

Product datasheet for **MG210110**

Mettl13 (NM_144877) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mettl13 (NM_144877) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mettl13
Synonyms:	5630401D24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG210110 representing NM_144877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGAATCTCTACCTAAAAGCTCCAAGGAGTTTGGCTCTGCCGACTACTGGGAGAAGTTCTTCCAGCAGC
 GAGGGAAGACAGCTTTCGAGTGGTATGGGACCTATCTGGAGCTGTGCGAGGTGCTGCACAAATACATAAA
 GCCCAAGGAAAAGGTGCTTGTGATCGGATGTGGCAACTCAGAGCTCAGTGAACAACCTCTATGATGTGGGC
 TATCAGGATATCGTGAACATCGACATCAGCGAGGTTGTCATCAAGCAGATGAAGGAACGCAATGGCAGCC
 GACGGCCCCACATGAGTTTCTGAAGATGGACATGACCCAGCTGGAGTTTCTGACGCCACATTCCAGGT
 GGTGTTGGACAAGGGCACGCTGGATGCTGCTGACAGATGAGGAGGAGGTGACCCTGCGTCAGGTGGAC
 AGGATGCTAGCTGAGGTTGGCCGTGCTGCGAGGTGGCGGTGCTACCTCTGCATCTCCCTGGCTCAGG
 CTCACATCTGAAGAAAGCAGTGGGCCACTTCTCTCGGAGGGGTGGATGGTGAAGGACACCAAGTGGC
 CAGCAGCCAGGACCGGTGCTGAAGCCGAGCCCGCTTCTCCCTGCCCGCTTTTGCCTTCGTCTGACT
 AAGTTTCAGGCCAGTCCCTGGCTCTGCCCTTCAGATCTTTGAGCTGTGTACTCAGGAGCAGGGCAAGCCCG
 TAAGGCTGGAGAGTGCTGATCAGCTGGCGGAGGCTGTGCGGGAGCGCCAGTACTATGCTTGGCTGTGTAG
 TCAGCTGCGCCGCAAGCCGGGCTGGGGAGTGTGTCCCTGGACTTGTGCAGTGGGGACACGGGGAGCCA
 CGCTACACCCTCCACGTGGTGGACAACCCCGCTGTGAACCATCGCGGGACAATCATTTTGCCATTTTCA
 TCATCCCCCAGGTCGCGAGACCGAGTGGCTCTTTGGCATGGAGGAGGGCCGGAAGCAGCTGGCAGCCAG
 TGCGGGCTTCAGGAGTTGGTCACAGTGGCTCTCCACCGAGGCCAGCGGTATGCTGGCATGGAAGCATT
 CAAGCAGAGTTGTCAGCCAGAGTCATGGAGCTGGCCCCGGCTGGGTTGCCTCCCCAGCAGCAGGTGCCCT
 TCCTGCTGTGGGTGGGACATTGGGGTCCGACTGTGCAGCACCAAGACCACAGTGCCTTGAGTGGTGA
 CTATGTTATTGAGGATGTGCAAGGGGAAGACAGATGGTACTTTTCGGCGGCTCATCTTCCTCAGCAACAGG
 AACGTGGTGCAGTCGGAAGCCAGGCTGCTGAAGGATACGTCTCACAGAGCCAGAAAGAAACGAAAAAGG
 ACAGGAAAAAACAGCGACCTGCTGATACTTCTGAGGACTTCCCGCTGCCCGAGGCAGTCCATCGATAA
 GAGTTACCTGTGCTGTGAACACCATAAAGCCATGGTTGCTGGCCTTGCCCTGCTGAGAAACCCGAGCTA
 CTCTTAGAGACTCCACTGACATTGCTGGTGGTGGGCTGGGTGGAGGTAGCCTCCCTCTCTTCGTTACG
 ATCATTTCCGAAGTCCCGCATCGATGCTGTTGAGATTGACCCACAATGTTGGAAGTGGCCACTCAGTG
 GTTTGGCTTCTCACAGAGCGACCGGATGAAGGTTACATTGCAGATGGTCTTGACTACATTACCAGCCTG
 GCAGGAGAAGCGCCGCTCACTATGATGTGATAATGTTTGATGTAGACAGTAAGGATCCGACGCTGGGGA
 TGAGCTGTCTCCCCAGCATTTGTGGACCAAGTTTTCTGCAGAAGGTCAAAGCATCCTGTGTACGA
 CGGCGTCTTCATCTTAACCTCGTGTGTCGGGACGTGAGGTTAAAGGACTCAGTGCTGGCTGGACTCAAG
 GCAGCCTTCCCTCTCTATGTCCGGCGGATTGAAGGCGAGGTGAATGAAATCCTGTTTGTGAGCTGC
 ATCCAGAACAGAACTTGCTACACCAGAGCTCTGGAAATGGCCAGGTTTTGGAGCGGACCCCTGCGGAA
 GCCTGGGCAGGGTTGGGATGACACGTATGTTCTGTCAGATATGCTGAAGACTGTGAAGATTGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210110 representing NM_144877
 Red=Cloning site Green=Tags(s)

MNLLPKSSKEFGSADYWEKFFQQRGKTAFEWYGTYLELCEVLHKYIKPKEKVLVIGCGNSELSEQLYDVG
 YQDIVNIDISEVVIKQMKERNSSRRPHMSFLKMDMTQLEFPDATFQVVLDKGTLDAVLTDEEEVTLRQVD
 RMLAEVGRVLQVGGRYLCISLAQAHLKKAUGHFSREGWMVRAHQVASSQDRVSEAEPRFSLPVFAFVMT
 KFRPVPGSALQIFELCTQEQQKPVRLSADQLAEAVRERQYYAWLCSQLRRKAGLSVSLDLCSGDTGEP
 RYTLHVVDNPAVKPSRDNHFAIFII PQGRETEWLF GMEEGRKQLAASAGFRRLLVTVALHRGQRYAGMESI
 QAELSARVMELAPAGLPPQQQVPFLSVGGDIGVRTVQHQSALSGDYVIEDVQGEDRWYFRRILFLSNR
 NVVQSEARLLKDTSHRAQKRRKKDRKKQRPADTSEDFPPAPGQSIDKSYLCCEHHKAMVAGLALLRNPEL
 LLETPLTLLVVLGGGSLPLFVHDHFPKSRIDAVEIDPTMLEVATQWFGFSQSDRMKVHIADGLDYITSL
 AGEAPPHYDVIMFDVDSKDPTLGMSCPPPAFVDQVFLQVKVKSILCHDGVFILNLVCRDVRKDSVLAGLK
 AAFPLL YVRIEGEVNEILFCQLHPEQKLATPELLEMAQVLERTLRKPGQGWDDTYVLSMLKTVKIV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_144877

ORF Size: 2094 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_144877.1](#), [NP_659126.1](#)

RefSeq Size: 2801 bp

RefSeq ORF: 2097 bp

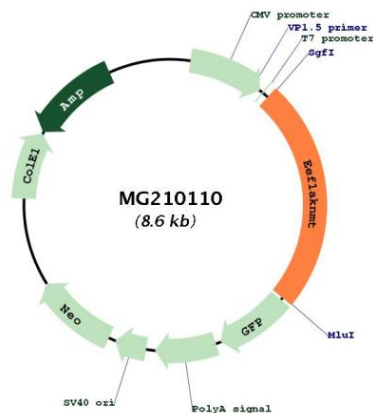
Locus ID: 71449

UniProt ID: [Q91YR5](#)

Cytogenetics: 1 H2.1

Gene Summary: Dual methyltransferase that catalyzes methylation of elongation factor 1-alpha (EEF1A1 and EEF1A2) at two different positions, and is therefore involved in the regulation of mRNA translation. Via its C-terminus, methylates EEF1A1 and EEF1A2 at the N-terminal residue 'Gly-2'. Via its N-terminus dimethylates EEF1A1 and EEF1A2 at residue 'Lys-55'. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210110