Character 24 – 'Sclerites: Dorsal valve: Posterior surface: Notothyrium: Shape' Character adds 5 to tree score Acanthotretella applicable region (1 + 5) Lingulosacculus additional region (5) Lingulellotreta malongensis state changes (0) Haplophrentis carinatus Pedunculotheca diania Novocrania Craniops Ussunia Gasconsia Coolinia pecten Antigonambonites planus Orthis Terebratulina Alisina Longtancunella chengjiangensis Glyptoria Nisusia sulcata Kutorgina chengjiangensis Tomteluva perturbata Yuganotheca elegans Salanygolina Micromitra Askepasma toddense Lingula Eoobolus Clupeafumosus socialis Pelagodiscus atlanticus Mummpikia nuda Mickwitzia muralensis Heliomedusa orienta - ☐ Micrina Paterimitra 2 Phoronis Eccentrotheca Dailyatia 1: Parallel-sided cleft 2: Triangular -: Inapplicable

Character 24 – 'Sclerites: Dorsal valve: Posterior surface: Notothyrium: Shape'