

Alternative topologies	Phylogenetic hypotheses		13-gene data set			
			-logL	AU	KH	SH
(Outg,(Veti,(Canc,(Rane,(Volu,(Coni,((Muri,(Muri,Muri)),((Turr,(Tere,Turr)),Nass))))));	Our ML topology based on complete mt genomes	#1	46914.17	0.877	0.701	0.996
(Outg,(Veti,(Canc,(Rane,(Volu,((Muri,(Muri,Muri)),((Turr,(Tere,Turr)),Coni),Nass))))));	Conoidea monophyletic	#2	46921.54	0.439	0.299	0.825
(Outg,(Veti,(Rane,(Canc,(Volu,((Muri,(Muri,Muri)),((Turr,(Tere,Turr)),Coni),Nass))))));	Morphology-based phylogeny (adapted from Fig.5 of Ponder&Lindberg, 1997)	#7	46935.85	0.155	0.134	0.478
(Outg,(Veti,(Canc,(Rane,(Volu,(Coni,((Muri,(Muri,Muri)),((Tere,(Turr,Turr)),Nass))))));	Turridae monophyletic	#3	46932.82	0.077	0.058	0.511
(Outg,(Veti,(Canc,(Rane,(Coni,((Muri,(Muri,Muri)),Volu),((Turr,(Tere,Turr)),Nass))))));	Muricoidea monophyletic	#4	46933.31	0.075	0.055	0.505
(Outg,(Veti,(Rane,(Canc,(Volu,(Coni,((Muri,(Muri,Muri)),((Turr,(Tere,Turr)),Nass))))));	Neogastropoda monophyletic	#5	46935.17	0.01	0.009	0.462
(Outg,(Veti,((Canc,((Muri,(Muri,Muri)),(Coni,(Turr,(Tere,Turr))))),((Rane,Volu),Nass)))));	ML phylogenetic hypothesis (adapted from Fig. 2 of Colgan, 2007)	#8	46986.46	0.002	0.007	0.021
(Outg,(Veti,(Rane,(Canc,((Muri,(Muri,Muri)),Volu),((Tere,(Turr,Turr)),Coni),Nass))))));	All groups within Caenogastropoda monophyletic	#6	46976.17	<0.001	0.003	0.016
(Outg,(Veti,(Rane,(Canc,(((Coni,(Turr,Turr)),Tere),(Volu,(Muri,(Muri,Muri)),Nass))))));	Morphology-based phylogeny Kantor, 1996	#9	47035.14	<0.001	<0.001	<0.001

Veti: Vetigastropoda; Canc: Cancellariidae; Rane: Ranellidae; Volu: Volutidae; Coni: Conidae; Turr: Turridae; Tere: Terebridae;
Muri: Muricidae; Nass: Nassariidae; Outg: outgroup