**S1 Figure**. **Phylogenetic tree of shallow-water octocorals in the Caribbean based on partial ND2 and mtMutS sequences.** The represented is the unrooted Bayesian Inference tree with its respective branch supports (estimated posterior probabilities). The bayesian inference, maximum credibility tree was the one with the highest branch support and best resolution in terminal branches although phylogenetic relationships among the three methods did not differ. Branches in boxes are zoomed aside for clarification purposes. Sequences that end with J were obtained in this study. (*Pseudopterogorgia* = *Antillogorgia*.). New sequences GenBank Accession Numbers KP777808-KP777816 (*ND2*) and KP772630- KP772634 (*mtMutS*). (Nexus tree below)



|  |
| --- |
| #NEXUSbegin taxa; dimensions ntax=49; taxlabels Pdichotom Pgrisea Pfusifera Pnutans Iciligosp Ecaribaeo Basbestin DnodulifJ Cbarbaden CshmiJ Melongata Mlaxa Mmuricata Mpinnata MatlanticJ Esp1J Easperula Eclaviger Etournefo ElaciniaJ EcalyculJ EmammosaJ Eflexuosa Pflagello Pporosa Pcrucis Pwagenaar PkunaJ Phomomall PkukenthJ EtayronaJ Efusca Eknighti Elaxispic Esuccinea EpallidaJ Mflavida Panceps PguadaJ Pcitrina Gventalin Pacerosa Pamerican PrigidaJ PhystrixJ Pbipinnat Pkallos Gmariae Pelisabet;end;begin trees; tree con\_50\_majrule = [&R] (Pdichotom:0.001115,Pgrisea:0.001323,((Pfusifera:0.001291,Pnutans:0.004411)[&label=1.0]:0.006005,(((Iciligosp:0.072993,((Ecaribaeo:0.138279,(Basbestin:0.030032,DnodulifJ:0.050609)[&label=1.0]:0.026045)[&label=0.83]:0.009691,(Cbarbaden:0.006518,CshmiJ:0.029546)[&label=0.99]:0.064878)[&label=1.0]:0.071335)[&label=0.89]:0.013918,(((Melongata:0.001195,Mlaxa:0.001322,Mmuricata:0.001146,Mpinnata:0.007364,MatlanticJ:0.003328)[&label=0.99]:0.029658,(((Esp1J:0.008089,Easperula:0.001059,Eclaviger:0.001147,Etournefo:0.002692)[&label=0.98]:0.003118,ElaciniaJ:0.004631)[&label=0.82]:0.002762,(EcalyculJ:0.00844,EmammosaJ:0.009096)[&label=0.99]:0.006892,Eflexuosa:0.004534,(Pflagello:0.001143,Pporosa:0.003184,Pcrucis:0.001193,Pwagenaar:0.001057)[&label=0.99]:0.003948,PkunaJ:0.006597,(Phomomall:0.001102,PkukenthJ:0.001144)[&label=0.99]:0.00373,EtayronaJ:0.001107,Efusca:0.001067,Eknighti:0.001062,(Elaxispic:0.001097,Esuccinea:0.002167)[&label=0.82]:0.001868,EpallidaJ:0.001075)[&label=0.73]:0.004385)[&label=1.0]:0.017869,(Mflavida:0.018766,((Panceps:0.005026,PguadaJ:0.011182)[&label=0.99]:0.006615,Pcitrina:0.005256)[&label=1.0]:0.017914)[&label=1.0]:0.02686)[&label=0.7]:0.005762)[&label=1.0]:0.017157,((Gventalin:0.007927,(Pacerosa:0.00292,(Pamerican:0.001135,PrigidaJ:0.005231)[&label=0.67]:0.001811,PhystrixJ:0.001871)[&label=1.0]:0.005011)[&label=0.99]:0.00444,((Pbipinnat:0.005276,Pkallos:0.010112)[&label=1.0]:0.007268,(Gmariae:0.003209,Pelisabet:0.002151)[&label=1.0]:0.008757)[&label=0.88]:0.003202)[&label=1.0]:0.022228)[&label=1.0]:0.065694)[&label=0.99]:0.003834); 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