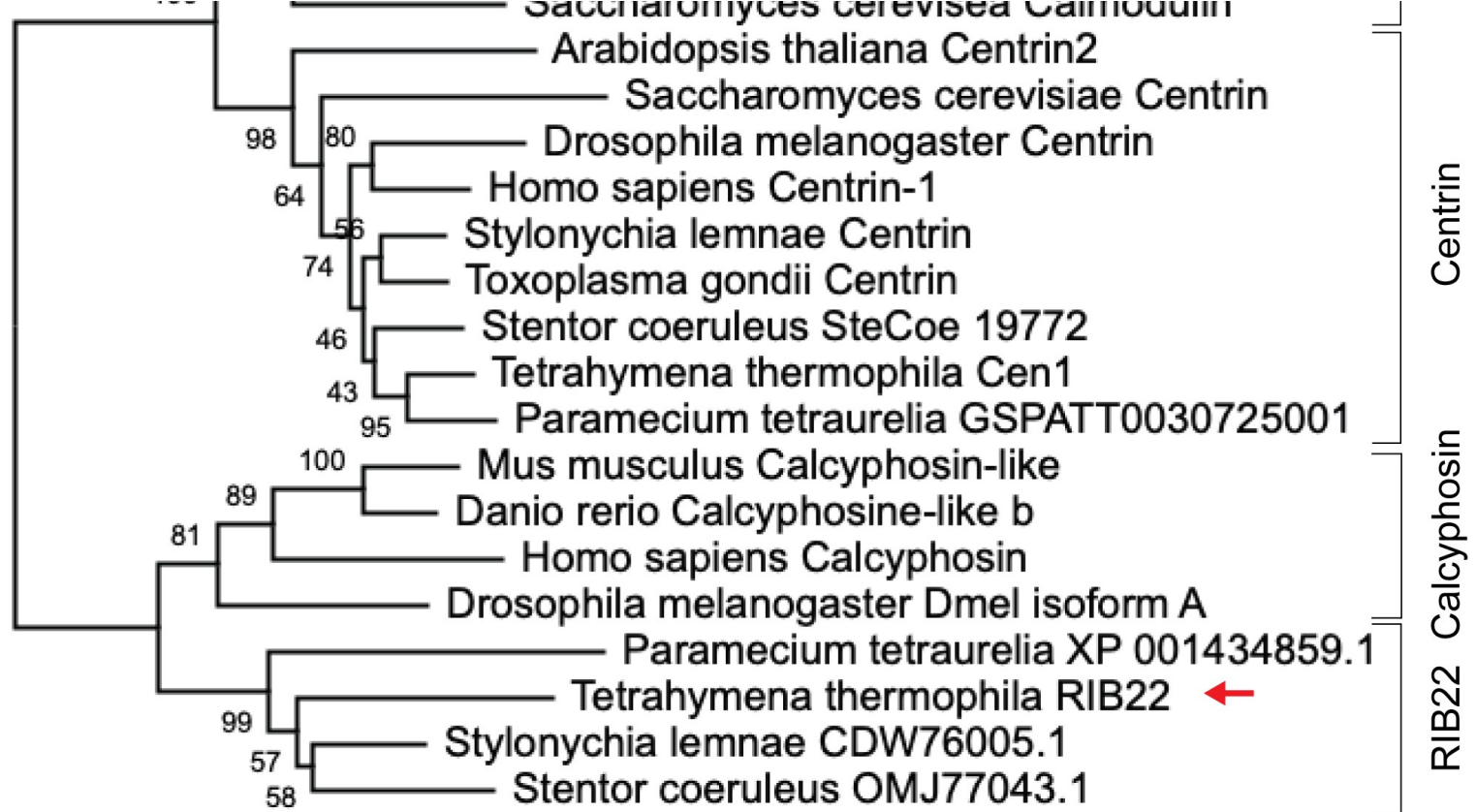


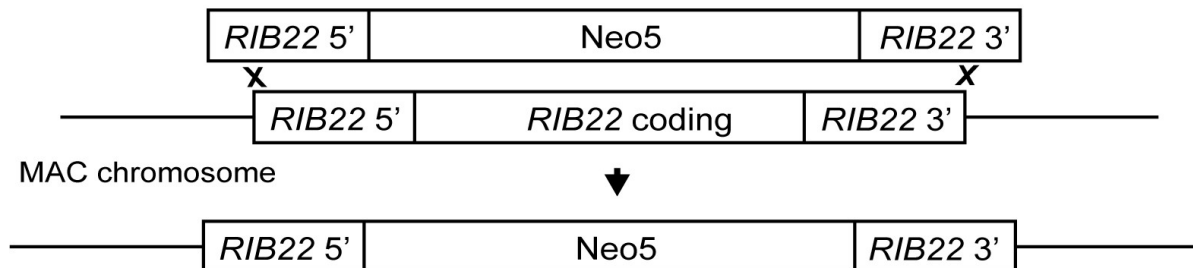
Supplemental Materials

Molecular Biology of the Cell

Howard-Till *et al.*



B *RIB22* KO construct



GFP-*RIB22* construct



RIB72A-ΔEF strain



RIB72A Rescue				N88		ΔEF		RIB22 KO	
MIP	UniprotID	# Peptide matches	Abundance	# Peptide matches	Abundance	# Peptide matches	Abundance	# Peptide matches	Abundance
FAM166A	Q238X3	37	284222621	22	89422936.3	32	109369935	41	522697112
FAM166B	Q235M9	22	152932289	0	0	1	1570544.5	17	242808570
FAM166C	Q22B75	17	83341640.1	12	40787480.3	16	40923981.8	18	171041405
FAP106A	I7M279	32	113219579	27	91747924.2	17	30782829.2	38	423800856
FAP106B	I7LU20	14	23288152.7	9	15257544.1	2	1748291.63	18	101373586
FAP107	Q237T1	14	56330696.4	13	40485884.9	5	9337640.25	9	35451217
FAP112A	Q23A15	61	320987245	56	422115907	42	125512837	56	504990031
FAP112B	I7MEK6	51	144124111	49	135402534	29	39310311.6	55	347447431
FAP115	Q23KF9	120	897739619	86	402237379	89	338909940	108	912690994
FAP127	I7LV70	23	68299955.3	17	56053368.1	14	19834920.2	32	276888832
FAP141	A4VCU8	1	519383.281	0	0	0	0	3	24715548.8
FAP143	A4VD56	25	103153369	23	76754341.5	19	39974370.6	37	240441166
FAP161A	Q22WJ6	33	225978176	27	154408782	26	92876073.3	44	259894728
FAP161B	I7M8Z8	38	246060929	34	176823847	34	100263369	37	288503996
FAP182A	Q24BV4	7	13904222.4	6	10905816.8	5	5516296.09	16	149702693
FAP182B	I7MLW3	10	24820079.7	10	27663982.1	8	10490979.9	18	97317124.8
FAP20	Q22NU3	20	221023501	18	129893702	16	81635706.6	36	626719497
FAP210	Q23EX8	32	97370525	34	121122483	28	45214139.3	42	232971664
FAP21A	I7MK20	14	27742567.7	6	13281843.2	4	4599516.09	19	40184546.6
FAP21B	I7MLS4	44	163956192	34	101084913	21	33298690.1	39	177197573
FAP45	W7XCX2	49	153081263	48	186928492	23	39158385.2	45	474511904
FAP52A	Q22ZH2	68	587542044	54	412577334	39	130260317	64	599721828
FAP52B	I7MJ23	14	20076348.8	12	16226689.6	8	5231285.63	18	35497604.7
FAP52C	Q24C92	8	11409848.6	6	9398866.94	5	4480081.25	17	25871347.9
FAP52D	I7MLQ3	2	0	13	22389296.9	5	2150324.31	7	6662678.25
FAP53	Q23YQ8	45	81747121.9	41	98130288	25	29245976.9	46	373634688
FAP67	W7XGD1	31	334994136	26	244049259	25	151515944	35	406133990
FAP77A	Q22WR6	20	82827631.4	17	83789992.2	17	35252490.2	24	252273052
FAP77B	Q239Q2	8	13215489.9	5	2551542.44	3	1174764.03	13	37481498.1
IJ34	I7M9T0	31	275016455	32	194330128	18	71468000.5	37	312182415

Nebulin	Q231B6	50	167387803	39	113548045	36	65607795.5	47	169683076
OJ2	Q236L2	17	137389869	26	192397751	19	82628869.7	27	277351551
PACRGA	I7MLV6	32	221182358	37	195911128	32	89086518.5	40	456485108
PACRGB	I7M317	32	175584874	29	131952802	26	80529424.6	48	532858079
PACRGC	I7M312	0	0	0	0	0	0	5	4300140.89
RIB22	I7LT67	15	62276648.6	0	0	1	342463.688	0	0
RIB26	Q232I6	13	46212699.2	14	29940352	10	16633223.7	13	39461700.2
RIB27A	I7LUL4	33	238103146	21	84863532.2	22	65595363.1	30	393813590
RIB27B	Q22CT6	18	58770276	1	0	13	17820930.3	22	89294160.5
RIB35	I7ME81	14	47000007.5	8	21028194.3	8	17300435.5	15	164064974
RIB38	Q23JL9	30	109179191	28	84787715.9	14	29378499.9	45	167875925
RIB43A_L	Q240R7	14	47835883.9	13	32204284.1	6	11355606.8	29	119230682
RIB43A_S	A4VDZ5	9	18550152.6	4	10230105	7	10616036.3	15	236719897
RIB57	I7ME23	50	414520285	37	337444064	35	211945286	57	539129563
RIB72A	I7M0S7	107	1579683503	15	149393710	76	817007625	74	861562157
RIB72B	I7MCU1	68	783741937	63	702947500	51	253908936	63	745915196
SB1	Q231B2	12	36219260.9	11	28408027.5	9	15488159.1	18	122034227
STPG1A	Q24GM1	16	47578688.4	15	42569957.9	14	25900520	14	97435932.3
STPG1B	I7MF67	13	21440389.8	8	13201707.9	7	8983352.56	4	14044710.1
STPG2	I7M2G0	25	227800507	22	181691818	19	101795439	25	252660922
α -tubulin	I7M9N6	688	2.6262E+10	447	2.2437E+10	313	1.1934E+10	507	2.4055E+10
β -tubulin	Q24B92	704	3.4835E+10	471	3.2736E+10	272	1.724E+10	536	3.0043E+10