

Supplemental Table 2:

Pull-down with GST-EWS as bait

prot_acc	prot_desc	Mascot ion scores				
		Experiment				
		1	2	3	4	5
EWS_HUMAN	(Q01844) RNA-binding protein EWS	1158	505	703	555	10647
ANM1_HUMAN	(Q99873) Protein arginine N-methyltransferase 1			84	39	663
ROA2_HUMAN	(P22626) Heterogeneous nuclear ribonucleoproteins A2/B1	1625	644	566	663	
ROA1_HUMAN	(P09651) Heterogeneous nuclear ribonucleoprotein A1	1403	498	547	573	
HNRH1_HUMAN	(P31943) Heterogeneous nuclear ribonucleoprotein H	872	71	368		94
HNRH2_HUMAN	(P55795) Heterogeneous nuclear ribonucleoprotein H'	585		255	326	
ROA3_HUMAN	(P51991) Heterogeneous nuclear ribonucleoprotein A3	895	260	208	321	
HNRPU_HUMAN	(Q00839) Heterogeneous nuclear ribonucleoprotein U	65	185	164	49	257
HNRPG_HUMAN	(P38159) Heterogeneous nuclear ribonucleoprotein G	130		147	222	
HNRPM_HUMAN	(P52272) Heterogeneous nuclear ribonucleoprotein M			117	464	650
HNRPQ_HUMAN	(O60506) Heterogeneous nuclear ribonucleoprotein Q			93	73	
HNRPD_HUMAN	(Q14103) Heterogeneous nuclear ribonucleoprotein D0	50			110	
ROAA_HUMAN	(Q99729) Heterogeneous nuclear ribonucleoprotein A/B	32			55	
ROA0_HUMAN	(Q13151) Heterogeneous nuclear ribonucleoprotein A0	182		73	154	
HNRH3_HUMAN	(P31942) Heterogeneous nuclear ribonucleoprotein H3	442	98	52	268	
HNRPF_HUMAN	(P52597) Heterogeneous nuclear ribonucleoprotein F	723	67	21	249	
CIRBP_HUMAN	(Q14011) Cold-inducible RNA-binding protein (hnRNP A18)		64	48	134	
FUS_HUMAN	(P35637) RNA-binding protein FUS (hnRNP P)			216	233	
DDX5_HUMAN	(P17844) Probable RNA-dependent helicase p68	230		255	252	
DDX17_HUMAN	(Q92841) Probable RNA-dependent helicase p72	104		171	142	
DDX3X_HUMAN	(O00571) DEAD-box protein 3, X-chromosomal	101		118	112	
DHX9_HUMAN	(Q08211) ATP-dependent RNA helicase A			105	55	82
Q8IYE5	(Q8IYE5) ATP-dependent RNA helicase DHX36			67	35	
SFRS3_HUMAN	(P84103) Splicing factor, arginine/serine-rich 3	60		80	64	
SFRS9_HUMAN	(Q13242) Splicing factor, arginine/serine-rich 9	117	54		133	
SFRS1_HUMAN	(Q07955) Splicing factor, arginine/serine-rich 1	280	40		123	
SMD3_HUMAN	(P62318) Small nuclear ribonucleoprotein Sm D3	58			75	
SNRPA_HUMAN	(P09012) U1 small nuclear ribonucleoprotein A					
RBP56_HUMAN	(Q92804) TATA-binding protein-associated factor 2N (TAFII68)	63		131		
RS18_HUMAN	(P62269) 40S ribosomal protein S18				31	31
EF1G_HUMAN	(P26641) Elongation factor 1-gamma			33		234
EF1A1_HUMAN	(P68104) Elongation factor 1-alpha 1				88	373
Q96PK6	(Q96PK6) Coactivator activator			67	67	
ACTB_HUMAN	(P60709) Actin, cytoplasmic 1 (Beta-actin)	218	213	78	174	1172
TBAK_HUMAN	(P68363) Tubulin alpha-ubiquitous chain	39	53	51	61	691
TBB2_HUMAN	(P07437) Tubulin beta-2 chain	62		48	83	1236
VIME_HUMAN	(P08670) Vimentin		43			98
RS19_HUMAN	(P39019) 40S ribosomal protein S19					29
RL27A_HUMAN	(P46776) 60S ribosomal protein L27a					23
RS5_HUMAN	(P46782) 40S ribosomal protein S5					83
RS10_HUMAN	(P46783) 40S ribosomal protein S10					123
RS7_HUMAN	(P62081) 40S ribosomal protein S7					26
RS15A_HUMAN	(P62244) 40S ribosomal protein S15a					209
RS16_HUMAN	(P62249) 40S ribosomal protein S16					202
RS14_HUMAN	(P62263) 40S ribosomal protein S14					31
RS18_HUMAN	(P62269) 40S ribosomal protein S18 (Ke-3) (Ke3)					481
RS11_HUMAN	(P62280) 40S ribosomal protein S11					51
RL23_HUMAN	(P62829) 60S ribosomal protein L23 (Ribosomal protein L17)					29
RS25_HUMAN	(P62851) 40S ribosomal protein S25					53
RL38_HUMAN	(P63173) 60S ribosomal protein L38					43
Q5VVD0	(Q5VVD0) Ribosomal protein L11					136
RLA1_HUMAN	(P05386) 60S acidic ribosomal protein P1					75

RLA0_HUMAN	(P05388) 60S acidic ribosomal protein P0 (L10E)	74
RS3_HUMAN	(P23396) 40S ribosomal protein S3	303
RS4X_HUMAN	(P62701) 40S ribosomal protein S4, X isoform	50
Q3MIH3	(Q3MIH3) Ubiquitin and ribosomal protein L40,	29
Q5VXM2	(Q5VXM2) Mitochondrial ribosomal protein L37	97

Pull-down with GST-EWS as bait + Rnase A

prot_acc	prot_desc	Mascot scores		
		Experiment		
		1	2	3
EWS_HUMAN	(Q01844) RNA-binding protein EWS	1158	471	12334
HNRPM_HUMAN	(P52272) Heterogeneous nuclear ribonucleoprotein M		36	466
FUS_HUMAN	(P35637) RNA-binding protein FUS (hnRNP P)	121	84	
DDX5_HUMAN	(P17844) Probable RNA-dependent helicase p68	143	217	54
DDX17_HUMAN	(Q92841) Probable RNA-dependent helicase p72	166	211	
DDX3X_HUMAN	(O00571) DEAD-box protein 3, X-chromosomal	148	241	
TBB2_HUMAN	(P07437) Tubulin beta-2 chain	392		1752
ACTB_HUMAN	(P60709) Actin, cytoplasmic 1 (Beta-actin)	247		1339
RS3_HUMAN	(P23396) 40S ribosomal protein S3			289
Q5VXM2	(Q5VXM2) Mitochondrial ribosomal protein L37 (Fragment)			193
RS13_HUMAN	(P62277) 40S ribosomal protein S13			180
RLA0_HUMAN	(P05388) 60S acidic ribosomal protein P0 (L10E)			174
RS4X_HUMAN	(P62701) 40S ribosomal protein S4			166
RS3A_HUMAN	(P61247) 40S ribosomal protein S3a			158
RL21_HUMAN	(P46778) 60S ribosomal protein L21			137
RL13_HUMAN	(P26373) 60S ribosomal protein L13			130
Q6IPX4	(Q6IPX4) RPS16 protein			107
RS9_HUMAN	(P46781) 40S ribosomal protein S9			105
Q5VVC8	(Q5VVC8) Ribosomal protein L11 (Fragment)			97
RS7_HUMAN	(P62081) 40S ribosomal protein S7			85
RS15_HUMAN	(P62841) 40S ribosomal protein S15 (RIG protein)			77
Q5JR95	(Q5JR95) Ribosomal protein S8			76
RL4_HUMAN	(P36578) 60S ribosomal protein L4 (L1)			75
RS18_HUMAN	(P62269) 40S ribosomal protein S18 (Ke-3) (Ke3)			72
RL3_HUMAN	(P39023) 60S ribosomal protein L3			71
Q6IPH7	(Q6IPH7) RPL14 protein (Ribosomal protein L14 variant)			67
RL27A_HUMAN	(P46776) 60S ribosomal protein L27a			57
Q4VXZ3	(Q4VXZ3) Ribosomal protein S18			45
RL18A_HUMAN	(Q02543) 60S ribosomal protein L18a			40
Q3MIH3	(Q3MIH3) Ubiquitin and ribosomal protein L40			30
RS11_HUMAN	(P62280) 40S ribosomal protein S11			30
RL5_HUMAN	(P46777) 60S ribosomal protein L5			30

Pull-down with methylated GST-EWS as bait

prot_acc	prot_desc	Mascot scores		
		Experiment		
		1	2	3

EWS_HUMAN	(Q01844) RNA-binding protein EWS	873	3463	8595
ANM1_HUMAN	(Q99873) Protein arginine N-methyltransferase 1	98	507	161
FUS_HUMAN	(P35637) RNA-binding protein FUS (hnRNP P)	69	127	35
HNRH1_HUMAN	(P31943) Heterogeneous nuclear ribonucleoprotein H	76	218	40
HNRPD_HUMAN	(Q14103) Heterogeneous nuclear ribonucleoprotein D0	39	73	
HNRPG_HUMAN	(P38159) Heterogeneous nuclear ribonucleoprotein G	39	193	
HNRPM_HUMAN	(P52272) Heterogeneous nuclear ribonucleoprotein M	187		976
HNRPU_HUMAN	(Q00839) Heterogeneous nuclear ribonucleoprotein U	260	118	23
Q5T0N2	(Q5T0N2) Heterogeneous nuclear ribonucleoprotein F	63	252	22
ROA1_HUMAN	(P09651) Heterogeneous nuclear ribonucleoprotein A1	182	786	
ROA2_HUMAN	(P22626) Heterogeneous nuclear ribonucleoproteins A2/B1	179	441	
ROA3_HUMAN	(P51991) Heterogeneous nuclear ribonucleoprotein A3	130	300	
DDX5_HUMAN	(P17844) Probable RNA-dependent helicase p68	160	526	61
DDX3X_HUMAN	(O00571) DEAD-box protein 3, X-chromosomal	65	452	
DHX9_HUMAN	(Q08211) ATP-dependent RNA helicase A	17	135	
CPSF5_HUMAN	(O43809) Cleavage and polyadenylation specificity factor 5	35	41	
EF1A1_HUMAN	(P68104) Elongation factor 1-alpha 1	63	143	412
EF1G_HUMAN	(P26641) Elongation factor 1-gamma	50	43	38
EFTU_HUMAN	(P49411) Elongation factor Tu		127	99
H2A1B_HUMAN	(P04908) Histone H2A type 1-B	63		58
H4_HUMAN	(P62805) Histone H4	22	302	178
MCM7_HUMAN	(P33993) DNA replication licensing factor MCM7		33	165
SMD3_HUMAN	(P62318) Small nuclear ribonucleoprotein Sm D3	37	54	42
ACTB_HUMAN	(P60709) Actin, cytoplasmic 1 (Beta-actin)	115	554	777
TBAK_HUMAN	(P68363) Tubulin alpha-ubiquitous chain	109	229	335
TBB2_HUMAN	(P07437) Tubulin beta-2 chain	191	577	834
TBB2C_HUMAN	(P68371) Tubulin beta-2C chain	188	415	830
VIME_HUMAN	(P08670) Vimentin		186	161
ADT2_HUMAN	(P05141) ADP/ATP translocase 2	59		122
ATPA_HUMAN	(P25705) ATP synthase alpha chain	87	302	478
ATPB_HUMAN	(P06576) ATP synthase beta chain		112	37
ATPO_HUMAN	(P48047) ATP synthase O subunit	45		95
ENOA_HUMAN	(P06733) Alpha-enolase		253	37
G3P_HUMAN	(P04406) Glyceraldehyde-3-phosphate dehydrogenase	100	188	108
GRP75_HUMAN	(P38646) Stress-70 protein, mitochondrial precursor		64	238
HSP7C_HUMAN	(P11142) Heat shock cognate 71 kDa protein	68	63	628
IDHP_HUMAN	(P48735) Isocitrate dehydrogenase [NADP]		115	126
LDHB_HUMAN	(P07195) L-lactate dehydrogenase B chain		197	69
C1TC_HUMAN	(P11586) C-1-tetrahydrofolate synthase, cytoplasmic		59	97
IREB1_HUMAN	(P21399) Iron-responsive element-binding protein 1		68	26
RAC2_HUMAN	(P15153) Ras-related C3 botulinum toxin substrate 2 precursor		54	54
SERA_HUMAN	(O43175) D-3-phosphoglycerate dehydrogenase		83	19
Q5JR95	(Q5JR95) Ribosomal protein S8		177	75
Q5T4L4	(Q5T4L4) Ribosomal protein S27		73	99
Q5VVD0	(Q5VVD0) Ribosomal protein L11	71	86	154
Q5VZM5	(Q5VZM5) Ribosomal protein L21	124	142	
RL10A_HUMAN	(P62906) 60S ribosomal protein L10a (CSA-19)		94	53
RL13_HUMAN	(P26373) 60S ribosomal protein L13		179	77
RL17_HUMAN	(P18621) 60S ribosomal protein L17 (L23)	21	117	22
RL18A_HUMAN	(Q02543) 60S ribosomal protein L18a		62	47
RL27A_HUMAN	(P46776) 60S ribosomal protein L27a		69	70
RL3_HUMAN	(P39023) 60S ribosomal protein L3		42	86
RL31_HUMAN	(P62899) 60S ribosomal protein L31	25		34

RLA0_HUMAN	(P05388) 60S acidic ribosomal protein P0 (L10E)	103		115
RS10_HUMAN	(P46783) 40S ribosomal protein S10		106	156
RS11_HUMAN	(P62280) 40S ribosomal protein S11	23		127
RS13_HUMAN	(P62277) 40S ribosomal protein S13		118	82
RS15A_HUMAN	(P62244) 40S ribosomal protein S15a	57	130	212
RS16_HUMAN	(P62249) 40S ribosomal protein S16		136	482
RS17_HUMAN	(P08708) 40S ribosomal protein S17	86		40
RS18_HUMAN	(P62269) 40S ribosomal protein S18 (Ke-3) (Ke3)	27	163	835
RS19_HUMAN	(P39019) 40S ribosomal protein S19	21	86	48
RS2_HUMAN	(P15880) 40S ribosomal protein S2 (S4) (LLRep3 protein)		38	37
RS3_HUMAN	(P23396) 40S ribosomal protein S3	154	179	309
RS4X_HUMAN	(P62701) 40S ribosomal protein S4, X isoform		74	141
RS7_HUMAN	(P62081) 40S ribosomal protein S7	41	78	72

Pull-down with methylated GST-EWS as bait + Rnase A

prot_acc	prot_desc	Mascot scores		
		Experiment		
		1	2	3
EWS_HUMAN	(Q01844) RNA-binding protein EWS	832	1472	9801
ANM1_HUMAN	(Q99873) Protein arginine N-methyltransferase 1		666	603
SKB1_HUMAN	(O14744) Protein arginine N-methyltransferase 5		73	120
HNRPM_HUMAN	(P52272) Heterogeneous nuclear ribonucleoprotein M	34		788
HNRPU_HUMAN	(Q00839) Heterogenous nuclear ribonucleoprotein U		125	437
DDX5_HUMAN	(P17844) Probable RNA-dependent helicase p68		200	45
EF1A2_HUMAN	(Q05639) Elongation factor 1-alpha 2		54	248
EF1B_HUMAN	(P24534) Elongation factor 1-beta		101	191
EF1G_HUMAN	(P26641) Elongation factor 1-gamma	44	46	209
MCM7_HUMAN	(P33993) DNA replication licensing factor MCM7		33	126
SMD3_HUMAN	(P62318) Small nuclear ribonucleoprotein Sm D3		91	19
ACTB_HUMAN	(P60709) Actin, cytoplasmic 1 (Beta-actin)	143	476	1109
TBAK_HUMAN	(P68363) Tubulin alpha-ubiquitous chain	219	282	603
TBB2_HUMAN	(P07437) Tubulin beta-2 chain	59	696	753
TBB2C_HUMAN	(P68371) Tubulin beta-2C chain	61	659	820
TCPA_HUMAN	(P17987) T-complex protein 1 subunit alpha		141	45
ACPH_HUMAN	(P13798) Acylamino-acid-releasing enzyme		60	22
ATPA_HUMAN	(P25705) ATP synthase alpha chain		114	236
C1TC_HUMAN	(P11586) C-1-tetrahydrofolate synthase, cytoplasmic		44	251
DCD_HUMAN	(P81605) Dermcidin precursor		32	73
DIRA2_HUMAN	(Q96HU8) GTP-binding protein Di-Ras2		21	35
G3P_HUMAN	(P04406) Glyceraldehyde-3-phosphate dehydrogenase	40	241	110
HSP7C_HUMAN	(P11142) Heat shock cognate 71 kDa protein	108	119	936
IDHP_HUMAN	(P48735) Isocitrate dehydrogenase [NADP]		93	83
LDHB_HUMAN	(P07195) L-lactate dehydrogenase B chain		192	68
PSD3_HUMAN	(O43242) 26S proteasome non-ATPase regulatory subunit 3		25	120
Q5CAQ7	(Q5CAQ7) Heat shock protein HSP 90-alpha 2		277	246
Q6NZ56	(Q6NZ56) Hypothetical protein		40	74
Q9NTK6	(Q9NTK6) Hypothetical protein DKFZp761K0511		429	244
RIB1_HUMAN	(P04843) Dolichyl-diphosphooligosaccharide--protein glycosyltransferase		25	83
SERA_HUMAN	(O43175) D-3-phosphoglycerate dehydrogenase		83	79
TFR1_HUMAN	(P02786) Transferrin receptor protein 1		58	48
Q5VVD0	(Q5VVD0) Ribosomal protein L11		47	127

RL13_HUMAN	(P26373) 60S ribosomal protein L13	104	83
RL18A_HUMAN	(Q02543) 60S ribosomal protein L18a	26	51
RL24_HUMAN	(P83731) 60S ribosomal protein L24	80	74
RLA0_HUMAN	(P05388) 60S acidic ribosomal protein P0 (L10E)	123	80
RS13_HUMAN	(P62277) 40S ribosomal protein S13	74	149
RS15A_HUMAN	(P62244) 40S ribosomal protein S15a	113	221
RS16_HUMAN	(P62249) 40S ribosomal protein S16	201	170
RS18_HUMAN	(P62269) 40S ribosomal protein S18 (Ke-3) (Ke3)	126	223
RS3_HUMAN	(P23396) 40S ribosomal protein S3	34	293
RS3A_HUMAN	(P61247) 40S ribosomal protein S3a	43	307
RS4X_HUMAN	(P62701) 40S ribosomal protein S4, X isoform	112	225
RS9_HUMAN	(P46781) 40S ribosomal protein S9	88	78