Supplementary Table 2. M49 family peptidases from different species used in phylogenetic analysis.

Abbreviation	Species	Accession number	Species group
MONDOM	*Monodelphis domestica*	F6ZXH8	mammals
SARHAR	*Sarcophilus harrisii*	G3W555	
MUSMUS	*Mus musculus*	Q99KK7	
RATNOR	*Rattus norvegicus*	O55096	
NEOLEP	*Neotoma lepida*	A0A1A6HW94	
CRIGRI	*Cricetulus griseus*	G3I2H0	
TUPCHI	*Tupaia chinensis*	L8Y5A0	
HETGLA	*Heterocephalus glaber*	A0A0P6JC08	
CAVPOR	*Cavia porcellus*	H0UUH1	
ICTTRI	*Ictidomys tridecemlineatus*	I3ME44	
LOXAFR	*Loxodonta africana*	G3T8L7	
MUSPUT	*Mustela putorius*	M3XVE8	
PANTIG	*Panthera tigris*	A0A060KZU3	
EQUCAB	*Equus caballus*	F6TNY4	
HOMSAP	*Homo sapiens*	Q9NY33	
CALJAC	*Callithrix jacchus*	U3FHY1	
SUSSCR	*Sus scrofa*	L8I2E6	
BOSMUT	*Bos mutus*	F1RU52	
PANGUT	*Pantherophis guttatus*	A0A098LYJ3	non mammalian vertebrates
OPHAES	*Opheodrys aestivus*	A0A098LWX2	
BOIIRR	*Boiga irregularis*	A0A0B8RRY3	
CROADA	*Crotalus adamanteus*	J3RZ30	
ESHCOL	*Echis coloratus*	A0A0A1WDL	
XENLAE	*Xenopus laevis*	0	
XENTRO	*Xenopus tropicalis*	Q6DE90	
ASTMEX	*Astyanax mexicanus*	F7DZ42	
DANRER	*Danio rerio*	W5KIP6	
SCLFOR	*Scleropages formosus*	Q6DI20	
ONCMYK	*Oncorhynchus mykiss*	A0A0N8JZV5	
SALSAL	*Salmo salar*	A0A060X8W4	
TAKRUB	*Takifugu rubripes*	B5X435	
NOTFUR	*Nothobranchius furzeri*	H2TEX3	
APHSTR	*Aphyosemion striatum*	A0A1A8ABL4	
FUNHET	*Fundulus heteroclitus*	A0A1A7YL47	
GASACU	*Gasterosteus aculeatus*	A0A146P4W4	
ORENIL	*Oreochromis niloticus*	G3QAW5	
CALMIL	*Callorhinchus milii*	I3JPG4	
		V9KGU9	
BACDOR	*Bactrocera dorsalis*	A0A034VA64	arthropods
DROMOJ	*Drosophila mojavensis*	B4K999	
DROMEL	*Drosophila melanogaster*	Q9VHR8-2	
GLOMOR	*Glossina morsitans*	D3TMQ7	
STOCAL	*Stomoxys calcitrans*	A0A1I8NZT2	
ANOFAR	*Anopheles farauti*	A0A182QC05	
APIMEL	*Apis mellifera*	A0A088A023	

DAPPUL	*Daphnia pulex*	E9GTX0	
DAPMAG	*Daphnia magna*	A0A162P8G7	
GRAATR	*Graphocephala atropunctata*	A0A1B6KD94	
NECAME	*Necator americanus*	W2SLT7	nematodes
ANCCEY	*Ancylostoma ceylanicum*	A0A0D6M7T1	
ANGCOS	*Angiostrongylus costaricensis*	A0A0R3PGV3	
HAEPLA	*Haemonchus placei*	A0A0N4X8W6	
CAEELE	*Caenorhabditis elegans*	G5ECW7	
DRAMED	*Dracunculus medinensis*	A0A0N4U2V0	
SYPMUR	*Syphacia muris*	A0A0N5AXJ5	
TOXCAN	*Toxocara canis*	A0A0B2VIP3	
PRIPAC	*Pristionchus pacificus*	A0A0F5CUX7	
STEGLA	*Steinernema glaseri*	A0A1I7YLE5	
BURXYL	*Bursaphelenchus xylophilus*	A0A1I7SCL0	
SCHCOM	*Schizophyllum commune*	D8PVF6	fungi
LEUSP	*Leucoagaricus sp*	A0A137QPX9	
HETIRR	*Heterobasidion irregulare*	W4KKQ6	
CANGLA	*Candida glabrata*	A0A0W0CQ92	
SACCER	*Saccharomyces cerevisiae*	Q08225	
CYBJAD	*Cyberlindnera jadinii*	A0A0H5CH85	
OGAPAR	*Ogataea parapolymorpha*	W1QG85	
NEOFIS	*Neosartorya fischeri*	A1CY04	
EXOSPI	*Exophiala spinifera*	A0A0D1Y698	
AURPUR	*Aureobasidium pullulans*	A0A074XX23	
FLABAC2	*Flavobacteriales bacterium*	A4AQA4	bacteria
KORALG	*Kordia algicida*	A9ECI1	
DOKDON	*Dokdonia donghaensis*	A2TUF5	
CROATL	*Croceibacter atlanticus*	A3U8C5	
GRAFOR	*Gramella forsetii*	A0LXF2	
FLABAC1	*Flavobacteria bacterium* (strain BBFL7)	Q26C69	
	Opitutus terrae (strain DSM 11246/PB90-1)		
OPITER	*Pedobacter saltans* DSM 12145	B1ZZ02	
	Plesiocystis pacifica SIR-1		
PEDSAL	*Bacteroides cellulosilyticus* DSM 14838	E4KIB0	
PLEPAC	*Bacteroides thetaiotaomicron*	A6GID1	
BACCEL	*Parabacteroides merdae* ATCC 43184	E2NMV7	
	Parabacteroides johnsonii DSM 18315		
BACTHE	*Prevotella marshii* DSM 16973	Q8A6N1	
PARMER	*Prevotella ruminicola* (strain ATCC	A7ACL0	
PARJOH	19189/JCM 8958/23)	B7BE50	
	Alistipes shahii WAL 8301		
PREMAR	*Alistipes putredinis* DSM 17216	E0NQE0	
PRERUM	*Porphyromonas gingivalis*	D5ERS0	
	Porphyromonas gingivalis (strain ATCC		
ALISHA	33277/ DSM 20709/JCM 12257)	D4IQ41	
ALIPUT		B0MWP5	
PORGIN1		Q7MX92	
PORGIN2		B2RLB9	