

## Product datasheet for **RG218283**

### **METTL9 (NM\_001077180) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	METTL9 (NM_001077180) 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:	>RG218283 representing NM_001077180 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGACTAGCGGCCCGGTGGGCCGGCGGCCGGCGGGCGGCAGGAAGGAGAACCACCAGTGGTATGTGT  
GCAACAGAGAGAAATTATGCGAATCACTCCAGGCTGTCTTTGTTCCAGAGTTACCTTGATCAAGGAACACA  
GATCTTCTTAAACAACAGCATTGAGAAATCGGGCTGGCTATTTATCCAATTATATCATTCTTTTGTGCA  
TCTGTTTTTAGCCTGTTTATGTCTAGAACATCTATCAATGGTTGCTAGGAAGAGGCTCAATGTTTGTGT  
TTTCACCAGATCAGTTTCAGAGACTGCTTAAAATTAATCCAGACTGGAAAACCCACAGACTTCTTGATTT  
AGGTGCTGGAGATGGAGAAGTCACAAAAATCATGAGCCCTCATTTTGAAGAAATCTATGCCACTGAGCTT  
TCTGAAACTATGATATGGCAGCTTCAGAAAAAGAAATACAGAGTCCTTGGTATAAATGAATGGCAGAATA  
CGGGGTTCCAGTATGATGTCATCAGCTGCCTGAACTTGCTGGACCCTGTGATCAGCCCCGACTTTGTT  
AAAAGATATCAGAAGTGTCTTGGAGCCAACTAGAGGCAGGGTCATCCTTGCCCTTGCTCTCCCTTTTCAT  
CCCTATGTGGAACCGTAGGTGGCAAGTGGGAGAAACCATCAGAAATTTGGAAATCAAAGGACAGAAGT  
GGGAAGAACAAGTGAATAGTCTGCCTGAAGTTTTCAGAAAAGCTGGTTTTGTTATCGAAGCTTTCACCAG  
ACTACCATACCTGTGTGAAGCGGACATGTATAATGACTACTACGTTCTGGATGACGCTGTCTTTGTTCTC  
AAACCAGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218283 representing NM\_001077180  
Red=Cloning site Green=Tags(s)

MTSGPGGPAAAAGGRKENHQWYVCNREKLCESLQAVFVQSYLDQGTQIFLNNSIEKSGWLFIQLYHSFVS  
 SVFSLFMSRTSINGLLGRGSMFVSPDQFQRLKINPDWKTHRLDLGAGDGEVTKIMSPHFEEIYATEL  
 SETMIWQLQKKKYRVLGINWQNTGFQYDVISCLNLLDRCDQPLTLLKDIRSVLEPTRGRVILALVLPFH  
 PYVENVGKWEKPSEILEIKGQNWEEQVNSLPEVFRKAGFVIEAFTRLPLYLCEGDYNDYVVLDDAVFVL  
 KPV

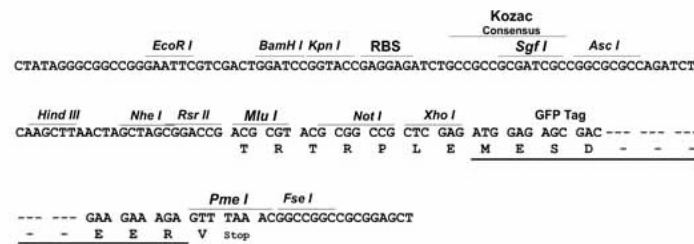
TRTRPLE - GFP Tag - V

**Restriction Sites:**

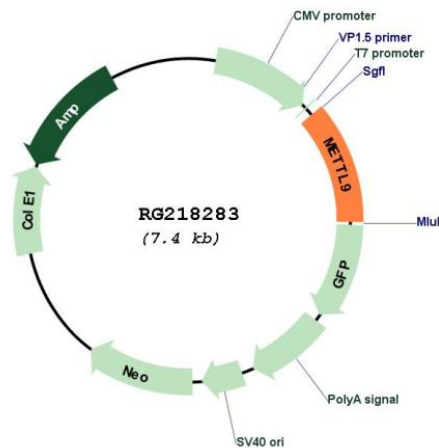
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001077180

**ORF Size:** 951 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001077180.1</a> , <a href="#">NP_001070648.1</a>
<b>RefSeq Size:</b>	3209 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	51108
<b>UniProt ID:</b>	<a href="#">Q9H1A3</a>
<b>Cytogenetics:</b>	16p12.2
<b>Gene Summary:</b>	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]