Character 64 - 'Embryonic shell: Extended in larvae' Character adds 6 to tree score Acanthotretella applicable region (1 + 5)Lingulosacculus additional region (5) Lingulellotreta malongensis state changes (1) Haplophrentis carinatus Pedunculotheca diania Novocrania Craniops Ussunia Gasconsia Coolinia pecten Antigonambonites planus Orthis Terebratulina 2 Alisina 2 Longtancunella chengjiangensis Glyptoria 2 Nisusia sulcata Kutorgina chengjiangensis Tomteluva perturbata Yuganotheca elegans Salanygolina Micromitra Askepasma toddense ? Lingula 2 Eoobolus ? Clupeafumosus socialis 2 Pelagodiscus atlanticus 1 Mummpikia nuda Mickwitzia muralensis Heliomedusa orienta ? Micrina ? Paterimitra 2 Phoronis 2 Eccentrotheca Dailyatia 1: Not extended; embryonic shell contiguous with adult shell 2: Extended into larval shell, separated from adult shell by prominent nick ?: Ambiguous -: Inapplicable

Character 64 - 'Embryonic shell: Extended in larvae'