Helicocystis moroccoensis removed a priori Vetulocystis catenata Eocrinoidea Gogia -Beidazoon venustum Vetulicola cuneata Eocrinoidea Akadocrinus Rhombifera Macrocystella Rhombifera Pleurocystites Eocrinoidea Ubaghsicystis 100% Eocrinoidea Lyracystis radiata Eocrinoidea Kinzercystis 77% Crinoidea Aethocrinus 98% Edrioasteroidea Camptostroma %Helicoplacus 99% Edrioasteroidea Kailidiscus chinensis -Edrioasteroidea Stromatocystites Solute Castericystis vali Solute Coleicarpus sprinklei 100% -Cornute Ceratocystis perneri Cornute Ponticulocarpus Mitrate Lagynocystis pyramidalis -Mitrate Mitrocystella incipiens 90%Ctenocystoid Courtessolea Ctenoimbricata spinosa Cinctan Bohemiacinctus havliceki Banffia constricta Yanjiahella biscarpa 89% -Pterobranch Cephalodiscus LPterobranch Rhabdopleura 98% Hemichordata Oesia Enteropneusta Spengelidae Glandiceps Enteropneusta Harrimaniidae Saccoglossus Hemichordata Spartobranchus Hemichordata Gyaltsenglossus Rotadiscus Herpetogaster collinsi Phlogites longus Shankouclava anningense Leaf stability Tunicata Ciona Unstable Cephalochordata Branchiostoma Amiskwia sagittiformis Stable

## Helicocystis moroccoensis removed a posteriori



