

NOTICE INVITING EXPRESSION OF INTEREST

The Indian catfish *Clarias magur* (magur; desi magur) is a high priced, popular fish in India due to its excellent taste, minimal intramuscular bones, and therapeutic properties. One of the reasons for it entering IUCN's 'Endangered' list is the fast growing exotic African catfish *Clarias gariepinus* (gariepinus) that was illegally introduced in India. Although gariepinus is now banned in India, similar appearance up to 100 – 150 g size makes it difficult for the consumer and regulatory bodies to distinguish among magur, gariepinus and their hybrid. Due to this gariepinus and magur-gariepinus hybrids are being sold at a high price as 'magur', and aquaculture of magur is also affected due to misidentification.

ICAR-CIFE has developed a PCR-based technology that can identify whether a fish is magur, gariepinus or their hybrid in a single reaction using genomic DNA isolated from fin clips (or other tissues) as the template. A detailed genotyping study on fish being sold as magur in fish markets of 19 Districts in 7 States of India has confirmed the robustness of this technology.

Hence, ICAR-CIFE desires to produce and market this PCR-based genotyping kit to regulatory bodies like Department of Fisheries (GoI), State Govt. Fisheries Departments, testing laboratories, researchers, etc.

Interested parties are invited to quote the price of producing minimum 500 numbers of this kit comprising 20 reactions of 25 µl, preferably in Public-Private Partnership mode.

The components of the kit are -

1. Four oligonucleotide primers (~ 20 bases each; total 91 bases.). 10 pmoles of each primer per reaction (i.e. 200 pmoles of each primer)
2. Premixed dNTP solution (10 mM each of dATP, dCTP, dGTP, dTTP): 20 µl
3. Taq Polymerase (1.25 U/ µl): 10 µl
4. Taq Pol Buffer (10x): 50 µl
5. Sterile demineralised water: 1 ml
6. Two positive control plasmids
7. Appropriate packaging for the above components
8. Brief instructions for use

NOTE: ICAR-CIFE, Mumbai holds the rights to this intellectual property and has filed a patent. The final terms and conditions will be decided after discussions with interested parties and ICAR-CIFE, Mumbai will enter into an agreement with one selected party.

Last date for submitting responses: 31.07.2025, 5:30 p.m.

Interested parties are invited to send their quotations in sealed envelopes marked -

‘EoI: PCR-based genotyping’

To
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