

GiardiaDB	annotation	MW (kDa)	PFAM	localization	EM	body	DM	LC	OZ	VG	DB	MB	FL	cyFL	bb	citation	other localization
GL50803_5188	ankyrin repeat protein	57	ankyrin	C-term GFP		disc	DM		OZ	VG		MB				Figure S3	none
GL50803_16343	median body protein	101	none	C-term GFP	MT/OZ	disc	DM		OZ	VG		MB				Figure S3	none
GL50803_5374	tubulin-specific chaperone B	26	CAP-GLY	C-term GFP		disc	DM		OZ	VG						Figure S3	none
GL50803_24537	hypothetical protein	59	none	C-term GFP		disc	DM		OZ		DB	MB		cyFL		Figure S4	cytoplasmic caudal axoneme
GL50803_137684	ankyrin repeat protein	146	ankyrin	C-term GFP		disc	DM		OZ			MB		cyFL		Figure S3	all cytoplasmic axonemes
GL50803_11683	alpha3-giardin	33	annexin	AU1 tag		disc	DM			VG						Weiland et al. (2005)	none
GL50803_3256	epsin	134	ENTH	HA tag		disc	DM									Ebneter et al. (2014)	none
GL50803_4852	hypothetical protein	49	none	HA tag		disc	DM									Lauwaet et al. (2011)	none
GL50803_8726	hypothetical protein	106	none	C-term GFP		disc			OZ	VG		MB				Figure S1	none
GL50803_86815	hypothetical protein	134	none	C-term GFP		disc			OZ	VG		MB				Figure S1	median body, cytoplasm
GL50803_13590	ankyrin repeat protein	72	ankyrin	C-term GFP		disc			OZ	VG				cyFL		Figure S1	cytoplasmic anterior axonemes
GL50803_4812	beta giardin	31	SF-assemblin	antibody	MR	disc			OZ	VG						Baker et al. (1988)	none
GL50803_103807	ankyrin repeat protein	103	ankyrin	C-term GFP		disc			OZ	VG						Figure S1	none
GL50803_112557	ankyrin repeat protein	89	ankyrin	C-term GFP		disc			OZ	VG						Figure S1	none
GL50803_7268	ankyrin repeat protein	126	ankyrin	C-term GFP		disc			OZ	VG						Figure S1	none
GL50803_4977	Nek kinase GK282	42	NEK	C-term GFP		disc			OZ	VG						Figure S1	none
GL50803_4239	hypothetical protein	11	none	C-term GFP		disc			OZ	VG						Figure S1	cytoplasm
GL50803_15918	hypothetical protein	25	none	C-term GFP		disc			OZ	VG						Figure S1	none
GL50803_4410	SALP-1	28	SF assemblin	C-term GFP	MR	disc			OZ	VG						Figure S1	none
GL50803_86676	delta-giardin	34	SF-assemblin	C-term GFP	MR	disc			OZ	VG						Figure S1	none
GL50803_17230	gamma giardin	36	none	antibody		disc			OZ	VG						Nohria et al. (1992)	none
GL50803_5883	hypothetical protein	63	none	C-term GFP		disc			OZ		DB	MB				Figure S4	none
GL50803_40016	ankyrin repeat protein	72	ankyrin	C-term GFP		disc			OZ			MB				Figure S1	none
GL50803_9515	ankyrin repeat protein	150	ankyrin	C-term GFP		disc			OZ			MB				Figure S1	none
GL50803_4912	Nek kinase GK265	33	NEK	C-term GFP		disc			OZ			MB				Figure S1	none
GL50803_3934	hypothetical protein	65	none	C-term GFP		disc			OZ			MB				Figure S1	none
GL50803_17053	ankyrin repeat protein	14	ankyrin	C-term GFP		disc			OZ							Figure S1	none
GL50803_13766	ankyrin repeat protein	93	ankyrin	C-term GFP		disc			OZ							Figure S1	none
GL50803_14859	ankyrin repeat protein	103	ankyrin	C-term GFP		disc			OZ							Figure S1	none
GL50803_17551	ankyrin repeat protein	119	ankyrin	C-term GFP		disc			OZ							Figure S1	none
GL50803_10524	hypothetical protein	27	none	C-term GFP		disc			OZ							Figure S1	none
GL50803_14681	ankyrin repeat protein	56	ankyrin	C-term GFP		disc		LC		VG				cyFL	BB	Figure S4	all cytoplasmic axonemes, no nuclei
GL50803_7796	alpha2-giardin	34	annexin	C-term GFP		disc				VG				FL		House et al. (2011)	ventral flagella
GL50803_7797	alpha5-giardin	33	annexin	AU1 tag		disc				VG				FL		Weiland et al. (2005)	ventral flagella
GL50803_15101	alpha17-giardin	34	annexin	AU1 tag		disc				VG				FL		Weiland et al. (2005)	ventral flagella
GL50803_92498	Nek kinase GK270	99	NEK	AU1 tag		disc				VG				cyFL	BB	Davids et al. (2011)	anterior axonemes
GL50803_5010	Ser/Thr Phos PP2A	38	calcineurin-like phosphoesterase	antibody		disc				VG					BB	Lauwaet et al. (2007)	none
GL50803_7414	ankyrin repeat protein	41	ankyrin	C-term GFP		disc				VG						Figure S3	none
GL50803_2556	hypothetical protein	10	none	C-term GFP		disc						MB	FL	cyFL		Figure S1	all flagella
GL50803_10181	hypothetical protein	83	none	C-term GFP		disc								cyFL		Figure S1	all cytoplasmic axonemes
GL50803_16279	Nek kinase GK256	75	NEK	AU1 tag		disc									BB	Davids et al. (2011)	none
GL50803_5358	aurora kinase	34	kinase	antibody		disc										Davids et al. (2008)	none
GL50803_3760	ankyrin repeat protein	51	ankyrin	C-term GFP		disc										Figure S1	cytoplasm

GL50803_24321	Nek kinase GK261	32	NEK	C-term GFP	disc					Figure S1	none		
GL50803_16272	Nek kinase GK187	136	NEK, ankyrin	C-term GFP	DM	OZ	VG	MB		Figure S3	none		
GL50803_17412	hypothetical protein	80	none	C-term GFP	DM	OZ	VG	MB		Figure S3	none		
GL50803_12139	ankyrin repeat protein	76	ankyrin	C-term GFP	DM	OZ	VG			Figure S3	none		
GL50803_17563	ERK1 kinase	42	kinase	antibody	DM		VG			Ellis et al. (2003)	none		
GL50803_5489	Nek kinase GK271	61	NEK	C-term GFP	DM		VG			Figure S3	none		
GL50803_13981	Nek kinase GK185	123	NEK, ankyrin	C-term GFP	DM		VG			Figure S3	none		
GL50803_6751	hypothetical protein	113	none	C-term GFP	DM		VG			Figure S3	none		
GL50803_15499	hypothetical protein	49	none	C-term GFP	DM			DB		Figure S4	none		
GL50803_41512	DUF1126 domain	74	DUF1126	C-term GFP	DM			MB	FL	Figure S2	all flagella		
GL50803_6709	hypothetical protein	58	none	C-term GFP	DM			MB	FL	Figure S2	all flagella		
GL50803_16935	hypothetical protein	94	none	C-term GFP	DM			MB	FL	Figure S2	all flagella		
GL50803_9148	SHIPPO repeat family protein	22	SHIPPO-repeat	C-term GFP	DM			MB	FL	Figure S2	all flagella		
GL50803_7520	hypothetical protein	54	none	C-term GFP	DM			MB	cyFL	BB	Figure S2	caudal cytoplasmic axonemes	
GL50803_17097	ankyrin repeat protein	163	ankyrin	C-term GFP	DM			MB	cyFL	Figure S2	cytoplasmic anterior axonemes		
GL50803_103164	SHIPPO repeat family protein	44	SHIPPO-repeat	C-term GFP	DM			MB	cyFL	Figure S2	all cytoplasmic axonemes		
GL50803_5568	DUF866 domain protein	17	DUF866	C-term GFP	DM				cyFL	BB	Figure S2	caudal cytoplasmic axonemes	
GL50803_10893	Nek kinase GK193	35	NEK	C-term GFP	DM				cyFL	BB	Figure S2	all cytoplasmic axonemes, cytoplasm	
GL50803_11775	Nek kinase GK301	178	NEK, ankyrin	C-term GFP	DM				cyFL	BB	Figure S2	all cytoplasmic axonemes	
GL50803_102455	GiKIN6a	131	kinesin-6	C-term GFP	DM				cyFL	Figure S2	cytoplasmic posteriolateral axonemes		
GL50803_17096	ankyrin repeat protein	85	ankyrin	C-term GFP	DM					BB	Figure S2	none	
GL50803_16424	Mlf1IP domain protein	30	Mlf1IP	C-term GFP	DM					BB	Figure S2	none	
GL50803_15576	ankyrin repeat protein	82	ankyrin	C-term GFP	DM					Figure S2	bare area edge		
GL50803_24194	ankyrin repeat protein	86	ankyrin	C-term GFP	DM					Figure S2	none		
GL50803_14872	ankyrin repeat protein	137	ankyrin	C-term GFP	DM					Figure S2	none		
GL50803_103810	ankyrin repeat protein	206	ankyrin	C-term GFP	DM					Figure S2	bare area edge		
GL50803_14800	ankyrin repeat protein	44	ankyrin	C-term GFP	DM					Figure S2	marginal plates		
GL50803_8850	ankyrin repeat protein	83	ankyrin	C-term GFP	DM					Figure S2	none		
GL50803_10219	ankyrin repeat protein	159	ankyrin	C-term GFP	DM					Figure S2	no VG		
GL50803_6171	hypothetical protein	17	none	C-term GFP	DM					Figure S2	cytoplasm		
GL50803_17090	SAM domain protein	20	SAM	C-term GFP			OZ			cyFL	BB	Figure S3	none
GL50803_16263	conserved hypothetical protein	12	DIP13	C-term GFP			OZ			cyFL	Figure S3	cytoplasmic caudal axonemes	
GL50803_16843	ankyrin repeat protein	138	ankyrin	C-term GFP			OZ			Figure S3	none		
GL50803_11554	Nek kinase GK249	32	NEK	C-term GFP				VG		Figure S3	none		
GL50803_3957	Nek kinase GK212	82	NEK, ankyrin	C-term GFP				VG		Figure S3	none		
GL50803_33866	hypothetical protein	76	none	C-term GFP					DB	MB	cyFL	Figure S4	all cytoplasmic axonemes
GL50803_10232	hypothetical protein	74	none	C-term GFP					DB	MB	Figure S4	cytoplasm	
GL50803_13651	hypothetical protein	76	none	C-term GFP					DB	Figure S4	none		
GL50803_16342	hypothetical protein	182	none	C-term GFP					DB	Figure S4	none		
GL50803_15410	Ser/Thr protein kinase	32	ankyrin	C-term GFP		LC				cyFL	BB	Figure S4	none
GL50803_101326	hypothetical protein	35	none	C-term GFP		LC				cyFL	BB	Figure S4	all cytoplasmic axonemes, cytoplasm
GL50803_15218	WD-40 repeat protein	87	WD40	C-term GFP		LC				cyFL	Figure S4	all cytoplasmic axonemes, cytoplasm	
GL50803_23492	ankyrin repeat protein	82	ankyrin	C-term GFP		LC				Figure S4	none		
GL50803_17231	Nek kinase GK186	111	NEK, ankyrin	C-term GFP		LC				Figure S4	none		