

Product datasheet for **RC218283**

METTL9 (NM_001077180) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	METTL9 (NM_001077180) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	METTL9
Synonyms:	CGI-81; DREV; DREV1; PAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218283 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGACTGCTGGCGGGCTGGCTGTGCCTGAGCCTGGCGTCCGTGTGGCTGGCGCGGAGGATGTGGACGC
TGCGGAGCCCGCTCACCCGCTCCCTGTACGTGAACATGACTAGCGGCCCGGGTGGCCCGCGCGGCCGC
GGGCGGCAGGAAGGAGAACCACCAGTGGTATGTGTGAACAGAGAGAAATATGCGAATCACTCCAGGCT
GTCTTTGTTGAGATTACCTTGATCAAGGAACACAGATCTTCTAAACAACAGCATTGAGAAATCGGGCT
GGCTATTTATCCAATTATATCATTCTTTTGTGTCATCTGTTTTAGCCTGTTTATGTCTAGAACATCTAT
CAATGGGTTGCTAGGAAGAGGCTCAATGTTTGTGTTTTACCAGATCAGTTTCAGAGACTGCTTAAAT
AATCCAGACTGGAAAACCCACAGACTTCTTGATTTAGGTGCTGGAGATGGAGAAGTCACAAAAATCATGA
GCCCTCATTTTGAAGAAATCTATGCCACTGAGCTTTCTGAAACTATGATATGGCAGCTTCAGAAAAAGAA
ATACAGAGTCCTTGGTATAAATGAATGGCAGAATACGGGGTCCAGTATGATGTCATCAGCTGCCTGAAC
TTGCTGGACCGCTGTGATCAGCCCTGACTTTGTTAAAGATATCAGAAGTGTCTGGAGCCAACAGAG
GCAGGGTCATCCTTGCCCTTGCTCCCTTTCATCCCTATGTGGAAAACGTAGGTGGCAAGTGGGAGAA
ACCATCAGAAATTTTGGAAATCAAAGGACAGAAGTGGGAAGAACAAGTGAATAGTCTGCCTGAAGTTTT
AGAAAAGCTGGTTTTGTTATCGAAGCTTTCACCAGACTACCACCTGTGTGAAGCGGACATGTATAATG
ACTACTACGTTCTGGATGACGCTGTCTTTGTTCTCAAACCAAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218283 protein sequence
Red=Cloning site Green=Tags(s)

MRLLAGWLCCLSLASVWLARRMWTLSPLTRSLYVNMTSGPGGPAAGGRKENHQWYVCNREKLCESLQA
 VFVQSYLDQGTQIFLNNSIEKSGWLFIQLYHSFVSSVFLFMSRTSINGLLGRGSMFVSPDQFQRLKI
 NPDWKTHRLLDLGAGDGEVTKIMSPHFEEIYATELSETMIWQLQKKKYRVLGINEWQNTGFQYDVISCLN
 LLDRCDDQPLTLLKDIRSVLEPTRGRVILALVLPFHPYVENVGGKWEKPSEILEIKGQNWEEQVNSLPEVF
 RKAGFVIEAFTRLPYLCEGDMYNDYYVLDDAVFLKPV

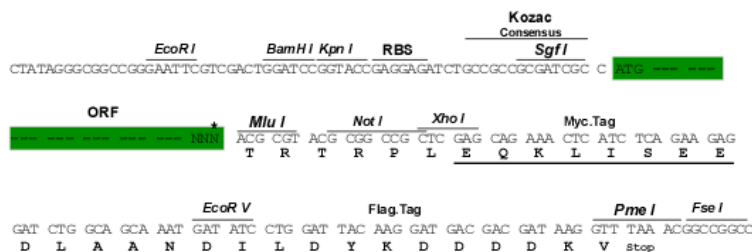
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6388_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001077180

ORF Size: 954 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 Size: 3264 bp

RefSeq ORF: 954 bp

Locus ID: 51108

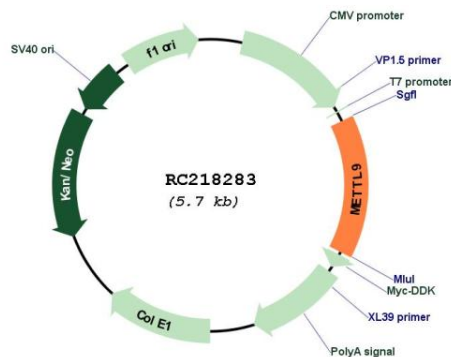
UniProt ID: [Q9H1A3](#)

Cytogenetics: 16p12.2

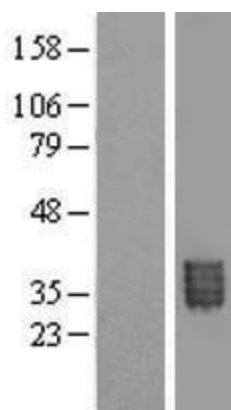
MW: 36.5 kDa

Gene Summary: Protein-histidine N-methyltransferase that specifically catalyzes 1-methylhistidine (pro-methylhistidine) methylation of target proteins (PubMed:33563959). Mediates methylation of proteins with a His-x-His (HxH) motif (where 'x' is preferably a small amino acid) (PubMed:33563959). Catalyzes methylation of target proteins such as S100A9, NDUFB3, SLC39A5, SLC39A7, ARMC6 and DNAJB12; 1-methylhistidine modification may affect the binding of zinc and other metals to its target proteins (PubMed:33563959). Constitutes the main methyltransferase for the 1-methylhistidine modification in cell (PubMed:33563959). [UniProtKB/Swiss-Prot Function]

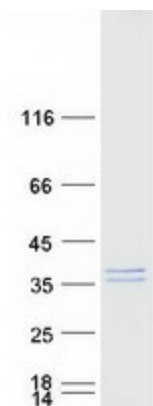
Product images:



Circular map for RC218283



Western blot validation of overexpression lysate (Cat# [LY421369]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218283 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified METTL9 protein (Cat# [TP318283]). The protein was produced from HEK293T cells transfected with METTL9 cDNA clone (Cat# RC218283) using MegaTran 2.0 (Cat# [TT210002]).