

## Product datasheet for **RG237119**

### **METTL9 (NM\_001288659) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	METTL9 (NM_001288659) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	METTL9
Synonyms:	CGI-81; DREV; DREV1; PAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237119 representing NM_001288659. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATCGAAAGACCACGAGCTGGGATACCAAGTCTATGAAAAGTGGTATGTGTGCAACAGAGAGAAA
TTATGCGAATCACTCCAGGCTGTCTTTGTTTCAGAGTTACCTTGATCAAGGAACACAGATCTTCTTAAAC
AACAGCATTGAGAAATCGGGCTGGCTATTTATCCAATTATCATTCTTTGTGCATCTGTTTTAGC
CTGTTTATGTCTAGAACATCTATCAATGGGTTGCTAGGAAGAGGCTCAATGTTTGTGTTTCACCAGAT
CAGTTTCAGAGACTGCTTAAATTAATCCAGACTGGAAAACCCACAGACTTCTTGATTTAGGTGCTGGA
GATGGAGAAGTCACAAAATCATGAGCCCTCATTTTGAAGAAATCTATGCCACTGAGCTTCTGAAACT
ATGATATGGCAGCTTCAGAAAAAGAAATACAGAGTCCTTGGTATAAATGAATGGCAGAATACGGGGTTC
CAGTATGATGTCATCAGCTGCCTGAACTTGCTGGACCGCTGTGATCAGCCCTGACTTTGTAAAAGAT
ATCAGAAGTGTCTTGAGCCAAC TAGAGGCAGGGTCATCCTTGCCCTTGCTCCTCCCTTTCATCCAT
GTGGAAAACGTAGGTGGCAAGTGGGAGAAACCATCAGAAATTTGGAAATCAAAGGACAGAACTGGGAA
GAACAAGTGAATAGTCTGCCTGAAGTTTTCAGAAAAGCTGGTTTTGTTATCGAAGCTTTCACCAGACTA
CCATACCTGTGTGAAGGCGACATGTATAATGACTACTACGTTCTGGATGACGCTGTCTTTGTTCTCAA
CCAGTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237119  
 Blue=ORF Red=Cloning site Green=Tag(s)

MDRKTTSWDTKFYEKWYVCNREKLCESLQAVFVQSYLDQGTQIFLNNSIEKSGWLFQLYHSFVSSVFS  
 LFMSRTSINGLLGRGSMFVFSPOQFQRLKINPDWKTHRLDLGAGDGEVTKIMSPHFEEIYATELSET  
 MIWQLQKKKYRVLGINEWQNTGFQYDVISCLNLLDRCDQPLTLKDIRSVLEPTRGRVILALVLPFHPY  
 VENVGGKWEKPEILEIKGQNWEEQVNSLPEVFRKAGFVIEAFTRLPYLCEGDMYNDYYVLD DAVFVLK  
 PV  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001288659

**ORF Size:** 834 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).

**RefSeq:** [NM\\_001288659.1](#), [NP\\_001275588.1](#)

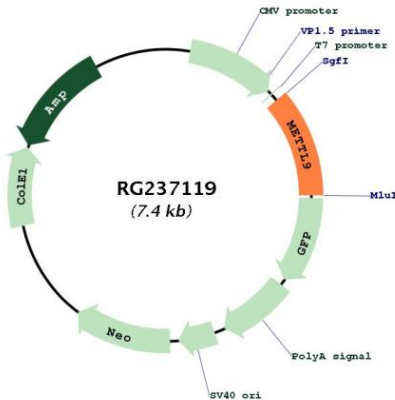
**RefSeq Size:** 2924 bp

**RefSeq ORF:** 837 bp

**Locus ID:** 51108  
**UniProt ID:** [Q9H1A3](#)  
**Cytogenetics:** 16p12.2  
**MW:** 32.9 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 RG237119