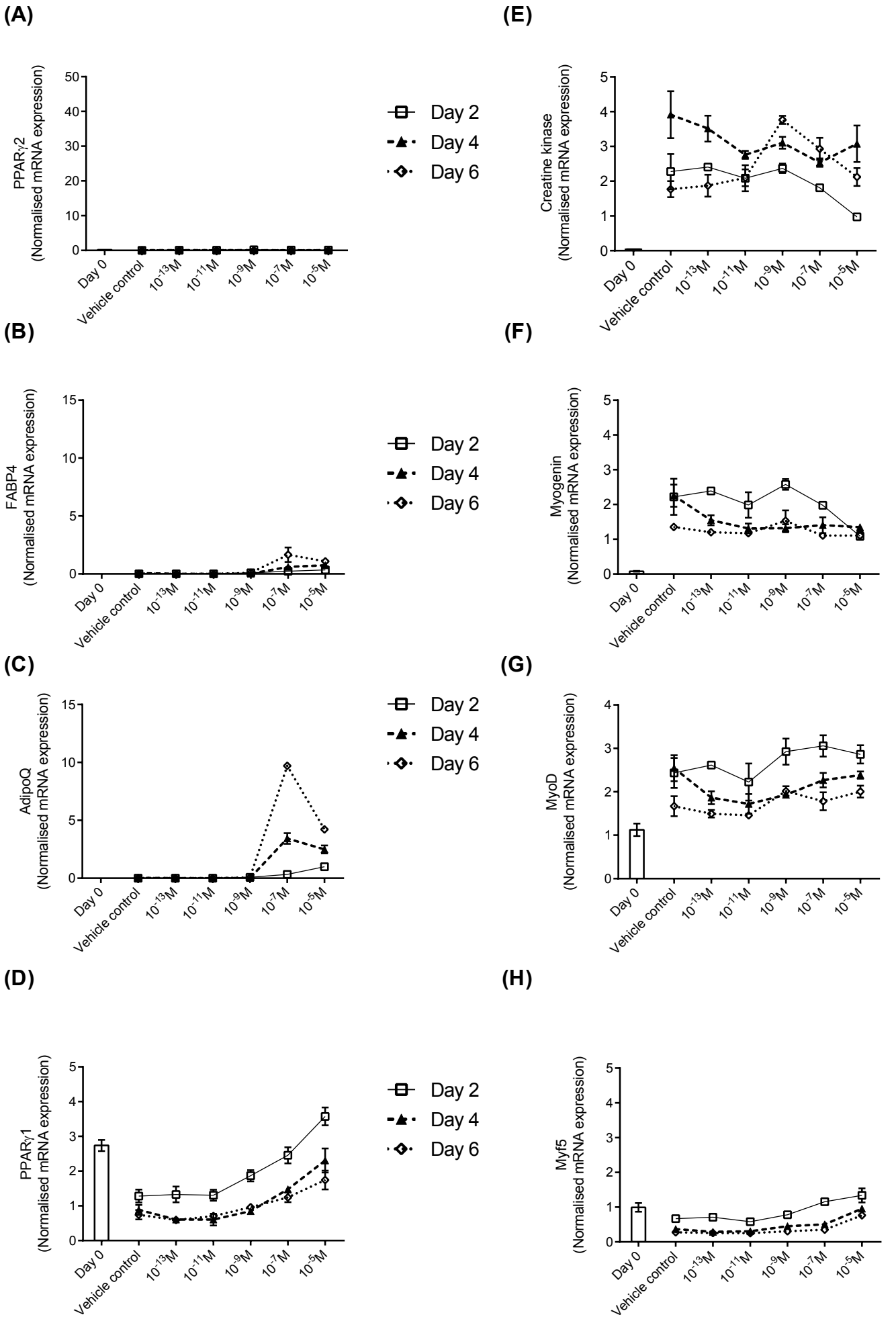
**Supplementary Figure. 1**



**Supplementary Figure 1**. Dose-dependent effects of $1,25(OH)_2D_3$ on expression of white adipocyte and skeletal muscle marker genes, determined by quantitative RT-PCR analysis. Levels of (A) *Pparγ2* (B) *Fabp4*, (C) AdipoQ/Adiponectin, (D*) PPARγ1*, (E) creatine kinase, (F) myogenin, (G) *MyoD* and (H) *Myf5* mRNAs were quantified in C2C12 cells cultured in the absence or presence of $10^{-13}$, $10^{-11}$, $10^{-9}$, $10^{-7}$ or $10^{-5}$ M $1,25(OH)_2D_3$ for 2, 4 or 6 days in myogenic differentiation media. Expression at day 0 (before differentiation media and $1,25(OH)_2D_3$ was added) is also included (but was very low for some genes). There were no significant effects on *Pparγ2* mRNA, but there were significant two-way interactions between Day of differentiation and $1,25(OH)_2D_3$ concentration for *Fabp4* and *AdipoQ* mRNA ($P$=0.001 and $P$<0.001 respectively). For *Pparγ1* mRNA, there was a significant effect of Day of differentiation ($P$<0.001) and a significant effect of $1,25(OH)_2D_3$ concentration ($P$<0.001). Similarly, there were significant two-way interactions between Day of differentiation and $1,25(OH)_2D_3$ concentration for creatine kinase and myogenin mRNA ($P$=0.002 and $P$=0.039 respectively). There was no significant two-way interaction for *MyoD* and *Myf5* mRNAs, but there were significant effects of Day of differentiation ($P$<0.001 for both) and $1,25(OH)_2D_3$ concentration ($P$=0.011 and $P$<0.001 for *MyoD* and *Myf5* respectively).