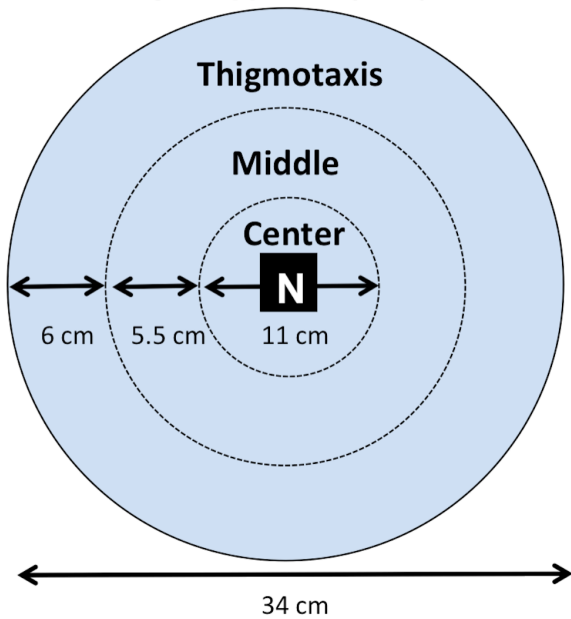
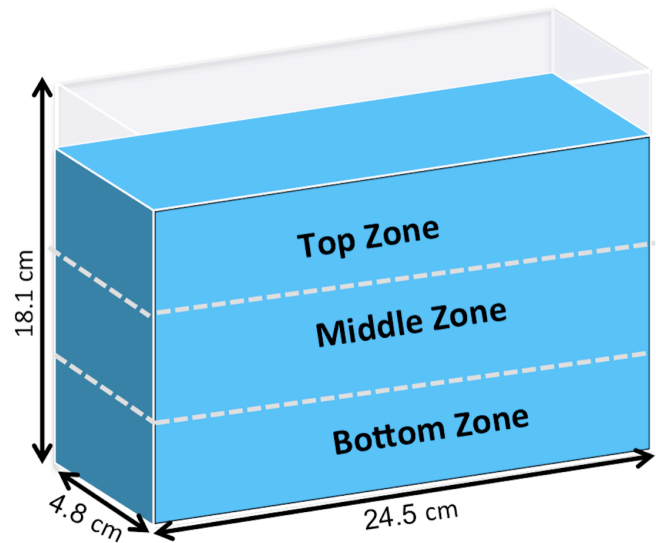


Supplementary Figure S1. After a 1-minute retention interval, 1-year old *prp2*^{-/-} zebrafish displayed familiar object preference with the object preference test, but 3-year old *prp2*^{-/-} zebrafish did not. **A.** The D3 discrimination index revealed that 1-year old *prp2*^{-/-} zebrafish displayed familiar object preference after a 1-minute retention interval, but 1-year old *prp2*^{+/+} zebrafish did not. # indicates significant difference from 0.5 (dotted line) with $p < 0.05$ using the one-sample t-test; $n = 13$ *prp2*^{+/+} fish, $n = 28$ *prp2*^{-/-} fish). **B.** At 3 years of age neither genotype (*prp2*^{+/+} or *prp2*^{-/-}) displayed object preference after a 1-minute retention interval as revealed by the D3 discrimination index ($n = 16$ fish/genotype).

A. Novel Object Approach (NOA) Test



B. Novel Tank Diving Test



Supplementary Figure S2. A. Schematic of the Novel Object Approach (NOA) setup. Fish were netted and placed into a circular arena, where they acclimated for 15 minutes. After this time, a novel object (N) was placed into the center of the arena and the activity of the fish was recorded for 5 minutes. The arena was virtually divided into center, middle, and thigmotaxis zones for data analysis. **B.** Schematic of the tank diving test. Fish were netted and placed into the novel tank (narrower and deeper than the home tank) and activity of the fish was recorded for 5 minutes. The tank was virtually divided into bottom, middle and top zones for data analysis.