

## Product datasheet for MC224870

### Setd1a (NM\_178029) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Setd1a (NM_178029) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Setd1a
Synonyms:	BC010250; KMT2F; mKIAA0339; mNSC1; Nscn1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224870 representing NM_178029 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCAGGAAGGTGGGGGAGACGGGCAGAAAGCCCCGAGCTTCCAGTGGCGAACTACAAGTCATAG  
TGGATCCTGCTTTGGACCCTGCTTTGCGCAGGCCCTTCCCAGAAGGTGTACCGCTATGACGGAGTCCACTT  
CAGTGTCACTGACTCAAAGTATACCCCCGTGGAAGACCTCCAGGACCCCCGCTGTCATGTCAGGTCCAAA  
GCCAGAGACTTTCCCTCCCGTTCCCTAAGTTTAAAGCTGGATGAGTTCTATATTGGACAGATACCACTGA  
AGGAAGTAACTTTTGGCAGGCTCAATGACAATGTGAGGGAAACCTTCTGAAGGATATGTGCCGGAATA  
TGGAGAGGTGGAAGAAGTGGAGATCCTTCTTATCCCCGCACTCGAAAGCACCTAGGCCTGGCCCGTGTG  
CTCTTACCAGCACTCGGGGCGCAAGGAACTGTCAAAAACCTCCACCTCACCTCTGTCATGGGCAACA  
TCATTCATGCCAGCTTGATATCAAAGGCCAACGAATGAAGTACTATGAATTGATTGTCATGGCTC  
TTACACTCCTCAGACTGTGCCACTGGGGCAAGGCCCTGAGTGAGAAGTCCAGGGTCTGGTGCAGCC  
GCTGAGACGACTGAAGCCCGCCGACGGTCTTCTCGGACACAGCTGCCTATCCAGCAGGCACTACTGTGG  
GGGGCACCCCTGGCAATGGCACTCCCTGCTCCCAAGATACAAATTTCTCCAGCAGCCGACAAGATACTCC  
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GTGGT  
AGAAGCCCGGACTCCCCACGCCAGCTTCCCCTGCACGCTCTGGCTCCCAGCCCCAGAGACCACCAAC  
GAGAGTGTGCCCTTGTCTCAGCAGCAGTGGATTCCCGTATTGAAATGCTGCTGAAGGAACAACGCT



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CCAAGTTTTCTTCTGGCTTCTGATACAGAGGAAGAGGAAGAGAACAGCAGTGCAGGCCCTGGGGCTAG  
 AGATGCAGGGGCTGAGGTGCCTTCTGGGCAGGTGCATGGGCCCTGTACACCTCCTCTGCACCAGCTAAT  
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 GAGGAGGCGTCCAGGAGTCTTCTCAGAGAAGGATGAGGATGATGATGAAGATGAGGAAGATGAAG  
 AACAGGAGGAAGCTGTGGATGCCACCAAGAAGGAAGCAGAGGCATCGGATGGTGAAGATGAGGACAGTGA  
 TCGTCTCCAGTCTCTGTATCGGATTCAGATGGTGAAGTGGCAGCACATCAGACTCCGAGT  
 GGCAGCTCGTCTTCTCTTCTCATCGTCTTCTCCTCTTCTCCTCTTCTCCTCATCAGAGTCTCCTCTG  
 AGGAAGAGGAGCAGTCAAGCAGTATTCCCTCAGCTTACCCCCCAGAGAAGTCCAGAGCCCTTCCAGC  
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 ACCCAAGAAACGCCGAAAAGTGTTCCTTCTCTGCTGCAGAGGAGGCACCAGTCCAGAACCTTCCACA  
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 GAATCGAGCTGGAGGTCGTGTGCCTCTACTGAAGAAGAGGAGGCCACTGAGTCAGGACAGAAGTAGAC  
 CTGGCAGTACTGGCTGACCTGGCCCTGACCCAGCCGACGTGGGTTGGTACCCTACCCACTGGTGACG  
 ACTCAGAGGCCACAGAGACCTCAGATGAGGCTGAGCGCCCAAGCCCTCTACTCAGCCACATCCTCTTGG  
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 GCCCTTGTGCACTTTCAGTCTCCAGCTGATGAAGTCTTAGAGGCCCTGAGGTGGTGGTGGCTGAGG  
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 CGTAGCCTCCGCTCCACACTCGAAGAAGAAGGCCACCACTCCCACCCCAACCCACCTCCTCCTCCT  
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 GTGCTTCTGAGCGACGGTCAAGCAGCGCGGTTACTAAGCGCTATTGGCACCTCAGCCATCATGGACA  
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 TGAGTGGGCTCTGTTTCCATGGAACCCATTGCCGCTGATGAGATGGTATCGAATATGTTGGCCAGAAC  
 ATCCGCCAGATGGTAGCGGACATGCGGGAAAAGCGCTACGTGCAGGAGGGCATTGGCAGCAGCTACCTTT  
 TCCGGGTGGATCAGACACCATCATTGATGCCACCAAGTGTGGCAACCTCGCCAGGTTTATCAACCACTG  
 CTGCACGCCAACTGCTATGCGAAGGTGATCACCATTGAGTCTCAGAAAAAGATTGTCATCTACTCGAAG  
 CAGCCATCGGCGTGGATGAGGAGATCACCTACGACTACAAGTCCCCTAGAACACAAGATTCCGT  
 GTCTGTGCGGCACTGAAAGTTGCCGTGGCTCCCTCAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_178029

**Insert Size:** 5151 bp

**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:**

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:** [NM\\_178029.3](#), [NP\\_821172.2](#)

**RefSeq Size:** 5934 bp

**RefSeq ORF:** 5151 bp

**Locus ID:** 233904

**UniProt ID:** [E9PYH6](#)

**Cytogenetics:** 7 F3

**Gene Summary:** Histone methyltransferase that specifically methylates 'Lys-4' of histone H3, when part of the SET1 histone methyltransferase (HMT) complex, but not if the neighboring 'Lys-9' residue is already methylated. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. The non-overlapping localization with SETD1B suggests that SETD1A and SETD1B make non-redundant contributions to the epigenetic control of chromatin structure and gene expression.[UniProtKB/Swiss-Prot Function]