

**Supplementary Table 9. Cerebellum gene expression in rats fed the control, ALA and DHA diet for 15 weeks.**

<b>Dietary Group</b>	<b>Control</b>	<b>ALA</b>	<b>DHA</b>
b actin	1 ± 0.12 <sup>ab</sup>	1.10 ± 0.08 <sup>a</sup>	0.98 ± 0.08 <sup>b</sup>
15 LOX	1 ± 0.61	0.63 ± 0.30	1.35 ± 1.00
BDNF	1 ± 0.22	0.98 ± 0.17	0.88 ± 0.22
DR D2	1 ± 0.21	1.13 ± 0.34	1.09 ± 0.35
EGFR	1 ± 0.16 <sup>a</sup>	1.26 ± 0.10 <sup>b</sup>	0.96 ± 0.30 <sup>a</sup>
HO1	1 ± 0.17 <sup>a</sup>	1.21 ± 0.14 <sup>b</sup>	0.99 ± 0.22 <sup>a</sup>
sPLA2	1 ± 0.77	0.86 ± 0.56	0.98 ± 0.72
cPLA2	1 ± 0.14	1.17 ± 0.25	0.98 ± 0.21
iPLA2	1 ± 0.15	1.02 ± 0.12	1.00 ± 0.14
PPAR <sub>g</sub>	1 ± 0.13	1.17 ± 0.24	1.07 ± 0.23
PGES3	1 ± 0.24	1.09 ± 0.25	0.97 ± 0.12
COX 2	1 ± 0.33 <sup>a</sup>	1.46 ± 0.42 <sup>b</sup>	1.41 ± 0.32 <sup>ab</sup>
RAR <sub>a</sub>	1 ± 0.23	1.07 ± 0.19	1.08 ± 0.18
RXR <sub>a</sub>	1 ± 0.12 <sup>a</sup>	1.15 ± 0.12 <sup>b</sup>	0.98 ± 0.14 <sup>a</sup>
RXR <sub>b</sub>	1 ± 0.14	1.04 ± 0.13	0.96 ± 0.15
SNC <sub>a</sub>	1 ± 0.14	0.96 ± 0.11	0.84 ± 0.21
TH	1 ± 1.50	1.60 ± 2.39	1.23 ± 1.64
TIA1	1 ± 0.15	0.99 ± 0.11	0.98 ± 0.13
TNF <sub>a</sub> R1 <sub>a</sub>	1 ± 0.11	1.12 ± 0.17	0.96 ± 0.16
TTR	1 ± 0.73 <sup>a</sup>	1.75 ± 0.42 <sup>b</sup>	0.72 ± 0.77 <sup>a</sup>
UCP2	1 ± 0.20 <sup>ab</sup>	1.17 ± 0.10 <sup>a</sup>	0.87 ± 0.14 <sup>b</sup>

Data are expressed as mean RQ ± SD. Different letters signify the means are significantly different (p<0.05) measured by One-way ANOVA followed by Tukey's test for multiple comparisons or Kruskal-Wallis test followed by Dunn's multiple comparison test (if variances were significantly different).