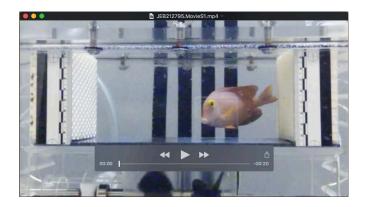
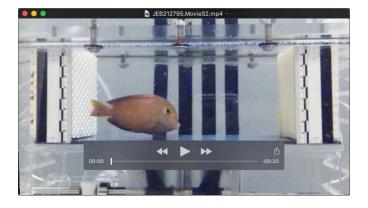
## Supplementary Information



Movie 1: Video of a goldring surgeonfish, Ctenochaetus strigosus, swimming in a bidirectional oscillatory flow with an average velocity of 3.0 BL s<sup>-1</sup> (peak velocity of 4.7 BL s<sup>-1</sup>) and a frequency of 0.3 Hz.



Movie 2: Video of a goldring surgeonfish, *Ctenochaetus strigosus*, swimming in a unidirectional oscillatory flow with an average velocity of 4.2 BL s<sup>-1</sup> (peak velocity of 5.2 BL s<sup>-1</sup>) and a frequency of 0.3 Hz.