37	636.824	2	1271.634	1271.637	2.2	
Kv4.1	73	284	100%	8	9	16	LANSTASVSR	72	503.269	2	1004.523	1004.525	2	
							NTLDRYPDTLLGSSEK	69	603.638	3	1807.891	1807.895	2.1	
							AAAVGWLPLAQQPLPPAPEVK	61	718.408	3	2152.201	2152.204	1.7	
							AAAVGWLPLAQQPLPPAPEVK	54	1077.106	2	2152.197	2152.204	3.2	
							NSSLGTPCLLPETVK	49	808.420	2	1614.826	1614.829	1.8	
							ASRGDEVLVVNVSGR	48	519.949	3	1556.825	1556.827	1.6	
							SGTTNAFLQYK	43	615.310	2	1228.606	1228.609	2.1	
							RSPAPQTR	40	456.753	2	911.492	911.494	2.3	
							IYHQNQRADK	37	636.824	2	1271.634	1271.637	2.2	
Kv4.3	74	844	100%	14	22	29	RNGLLNEALELTGTPEEEQMGK	119	810.403	3	2428.186	2428.190	1.8	
							SMQELSTLHIQGSEQPSLTTSR	106	810.734	3	2429.181	2429.186	1.8	
							TTGLSYLVDDPLLSVR	102	874.973	2	1747.932	1747.936	2	
							TTGLSYLVDDPLLSVR	102	583.652	3	1747.933	1747.936	1.3	
							SMQELSTLHIQGSEQPSLTTSR	89	816.066	3	2445.176	2445.181	1.6	Oxidation (M)
							KTTHLPNSNLPATR	74	517.285	3	1548.834	1548.837	1.9	
							RQDELIVLNVSGRR	65	552.315	3	1653.924	1653.927	1.9	
							TGSSNAYLHSKR	63	440.892	3	1319.656	1319.658	1.9	
							TGSSNAYLHSK	59	388.859	3	1163.555	1163.557	1.6	
							SKKTTHLPNSNLPATR	57	588.994	3	1763.960	1763.964	2.2	
							EFFFNEDTK	55	588.763	2	1175.511	1175.514	1.7	
							TTLERYPDTLLGSTEK	54	608.650	3	1822.927	1822.931	2.1	
							TGSSNAYLHSK	53	582.785	2	1163.555	1163.557	2.1	
							TTHLPNSNLPATR	50	711.377	2	1420.739	1420.742	2.2	
							TTLERYPDTLLGSTEK	46	912.471	2	1822.927	1822.931	2.2	
							ADDGLRPNCK	42	382.517	3	1144.528	1144.529	1.5	
							AAAIGWMPVANCPMPLAPADK	42	727.692	3	2180.053	2180.058	2.1	
							TTHLPNSNLPATR	41	474.587	3	1420.740	1420.742	1.8	
							AAAIGWMPVANCPMPLAPADK	41	1091.034	2	2180.053	2180.058	2.3	
							IYHQNQRADK	37	636.824	2	1271.634	1271.637	2.2	
							ADDGLRPNCK	36	573.271	2	1144.527	1144.529	2.2	
							SKKTTHLPNSNLPATR	33	441.998	4	1763.961	1763.964	1.5	
KChIP1	27	178	100%	4	4	18	NECPSGVVNEETFK	106	805.360	2	1608.705	1608.709	2.2	
							SLQLFQNVM	59	540.280	2	1078.546	1078.548	1.5	
							AIYDMMGK	36	480.711	2	959.407	959.409	1.9	2 Oxidation (M)
							ELQVLYR	31	460.763	2	919.511	919.513	1.4	
KChIP2	29	307	100%	6	8	20	NECPSGIVNEENFK	110	818.865	2	1635.716	1635.720	2.2	
							ESLSESRDLDGSYDQLTGHPPGPSK	78	891.418	3	2671.231	2671.236	2	
							GFKNECPSGIVNEENFK	68	656.974	3	1967.901	1967.905	2	
							SMQLFDNVI	53	541.762	2	1081.510	1081.511	1.3	Oxidation (M)
							SMQLFDNVI	47	533.765	2	1065.515	1065.516	1.5	
							ESLSESRDLDGSYDQLTGHPPGPSKK	35	700.839	4	2799.325	2799.331	2	
							ESLSESRDLDGSYDQLTGHPPGPSK	32	668.815	4	2671.230	2671.236	2.4	
							ELQVLYR	31	460.763	2	919.511	919.513	1.4	
KChIP3	30	260	100%	5	7	29	HQPEGLDQLQAQTK	80	531.605	3	1591.792	1591.795	1.9	

							HQPEGLDQLQAQTK	80	796.903	2	1591.792	1591.795	2.3	
							DENIMNSMQLFENVI	69	898.912	2	1795.809	1795.812	1.6	
							ASDGNLLGDPGRIPLSKR	64	622.677	3	1865.008	1865.012	1.9	
							HTYPILREDAPLEHVER	46	519.521	4	2074.056	2074.060	1.6	
							ASDGNLLGDPGRIPLSKR	35	467.259	4	1865.009	1865.012	1.6	
							ESIKWQRPR	31	400.559	3	1198.655	1198.657	1.6	
KChIP4	29	744	100%	10	18	43	NECPSGVVNEETFK	106	805.360	2	1608.705	1608.709	2.2	
							TSSPAIQNSVEDELEMATVR	97	1097.017	2	2192.019	2192.027	3.3	Oxidation (M)
							HRPEALELLEAQSK	92	810.937	2	1619.860	1619.863	2	
							HRPEALELLEAQSK	83	540.961	3	1619.861	1619.863	1.3	
							HRPEALELLEAQSK	79	540.961	3	1619.861	1619.863	1.4	
							DGVVTIDEFIESCQKDENIMR	77	833.388	3	2497.141	2497.146	2.1	
							DGVVTIDEFIESCQKDENIMR	76	838.723	3	2513.146	2513.141	1.7	Oxidation (M)
							TSSPAIQNSVEDELEMATVR	75	1089.015	2	2176.015	2176.032	7.4	
							TSSPAIQNSVEDELEMATVR	61	731.681	3	2192.022	2192.027	2.3	Oxidation (M)
							DGVVTIDEFIESCQKDENIMR	61	833.390	3	2497.148	2497.146	0.5	
							CTYPVLKEDAPR	53	483.577	3	1447.711	1447.713	1.6	
							QHVETFFQK	49	573.782	2	1145.549	1145.551	1.6	Gln->pyro-Glu (N-term Q)
							SMQLFENVI	43	548.770	2	1095.525	1095.527	1.7	Oxidation (M)
							QHVETFFQK	41	388.532	3	1162.575	1162.577	1.5	
							DENIMR	41	777.354	1	776.347	776.349	2.2	
							AIYDMMGK	36	480.711	2	959.407	959.409	1.9	2 Oxidation (M)
							QHVETFFQKMDK	35	513.253	3	1536.737	1536.740	1.5	
							DENIMR	34	389.181	2	776.347	776.349	1.7	
DPP6	92	825	100%	25	29	28	MFDLEANEEVQK	98	726.836	2	1451.658	1451.660	1.7	
							VSALEDQQFLIIHATADEK	91	710.034	3	2127.080	2127.085	2.1	
							KHEDESEAWLHRQNEEPVFSK	81	649.560	4	2594.209	2594.215	2.1	
							IYFLSTEDLPR	71	677.354	2	1352.694	1352.698	2.5	
							LYASAFSER	69	522.261	2	1042.507	1042.508	1.4	
							IHFQHTAELITQLIK	65	598.008	3	1791.002	1791.004	1.4	
							VAVTWLNR	60	479.776	2	957.538	957.540	1.5	
							IPHGDPQSLDPPEVSNAK	59	634.317	3	1899.929	1899.933	2.1	
							VQDKLPTATAKEEEEED	58	644.639	3	1930.897	1930.901	2.1	
							LPTATAKEEEEED	56	731.331	2	1460.648	1460.652	2.5	
							RRMFDLEANEEVQK	51	594.291	3	1779.852	1779.857	3	Oxidation (M)
							RRMFDLEANEEVQK	51	588.960	3	1763.859	1763.862	1.9	
							RLGFLEEKDQMEAVR	51	607.648	3	1819.922	1819.925	1.7	
							DQMEAVR	51	424.699	2	847.384	847.386	1.8	
							YLGLHGLDNRAYEMTK	45	627.648	3	1879.921	1879.925	2	
							AIRYEISPDK	45	596.321	2	1190.627	1190.630	2	
							LLQEVR	44	379.231	2	756.448	756.449	1.6	
							KGSVILR	42	386.755	2	771.495	771.497	1.7	
							CDGRGSGFQGTK	41	635.284	2	1268.553	1268.557	2.7	
							GSGFQGTK	40	391.195	2	780.375	780.377	1.5	
							YLGLHGLDNR	38	579.305	2	1156.596	1156.599	2.4	
							AYEMTK	38	371.675	2	741.336	741.337	1.1	
							AIRYEISPDK	38	397.883	3	1190.628	1190.630	1.6	
							IHDPEAK	37	405.210	2	808.406	808.408	2	
							ILSYDEK	35	867.443	1	866.436	866.439	2.8	
							CDGRGSGFQGTK	35	423.859	3	1268.555	1268.557	1.7	
							EFIYRER	32	506.763	2	1011.512	1011.514	1.8	
							DQMEAVR	32	432.697	2	863.379	863.381	1.8	Oxidation (M)
							AINDRQMPK	31	544.778	2	1087.542	1087.544	2.2	Oxidation (M)
DPP10	91	652	100%	19	20	24	KYEMTSDTWLSK	92	744.854	2	1487.694	1487.697	2	
							YFLLENNSVMK	78	679.344	2	1356.673	1356.675	1.6	
							ILHIDDYELPLQLSFPK	75	681.037	3	2040.089	2040.093	1.9	
							GYGGYIASMILK	74	636.835	2	1271.656	1271.658	1.5	
							MKQEQQPTPGAR	71	693.842	2	1385.669	1385.672	2.6	Oxidation (M)
							LYASAFSER	69	522.261	2	1042.507	1042.508	1.4	
							IGSVEAKDQVAAVK	65	707.897	2	1413.780	1413.783	2.2	
							VPVVSLHITDNPSR	57	511.950	3	1532.829	1532.831	1.6	
							YVLLAYDVK	53	542.307	2	1082.599	1082.601	1.8	
							CGAVVAPISDMK	50	624.309	2	1246.603	1246.605	1.9	
							QEQQPTPGAR	49	556.277	2	1110.539	1110.542	2.2	
							VHFQHSAELIK	47	436.906	3	1307.697	1307.699	1.6	

FTGALYPK	47	448.747	2	895.479	895.480	0.9
FFMTVPVK	45	484.767	2	967.519	967.520	1.4
SEQITVR	44	416.729	2	831.444	831.445	1.7
HSLSPDLK	42	448.745	2	895.475	895.476	1.7
QNEEPVFSRDGSK	41	746.853	2	1491.692	1491.695	2.4
QNEEPVFSR	40	553.266	2	1104.518	1104.520	2
QPYIDSK	37	425.718	2	849.422	849.423	2
RLSIFGK	35	410.755	2	819.495	819.497	1.4

Supplemental Table 3. Proteins identified in immunoprecipitated brain Kv4.2 channel complexes using MudPIT experiments.

Protein	Molecular weight	Mascot protein score	Scaffold protein probability	Unique peptides	Total peptides	% AA sequence coverage	Peptide sequence	Mascot ion score	*m/z* (observed)	Charge	Mass (observed)	Mass (theoretical)	Mass error (ppm)	Modifications
Kv4.2	71	1271	100%	8	17	14	LQDDADTDNTGESALPTMTAR	126	1111.50	2	2220.98	2220.98	1.3	
							NGLLSNQLQSSEDEPAFISK	120	1088.99	2	2175.97	2176.06	43.7	
							LQDDADTDNTGESALPTMTAR	118	1111.91	2	2221.81	2220.98	77.9	
							NGLLSNQLQSSEDEPAFISK	107	1089.34	2	2176.67	2176.06	181.6	
							IPNANVSGSHR	90	576.78	2	1151.55	1150.58	29	
							RNGLLSNQLQSSEDEPAFISK	89	1167.18	2	2332.35	2332.17	77.8	
							NGLLSNQLQSSEDEPAFISK	88	1089.42	2	2176.82	2176.06	110.8	
							RNGLLSNQLQSSEDEPAFISK	78	1167.47	2	2332.93	2332.17	101.3	
							TQDALIVLNVSGTR	74	744.08	2	1486.14	1485.82	219.9	
							TQDALIVLNVSGTR	72	744.33	2	1486.64	1485.82	119.3	
							GSVQELSTIQIR	68	665.93	2	1329.85	1329.73	94.4	
							TFRIPNANVSGSHR	56	778.82	2	1555.62	1554.80	116.1	
							TQDALIVLNVSGTR	42	744.24	2	1486.46	1485.82	238.4	
							RNGLLSNQLQSSEDEPAFISK	40	778.71	3	2333.10	2332.17	27.9	
							IYHQNQR	36	479.73	2	957.45	957.48	30.7	
							IYHQNQR	35	479.76	2	957.51	957.48	31.9	
							IYHQNQR	32	479.83	2	957.64	957.48	170.8	
Kv4.1	73	260	100%	3	4	8	LAEDEEAEQAGEGPALPAGSSLR	80	1149.29	2	2296.57	2296.08	214.1	
							LAEDEEAEQAGEGPALPAGSSLR	79	1149.48	2	2296.94	2296.08	63.7	
							SGTTNAFLQYK	56	615.74	2	1229.46	1228.61	123	
							NSSLGTPCLLPETVK	45	808.74	2	1615.47	1614.83	219.8	
Kv4.3	74	1130	100%	8	19	15	QDELIVLNVSGR	90	672.00	2	1341.99	1341.73	200.8	
							QDELIVLNVSGR	90	672.28	2	1342.54	1341.73	141.2	
							QDELIVLNVSGR	77	672.27	2	1342.52	1341.73	154.5	
							TTGLSYLVDDPLLSVR	76	875.36	2	1748.71	1747.94	130.8	
							TTGLSYLVDDPLLSVR	75	875.30	2	1748.59	1747.94	198.5	
							TTGLSYLVDDPLLSVR	72	875.30	2	1748.58	1747.94	201.9	
							KTTHLPNSNLPATR	66	775.77	2	1549.52	1548.84	206.8	
							QDELIVLNVSGR	66	672.36	2	1342.70	1341.73	16.8	
							TTHLPNSNLPATR	61	711.46	2	1420.91	1420.74	120.7	
							TGSSNAYLHSK	58	583.17	2	1164.33	1163.56	196.1	
							TTGLSYLVDDPLLSVR	56	875.45	2	1748.89	1747.94	25	
							KTTHLPNSNLPATR	51	775.86	2	1549.71	1548.84	80.9	
							TTHLPNSNLPATR	51	711.76	2	1421.51	1420.74	162.1	
							NGLLNEALELTGTPEEEQMGK	50	1137.44	2	2272.87	2272.09	95.8	
							TTGLSYLVDDPLLSVR	50	875.35	2	1748.69	1747.94	139.5	
							TGSSNAYLHSK	43	583.12	2	1164.23	1163.56	277.9	
							IYHQNQR	35	479.76	2	957.51	957.48	31.9	
							IYHQNQR	32	479.83	2	957.64	957.48	170.8	
							TTLERYPDTLLGSTEK	31	912.89	2	1823.76	1822.93	94.5	
KChIP2	31	109	100%	2	2	10	DLDGSYDQLTGHPPGPSK	80	942.87	2	1883.72	1882.87	79	
							EHVESFFQK	29	576.17	2	1150.32	1149.55	199.7	
KChIP3	33	564	100%	4	10	13	HQPEGLDQLQAQTK	79	796.99	2	1591.96	1591.80	101.4	
							HQPEGLDQLQAQTK	74	797.23	2	1592.45	1591.80	215.8	
							HQPEGLDQLQAQTK	68	797.21	2	1592.40	1591.80	245.3	
							HQPEGLDQLQAQTK	59	797.27	2	1592.52	1591.80	172.6	
							HQPEGLDQLQAQTK	57	797.32	2	1592.63	1591.80	106.5	
							HQPEGLDQLQAQTK	52	797.14	2	1592.27	1591.80	298.5	
							EDAPLEHVER	52	597.84	2	1193.66	1193.57	76.4	
							EDAPLEHVER	51	598.15	2	1194.29	1193.57	228.5	
							KELQSLYR	40	518.95	2	1035.89	1035.57	310.5	
							ELQSLYR	32	908.63	1	907.62	907.48	162.4	
KChIP4	29	664	100%	8	12	38	TSSPAIQNSVEDELEMATVR	102	1089.03	2	2176.05	2176.03	9	
							RVESISAQLEEASSTGGFLYAQNNTK	79	1401.11	2	2800.20	2799.37	58.5	
							RVESISAQLEEASSTGGFLYAQNNTKR	74	986.45	3	2956.34	2955.47	44.2	
							HRPEALELLEAQSK	70	811.39	2	1620.76	1619.86	61.8	
							RVESISAQLEEASSTGGFLYAQNNTKR	66	986.47	3	2956.38	2955.47	29.7	
							FTKKELQILYR	50	720.39	2	1438.76	1437.83	52.5	
							DGVVTIDEFIESCQK	43	870.65	2	1739.28	1738.81	271.6	
							QHVETFFQK	43	582.65	2	1163.28	1162.58	258.2	
							KELQILYR	40	532.21	2	1062.41	1061.62	197.2	
							KELQILYR	35	531.96	2	1061.90	1061.62	258.6	
							QHVETFFQK	32	582.72	2	1163.42	1162.58	132.6	
							QHVETFFQK	30	1163.65	1	1162.64	1162.58	56.4	

DPP6	92	8064	100%	33	140	32	VSALEDQQFLIIHATADEK	124	1064.90	2	2127.78	2127.08	141.6
							EGVIYNGLSDWLYEEEILK	111	1135.37	2	2268.72	2269.12	176.2
							VSALEDQQFLIIHATADEK	111	1064.46	2	2126.90	2127.08	85.2
							VSALEDQQFLIIHATADEK	106	1064.56	2	2127.10	2127.08	6.8
							VTVEDLFSEDFK	104	715.31	2	1428.60	1427.68	60.3
							KKVTVEDLFSEDFK	102	843.32	2	1684.62	1683.87	150.9
							VTVEDLFSEDFK	99	715.27	2	1428.52	1427.68	111.5
							VTVEDLFSEDFK	99	715.13	2	1428.24	1427.68	306.9
							VTVEDLFSEDFK	99	715.32	2	1428.63	1427.68	37.9
							VTVEDLFSEDFK	98	715.32	2	1428.62	1427.68	45.6
							KKVTVEDLFSEDFK	96	843.34	2	1684.67	1683.87	122.5
							KVTVEDLFSEDFK	92	779.38	2	1556.75	1555.78	14.8
							VSALEDQQFLIIHATADEK	90	1064.81	2	2127.60	2127.08	230
							KKVTVEDLFSEDFK	89	842.76	2	1683.50	1683.87	223.3
							VTVEDLFSEDFK	84	715.25	2	1428.48	1427.68	142.4
							HLYSANTVDDFNR	83	776.40	2	1550.78	1550.71	44.6
							IYFLSTEDLPR	83	677.85	2	1353.69	1352.70	6.4
							IYFLSTEDLPR	81	677.42	2	1352.83	1352.70	97.7
							NKIYFLSTEDLPR	80	798.33	2	1594.65	1594.84	117
							HLYSANTVDDFNR	79	776.77	2	1551.53	1550.71	118.9
							KVTVEDLFSEDFK	79	779.00	2	1555.98	1555.78	128.4
							KVTVEDLFSEDFK	79	779.27	2	1556.53	1555.78	157.6
							NKIYFLSTEDLPR	79	798.43	2	1594.85	1594.84	9
							VSALEDQQFLIIHATADEK	79	710.33	3	2127.97	2127.08	54.5
							EGVIYNGLSDWLYEEEILK	78	1135.53	2	2269.05	2269.12	29
							IYFLSTEDLPR	78	677.49	2	1352.96	1352.70	192.9
							NKIYFLSTEDLPR	77	798.86	2	1595.70	1594.84	85.6
							HLYSANTVDDFNR	74	776.43	2	1550.84	1550.71	81.4
							HLYSANTVDDFNR	74	776.78	2	1551.54	1550.71	113.3
							IYFLSTEDLPR	74	677.71	2	1353.40	1352.70	220.1
							IYFLSTEDLPR	74	677.75	2	1353.49	1352.70	155.8
							KKVTVEDLFSEDFK	74	843.01	2	1684.00	1683.87	74.7
							EGVIYNGLSDWLYEEEILK	73	1135.96	2	2269.91	2269.12	89.8
							VTVEDLFSEDFKIHDPEAK	73	1110.07	2	2218.12	2218.08	18
							YEISPDKEYVLFSYNVEPVYQHSHTGYY'	73	1285.82	3	3854.43	3853.85	108.8
							HLYSANTVDDFNR	72	776.69	2	1551.37	1550.71	220.3
							IYFLSTEDLPR	72	677.70	2	1353.39	1352.70	230.6
							EGVIYNGLSDWLYEEEILK	71	1135.84	2	2269.66	2269.12	199.1
							VAVFGKDYGGYLSTYILPAK	71	1081.92	2	2161.83	2161.15	146.4
							HLYSANTVDDFNR	70	776.73	2	1551.45	1550.71	170
							VSALEDQQFLIIHATADEK	70	1064.35	2	2126.69	2127.08	187.7
							IYFLSTEDLPR	69	677.79	2	1353.56	1352.70	98.8
							KVTVEDLFSEDFK	68	779.38	2	1556.74	1555.78	23.2
							NKIYFLSTEDLPR	68	798.82	2	1595.63	1594.84	130.1
							MFDLEANEEVQK	66	726.90	2	1451.79	1451.66	92.7
							VAVFGKDYGGYLSTYILPAK	66	1082.08	2	2162.14	2161.15	3.9
							VTVEDLFSEDFK	66	715.09	2	1428.17	1427.68	339.4
							HLYSANTVDDFNR	64	1551.72	1	1550.71	1550.71	0.4
							MFDLEANEEVQK	64	727.04	2	1452.06	1451.66	272.5
							IPHGDPQSLDPPEVSNAK	63	950.58	2	1899.15	1899.93	112.1
							KKVTVEDLFSEDFK	63	843.44	2	1684.86	1683.87	8.3
							LYASAFSER	63	522.64	2	1043.27	1042.51	232.7
							VTVEDLFSEDFK	63	715.19	2	1428.37	1427.68	217.9
							MFDLEANEEVQK	62	726.90	2	1451.78	1451.66	81
							KVTVEDLFSEDFK	61	778.93	2	1555.85	1555.78	50
							VSALEDQQFLIIHATADEK	61	1064.56	2	2127.10	2127.08	5
							VTVEDLFSEDFKIHDPEAK	61	740.23	3	2217.67	2218.08	182.5
							IPHGDPQSLDPPEVSNAK	59	951.36	2	1900.71	1899.93	114.6
							IPHGDPQSLDPPEVSNAK	59	951.00	2	1899.99	1899.93	32.6
							VTVEDLFSEDFKIHDPEAK	59	1109.95	2	2217.88	2218.08	91
							NKIYFLSTEDLPR	58	798.91	2	1595.80	1594.84	22.9
							VTVEDLFSEDFK	58	714.88	2	1427.74	1427.68	43.2
							EGVIYNGLSDWLYEEEILK	57	1135.87	2	2269.72	2269.12	172.7
							KGSVILR	56	386.93	2	771.85	771.50	462.7
							KVTVEDLFSEDFK	56	779.37	2	1556.73	1555.78	27.2
							VTVEDLFSEDFK	56	714.77	2	1427.53	1427.68	107.2
							KVTVEDLFSEDFK	55	779.26	2	1556.51	1555.78	171.1
							VAVFGKDYGGYLSTYILPAK	55	1082.06	2	2162.10	2161.15	23.3
							VVSTGKEGVIYNGLSDWLYEEEILK	55	947.68	3	2840.01	2840.45	153
							HLYSANTVDDFNR	54	776.47	2	1550.92	1550.71	133.1
							KKVTVEDLFSEDFK	54	842.96	2	1683.91	1683.87	24.8
							VVSTGKEGVIYNGLSDWLYEEEILK	54	947.59	3	2839.75	2840.45	107.5
							KGSVILR	53	386.88	2	771.74	771.50	311
							QNEEPVFSKDGR	53	703.74	2	1405.46	1404.66	145.7

							ILSYDEKR	52	512.40	2	1022.79	1022.54	246.4
							HLYSANTVDDFNR	51	776.66	2	1551.30	1550.71	267.9
							VTVEDLFSEDFKIHDPEAK	51	1110.53	2	2219.05	2218.08	12.5
							WISNKEFIYR	51	678.82	2	1355.62	1354.70	58.6
							WISNKEFIYR	51	678.75	2	1355.49	1354.70	154
							LYASAFSER	50	522.30	2	1042.59	1042.51	79.1
							VTVEDLFSEDFKIHDPEAK	50	740.62	3	2218.85	2218.08	103.6
							ILSYDEKR	49	512.69	2	1023.37	1022.54	164
							ILSYDEKR	48	512.62	2	1023.23	1022.54	304.9
							IPHGDPQSLDPPEVSNAK	48	951.41	2	1900.81	1899.93	62.5
							IPHGDPQSLDPPEVSNAK	47	951.35	2	1900.68	1899.93	130.9
							QNEEPVFSKDGR	47	703.66	2	1405.30	1404.66	255.9
							VSALEDQQFLIIHATADEK	47	710.31	3	2127.90	2127.08	84.5
							IPHGDPQSLDPPEVSNAK	46	951.29	2	1900.56	1899.93	198.3
							YLGLHGLDNR	46	579.42	2	1156.83	1156.60	201.4
							EGVIYNGLSDWLYEEEILK	45	1135.80	2	2269.59	2269.12	208.9
							IHDPEAK	45	405.56	2	809.10	808.41	381.3
							IYFLSTEDLPR	45	1353.67	1	1352.66	1352.70	24.3
							HLYSANTVDDFNR	44	776.32	2	1550.62	1550.71	59.6
							VTVEDLFSEDFKIHDPEAK	43	1110.42	2	2218.83	2218.08	112.6
							IYFLSTEDLPR	42	1353.80	1	1352.79	1352.70	68.1
							TMLKEQYIDKTR	42	763.75	2	1525.49	1524.80	202.7
							WISNKEFIYR	42	678.82	2	1355.62	1354.70	61.7
							YLGLHGLDNR	42	579.52	2	1157.02	1156.60	360.3
							ILSYDEKR	41	512.67	2	1023.33	1022.54	202.4
							ILSYDEKR	41	512.58	2	1023.15	1022.54	384.1
							IPHGDPQSLDPPEVSNAK	41	634.34	3	1900.00	1899.93	37.9
							KKVTVEDLFSEDFK	40	843.26	2	1684.50	1683.87	218.1
							TMLKEQYIDK	40	635.31	2	1268.60	1267.65	41.2
							VSALEDQQFLIIHATADEK	40	1065.04	2	2128.07	2127.08	5.3
							HLYSANTVDDFNR	39	1551.82	1	1550.81	1550.71	66.6
							ILSYDEKR	39	512.37	2	1022.72	1022.54	176
							IPHGDPQSLDPPEVSNAK	39	951.36	2	1900.70	1899.93	123.6
							VTVEDLFSEDFKIHDPEAK	39	1110.48	2	2218.94	2218.08	63.9
							ILSYDEKR	38	512.70	2	1023.38	1022.54	155.4
							ILSYDEKR	38	512.64	2	1023.27	1022.54	259.9
							IYFLSTEDLPR	38	677.71	2	1353.41	1352.70	213.4
							QNEEPVFSK	38	539.63	2	1077.25	1076.51	245.3
							QNEEPVFSK	38	539.55	2	1077.09	1076.51	395.8
							WISNKEFIYR	37	452.88	3	1355.60	1354.70	73.4
							ERKGSVILR	36	529.33	2	1056.65	1056.64	10.8
							IHDPEAK	36	405.34	2	808.67	808.41	320
							IPHGDPQSLDPPEVSNAK	36	634.52	3	1900.53	1899.93	213.1
							IYFLSTEDLPR	36	677.56	2	1353.11	1352.70	307.5
							QNEEPVFSK	36	1077.59	1	1076.58	1076.51	60.2
							VSALEDQQFLIIHATADEK	36	710.04	3	2127.10	2127.08	8.9
							AYEMTK	35	742.45	1	741.44	741.34	145.7
							AYEMTK	35	742.47	1	741.46	741.34	169.9
							IHDPEAK	35	809.53	1	808.53	808.41	145.7
							EQYIDKTR	34	526.81	2	1051.61	1051.53	74.9
							FFFVR	34	358.45	2	714.88	714.39	690.5
							VTVEDLFSEDFKIHDPEAK	34	740.62	3	2218.84	2218.08	109.8
							IPHGDPQSLDPPEVSNAK	33	951.33	2	1900.64	1899.93	155.1
							IPHGDPQSLDPPEVSNAK	33	951.26	2	1900.51	1899.93	220.4
							VAVFGKDYGGYLSTYILPAK	33	721.50	3	2161.47	2161.15	150.2
							EQYIDK	32	795.44	1	794.43	794.38	61.3
							FFFVR	32	358.51	2	715.00	714.39	537.1
							GSVILR	32	323.04	2	644.07	643.40	516
							ILSYDEK	31	867.54	1	866.53	866.44	109.8
							KGSVILR	31	772.71	1	771.70	771.50	267
							WISNK	31	647.34	1	646.33	646.34	20.2
							FFFVR	30	358.33	2	714.65	714.39	368.5
							FFFVR	30	358.55	2	715.08	714.39	432.1
							IHDPEAK	30	809.47	1	808.46	808.41	62.8
							KFFFVR	30	422.40	2	842.79	842.48	371.9
							QNEEPVFSK	30	1077.51	1	1076.50	1076.51	13
DPP10	91	2097	100%	18	40	24	VPVVSLHITDNPSR	95	767.72	2	1533.43	1532.83	263.8
							ILHIDDYELPLQLSFPK	90	1021.50	2	2040.99	2040.09	50.8
							VPVVSLHITDNPSR	88	767.81	2	1533.61	1532.83	146.9
							IGSVEAKDQVAAVK	79	708.19	2	1414.36	1413.78	296.4
							ILHIDDYELPLQLSFPK	70	1021.53	2	2041.04	2040.09	26.3
							ILHIDDYELPLQLSFPK	69	1021.35	2	2040.69	2040.09	197.8
							IYFLSTESSPQGR	69	742.96	2	1483.91	1483.73	120

							ILHIDDYELPLQLSFPK	68	1021.55	2	2041.09	2040.09	0.8
							ILHIDDYELPLQLSFPK	65	1021.46	2	2040.90	2040.09	94.9
							IYFLSTESSPQGR	65	743.20	2	1484.38	1483.73	235.1
							LYASAFSER	63	522.64	2	1043.27	1042.51	232.7
							FHVDWDSVLIDTDNVIVAR	62	1107.93	2	2213.84	2213.11	123
							QLYSASTEGLLNR	62	726.75	2	1451.49	1450.74	173.6
							ILAYDETTQK	61	591.64	2	1181.27	1180.60	274.1
							ILAYDETTQK	59	591.37	2	1180.72	1180.60	106.8
							FHVDWDSVLIDTDNVIVAR	56	1107.89	2	2213.77	2213.11	155.5
							ILHIDDYELPLQLSFPK	55	1021.41	2	2040.81	2040.09	139
							QNEEPVFSR	53	553.37	2	1104.72	1104.52	178.9
							YLLKQPYIDSK	52	684.55	2	1367.08	1366.75	241.6
							FTGALYPK	50	448.91	2	895.81	895.48	373.3
							LYASAFSER	50	522.30	2	1042.59	1042.51	79.1
							YFLLENNSVMK	49	679.57	2	1357.12	1356.67	327.3
							FTGALYPK	47	449.07	2	896.13	895.48	393.8
							FHVDWDSVLIDTDNVIVAR	43	1107.83	2	2213.65	2213.11	210.6
							GFGLHNPEPR	42	562.71	2	1123.41	1122.56	126.6
							YFLLENNSVMK	42	679.50	2	1356.98	1356.67	227.6
							FTGALYPK	41	448.84	2	895.66	895.48	196.8
							HSLSPDLK	41	449.07	2	896.13	895.48	387.1
							QNEEPVFSR	41	553.66	2	1105.31	1104.52	193.1
							YLLKQPYIDSK	40	684.54	2	1367.07	1366.75	237.2
							LSLEELLGK	37	501.62	2	1001.22	1000.58	359.5
							ILHIDDYELPLQLSFPK	36	681.36	3	2041.06	2040.09	14.3
							QYPYPK	36	795.38	1	794.37	794.40	28.3
							LSLEELLGK	34	501.76	2	1001.50	1000.58	78.7
							QNEEPVFSR	33	1105.73	1	1104.72	1104.52	179.9
							AKQYPYPK	32	497.79	2	993.57	993.53	45.6
							HLTSGNWEVIR	31	656.82	2	1311.62	1310.67	40.8
							HSLSPDLK	31	448.74	2	895.46	895.48	20.8
							FTGALYPK	30	449.11	2	896.20	895.48	317.9
							ILAYDETTQK	30	1181.57	1	1180.56	1180.60	32
Kvβ1	45	131	100%	2	3	5	LYWGGKAETER	47	655.34	2	1308.66	1308.65	12.7
							RSSLVITTK	45	502.89	2	1003.77	1003.60	171.4
							RSSLVITTK	39	502.95	2	1003.89	1003.60	285
Gabra-6	50	309	100%	1	4	3	ILDNLLEGYDNR	97	717.85	2	1433.68	1433.72	23.2
							ILDNLLEGYDNR	80	718.21	2	1434.41	1433.72	209.3
							ILDNLLEGYDNR	71	718.27	2	1434.52	1433.72	132.6
							ILDNLLEGYDNR	61	718.19	2	1434.36	1433.72	248.5
Gpr158	136	421	100%	5	8	5	EQTVQDDLQWYQALVR	82	996.69	2	1991.36	1990.97	195.7
							EQTVQDDLQWYQALVR	69	996.85	2	1991.68	1990.97	146.7
							VFSVNNFQR	56	555.98	2	1109.94	1109.56	337.1
							VFSVNNFQR	55	556.05	2	1110.08	1109.56	433.4
							RITEIPETVSR	53	651.32	2	1300.63	1299.71	64.6
							TPVLPGR	40	370.64	2	739.27	738.44	234.5
							LAEEVPVDVASYLYTGDFHQLK	34	832.35	3	2494.04	2493.24	80.1
							TPVLPGR	32	370.31	2	738.60	738.44	221.8
Prkcβ1	78	312	100%	3	7	8	KGTDELYAVK	66	562.65	2	1123.28	1122.59	277.4
							TFCGTPDYIAPEIIAYQPYGK	55	1202.55	2	2403.09	2403.15	21.7
							NIDQSEFEGFSFVNSEFLKPEVK	41	1346.03	2	2690.05	2689.29	89.8
							NIDQSEFEGFSFVNSEFLKPEVK	40	897.74	3	2690.19	2689.29	38.8
							TFCGTPDYIAPEIIAYQPYGK	39	1202.75	2	2403.48	2403.15	138.8
							TFCGTPDYIAPEIIAYQPYGK	36	1202.43	2	2402.85	2403.15	124.9
							KGTDELYAVK	35	562.31	2	1122.60	1122.59	6.9