# Supplementary Materials: Molecular Characterization and Biological Effects of a C-Type Lectin-Like Receptor in Large Yellow Croaker (*Larimichthys crocea*)

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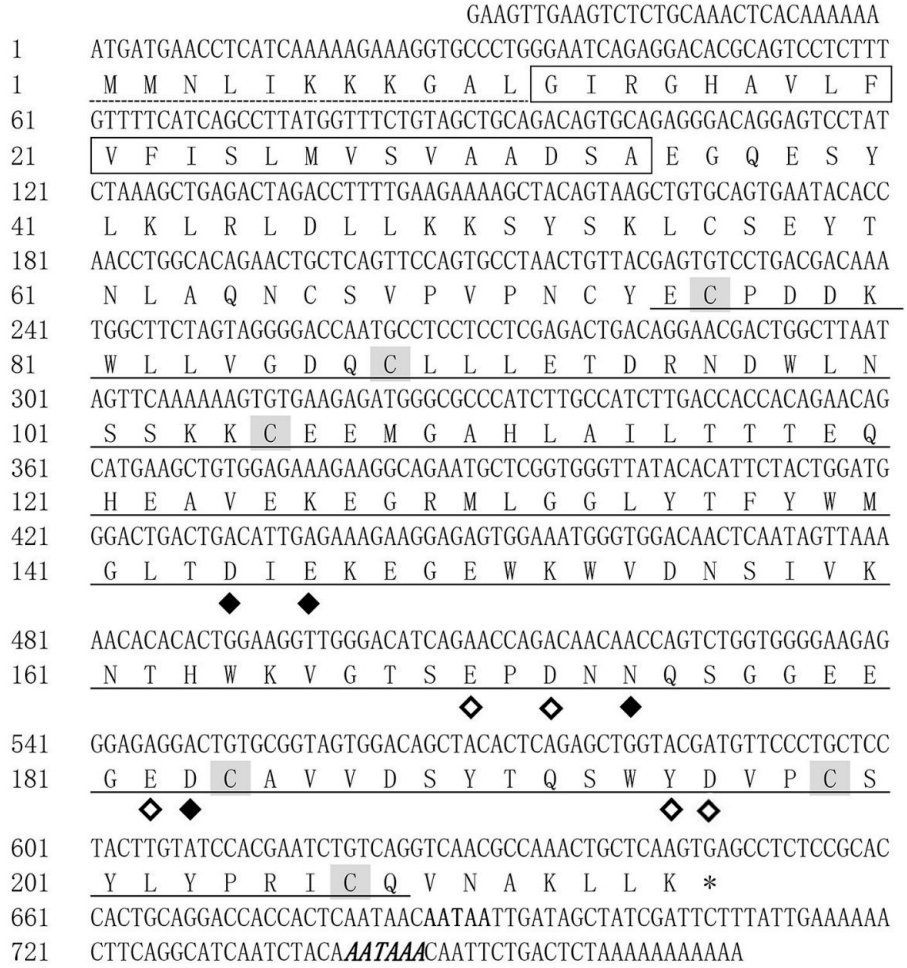
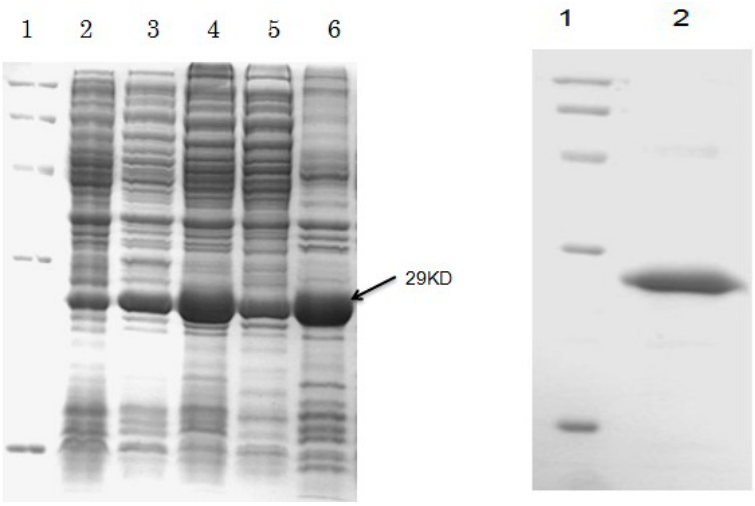



**Figure S1.** Nucleotide and deduced amino acid sequences of LycCTLR cDNA. In the nucleotide and deduced amino acid sequences of LycCTLR cDNA, a typical mRNA polyadenylation signal (AATAAA) are shown in italic in the 3′-UTR. The transmembrane domain is boxed and the intracellular domain is marked by broken line. The C-type lectin-like domain predicted by SMART is underlined. The conserved cysteine residues are highlighted in dark grey. $Ca^{2+}$ binding site 1 are marked with solid diamond. $Ca^{2+}$ binding site 2 are marked with hollow diamond.




(**a**) (**b**)

**Figure S2.** Production and purification of recombinant LycCTLR protein. (**a**) Lane 1: protein molecular weight marker; Lane 2: induced pET-His in *E. coli* BL21; Lane 3: non-induced pET-LycCTLR in *E. coli* BL21; Lane 4: induced pET-LycCTLR in *E. coli* BL21; Lane 5: supernatant from induced pET-LycCTLR in *E. coli* BL21; Lane 6: inclusion body from induced pET-LycCTLR in *E. coli* BL21; (**b**) Lane 1: protein molecular weight marker; Lane 2: purified rLycCTLR protein.

**Table S1.** Oligonucleotide primers used for cloning and expression analyses.

| Primer Name | Nucleotide Sequence (5′→3′) | Purpose |
|---|---|---|
| 5′ outer | ACACTCGTAACAGTTAGGCACT | RACE PCR |
| 5′ inner | AGAAACCATAAGGCTGATGAAA | |
| 3′ outer | GAAATGGGTGGACAACTCAATA | |
| 3′ inner | GGGACATCAGAACCAGACAACA | |
| CTLR-gF | GAAGTCTCTGCAAACTCACAAA | Genome cloning |
| CTLR-gR | GTCAGAATTGTTTATTTGTAGAT | |
| CTLR-DistF | CGGAATTCGAGGGACAGGAGTCCTATCTA | Real-time PCR |
| CTLR-DistR | CCCGGACTTTCACTTGAGCAGTTTGGCGT | |
| CTLR-RF | CCGGAATTCATGATGAACCTCATCAAAAA | Recombinant expression |
| CTLR-RR | CCCAAGCTTTCACTTGAGCAGTTTGGCGT | |
| Actin-F | GACCTGACAGACTACCTCATG | β-actin amplification |
| Actin-R | AGTTGAAGGTGGTCTCGTGGA | |