

Product datasheet for **RG204876**

MUM1 (IRF4) (NM_002460) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUM1 (IRF4) (NM_002460) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MUM1
Synonyms:	LSIRF; MUM1; NF-EM5; SHEP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204876 representing NM_002460
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCTGGAGGGCGGCCGAGGCGGAGAGTTCGGCATGAGCGCGGTGAGCTGCGGCAACGGGAAGC
 TCCGCCAGTGGCTGATCGACCAGATCGACAGCGCAAGTACCCCGGCTGGTGTGGGAGAACGAGGAGAA
 GAGCATCTCCGCATCCCTGGAAGCACGCGGCAAGCAGGACTACAACCGCAGGAGGACGCCGCGCTC
 TTCAAGGCTTGGGCACTGTTAAAGAAAGTTCGAGAAGGCATCGACAAGCCGACCTCCACCTGGA
 AGACGCGCTGCGGTGCGCTTTGAACAAGGCAATGACTTTGAGGAACTGGTTGAGCGGAGCCAGCTGGA
 CATCTCAGACCCGTACAAAGTGTACAGGATTGTTCTGAGGGAGCCAAAAAGGAGCCAAGCAGCTCACC
 TTGGAGGACCCGAGATGTCATGAGCCACCCCTACACCATGACAACGCCTTACCCTTCGCTCCAGCCC
 AGCAGGTTCAACTACATGATGCCACCCCTCGACCGAAGCTGGAGGGACTACGTCGCGGATCAGCCACA
 CCCGAAATCCCGTACCAATGTCCATGACGTTTGGACCCGCGGCCACCACTGGCAAGGCCAGCTTGT
 GAAATGGTTGCCAGGTGACAGGAACCTTTTATGCTTGTGCCCCACCTGAGTCCCAGGCTCCCGGAGTCC
 CCACAGAGCCAAGCATAAGGTCTGCCGAAGCCTTGGCGTTCTCAGACTGCCGGCTGCACATCTGCCTGTA
 CTACCGGAAATCCTCGTGAAGGAGCTGACCACGTCCAGCCCCGAGGGCTGCCGGATCTCCCATGGACAT
 ACGTATGACGCCAGCAACCTGGACCAGTCTGTTCCCTACCCAGAGGACAATGGCCAGAGGAAAAACA
 TTGAGAAGCTGCTGAGCCACCTGGAGAGGGCGTGGTCTCTGGATGGCCCCGACGGGCTCTATGCGAA
 AAGACTGTGCCAGAGCAGGATCTACTGGACGGGCCCCGGCGCTGTGCAACGACCGGCCAACAAACTG
 GAGAGAGACCAGACCTGCAAGCTCTTTGACACACAGCAGTCTTGTGAGAGCTGCAAGCGTTTGTCCACC
 ACGGCCGCTCCCTGCCAAGATTCAGGTGACTCTATGCTTTGGAGAGGAGTTTCCAGACCCCTCAGAGGCA
 AAGAAAGCTCATCACAGCTCACGTAGAACCTCTGCTAGCCAGACAATATATTATTTGCTCAACAAAAAC
 AGTGGACATTTCTGAGGGGCTACGATTTACCAGAACACATCAGCAATCCAGAAGATTACCACAGATCTA
 TCCGCCATTCTCTATTCAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204876 representing NM_002460
 Red=Cloning site Green=Tags(s)

MNLEGGGRGGEFGMSAVSCGNGKLRQWLIDQIDSGKYPGLVWENEKSI FRIPWKHAGKQDYNREEDAAL
 FKAWALFKGK FREGIDKDPPTWKTRLRCALNKSND FEELVERSQLDISDPYKVYRIVPEGAKKGAKQLT
 LEDPQMSMHPYMTTPYPSLPAQVHNYMPPLD RSWRDYVPDQPHPEIPYQCPMTFGPRGHHWQGPAC
 ENG CQVTGT FYACAPPESQAPGVPT EPSIRSAEALAFSDCRLHICLYREILVKELTSSPEGCRI SHGH
 TYDASNLDQVLPYPEDNGQRKNIEKLLSHLERGVVLMAPDGLYAKRLCQSRIYWDGPLALCND RPNKL
 ERDQTCKLFD TQQFLSELQAF AHHGRSLPRFQVTL CFGEFPDPQRQRKLITAHVEPLLARQLYYFAQQN
 SGHFLRGYDLPEHISNPEDYHRSIRHSSIQE

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_002460

ORF Size: 1353 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).

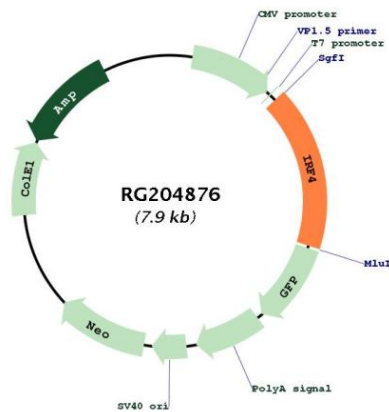
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_002460.1](#), [NP_002451.1](#)

RefSeq Size: 5065 bp
RefSeq ORF: 1356 bp
Locus ID: 3662
UniProt ID: [Q15306](#)
Cytogenetics: 6p25.3
Protein Families: Druggable Genome, Transcription Factors

Gene Summary: The protein encoded by this gene belongs to the IRF (interferon regulatory factor) family of transcription factors, characterized by a unique tryptophan pentad repeat DNA-binding domain. The IRFs are important in the regulation of interferons in response to infection by virus, and in the regulation of interferon-inducible genes. This family member is lymphocyte specific and negatively regulates Toll-like-receptor (TLR) signaling that is central to the activation of innate and adaptive immune systems. A chromosomal translocation involving this gene and the IgH locus, t(6;14)(p25;q32), may be a cause of multiple myeloma. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2010]

Product images:



Circular map for RG204876