

Product datasheet for **MG204594**

Mettl9 (NM_021554) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mettl9 (NM_021554) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mettl9
Synonyms:	0610012D09Rik; AA517660; Drev; MNCb-5680
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204594 representing NM_021554 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGACTGTTGGCGGGCTGGCTGTGCCTGAGCCTGGCGTCCGTGTGGCTGGCGGGAGGATGTGGACGC
TGCGGAGCCCGCTCTCCCGCTCCCTGTACGTGAACATGACTAGCGGCCCGCGGGCCAGCGGGCCGC
GGGCGCGGGAAGGACACGCACCAAGTGGTATGTGTCAACAGAGAGAAATATGCGAATCACTTCAGTCT
GTCTTTGTTGAGATTATCTTGACCAAGGAACACAGATCTCTTAACAACAGCATTGAGAAATCTGGCT
GGCTATTTATCCAACCTATCATTCTTTGTATCATCTGTTTTAGCCTGTTTATGTCTAGAATCTAT
TAACGGGTTGCTAGGAAGAGGCTCCATGTTTGTGTTCTCACCGATCAGTTTCAGAGACTGCTTAGAATT
AATCCGGACTGGAAAACCATAGACTTCTTGATTTAGGTGCTGGAGATGGAGAAGTCACGAAAATCATGA
GCCCTCATTTTGAAGAAATTTACGCCACTGAGCTTTCTGAAACAATGATCTGGCAGCTCCAGAAGAAGAA
ATACAGAGTGCTTGGTATAAATGAATGGCAGAATACAGGGTCCAGTATGATGTCATCAGCTGCTTAAAT
TTGCTGGATCGCTGTGATCAGCCCCTGACATTGTTAAAAGATATCAGAAGTGTCTGGAGCCACCCAAG
GCAGGGTCATCCTGGCATTGGTTTTGCCCTTTCATCCCTATGTAGAAAACGTAGGTGGCAAGTGGGAGAA
ACCATCAGAAATCTGGAATCAAGGGACAGAATTGGGAAGAGCAAGTGAATAGCCTGCCTGAGGTGTT
AGAAAAGCCGGCTTTGTCGTCGAAGCTTCACTAGACTGCCATACCTGTGTGAAGCGGACATGTACAATG
ACTACTATGTTCTGGACGATGCTGTCTTTGTTCTCAGACCAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204594 representing NM_021554
 Red=Cloning site Green=Tags(s)

MRLLAGWLCLSLASVWLARRMWTLSPLSRSLYVNMTSGPGGPAAGGGKDTHQWYVCNREKLCESLQS
 VFVQSYLDQGTQIFLNNSIEKSGWLFIQLYHSFVSSVSLFMSRTSINGLLGRGSMFVSPDQFQRLRI
 NPDWKTHRLDLGAGDGEVTKIMSPHFEEIYATELSETMIWQLQKKYRVLGINEWQNTGFQYDVISCLN
 LLDRCDDQPLTLKDIRSVLEPTQGRVILALVLPFHPYVENVGGKWEKPEILEIKQNWEEQVNSLPEVF
 RKAGFVVEAFTRLPYLCEGDMYNDYYVLDDAVFVLRPV

TRTRPLE - GFP Tag - V

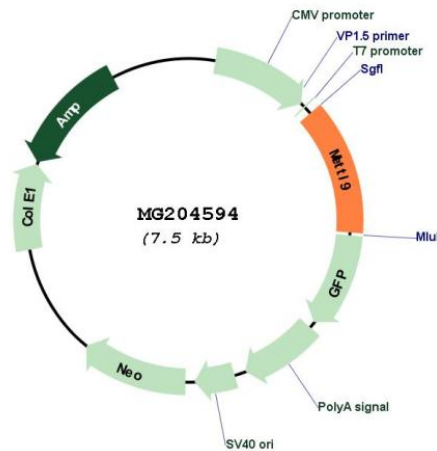
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_021554

ORF Size: 954 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_021554.2 , NP_067529.2
RefSeq Size:	1850 bp
RefSeq ORF:	957 bp
Locus ID:	59052
UniProt ID:	Q9EPL4
Cytogenetics:	7 F2
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]