

Table S1 Proteomic identification of proteins in GFP Ab immunoprecipitate from whole cell lysate of HEK293 cells expressing KCNQ1-GFP and HA-KCNE1-dsR

#	Uniprot-Accession	Short Name	Ratio of Σ PSM ^a [+] ^b / [-] ^c	Σ PSM [+]	Σ PSM [-]	Gene Symbol
1	P29966	Myristoylated alanine-rich C-kinase substrate		8	0	MARCS
2	P13797	Plastin-3		7	0	PLST
3	Q86YZ3	Hornerin		7	0	HORN
4	P50990	T-complex protein 1 subunit theta		6	0	TCPQ
5	P15531	Nucleoside diphosphate kinase A		6	0	NDKA
6	P35580	Myosin-10		6	0	MYH10
7	Q01581	Hydroxymethylglutaryl-CoA synthase, cytoplasmic		6	0	HMCS1
8	O75955	Flotillin-1		6	0	FLOT1
9	P80723	Brain acid soluble protein 1		5	0	BASP1
10	P48681	Nestin		5	0	NEST
11	Q06830	Peroxiredoxin-1		5	0	PRDX1
12	O43707	Alpha-actinin-4		4	0	ACTN4
13	O43175	D-3-phosphoglycerate dehydrogenase		4	0	SERA
14	P09874	Poly [ADP-ribose] polymerase 1		4	0	PARP1
15	P15259	Phosphoglycerate mutase 2		3	0	PGAM2
16	P27824	Calnexin		3	0	CALX
17	O94905	Erlin-2		3	0	ERLN2
18	P31943	Heterogeneous nuclear ribonucleoprotein H		3	0	HNRH1
19	P53396	ATP-citrate synthase		3	0	ACLY
20	P27797	Calreticulin		2	0	CALR
21	P07737	Profilin-1		2	0	PROF1
22	P31948	Stress-induced-phosphoprotein 1		2	0	STIP1
23	P46940	Ras GTPase-activating-like protein IQGAP1		2	0	IQGA1
24	Q13162	Peroxiredoxin-4		2	0	PRDX4
25	P11940	Polyadenylate-binding protein 1		2	0	PABP1
26	P18206	Vinculin		2	0	VINC
27	P61981	14-3-3 protein gamma		2	0	1433G
28	Q9Y266	Nuclear migration protein nudC		2	0	NUDC
29	A6NIZ1	Ras-related protein Rap-1b-like protein		2	0	RP1BL
30	P04083	Annexin A1		2	0	ANXA1
31	P11586	C-1-tetrahydrofolate synthase, cytoplasmic		2	0	C1TC
32	P12956	X-ray repair cross-complementing protein 6		2	0	XRCC6
33	P04181	Ornithine aminotransferase, mitochondrial		2	0	OAT
34	P24752	Acetyl-CoA acetyltransferase, mitochondrial		2	0	THIL

35	P33176	Kinesin-1 heavy chain		2	0	KINH
36	P48643	T-complex protein 1 subunit epsilon		2	0	TCPE
37	P55209	Nucleosome assembly protein 1-like 1		2	0	NP1L1
38	Q99733	Nucleosome assembly protein 1-like 4		2	0	NP1L4
39	Q15084	Protein disulfide-isomerase A6		2	0	PDIA6
40	Q99798	Aconitate hydratase, mitochondrial		2	0	ACON
41	O00299	Chloride intracellular channel protein 1		2	0	CLIC1
42	Q96P63	Serpin B12		2	0	SPB12
43	P50454	Serpin H1		2	0	SERPH
44	P61088	Ubiquitin-conjugating enzyme E2 N		2	0	UBE2N
45	P63244	Guanine nucleotide-binding protein subunit beta-2-like 1		2	0	GBLP
46	Q9H668	CST complex subunit STN1		2	0	STN1
47	P30153	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform		2	0	2AAA
48	P34932	Heat shock 70 kDa protein 4		2	0	HSP74
49	Q9UNM6	26S proteasome non-ATPase regulatory subunit 13		2	0	PSD13
50	Q92841	Probable ATP-dependent RNA helicase DDX17		2	0	DDX17
51	Q562R1	Beta-actin-like protein 2	15.3	46	3	ACTBL
52	P06576	ATP synthase subunit beta, mitochondrial	12.0	12	1	ATPB
53	P68032	Actin, alpha cardiac muscle 1	9.0	126	14	ACTC
54	P60709	Actin, cytoplasmic 1	8.8	229	26	ACTB
55	P68104	Elongation factor 1-alpha 1	7.0	14	2	EF1A1
56	P68363	Tubulin alpha-1B chain	6.4	32	5	TBA1B
57	P21333	Filamin-A	6.4	89	14	FLNA
58	P13639	Elongation factor 2	6.0	6	1	EF2
59	P23526	Adenosylhomocysteinase	6.0	6	1	SAHH
60	P23396	40S ribosomal protein S3	5.0	5	1	RS3
61	P37802	Transgelin-2	5.0	5	1	TAGL2
62	P05023	Sodium/potassium-transporting ATPase subunit alpha-1	5.0	5	1	AT1A1
63	Q6UWP8	Suprabasin	5.0	5	1	SBSN
64	P14618	Pyruvate kinase PKM	5.0	10	2	KPYM
65	P15924	Desmoplakin	4.7	28	6	DESP
66	P04075	Fructose-bisphosphate aldolase A	4.5	9	2	ALDOA
67	Q00610	Clathrin heavy chain 1	4.5	9	2	CLH1
68	P06733	Alpha-enolase	4.5	9	2	ENOA
69	P35579	Myosin-9	4.3	17	4	MYH9
70	Q02413	Desmoglein-1	4.3	17	4	DSG1
71	P12277	Creatine kinase B-type	4.0	4	1	KCRB
72	Q01469	Fatty acid-binding protein, epidermal	4.0	4	1	FABP5
73	Q99623	Prohibitin-2	4.0	4	1	PHB2
74	Q00839	Heterogeneous nuclear ribonucleoprotein U	4.0	4	1	HNRPU

75	P06744	Glucose-6-phosphate isomerase	4.0	8	2	G6PI
76	P60842	Eukaryotic initiation factor 4A-I	4.0	8	2	IF4A1
77	P04406	Glyceraldehyde-3-phosphate dehydrogenase	3.8	15	4	G3P
78	Q08554	Desmocollin-1	3.8	15	4	DSC1
79	P08107	Heat shock 70 kDa protein 1A/1B	3.8	30	8	HSP71
80	P27348	14-3-3 protein theta	3.7	11	3	1433T
81	P51148	Ras-related protein Rab-5C	3.5	7	2	RAB5C
82	P07195	L-lactate dehydrogenase B chain	3.3	20	6	LDHB
83	P08238	Heat shock protein HSP 90-beta	3.1	59	19	HS90B
84	P17987	T-complex protein 1 subunit alpha	3.0	3	1	TCPA
85	Q99832	T-complex protein 1 subunit eta	3.0	3	1	TCPH
86	P26640	Valine--tRNA ligase	3.0	3	1	SYVC
87	Q15691	Microtubule-associated protein RP/EB family member 1	3.0	3	1	MARE1
88	P22314	Ubiquitin-like modifier-activating enzyme 1	3.0	3	1	UBA1
89	Q9Y490	Talin-1	3.0	3	1	TLN1
90	Q13509	Tubulin beta-3 chain	3.0	9	3	TBB3
91	P60174	Triosephosphate isomerase	3.0	9	3	TPIS
92	P11142	Heat shock cognate 71 kDa protein	2.7	35	13	HSP7C
93	P07900	Heat shock protein HSP 90-alpha	2.7	43	16	HS90A
94	Q13885	Tubulin beta-2A chain	2.7	24	9	TBB2A
95	P14625	Endoplasmin	2.6	13	5	ENPL
96	P62258	14-3-3 protein epsilon	2.6	13	5	1433E
97	P07237	Protein disulfide-isomerase	2.5	5	2	PDIA1
98	Q13263	Transcription intermediary factor 1-beta	2.5	5	2	TIF1B
99	Q14697	Neutral alpha-glucosidase AB	2.5	5	2	GANAB
100	P07437	Tubulin beta chain	2.4	39	16	TBB5
101	P11021	78 kDa glucose-regulated protein	2.3	16	7	GRP78
102	P07355	Annexin A2	2.2	11	5	ANXA2
103	P63104	14-3-3 protein zeta/delta	2.2	13	6	1433Z
104	P04040	Catalase	2.0	2	1	CATA
105	Q9Y2J2	Band 4.1-like protein 3	2.0	4	2	E41L3
106	P07814	Bifunctional glutamate/proline--tRNA ligase	2.0	4	2	SYEP
107	P31946	14-3-3 protein beta/alpha	2.0	4	2	1433B
108	P25705	ATP synthase subunit alpha, mitochondrial	2.0	8	4	ATPA
109	P30101	Protein disulfide-isomerase A3	2.0	8	4	PDIA3

a: Σ PSM: Sum of peptide-spectrum matches.

b: [+]: Positive immunoprecipitate from whole cell lysates of HEK293 cells expressing Q1-GFP/HA-E1-dsR with GFP rabbit and goat antibodies.

c: [-]: Negative immunoprecipitate from whole cell lysates of untransfected HEK293 cells under the same conditions as positive immunoprecipitate.