

## Product datasheet for MR211620

### Setd1b (NM\_001040398) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Setd1b (NM\_001040398) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Setd1b  
**Synonyms:** AA516740; BC035291; KMT2G; mKIAA1076  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR211620 representing NM\_001040398  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGAACAGTCACCCACCACCACCAGCAGCCCCGCCGAGCCCGCCCTTCGGGCGAGAGGA  
 GGAACCACCATTGGAGAAGTTACAAGTTGATGATTGACCCGGCTCTGAAAAAGGGCACCATAAACTGTA  
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GACTCCCGCATTGAGATGCTGCTGAAGGAGCAACGCACCAAGCTGCCCTTCCTTCGTGAGCAGGACTCAG  
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**Protein Sequence:**

>MR211620 representing NM\_001040398  
 Red=Cloning site Green=Tags(s)

MENSHPHHHHQPPPPQPGPSGERRNHHWRSYKLMIDPALKKGGHKLRYRDGQHFSLAMSSNRPEIVEDP  
 RVVGIWTKNKELEL SVPKFKIDEFYVGPVPPKQVTF AKLNDNVRENFLRDMCKKYGEVEEVEILYNPKTK  
 KHLGLIAKVVFATVRGAKEAVQHLHSTSMGNI IHVELDTKGETRMRFYELLVTGRYTPQTL PVGELDAIS  
 PIVSETLQLSDALKRLKDGLSAGCGSGSSVTPNSGGT PFSQDTAYSSCRLDTPNSYGGQGTIPRRLGT  
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 PPPPPPPPAHPAVTVPPPLPAPPGVPPPILPPLPFPFPPGLFPVMQVDMSHVLGGQWGMPSFQMOT  
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 IPRQEDPHKATVDGVL VVLKELKAIMKRDLNRKMVEVVAFRAFDEWWDKERMASLTPVKSGEHKDE  
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 TGRRDERTGPLASPVLLETGLPLPLPLPLPLALPVPV LRAQPRPPQLPPLL PATLAPCPTPIKRKPG  
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 KKKREDGIREHVTGCARSEGFYITDKDKLRYLNSRSTDEPPMDTQGMSIPAQPHASTRAGSERRSEK  
 RRLLSSF TGSCSDLLKFNQLKFRKKLKFCKSHIHDWGLFAMEPIA ADEMVI EYVGNIRQVIADMREK  
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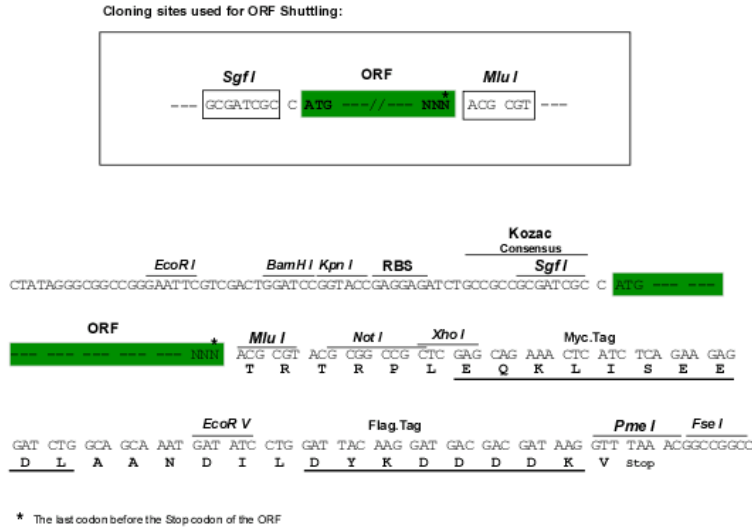
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9081\\_a07.zip](https://cdn.origene.com/chromatograms/mm9081_a07.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001040398

ORF Size: 5955 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001040398.2](#), [NP\\_001035488.2](#)

RefSeq Size: 8868 bp

RefSeq ORF: 5958 bp

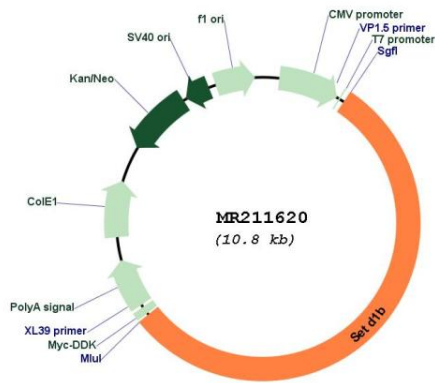
Locus ID: 208043

UniProt ID: [Q8CFT2](#)

**Cytogenetics:** 5 F  
**MW:** 215.4 kDa

**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 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR211620