

Product datasheet for **SC315418**

METTL9 (NM_001077180) Human Untagged Clone

Product data:

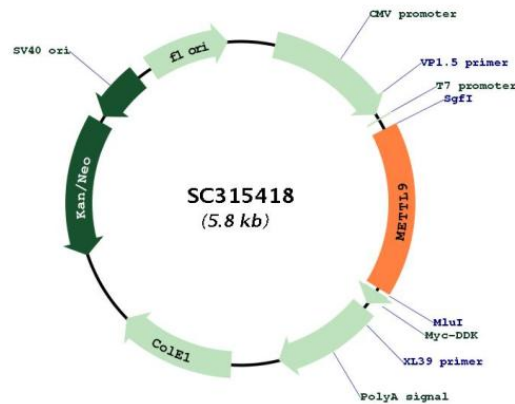
Product Type:	Expression Plasmids
Product Name:	METTL9 (NM_001077180) Human Untagged Clone
Tag:	Tag Free
Symbol:	METTL9
Synonyms:	CGI-81; DREV; DREV1; PAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315418 representing NM_001077180. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGACTGCTGGCGGGCTGGCTGTGCCTGAGCCTGGCGTCCGTGTGGCTGGCGCGGAGGATGTGGACG
CTGCGGAGCCCGCTCACCCGCTCCCTGTACGTGAACATGACTAGCGGCCCGGGTGGGCCGGCGGGCC
GCGGGCGGCAGGAAGGAGAACCACCAGTGGTATGTGTGCAACAGAGAGAAATTATGCGAATCACTCCAG
GCTGTCTTTGTTACAGATTACCTTGATCAAGAACACAGATCTTCTTAACAACAGCATTGAGAAATCG
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TCTATCAATGGGTTGCTAGGAAGAGGCTCAATGTTTGTGTTTTACCAGATCAGTTTCAGAGACTGCTT
AAAATTAATCCAGACTGGAAAACCCACAGACTTCTTGATTTAGGTGCTGGAGATGGAGAAGTCACAAAA
ATCATGAGCCCTCATTTTGAAGAAATCTATGCCACTGAGCTTTCTGAAACTATGATATGGCAGCTTCAG
AAAAAGAAATACAGAGTCTTGGTATAAATGAATGGCAGAATACGGGGTCCAGTATGATGTCATCAGC
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CCAAGTAGAGGCAGGGTCATCCTTGCCCTGTCCCTCCCTTTTATCCCTATGTGGAAAACGGTGGCAAG
TGGGAGAAACCATCAGAAATTTGGAAATCAAAGGACAGAAGTGGGAAGAACAAGTGAATAGTCTGCCT
GAAGTTTTTCAAAAAGCTGGTTTTGTTATCGAAGCTTTACCAGACTACCATACCTGTGTGAAGGCGAC
ATGTATAATGACTACTACGTTCTGGATGACGCTGTCTTTGTTCTCAAACAGTAATA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001077180

Insert Size: 954 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001077180.2](#)

RefSeq Size: 3264 bp

RefSeq ORF: 954 bp

Locus ID: 51108

UniProt ID: [Q9H1A3](#)

Cytogenetics: 16p12.2

MW: 36.4 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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.