Character 18 - 'Sclerites: Bivalved: Muscle scars: Dorsal diductor: position' Character adds 2 to tree score Craniops applicable region (1 + 0)Novocrania additional region (0) ? Ussunia state changes (2) 2 Gasconsia Antigonambonites planus Coolinia pecten Orthis Terebratulina Alisina ? Longtancunella chengjiangensis Glyptoria Nisusia sulcata Kutorgina chengjiangensis Tomteluva perturbata Yuganotheca elegans ? Salanygolina Askepasma toddense Micromitra Eoobolus Lingula Clupeafumosus socialis Pelagodiscus atlanticus Mummpikia nuda Heliomedusa orienta Mickwitzia muralensis ? Micrina Pedunculotheca diania Haplophrentis carinatus Acanthotretella Lingulosacculus Lingulellotreta malongensis ? Paterimitra Eccentrotheca Phoronis Dailyatia 1: Close to commissural plane 2: Oblique to commissural plane

Character 18 - 'Sclerites: Bivalved: Muscle scars: Dorsal diductor: position'

3: At high angle to commissural plane

?: Ambiguous-: Inapplicable