

Product datasheet for **MC218589**

Setd4 (BC029101) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Setd4 (BC029101) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Setd4
Synonyms:	AY037804; C21orf18; ORF21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC029101 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGAGACGAAGAGGAAGAACAGAGAGGGCCAGGAAGAGACGGCGCGAAGCTCTGGTTCAAGAGCAG
TGAATGAGAGCTACAGATCAGAATTTATAGAGCTAAGAAAATGGCTGAAAGAAAGGAAGTTTGAAGACAC
AGACTTAGTACCCGCCAGCTTTCCAGGAACAGGAAGAGGGCTGATGAGCAAAGCATCGTTGCAGGAGGGC
CAGGTGATGATCTCACTGCCTGAGAGCTGTCTGCTCACCACGGACACTGTGATTCGAAGCTCCCTAGGGC
CCTACATTAAGAAGTGAAGCCTCCTGTGTCTCCTCTGCTGGCCTTGTTACTTTCTTAGTCTCAGAAAA
GCATGCCGGCTGTCCGGTCCCTCTGGAAGCTTACCTGGACATCTACCCAAGTCATACACCTGCCCGGTG
TGTTTGGAGCCGGAAGTGGTAGATCTTCTCCAGCCCTTAAAGGCGAAGGCGGAAGAGCAGAGAGCCC
GAGTGCAGGACCTGTTTACCTCCGCTAGAGGCTTCTTCTACCTGCAGCCTCTGTTTGCAGAGCCTGT
GGACAGCGTTTTTCAGCTACCGAGCCTTCTGTGGGCTGGTGCACGGTGAACACCAGGGCTGTGTACCTG
AGGTCCAGGAGGCAGGAGTGCCTTTCCGCAGAGCCGGACACGTGTGCGCTTGCTCCGTTCTGGACCTGC
TGAATCACAGCCACATGTGCAGGTGAGAGGGCGGCATGGAGACAGGTCTGCCGTTACAGAAGCCTGCC
ATGTAGGGACAAGGTTCTGAGTCAAGGATGGAATGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	BC029101
Insert Size:	1581 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>BC029101</u>
RefSeq Size:	2360 bp
RefSeq ORF:	809 bp
Locus ID:	224440
Cytogenetics:	16 C4
Gene Summary:	Histone-lysine N-methyltransferase that acts as a regulator of cell proliferation, cell differentiation and inflammatory response (PubMed:31376731, PubMed:31794893, PubMed:33506343). Regulates the inflammatory response by mediating mono- and dimethylation of 'Lys-4' of histone H3 (H3K4me1 and H3K4me2, respectively), leading to activate the transcription of proinflammatory cytokines IL6 and TNF-alpha (PubMed:31376731). Also involved in the regulation of stem cell quiescence by catalyzing the trimethylation of 'Lys-20' of histone H4 (H4K20me3), thereby promoting heterochromatin formation (By similarity). Involved in proliferation, migration, paracrine and myogenic differentiation of bone marrow mesenchymal stem cells (BMSCs) (PubMed:33506343). [UniProtKB/Swiss-Prot Function]