

## Product datasheet for **RG200869**

### **METTL3 (NM\_019852) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	METTL3 (NM_019852) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	METTL3
Synonyms:	hMETTL3; IME4; M6A; MT-A70; Spo8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200869 representing NM\_019852  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGGACACGTGGAGCTCTATCCAGGCCACAAGAAGCAGCTGGACTCTCTCGGGAGAGGCTGCAGC  
 GGAGGCGGAAGCAGGACTCGGGGCACTTGATCTACGGAATCCAGAGGCAGCATTGTCTCCAACCTCCG  
 TAGTGACAGCCCAGTGCCTACTGCACCCACCTCTGGTGGCCCTAAGCCCAGCACAGCTTCAGCAGTTCCT  
 GAATTAGCTACAGATCCTGAGTTAGAGAAGAAGTTGCTACACCACCTCTCTGATCTGGCCTTAACATTGC  
 CCACTGATGCTGTGCCATCTGTCTTGCCATCTCCACGCCAGATGCTCCTGCCACTCAAGATGGGGTAGA  
 AAGCCTCTGCAGAAGTTTGAGCTCAGGAGTTGATTGAGGTAAGCGAGGTCTCTACAAGATGATGCA  
 CATCTACTCTTGAACCTATGCTGACCATTCAAAGCTCTCTGCCATGATGGGTGCTGTGGCAGAAAAGA  
 AGGGCCCTGGGGAGGTAGCAGGGACTGTCACAGGGCAGAAGCGGCGTGCAGAACAGGACTCGACTACGT  
 AGCTGCCTTTGCCAGTTCGTTAGTCTCTGGTCTGAAGCTCTCAGCATCGGAACCAGCAAAGGAGCCAGCC  
 AAGAAATCAAGGAAACATGCTGCCTCAGATGTTGATCTGGAGATAGAGAGCCTTCTGAACCAACAGTCCA  
 CTAAGGAACAACAGAGCAAGAAGGTCAGTCAGGAGATCCTAGAGCTATTAATACTACAACAGCCAAGGA  
 ACAATCCATTGTTGAAAAATTTGCTCTCGAGGTGGGCCCAAGTGAAGAATTCTGTGACTATGGAACC  
 AAGGAGGAGTGCATGAAAGCCAGTATGCTGATCGACCCTGTGCGCAAGCTGCACTTCAGACGAATTATCA  
 ATAACACACTGATGAGTCTTTAGGTGACTGCTCTTTCCTTAATACATGTTTCCACATGGATACCTGCAA  
 GTATGTTCACTATGAAATTGATGCTTGCATGGATTCTGAGGCCCTGGCAGCAAAGACCACGCCAAGC  
 CAGGAGTTCCTTACACAGAGTGTGCGAGGTGATTCCAGTGCAGACCGACTCTTCCACCTCAGTGGA  
 TCTGTTGTGATATCCGCTACCTGGAGCTCAGTATCTTGGCAAGTTTGAGTTGTGATGGCTGACCCACC  
 CTGGGATATTCACATGGAAGTGCCTATGGGACCCTGACAGATGATGAGATGCGCAGGCTCAACATACCC  
 GTACTACAGGATGATGGCTTTCTCTTCTGCTGGTCCACAGGCAGGGCCATGGAGTTGGGGAGAGAATGTC  
 TAAATCTCTGGGGTATGAACGGGTAGATGAAATTATTTGGTGAAGACAAATCAACTGCAACGCATCAT  
 TCGGACAGGCCGTACAGGTCACTGGTTGAACCATGGGAAGGAACACTGCTTGGTTGGTGTCAAAGGAAAT  
 CCCCAAGGCTTCAACCAGGTCTGGATTGTGATGTGATCGTAGCTGAGGTTGTTCCACCAGTCATAAAC  
 CAGATGAAATCTATGGCATGATTGAAAGACTATCTCTGGCACTCGCAAGATTGAGTTATTTGGACGACC  
 ACACAATGTCAACCAACTGGATCACCTTGGAAACCAACTGGATGGGATCCACCTACTAGACCCAGAT  
 GTGTTGCACGGTCAAGCAAAGGTACCCAGATGGTATCATCTCTAAACCTAAGAATTTA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG200869 representing NM\_019852  
 Red=Cloning site Green=Tags(s)

MSDTWSSIQAHKKQLDSLRLRERLQRRRKQDSGHLDLRNPEAALSPTFRSDSPVPTAPTSGGPKPSTASAVP  
 ELATDPELEKLLHHLSDLALTLPTDAVSICLAISTPDAPATQDGVESLLQKFAAQELIEVKRGLLQDDA  
 HPTLVTYADHSLKLSAMMGAVAEEKKGPGEVAGVTGQKRRAEQDSTTVAAFASSLVSLNNSASEPAKEPA  
 KKSRLKHAASDVLEIESLLNQSTKEQQSKKVSQEIPELLNNTTAAEQSIVEKFRSRGRAVQVEFCDYGT  
 KEECMKASDADRPCRKLHFRIINKHTDESLGDCSFLNTCFHMDTCKYVHYEIDACMDSEAPGSKDHTPS  
 QELALTSVGGDSSADRLFPPQWICCDIRYLDVSI LGKFAVVMADPPWDIHMELPYGTLTDDMRRLLNIP  
 VLQDDGFLFLWVTGRAMEL GRECLNLWGYERVDEIIWVKTNQLQRIIRTGRTGHWLNHGKEHCLVGVKGN  
 PQGFNQGLDCDVIVA EVRSTSHKPDEIYGMIERLSPGTRKIELFGRPHNVQPNWITLGNQLDGIHLLDPD  
 VVARFKQRYPDGIISKPKNL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_019852

**ORF Size:** 1740 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

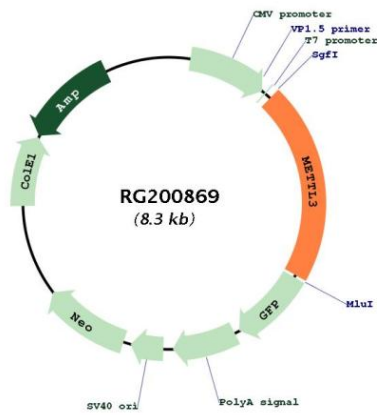
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
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\\_019852.3, NP\\_062826.2](#)  
**RefSeq Size:** 1975 bp  
**RefSeq ORF:** 1743 bp  
**Locus ID:** 56339  
**UniProt ID:** [Q86U44](#)  
**Cytogenetics:** 14q11.2  
**Domains:** MT-A70

**Gene Summary:** This gene encodes the 70 kDa subunit of MT-A which is part of N6-adenosine-methyltransferase. This enzyme is involved in the posttranscriptional methylation of internal adenosine residues in eukaryotic mRNAs, forming N6-methyladenosine. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG200869