**KEY:**

TATA DPE INR

MTE Dmv3 (Fitzgerald 2006) INR replacement from zen2

**Annotated TSS**

Mismatched consensus nucleotide

***zen2* promoter**

*D.melanogaster*

TCCGATCCGTCACGAAGGGCTTCTGGGGTATATAAGCAAATAAGGAGAATCTAA**A**GGTATCTAGTTAAAAAACATCGGCCACAGCGGTCAGAAGCCAACAAATCGCGCTCTTCAAGAAAAATGTTTGCCATTCA

*D.virilis*

CGATTCGCGACTATATTTACCTGCTGGGTATAAAAGTAAACCAGCGGCATGGAATTGCATCTAGTTAAAAAACAAATGTGTCACAGAACAGAAGTTCAAATAACTCTCGGCAATATGTACAACAATATGAATAC

***pb* promoter**

*D.melanogaster*

TGGATGCGGTGGCTGTCGCTTAGGCCACTCCTTGATACTGGGTCCCAAAATCCCAGTTCAGTGCGTTC**G**GTGCTATTGGATGGAATGGTTGTTGGCTGCTATCTAGCTCTCGGGAACCGCACGAAGCTCCCCAA

*D.virilis (DPEmm)*

TATAGTCGTACAAAATGCTCGTTCTTGGCCACTCCTTGCGACAAGTGCGGACAAGTTTCAGTGCGTTCGGTGCTATTGGATGAAATGGTTGGTTAAGAATCGTGCCCGCACGAAGCAGCGTCGTATTGCCCAAGCCGGAGGG

**Full synthetic core promoter (DSCP) sequence, FseI site to KpnI site (sequence from pBPGUw)**

GGCCGGCC GAGCTCGCCCGGGGATCGAGCGCAGCGGTATAAAAGGGCGCGGGGTGGCTGAGAGCATCAGTTGTGAATGAATGTTCGAGCCGAGCAGACGTGCCGCTGCCTTCGTTAATATCCTTTGAATAAGCCAACTTTGAATCACAAGACGCATACCAAAC

GGTACC

**Sequences replacing DSCP in pBPGUw (between FseI and KpnI sites)**

**Full *pb* sequence, for in between FseI and KpnI**

GGCCGGCC TGGATGCGGTGGCTGTCGCTTAGGCCACTCCTTGATACTGGGTCCCAAAATCCCAGTTCAGTGCGTTC**G**GTGCTATTGGATGGAATGGTTGTTGGCTGCTATCTAGCTCTCGGGAACCGCACGAAGCTCCCCAAAAGCCCTCTGTCTCGCTCTCG

GGTACC

***zen2*-like DSCP**

GGCCGGCC GAGCTCGCCCGGGGATCGAGCGCAGCGGTATAAAAGGGCGCGGGGTGGCTGAGAGCATATCTAGTGAATGAATGTTCGAGCCGAGCAGACGTGCCGCTGCCTTCGTTAATATCCTTTGAATAAGCCAACTTTGAATCACAAGACGCATACCAAAC

GGTACC

***bcd* promoter**

GGCCGGCC TTTTTAAATTACTCAAAAGAATGAACATCGAGGGAGGGCCGCCAATTGTGCCATCTCTAC**A**TCTCTTCGCTCATCCCTAAATAACGGCACTCTGCAGATGCGAAGCAGTGGATCGCAAAAACGCAAAATGTGGGCGAAATAAGTTCGCGAGCGTC

GGTACC