

TET1 Primers (cDNA accession number: NM_030625.2)

Genomic Coordinates of

Target Region	Forward/Reverse	Primer Sequence
70001979–70002359	Forward	CTGGGCAACAGAATGAGACC
	Reverse	GTCGCCTGCTAAGAGAGGTG
70002360–70002739	Forward	AGGGAGCCAACAAAATGTG
	Reverse	TGGGGAACCACTGGTATCAT
70002740–70003119	Forward	GGTCGTAGCCAAATCCAAA
	Reverse	CAGGAAGGAAGACAGGCAAG
70003120–70003499	Forward	ATGATACCAGTGGTCCCCA
	Reverse	GACCAGCCTGAGAGAGTTGG
70003500–70003879	Forward	CTTGCCTGTCTTCCTTCCTG
	Reverse	CAAGTGTGAGCTGTCTCCA
70003880–70004015	Forward	CCAATCTCTCAGGCTGGTC
	Reverse	GCTAAGGCATCACTGCACAA
70030743–70030797	Forward	GCAAGCAAGATGGCTACCTC
	Reverse	GCAACACCACAAATGCAGAT
70074460–70074840	Forward	TCGCTGAATGTGTGAAAAGC
	Reverse	TGGGGAGGAATTCTCTGATG
70074841–70075220	Forward	GTAATGGCCCAAGTCAGA
	Reverse	AAGTTTTGGTGGCTCTCCCT
70075221–70075600	Forward	AGAATTCGGCAAGACATTGG
	Reverse	GGTATGGGTGCATCCTGAC
70075601–70075980	Forward	CATCAGAGAATTCCTCCCA
	Reverse	CAAATGTCGCATATTGTGCC
70075981–70076360	Forward	CATCAGTTGCCACCAAGAAA
	Reverse	GCAATGTTGGCAGTCTCTGA
70076361–70076740	Forward	GGCTCAAACGAGGTCCATTA
	Reverse	TATTTTTCCACTTGAGCGGG
70076741–70076768	Forward	TCAGAGACTGCCAACATTGC
	Reverse	TATTTTTCCACTTGAGCGGG
70081608–70081699	Forward	GTTAGGGGCAGGAAGAAAGG
	Reverse	ATGATGGGTGGCTCAGTAGG
70082263–70082357	Forward	CCCTTGACACTGCATACCCT
	Reverse	GCTCTGGAATAACAAGCTTCAAA
70096807–70097019	Forward	GTTGAGGCAGTGGAAAGTCC
	Reverse	TGCACCTGGTCACAGTGAAG
70102657–70102808	Forward	AACCGGTTCTTTAGGCATCC
	Reverse	CAGGGACAATTGGAATTTGG
70111161–70111251	Forward	TTAACCAACATCAGCCATGA
	Reverse	CAGCATTTTTGGAGGGTGAG
70112598–70112736	Forward	AGAACTTCATGAGGAAATTATTTTAA
	Reverse	TCATCACAGTATACGTAAGGACTGC
70116118–70116470	Forward	ATTGAACAGAGTTGGGTGGC
	Reverse	CAAGGCAAAGTCCAAACACA
70120570–70120950	Forward	CCAACCAACACAACATCAGC
	Reverse	GGGGTCATCAGATAGGGGTT
70120951–70121330	Forward	CTCCACTGAAGAATGACGCA
	Reverse	AGGCATTAAGAGGGGGAGAA
70121331–70121710	Forward	AACCCCTATCTGATGACCCC
	Reverse	AATACCCACCCCGTTTTGTT

TET2 Primers (cDNA accession number: NM_01127208.1)

**Genomic Coordinates of
Target Region**

Forward/Reverse

Primer Sequence

Genomic Coordinates of Target Region	Forward/Reverse	Primer Sequence
106374502–106374882	Forward	CACCCCTTGTTCTCCATGACC
	Reverse	TGGTTGACTGCTTTACCTG
106374883–106375262	Forward	AAATGGAGACACCAAGTGGC
	Reverse	GAGGTATGCGATGGGTGAGT
106375263–106375642	Forward	ATGAGCAGGAGGGGAAAAGT
	Reverse	TGGTGTGGTAGTGGCAGAAA
106375643–106376022	Forward	ACTCACCCATCGCATACCTC
	Reverse	AGATAGTGCTGTGTTGGGGG
106376023–106376402	Forward	TTCCACAGGTTTCTCAGCTT
	Reverse	GAGAAGTGCACCTGGTGTGA
106376783–106377162	Forward	AAGGCAAGCTTACACCCAGA
	Reverse	GGTTCCACCTTAATTGGCCT
106377163–106377542	Forward	AATGTCCAAATGGGACTGGA
	Reverse	ACTGGCCCTGACATTTCAAC
106377543–106377922	Forward	CCCCAGAAGGCACTCAAAA
	Reverse	CAAATTGCTGCCAGACTCAA
106377923–106378302	Forward	ACTTGATAGCCACACCCAG
	Reverse	TTCCCCCAACTCATGAAGAC
106381723–106382102	Forward	ACGTGGGATTTACACAACA
	Reverse	TGCACAAAAGGTAGAATGCAA
106383439–106383533	Forward	TTCCCATTTTCACCCACAT
	Reverse	ACCCAATTCTCAGGGTCAGA
106384175–106384384	Forward	AGGGTCAAAGCCCACTTTTT
	Reverse	TGAGGCCATGTGGTTACAGA
106400224–106400375	Forward	GTGTGGTTATGCCACAGCTT
	Reverse	CCAAAGAGGAAGTTTTTGTTC
106402364–106402454	Forward	ACCATACGGCTTAATTCCCC
	Reverse	TGTTACAATTGCTGCCAATGA
106410215–106410353	Forward	TGTCATTCCATTTTGTCTGG
	Reverse	CTGCTAAGCTGTCTCAGCC
106413169–106413524	Forward	TCTGGATCAACTAGGCCACC
	Reverse	GGGGGCAAAACCAAAATAAT
106415653–106416033	Forward	TCAAGCAGAGGCATGTTGAG
	Reverse	TATTTCCAAACCTTGGCTGG
106416034–106416413	Forward	AATCCCATGAACCTTACCC
	Reverse	ACCAGACCTCATCGTTGTCC
106416414–106416793	Forward	ATCAGTGGACAACCTGCTCC
	Reverse	ATGAAACGCAGGTAAGTGGG
106416794–106417173	Forward	ATTGGCACTAGTCCAGGGTG
	Reverse	ACTGTGACCTTTCCCCACTG

TET3 Primers (cDNA accession number: NM_144993.1)**Genomic Coordinates of**

Target Region	Forward/Reverse	Primer Sequence
74,083,745–74,083,801	Forward	CCTTTCTTTCCCAGGCTGTA
	Reverse	CAGCTGCTGCTAACACACACA
74,126,913–74,127,550	Forward	CAGATGTGCACCTGAGTGGT
	Reverse	CGGTCTGCAAGCTGATGTT
74,127,551–74,128,200	Forward	AGAGGTGCCCCAGATCTCTC
	Reverse	TTCTCCTTGGGTGGTCTGTC
74154233–74154274	Forward	TGTTGGTGGTTTGTCTTTCTAA
	Reverse	GCAAAGAAAATGAGAGGCG
74161132–74161226	Forward	ACTCAGCTAACAGGGCTGGA
	Reverse	CTCCCCTGGACAGTCAACAT
74168464–74168673	Forward	TGACATCCCTAGAACCCCTGC
	Reverse	TGGATATGCCTTCTCAACC
74170531–74170682	Forward	GGTGGGGAAGGATGAGTCT
	Reverse	TTCCACTTCTGTGCATCTG
74173536–74173626	Forward	TGAAGGAAAGGCCAGAAAGA
	Reverse	ACTCTCCCACTTCCCACCTT
74174163–74174301	Forward	TAACCCATCCACCTCCTCTG
	Reverse	GTCTCCAGGTCCCTCCCTAC
74179910–74180247	Forward	CATGTGTTTTGGGTGCTCAG
	Reverse	AAGCTCACTTCCACGCAGAT
74181027–74181407	Forward	GTGAAGAGAGGAGTCGGTGG
	Reverse	GTAGCAGTTGGAGCTCTGGG
74181408–74181787	Forward	CAATGGCTTCCACTCCAAGT
	Reverse	ACTACCTTTCAGGGCCGAGT
74181788–74182167	Forward	CCCAGAGCTCCAAGTCTAC
	Reverse	CCCACAGCTTCTCTCTGAC
74182168–74182547	Forward	ACTCGGCCCTGAAAGGTAGT
	Reverse	GCAAAGCACCACAGAGACA
74,182,497–74,182,811	Forward	GCTCCATCCTCATCGAGTGT
	Reverse	GCAAAGCACCACAGAGACA
74182548–74182927	Forward	CAGAGGAGAAGCTGTGGGAC
	Reverse	CCGACAGCCGTAGTTTCTTC
74182928–74183205	Forward	TGCCTACACGAAGGTCACTG
	Reverse	TCTGCAGACTCTCCCATCCT

TET2 MSP Primers: Primers were designed using the *MSPprimer* algorithm

(<http://www.mspprimer.org/cgi-mspprimer/design.cgi>; Brandes JC, Carraway H, Herman JG.

Oncogene. 2007 Sep 13;26(42):6229-37. Epub 2007 Mar 26). The genomic sequence for TET2 and 1000 bases upstream was obtained from the UCSC genome browser

(<http://genome.ucsc.edu>) and submitted to MSPprimer; primers were then designed based on the length of the specificity-determining subsequence (SDSS) and increasing values of delta-SDSS1 and delta-SDSS2.

**Methylated/Unmethylated
Specificity
(Sense/Antisense)**

**Primer
Location**

Primer Sequence

Methylated Sense		CGAGAGtTTGGGCGGtC
Methylated Antisense		GTCTaTTCTCATCACTCAaCGaaaCCG
Unmethylated Sense		tGGtGAGAGtTTGGGtGGttG
Unmethylated Antisense		aTTTaaCaTCTaTTCTCATCACTCAaCaaaaCCa
Methylated Sense		TTttCGAGGGtTGtAttTtTTttCGCGtTC
Methylated Antisense		CACCTaaaaCCGTACAaCGaaaCG
Unmethylated Sense		GGGTtTTtGAGGGtTGtAttTtTTTTtGtGtTtG
Unmethylated Antisense		aaCCaaCaaCACCTaaaaCCaTACAaCaaaaCa