

## Product datasheet for MR218737

### Nemf (NM\_025441) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nemf (NM_025441) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nemf
Synonyms:	1500011I12Rik; 4933405E14Rik; Sdccag1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218737 representing NM_025441 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGAGCCGGTTCAGCACGGTTGACCTCCGCGCAGTGCTCGCGGAACGAATGCGAGCTTGCTAGGAA  
TGAGAGTAAACAACGTTTATGATGTGGATAACAAGACATATCTTATTCGGCTTCAAAAACCTGATTTTAA  
AGCTACACTGTTACTTGAGTCTGGTATACGTATTCATACAACAGAATTTGAGTGGCCTAAGAACATGATG  
CCGTCGAGTTTTGCCATGAAGTGTGAAAACATTTGAAGAGTCGGAGATTAGTCAGTGCAAAACAGCTTG  
GTGTGGACAGAATTGTGGATTTCCAGTTTGAAGAGTACGAAGCTGCTTATCACTTAATCATTGAGCTCTA  
TGACAGGGGGAACATTGTTCTTACAGATTATGAGTACCTAATTTTAAATATCCTAAGGTTTTCGAACTGAT  
GAAGCAGATGATGTTAAGTTTGCTGTTCTGTAACGCTATCCCATAGATCATGCCAGAGCTGCTGAACCTT  
TGCTGACTTTGGAAAGGTTGACTGAAGTAATAGCTGCTGCTCCTAAAGGTGAAGTGTGAAGAGATTCT  
TAACCCATTACTTCCCTATGGACCAGCTCTTATTGAGCACTGTCTTATAGAAAAGTGGATTCTCTGGCAAT  
GCTAAAGTGGATGAAAACTTGAGAGCAAAGATATTGAAAAGATACTGGTTTGTGTACAGAGGGCAGAAG  
ACTATTTGAGGAAAACATCCAACCTCAATGGAAGGGCTATATAATTGAGAAAAGAGAGGGCAAAACCAAG  
CCTGGATGCAGATAAACCAGCTGAAGACATACTCACGTATGAGGAGTTTCATCCTTTCTTGTTTTCTCAG  
CATTTACAATGTCCATATATAGAATTTGAATCATTGACAAGGCCGTTGGATGAATTTTATTCCAAGATAG  
AAGGGCAGAAAAATTGACTTAAAAGCTTTACAACAGGAAAAACAAGCACTGAAGAAATTAGATAATTGTCGG  
AAAGGATCATGAAAACAGATTAGAAGCTTTCAGCAGGCTCAGGAAATTGATAAACTGAAAGGGGAGCTC  
ATAGAGATGAACCTGCAGATAGTGGACAGAGCCATTGAGGTAGTCCGAAGTGCCTTGCCAAACCAGATAG  
ACTGGACAGAAATCGGAGTGATTGTGAAAGAAGCTCAAGCTCAAGGAGACCCGGTTGCATGTGCAATCAA  
AGAGCTAAAACAGCAACCAACCACGTTACGATGCTGCTACGAAATCCATACTTGTATCAGAGGAGGAA  
GATGGTGTGTTGATGCCAGCATTGAGAACAGTGTGCTGAAGCACCAAAAGGGAAAAAAGCAAA  
AGAACAAGCAGCTGCAGAAGCCGAGAAGAACAAGCCGCTGCTTGTAGATGTGGATCTCAGCCTGTCAGC  
CTATGCCAATGCCAAAAATATTATGATCATAAGAGGTATGCTGCTAAAAAACCAGAGGACTGTTGAA



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GCTGCTGAGAAGGCATTCAAATCAGCAGAAAAGAAAACAAAGCAAACCTTAAAAGAAGTACAAACAGTTA  
 CTTCTATCCAAAAAGCAAGAAAAGTGTATTGGTTTGAGAAATTTCTGTGGTTTCATTAGTTCAGAGAACTA  
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 GGAAGCTTCATGATAAGAGGAAAAAAGAAATTTCTTCTTCCATACCTAATGATGGGGTTTAGCTTCC  
 TTTTTAAGGTAGATGAGTCTTGTCTGGAGACATCGAGGTGAACGAAAAGTCAGAGTGCAGGATGAAGA  
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 CAAATGACAGTAAATCACAGGGCCGAAGACATTTGTGAGCAAGGAGAGAAGAGAATGAAAAAGAAAA  
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 GTGAAAAAACCCACAGAAACCAAGAGGTGGACAGCGGGTTTTAGATGTTGTTAAAGAAGTCCGTCCT  
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 TCTGGATCAGCAGGGGATGAGGAAAATCTATTTGACTCTTTGACAGGGCAGCCACATCTGAGGATGTA  
 CTGATGTTTGCTATTTCAATATGTGCCCTTACACCATCATGACAACTATAAATACAAAGTGAAGTAA  
 CACTGGAGTTGAGAAAAGGGGAAAGCTGCGAAGACAGCCTTGAACAGTTTTCATGCACTCCAAAGAAGC  
 CACAGCAAGAGAAAAGACTTATTCGAAGTGTGAAGGACACAGATTTATCAAGAAACATTCTGGAAAA  
 GTAAAAGTGTCCGCACCTAATCTTCTGCATGTGAAGAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218737 representing NM\_025441  
 Red=Cloning site Green=Tags(s)

MKSRFSTVDLRAVLAELNASLLGMVRNNVYDNDNKTYLIRLQKPDFKATLLLESGIRIHTTEFEWPKNMM  
 PSSFAMKCRKHLKSRRLVSAKQLGVDRIVDFQFGSDEAAYHLIIELYDRGNIVLTDYEYLILNILRFRTD  
 EADDVKFAVRERYPIDHARAAEPLLTLERLTEVIAAPKGEVLKRVLNPLLPYGPALIEHCLIESGFSGN  
 AKVDEKLESKDIEKILVCVQRAEDYLKRTSNFNGKGYIIQKREKPSLDADKPAEDILTYEEFHPFLFSQ  
 HLQCPYIEFESFDKAVDEFYSKIEGQKIDLKALQEQKQALKKLDNVRKDHENRLEALQQAQEIIDLKLGEL  
 IEMNLQIVDRAIQVRSALANQIDWTEIGVIVKEAQAQGDVPVACAIKELKLQTNHVMTLLRNYPYLLSEEE  
 DGDGDASIENSDAEAPKGGKKKQKNKQLQKPQKNKPLLVDVDLSAYANAKKYDHRKRYAAKKTQRTVE  
 AAEKAFKSAEKKTKQTLKEVQTVTSIQKARKVYWFEEKFLWFISSENYLIIIGGRDQQQNEIIVKRYLTPGD  
 IYVHADLHGATSCVIKNPTGEPIPPRTLTEAGTMALCYSAAWDARVITSAWWVYHHQVSKTAPTGEYLT  
 GSFMIRGKKNFLPPSYLMMGFSFLFKVDESCVWRHRGERKVRVQDEDMETLTSCTSELMAEEMEQLLEGGD  
 SSEEETEELHGMPGDVELMTQVDQEDIIVHSGRDELSSEDGEAKAVTKDQEPIGEMKEEEDTFEYDPTT  
 IDLSHLQSQRPLQKLAPREESLNSNDSKSGRRHL SAKERREMKKKLPCESGDLEVIIEEKDERESAVH  
 TEAYQNTSKNVAAGQPMKRGQKSKMKMKMEKYKDQDEDEDRELIMKLLASAGSNKEEKGGKGGKPKDEP  
 VKKPPQKPRGGQRVLDVVKPEPSSLQVLAHDLQDLAVDDPHDDKEEHLDDQQGNEENLFDLSLTGQPHPELV  
 LMF AIPICAPYTIMTNYKYVKLTPGVQKKGAAKTALNSFMHSKEATAREKDLFRSVKDTDL SRNIPGK  
 VKVSAPNLLHVKRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_025441

ORF Size: 3192 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: [NM\\_025441.3](#), [NP\\_079717.2](#)

RefSeq Size: 3737 bp

RefSeq ORF: 3195 bp

Locus ID: 66244

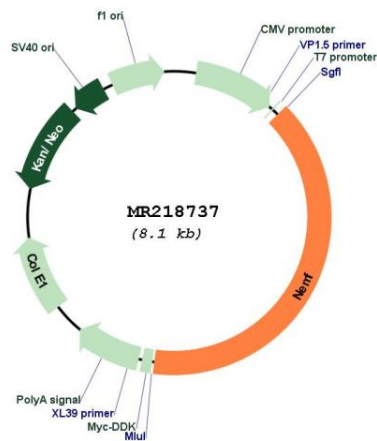
UniProt ID: [Q8CCP0](#)

Cytogenetics: 12 C2

MW: 121.2 kDa

**Gene Summary:** Component of the ribosome quality control complex (RQC), a ribosome-associated complex that mediates ubiquitination and extraction of incompletely synthesized nascent chains for proteasomal degradation. NEMF is responsible for selective recognition of stalled 60S subunits by recognizing an exposed, nascent chain-conjugated tRNA moiety. Nemf is important for the stable association of Ltn1 to the complex. May indirectly play a role in nuclear export.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR218737