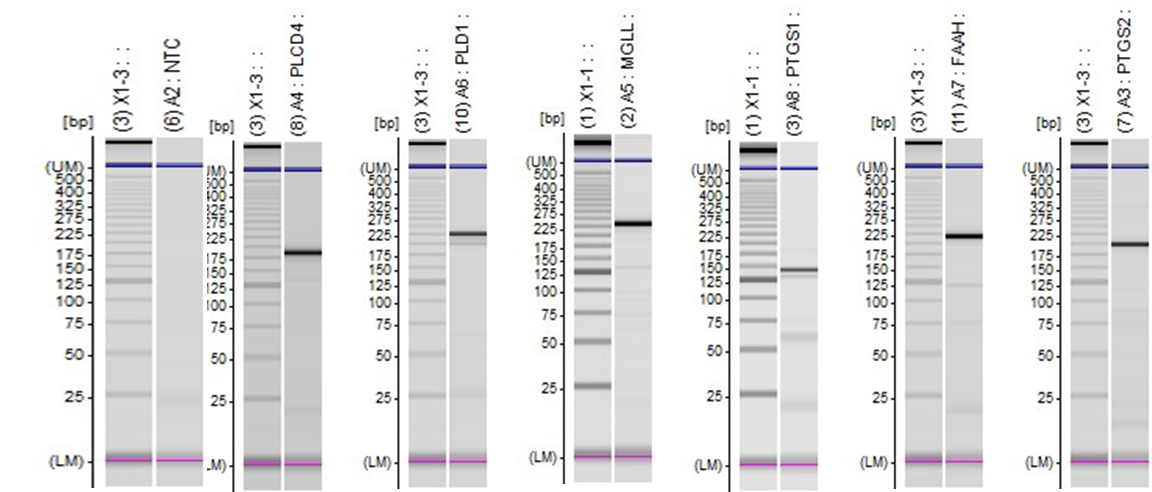
**A**

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|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Tukey's multiple comparisons test :Pla1a* | *Mean Diff.* | | *95% CI of diff.* | | | *Significant?* | | | *Summary* | | |
|  |  | |  | | |  | | |  | | |
| *E14.25 vs. E15.25* | *-1.761* | | *-168.4 to 164.9* | | | *No* | | | *ns* | | |
| *E14.25 vs. E17.25* | *1.148* | | *-165.5 to 167.8* | | | *No* | | | *ns* | | |
| *E14.25 vs. E20* | *-581.8* | | *-748.5 to -415.1* | | | *Yes* | | | *\*\*\*\** | | |
| *E15.25 vs. E17.25* | *2.909* | | *-163.8 to 169.6* | | | *No* | | | *ns* | | |
| *E15.25 vs. E20* | *-580.0* | | *-746.7 to -413.4* | | | *Yes* | | | *\*\*\*\** | | |
| *E17.25 vs. E20* | *-582.9* | | *-749.6 to -416.3* | | | *Yes* | | | *\*\*\*\** | | |
|  |  | |  | | |  | | |  | | |
| *Tukey's multiple comparisons test :Pla2g2a* | *Mean Diff.* | | *95% CI of diff.* | | | *Significant?* | | | *Summary* | | |
|  |  | |  | | |  | | |  | | |
| *E14.25 vs. E15.25* | *117.3* | | *-31.25 to 265.9* | | | *No* | | | *ns* | | |
| *E14.25 vs. E17.25* | *0.6701* | | *-147.9 to 149.3* | | | *No* | | | *ns* | | |
| *E14.25 vs. E20* | *-343.6* | | *-492.1 to -195.0* | | | *Yes* | | | *\*\*\*\** | | |
| *E15.25 vs. E17.25* | *-116.7* | | *-265.3 to 31.92* | | | *No* | | | *ns* | | |
| *E15.25 vs. E20* | *-460.9* | | *-609.5 to -312.3* | | | *Yes* | | | *\*\*\*\** | | |
| *E17.25 vs. E20* | *-344.2* | | *-492.8 to -195.6* | | | *Yes* | | | *\*\*\*\** | | |
| *Tukey's multiple comparisons test :Pla2g4a* | | *Mean Diff.* | | *95% CI of diff.* | *Significant?* | | | *Summary* | | |
|  | |  | |  |  | | |  | | |
| *E14.25 vs. E15.25* | | *36.35* | | *3.597 to 69.10* | *Yes* | | | *\** | | |
| *E14.25 vs. E17.25* | | *104.4* | | *71.63 to 137.1* | *Yes* | | | *\*\*\*\** | | |
| *E14.25 vs. E20* | | *89.31* | | *56.56 to 122.1* | *Yes* | | | *\*\*\*\** | | |
| *E15.25 vs. E17.25* | | *68.03* | | *35.28 to 100.8* | *Yes* | | | *\*\*\*\** | | |
| *E15.25 vs. E20* | | *52.96* | | *20.21 to 85.71* | *Yes* | | | *\*\** | | |
| *E17.25 vs. E20* | | *-15.07* | | *-47.82 to 17.68* | *No* | | | *ns* | | |
| *Tukey's multiple comparisons test :Pla2g7* | *Mean Diff.* | | *95% CI of diff.* | | | *Significant?* | | | *Summary* | | |
|  |  | |  | | |  | | |  | | |
| *E14.25 vs. E15.25* | *7.641* | | *-67.56 to 82.84* | | | *No* | | | *ns* | | |
| *E14.25 vs. E17.25* | *-7.541* | | *-82.74 to 67.66* | | | *No* | | | *ns* | | |
| *E14.25 vs. E20* | *-134.7* | | *-209.9 to -59.45* | | | *Yes* | | | *\*\*\** | | |
| *E15.25 vs. E17.25* | *-15.18* | | *-90.39 to 60.02* | | | *No* | | | *ns* | | |
| *E15.25 vs. E20* | *-142.3* | | *-217.5 to -67.09* | | | *Yes* | | | *\*\*\** | | |
| *E17.25 vs. E20* | *-127.1* | | *-202.3 to -51.91* | | | *Yes* | | | *\*\*\** | | |
| *Tukey's multiple comparisons test :Pla2g1b* | *Mean Diff.* | | *95% CI of diff.* | | | | *Significant?* | | | *Summary* | | |
|  |  | |  | | | |  | | |  | | |
| *E14.25 vs. E15.25* | *4.197* | | *-9.747 to 18.14* | | | | *No* | | | *ns* | | |
| *E14.25 vs. E17.25* | *5.874* | | *-8.071 to 19.82* | | | | *No* | | | *ns* | | |
| *E14.25 vs. E20* | *-9.658* | | *-23.60 to 4.287* | | | | *No* | | | *ns* | | |
| *E15.25 vs. E17.25* | *1.677* | | *-12.27 to 15.62* | | | | *No* | | | *ns* | | |
| *E15.25 vs. E20* | *-13.85* | | *-27.80 to 0.08962* | | | | *No* | | | *ns* | | |
| *E17.25 vs. E20* | *-15.53* | | *-29.48 to -1.587* | | | | *Yes* | | | *\** | | |
| *Tukey's multiple comparisons test :Ptges* | *Mean Diff.* | | *95% CI of diff.* | | | *Significant?* | | | *Summary* | | |
|  |  | |  | | |  | | |  | | |
| *E14.25 vs. E15.25* | *-17.10* | | *-315.4 to 281.2* | | | *No* | | | *ns* | | |
| *E14.25 vs. E17.25* | *-194.4* | | *-492.7 to 103.9* | | | *No* | | | *ns* | | |
| *E14.25 vs. E20* | *-847.2* | | *-1145 to -548.9* | | | *Yes* | | | *\*\*\*\** | | |
| *E15.25 vs. E17.25* | *-177.3* | | *-475.6 to 121.0* | | | *No* | | | *ns* | | |
| *E15.25 vs. E20* | *-830.1* | | *-1128 to -531.8* | | | *Yes* | | | *\*\*\*\** | | |
| *E17.25 vs. E20* | *-652.8* | | *-951.1 to -354.5* | | | *Yes* | | | *\*\*\*\** | | |
| *Tukey's multiple comparisons test :Tbxas1* | *Mean Diff.* | | *95% CI of diff.* | | | *Significant?* | | | *Summary* | | |
|  |  | |  | | |  | | |  | | |
| *E14.25 vs. E15.25* | *3.172* | | *-16.93 to 23.27* | | | *No* | | | *ns* | | |
| *E14.25 vs. E17.25* | *4.283* | | *-15.82 to 24.38* | | | *No* | | | *ns* | | |
| *E14.25 vs. E20* | *-36.77* | | *-56.87 to -16.66* | | | *Yes* | | | *\*\*\** | | |
| *E15.25 vs. E17.25* | *1.111* | | *-18.99 to 21.21* | | | *No* | | | *ns* | | |
| *E15.25 vs. E20* | *-39.94* | | *-60.04 to -19.84* | | | *Yes* | | | *\*\*\** | | |
| *E17.25 vs. E20* | *-41.05* | | *-61.15 to -20.95* | | | *Yes* | | | *\*\*\*\** | | |
| *Tukey's multiple comparisons test :Akr1b1* | | *Mean Diff.* | | *95% CI of diff.* | *Significant?* | | | *Summary* | | |
|  | |  | |  |  | | |  | | |
| *E14.25 vs. E15.25* | | *1179* | | *-90.49 to 2448* | *No* | | | *ns* | | |
| *E14.25 vs. E17.25* | | *1542* | | *272.7 to 2812* | *Yes* | | | *\** | | |
| *E14.25 vs. E20* | | *-1416* | | *-2685 to -146.1* | *Yes* | | | *\** | | |
| *E15.25 vs. E17.25* | | *363.2* | | *-906.3 to 1633* | *No* | | | *ns* | | |
| *E15.25 vs. E20* | | *-2595* | | *-3864 to -1325* | *Yes* | | | *\*\*\*\** | | |
| *E17.25 vs. E20* | | *-2958* | | *-4227 to -1688* | *Yes* | | | *\*\*\*\** | | |
| *Tukey's multiple comparisons test :Ptgis* | | *Mean Diff.* | | *95% CI of diff.* | *Significant?* | | | *Summary* | | |
|  | |  | |  |  | | |  | | |
| *E14.25 vs. E15.25* | | *264.9* | | *-167.4 to 697.2* | *No* | | | *ns* | | |
| *E14.25 vs. E17.25* | | *1124* | | *691.5 to 1556* | *Yes* | | | *\*\*\*\** | | |
| *E14.25 vs. E20* | | *1120* | | *687.4 to 1552* | *Yes* | | | *\*\*\*\** | | |
| *E15.25 vs. E17.25* | | *858.9* | | *426.6 to 1291* | *Yes* | | | *\*\*\** | | |
| *E15.25 vs. E20* | | *854.8* | | *422.5 to 1287* | *Yes* | | | *\*\*\** | | |
| *E17.25 vs. E20* | | *-4.094* | | *-436.4 to 428.2* | *No* | | | *ns* | | |

**Supplemental Figure S1**. **A)** Differential expression of other genes related to the endocannabinoid pathway *Pla1a, Pla2g2a, Pla2g4a, Pla2g7, Pla2g1b* (Phospholipase A group, involved upstream in synthesis of Arachidonic acid) and *Ptges, Tbxas1, Akr1b1, Ptgis* (Downstream genes involved in metabolism of PGH2 derivatives) screened in Microarray (RatRef-12 arrays Illumina). X- Axes depict Gestational Ages E14.25, E15.25, E17.25 and E20. Y-Axes are the Microarray Hybridization Signals. **B)** Statistical Analyses by One way ANOVA –Multiple Comparisons between all four gestational age groups E14.25, E15.25, E17.25 and E20. Significance was ascribed where gene expression was changed by < 2 (∗

𝑃 < 0.05;∗∗ 𝑃 < 0.005; ∗∗∗ 𝑃 < 0.001; ∗∗∗∗ 𝑃 < 0.0001; and ns 𝑃 > 0.05).



**Supplemental Figure S2:** Primer testing on PCR prior to qPCR experiments using Shimadzu MULTINA™.