

**Supplementary Information Table 1. Proteome of the mammalian midbody.**

oth2	CALCYCLIN BINDING PROTEIN	7656952	Other	x x x x x x x
oth3	CALMODULIN	1710819	Other	
oth4	CDC16	1362769	Other	x x x x x x x
oth5	CDC20	4323528	Other	x x x x x x x
oth6	CDK INHIBITOR 1B	4757962	Other	x
oth7	CULLIN 1	2493906	Other	x x x x x x x
oth8	ENHANCER OF RUDIMENTARY	4758302	Other	x x x x x x x
oth9	G PROTEIN BETA2	121009	Other	x x x x x x x
oth10	GAS-1/GROWTH ARREST SPECIFIC-1	6679941	Other	x
oth11	GTP-BINDING REGULATORY PROTEIN GI ALPHA-2 CHAIN	4218034	Other	x x x x x x x
oth12	LAMIN A/C	125962	Other	x
oth13	LAMIN B1	125953	Other	x
oth14	MAGO-NASHI PROTEIN	6754616	Other	x x x x x x x
oth15	MEK BINDING PARTNER 1	9910452	Other	x x x x x x x
oth16	NEDD4 UBIQUITIN LIGASE	2144012	Other	x x
oth17	NOGGIN	7110675	Other	x
oth18	NOVEL/AAC52863	1644455	Other	x
oth19	NOVEL/CGI-49 PROTEIN	4929567	Other	x x x x x x x
oth20	NOVEL/CGI-94 PROTEIN	18539291	Other	x x x x x x x
oth21	NOVEL/KIAA0102	7661908	Other	x x x x x x
oth22	NOVEL/KIAA0377	7662084	Other	x x x x x x x
oth23	P120 CATEIN ISOFORM 4B	3152867	Other	x x x x x x x
oth24	PAR INTERACTIN ASSOCIATED G PROTEIN	7514041	Other	x x x x x x
oth25	TORSIN A	10798614	Other	x
sec1	ACZONIN/PICCOLO HOMOLOG	15139362	Secretory & Membrane Associated	
sec2	ADP-RIBOSYLATION FACTOR-LIKE 1	4502227	Secretory & Membrane Associated	x x x x x x x
sec3	ANNEXIN V	999937	Secretory & Membrane Associated	x x x x x x x
sec4	ANNEXIN VI	113962	Secretory & Membrane Associated	x x x x x x x
sec5	ANNEXIN VII	4502111	Secretory & Membrane Associated	x x x x x x x
sec6	ATAXIN 2 RELATED PROTEIN	6005699	Secretory & Membrane Associated	x
sec7	BIP	6470150	Secretory & Membrane Associated	x x x x x x x
sec8	CALCYCLIN	116509	Secretory & Membrane Associated	
sec9	CALM PROTEIN/CLATHRIN ASSEMBLY LYMPHOIDMYELOID LEUKEMIA GENE	6005733	Secretory & Membrane Associated	x x x x x x x
sec10	CALNEXIN	6671664	Secretory & Membrane Associated	x x x x x x x
sec11	CALPACTIN 1 / ANNEXIN II ASSOCIATED LIGHT CHAIN	6677833	Secretory & Membrane Associated	
sec12	CALRETICULIN	253851	Secretory & Membrane Associated	x x x x x x x
sec13	CLATHRIN COAT ASSEMBLY PROTEIN AP50	113332	Secretory & Membrane Associated	x x x x x x x
sec14	CLATHRIN HEAVY CHAIN	1705915	Secretory & Membrane Associated	x x x x x x x
sec15	CONTACTIN ASSOCIATED 1/SIDEKICK HOMOLOG	6680954	Secretory & Membrane Associated	x
sec16	COP1 COATOMER COMPLEX, ALPHA SUBUNIT	2494888	Secretory & Membrane Associated	x x x x x x x
sec17	COP1 COATOMER COMPLEX, BETA SUBUNIT	8571380	Secretory & Membrane Associated	x x x x x x x
sec18	COPINE I	10719953	Secretory & Membrane Associated	x x x x x x x
sec19	DYNAMIN 2	1706539	Secretory & Membrane Associated	x x x x x x x
sec20	DYNAMIN-LIKE I	16758468	Secretory & Membrane Associated	x x x x x x x
sec21	DYNAMIN-LIKE PROTEIN DLP1	4868358	Secretory & Membrane Associated	x x x x x x x
sec22	ECM29P-LIKE	2224677	Secretory & Membrane Associated	x x x x x x
sec23	EH-DOMAIN CONTAINING 1/EHD-1	7106303	Secretory & Membrane Associated	x x x x x x x
sec24	ENDOPHILIN B1/SH3GLB2	9910352	Secretory & Membrane Associated	x
sec25	ENDOPLASMIN PRECURSOR/GRP94	108003	Secretory & Membrane Associated	x x x x x x x
sec26	FLOTILLIN 1	6679809	Secretory & Membrane Associated	x
sec27	GLUT1 TRANSPORTER C-TERMINAL BINDING PROTEIN	3808216	Secretory & Membrane Associated	x
sec28	GLUT4 VESICLE PROTEIN	4200444	Secretory & Membrane Associated	x
sec29	GMX33/GOLPH3	8922589	Secretory & Membrane Associated	x x
sec30	GOLGI STACKING PROTEIN HOMOLOG 55	5901572	Secretory & Membrane Associated	x x x x x x x
sec31	GUANINE NUCLEOTIDE BINDING PROTEIN, ALPHA 14/G ALPHA 14	6680035	Secretory & Membrane Associated	x x x x x x x
sec32	HUNTINGTIN-ASSOCIATED PROTEIN INTERACTIN ASSOCIATED GPROTEIN HIP	4504335	Secretory & Membrane Associated	x
sec33	MYOFERLIN/FER-1 LIKE PROTEIN	10834587	Secretory & Membrane Associated	x
sec34	MYOSIN VI	6678992	Secretory & Membrane Associated	x x x x x x x
sec35	NIPSNAP1	7512727	Secretory & Membrane Associated	x
sec36	NSF	6679140	Secretory & Membrane Associated	x x x x x x x
sec37	PHOSPHOLIPASE C BETA 2	3688530	Secretory & Membrane Associated	x x x x x x x
sec38	RAB GDI ALPHA	1707886	Secretory & Membrane Associated	x x x x x x x
sec39	RAB22	9963781	Secretory & Membrane Associated	x x x x x x x
sec40	RAB6-KIFL	6225915	Secretory & Membrane Associated	x x
sec41	RAB7	4105819	Secretory & Membrane Associated	x x x x x x x
sec42	RACK 1	1083582	Secretory & Membrane Associated	x x x x x x x
sec43	SEC13	2498892	Secretory & Membrane Associated	x x x x x x x
sec44	SEC23	5454044	Secretory & Membrane Associated	x x x x x x x
sec45	SEC31	7715039	Secretory & Membrane Associated	x x x x x x x
sec46	SEC3P-LIKE	8922746	Secretory & Membrane Associated	x x x x x x
sec47	SORTING NEXIN 4	10720282	Secretory & Membrane Associated	x x x x x x x
sec48	STAUFEN	6755674	Secretory & Membrane Associated	x
sec49	TMP21 PRECURSOR/ERV25P	7513284	Secretory & Membrane Associated	x x x x x x x
sec50	TORSIN B	10798612	Secretory & Membrane Associated	x
sec51	VACULAR SORTING VPS35P	10435637	Secretory & Membrane Associated	x x x x x x x
sec52	VAMP-ASSOCIATED PROTEIN A	4240462	Secretory & Membrane Associated	x x x x x x x
sec53	PATCHED	6679519	Secretory & Membrane Associated	x