

Product datasheet for **MG218737**

Nemf (NM_025441) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nemf (NM_025441) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nemf
Synonyms:	1500011I12Rik; 4933405E14Rik; Sdccag1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218737 representing NM_025441 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAGCCGGTTCAGCACGGTTGACCTCCGCGCAGTGCTCGCGGAACGAATGCGAGCTTGCTAGGAA
TGAGAGTAAACAACGTTTATGATGTGGATAACAAGACATATCTTATTCGGCTTCAAAAACCTGATTTTAA
AGCTACACTGTTACTTGAGTCTGGTATACGTATTCATACAACAGAATTTGAGTGGCCTAAGAACATGATG
CCGTCGAGTTTTGCCATGAAGTGTGAAAACATTTGAAGAGTCGGAGATTAGTCAGTGCAAAACAGCTTG
GTGTGGACAGAATTGTGGATTTCCAGTTTGAAGAGTACGAAGCTGCTTATCACTTAATCATTGAGCTCTA
TGACAGGGGGAACATTGTTCTTACAGATTATGAGTACCTAATTTAAATATCCTAAGGTTTTCGAAGCTGAT
GAAGCAGATGATGTTAAGTTTGCTGTTCTGTAACGCTATCCCATAGATCATGCCAGAGCTGCTGAACCTT
TGCTGACTTTGGAAAGGTTGACTGAAGTAATAGCTGCTGCTCCTAAAGGTGAAGTGTGAAGAGATTCT
TAACCCATTACTTCCCTATGGACCAGCTCTTATTGAGCACTGTCTATAGAAAAGTGGATTCTCTGGCAAT
GCTAAAGTGGATGAAAACTTGAGAGCAAAGATATTGAAAAGATACTGGTTTGTGTACAGAGGGCAGAAG
ACTATTTGAGGAAAACATCCAACCTCAATGGAAGGGCTATATAATTGAGAAAAGAGAGGGCAAAACCAAG
CCTGGATGCAGATAAACCCAGCTGAAGACATACTCACGTATGAGGAGTTTCATCCTTTCTTGTTTTCTCAG
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GCTGCTGAGAAGGCATTCAAATCAGCAGAAAAGAAAACAAGCAAACCTTAAAAGAAGTACAAACAGTTA
CTTCTATCCAAAAAGCAAGAAAAGTGTATTGGTTTGTAGAAATTTCTGTGGTTTCATTAGTTCAGAGAACTA
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TGCAGGTTTTAGCTCATGACTTACAAGACTTAGCTGTCCATGATGACAAGGAGGAAACACGTA
TCTGGATCAGCAGGGGAAAGAGGAAAATCTATTGACTCTTTGACAGGGCAGCCACATCTGAGGATGTA
CTGATGTTGCTATTCCAATATGTGCCCTTACACCATCATGACAACTATAAATACAAAGTGAAGTAACTTA
CACCTGGAGTTCAGAAAAGGGGAAAGCTGCAGAGCACGCCTTGAACAGTTTTATGCACCTCAAAGAAGC
CACAGCAAGAGAAAAGACTTATCCGAAAGTGTGAAGGACACAGATTTATCAAGAAACATTCTCTGAAAA
GTAAGAAGTGCCGCACCTAATCTTCTGCATGTGAAGAGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218737 representing NM_025441
Red=Cloning site **Green**=Tags(s)

MKSRFSTVDLRAVLAELNASLLGMRVNNVYDNDKTYLIRLQKPDFKATLLLESGIRIHTTEFEWPKNMM
PSSFAMKCRKHLKSRRLVSAKQLGVDRIVDFQFGSDEAYHLIIELYDRGNIVLTDYEYILNINLRFRTD
EADDVKFAVRERYPIDHARAAEPLLTLERLTEVIAAAPKGEVLKRVLNPLLPYGPALIEHCLIESGFSGN
AKVDEKLESKDIEKILVCVQRAEDYLRKTSNFGNGYIIQKREAKPSLDADKPAEDILTYEEFHPFLFSQ
HLQCPYIEFESFDKAVDEFYSKIEGQKIDLKALQQEKQALKKLDNVRKDHENRLEALQQAQEIDKLGEL
IEMNLQIVDRAIQVRSALANQIDWTEIGVIVKEAQAQGDVPVACAIKELKLTQNHVTMLLRNPYLLSEEE
DGDGDASIENSDAEAPKGGKKKQKQKQKQKQKPLLVDDLSL SAYANAKKYDHHKRYAAKKTQRTVE
AAEKAFKSAEKKTKQTLKEVQTVTSIQKARKVYWFEEKFLWFISSENYLIIGGRDQQNEIIVKRYLTPGD
IYVHADLHGATSCVIKNPTGEPPIPRRTLTEAGTMALCYSAAWDARVITSAWVYHHQVSKTAPTGEYLTT
GSFMIRGKKNFLPPSYLMMGFSLFKVDESCVWRHRGERKVRVQDEDMETLT SCTSELMAEEMEQLEGGD
SSEEEETEELHGMPGDVELMTQVDQEDIIVHSGRDELSEEDGEKAVTKDQEPDIGEMKEEEEDTTEYPTTT
IDL SHLQSQRPLQLAPREE SLNSNDSKQGRRLHSAKERREM KKKLPCESGDLEVIEEKDKERESAVH
TEAYQNTSKNVAAGQPMKRGQKSKMKMKEKYKDQDEDERELIMKLLASAGSNKEEKGGKGGKGPDEP
VKKPPQKPRGGQRVLDVKEPPSLQVL AHDLQDLAVDDPHDDKEEHLDDQQGNEENLFDSL TQPHPEDEV
LMFAIPICAPYTIMTNYKYVKLTPGVQKKGKAAKTALNSFMHSKEATAREKDLFRSVKDTL SRNIPGK
VKV SAPNLLHV KRK

TRTRPLE - GFP Tag - V

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 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: 3720 bp

RefSeq ORF: 3195 bp

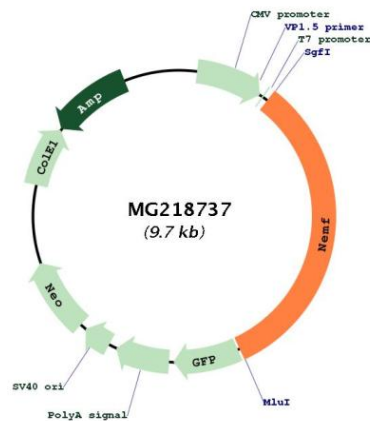
Locus ID: 66244

UniProt ID: [Q8CCP0](#)

Cytogenetics: 12 C2

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 MG218737