

**Table EV2: List of synthesized DNA sequences to generate constructs containing GT-rich promoters or their reverse complement sequence.**

sequence name	DNA sequence 5'-3'
<b>pCW24v2 background</b>	
GT_210_nt	<u>GTATTAATCAAGATCTGTGTGTGTGGT</u> GCTTTTTTCGTCTTTTTTGTGTGTGGGGCGAAGAAAATGTTTGTGTGT TCTTTCTCCCGTGTGTGTGCTTCCCCCTTTGTGCGTGCGTAGGGGGAGAGTTCCCCCTTTGGGGGGAAACTGTG TGTGGGGTTTGTGTGTGGGTGCGGGGGGGAAACTTTGTTTTGTCGGTGGTGTGTGTGTGGAGGGTTGTTG TTGGCGCGCCTACGGCCGGCC <u>GATCTCCCTATCAGT</u>
GT_206_nt	<u>GTTGTTGTTGGCGCGCCGCGTGTGTGTAATGTTTTTGGGGGGGGAGTTTATTTTTGGTGGGTGGTGGTGTGT</u> GTGTGCGTGCGTGTGTGTGTGTGTTTTGGGGGGGGTTTTCCCCCTTTGTTGCTGCTGTTTTTTGTTCCCCCTCCCCTGTG TGTGTGTGTGTTTTGTGCCTTTTCTTGTTGTGTGTGCCCCCTCCCCTGTTTTTTGTGTTTGTGTGGCCGG <u>CCGA</u> <u>TCTCCCTATCA</u>
fused GT_416_nt	GTGTGTGTGGTGTCTTTTTTCGTCTTTTTTGTGTGTGGGGCGAAGAAAATGTTTGTGTGTCTTTCTCCCGTGTGT GTGCTTCCCCCTTTGTGCGTGCGTAGGGGGAGAGTTCCCCCTTTGGGGGGAAACTGTGTGTGGGGTTTGTGTGT GTGGGTGCGGGGGGGGAAACTTTGTTTTGTCGGTGGTGTGTGTGTGGAGGGTTGTTGTTGGCGCGCCGCGTG TGTGTAATGTTTTTTGGGGGGGGAGTTTATTTTTGGTGGGTGGTGGTGTGTGTGCGTGCGTGTGTGTGTGTTTTGTTTT GGGGGGGGTTTTCCCCCTTTGTTGCTGCTGTTTTTTGTTCCCCCTCCCCTGTGTGTGTGTGTGTTTGTGCCTTTT CTTGTTTGTGTGTGCCCCCTCCCCTGTTTTTTGTGTTTGTGTGT
GT_210_nt_rc	<u>GTATTAATCAAGATCTAACAACAACCCTCCACACACAACACCACCGACAAAACAAAGTTTCCCCCCCCGCACCCA</u> CACAAACAACCCACACACAGTTTCCCCCAAAGGGGGAACTCTCCCCTACGCACGCACAAAGGGGGGAAGC ACACACACGGGAGAAAGAACAACAACATTTTCTTCGCCCCACACACAAAAAAGACGAAAAAAGCACCACACA CAC <u>GGCGCGCCTACGGCCGG</u>
GT_416_nt_rc	<u>GTATTAATCAAGATCTACAAACAACACAAAAACAGGGGAGGGGGACACACAAACAAGAAAAGGGCACAACA</u> CACACACACACAGGGGAGGGGGAACAACAAAAACAGCAGCAACAAGGGGGAAACCCCCCAAAAACAACAC GCACGCACACACACACCACCACCACCAAAAAATAAACTCCCCCCCCAAAAACATTACACACACGCGGGCGCGC

CAACAACAACCCTCCACACACAACACCACCGACAAAACAAAGTTTCCCCCCCCGCACCCACACAAACAAACCCC  
ACACACAGTTTCCCCCAAAGGGGGAAGTCTCCCCCTACGCACGCACAAAGGGGGAAGCACACACACGGGAGA  
AAGAACAACAAACATTTTCTTCGCCCCACACACAAAAAAGACGAAAAAAGCACCACACACACGGCCGGCCGA  
TCTCCCTATCA

**pCW24v4 background**

rRNA\_promoter AGTCGTATTAATCAGGTACCTCCCTATCAGTGATAGAGATCTCCCTATCAGTGATAGAGATTAGCTTTCCACCCA  
GCGCGGGTGCATTCTGGCTCTTATATACTTATTGTCATGACAGAGTATATTGACTGTGTTGATAAGGGACGG  
GTAAGTGTATTGAAGAGCCGATGCTTTTGACATGTTAGATATAATATGTTTTATTGTAAGTCAATACAACACACAA  
TAGGATAATAATGATAAAGTTAAAAAAGTATATATAGTAATAGAAATATATCTTATATAGGAAAGATTAAGCAGTAA  
AAGTAGCGCTTACGGCGTACGGTCCCTGAGTACTGAGTTTAAACATGTTCTCGTCCCGGGCTGCACGCGCCT

no\_promoter AGTCGTATTAATCAGGTACCTCCCTATCAGTGATAGAGATCTCCCTATCAGTGATAGAGATTAGCCCTGAGTACT  
GAGTTTAAACATGTTCTCGTCCCGGGCTGCACGCGCCT

GT\_210\_nt GCCCCGGTACGGGAGATCCCCTATAGTGAGTCGTATTAATCAAGATCTTCCCTATCAGTGATAGAGATCTCCCT  
ATCAGTGATAGAGATGTGTGTGTGGTGCCTTTTTTCGTCTTTTTTTGTGTGTGGGGCGAAGAAAATGTTTGTTGT  
CTTTCTCCCGTGTGTGTGCTTCCCCCTTTGTGCGTGCGTAGGGGGAGAGTTCCCCCTTTGGGGGGAACTGTGT  
GTGGGTTTGTGTGTGGTGCGGGGGGGAACTTTGTTTTGTGCGTGGTGTGTGTGTGGAGGGTTGTTGT  
TGCGCGCCTACGGCCGGCCTGAGTACTGAGTTTAAACATGTTCTCGTCCCGGGCTGCACGCGCCT

GT\_206\_nt GTTGTTGTTGGCGCGCCGCGTGTGTGTAATGTTTTTTGGGGGGGAGTTTATTTTTTGGTGGGTGGTGGTGTGT  
GTGTGCGTGCCTGTTTTGTTTTGGGGGGGTTTTCCCCCTTTGTTGCTGCTGTTTTTTGTTCCCCCTCCCCTGTG  
TGTGTGTGTTTTGTGCCCTTTTCTGTTTGTGTGTCCCCCTCCCCTGTTTTTTGTGTTTGTGGCCGGCCTG  
AGTACTGAGTT

fused GT\_416\_nt GTGTGTGTGGTGCCTTTTTTCGTCTTTTTTTGTGTGTGGGGCGAAGAAAATGTTTGTGTTGTTCTTTCTCCCGTGTGT  
GTGCTTCCCCCTTTGTGCGTGCGTAGGGGGAGAGTTCCCCCTTTGGGGGGAACTGTGTGTGGGTTTGTGTTGT  
GTGGTGCGGGGGGGAACTTTGTTTTGTGCGTGGTGTGTGTGTGGAGGGTTGTTGTTGGCGCGCCGCGTG  
TGTGTAATGTTTTTTGGGGGGGAGTTTATTTTTTGGTGGTGGTGGTGTGTGTGTGCGTGCCTGTTTTGTTTT  
GGGGGGGTTTTCCCCCTTTGTTGCTGCTGTTTTTTGTTCCCCCTCCCCTGTGTGTGTGTGTTTGTGCCCTTT  
CTTGTGTTGTGTGTCCCCCTCCCCTGTTTTTTGTGTTTGTGTTTGT

GT_210_nt_rc	<u>GTATTAATCAAGATCTTCCCTATCAGTGATAGAGATCTCCCTATCAGTGATAGAGATAACAACAACCCTCCACACA</u> CAACACCACCGACAAAACAAAGTTTCCCCCCCCGCACCCACACAAACAAACCCACACACAGTTTCCCCC GGGGAACTCTCCCCTACGCACGCACAAAGGGGGAAGCACACACACGGGAGAAAGAACAACAAACATTTTC TTCGCCCCACACACAAAAAAGACGAAAAAAGCACCACACACACGGCGCGCCTACGGCCGG
GT_416_nt_rc	<u>GTATTAATCAAGATCTACAAACAAACACAAAAACAGGGGAGGGGGACACACAAACAAGAAAAGGGCACAACA</u> CACACACACACAGGGGAGGGGGAACAAAAACAGCAGCAACAAAGGGGGAAACCCCCCCCCAAAAACAAACAC GCACGCACACACACACCACCACCCACCAAAAAATAAACTCCCCCCCCAAAAACATTACACACACGCGGCGCGC CAACAACAACCCTCCACACACAACACCACCGACAAAACAAAGTTTCCCCCCCCGCACCCACACAAACAAACCCC ACACACAGTTTCCCCCAAAGGGGGAAGTCTCCCCCTACGCACGCACAAAGGGGGAAGCACACACACGGGAGA AAGAACAACAACATTTTCTTCGCCCCACACACAAAAAAGACGAAAAAAGCACCACACACACGGCCGGCCGA <u>TCTCCCTATCA</u>

underscored sequences indicate InFusion overhangs