

Supplemental Materials

Molecular Biology of the Cell

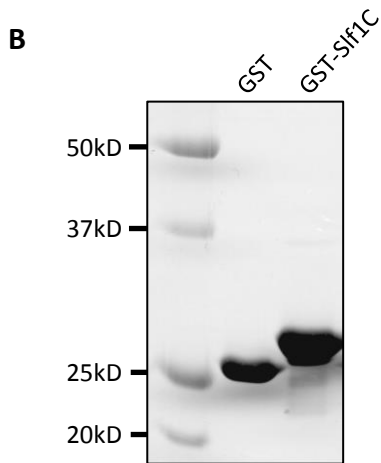
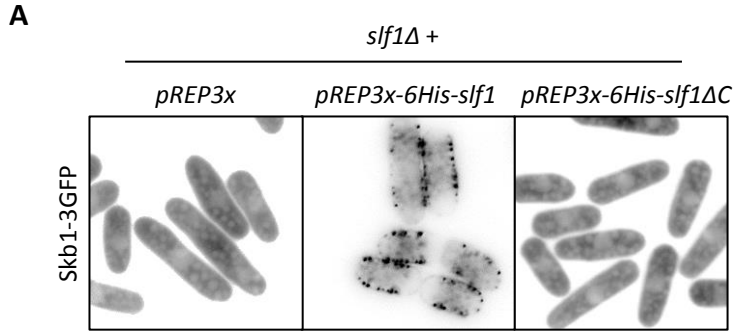
Deng et al.

Protein	#Uni_Peptide	Coverage %
Skb1	21	41.71
SPAC821.03c	3	12.58
Tdh1	2	12.2
SPAC17H9.04c	2	5.63
Tif33	2	4.36
Trp1	2	3.95
Cdc48	2	3.75
Rpa2	3	3.34
Tif32	2	3.33
Nup97	2	3.29
SPAC18G6.05c	3	1.39

Supplemental Figure S1. List of proteins that specifically co-purified with Skb1-3HA but not with untagged control.

Spombe.S1f1	ESSIQNPIESSYFVLDLSAVGNSQLHSGRSLTYGDRKANIDTRSGGGRRFWSNLNDS..GNSFGAVPASSMNLSE...YGPFKSITISKDKGA	88
Scryophilus	MNATVQAYNKPHFVGGSSNGISQKLRHAQSLVR..RQPAKVESDNGHRRRWSHYDDE..QNLGNAYHGEGDMEP...PKSGYSTQQLASFNKGR	89
Soctosporus	MNEIYHDKYNTQAMSSSTRIPQRLRHAQSLFR..RRPTTVEPDSNHRRWSHYDNL..PNGVHSSYDANTVNPNASIKSGYSTQQLASLNRDR	92
Sjaponicus	MQTYQTEMVRLNDYIGGMQYSISAFTRKRSVSOQPKP..ESASQDEYELDRRBSFTWNLDEESTLNRRSRRTSATRSQTRSLRHQIELKELTLPSLD	98
Spombe.S1f1	MSRSSRYVSSLEKATLPLSLDGRRLSRNNAANHASHHRMPDSSASRYRIGEYESSSRVFEOKSLRRYYSRTAQRIDVRRPARRSSRYSKTSLDLPSPDGG	188
Scryophilus	SARRNLTVAETELKATLPLSLDERRLSRRSHQDVGVPVQAKLSE...NRITSGNTNPLVFEOKSLRRYYSNRATAQRLEFRRSGGPPSSRFESRASEINTTDDA	186
Soctosporus	STRNNTLFAETELKATLPLSLDEHRLSRSSPQDFGIPVDGNRES...YRITSRNSNPLVFEOKSLRRYYSNRATAQRIDNGRSGGPPSSRFESRSTTSGVSAVNA	189
Sjaponicus	RHRRERQRRVTVSSGSEETFEIPLKSRRRHGSRNRDRDSSFARNPNRISFVDNDQVLEVDAAEFISDVGDALHEDSRFSDEPEGGTSSLNDASYPEVYTG	198
Spombe.S1f1	RFVDDSLTPHTDINRFRVSDDDDSGVGSSSPDQMSRNNLNLINRRTTSTSSKPYAKEQQLISSMAPVQKNSSTAREQYVAPALSFAEPVET	287
Scryophilus	RFADENDVPTNNDVNNRRTDPPFESGR.TSFEFETSEMAGRRNSINLQARMKPMDSK.LVSKNGQPMRVSQITPESSPQNVLGQEANPLTARFSGN	283
Soctosporus	RFADENDDIATPKNSRNFADSDPEFGR.TSFEFERSETARKNSLNFQDMKPIGTR.MASKNGQSMRASELTERGSLSTAPESSEANSPPLAFTVSGS	287
Sjaponicus	TTLPNATGPGILAKTRRSLDAVSRLEPDPYLTNDIKRTRSVGNVSTPRLQEPESYRDALSKQPQEQQTKGKQTSKVCAAVHDGFSLKKHILNALRK	298
Spombe.S1f1	QHNHMPKTPPLRGSTVMNGSLIGPYSSSSNATGMVYSGKSHSSSTRFHFSSVSSQFAEEFVGSSSHGRQ.....QDSYIAFDSDSESYRRVR	379
Scryophilus	STSYASNEYAFEDQPTAAILSES.KYANAPAFEQNIQYENATMDRRRFFETVDF..GGNMASGVHTN.....ADDPYMDDSDSESYRRVR	374
Soctosporus	SFGYLFNDHILETQSRSGVLSER.HSNIPAWQPDTAAPHVPTONRQPLETDLNS..SDEMGGSDPYMD.....VREFFVDDSDSESYRRVR	374
Sjaponicus	RSMEMENPREELQLGSSPVRSTAHQRNSSQFENASFRVYVPEEPEEMPVVKNVPDNDHWQRVYRNSLLINPDREMEPRRAIVAADDSDSESYRRVR	398
Spombe.S1f1	QOYLSKFRRLSDKNRYSIFSEFPG..GDFSSQSNVRRSNT..VRPTSEFYEKLHIKRN.DNPSFCALPYETITQERKPV..VKDSIKTVKPEKFKKSE	472
Scryophilus	QOYLSKFRVVKPTDRYSILSNTAS..GDFPRASQANLNQNN..CRPFSHFYEKLHIKNNNNNSFCALPYETITPAKRPE...MPTQPGQATPQKPKRGL	462
Soctosporus	QOYLQTEF.RARSNRYSVGSNTAS..GDFPRASQANLNHN...CRPFSHFYEKLHIKNNPKNNNSFCALPYETITAPATRE...LVVTHPEQASPKKNSSE	463
Sjaponicus	QOYLSRANTVHSFRLSYFISVGVGTARFSSNRTRGTRDARNSLRFSQMVYEKLHIKRN.SNPSLITAMPYQSVATPNPVTQKQRLSASQKSGMERKRRNS	497
Spombe.S1f1	FKKLMKLSHLEFD	485
Scryophilus	FKRLFQKVSRIEFD	474
Soctosporus	LRKFAKKERIEFD	475
Sjaponicus	IRRFFKLRLEK	510

Supplemental Figure S2. Protein sequence alignment for Slf1 and potential homologs in fission yeast species. Slf1 proteins are only found in fission yeasts. Residues highlighted in black are identical, and residues in gray are 75% identical (*i.e.* conserved in 3 out of 4 species). C-terminal lysine-rich region (aa. 451-485) of Slf1 is underlined with lysine residues marked by asterisks.



Supplemental Figure S3. (A) Localization of Skb1-3GFP in *slf1Δ* expressing indicated constructs. The proteins were expressed at 32°C for 18 hours. Images are inverted middle focal planes. Note the Slf1ΔC cannot anchor Skb1-3GFP to plasma membrane. **(B)** Coomassie staining of purified recombinant proteins used in liposome pelleting assays. Slf1C is the amino acid 451-485.