**Table S1. Primers used to make *gt* and *lac*Z in situ hybridization probes.**

|  |  |  |
| --- | --- | --- |
|  | **Primer** | **Primer Sequence (5'-3')** |
| ***gt*-T7** | Forward | AAG TAATACGACT CACTATAG GGCTATGAAAAA |
|  | Reverse | CAAGCCCCTGATGCACCACCAC |
| ***lac*Z-T7** | Forward | GGAAAACCCTGGCGTTACCCAACTTAATC |
|  | Reverse | AAGTAATACGACTCACTATAGCTCCGCCGCCTTCATACTGC |

**Table S2. Primers used in ChIP-qPCR assays.**

|  |  |  |
| --- | --- | --- |
| **Amplicon** | **Primer** | **Primer Sequence (5'-3')** |
| **4-endogenous *gt*** | Forward | TCTCGTGCATTAGCATGGTGTT |
|  | Reverse | CCTACCTGCTTCGTACCGCTTC |
| **4-Pelican-*gt*-wt** | Forward | TTTCTCGTGCATTAGCATTCACAA |
|  | Reverse | GCCTACCTGCTTCGTACTCAGAG |
| **4-Pelican-*gt*-mut** | Forward | TTTCTCGTGCATTAGCATTCACAA |
|  | Reverse | CCTACCTGCTTCGTACCGCTTC |
| **6-endogenous *gt*** | Forward | CGTATAGCCCAGCCCAATC |
|  | Reverse | GCTCATTATGGCGAAGGAACA |
| **6-Pelican-*gt*-wt/mut** | Forward | CACCAGGTTCCCGAGTTCTAC |
|  | Reverse | ATTGTGGCGAAGGCTGTATG |
| **9-endogenous *gt*** | Forward | CCGGGCCATGCAATAAAGTA |
|  | Reverse | CGCTTCCTCCAACTCCCTATATTC |
| **9-Pelican-*gt*-wt/mut** | Forward | CCGGGCCATGCAATTTTCAT |
|  | Reverse | CGCTTCCTCCAACTGGGATTTAAG |
| ***Pka-C1*** | Forward | CAATCAGCAGATTCTCCGGCT |
|  | Reverse | AGCCGCACTCGCGCTTCTAC |
| **SD10-**∆**gt1** | Forward (*en* enhancer) | ATTGGCATTGTTATTGCCCAG |
|  | Reverse (*en* promoter) | GGGCTTGTTAGGCAGCAATATG |
| **SD10-PRE1.1-wt/mut** | Forward (within PRE1.1) | GAGCGGGACAGAGTCAGAAG |
|  | Reverse (*en* promoter) | GGGGCTTGTTAGGCAGCAAT |

**Table S3. Primers used in qRT-PCR.**

|  |  |  |
| --- | --- | --- |
| **Amplicon** | **Primer** | **Primer Sequence (5'-3')** |
| ***rp49*** | Forward | ATGACCATCCGCCCAGCATACA |
|  | Reverse | GTCGATACCCTTGGGCTTGCG |
| ***lac*Z** | Forward | GGAGTCTTCCTGGGTGTCTCTACGC |
|  | Reverse | CTTGTTGGTCAAAGTAAACGACATGGT |