

Gene	Forward primer	Reverse primer	Category
Tet1	GAGCCTGTTCTCGATGTGG	CAAACCCACCTGAGGCTGTT (inner)	qPCR
Tet2	TGTTGTTGTGAGGGTGAGAATC	TCTTGCTTCTGGCAAACCTACA (inner)	qPCR
Tet3	CCGGATTGAGAAGGTCATCTAC	CTGGTAGAGGGTGTCCCAA (inner)	qPCR
Stat3	AGCTGGACACACGCTACCT	AGGAATCGGCTATATTGCTGGT (inner)	qPCR
Gapdh	GGTGAAGGTCGGTGTGAACG	CTCGCTCCTGGAAGATGGTG (inner)	qPCR
Stat3	AAATGTTTAAGTGGGTGATATTTG	CTAAAACTTTATACTCCTCCCTCC	BS-PCR
Stat3	SCf: GACCGCCTAAGTGGCTGATT	SCr: CCTCCCTGAGTTGGCTGTTC	ChIP-PCR
Tet1	UUGUGUCACGGCAUCUCGdTdT	GCAGAUGGCCGUGACACAAdTdT	siRNA
Tet2	UUGCUCGAGCAUUAUUGdTdT	GCAAUAUGCUCGGAGCAAdTdT	siRNA
Scr1	UUCUCCGAACGUGUCACGUDdTdT	ACGUGACACGUUCGGAGAAAdTdT	siRNA
Tet1	sif1: CGGCAGATGGCCGTGACACAA ATCGAAATTTGTGTACGGCCATCT GCTTTTT	sir1: CGCGAAAAAGCAGATGGCCGTG ACACAAATTTGATTTGTGTACGGC CATCTGC	vector (KD)
Tet3	sif3: CGGCTCCGGTACCATCTCCTAT TCGAAAATAGGAGATGGTACCGGAG CTTTTT	sir3: CGCGAAAAAGCTCCGGTACCATC TCCTATTTTGAATAGGAGATGGTAC CGGAGC	vector (KD)
Scr2	CGGCTTCTCCGAACGTGTACGTTTT	CGGCTTCTCCGAACGTGTACGTTTT	vector (KD)
Tet1	f1: AGGTTTAAACTACGGATGGAAGC TGCACCCTGTGACTGTGATGG f2: AGAATTGGCTACAGTATTAGCTC f3: CCGAGGTGGCTGCTCATCCTCAC	r1: CATCTGCTTGTAAGTGGAGCTAA r2: GCTGTGGGAAGAGACTGGTGAGG r3: GTAAGCTTAGCCCTGTCTATTAGAC CCAACGATTGTAGGGTC	vector (OE)
Tet3	f1: AGGTTTAAACTACGGATGGAGTT CCCTACCTGCGATTGTGT f2: CAGATCCCTGAGGACGAGCAACT f3: CGAGCTGCCAGGTGAGGCTGTT f4: TAGACAAAGCCTGGCAAGCCTTTG	r1: GAGGGGCAGCACGTGCAGTTGCT r2: GTGGTTGTCTGTGGCAACAGCCT r3: GCTCAAGGGCATGCCAAAGGCTT r4: GTAAGCTTAGCCCTGTCTACTAGAT CCAGCGGCTGTAGGGGCCA	vector (OE)
Stat3	S3-P6F1: CGCTCGAGAAGCCAAGCA TATACACGTACC S3-P6F2: CGCTCGAGAAGCCAAGCA TATACACGTACC	S3-P6R1: CCAAGCTTCGGTTAGGGCT CGTTCCCTCCG S3-P6R2: CCAAGCTTAAGGAATGGCC AGCTGGC	reporter
Tet1	GGCTTGCAGACACTGATGAA	GAAGGCATTGTGCAGTGGAGA (outer)	single-cell PCR
Tet3	CTCATGGAGGATCGGTATGGA	GTCATCATTGAGGCCACATCT (outer)	
Stat3	ACAGTCGAGACCCCTGACT	CAGCAGAACTGCTTGATTCT (outer)	
NeuN	AGACAGACAACCAGCAACTC ACGATCGTAGAGGGACG	CTGTTCTACCACAGGGTTTAG (outer) TTGGCATATGGGTTCCAGG (inner)	
Gapdh	AGGTTTCATCAGGTAAGCTCAG	ACCAGTAGACTCCACGACAT (outer)	

Table S1. Primer, siRNA and oligo sequences in this study.

Outer and inner respectively present the outer and inner PCR primer in single-cell PCR.

KD, knockdown; OE, overexpression.