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Molecular characterization and expression analysis of complement component 3 in dojo loach (*Misgurnus anguillicaudatus*)

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Highlights

- The full-length complement C3-1 cDNA sequence was identified and analyzed from dojo loach (*Misgurnus anguillicaudatus*)
- The *Ma-C3-1* and *Ma-C3-3* gene were highly expressed in liver;
- The *Ma-C3-2* was highly expressed in spleen;
- Significantly pathological changes in both gill and skin after bacterial infection;
- The expression of three isoforms of C3 and nine complement-relevant genes were up-regulated in gill, skin and liver after infection with *A. hydrophila*;

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