OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG216618

NOM1 (NM_138400) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NOM1
Synonyms:	C7orf3; PPP1R113; SGD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG216618 representing NM_138400
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGTCCAGGAGCGCGGGAGAGGCCGGCCCGGGCGGCTCCCAGGGACGCGTGGTCCGCATGAAGC
GCAGAGGCGGGCGCGGGCCGCGCCGCGGTCCTGCTGGCGGTGGGGAGAAGGCCCTGAAGAGGCTGAAGCT
AGCGGTGGAGGAGTTCGTGCACGCGACTTCGGAAGGCGAGGCTCCCGGGGGTTGCGAGGGGCGCGGCGCC
CCGGTGAGCTTTCGCCCGGGAGGGAGAAAAAGCCGTAAGGAACTGAGGAAGGAGAAGCGGCACCTGCGGA
AAGCACGCCGGCTGCAGAGGACGGCGGGCCCCGAACAGGGTCCCGGCCTGGGAGGCCGAAGCGGAGCCGA
AGAAGCCAGCGGTCACCGGCAGGACACGGAGGAGCGCGCCCGCCCAGCCCCTAGTCGGGACCCCTCGCCT
CCCAGGAAGCCGCGGCCGTCCCGGGTCAAGGCCAAGGCCACGGCCGCCACCGCAAAGACCAGACCCTCCG
CAGCCGCCACCGCCGCTGCCCGGAAACGGGCGCTTTTAGCGGCGAACGAGGAGGAGGACCGAGAGATCCG
AAAGCTGGAGCGTTGCCTCGGTTTGAACAAGCGCAAAAAGAAGGACGGCAGCAGCTCCGTGCCGCTGAGC
TTTGCACGCGACGGTCTTGACTATATTCTGGGAGCCCTGGAGTCTGGGAAAAATAGCGGCTTGTACGACA
GCAGTGGTGAGGAGGAGGAAGATGCCGGACAGACACTCCCCGAAAGTGACTTAGAGAGTGACTCCCAGGA
CGAAAGTGAGGAGGAGGAGGAGGGAGACGTAGAAAAGGAAAAGAAGGCGCAGGAAGCAGAAGCGCAGAGC
GAGGACGACGACGAGGATACAGAAGAGGAACAGGGGGAAGAAAAGGAAAAGGGAGCGCAGGAGAAAAGGA
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CGAGTTTCAGGACCAGACCAGGATTCGGTTTATGCTAGAGACGATGTTGGCCCTGAAGAACAATGACATG
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ACGCCGGCTCAGGTTCTGAGACGCAGCTTCGCGTCTCCTGGGACAGTGTCTTGAGTGCGGAGCAGACGGG
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CAGAAGCAGCTTGTGGGGACGGTCAGTTCAAAGATCCTAGAACTCGCCCGGAAGCAGAGGATGAACACAG
ACATCCGGAGAAACATATTCTGCACAATAATGACAAGTGAAGATTTTTTGGATGCTTTTGAAAAGCTTCT
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CTGAGAGAGAAAGCTGACCTTGCAACGAAGTGTCTGCAAGGAAAAGCTTCCCTGAGAATG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

>RG216618 representing NM_138400
Red=Cloning site Green=Tags(s)

MAASRSAGEAGPGGSQGRVVRMKRRGGRGPRRGPAGGGEKALKRLKLAVEEFVHATSEGEAPGGCEGRGA
PVSFRPGGRKSRKELRKEKRHLRKARRLQRTAGPEQGPGLGGRSGAEEASGHRQDTEERARPAPSRDPSP
PRKPRPSRVKAKATAATAKTRPSAAATAAARKRALLAANEEEDREIRKLERCLGLNKRKKKDGSSSVPLS
FARDGLDYILGALESGKNSGLYDSSGEEEEDAGQTLPESDLESDSQDESEEEEEGDVEKEKKAQEAEAQS
EDDDEDTEEEQGEEKEKGAQEKRRGKRVRFAEDEEKSENSSEDGDITDKSLCGSGEKYIPPHVRQAEETV
DFKKKEELERLKKHVKGLLNRLSEPNMASISGQLEELYMAHSRKDMNDTLTSALMGACVTASAMPSRLMM
EHVLLVSILHHTVGIEVGAHFLEAVVRKFDAIYKYGSEGKECDNLFTVIAHLYNFHVVQSLLIFDILKKL
IGTFTEKDIELILLMLKNVGFSLRKDDALSLKELITEAQTKASGAGSEFQDQTRIRFMLETMLALKNNDM
RKIPGYDPEPVEKLRKLQRALVRNAGSGSETQLRVSWDSVLSAEQTGRWWIVGSAWSGAPMIDNSHHTHL
QKQLVGTVSSKILELARKQRMNTDIRRNIFCTIMTSEDFLDAFEKLLKLGLKDQQEREIIHVLMDCCLQE
KTYNPFYAFLASKFCEYERRFQMTFQFSIWDKFRDLENLPATNFSNLVHLVAHLLKTKSLSLSILKVVEF
SELDKPRVRFLRKVLSILLMETEVEDLSLIFTRVSDNPKLGVLREGLKLFISHFLLKNAQAHRSADEANV
LREKADLATKCLQGKASLRM

SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

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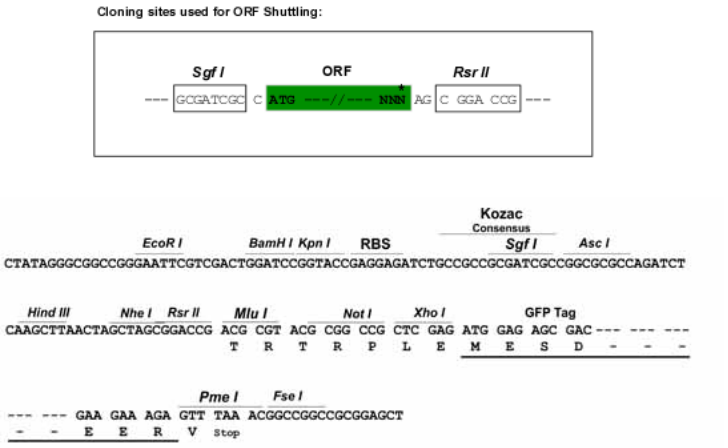
Cloning Scheme:



ACCN: NM_138400

ORF Size: 2580 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.

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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_138400.2

RefSeq Size: 6082 bp

RefSeq ORF: 2583 bp

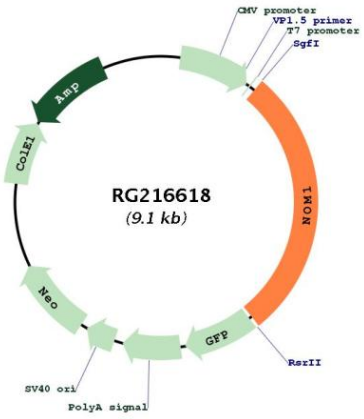
Locus ID: 64434

UniProt ID: Q5C9Z4

Cytogenetics: 7q36.3

Gene Summary: Proteins that contain MIF4G (middle of eIF4G (MIM 600495)) and/or MA3 domains, such as NOM1, function in protein translation. These domains include binding sites for members of the EIF4A family of ATP-dependent DEAD box RNA helicases (see EIF4A1; MIM 602641) (Simmons et al., 2005 [PubMed 15715967]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG216618

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