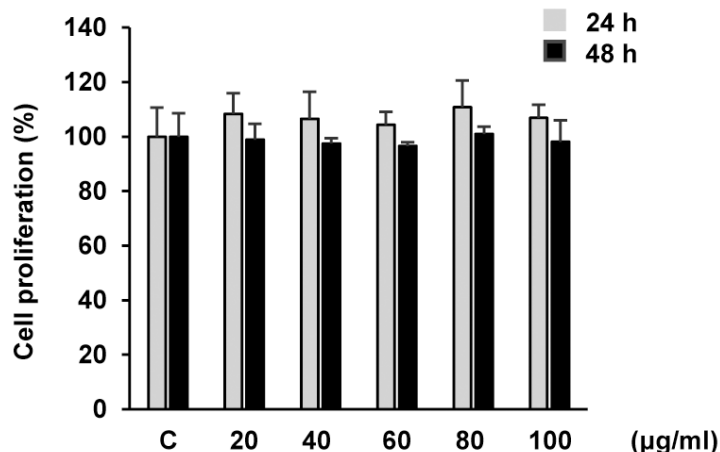
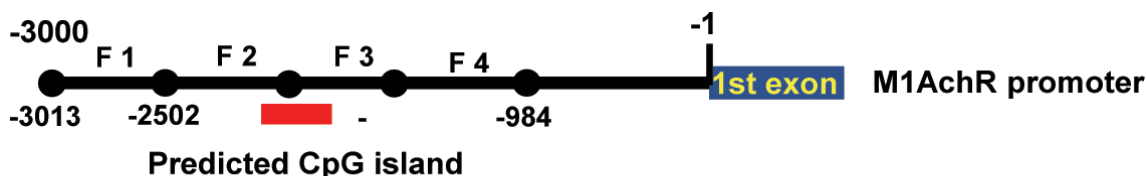


SUPPLEMENTARY FIGURES



Supplementary Figure 1. Effect of ascorbic acid on PSGC kl+/+ cell proliferation. PSGC kl +/+ cells were treated with ascorbic acid (20-100 µg/ml) for 24 or 48 hours. Cell proliferation was evaluated by MTT assay.



Total Methylation rate (%)

| | Fragment 1 | Fragment 2-3 (CpG island) | Fragment 4 | Total |
|-------------------|-------------|---------------------------|-------------|-------------|
| Untreated | 77.1 | 0.8 | 18.2 | 32 |
| AA treated | 78.8 | 1.0 | 18.2 | 32.7 |

Supplementary Figure 2. Evaluation of the DNA methylation level in the M1AChR promoter CpG region. PSGC kl -/- cells were treated with ascorbic acid for 24 hr. After genomic DNA isolation, the methylation status of the promoter of M1AChR was analyzed by using bisulfite sequencing. Numbers with a minus sign indicate the position of the fragment (F1-F4) relative to the transcription starting site. The red box represents a CpG island in the M1AChR promoter. The percentage of methylation indicates the proportion of methylated fragments, including CpG regions.