

Supplementary Data S1. Synthetic *pHRPE* promoter sequence ordered from Geneart (Thermo Fisher Scientific)

ATTB1-SacI-5xHRPE-SpeI-ATTB2

CAAATAATGATTTTATTTTGA CTGATAGTGACCTGTTGTTGCAACAAATTGATGAGCAATGCTTTTTTA
TAATGCCAACTTTGTACAAAAAGCAGGCTCCGCGGCCGCCCCCTTCACCGAGCTCTGAAATCAGGGTGAA
GAAAAACAGCGGCGGTTCTTGAATCAGGGTGAAGAAAAACAGCGGCGGTTCTTGAATCAGGGTGAAGAAA
AACAGCGGCGGTTCTTGAATCAGGGTGAAGAAAAACAGCGGCGGTTCTTGAATCAGGGTGAAGAAAAACA
GCGGCGGTTCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGAGGTATTTTTACAAC
AATTACCAACAACAACAACAACTAGTAAGGGTGGGCGCGCCGACCCAGCTTTCTTGTACAAAGTTG
GCATTATAAGAAAGCATTGCTTATCAATTTGTTGCAACGAACAGGTCCTATCAGTCAAATAAAATCAT
TATTTGCCATCCAGCT