

Product datasheet for **MG211620**

Setd1b (NM_001040398) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Setd1b (NM_001040398) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Setd1b
Synonyms: AA516740; BC035291; KMT2G; mKIAA1076
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG211620 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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 TCAAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG211620 representing NM_001040398

Red=Cloning site Green=Tags(s)

MENSHPHHHHQPPPQPGPSGERRNHHWRSYKLMIDPALKKGGHKLRYRDGQHFSLAMSSNRPVEIVEDP
 RVVGIWTKNKELEL SVPKFKIDEFYVGPVPPKQVTF AKLNDNVRENFLRDMCKKYGEVEEVEIL YNPKTK
 KHLGIAKVVVFATVRGAKEAVQHLHST SVMGNI IHVELDTKGETRMRFYELLVTGRYTPQTL PVGELDAIS
 PIVSETLQLSDALKRLKDGSL SAGCGSGSSSVTPNSGGT PFSQDTAYSSCRLDTPNSYGGQTPITPRLGT
 PFSQDSSYSSRQTPSYLFSQDPTATFKARRHESKFTDAYNRRHEHHYVHNSAVAGATAPFRGSSDL SFG
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 DSRIEMLLKEQRTKLPFLREQSDTEIQMEGSPISSSSSQLSPLSHFGTNSQPGFRGSPSSSRPSSTGL
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 EDEESERERDRDIADAPCELTKRDPKSVGVRRRPGRPLELDSGGEDEKESL SASSSSASSSSGSSSTTS
 PSSSASDKKEEDRESTEEEEEEEEEEEEEGPRSRISSPSSSSSDKDEDDNEADSDGQIDSDIDD
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 PEMQAPELEEPPLPMGARKLEGSPEPPEEPGPNTQGDMLLSP ELPARETEEAQLPSPPEHGPESDLMEP
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 TGRRDERTGPLASPVLLETGLPLPLPLPLPLALPVPVLRAPRPPQLPPLPATLAPCPTPIKRKPG
 RPRRSPSMLSLDGPLVRPPGPALGRDLLLPGQPAPIFPSAHDPRAVTLDFRNTGIPAPPPPLPQP
 PPPPPPPVESTKL PFKELDNQWPSEAI PPGPRRDEVTEEYVDLAKVRGPWRPPKRRHEDLVAPSASPE
 PSPPQPLFRPRSEFEEMTILYDIWNGGIDEEDIRFLCVTYERLLQQDNGMDWLN DTLWVYHPSTLSSAK
 KKKREDGIREHVTGCARSEGFYIDKKDKLRYLNSRSTDEPPMDTQGM SIPAQPHASTRAGSERRSEQ
 RRLSSFTGSCSDLLKFNQLKFRKKLKFCKSHIHDWGLFAMEPIAADEMVIEYVGNIRQVIADMREK
 RYEDEGISSYMFVRVDHTIIDATKCGNFARFINHSCNPNCYAKVITVESQKKIVIYSKQHINVNEEITY
 DYKFIEDVKIPCLCGSENCRGLN

TRTRPLE – GFP Tag – V

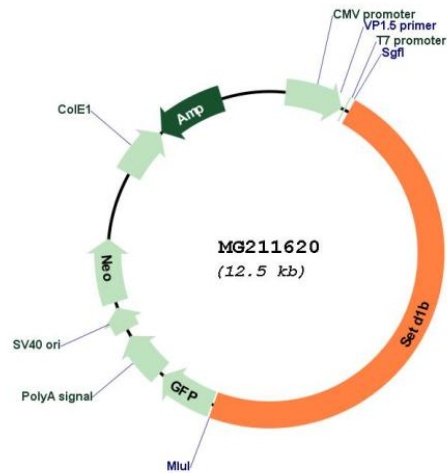
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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:	<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>NM_001040398.2</u> , <u>NP_001035488.2</u>
RefSeq Size:	8868 bp
RefSeq ORF:	5958 bp
Locus ID:	208043
UniProt ID:	<u>Q8CFT2</u>
Cytogenetics:	5 F
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]