

Product datasheet for **MG202463**

Mettl21a (NM_025964) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Mettl21a
Synonyms: 2310038H17Rik; AI464204; Fam119a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG202463 representing NM_025964
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCTGGTACCCTATGAGGAGAGCGCGCAATAGGGCTCCAGAAATCCATAAGCCTCTCGCCACCT
TCTCTTTTGCGAACCACACCATCCAGATCCGTCAGGACTGGAGGCAACTGGGAGTTGCTGCAGTGGTGTG
GGATGCGGCTGTCGCTCTTCCATGTATCTGGAGATGGGTGCTGTGGAGCTCAGGGGCTGCTCTGCTGTG
GAGCTGGTGTGCACAGGGCTGGTGGGCATAGTGGCTGCCCTGCCGGTGTCTCAGGTGACTATCACGG
ATCGGAAAGTAGCATTAGAGTTTCTTAAGTCAAACGTTGAAGCCAACCTACCTCCCATATCCAACCTAA
GGCTGTTGTTAAGGAGCTGACTTGGGACAAAATTTGAAAAGTTTTTACCTGGAGAATTTGATCTCATA
CTTGGAGCTGATGCATATACTTAGAAGATACCTTACAGACCTTCTTCAAACACTGGGACATCTCTGTA
GCAACAATTCTGTGATTCTTTAGCTTGCCGAATCCGCTATGAACGGGATAGTAACCTCTTAAACAATGCT
GGAGAGGCAATCACTGTGAGTAAGTTTACTACGATCCTGAGAAGGACGTACACATTTACAAAGCACAG
AAGAGAAACCAGAGGGGAGGACTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202463 representing NM_025964
Red=Cloning site Green=Tags(s)

MALVPYEEAAILGLQKFKPLATFSFANHTIQIRQDWRQLGVAAVVWDAAVVLSMYLEMGAVELRGCSAV
ELGAGTGLVGIVAALPGAQVTITDRKVALEFLKSNVEANLPPHIQPKAVVKELTWGQNLESPGFEFLI
LGADVIYLEDFTDLLQTLGHLCSNNSVILLACRIRYERDSNFLMLERQFTVSKVHYDPEKDVHIYKAQ
KRNQREDL

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025964

ORF Size: 654 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_025964.2](#), [NP_080240.1](#)

RefSeq Size: 2667 bp

RefSeq ORF: 657 bp

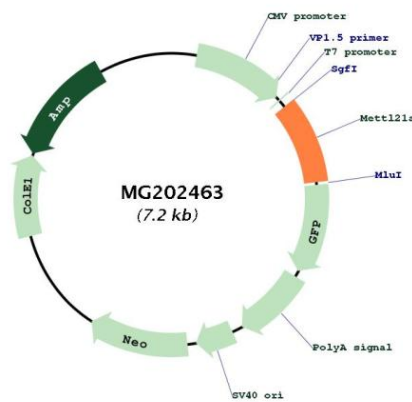
Locus ID: 67099

UniProt ID: [Q9CQL0](#)

Cytogenetics: 1 C2

Gene Summary: Protein-lysine methyltransferase that selectively trimethylates residues in heat shock protein 70 (HSP70) family members. Contributes to the in vivo trimethylation of Lys residues in HSPA1 and HSPA8. In vitro methylates 'Lys-561' in HSPA1, 'Lys-564' in HSPA2, 'Lys-585' in HSPA5, 'Lys-563' in HSPA6 and 'Lys-561' in HSPA8 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202463