S3 Table Flight response and spatial exploration data (mean ± SEM) for 7 rainbow trout isogenic lines. FR: flight response; SPE: spatial exploration. FR_Dist_Seq23: average distance travelled by each fish during Sequences 2 and 3 (after stimulus fall, in m); FR_Dist_diff21: difference in distance travelled between Sequences 2 and 1, in response to the stimulus fall (in m); SPE_Seq1_Z1 to Z4: average proportion of time spent by a fish in each zone during Sequence 1 (before the stimulus fall); SPE_Avg23_Z1 to Z4: average proportion of time spent by a fish in each zone during Sequences 2 and 3 (after the stimulus fall). SEM: Standard Error of the Mean. (1) Statistical tests are from Millot *et al.* 2014.

Line	FR_Dist_	FR_Dist_	SPE_Seq1_	SPE_Seq1_	SPE_Seq1_	SPE_Seq1_	SPE_Avg23_	SPE_Avg23_	SPE_Avg23_	SPE_Avg23_
	Seq23	diff21	Z1	Z2	Z3	Z4	Z1	Z2	Z3	Z4
A02h	367.3 (63.0)	-10.6 (26.0)	27.6 (5.2)	38.7 (4.3)	29.5 (4.7)	4.2 (1.3)	25.3 (4.9)	42.1 (4.9)	28.8 (4.0)	3.8 (0.8)
A03h	54.3 (20.4)	-34.4 (14.7)	10.7 (4.6)	40.1 (9.0)	34.3 (8.2)	15.0 (8.3)	1.8 (1.5)	31.2 (11.7)	47.3 (12.2)	19.6 (10.1)
AB1h	169.1 (45.9)	-31.7 (10.8)	20.1 (5.9)	25.9 (4.0)	48.0 (7.8)	5.9 (1.9)	15.9 (4.9)	35.1 (6.9)	45.2 (8.8)	3.8 (1.2)
AP2h	206.3 (67.7)	-30.4 (16.3)	13.5 (4.8)	38.9 (8.3)	41.2 (8.8)	6.4 (2.5)	15.8 (4.3)	41.8 (9.4)	37.3 (9.2)	5.1 (2.4)
B45h	90.8 (30.8)	-85.0 (19.9)	26.0 (8.0)	21.7 (3.6)	32.2 (6.1)	20.0 (10.3)	26.4 (7.0)	32.4 (7.2)	22.4 (4.7)	18.8 (10.4)
B61h	113.0 (28.5)	-82.4 (20.5)	26.4 (7.3)	25.6 (1.4)	43.0 (6.2)	5.0 (1.6)	28.5 (8.0)	27.5 (6.9)	38.9 (8.2)	5.1 (2.8)
R25h	212.2 (38.4)	-14.3 (13.9)	23.5 (5.7)	40.0 (6.1)	31.6 (6.2)	4.9 (2.1)	22.4 (4.5)	34.5 (6.3)	35.6 (7.6)	7.4 (4.4)
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Test ⁽¹⁾	F _{6,188} =6.42,	F _{6,125} =3.44,								

p<0.001

p<0.01