

Supplemental Figures: PGE₂ is a UVR-inducible autocrine factor for melanocytes that stimulates tyrosinase activation

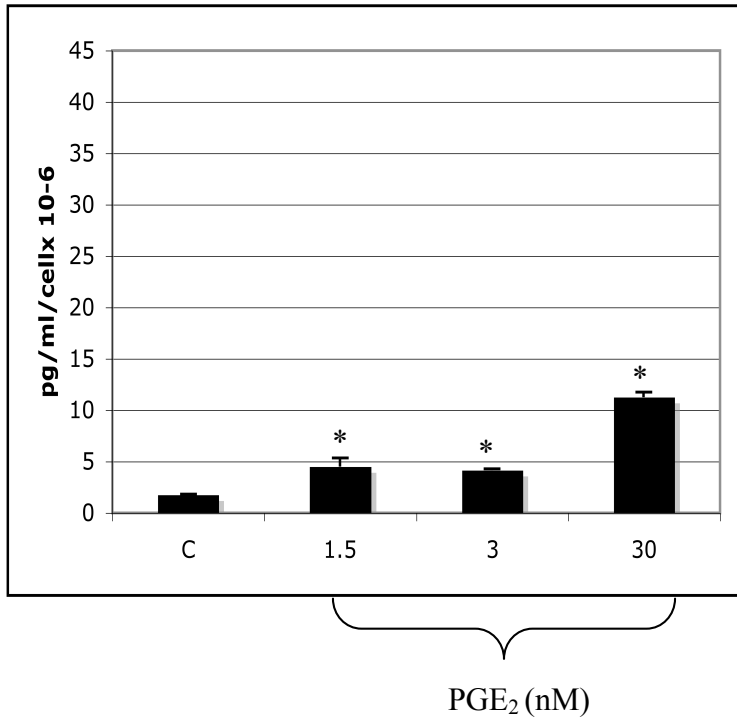


Figure S1. At doses as low as 1.5 nM, PGE₂ stimulated a statistically significant (*p<0.05) increase in cAMP compared with vehicle treated controls (4.4 pg/ml/cell x 10⁻⁶ compared with 1.8 pg/ml/cell x 10⁻⁶ respectively); a dose of 30 nM PGE₂ resulted in a cAMP response of 11 pg/ml/cell x 10⁻⁶. Each bar represents the averaged cAMP levels of 3 separate experiments +/-SD, in which each experiment was performed in duplicate wells. For each experiment, melanocytes cultured from a separate Caucasian donor were used (n=3). *p<0.05, compared with controls.

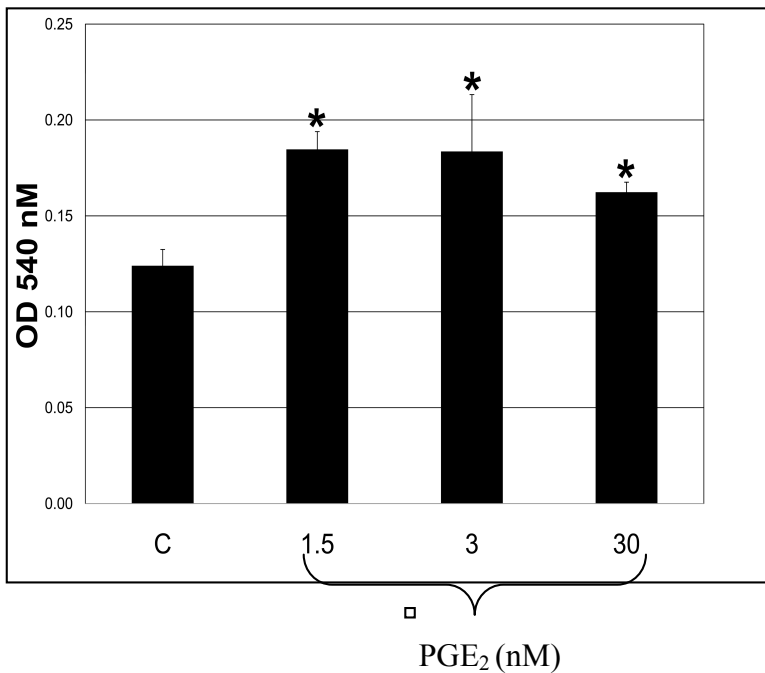


Figure S2: Melanocytes in -/- media were treated with PGE₂ for 24 hours or vehicle (“C”). BrDu was added for the last 18 hours, and uptake was assessed with a BrDu assay kit (Calbiochem, San Diego CA). Melanocyte proliferation was stimulated by PGE₂ (*p<0.001) at each concentration. Each bar represents the average of 3 experiments +/- standard deviation (SD). For each experiment, melanocytes cultured from a separate Caucasian donor were used(n=3).