

Product datasheet for **RC237110**

METTL9 (NM_001288660) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: METTL9 (NM_001288660) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: METTL9
Synonyms: CGI-81; DREV; DREV1; PAP1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237110 representing NM_001288660
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATCGAAAGACCACGAGCTGGGATACCAAGTTCTATGAAAAGTGGTATGTGTGCAACAGAGAGAAAT
TATGCGAATCACTCCAGGCTGTCTTTGTTGAGAGTTACCTTGATCAAGGAACACAGATCTTCTTAAACAA
CAGCATTGAGAAATCGGGCTGGCTATTTATCCAATTATATCATTCTTTTGTGCATCTGTTTTAGCCTG
TTTATGTCTAGAACATCTATCAATGGGTTGCTAGGAAGAGGCTCAATGTTTGTGTTTTACCAGATCAGT
TTCAGAGACTGCTTAAATTAATCCAGACTGGAAAACCCACAGACTTCTTGATTTAGGTGCTGGAGATGG
AGAAGTCACAAAATCATGAGCCCTCATTTTGAAGAAATCTATGCCACTGAGCTTTCTGAAACTATGATA
TGGCAGCTTCAGAAAAAGAAATACAGAGTCCTTGGTATAAATGAATGGCAGAATACGGGGTTCCAGTATG
ATGTCATCAGCTGCCTGAACTTGCTGGACCGCTGTGATCAGCCCCTGACTTTGTTAAAAGATACAGAAG
TGTCTTGGAGCCAACAGAGGCAGGGTCATCCTTGCCCTGTCTCCCTTTCATCCCTATGTGGAAAAC
GGTGGCAAGTGGGAGAAACCATCAGAAATTTGAAAATCAAAGGACAGAAGTGGGAAGAACAAGTGAATA
GTCTGCCTGAAGTTTTAGAAAAGCTGGTTTTGTTATCGAAGCTTTCACCAGACTACCATACCTGTGTGA
AGGCGACATGTATAATGACTACTACGTTCTGGATGACGCTGTCTTTGTTCTCAAACAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237110 representing NM_001288660
Red=Cloning site Green=Tags(s)

MDRKTTSWDTKFYEKWWYVCNREKLCESLQAVFVQSYLDQGTQIFLNNSIEKSGWLFIQLYHSFVSSVFSL
 FMSRTSINGLLGRGSMFVFSPOQFQRLKINPDWKTTHRLDLGAGDGEVTKIMSPHFEEIYATELSETMI
 WQLQKKKYRVLGINWQNTGFQYDVISCLNLLDRCDQPLTLKDIRSVLEPTRGRVILALVLPFHPYVEN
 GGKWEKPSEILEIKGQNWEEQVNSLPEVFRKAGFVIEAFTRLPYLCEGDMYNDYYVLDDAVFVLKPV

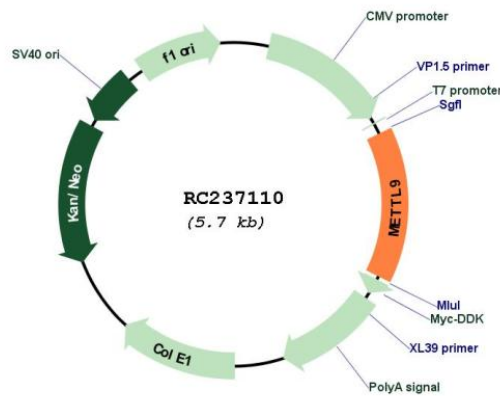
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288660
ORF Size: 831 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:	NM_001288660.1 , NP_001275589.1
RefSeq Size:	2921 bp
RefSeq ORF:	834 bp
Locus ID:	51108
UniProt ID:	Q9H1A3
Cytogenetics:	16p12.2
MW:	32.8 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]