

S1 Table. List of interactants of Flag-HA RRP6 or Flag-HA-MTR4 identified by mass spectrometry. Names of proteins shown in highlight are those also identified by Lubas et al. 2011

RRP6			MTR4		
reference	Gene Symbol	UniProtID	reference	Gene Symbol	UniProtID
ELYS_HUMAN	AHCTF1	Q8WYP5	AKAP8_HUMAN	AKAP8	O43823
AKAP8_HUMAN	AKAP8	O43823	AKP8L_HUMAN	AKAP8L	Q9ULX6
AKP8L_HUMAN	AKAP8L	Q9ULX6	AL3A1_HUMAN	ALDH3A1	P30838
ALDOA_HUMAN	ALDOA	P04075	AL3A2_HUMAN	ALDH3A2	P51648
ANXA2_HUMAN	ANXA2	P07355	ALDOA_HUMAN	ALDOA	P04075
BAG2_HUMAN	BAG2	O95816	ALDOC_HUMAN	ALDOC	P09972
C1D_HUMAN	C1D	Q13901	ANXA2_HUMAN	ANXA2	P07355
PYR1_HUMAN	CAD	P27708	AXA2L_HUMAN	ANXA2P2	A6NMY6
CART_HUMAN	CARTPT	Q16568	DX39B_HUMAN	BAT1	Q13838
TCPB_HUMAN	CCT2	P78371	C1D_HUMAN	C1D	Q13901
TCPG_HUMAN	CCT3	P49368	CALL3_HUMAN	CALML3	P27482
TCPD_HUMAN	CCT4	P50991	CALL5_HUMAN	CALML5	Q9NZT1
TCPH_HUMAN	CCT7	Q99832	CALX_HUMAN	CANX	P27824
TCPQ_HUMAN	CCT8	P50990	CASPE_HUMAN	CASP14	P31944
CDK9_HUMAN	CDK9	P50750	CCAR2_HUMAN	CCAR2	Q8N163
CE170_HUMAN	CEP170	Q5SW79	CDC73_HUMAN	CDC73	Q6P1J9
CAF1B_HUMAN	CHAF1B	Q13112	CATD_HUMAN	CTSD	P07339
CHD9_HUMAN	CHD9	Q3L8U1	DAXX_HUMAN	DAXX	Q9UER7
DDX17_HUMAN	DDX17	Q92841	DDX17_HUMAN	DDX17	Q92841
DD19A_HUMAN	DDX19A	Q9NUU7	DD19B_HUMAN	DDX19B	Q9UMR2
DDX21_HUMAN	DDX21	Q9NR30	DDX21_HUMAN	DDX21	Q9NR30
DDX31_HUMAN	DDX31	Q9H8H2	DDX3X_HUMAN	DDX3X	O00571
DX39A_HUMAN	DDX39A	O00148	DDX46_HUMAN	DDX46	Q7L014
DDX3X_HUMAN	DDX3X	O00571	DDX47_HUMAN	DDX47	Q9H0S4
DDX41_HUMAN	DDX41	Q9UJV9	DDX5_HUMAN	DDX5	P17844
DDX5_HUMAN	DDX5	P17844	DHX15_HUMAN	DHX15	O43143
DDX52_HUMAN	DDX52	Q9Y2R4	DHX9_HUMAN	DHX9	Q08211
DHX15_HUMAN	DHX15	O43143	DYN2_HUMAN	DNM2	P50570
Q7Z3W9_HUMAN	DKFZp686G18:Q7Z3W9		EF1A1_HUMAN	EEF1A1	P68104
DNJA1_HUMAN	DNAJA1	P31689	EF1A2_HUMAN	EEF1A2	Q05639
TDIF2_HUMAN	DNTTIP2	Q5QJE6	EF2_HUMAN	EEF2	P13639
DC1L1_HUMAN	DYNC1LI1	Q9Y6G9	IF4A1_HUMAN	EIF4A1	P60842
EBP2_HUMAN	EBNA1BP2	Q99848	IF4A3_HUMAN	EIF4A3	P38919
EF1A3_HUMAN	EEF1A1P5	Q5VTE0	IF6_HUMAN	EIF6	P56537
EF1A2_HUMAN	EEF1A2	Q05639	ELAV1_HUMAN	ELAVL1	Q15717
IF4A3_HUMAN	EIF4A3	P38919	ENOA_HUMAN	ENO1	P06733
IF6_HUMAN	EIF6	P56537	ENOG_HUMAN	ENO2	P09104
ELAV1_HUMAN	ELAVL1	Q15717	EX3L1_HUMAN	EXOC3L1	Q86VI1
EWS_HUMAN	EWSR1	Q01844	EXOS1_HUMAN	EXOSC1	Q9Y3B2
EXOS1_HUMAN	EXOSC1	Q9Y3B2	EXOSX_HUMAN	EXOSC10	Q01780
EXOSX_HUMAN	EXOSC10	Q01780	EXOS2_HUMAN	EXOSC2	Q13868
EXOS2_HUMAN	EXOSC2	Q13868	EXOS3_HUMAN	EXOSC3	Q9NQT5
EXOS3_HUMAN	EXOSC3	Q9NQT5	EXOS4_HUMAN	EXOSC4	Q9NPD3
EXOS4_HUMAN	EXOSC4	Q9NPD3	EXOS5_HUMAN	EXOSC5	Q9NQT4
EXOS5_HUMAN	EXOSC5	Q9NQT4	EXOS6_HUMAN	EXOSC6	Q5RKV6
EXOS6_HUMAN	EXOSC6	Q5RKV6	EXOS7_HUMAN	EXOSC7	Q15024
EXOS7_HUMAN	EXOSC7	Q15024	EXOS8_HUMAN	EXOSC8	Q96B26
EXOS8_HUMAN	EXOSC8	Q96B26	EXOS9_HUMAN	EXOSC9	Q06265
EXOS9_HUMAN	EXOSC9	Q06265	FA98A_HUMAN	FAM98A	Q8NCA5
FAS_HUMAN	FASN	P49327	FUS_HUMAN	FUS	P35637
FIP1_HUMAN	FIP1L1	Q6UN15	FXR1_HUMAN	FXR1	P51114

FWCH1_HUMAN	FLYWCH1	Q4VC44	G3P_HUMAN	GAPDH	P04406
FUBP3_HUMAN	FUBP3	Q96I24	GCN1_HUMAN	GCN1	Q92616
FUS_HUMAN	FUS	P35637	GBB2_HUMAN	GNB2	P62879
GCN1_HUMAN	GCN1	Q92616	GSTP1_HUMAN	GSTP1	P09211
GNL3L_HUMAN	GNL3L	Q9NVN8	NOG1_HUMAN	GTPBP4	Q9BZE4
TF3C1_HUMAN	GTF3C1	Q12789	H2AV_HUMAN	H2AFV	Q71UI9
TF3C4_HUMAN	GTF3C4	Q9UKN8	HEAT1_HUMAN	HEATR1	Q9H583
TF3C5_HUMAN	GTF3C5	Q9Y5Q8	H12_HUMAN	HIST1H1C	P16403
NOG1_HUMAN	GTPBP4	Q9BZE4	H2A1B_HUMAN	HIST1H2AB	P04908
HDAC2_HUMAN	HDAC2	Q92769	H4_HUMAN	HIST1H4A	P62805
HEAT1_HUMAN	HEATR1	Q9H583	H2B2E_HUMAN	HIST2H2BE	Q16778
H11_HUMAN	HIST1H1A	Q02539	HNRPC_HUMAN	HNRNPC	P07910
H12_HUMAN	HIST1H1C	P16403	HNRC1_HUMAN	HNRNPCL1	O60812
H2A1A_HUMAN	HIST1H2AA	Q96QV6	HNRPD_HUMAN	HNRNPD	Q14103
H4_HUMAN	HIST1H4A	P62805	HNRPF_HUMAN	HNRNPF	P52597
ROA2_HUMAN	HNRNPA2B1	P22626	HNRH1_HUMAN	HNRNPH1	P31943
HNRC1_HUMAN	HNRNPCL1	O60812	HNRH3_HUMAN	HNRNPH3	P31942
HNRPD_HUMAN	HNRNPD	Q14103	HNRPK_HUMAN	HNRNPK	P61978
HNRPF_HUMAN	HNRNPF	P52597	HNRPL_HUMAN	HNRNPL	P14866
HNRH1_HUMAN	HNRNPH1	P31943	HNRPM_HUMAN	HNRNPM	P52272
HNRPK_HUMAN	HNRNPK	P61978	HNRPU_HUMAN	HNRNPU	Q00839
HNRPL_HUMAN	HNRNPL	P14866	HNRL1_HUMAN	HNRNPUL1	Q9BUJ2
HNRPM_HUMAN	HNRNPM	P52272	HNRL2_HUMAN	HNRNPUL2	Q1KMD3
HPT_HUMAN	HP	P00738	HS90A_HUMAN	HSP90AA1	P07900
HS90A_HUMAN	HSP90AA1	P07900	HS71A_HUMAN	HSPA1A	P0DMV8
HS90B_HUMAN	HSP90AB1	P08238	GRP78_HUMAN	HSPA5	P11021
ENPL_HUMAN	HSP90B1	P14625	HSP77_HUMAN	HSPA7	P48741
HS71A_HUMAN	HSPA1A	P0DMV8	HSP7C_HUMAN	HSPA8	P11142
HS71L_HUMAN	HSPA1L	P34931	HSPB1_HUMAN	HSPB1	P04792
HSP72_HUMAN	HSPA2	P54652	IDE_HUMAN	IDE	P14735
GRP78_HUMAN	HSPA5	P11021	ILF2_HUMAN	ILF2	Q12905
HSP76_HUMAN	HSPA6	P17066	ILK_HUMAN	ILK	Q13418
HSP7C_HUMAN	HSPA8	P11142	ILVBL_HUMAN	ILVBL	A1L0T0
GRP75_HUMAN	HSPA9	P38646	IQGA1_HUMAN	IQGAP1	P46940
HSPB1_HUMAN	HSPB1	P04792	KHDR1_HUMAN	KHDRBS1	Q07666
CH60_HUMAN	HSPD1	P10809	LDHA_HUMAN	LDHA	P00338
ILF2_HUMAN	ILF2	Q12905	LDHB_HUMAN	LDHB	P07195
IRX4_HUMAN	IRX4	P78413	LEG7_HUMAN	LGALS7	P47929
PLAK_HUMAN	JUP	P14923	LMNA_HUMAN	LMNA	P02545
KHDR1_HUMAN	KHDRBS1	Q07666	LMO7_HUMAN	LMO7	Q8WWI1
LAS1L_HUMAN	LAS1L	Q9Y4W2	LYAR_HUMAN	LYAR	Q9NX58
LBHD1_HUMAN	LBHD1	Q9BQE6	MATR3_HUMAN	MATR3	P43243
LMNA_HUMAN	LMNA	P02545	MPH6_HUMAN	MPHOSPH6	Q99547
LMNB1_HUMAN	LMNB1	P20700	MSH2_HUMAN	MSH2	P43246
LRC40_HUMAN	LRRRC40	Q9H9A6	MSH6_HUMAN	MSH6	P52701
LSG1_HUMAN	LSG1	Q9H089	MYCBP_HUMAN	MYCBP	Q99417
MAGD1_HUMAN	MAGED1	Q9Y5V3	NCBP1_HUMAN	NCBP1	Q09161
MAGD2_HUMAN	MAGED2	Q9UNF1	NCBP2_HUMAN	NCBP2	P52298
MAP7_HUMAN	MAP7	Q14244	NPM_HUMAN	NPM1	P06748
JIP3_HUMAN	MAPK8IP3	Q9UPT6	NRDE2_HUMAN	NRDE2	Q9H7Z3
MATR3_HUMAN	MATR3	P43243	NUMA1_HUMAN	NUMA1	Q14980
MCM7_HUMAN	MCM7	P33993	PABP2_HUMAN	PABPN1	Q86U42
MGAP_HUMAN	MGA	Q8IW19	PCBP1_HUMAN	PCBP1	Q15365
MISP_HUMAN	MISP	Q8IVT2	PCBP2_HUMAN	PCBP2	Q15366
MPH6_HUMAN	MPHOSPH6	Q99547	PDS5A_HUMAN	PDS5A	Q29RF7
MSH6_HUMAN	MSH6	P52701	PEBP1_HUMAN	PEBP1	P30086

MYCBP_HUMAN	MYCBP	Q99417	PELP1_HUMAN	PELP1	Q8IZL8
NACC1_HUMAN	NACC1	Q96RE7	PFKAP_HUMAN	PFKP	Q01813
NACC2_HUMAN	NACC2	Q96BF6	PGAM2_HUMAN	PGAM2	P15259
NP1L1_HUMAN	NAP1L1	P55209	PKP1_HUMAN	PKP1	Q13835
NCBP1_HUMAN	NCBP1	Q09161	PPIA_HUMAN	PPIA	P62937
NUCL_HUMAN	NCL	P19338	PTBP1_HUMAN	PTBP1	P26599
NOL11_HUMAN	NOL11	Q9H8H0	QSER1_HUMAN	QSER1	Q2KHR3
NOL9_HUMAN	NOL9	Q5SY16	RB11B_HUMAN	RAB11B	Q15907
NOP56_HUMAN	NOP56	O00567	RAB1A_HUMAN	RAB1A	P62820
NOP58_HUMAN	NOP58	Q9Y2X3	RAB7A_HUMAN	RAB7A	P51149
NPM_HUMAN	NPM1	P06748	RACK1_HUMAN	RACK1	P63244
GCR_HUMAN	NR3C1	P04150	RBM10_HUMAN	RBM10	P98175
NUMA1_HUMAN	NUMA1	Q14980	RBM14_HUMAN	RBM14	Q96PK6
NVL_HUMAN	NVL	O15381	RBM39_HUMAN	RBM39	Q14498
PABP2_HUMAN	PABPN1	Q86U42	RBM4_HUMAN	RBM4	Q9BWF3
PCBP2_HUMAN	PCBP2	Q15366	RBM7_HUMAN	RBM7	Q9Y580
PFKAL_HUMAN	PFKL	P17858	RDH11_HUMAN	RDH11	Q8TC12
PFKAP_HUMAN	PFKP	Q01813	RFC2_HUMAN	RFC2	P35250
PPIA_HUMAN	PPIA	P62937	RFC5_HUMAN	RFC5	P40937
PRDX6_HUMAN	PRDX6	P30041	RIF1_HUMAN	RIF1	Q5UIP0
PRKDC_HUMAN	PRKDC	P78527	RL11_HUMAN	RPL11	P62913
ANM5_HUMAN	PRMT5	O14744	RL12_HUMAN	RPL12	P30050
PRP8_HUMAN	PRPF8	Q6P2Q9	RL18_HUMAN	RPL18	Q07020
PRS6B_HUMAN	PSMC4	P43686	RL19_HUMAN	RPL19	P84098
PSMD5_HUMAN	PSMD5	Q16401	RL22_HUMAN	RPL22	P35268
PTBP1_HUMAN	PTBP1	P26599	RL24_HUMAN	RPL24	P83731
PWP2_HUMAN	PWP2	Q15269	RL27A_HUMAN	RPL27A	P46776
QSER1_HUMAN	QSER1	Q2KHR3	RL3_HUMAN	RPL3	P39023
RASL1_HUMAN	RASAL1	O95294	RL31_HUMAN	RPL31	P62899
RBM14_HUMAN	RBM14	Q96PK6	RL38_HUMAN	RPL38	P63173
RBM39_HUMAN	RBM39	Q14498	RL4_HUMAN	RPL4	P36578
RBM7_HUMAN	RBM7	Q9Y580	RL5_HUMAN	RPL5	P46777
RFC2_HUMAN	RFC2	P35250	RL7_HUMAN	RPL7	P18124
RFC3_HUMAN	RFC3	P40938	RL7A_HUMAN	RPL7A	P62424
RFC4_HUMAN	RFC4	P35249	RL8_HUMAN	RPL8	P62917
RIF1_HUMAN	RIF1	Q5UIP0	RL9_HUMAN	RPL9	P32969
RNF12_HUMAN	RLIM	Q9NVW2	RLA0_HUMAN	RPLP0	P05388
RNF219_HUMAN	RNF219	Q5W0B1	RLA1_HUMAN	RPLP1	P05386
RL11_HUMAN	RPL11	P62913	RLA2_HUMAN	RPLP2	P05387
RL12_HUMAN	RPL12	P30050	RPN1_HUMAN	RPN1	P04843
RL13_HUMAN	RPL13	P26373	RS13_HUMAN	RPS13	P62277
RL13A_HUMAN	RPL13A	P40429	RS14_HUMAN	RPS14	P62263
RL14_HUMAN	RPL14	P50914	RS15A_HUMAN	RPS15A	P62244
RL18_HUMAN	RPL18	Q07020	RS16_HUMAN	RPS16	P62249
RL19_HUMAN	RPL19	P84098	RS18_HUMAN	RPS18	P62269
RL22_HUMAN	RPL22	P35268	RS19_HUMAN	RPS19	P39019
RL23_HUMAN	RPL23	P62829	RS2_HUMAN	RPS2	P15880
RL24_HUMAN	RPL24	P83731	RS20_HUMAN	RPS20	P60866
RL27A_HUMAN	RPL27A	P46776	RS3_HUMAN	RPS3	P23396
RL3_HUMAN	RPL3	P39023	RS3A_HUMAN	RPS3A	P61247
RL30_HUMAN	RPL30	P62888	RS4X_HUMAN	RPS4X	P62701
RL31_HUMAN	RPL31	P62899	RS6_HUMAN	RPS6	P62753
RL34_HUMAN	RPL34	P49207	RS7_HUMAN	RPS7	P62081
RL35_HUMAN	RPL35	P42766	RS8_HUMAN	RPS8	P62241
RL38_HUMAN	RPL38	P63173	RUVB1_HUMAN	RUVBL1	Q9Y265
RL4_HUMAN	RPL4	P36578	RUVB2_HUMAN	RUVBL2	Q9Y230

RL6_HUMAN	RPL6	Q02878	SPB13_HUMAN	SERPINB13	Q9UIV8
RL7_HUMAN	RPL7	P18124	SPB3_HUMAN	SERPINB3	P29508
RL8_HUMAN	RPL8	P62917	SPB4_HUMAN	SERPINB4	P48594
RL9_HUMAN	RPL9	P32969	SPB5_HUMAN	SERPINB5	P36952
RLA0_HUMAN	RPLP0	P05388	SF3B1_HUMAN	SF3B1	O75533
RLA1_HUMAN	RPLP1	P05386	SK2L2_HUMAN	SKIV2L2	P42285
RLA2_HUMAN	RPLP2	P05387	4F2_HUMAN	SLC3A2	P08195
RS13_HUMAN	RPS13	P62277	LAT1_HUMAN	SLC7A5	Q01650
RS14_HUMAN	RPS14	P62263	SMC4_HUMAN	SMC4	Q9NTJ3
RS15A_HUMAN	RPS15A	P62244	U520_HUMAN	SNRNP200	O75643
RS16_HUMAN	RPS16	P62249	SPTB2_HUMAN	SPTBN1	Q01082
RS182_HUMAN	RPS18	P62269	SRRT_HUMAN	SRRT	Q9BXP5
RS19_HUMAN	RPS19	P39019	SSRA_HUMAN	SSR1	P43307
RS2_HUMAN	RPS2	P15880	SSRG_HUMAN	SSR3	Q9UNL2
RS21_HUMAN	RPS21	P63220	STK38_HUMAN	STK38	Q15208
RS23_HUMAN	RPS23	P62266	SUGP2_HUMAN	SUGP2	Q8IX01
RS24_HUMAN	RPS24	P62847	SYMPK_HUMAN	SYMPK	Q92797
RS25_HUMAN	RPS25	P62851	TAF12_HUMAN	TAF12	Q16514
RS26_HUMAN	RPS26	P62854	TADBP_HUMAN	TARDBP	Q13148
RS28_HUMAN	RPS28	P62857	TFR1_HUMAN	TFRC	P02786
RS30_HUMAN	RPS30	P62861	A0A024RBE7_HUMAN	TMPO	A0A024RBE7
RS7_HUMAN	RPS7	P62081	TPIS_HUMAN	TPI1	P60174
RS8_HUMAN	RPS8	P62241	TREX2_HUMAN	TREX2	Q9BQ50
RS9_HUMAN	RPS9	P46781	THIO_HUMAN	TXN	P10599
RSSA_HUMAN	RPSA	P08865	UBR5_HUMAN	UBR5	O95071
RUVB1_HUMAN	RUVBL1	Q9Y265	URB2_HUMAN	URB2	Q14146
RUVB2_HUMAN	RUVBL2	Q9Y230	VIME_HUMAN	VIM	P08670
SHC1_HUMAN	SHC1	P29353	VSIG8_HUMAN	VSIG8	Q5VU13
SK2L2_HUMAN	SKIV2L2	P42285	XPO1_HUMAN	XPO1	O14980
U520_HUMAN	SNRNP200	O75643	XRN2_HUMAN	XRN2	Q9H0D6
SMD2_HUMAN	SNRPD2	P62316	YBOX1_HUMAN	YBX1	P67809
SMD3_HUMAN	SNRPD3	P62318	YBOX3_HUMAN	YBX3	P16989
SPA5L_HUMAN	SPATA5L1	Q9BVQ7	1433E_HUMAN	YWHAE	P62258
SPTB2_HUMAN	SPTBN1	Q01082	1433G_HUMAN	YWHAG	P61981
SYNEM_HUMAN	SYNM	O15061	ZC3HE_HUMAN	ZC3H14	Q6PJT7
RBP56_HUMAN	TAF15	Q92804	ZCH18_HUMAN	ZC3H18	Q86VM9
TBL3_HUMAN	TBL3	Q12788	ZCHC8_HUMAN	ZCCHC8	Q6NZY4
HTF4_HUMAN	TCF12	Q99081	ZC3H1_HUMAN	ZFC3H1	O60293
TCPA_HUMAN	TCP1	P17987	ZN326_HUMAN	ZNF326	Q5BKZ1
LAP2A_HUMAN	TMPO	P42166			
TOP2A_HUMAN	TOP2A	P11388			
TRI29_HUMAN	TRIM29	Q14134			
PCH2_HUMAN	TRIP13	Q15645			
SEN54_HUMAN	TSEN54	Q7Z6J9			
THIO_HUMAN	TXN	P10599			
UBR5_HUMAN	UBR5	O95071			
UBP11_HUMAN	USP11	P51784			
UTP18_HUMAN	UTP18	Q9Y5J1			
UTP20_HUMAN	UTP20	O75691			
VIME_HUMAN	VIM	P08670			
WDR18_HUMAN	WDR18	Q9BV38			
WDR3_HUMAN	WDR3	Q9UNX4			
WDR36_HUMAN	WDR36	Q8NI36			
WDR75_HUMAN	WDR75	Q8IWA0			
MEP50_HUMAN	WDR77	Q9BQA1			
WRIP1_HUMAN	WRNIP1	Q96S55			

XRCC5_HUMAN	XRCC5	P13010
XRCC6_HUMAN	XRCC6	P12956
1433B_HUMAN	YWHAB	P31946
1433E_HUMAN	YWHAE	P62258
1433G_HUMAN	YWHAG	P61981
ZBT20_HUMAN	ZBTB20	Q9HC78
ZBT24_HUMAN	ZBTB24	O43167
ZCH18_HUMAN	ZC3H18	Q86VM9
ZCHC8_HUMAN	ZCCHC8	Q6NZY4
ZC3H1_HUMAN	ZFC3H1	O60293
ZN106_HUMAN	ZNF106	Q9H2Y7
ZN281_HUMAN	ZNF281	Q9Y2X9
ZN326_HUMAN	ZNF326	Q5BKZ1
ZN644_HUMAN	ZNF644	Q9H582
Q59F66_HUMAN		Q59F66
Q9P1K8_HUMAN		Q9P1K8