

Product datasheet for **MC203767**

Mettl1 (NM_010792) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mettl1 (NM_010792) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mettl1
Synonyms:	2810012D02Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC012649 CCACGCGTCCGCGGACGCGTGGGCGGAGCTCGGCTCTCCACGTGGACTGCGTGGCATGATGGCGGGAGC CGAAGCCCCCAGCCGCAGAAGCGCTACTACCGGCAGCGGCCACTCCAACCCATGGCAGACCACACA CTGCGCTACCCTGTGAAGCCAGAGGAAATGGACTGGTCTGAGCTTTACCCAGAGTTCTTTGCTCCGCTTA ATCAAAAATAAGAACCATGATGATCCAAAGGATGAGAAAGAAAAGCACTCTGGGGCCCAAGTGGAGTTTGC AGACATAGGCTGTGGCTATGGTGGCTTGTAGTGGCACTGTCACCGCTCTTCCAGATACCTGATTCTG GGTCTGGAGATTCGGGTGAAGGTGTCGGACTATGTGCAGGACAGGATTCGGGCCCTCCGTGCAGCTCCCG GGGGCGGATTCAGAACATCGCCTGTCTCCGAAGTAACGCCATGAAACACCTTCCATTTCTTCCGCAA GGGCCAGCTGGCAAAGATGTTCTTCTCTTCCCGACCCACACTTAAGCGAACGAAGCATAAATGGAGA ATCATCAGCCCTACGCTTCTGGCAGAGTATGCCTACGTGCTGAGAGTCGGGGCCTGGTGTACACCGTCA CCGACGTGCCGGAGCTGCATGAGTGGATGTGCACCCACTTTGAAGAACACCCACTATTTGAGTGTGTGCC TCTTGAAGAGCTAAGTGAAGACCCATTGTGGAACATCTAGGCAGTTCAACTGAGGAAGGAAAGAAAGTT CTACGCAATGGGGAAAGAATTTCCAGCCGTCTCCGAAGAATACAGGATCCCCCTCCTCCAGGCAGTGA CCCCAACCCACCCTGCCTTAGCCAGACCCCTAGAAGGTGACTGGAAAAAAGATCAAAAAAAAAAAAAA AAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_010792
Insert Size:	807 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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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: [BC012649](#), [AAH12649](#)

RefSeq Size: 919 bp

RefSeq ORF: 807 bp

Locus ID: 17299

UniProt ID: [Q9Z120](#)

Cytogenetics: 10 D3

Gene Summary: Methyltransferase that mediates the formation of N(7)-methylguanine in a subset of RNA species, such as tRNAs, mRNAs and microRNAs (miRNAs) (PubMed:29983320). Catalyzes the formation of N(7)-methylguanine at position 46 (m7G46) in tRNA. Also acts as a methyltransferase for a subset of internal N(7)-methylguanine in mRNAs (PubMed:29983320). Internal N(7)-methylguanine methylation of mRNAs regulates translation (PubMed:29983320). Also methylates a specific subset of miRNAs, such as let-7. N(7)-methylguanine methylation of let-7 miRNA promotes let-7 miRNA processing by disrupting an inhibitory secondary structure within the primary miRNA transcript (pri-miRNA) (By similarity). Acts as a regulator of embryonic stem cell self-renewal and differentiation (PubMed:29983320).[UniProtKB/Swiss-Prot Function]