

## Product datasheet for **MR204594**

### Mettl9 (NM\_021554) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mettl9 (NM_021554) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mettl9
Synonyms:	0610012D09Rik; AA517660; Drev; MNCb-5680
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204594 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGACTGTTGGCGGGCTGGCTGTGCCTGAGCCTGGCGTCCGTGTGGCTGGCGCGGAGGATGTGGACGC  
TGCGGAGCCCGCTCTCCCGCTCCCTGTACGTGAACATGACTAGCGGCCCGCGGGCCAGCGGGCCGC  
GGGCGCGGGAAGGACACGCACCAAGTGGTATGTGTGAACAGAGAGAAATATGCGAATCACTTCAGTCT  
GTCTTTGTTGAGATTATCTTGACCAAGGAACACAGATCTCTTAACAACAGCATTGAGAAATCTGGCT  
GGCTATTTATCCAACCTATCATTCTTTGTATCATCTGTTTTAGCCTGTTTATGTCTAGAACATCTAT  
TAACGGGTTGCTAGGAAGAGGCTCCATGTTTGTGTTCTCACAGATCAGTTTCAGAGACTGCTTAGAATT  
AATCCGGACTGGAAAACCATAGACTTCTTGATTTAGGTGCTGGAGATGGAGAAGTCACGAAAATCATGA  
GCCCTCATTTTGAAGAAATTTACGCCACTGAGCTTTCTGAAACAATGATCTGGCAGCTCCAGAAGAAGAA  
ATACAGAGTGCTTGGTATAAATGAATGGCAGAATACAGGGTCCAGTATGATGTCATCAGCTGCTTAAAT  
TTGCTGGATCGCTGTGATCAGCCCTGACATTGTTAAAAGATATCAGAAGTGTCTGGAGCCACCCAAG  
GCAGGGTCATCCTGGCATTGGTTTTGCCCTTTCATCCCTATGTAGAAAACGTAGGTGGCAAGTGGGAGAA  
ACCATCAGAAATCTGGAATCAAGGGACAGAATTGGGAAGAGCAAGTGAATAGCCTGCCTGAGGTGTTT  
AGAAAAGCCGGCTTTGTCGTCGAAGCTTCACTAGACTGCCATACCTGTGTGAAGCGGACATGTACAATG  
ACTACTATGTTCTGGACGATGCTGTCTTTGTTCTCAGACCAGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204594 protein sequence  
Red=Cloning site Green=Tags(s)

MRLLAGWLCLSLASVWLARRMWTLSRSLSRSLVYVNTSGPGGPAAGGGKDTHQWYVCNREKLCESLQS  
 VFVQSYLDQGTQIFLNNSIEKSGWLFIQLYHSFVSSVFLFMSRTSINGLLGRGSMFVSPDQFQRLRLRI  
 NPDWKTHRLDLGAGDGEVTKIMSPHFEEIYATELSETMIWQLQKKKYRVLGINEWQNTGFQYDVISCLN  
 LLDRCDDQPLTLKDIRSVLEPTQGRVILALVLPFHPYVENVGGKWEKPSEILEIKGQNWEEQVNSLPEVF  
 RKAGFVVEAFTRLPYLCEGDMYNDYYVLDDAVFLRPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_021554

**ORF Size:** 957 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:**

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\\_021554.2](#), [NP\\_067529.2](#)

**RefSeq Size:** 1850 bp

**RefSeq ORF:** 957 bp

**Locus ID:** 59052

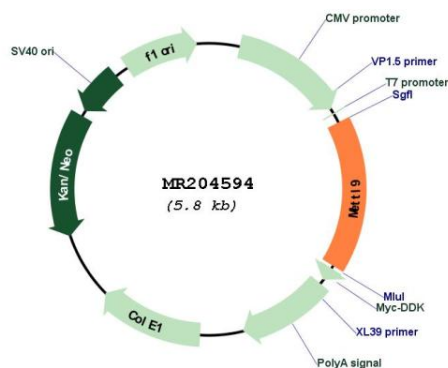
**UniProt ID:** [Q9EPL4](#)

**Cytogenetics:** 7 F2

**MW:** 36.4 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 MR204594