

Candidate	S. cerevisiae homolog(s)	H. sapiens homolog
ash2	BRE2	ASH2L
** cay1	--	CACTIN
* csx2	--	ACAP1
* ctr1	--	CCDC174
** cwf18	--	CCDC12
** cwf19	--	CWF19L2/L1
est1	EST1	SMG6
hba2	PDR5/10/12/15/18	--
* hri2	--	EIF2AK2/3
ies2	IES2	INO80B
imp1	SRP1	KPNA1/5/6
lem2	LEMD2	SRC1, HEH2
lsg1	CTK3	--
med20	SRB2	MED20
meu17	SGA1	--
mug154	NUR1	--
mug42	--	--
mug78	ATG13	ATG13
mug80	CLG1	--
not3	NOT3/5	CNOT3
nup170	NUP157, NUP170	NUP155
* nup37	--	NUP37
nxt3	BRE5	G3BP1
oma4	PMT4	POMT1
pds5	PDS5	PDS5B
pht1	HTZ1	H2AFZ, H2AFV
png2	YNG1/2, PHO23	ING2/3/4/5
pof4	EKA1	TCEB3, TCEB3B
ppk29	PRK1, ARK1, AKL1	BMP2K, AAK1
* ppn1	--	PPP1R10
prx	--	--
** pwi1	--	SRRM1
* red1	--	ZFC3H1
rhp51	RAD51	RAD51
rnh201	RNH201	RNASEH2A
rpb9	RPB9	POLR21
rpl2102	RPL21A,B	RPL21
rpl4301	RPL43A,B	RPL37A

<b>Screen Hit</b>	<b><i>S. cerevisiae</i> homolog(s)</b>	<b><i>H. sapiens</i> homolog</b>
* <i>rtf2</i>	--	RTFDC1
* <i>rtt109</i>	--	RTT109
* <i>sdu1</i>	--	DES2
<i>smd3</i>	<i>SMD3</i>	SNRPD3
<i>SPAC18G6.13</i>	--	--
* <i>SPAC20H4.06c</i>	--	GPATCH1
<i>SPAC22H10.11c</i>	<i>IFH1, CRF1</i>	--
<i>SPBC1348.03</i>	--	--
<i>SPBC28F2.08c</i>	<i>HRD3</i>	SEL1L, SEL1L2, SEL1L3
* <i>SPBC713.05</i>	--	WRD83
<i>SPCC18.13</i>	<i>TRM82</i>	WDR4
<i>SPCC550.03c</i>	<i>SKI2</i>	SKIV2L
<i>SPCC736.07c</i>	<i>BUD27</i>	URI1
* <i>sdj1</i>	--	PARK7
* <i>spf31</i>	--	DNAJC8
<i>ssu72</i>	<i>SSU72</i>	SSU72
<i>swc2</i>	<i>VPS72</i>	VPS72
<i>swi3</i>	<i>CSm3</i>	TIPIN
<i>toc1</i>	--	--
<i>trs130</i>	<i>TRS130</i>	TRAPPC10
<i>ubr1</i>	<i>UBR1, UBR2</i>	UBR1, UBR2
<i>vps71</i>	<i>VPS71</i>	ZNHIT1
<i>yaf9</i>	<i>YAF9</i>	MLLT3, YEATS4

**Table S4: Many candidates identified in our screen have no apparent *S. cerevisiae* homolog**

**but have an apparent homolog in humans.**

Listed here are the 61 candidates identified in our screen with their corresponding homolog(s) in *S. cerevisiae* and in humans. The red asterisks indicate the 17 genes that have no homolog in *S. cerevisiae* but do in humans. Of those 17 genes, the green asterisks indicate those genes that are known splicing factors. The blue asterisks indicate those genes that were predicted to be involved in splicing based on homology and have now been confirmed in this study.