

Supplementary Table 1: Expression of reference genes of *Odontesthes humensis* before (D0) and after (D1, D7 and D15) hypo and hyperosmotic shock. Equal letters represent no difference in a same column.

Treatment	Time points	Ct values of reference genes	
		<i>actb</i>	<i>h3a</i>
FW-BW transfer	D0	24.90 (± 0.69) ^a	20.43 (± 0.77) ^a
	D1	24.56 (± 0.55) ^a	20.32 (± 0.49) ^a
	D7	24.53 (± 0.77) ^a	20.02 (± 0.68) ^a
	D15	24.55 (± 0.74) ^a	20.00 (± 0.71) ^a
BW-FW transfer	D0	24.53 (± 0.90) ^a	20.51 (± 1.05) ^a
	D1	24.25 (± 0.59) ^a	20.36 (± 0.52) ^a
	D7	24.98 (± 0.40) ^a	20.24 (± 0.50) ^a
	D15	25.00 (± 0.99) ^a	21.00 (± 1.29) ^a

Abbreviations: Ct, cycle threshold values; D0, day zero; D1, day one; D7, day seven; D15, day fifteen; FW-BW, transfer from freshwater to brackish water; BW-FW, transfer from brackish water to freshwater.