

**Table S1. Oligonucleotide primers.**

Name, sequence and application of the oligonucleotide pri-mers we used in this study. Restriction endonuclease-recognition sites are underlined.

Primer name	Primer sequence (5'-3')	Application
Gly-H fw	GTC <u>ACGCGT</u> CCAGCAGAACTGAAATACA	Cloning into the <u>MluI</u> and <u>NheI</u> sites of pTre2hyg-Flag-MCS with the endogenous STOP codon
Gly-H rev	CAGGCTAGCGCTCGTCTTCTAACAATG	
Gly-H fw	GTC <u>ACGCGT</u> CCAGCAGAACTGAAATACA	Cloning into the <u>MluI</u> and <u>NheI</u> sites of pTre2hyg-Flag-MCS-Stab without the endogenous STOP codon
Gly-H rev2	CAGGCTAGCCTCGTCTTCTAACAATG	
ERD10 fw	GCA <u>ACGCGT</u> GCAGAAGAGTACAAGAACA	Cloning into the <u>MluI</u> and <u>NheI</u> sites of pTre2hyg-Flag-MCS with the endogenous STOP codon
ERD10 rev	AGCGCTAGCCATCAGACACTTTTTCTTT	
ERD10 fw	GCA <u>ACGCGT</u> GCAGAAGAGTACAAGAACA	Cloning into the <u>MluI</u> and <u>NheI</u> sites of pTre2hyg-Flag-MCS-Stab without the endogenous STOP codon
ERD10 rev2	AGCGCTAGCATCAGACACTTTTTCTTT	
SP2 sense	CCGAGAGCATGAGGGAGGAGTACAGGAAGGAGG GCAGCAGCC	After annelaing, the 5x-SP2 sequence was cloned into the pTre2hyg-CTH-StabΔ upstream to the STOP codon.
SP2 antisense	TCGGGGCTGCTGCCCTCCTTCTGTACTCCTCCCT CATGCTC	
c-Myc fw-jet	GATGCCCTCAACGTGAACTTCAC	Cloning into the the pJet 1.2/blunt vector
cMyc rev-jet	GTTATGCACCAGAGTTTCGAAGCT	
c-Myc fw	CAT <u>ACGCGT</u> ATGCCCTCAACGTGAACTTCAC	Cloning into the <u>MluI</u> and <u>ClaI</u> sites of pTre2Hyg-Flag-MCS with the endogenous STOP codon
c-Myc rev	GTCATCGATTATGCACCAGAGTTTCGAAGCT	
c-Myc fw	CAT <u>ACGCGT</u> ATGCCCTCAACGTGAACTTCAC	Cloning into the <u>MluI</u> and <u>ClaI</u> sites of pTre2Hyg-Flag-MCS-Stab or pTre2hyg-Flag-MCS-2xStab without the endogenous STOP codon
c-Myc rev2	GTCATCGATTGCACCAGAGTTTCGAAGCT	
hEPO fw	GAAT <u>ACGCGT</u> ATGGGGGTGCACGAATGTC	Cloning into the <u>MluI</u> and <u>NheI</u> sites of pTre2hyg to generate pTre2hyg-hEPO (with endogenous STOP)
hEPO rev	ATTAGCTAGCTCATCTGTCCCCTGTCCTGCA	
hEPO fw	GAAT <u>ACGCGT</u> ATGGGGGTGCACGAATGTC	Cloning into the <u>MluI</u> and <u>NheI</u> sites of pTre2hyg-MCS-2xStab to

hEPO rev2	ATTAGCTAGCTCTGTCCCCTGTCCTGCA	generate pTre2hyg-hEPO-2xStab (without endogenous STOP)
hEPO fw	GAATACGCGTATGGGGGTGCACGAATGTC	Cloning into the <u>MluI</u> and <u>NheI</u> sites of pTre2Hyg to generate pTre2hyg-hEPO-Stab and its derivatives
hEPO-Stab <sup>Dm1-15</sup> rev	AATGCTAGCCTATTTTTTTTGCAGTCTTTGCCGTC GCTTTTTTGTCTTGTCTTTCTGTCCCCTGTCCT GCA	
hEPO-Stab <sup>Dm1-13</sup> rev	AATGCTAGCCTATTTTTTTTGCAGTCTTTGCCGTC GCTTTTTTGTCTTTCTGTCCCCTGTCCTGCA	
hEPO-Stab <sup>Dm1-10</sup> rev	AATGCTAGCCTATTTTTTTTGCAGTCTTTGCCGTC GCTTTTTTCTGTCCCCTGTCCTGCA	
hEPO-Stab <sup>Dm1-9</sup> rev	CCTGCTAGCCTATTTTTTTTGCAGTCCTTGCCGT CGCTTCTGTCCCCTGTCCTGCA	
hEPO-Stab <sup>Dm1-8</sup> rev	CCTGCTAGCCTATTTTTTTTGCAGTCCTTGCCGT CTCTGTCCCCTGTCCTGCA	
hEPO-Stab <sup>Dm8-10</sup> rev	CCTGCTAGCCTAGTCGCTCTTTCTGTCCCCTGTCC TGCA	
hEPO-Stab <sup>Dm8-11</sup> rev	CCTGCTAGCCTAGTCGCTCTTTTTTCTGTCCCCTG TCCTGCA	
hEPO-Stab <sup>Dm8-12</sup> rev	CCTGCTAGCCTAGTCGCTCTTTTGTCTCTGTCCC CTGTCTGCA	
hEPO-Stab <sup>Dm1-7</sup> rev	CCTGCTAGCCTATTTTTTTTGCAGTCCTTGCCCT GTCCCCTGTCCTGCA	
hEPO-Stab <sup>Dm1-5</sup> rev	AATGCTAGCCTATTTTTTTTGCAGTCTCTGTCCCC TGCTCTGCA	
hEPO-Stab <sup>Dm1-3</sup> rev	AATGCTAGCCTATTTTTTTTGTCTGTCCCCTGTCCT GCA	
hEPO-Stab <sup>Dm1-13-KR</sup> rev	AATGCTAGCCTAACGGCGTTGCGAGTCACGGCCG TCGCTACGGCGGTGCGTCTGTCCCCTGTCCTGC A	
hEPO-Stab <sup>Dm1-13-KA</sup> rev	AATGCTAGCCTATGCGGCTTGCGAGTCAGCGCCG TCGCTCGCTGCGTGGCTCTGTCCCCTGTCCTGC A	
hEPO-Stab <sup>Dm1-13-DA</sup> rev	AATGCTAGCCTATTTTTTTTGCAGGCCCTTGCCGG CGCTCTTTTGGCCTTCTGTCCCCTGTCCTGCA	
hEPO fw	GAATACGCGTATGGGGGTGCACGAATGTC	Cloning into the <u>MluI</u> and <u>NheI</u> sites of pTre2hyg to generate pTre2hyg-hEPO-Stab <sup>Hs1-13</sup>
hEPO-Stab <sup>Hs1-13</sup> rev	AATGCTAGCTCACTTCTGTCTTCCTCCTTCTTGTC CTTCTTGCCGTCCTTTCTGTCCCCTGTCCTGCA	
qPCR-actin5c_fw	ATGCCTCTGGTCGTACCACT	qPCR primers
qPCR-actin5c_rev	TCAGGTCCCGGCCAGCCA	
qPCR-CTH_fw	TCGGTGTAGATCCCAACGAGGA	
qPCR-CTH_rev	ATCTCCGCCAGTCGGTGGA	
qPCR-Flag_fw	GGACGACGATGACAAGCAGCTGAC	
qPCR-Gly-H_Rev	GCCGACGGCACTTACACCGT	

qPCR-ERD10_Rev	GCGCCGATGATTCCTCTGTTGCA
qPCR-c-Myc_rev	CTGTACGGAGTCGTAGTCGAGG
qPCR-hEPO_fw	ATGGGGGTGCACGAATGTCC
qPCR-hEPO_rev	CTCGGCTGTCACAGATGAGGCGT