

## Muscle growth markers in sexually dimorphic *Xiphophorus* fish

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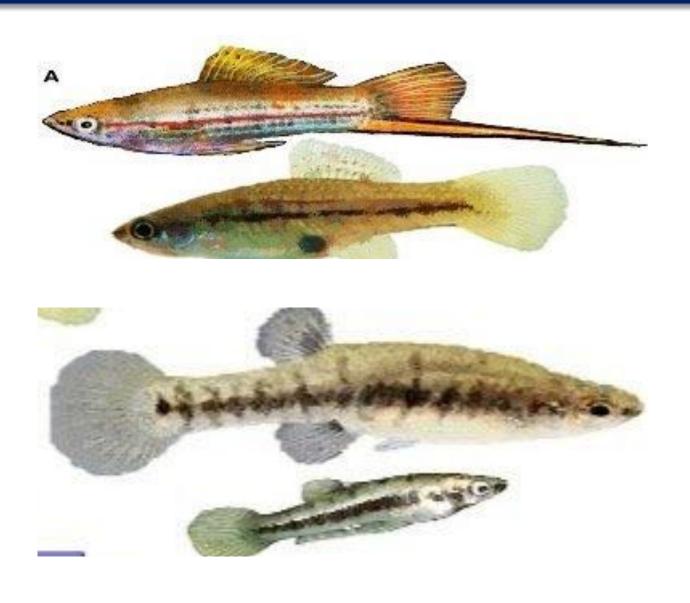
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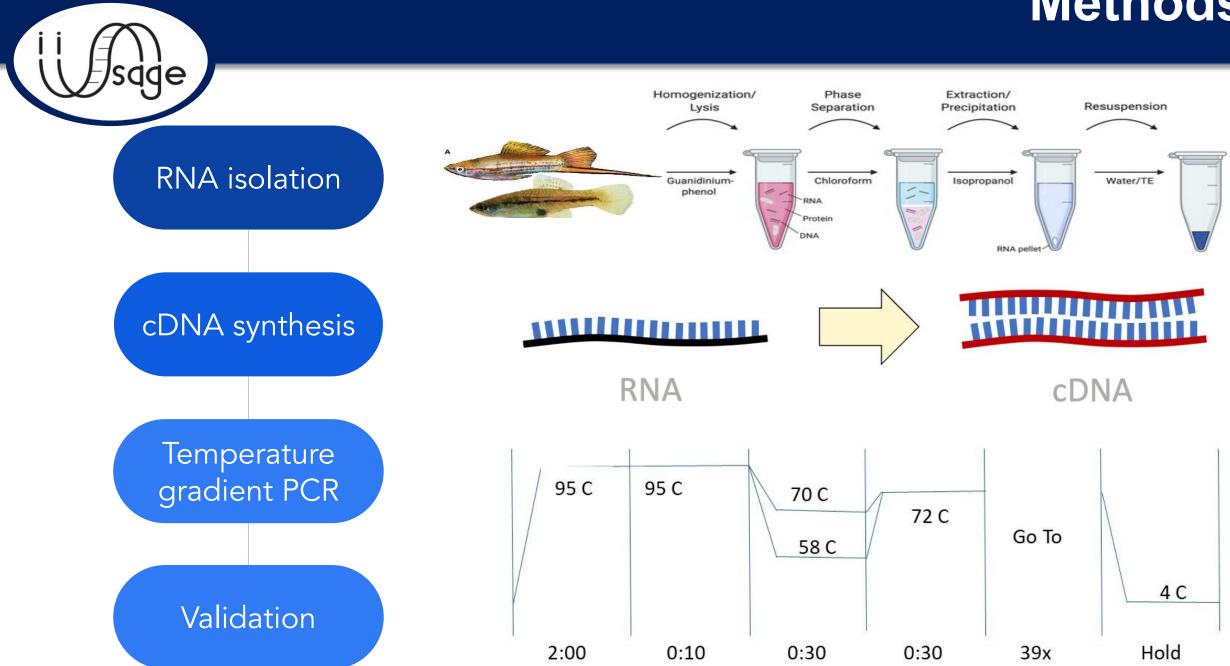
## **Context and Procedure**



- Goal: validate Pax3 and Pax7 primers
- Pax3 and Pax7 are orthologs and play roles in skeletal muscle tissue growth
- Xiphophorus maculatus is sexually dimorphic and have highly correlated growth characteristics and aging phenotypes



## **Methods**





## **Results and Conclusion**

Pax7 produced an amplicon of 317 base pairs, which is validated in this gel at 68.5 degrees C.

Results	Future Research
<ul> <li>I was not able to validate Pax3 primers</li> <li>I did validate Pax7!</li> </ul>	<ul> <li>Validate Pax3     primer</li> <li>Clone plasmids</li> <li>qPCR</li> </ul>