Solute Castericystis vali removed a priori Vetulocystis catenata -Beidazoon venustum Vetulicola cuneata Eocrinoidea Akadocrinus 100% <sup>⊃</sup>Q<sup>2</sup>Rhombifera Macrocystella LRhombifera Pleurocystites Eocrinoidea Ubaghsicystis 100% Eocrinoidea Gogia Eocrinoidea Lyracystis radiata Eocrinoidea Kinzercystis 70% Crinoidea Aethocrinus 99% Edrioasteroidea Camptostroma 97% <sup>9</sup>Helicoplacus -Helicocystis moroccoensis Edrioasteroidea Kailidiscus chinensis -Edrioasteroidea Stromatocystites 100% -Solute Coleicarpus sprinklei 84%-Cornute Ceratocystis perneri Cornute Ponticulocarpus 100% Mitrate Lagynocystis pyramidalis -Mitrate Mitrocystella incipiens 94%Ctenocystoid Courtessolea <sup>99%</sup>[<sup>L</sup>Ctenoimbricata spinosa Cinctan Bohemiacinctus havliceki Banffia constricta -Yanjiahella biscarpa 81% -Pterobranch Cephalodiscus LPterobranch Rhabdopleura 93% Hemichordata Oesia %Enteropneusta Spengelidae Glandiceps Enteropneusta Harrimaniidae Saccoglossus Hemichordata Spartobranchus Hemichordata Gyaltsenglossus Rotadiscus Herpetogaster collinsi -Phlogites longus 77% Shankouclava anningense Leaf stability -Tunicata Ciona Unstable Cephalochordata Branchiostoma Amiskwia sagittiformis

Stable

## Solute Castericystis vali removed a posteriori



