vetulicolans removed a priori Solute Coleicarpus sprinklei Cephalochordata Branchiostoma Eocrinoidea Akadocrinus 100% 00%Rhombifera Macrocystella └Rhombifera Pleurocystites Eocrinoidea Ubaghsicystis 99 Eocrinoidea Gogia Eocrinoidea Lyracystis radiata Eocrinoidea Kinzercystis 72% Crinoidea Aethocrinus Edrioasteroidea Camptostroma #Helicoplacus Helicocystis moroccoensis Edrioasteroidea Kailidiscus chinensis Edrioasteroidea Stromatocystites Solute Castericystis vali 86%-Cornute Ceratocystis perneri Cornute Ponticulocarpus 1009 Mitrate Lagynocystis pyramidalis Mitrate Mitrocystella incipiens 85%Ctenocystoid Courtessolea 74% 97% -Ctenoimbricata spinosa Cinctan Bohemiacinctus havliceki Vetulocystis catenata Yanjiahella biscarpa 86% —Pterobranch Cephalodiscus -Pterobranch Rhabdopleura Hemichordata Oesia Enteropneusta Spengelidae Glandiceps Enteropneusta Harrimaniidae Saccoglossus -Hemichordata Spartobranchus Hemichordata Gyaltsenglossus Rotadiscus Herpetogaster collinsi Phlogites longus

Shankouclava anningense

Amiskwia sagittiformis

Tunicata Ciona

99%

97%

81%

87%

Leaf stability Unstable

Stable

## vetulicolans removed a posteriori



