

Supplementary Information Table S2. Functional domain composition of the mammalian midbody proteins.

Short name	Mammalian functional domains					
act1	Actin (PF00022.9)					
act2	Spectrin (PF00435.11)	SH3_1 (PF00018.18)	efhand (PF00036.22)	efhand_Ca_insen (PF08726.1)	SH3_2 (PF07653.7)	
act3	Actin (PF00022.9)					
act4	WD40 (PF00400.22)					
act5	Actin (PF00022.9)					
act6	G-patch (PF01585.13)	TFP11 (PF08697.1)				
act7	Cofilin_ADF (PF00241.10)					
act8	Myosin_head (PF00063.11)	IQ (PF00612.17)	Myosin_TH1 (PF06017.4)	SH3_1 (PF00018.18)		
act9	Myosin_N (PF02736.9)	Myosin_head (PF00063.11)	IQ (PF00612.17)	Myosin_tail_1 (PF01576.9)	Filament (PF00038.11)	
act10	WW (PF00397.16)	IQ (PF00612.17)	RasGAP (PF00616.9)	RasGAP_C (PF03836.5)		
act11	efhand (PF00036.22)					
act12	F_actin_cap_B (PF01115.8)					
act13	LIM (PF00412.12)					
act14	Filament_head (PF04732.4)	Filament (PF00038.11)				
act15	HEAT (PF02985.12)	Arm (PF00514.13)				
act16	CH (PF00307.21)	Spectrin (PF00435.11)	efhand (PF00036.22)	GAS2 (PF02187.8)	Tropomyosin (PF00261.10)	DUF1690 (PF07956.2)
act17	Band_41 (PF00373.8)	ERM (PF00769.9)				
act18	Cofilin_ADF (PF00241.10)					
act19	P21-Arc (PF04062.5)					
act20	Band_41 (PF00373.8)	ERM (PF00769.9)				
act21	Band_41 (PF00373.8)	Talin_middle (PF09141.1)	VBS (PF08913.1)	I_LWEQ (PF01608.8)		
act22	Septin (PF00735.9)					
act23	efhand (PF00036.22)	CH (PF00307.21)				
act24	BRCT (PF00533.16)	RhoGEF (PF00621.11)	PH (PF00169.19)			
act25	Band_41 (PF00373.8)	FA (PF08736.1)	SAB (PF04382.3)	4_1_CTD (PF05902.3)		
act26	CH (PF00307.21)	Filamin (PF00630.9)				
act27	CH (PF00307.21)	Spectrin (PF00435.11)	PH (PF00169.19)			
act28	CH (PF00307.21)	Spectrin (PF00435.11)	efhand (PF00036.22)	efhand_Ca_insen (PF08726.1)		
act29	P34-Arc (PF04045.5)					
act30	CH (PF00307.21)	Calponin (PF00402.8)				
act31	Drf_GBD (PF06371.4)	Drf_FH3 (PF06367.7)	FH2 (PF02181.13)			
act32	Ras (PF00071.12)	Arf (PF00025.11)				
act34	Band_41 (PF00373.8)	ERM (PF00769.9)				
act35	Vinculin (PF01044.9)	MCPsignal (PF00015.11)	ArgJ (PF01960.9)			
act36	DUF1899 (PF08953.1)	WD40 (PF00400.22)	DUF1900 (PF08954.1)			
act37	Septin (PF00735.9)	MMR_HSR1 (PF01926.13)				
act38	Profilin (PF00235.9)					
act39	TBPIP (PF07106.3)					
act40	Extensin_2 (PF04554.4)	CH (PF00307.21)				
act41	PDZ (PF00595.14)	SH3_2 (PF07653.7)				
act42	efhand (PF00036.22)					
act43	PDZ (PF00595.14)	LIM (PF00412.12)				
act44	Actin (PF00022.9)					
act45	BAR (PF03114.8)	RhoGAP (PF00620.17)				
act46	BTB (PF00651.21)	BACK (PF07707.5)	Kelch_1 (PF01344.15)	Kelch_2 (PF07646.5)		
kin1	Pkinase (PF00069.15)					
kin2	Pkinase (PF00069.15)					
kin3	CK_II_beta (PF01214.9)					
kin4	Pkinase (PF00069.15)					
kin5	CKS (PF01111.9)					
kin7	Pkinase (PF00069.15)	Pkinase_C (PF00433.14)	ATG16 (PF08614.1)	C1_1 (PF00130.12)	PH (PF00169.19)	CNH (PF00780.12)
kin8	No domain detected above threshold					
kin9	Pkinase (PF00069.15)	HEAT (PF02985.12)				
kin10	Nucleoplasmin (PF03066.5)					
kin11	Pkinase (PF00069.15)	POLO_box (PF00659.9)				
kin12	Metallophos (PF00149.18)					
kin13	HEAT (PF02985.12)					
kin14	Metallophos (PF00149.18)					
kin15	LRR_1 (PF00560.23)					
kin16	LRR_1 (PF00560.23)					

kin17	Pkinase (PF00069.15)				
kin18	Pkinase (PF00069.15)	UVR (PF02151.9)	Pkinase_Tyr (PF07714.7)		
mic1	Tubulin (PF00091.15)	Tubulin_C (PF03953.7)			
mic2	Tubulin (PF00091.15)	Tubulin_C (PF03953.7)			
mic3	Kinesin (PF00225.13)	DHC_N1 (PF08385.2)			
mic4	CAP_GLY (PF01302.15)	bZIP_1 (PF00170.11)	Myosin_tail_1 (PF01576.9)		
mic5	CAP_GLY (PF01302.15)				
mic6	Dynamitin (PF04912.4)	OKR_DC_1_C (PF03711.5)			
mic7	DHC_N1 (PF08385.2)	DHC_N2 (PF08393.3)	AAA_5 (PF07728.4)	Dynein_heavy (PF03028.6)	
mic8	CH (PF00307.21)	EB1 (PF08393.3)			
mic9	Spc97_Spc98 (PF04130.4)				
mic10	Kinesin (PF00225.13)	ERM (PF00769.9)			
mic11	Kinesin (PF00225.13)				
mic12	Kinesin (PF00225.13)				
mic13	Rab5-bind (PF09311.1)	TPR_2 (PF07719.7)	TPR_1 (PF00515.18)		
mic14	MAP1B_neuraxin (PF00414.8)				
mic15	Kinesin (PF00225.13)				
mic16	Kinesin (PF00225.13)				
mic17	HEAT (PF02985.12)				
mic18	HEAT (PF02985.12)				
oth1	WD40 (PF00400.22)				
oth2	Siah-Interact_N (PF09032.1)	CS (PF04969.6)	SGS (PF05002.5)		
oth3	S_100 (PF01023.9)				
oth4	TPR_1 (PF00515.18)				
oth5	WD40 (PF00400.22)				
oth6	CDI (PF02234.9)				
oth7	Cullin (PF00888.12)				
oth8	ER (PF01133.8)				
oth9	WD40 (PF00400.22)				
oth10	GDNF (PF02351.6)				
oth11	G-alpha (PF00503.10)				
oth12	Filament (PF00038.11)				
oth13	Filament (PF00038.11)				
oth14	Mago_nashi (PF02792.5)				
oth15	MAPKK1_Int (PF08923.1)				
oth16	C2 (PF00168.20)	WW (PF00397.16)	HECT (PF00632.15)		
oth17	Noggin (PF05806.3)				
oth18	WH1 (PF00568.13)	VASP_tetra (PF08776.1)			
oth19	Saccharop_dh (PF03435.8)				
oth20	Utp11 (PF03998.4)				
oth21	SPC25 (PF06703.2)				
oth22	Acid_phosphat_A (PF00328.12)				
oth23	Arm (PF00514.13)				
oth24	DNA_pol_phi (PF04931.4)				
oth25	Torsin (PF06309.2)				
sec1	zf-piccolo (PF05715.3)	Extensin_2 (PF04554.4)	PDZ (PF00595.14)	C2 (PF00168.20)	
sec2	Arf (PF00025.11)				
sec3	Annexin (PF00191.10)				
sec4	Annexin (PF00191.10)				
sec5	Annexin (PF00191.10)				
sec6	Ataxin-2_N (PF06741.3)	PAM2 (PF07145.5)			
sec7	HSP70 (PF00012.10)				
sec8	S_100 (PF01023.9)	efhand (PF00036.22)			
sec9	ANTH (PF07651.6)				
sec1012	Calreticulin (PF00262.8)				
sec11	S_100 (PF01023.9)				
sec13	Clat_adaptor_s (PF01217.10)	Adap_comp_sub (PF00928.11)			
sec14	Clathrin_propel (PF01394.10)	Clathrin (PF09268.1)	Clathrin (PF00637.10)		
sec15	ig (PF00047.15)	I (PF07679.6)	fn3 (PF00041.11)	V-set (PF07686.7)	
sec16	WD40 (PF00400.22)	Coatomer_WDAD (PF04053.4)	COPI_C (PF06957.2)		
sec17	Adaptin_N (PF01602.10)	Coatamer_beta_C (PF07718.3)			
sec18	C2 (PF00168.20)	Copine (PF07002.6)			

sec192021	Dynamin_N (PF00350.13)	Dynamin_M (PF01031.10)	GED (PF02212.8)		
sec22	HEAT (PF02985.12)				
sec23	Dynamin_N (PF00350.13)	efhand (PF00036.22)			
sec24	BAR (PF03114.8)	SH3_1 (PF00018.18)	IMD (PF08397.1)	SH3_2 (PF07653.7)	
sec25	HATPase_c (PF02518.16)	HSP90 (PF00183.9)			
sec26	Band_7 (PF01145.15)	Flotillin (PF03149.6)			
sec27	PDZ (PF00595.14)				
sec28	C2 (PF00168.20)				
sec29	GPP34 (PF05719.2)				
sec30	GRASP55_65 (PF04495.4)				
sec31	G-alpha (PF00503.10)	Arf (PF00025.11)			
sec32	Spectrin (PF00435.11)	RhoGEF (PF00621.11)	PH (PF00169.19)		
sec33	C2 (PF00168.20)	Fer1 (PF08151.2)	FerA (PF08165.2)	FerB (PF08150.2)	
sec34	Myosin_head (PF00063.11)	IQ (PF00612.17)			
sec35	NIPSNAP (PF07978.3)				
sec36	CDC48_N (PF02359.8)	CDC48_2 (PF02933.7)	AAA (PF00004.19)		
sec37	efhand_like (PF09279.1)	PI (PF00388.9)	PI-PLC-Y (PF00387.9)	C2 (PF00168.20)	PLC-beta_C (PF08703.1)
sec38	GDI (PF00996.9)				
sec39	Ras (PF00071.12)				
sec40	Kinesin (PF00225.13)				
sec41	Ras (PF00071.12)				
sec42	WD40 (PF00400.22)				
sec43	WD40 (PF00400.22)				
sec44	zf-Sec23_Sec24 (PF04810.5)	Sec23_trunk (PF04811.5)	Sec23_BS (PF08033.2)	Sec23_helical (PF04815.5)	Gelsolin (PF00626.12)
sec45	WD40 (PF00400.22)	Extensin_2 (PF04554.4)			
sec46	Vps52 (PF04129.3)				
sec47	PX (PF00787.14)	Vps5 (PF09325.1)			
sec48	dsrm (PF00035.15)				
sec49	<i>No domain detected above threshold</i>				
sec50	Torsin (PF06309.2)				
sec51	Vps35 (PF03635.7)				
sec52	Motile_Sperm (PF00635.16)				
sec53	Patched (PF02460.9)				