

Supplementary Material

**The Small GTPase Rab5c Exerts Bi-function in Singapore Grouper
Iridovirus Infections and Cellular Responses in the Grouper,
*Epinephelus coioides***

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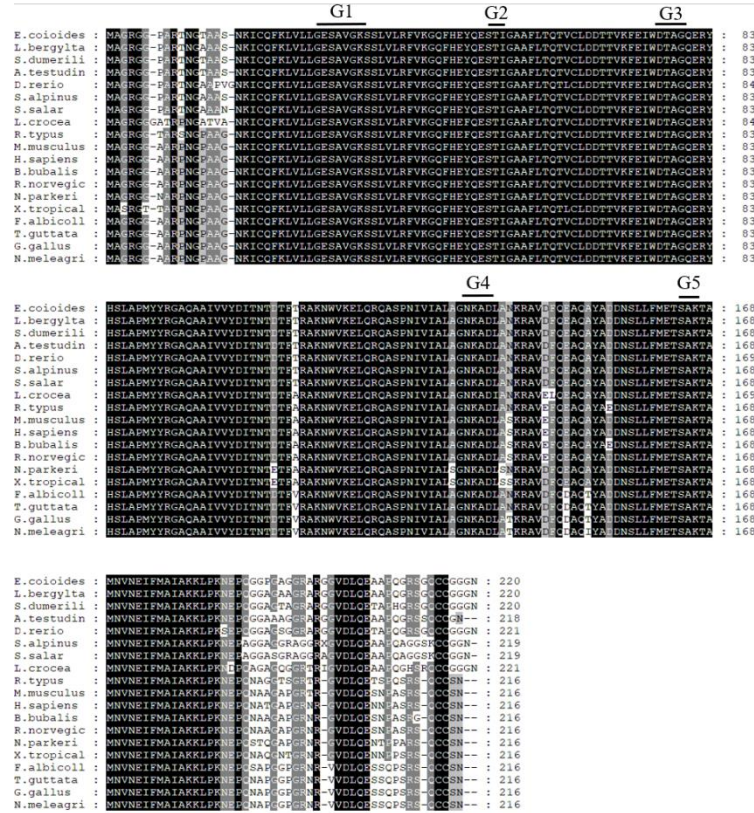
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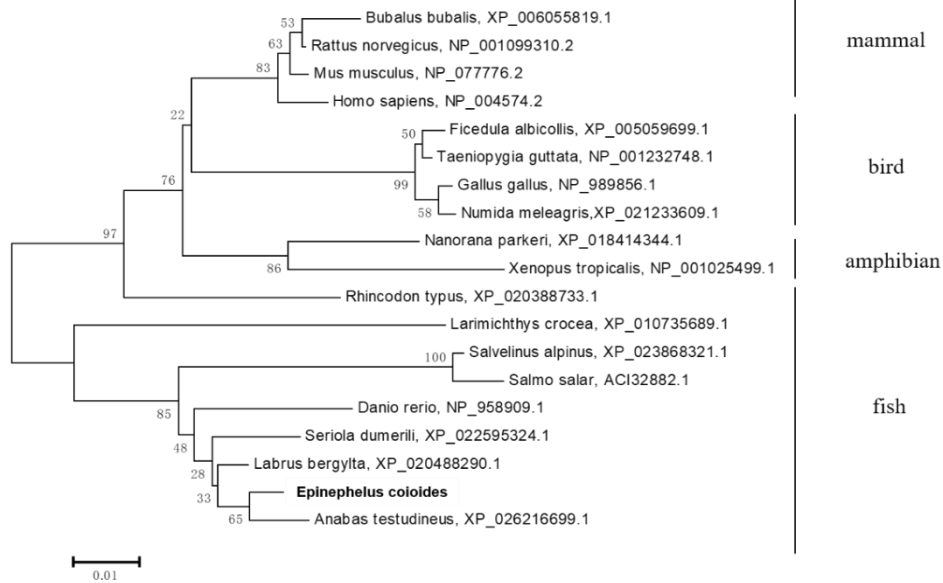
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A



B



Supplementary Figure 1. (A) Amino acid sequence alignments of Rab5c from different species. The conserved domains G1, G2, G3, G4 and G5 were marked above the sequences. (B) Phylogenetic tree of Rab5c proteins. Phylogenetic tree was constructed by the neighbor-joining method using MEGA 6.0 software. The accession number of selected Rab5c sequences were listed on the right of species name.

Supplementary Table 1 Sequence of primers and si-EcRab5c used in this study

Name	Sequence (5'-3')
RT- EcRab5c-F	GGACAGGAACGGTATCACAG
RT- EcRab5c-R	CTCCTTACCCAGTTCTTCG
RT- Actin-F	TACGAGCTGCCTGACGGACA
RT- Actin-R	GGCTGTGATCTCCTTCTGCA
RT- ICP18-F	ATCGGATCTACGTGGTTGG
RT- ICP18-R	CCGTGCTCGGTGTCTATTC
RT- VP49-F	CCCGCAATGAACTCGCCAAACT
RT- VP49-R	CCGTGACGTACTGCCAAGCCTGA
RT- MCP-F	GCACGCTTCTCTCACCTTCA
RT- MCP-R	AACGGCAACGGGAGCACTA
EcRab5c-ORF-F	ATGGCAGGGCGAGGCGGA
EcRab5c-ORF-R	GTCCCCGCCCCACAGC
pEGFP-EcRab5c-F	GGGGTACCATGGCAGGGCGA
pEGFP-EcRab5c-R	CGGGATCCGTTCCCGCCCCACAGC
pcDNA3.1-EcRab5c-F	GGGGTACCGAATGGCAGGGCGAGGCGGA
pcDNA3.1-EcRab5c-R	CGGAATTCGTTCCCGCCCCACAGC
RT- IFN-F	ACTGTGTCCTTCCCGAATCATCTGT
RT- IFN-R	CAGCCTGCCTGCTTACAACACTGAGAA
RT- IRF-7-F	CAACACCGGATAACAACCAAG
RT- IRF-7-R	GTTCTCAACTGCTACATAGGGC
RT- ISG15-F	CCTATGACATCAAAGCTGACGAGAC
RT- ISG15-R	GTGCTGTTGGCAGTGACGTTGTAGT
RT- MyD88-F	AGCTGGAGCAGACGGAGTG
RT- MyD88-R	GAGGCTGAGAGCAAACCTTGGTC
RT- IFP35-F	TTCAGATGAGGAGTTCTCTCTTGTG
RT- IFP35-R	TCATATCGGTGCTCGTCTACTTTCA
RT- TRAF6-F	CCCTATCTGCCTTATGGCTTTGA
RT- TRAF6-R	ACAGCGGACAGTTAGCGAGAGTAT
RT- MDA5-F	ACCTGGCTCTCAGAATTACGAACA
RT- MDA5-R	TCTGCTCCTGGTGGTATTCGTTT
RT- TNF- α -F	GTGTCCTGCTGTTTGCTTGGTA
RT- TNF- α -R	CAGTGTCCGACTTGATTAGTGCTT
RT- IL-6-F	GGTTGGTCCAAGGTGTGCTTA
RT- IL-6-R	CTGGGATTGTGCGAGGTCCTT
RT- IL-1 β -F	AACCTCATCATCGCCACACA
RT- IL-1 β -R	AGTTGCCTCACAACCGAACAC
pEGFP-EcRab5c-Q80L-F	ACTGCAGGACTAGAACGGTATCACAGCTTGGCACCCATGTA
pEGFP-EcRab5c-Q80L-R	ATACCGTTCTAGTCCTGCAGTGTCCCAGATCTCAAACCTTG
pEGFP-EcRab5c-S35N-F	GTGGGGAAGAACAGCTTGGTGCTGCGCTTTGTCAAAGGCCA
pEGFP-EcRab5c-S35N-R	CACCAAGCTGTTCTTCCCCACTGCTGATTCCCCAACAGC
The labeled si-EcRab5c	AGACUGCUAUGAAUGUCAUGAGAU-cy3