

Table S2 Proteomic identification of proteins in dsRed 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	P08670	Vimentin		17	0	VIME
2	P15924	Desmoplakin		17	0	DESP
3	P13797	Plastin-3		7	0	PLST
4	P80723	Brain acid soluble protein 1		5	0	BASP1
5	P13639	Elongation factor 2		5	0	EF2
6	P06733	Alpha-enolase		5	0	ENOA
7	O43707	Alpha-actinin-4		4	0	ACTN4
8	O43175	D-3-phosphoglycerate dehydrogenase		4	0	SERA
9	P42704	Leucine-rich PPR motif-containing protein, mitochondrial		4	0	LPPRC
10	Q13263	Transcription intermediary factor 1-beta		4	0	TIF1B
11	P0CG48	Polyubiquitin-C		4	0	UBC
12	P23396	40S ribosomal protein S3		3	0	RS3
13	O96005	Cleft lip and palate transmembrane protein 1		3	0	CLPT1
14	Q01469	Fatty acid-binding protein, epidermal		3	0	FABP5
15	Q00325	Phosphate carrier protein, mitochondrial		3	0	MPCP
16	Q99832	T-complex protein 1 subunit eta		3	0	TCPH
17	P26640	Valine--tRNA ligase		3	0	SYVC
18	O75390	Citrate synthase, mitochondrial		3	0	CISY
19	Q9UJZ1	Stomatin-like protein 2, mitochondrial		3	0	STML2
20	Q12931	Heat shock protein 75 kDa, mitochondrial		3	0	TRAP1
21	P49411	Elongation factor Tu, mitochondrial		3	0	EFTU
22	P49368	T-complex protein 1 subunit gamma		3	0	TCPG
23	P00505	Aspartate aminotransferase, mitochondrial		3	0	AATM
24	P04632	Calpain small subunit 1		2	0	CPNS1
25	P04040	Catalase		2	0	CATA
26	P23528	Cofilin-1		2	0	COF1
27	P27797	Calreticulin		2	0	CALR
28	P24534	Elongation factor 1-beta		2	0	EF1B
29	P12277	Creatine kinase B-type		2	0	KCRB
30	P01610	Ig kappa chain V-I region WEA		2	0	KV118
31	P05455	Lupus La protein		2	0	LA
32	P19474	E3 ubiquitin-protein ligase TRIM21		2	0	RO52
33	P10599	Thioredoxin		2	0	THIO
34	P47929	Galectin-7		2	0	LEG7

35	Q01581	Hydroxymethylglutaryl-CoA synthase, cytoplasmic		2	0	HMCS1
36	Q13162	Peroxiredoxin-4		2	0	PRDX4
37	P11940	Polyadenylate-binding protein 1		2	0	PABP1
38	O75955	Flotillin-1		2	0	FLOT1
39	P61026	Ras-related protein Rab-10		2	0	RAB10
40	P60660	Myosin light polypeptide 6		2	0	MYL6
41	P40222	Alpha-taxilin		2	0	TXLNA
42	Q99623	Prohibitin-2		2	0	PHB2
43	O43837	Isocitrate dehydrogenase [NAD] subunit beta, mitochondrial		2	0	IDH3B
44	P58107	Epiplakin		2	0	EPIPL
45	O75396	Vesicle-trafficking protein SEC22b		2	0	SC22B
46	P11586	C-1-tetrahydrofolate synthase, cytoplasmic		2	0	C1TC
47	P04843	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1		2	0	RPN1
48	P35232	Prohibitin		2	0	PHB
49	P55209	Nucleosome assembly protein 1-like 1		2	0	NP1L1
50	Q15084	Protein disulfide-isomerase A6		2	0	PDIA6
51	Q13835	Plakophilin-1		2	0	PKP1
52	P22314	Ubiquitin-like modifier-activating enzyme 1		2	0	UBA1
53	Q562R1	Beta-actin-like protein 2	32.00	32	1	ACTBL
54	P35579	Myosin-9	15.00	15	1	MYH9
55	P21333	Filamin-A	12.14	85	7	FLNA
56	P60709	Actin, cytoplasmic 1	9.59	163	17	ACTB
57	P68032	Actin, alpha cardiac muscle 1	8.80	88	10	ACTC
58	P06576	ATP synthase subunit beta, mitochondrial	8.00	8	1	ATPB
59	Q13509	Tubulin beta-3 chain	7.50	15	2	TBB3
60	Q13885	Tubulin beta-2A chain	7.33	22	3	TBB2A
61	P48681	Nestin	7.00	7	1	NEST
62	P68104	Elongation factor 1-alpha 1	6.50	13	2	EF1A1
63	P27348	14-3-3 protein theta	6.00	6	1	1433T
64	P68363	Tubulin alpha-1B chain	5.83	35	6	TBA1B
65	P04406	Glyceraldehyde-3-phosphate dehydrogenase	5.50	11	2	G3P
66	P51148	Ras-related protein Rab-5C	5.00	5	1	RAB5C
67	P29966	Myristoylated alanine-rich C-kinase substrate	5.00	5	1	MARCS
68	P61978	Heterogeneous nuclear ribonucleoprotein K	5.00	5	1	HNRPK
69	Q06830	Peroxiredoxin-1	5.00	5	1	PRDX1
70	P68371	Tubulin beta-4B chain	5.00	25	5	TBB4B
71	P50990	T-complex protein 1 subunit theta	4.50	9	2	TCPQ

72	P10809	60 kDa heat shock protein, mitochondrial	4.33	13	3	CH60
73	P17987	T-complex protein 1 subunit alpha	4.00	4	1	TCPA
74	P07237	Protein disulfide-isomerase	4.00	4	1	PDIA1
75	Q14697	Neutral alpha-glucosidase AB	4.00	4	1	GANAB
76	P25705	ATP synthase subunit alpha, mitochondrial	4.00	8	2	ATPA
77	Q14974	Importin subunit beta-1	4.00	8	2	IMB1
78	P11021	78 kDa glucose-regulated protein	4.00	12	3	GRP78
79	Q02413	Desmoglein-1	4.00	12	3	DSG1
80	P07437	Tubulin beta chain	3.67	33	9	TBB5
81	P14618	Pyruvate kinase PKM	3.50	7	2	KPYM
82	P38646	Stress-70 protein, mitochondrial	3.50	7	2	GRP75
83	P60842	Eukaryotic initiation factor 4A-I	3.50	7	2	IF4A1
84	P14625	Endoplasmic reticulum chaperonin	3.33	10	3	ENPL
85	P08107	Heat shock 70 kDa protein 1A/1B	3.33	20	6	HSP71
86	P11142	Heat shock cognate 71 kDa protein	3.17	19	6	HSP7C
87	P15531	Nucleoside diphosphate kinase A	3.00	3	1	NDKA
88	P35580	Myosin-10	3.00	3	1	MYH10
89	P08865	40S ribosomal protein SA	3.00	3	1	RSSA
90	P78371	T-complex protein 1 subunit beta	3.00	3	1	TCPB
91	P23526	Adenosylhomocysteinase	3.00	3	1	SAHH
92	P07814	Bifunctional glutamate/proline--tRNA ligase	3.00	3	1	SYEP
93	P06744	Glucose-6-phosphate isomerase	3.00	6	2	G6PI
94	P62258	14-3-3 protein epsilon	3.00	6	2	1433E
95	P07195	L-lactate dehydrogenase B chain	2.80	14	5	LDHB
96	P08238	Heat shock protein HSP 90-beta	2.79	39	14	HS90B
97	P49327	Fatty acid synthase	2.75	11	4	FAS
98	P01857	Ig gamma-1 chain C region	2.60	13	5	IGHG1
99	P63104	14-3-3 protein zeta/delta	2.50	5	2	1433Z
100	P26641	Elongation factor 1-gamma	2.25	9	4	EF1G
101	P12235	ADP/ATP translocase 1	2.00	2	1	ADT1
102	P39019	40S ribosomal protein S19	2.00	2	1	RS19
103	Q9Y2J2	Band 4.1-like protein 3	2.00	2	1	E41L3
104	P05023	Sodium/potassium-transporting ATPase subunit alpha-1	2.00	2	1	AT1A1
105	P04075	Fructose-bisphosphate aldolase A	2.00	4	2	ALDOA
106	Q08554	Desmocollin-1	2.00	4	2	DSC1
107	P60174	Triosephosphate isomerase	2.00	4	2	TPIS
108	P07355	Annexin A2	2.00	4	2	ANXA2
109	Q15366	Poly(rC)-binding protein 2	2.00	4	2	PCBP2

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 dsRed rabbit antibody.

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