

Product datasheet for **MR210110**

Mettl13 (NM_144877) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mettl13 (NM_144877) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mettl13
Synonyms:	5630401D24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210110 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

 ATGAATCTCTACCTAAAAGCTCCAAGGAGTTTGGCTCTGCCGACTACTGGGAGAAGTTCTTCCAGCAGC
GAGGGAAGACAGCTTTCGAGTGGTATGGGACCTATCTGGAGCTGTGCGAGGTGCTGCACAAATACATAAA
GCCCAAGGAAAAGGTGCTTGTGATCGGATGTGGCAACTCAGAGCTCAGTGAACAACCTCTATGATGTGGGC
TATCAGGATATCGTGAACATCGACATCAGCGAGGTTGTCATCAAGCAGATGAAGGAACGCAATGGCAGCC
GACGGCCCCACATGAGTTTCTGAAGATGGACATGACCCAGCTGGAGTTTCTGACGCCACATTCCAGGT
GGTGTGGACAAGGGCACGCTGGATGCTGCTGACAGATGAGGAGGAGGTGACCCTGCGTCAGGTGGAC
AGGATGCTAGCTGAGGTTGGCCGTGCTGCGAGGTGGCGGTGCTACCTCTGCATCTCCCTGGCTCAGG
CTCACATCTGAAGAAAGCAGTGGGCCACTTCTCTCGGAGGGGTGGATGGTGAAGGACACCAAGTGGC
CAGCAGCCAGGACCGGTGCTGAAGCCGAGCCCCGCTTCTCCCTGCCCGCTTTTGCCTTCGTCTGACT
AAGTTTCAGGCCAGTCCCTGGCTCTGCCCTTCAGATCTTTGAGCTGTGTACTCAGGAGCAGGGCAAGCCCG
TAAGGCTGGAGAGTGCTGATCAGCTGGCGGAGGCTGTGCGGGAGCGCCAGTACTATGCTTGGCTGTGTAG
TCAGCTGCGCCGCAAGCCGGGCTGGGGAGTGTGTCCCTGGACTTGTGCAAGTGGGACACGGGGAGCCA
CGCTACACCTCCACGTGGTGGACAACCCCGCTGTGAACCATCGCGGACAATCATTTTGCCATTTTCA
TCATCCCCCAGGTCGCGAGACCGAGTGGCTCTTTGGCATGGAGGAGGGCCGGAAGCAGCTGGCAGCCAG
TGCGGGCTTCAGGAGTTGGTCAAGTGGCTCTCCACCGAGGCCAGCGGTATGCTGGCATGGAAGCATT
CAAGCAGAGTTGTGAGCCAGAGTCATGGAGCTGGCCCCGGCTGGGTTGCCTCCCCAGCAGCAGGTGCCCT
TCCTGTCTGTGGTGGGACATTGGGGTCCGACTGTGCAGCACAAGACCACAGTGCCTTGAGTGGTGA
CTATGTTATTGAGGATGTGCAAGGGGAAGACAGATGGTACTTTTCGGCGGCTCATCTTCTCAGCAACAGG
AACGTGGTGCAGTCGGAAGCCAGGCTGCTGAAGGATACGTCTCACAGAGCCAGAAGAAACGAAAAAGG
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ATCATTTCCGAAGTCCCGCATCGATGCTGTTGAGATTGACCCACAATGTTGGAAGTGGCCACTCAGTG
GTTTGGCTTCTCACAGAGCGACCGGATGAAGGTTACATTGCAGATGGTCTTGACTACATTACCAGCCTG
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CGGCGTCTTCATCCTTAACCTCGTGTGTCGGGACGTGAGGTTAAAGGACTCAGTGCTGGCTGGACTCAAG
GCAGCCTTCCCTCTCTATGTCCGGCGGATTGAAGGCGAGGTGAATGAAATCCTGTTTGTGAGCTGC
ATCCAGAACAGAACTTGCTACACCAGAGCTCTGGAAATGGCCAGGTTTTGGAGCGGACCCCTGCGGAA
GCCTGGGACGGGTTGGGATGACACGTATGTTCTGTGAGATATGCTGAAGACTGTGAAGATTGTG

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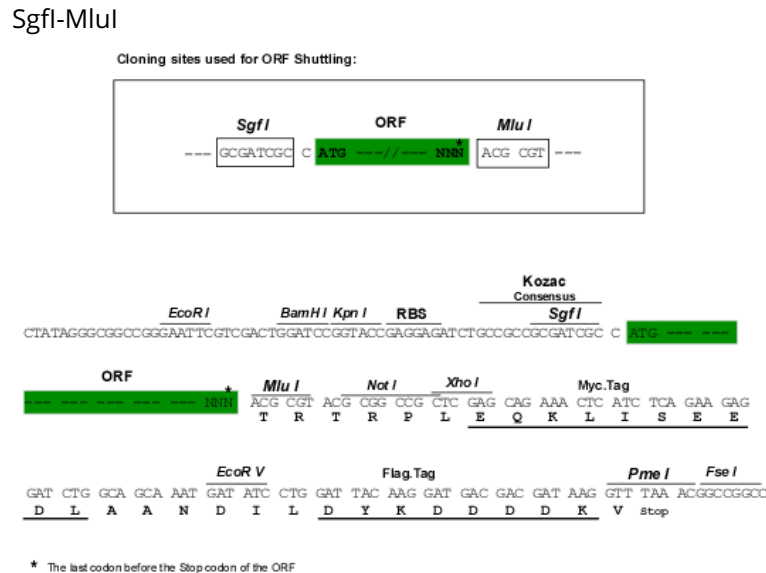
Protein Sequence: >MR210110 protein sequence
 Red=Cloning site Green=Tags(s)

MNLLPKSSKEFGSADYWEKFFQQRGKTAFEWYGTYLELCEVLHKYIKPEKVLVIGCGNSELSEQLYDVG
 YQDIVNIDISEVVIKQMKERNGSRPHMSFLKMDMTQLEFPDATFQVLDKGTLDVLTDEEEVTLRQVD
 RMLAEVGRVLQVGGRYLCISLAQAHLKKAUGHFSREGWMVRAHQVASSQDRVSEAEPRFSLPVFAFVMT
 KFRPVPGSALQIFELCTQEQQKPVRLSEADQLAEAVRERQYYAWLCSQLRRKAGLGSVSLDLCSGDTGEP
 RYTLHVVDNPAVKPSRDNHFAIFIIPQGRETEWLFGMEEGRKQLAASAGFRRLVTVALHRGQRYAGMESI
 QAELSARVMELAPAGLPPQQQVPFLSVGGDIGVRTVQHQDHSALSGDYVIEDVQGEDRWYFRLIFLSNR
 NVVQSEARLLKDTSHRAQKRKKDRKKQRPADTSEDFPPAPGQSIDKSYLCCEHHKAMVAGLALLRNPEL
 LLETPLTLLVVLGGGSLPLFVHDHFPKSRIDAVEIDPTMLEVATQWFGFSQSDRMKVHIADGLDYITSL
 AGEAPPHYDVIMFDVDSKDPTLGMSCPPPAFVDQVFLQVKVKSILCHDGVFILNLVCRDVRCLKDSVLAGLK
 AAFPLLYVRIEGEVNEILFCQLHPEQKLATPELLEMAQVLERTLRKPGQGWDDTYVLSMLKTVKIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

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

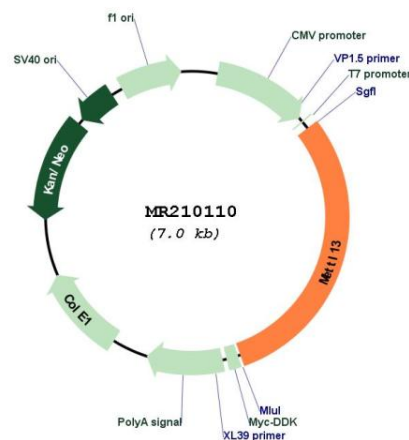
UniProt ID: [Q91YR5](#)

Cytogenetics: 1 H2.1

MW: 78.8 kDa

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 MR210110