

Supplementary table 1. The cDNA sequences of the vector inserts

Vector Names	Synthetic Sequences
5×UASg promoter	<p>CGGAGTACTGTCCTCCGAGCGGAGTACTGTCCTCCGAGC GGAGTACTGTCCTCCGAGCGGAGTACTGTCCTCCGAGCG GAGTACTGTCCTCCGAGCGGAGACTCTAGACTAGGCGTG TACGGTGGGAGGCCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGATCGC</p>
Gal4	<p>ATGAAGCTGCTGAGCAGCATCGAGCAGGCCTGCGACAT CTGCAGGCTGAAGAAGCTGAAGTGCAGCAAGGAGAAGC CCAAGTGCGCCAAGTGCCTGAAGAACAACCTGGGAGTGC AGGTACAGCCCCAAGACCAAGAGGAGCCCCCTGACCAG GGCCACCTGACCGAGGTGGAGAGCAGGCTGGAGAGGC TGGAG</p>
VVD	<p>CACACCCTGTACGCCCCCGGCGGCTACGACATCATGGGC TACCTGATCCAGATCATGAAGAGGCCCAACCCCCAGGTG GAGCTGGGCCCCGTGGACACCAGCGTGGCCCTGATCCTG TGCGACCTGAAGCAGAAGGACACCCCCATCGTGTACGC CAGCGAGGCCTCCTGTACATGACCGGCTACAGCAACGC CGAGGTGCTGGGCAGGAACTGCAGGTTCTGCAGAGCC CCGACGGCATGGTGAAGCCCAAGAGCACCAGGAAGTAC GTGGACAGCAACACCATCAACACCATGAGGAAGGCCAT CGACAGGAACGCCGAGGTGCAGGTGGAGGTGGTGAAC TCAAGAAGAACGGCCAGAGGTTCGTGAACTTCTGACC ATGATCCCCGTGAGGGACGAGACCGGCGAGTACAGGTA CAGCATGGGCTTCCAGTGCGAGACCGAG</p>
P65	<p>CAGTACCTGCCGACACCGACGACAGGCACAGGATCGA GGAGAAGAGGAAGAGGACCTACGAGACCTTCAAGAGCA TCATGAAGAAGAGCCCCTTACGCGGCCCCACCGACCCCA GGCCCCCCCCCAGGAGGATCGCCGTGCCAGCAGGAGC AGCGCCAGCGTGCCCAAGCCCGCCCCCAGCCCTACCCC TTCACCAGCAGCCTGAGCACCATCAACTACGACGAGTTC CCCACCATGGTGTTCCTCCAGCGGCCAGATCAGCCAGGCC AGCGCCCTGGCCCCCGCCCCCCCCCAGGTGCTGCCCCAG GCCCCCGCCCCCGCCCCCGCCCCCGCCATGGTGAAGCGC CTGGCCCAGGCCCCCCGCCCCCGTCCCGTGGTGGCCCC</p>

	GGCCCCCCCCAGGCCGTGGCCCCCCCCGCCCCAAGCCC ACCCAGGCCGCGAGGGCACCTGAGCGAGGCCCTGCT GCAGCTGCAGTTCGACGACGAGGACCTGGGCGCCCTGCT GGGCAACAGCACCGACCCCGCCGTGTTACCGACCTGGC CAGCGTGGACACGAGGCCATCACCAGGCTGGTGACCGG CGCCAGAGGCCCCCCGACCCCGCCCCGCCCCCTGGG CGCCCCGGCCTGCCAACGGCCTGCTGAGCGGCGACG AGGACTTCAGCAGCATCGCCGACATGGACTTCAGCGCCC TGCTG
MALAT1-sgRNA	GGTTATAGCTTGACAAGCAATTAAC TTT
EGFP-sgRNA	GCGGGCAGGCCGCTCTCGTCGCTCTCCA
NC sgRNA	TAGATTGCTGTTCTACCAAGTAATCCAT

Note: Yellow highlights show the cDNA sequences of the repeat upstream activating sequence (UAS).

Red designates the cDNA sequence of the TATA box.

Supplementary table 2. The primers used in this study

Name	Sequence
MALAT1-F	AAAGCAAGGTCTCCCCACAAG
MALAT1-R	GGTCTGTGCTAGATCAAAAGGCA
EGFP-F	AUGGUGAGCAAGGGCGAGGAGC
EGFP-R	CUUGUACAGCUCGUCCAUGCCG
GAPDH-F	CGTCTCTGCTCCTCCTGTTC
GAPDH-R	ATCCGTTGACTCCGACCTTCAC

Note: F, forward primer; R, reverse primer.