

Supplemental Table 3: Oligonucleotides used in this study. Restriction sites are underlined, InFusion overhangs are italicized, stop codons are bolded and mutations are in lower case. All oligonucleotides were purchased from Integrated DNA Technologies.

Oligonucleotide ID	Sequence
PfEH1/2 into pPM2GT:	
NJS1	<i>CACTATAGAACTCGAGGATGGT</i> GCTGAAAAGATATG
NJS2	<i>TGTGCTGCACCTGGCCTAGGT</i> GTGGTACATCCATTTTTATC
NJS4	<i>CACTATAGAACTCGAGGAATGCCCTTATGAATACGG</i>
NJS5	<i>TGTGCTGCACCTGGCCTAGGT</i> GTTTTATATTGACCATTTTTATC
PfEH1/2 into pEOE and pTEOE:	
NJS160	<i>CGATTTTTCTCGAGATGAAAAAAGGAATGAAGAAATC</i>
NJS161	<i>ATGTGCTGCACCTGGCCTAGGT</i> GTGGTACATCCATTTTTATC
NJS162	<i>CGATTTTTCTCGAGATGAGAAATATTAATGGGTTC</i>
NJS163	<i>ATGTGCTGCACCTGGCCTAGGT</i> GTTTTATATTGACCATTTTTATC
NJS299	<i>CGATTTTTCTCGAGATGTCAGTTCACGAAAGGATACG</i>
NJS300	<i>ATGTGCTGCACCTGGCCTAGGT</i> TACAAATATATTATTTATCCAGTCAG
NJS301	<i>CGATTTTTCTCGAGATGCTCAATTTTAGGAGGTGGAG</i>
NJS302	<i>ATGTGCTGCACCTGGCCTAGGT</i> GGATATATATTATTAAGCC
Mutagenesis of pTEOE_EH1:	
NJS524	GAGGAAATTAATTAAGATATTTAAGTGA AAAT GAAAAAATGATATATGTG
NJS525	GAGGAAATTAATTAAGATATTTAAGTGAAGATGCATATGATGGTGTG
NJS526	GAGGAAATTAATTAAGATATTTAAGTGAACACCAAAATTTTTACTGGATAG
NJS527	GAGGAAATTAATTAAGATATTTAAGTGAACCTAGGCCAGGTGCAGCACAT
NJS528	GAATATAAGGAAAAATGTTACATTAAGTATGAACCTAGGCCAGGTGCAGCACAT
PfEH1/2 into pET28a:	
NJS49	<i>GTGCCGCGCGGCAGCCATATGACGGAATTAATAAGAGGTC</i>
NJS50	<i>GTGGTGGTGGTGTCTCGAGCTATGTGGTACATCCATTTTTATC</i>
NJS55	<i>GTGCCGCGCGGCAGCCATATGGTAATTAAGATGGTATAGG</i>
NJS56	<i>GTGGTGGTGGTGTCTCGAGCTATGTTTTATATTGACCATTTTTATC</i>
NJS219	<i>GAAGGAGATATACCATGGGAAGTGAACGGAATTAATAAGAGGTC</i>
NJS220	<i>GTGGTGGTGGTGTCTCGAGTGTGGTACATCCATTTTTATC</i>
NJS221	<i>GAAGGAGATATACCATGGGATGTGATGTAATTAAGATGGTATAGG</i>
NJS222	<i>GTGGTGGTGGTGTCTCGAGTGTTTTTATATTGACCATTTTTATC</i>
Mutagenesis of pET28a_EH1/2:	
NJS124	GGAATTTTATTTGATTGGTGGTgCAATGGGTTGTTTAATAGCTGC
NJS 125	GCAGCTATTAACAACCCATTGcACCACCAATCAAATAAAATTCC
NJS 128	CCTACTTTAATATTTTGTGGAGAAAAAGcTGATCTTTATGATGACGATG
NJS 129	CATCGTCATCATAAAGATCAgCTTTTTCTCCACAAAATATTAAGTAGG
NJS 130	CATATTATTGTTTTCAAAGGAGAAAAATgcTTATATAATACCTTCAAGAAC
NJS 131	GTTCTTGAAGGTATTATATAAgcATTTTCTCCTTTGAAAACAATAATATG
NJS134	GGAACATATGGAATAACAAATGCTGAACTTATTGGAAATAAAGACAAC
NJS 135	GTTGTCTTTATTTCCAATAAGTTCAGCATTGTTATTCCATATGTTCC
NJS170	GGAATTTTATTTGATTGGTGGTgatATGGGTTGTTTAATAGCTGC

NJS171	GCAGCTATTAACAACCCATatcACCACCAATCAAATAAAATTCC
PfEH1/2 into pUF-TK:	
NJS245	<i>CAGGCGCCAGCCTAGGCATATGTTTTGGTTTGTATTG</i>
NJS246	<i>ATCGATAACTCCATGGCTTTATCTCCACCAAGCCCATG</i>
NJS247	<i>AGATCTTCGGACTAGTGATTGGTGGTTCAATGGGTTG</i>
NJS248	<i>CAATGGCCCCTTTCCGCGGGTACATCCATTTTTATCAACAG</i>
NJS249	<i>CAGGCGCCAGCCTAGGCTTAAGTACATATGATAAAC</i>
NJS250	<i>ATCGATAACTCCATGGCTCAGATTCCGGATTCCCCTTC</i>
NJS251	<i>AGATCTTCGGACTAGTCATTTGAACCTAGAAAATAAGG</i>
NJS252	<i>CAATGGCCCCTTTCCGCGGGTAAACATACATCATTGGGCG</i>
qRT-PCR:	
EH1_primer1	TGGTGGTTCAATGGGTTGT
EH1_primer2	CCTAACATACCCACAGGTGATAAA
EH1_probe	5' 6-FAM/AGCTGCTGC/ZEN/ATTTGCACAGAAAT/3' IABkFQ
EH2_primer1	CACAATCCATACTTGGTTGCATAA
EH2_primer2	CCTCTGAACAATATTCATCATCCTTTC
EH2_probe	5' 6-FAM/TTTGCATAT/ZEN/GTGGAGTGCTCATCA/3' IABkFQ
Actin_primer1	TGTTGACAACGGATCAGGTAAT
Actin_primer2	CCTGGATTCTTTGGTCTTCCTAC
Actin_probe	5' 6-FAM/AGGAGTTGC/ZEN/AGGAGATGATGCACC/3' IABkFQ

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