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Product datasheet for SC317482

METTL9 (NM_016025) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	METTL9 (NM_016025) 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:	>SC317482 representing NM_016025. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGAGACTGCTGGCGGGCTGGCTGTGCCTGAGCCTGGCGTCCGTGTGGCTGGCGCGGAGGATGTGGACG CTGCGGAGCCCGCTCACCCGCTCCCTGTACGTGAACATGACTAGCGGCCCGGGTGGGCCGGCGGCGGCC GCGGGCGGCAGGAAGGAGAACCACCAGTGGTATGTGTGCAACAGAGAGAAATTATGCGAATCACTCCAG GCTGTCTTTGTTCAGAGTTACCTTGATCAAGGAACACAGATCTTCTTAAACAACAGCATTGAGAAATCG GGCTGGCTATTTATCCAATTATATCATTCTTTTGTGTCATCTGTTTTTAGCCTGTTTATGTCTAGAACA TCTATCAATGGGTTGCTAGGAAGAGGCTCAATGTTTGTGTTTTCACCAGATCAGTTTCAGAGACTGCTT AAAATTAATCCAGACTGGAAAACCCACAGACTTCTTGATTTAGGTGCTGGAGATGGAGAAGTCACAAAA ATCATGAGCCCTCATTTTGAAGAAATCTATGCCACTGAGCTTTCTGAAACTATGATATGGCAGCTTCAG AAAAAGAAATACAGAGTCCTTGGTATAAATGAATGGCAGAATACGGGGTTCCAGTATGATGTCATCAGC TGCCTGAACTTGCTGGACCGCTGTGATCAGCCCCTGACTTTGTTAAAAGATATCAGAAGTGTCTTGGAG CCAACTAGAGGCAGGGTCATCCTTGCCCTTGTCCTCCCCTTTCATCCCTATGTGGAAAACGTAGGTGGC AAGTGGGAGAAACCATCAGAAATTTTGGAAATCAAAGGACAGAACTGGGAAGAACAAGTGAATAGTCTG CCTGAAGTTTTCAGAAAAGCTGGTTTTGTTATCGAAGCTTTCACCAGACTACCATACCTGTGTGAAGGC GACATGTATAATGACTACTACGTTCTGGATGACGCTGTCTTTGTTCTCAAACCAGTATAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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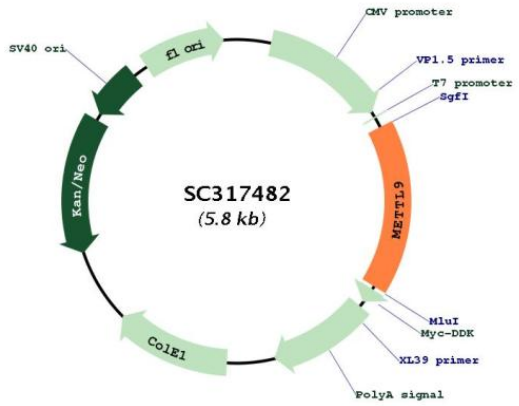
Plasmid Map:



ACCN:	NM_016025
Insert Size:	957 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_016025.4
RefSeq Size:	3267 bp
RefSeq ORF:	957 bp

Locus ID:	51108
UniProt ID:	Q9H1A3
Cytogenetics:	16p12.2
Domains:	DREV
MW:	36.5 kDa
Gene Summary:	Protein-histidine N-methyltransferase that specifically catalyzes 1-methylhistidine (pros-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 (1) represents the longest transcript and encodes the longest isoform (1).