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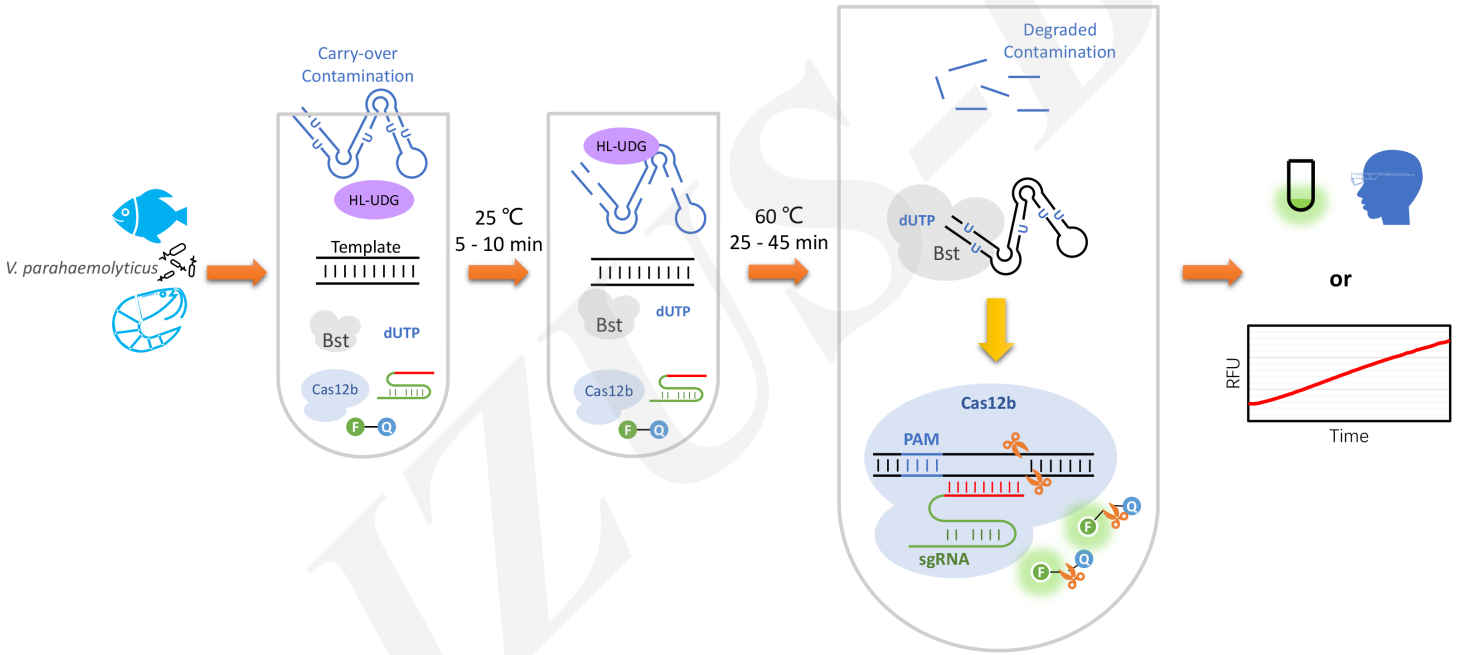
Rapid visual detection of *Vibrio parahaemolyticus* by combining LAMP-CRISPR/Cas12b with heat-labile uracil-DNA glycosylase to eliminate carry-over contamination

Key words: UDG; LAMP; CRISPR/Cas12b; Vibrio parahaemolyticus; One-pot detection

Research Summary

This correspondence mainly established a one-pot system that combines uracil-DNA-glycosylase (UDG), loop-mediated isothermal amplification (LAMP), and CRISPR/Cas12b for detecting *V. parahaemolyticus* in seafood.



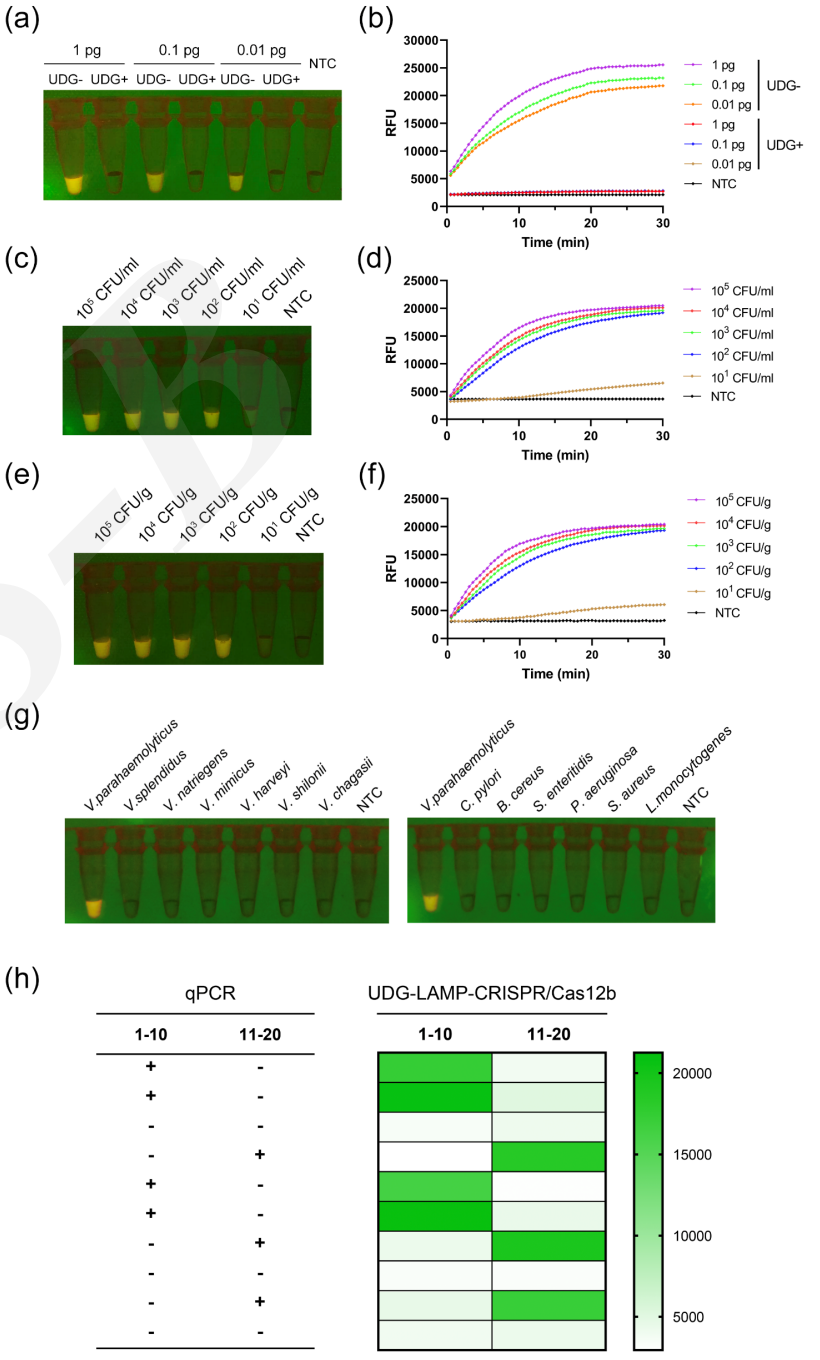
- **One-pot detection of *V. parahaemolyticus***
- **Effectively remove carryover Contamination**

Innovation points

- **One-pot detection of *V. parahaemolyticus* without intermediate opening the tube.**

- **Eliminating the carry-over contamination of amplification products.**

- **Consistent with the results of the qPCR.**



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