

Organism	Annotation	Accession	Alignment identifier
Final Sequences			
	Vps27/Tom1		
H. sapiens	Vps27	NP_004703	HSV27
D. rerio	Vps27	XP_002661278	DRV27
G. gallus	Vps27	XP_426233	GGV27
C. intestinalis	Vps27	NP_001071892	CIV27
N. vectensis	Vps27	182116	NVV27
D. melanogaster	Vps27	NP_722830	DMV27
M. brevicollis	Vps27	2665	MBV27
C. neoformans	Vps27	XP_570941	CNV27
S. cerevisiae	Vps27	P40343	SCV27
H. sapiens	Tom1	NP_005479	HST1
H. sapiens	Tom1L1	NP_005477	HST1L1
H. sapiens	Tom1L2	NP_001076437	HST1L2
D. rerio	Tom1a	AAI16549	DRT1a
D. rerio	Tom1b	AAH56566	DRT1b
D. rerio	Tom1L2	XP_688819	DRT1L2
G. gallus	Tom1	NP_990475	GGT1
G. gallus	Tom1L1	XP_415646	GGT1L1
G. gallus	Tom1L2	XP_414813	GGT1L2
C. intestinalis	Tom1esc	XP_002128241	CIT1E
N. vectensis	Tom1esc	100273	NVT1E
D. melanogaster	Tom1esc	NP_648315	DMT1E
M. brevicollis	Tom1esc	13859	MBT1E
C. neoformans	Tom1esc a	XP_570354	CNT1Ea
C. neoformans	Tom1esc b	XP_572930	CNT1Eb
D. discoideum	Tom1esc	XP_635855	DDT1E
E. histolytica	Tom1esc a	XP_651355	EHT1Ea
E. histolytica	Tom1esc b	XP_653676	EHT1Eb
A. thaliana	Tom1esc a	NP_195002	ATT1Ea
A. thaliana	Tom1esc b	NP_564138	ATT1Eb
A. thaliana	Tom1esc c	NP_177823	ATT1Ec
A. thaliana	Tom1esc d	NP_197190	ATT1Ed
A. thaliana	Tom1esc e	NP_187491	ATT1Ee
A. thaliana	Tom1esc f	NP_181375	ATT1Ef
A. thaliana	Tom1esc g	NP_195796	ATT1Eg
A. thaliana	Tom1esc h	NP_201169	ATT1Eh
A. thaliana	Tom1esc i	NP_563762	ATT1Ei
C. reinhardtii	Tom1esc	401111	CRT1E
O. tauri	Tom1esc	11249	OTT1E
C. merolae	Tom1esc	CME025C	CMT1E
O. sativa	Tom1esc a	NP_001046532	OST1Ea
O. sativa	Tom1esc b	NP_001042484	OST1Eb
O. sativa	Tom1esc c	NP_001057544	OST1Ec
O. sativa	Tom1esc d	NP_001067438	OST1Ed
O. sativa	Tom1esc e	NP_001055830	OST1Ee
O. sativa	Tom1esc f	NP_001047818	OST1Ef
O. sativa	Tom1esc g	NP_001060807	OST1Eg
O. sativa	Tom1esc h	AAL58181	OST1Eh
O. sativa	Tom1esc i	NP_001044671	OST1Ei
O. sativa	Tom1esc j	NP_001055241	OST1Ej
P. patens	Tom1esc	196153	PPT1E
P. patens	Tom1esc	XP_001010380	PTT1E
P. ramorum	Tom1esc a	75625	PRT1Ea
P. ramorum	Tom1esc b	76391	PRT1Eb
N. gruberi	Tom1esc	68824	NGT1E
	ESCRTs		
B. anathema	Vps28	HM773427	
B. anathema	Vps2	HM773426	BAVPS2
B. anathema	Vps20	HM773425	BAVPS20
B. anathema	Vps32	HM773428	BAVPS32
B. anathema	Vps4	HM773429	
B. anathema	Vps31	HM773430	
B. anathema	Vps46	HM773431	BAVPS46
M. balamuthi	Vps23	EC703007	
M. balamuthi	Vps23	EC698844	
M. balamuthi	Vps28	EC711962	
M. balamuthi	Vps37	GU292811	
M. balamuthi	Vps22	EC710818	
M. balamuthi	Vps25	EC701301	
M. balamuthi	Vps2	EC707267	MBVPS2
M. balamuthi	Vps24	GU256250	MBVPS24
M. balamuthi	Vps4	EC708596	
M. balamuthi	Vps46	EC711152	MBVPS46
A. castellanii	Vps28	Contig5296 Contigs_from_Unchanged_contigs Contig3550	
A. castellanii	Vps22	Contig7727 Contigs_from_Unchanged_contigs Contig6633	
A. castellanii	Vps36	Contig16524 Contigs_from_Unchanged_contigs Contig17568	
A. castellanii	Vps2	Contig1459 CBINs/cbin297.fa.contigs cbin297.fa.Contig1	ACVPS2
A. castellanii	Vps4	Contig724 CBINs/cbin1496.fa.contigs cbin1496.fa.Contig1	
A. castellanii	Vps4	Contig2440 Contigs_from_Unchanged_contigs Contig1	
A. castellanii	Vps46	Contig2560 Contigs_from_Unchanged_contigs Contig155	ACVPS46
A. castellanii	Vta1	Contig2144 CBINs/cbin793.fa.contigs cbin793.fa.Contig2	
P. polycephalum	Vps37	EL564641	
P. polycephalum	Vps36	EL576160	
P. polycephalum	CHMP7	EL572472	
P. polycephalum	Vps4	EL5475991	
P. polycephalum	Vps46	EL577848	PPVPS46
H. vermiformis	Vps25	EC132121	
H. vermiformis	Vps2	EC132715	HVVPS2
H. vermiformis	Vps24	EC132318	HVVPS24
H. vermiformis	Vps31	combined EC128183 and EC133221	
H. sapiens	Vps20	NP_078867	HSVPS20
H. sapiens	Vps32a	NP_054888	HSVPS32A
H. sapiens	Vps32b	NP_789782	HSVPS32B
H. sapiens	Vps32c	NP_689497	HSVPS32C
H. sapiens	Vps60	NP_057494	HSVPS60
S. cerevisiae	Vps20	NP_013794	SCVPS20
S. cerevisiae	Vps32	NP_013125	SCVPS32
S. cerevisiae	Vps60	NP_010774	SCVPS60
D. discoideum	Vps20	XP_637438	DDVPS20
D. discoideum	Vps32	XP_643404	DDVPS32
D. discoideum	Vps60	XP_636927	DDVPS60
E. histolytica	Vps32	XP_656010	EHVPS32
E. histolytica	Vps60	XP_650324	EHVPS60
H. sapiens	Vps2a	NP_055268	HSVPS2A
H. sapiens	Vps2b	NP_054762	HSVPS2B
H. sapiens	Vps24	NP_057163	HSVPS24
H. sapiens	Vps46a	NP_002759	HSVPS46A
H. sapiens	Vps46b	NP_065145	HSVPS46B
S. cerevisiae	Vps2	NP_012924	SCVPS2
S. cerevisiae	Vps24	NP_012883	SCVPS24
S. cerevisiae	Vps46	NP_012961	SCVPS46
D. discoideum	Vps2a	XP_629585	DDVPS2A
D. discoideum	Vps2b	XP_635908	DDVPS2B
D. discoideum	Vps24	XP_638395	DDVPS24
D. discoideum	Vps46	XP_647634	DDVPS46
E. histolytica	Vps2	XP_654699	EHVPS2
Sequences from the first round of Vps27/Tom1 phylogenetics			
H. sapiens	Vps27	NP_004703	HSV27
H. sapiens	Tom1	NP_005479	HST1
H. sapiens	Tom1L1	NP_005477	HST1L1
H. sapiens	Tom1L2a iso1	NP_001028723	HST1L2a
H. sapiens	Tom1L2b iso2	NP_001076437	HST1L2b
S. cerevisiae	Vps27	P40343	SCV27
D. melanogaster	Vps27	NP_722830	DMV27
D. melanogaster	Tom1L2	NP_648315	DMT1L2
C. neoformans	Vps27a	XP_570941	CNV27a
C. neoformans	Tom1	XP_570354	CNT1
C. neoformans	Vps27b	XP_572930	CNV27b
D. rerio	Vps27	XP_002661278	DRV27
D. rerio	Tom1a	AAI16549	DRT1a
D. rerio	Tom1b	AAH56566	DRT1b
D. rerio	Tom1L2	XP_688819	DRT1L2
N. vectensis	Vps27	182116	NVV27
N. vectensis	Tom1L2	100273	NVT1L2
M. brevicollis	Vps27	2665	MBV27
M. brevicollis	Tom1L2	13859	MBT1L2
D. discoideum	Tom1L2	XP_635855	DDT1L2
E. histolytica	Tom1a	XP_651355	EHT1a
E. histolytica	Tom1b	XP_001913512	EHT1b
E. histolytica	Tom1L2	XP_653676	EHT1L2
A. thaliana	Tom1L2a	NP_195002	ATT1L2a
A. thaliana	Tom1L2b	NP_564138	ATT1L2b
A. thaliana	Tom1L2c	NP_177823	ATT1L2c
A. thaliana	Tom1L2d	NP_197190	ATT1L2d
A. thaliana	Tom1L2e	NP_187491	ATT1L2e
A. thaliana	Tom1L2f	NP_181375	ATT1L2f
A. thaliana	Tom1L2g	NP_195796	ATT1L2g
A. thaliana	Tom1L2h	CAA18585	ATT1L2h
A. thaliana	Tom1L1	NP_201169	ATT1L1
A. thaliana	Tom1a	AAC00635	ATT1a
A. thaliana	Tom1b	NP_973770	ATT1b
A. thaliana	Tom1c	NP_563762	ATT1c
C. reinhardtii	Tom1L2	401111	CRT1L2
O. tauri	Tom1L2	11249	OTT1L2
C. merolae	Tom1L2	CME025C	CMT1L2
O. sativa	Vps27a	NP_001065496	OSV27a
O. sativa	Vps27b	BAF12780	OSV27b
O. sativa	Tom1a	EEE51810	OST1a
O. sativa	Tom1b	EAY79641	OST1b
O. sativa	Tom1L2a	NP_001046532	OST1L2a
O. sativa	Tom1L2b	EEE56715	OST1L2b
O. sativa	Tom1L2c	NP_001042484	OST1L2c
O. sativa	Tom1L2d	EAY73130	OST1L2d
O. sativa	Tom1L2e	EEC80523	OST1L2e
O. sativa	Tom1L2f	NP_001057544	OST1L2f
O. sativa	Tom1L2g	NP_001067438	OST1L2g
O. sativa	Tom1L2h	NP_001055830	OST1L2h
O. sativa	Tom1L2i	NP_001044671	OST1L2i
O. sativa	Tom1L2j	EAY97588	OST1L2j
O. sativa	Tom1L2k	NP_001055241	OST1L2k
O. sativa	Tom1L2l	EEC67842	OST1L2l
O. sativa	Tom1L2m	EEC71726	OST1L2m
O. sativa	Tom1L2n	NP_001047818	OST1L2n
O. sativa	Tom1L2o	AAL58181	OST1L2o
O. sativa	Tom1L2p	EAZ05339	OST1L2p
O. sativa	Tom1L2q	NP_001060807	OST1L2q
O. sativa	Tom1L2r	ABR25582	OST1L2r
P. patens	Vps27a	114284	PPV27a
P. patens	Vps27b	124457	PPV27b
P. patens	Vps27c	204293	PPV27c
P. patens	Tom1L2a	196153	PPT1L2a
P. patens	Tom1L2b	205924	PPT1L2b
P. patens	Tom1L2c	114284	PPT1L2c
P. patens	Tom1L2d	124457	PPT1L2d
T. gondii	Vps27	TGGT1_058390	TGV27
T. thermophila	Tom1L2a	XP_001023917	TTT1L2a
T. thermophila	Tom1L2b	XP_001010380	TTT1L2b
P. ramorum	Vps27a	96230	PRV27a
P. ramorum	Vps27b	75625	PRV27b
P. ramorum	Vps27c	80414	PRV27c
P. ramorum	Vps27d	95441	PRV27d
P. ramorum	Vps27e	78138	PRV27e
P. ramorum	Vps27f	72659	PRV27f
P. ramorum	Vps27g	84876	PRV27g
P. ramorum	Vps27h	72804	PRV27h
P. ramorum	Vps27i	86789	PRV27i
P. ramorum	Tom1L2	76391	PRT1L2
T. brucei	Tom1a	XP_829141	TBT1a
T. brucei	Tom1b	CBH18087	TBT1b
L. major	Tom1	XP_001687100	LMT1
T. cruzi	Tom1a	XP_803318	TCT1a
T. cruzi	Tom1b	XP_813111	TCT1b
N. gruberi	Tom1L1	68824	NGT1L1