

Product datasheet for **RG216806**

NEMF (NM_004713) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEMF (NM_004713) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEMF
Synonyms:	IDDSAPN; NY-CO-1; SDCCAG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216806 representing NM_004713 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGAGCCGCTTTAGCACCATTGACCTCCGCGCCGTAAGCTCGCGGAGCTGAATGCTAGCTTGTAGGAA
TGAGAGTAAACAATGTTTATGATGTGGATAATAAGACATACCTTATTCGCTTCAAAAACCGGACTTTAA
AGCTACACTTTTACTTGAATCTGGCATAACGAATTCATACAACAGAATTTGAGTGGCCTAAGAATATGATG
CCGTCTAGTTTTGCCATGAAGTCCGAAAACATTTGAAGAGTCGGAGATTAGTCAGTGCAAAACAGCTTG
GTGTGGATAGAATTGTAGATTTTCAATTTGGAAGTGATGAAGCTGCTTACCATTTAATCATTGAGCTCTA
TGATAGGGGGAACATTGTTCTTACAGATTATGAGTACGTAAATTTAAATATTCTAAGGTTTTCGAAGCTGAT
GAGGCAGATGATGTTAAATTTGCTGTTCTGTAACGCTATCCACTTGATCATGCTAGAGCTGCTGAACCTT
TGCTTACTTTGGAAAGGTTGACTGAAATAGTAGCCAGCGCACCTAAGGGTGAAGTACTGAAGAGGGTGCT
TAACCCATTACTTCCCTATGGACCAGCTCTCATTGAACACTGTCTTTAGAAAATGGATTCTCGGGTAAT
GTCAAAGTGGATGAAAACTTGAAGTAAAGATATTGAAAAAGTACTTGTCTCTGCAGAAAGCAGAAG
ACTATATGAAAACAACATCCAATTCAGTGGGAAGGGATATATCATTAGAAAAGAGAAAATAAACCATG
CTTGAAGCAGATAAACAGTTGAAGACATACTGACGTATGAGGAATTTATCCTTTCTGTTTTCTCAA
CATTACAATGTCCATATATAGAATTTGAATCATTGACAAGGCGTGGATGAATTTTATCCAAGATAG
AAGGCCAGAAAATTGACTTAAAAGCTTTACAACAGGAAAAGCAAGCATTGAAGAAATTAGATAATGTTCCG
AAAGGATCACGAAAACAGATTGGAAGCTTTCAGCAGGCTCAGGAAATAGACAAAAGTAAAGGAGAGCTC
ATAGAAAATGAACCTACAAATAGTTGACAGAGCCATTGAGGTAGTTCGAAGTGCTTTAGCTAACAGATAG
ATTGGACAGAAAATGGGTTAATTGTGAAAGAAGCCAGGCTCAAGGAGACCCTGTTGCAAGTGCAATCAA
AGAATTAAGTACAAACAACCATGTTACAATGCTGCTAAGAAATCCATACTTGTATCAGAGGAGGAA
GATGATGATGTTGATGGTACGTCATGTTGAGAAAAATGAAACTGAACCACCAAAAGGAAAAAAGAAAA
AACAAAAGAATAAACAGCTGCAGAAGCCTCAGAAAAATAAGCCCTTACTTGTAGATGTTGATCTCAGCTT
GTCAGCATATGCCAATGCCAAAAAGTATTATGATCACAAGAGATATGCTGCTAAGAAAACACAAAAGACT



[View online »](#)

GTTGAAGCTGCTGAGAAGCATTCAAGTCAGCAGAAAAGAAAACAAAGCAAACATTAAAAGAAGTTCAGA
 CTGTTACCTCTATTCAAAAAGCAAGAAAAGTATATTGGTTTGAGAAATTTCTGTGGTTCATTAGCTCAGA
 GAACTATCTAATTATAGGTGGACGAGATCAGCAACAGAATGAAATAATTGTGAAAAGATACTTGACACCA
 GGAGACATTTATGTACATGCTGATCTTCATGGAGCTACTAGCTGTGTAATTAAGAATCCAACAGGAGAAC
 CCATCCCCCACGGACCTTGACTGAAGCTGGCACAATGGCACTTTGCTACAGTGTGCTTGGGATGCACG
 AGTTATCACTAGTGTGGTGGGTGTACCATCATCAGGTATCTAAAACAGCACCACCTGGAGAATATTTG
 ACAACAGGAAGCTTCATGATAAGAGGAAAAAAGAAATTTTCTCCTCATATATGATGGGTTTA
 GCTTCCTTTTTAAGGTAGATGAGTCTTGTGTTTGGAGACATCAGGGTGAACGAAAAGTCAGAGTACAGGA
 TGAAGACATGGAGACACTGGCAAGTTGTACAAGTGAACCTCATATCAGAAGAAATGGAACAATTAGATGGA
 GGTGACACGAGCAGTGATGAGGATAAAGAAGAACATGAACTCCTGTGGAAGTAGAACTCATGACTCAGG
 TTGACCAAGAGGATATCACTCTTCAGAGTGGCAGAGATGAACTAAATGAGGAGCTCATTGAGGAGAAAAG
 CTCTGAAGACGAAGGAGAATATGAAGAGGTTAGAAAAGATCAGGATTCTGTTGGTGAATGAAGGATGAA
 GGGGAAGAGACATTAATATCCTGATACTACCATTGACTTGCTCACCTCAACCCCAAAGGTCCATCC
 AGAAATTTGGCTTCAAAGAGGAATCTTCTAATTCTAGTGACAGTAAATCACAGAGCCGGAGACATTTGTC
 AGCCAAGGAAAGAGGAAATGAAAAGAAAAAATCTCAAGTGACTCAGGAGATTTAGAAGCGTTAGAG
 GGAAAGGATAAAGAAAAAGAAAGTACTGTACACATTGAAACTCATCAGAACACAAGCAAAAATGTTGCGG
 CTGTGCAGCCAATGAAACGAGGACAAAAGAGTAAATGAAAAAATGAAAGAAAAATACAAAGACCAGGA
 TGAAGAAGACCGTGAACCTATCATGAAGTTGCTGGGGTCTGCAGGTTCAAACAAAGAAAAAGGGAAG
 AAGGGGAAGAAAGGAAAAAACAAGGACGAACCTGTGAAGAAACAGCCCCAGAAACCTAGAGGTGGACAGA
 GGGTCTCTGACAACATTAAGAAAGAACTCCGTTCTTGGAGTTAATACTCATGAGTTACAAGACTTTGC
 TGTAGATGATCCACATGATGACAAGGAAGCAAGATCTGGATCAACAGGGAATGAGGAAAACTATTT
 GATTCTTTGACAGGCCAGCCACATCTGAAGATGTACTACTGTTGCCATTCCAATATGTGCCCTTACA
 CCACCATGACAACTACAATATAAAGTAAACTTACTCCTGGAGTGCAGAAAAAGGGAAGGAGCTGCAAA
 AACACGCTTGAATAGTTTATGCATTCCAAAGAAAGCAACAGCAAGAGAAAAAGACTTATTCGCGAGGTA
 AAGGACACAGATTTATCAAGAAACATTCCTGGCAAAGTAAAGTGTCTGCACCAATCTTCTGAACGTAA
 AAAGGAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216806 representing NM_004713
 Red=Cloning site Green=Tags(s)

MKSRFSTIDLRAVLAELNASLLGMRVNNVYDNDNKTYLIRLQKPDFKATLLLESGIRIHTTEFEWPKNMM
 PSSFAMKCRKHLKSRRLVSAKQLGVDRIVDFQFGSDEAAYHLIIELYDRGNIVLTDYEVYILNILRFRTD
 EADDVKFAVRERYPLDHARAAEPLLTLERLTEIVASAPKGELLKRVLNPLLPYGPALIEHCLLENGFSGN
 VKVDEKLETKDIEKVLVSLQKAEDYMKTTSNFSGKGYIIQKREIKPCLEADKPVEDILTYEEFHPFLFSQ
 HSQCPYIEFESFDKAVDEFYSKIEGQKIDLKALQEQKQALKKLDNVRKDHENRLEALQQAQEIIDLKKGEL
 IEMNLQIVDRAIQVRSALANQIDWTEIGLIVKEAQAQGDVVASAIKELKLQTNHVMTLLRNYPYLLSEEE
 DDDVDGDVNVKNETEPPKGGKKKQKNKQLQKPKKNKPLLVDVDSL.SAYANAKKYYDHKRYAAKKTQKT
 VEAAEKAFKSAEKKTKQTLKEVQTVTSIQKARKVYWFEFKFLWFISSENYLIIGGRDQQQNEIIVKRYLTP
 GDIYVHADLHGATSCVIKNPTGEPPIPPRTLTEAGTMALCYSAAWDARVITSAWWVYHHQVSKTAPTGEYL
 TTGFSMIRGKKNFLPPSYLMMGFSLFKVDESCVWRHQGERKVRVQDEDMETLASCTSELISEEMEQLDG
 GDTSSDEDKEEHETPVEVELMTQVDQEDITLQSGRDELNEELIQEESSEDEGEYEEVRKDQDSVGMKDE
 GEETLNYPDITIDLSHLQQRSIQKLASKEESSNSSDSKSQSRRHL SAKERREMKKKLPDSGDLLEALE
 GKDKKESTVHIETHQNTSKNVAAVQPMKRGQKSKMKMKMEKYKDQDEEDRELIMKLLGSAGSNKEEKGK
 KGKKGKTKDEPVKKQPKPRGGQRVSDNIKKETPFLEVI THELQDFAVDDPHDDKEEQDLQDQGGNEENLF
 DSLTGQPHPEDVLLFAIPICAPYTTMTNYYKVKLTPGVQKKGKAAKTALNSFMHSKEATAREKDLFRSV
 KDTDL SRNIPGKVKVSAPNLLNVKRK

TRTRPLE – GFP Tag – V

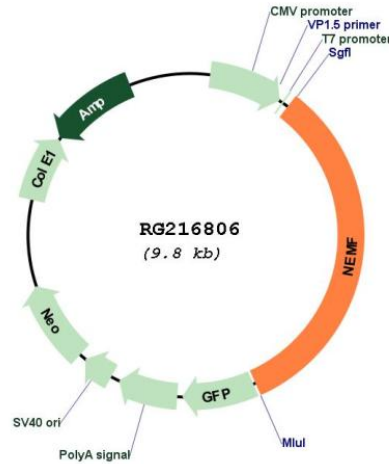
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004713

ORF Size: 3228 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:	<ol style="list-style-type: none">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:	<u>NM_004713.5</u> , <u>NP_004704.2</u>
RefSeq Size:	4136 bp
RefSeq ORF:	3231 bp
Locus ID:	9147
UniProt ID:	<u>O60524</u>
Cytogenetics:	14q21.3
Gene Summary:	This gene encodes a component of the ribosome quality control complex. The encoded protein facilitates the recognition and ubiquitination of stalled 60S subunits by the ubiquitin ligase listerin. A similar protein in fly functions as a tumor suppressor. [provided by RefSeq, Jul 2016]