

Product datasheet for **SC319658**

MUM1 (IRF4) (NM_002460) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUM1 (IRF4) (NM_002460) Human Untagged Clone
Tag:	Tag Free
Symbol:	MUM1
Synonyms:	LSIRF; MUM1; NF-EM5; SHEP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002460.1
 CTCCGAGTCCAGGGCGAGTGCAGAGCAGAGCGGGCGGAGGACCCCGGGCGGGCGCGGA
 CGGCACGCGGGGCATGAACCTGGAGGGCGGGCCGAGGCGGAGAGTTCCGGCATGAGCGC
 GGTGAGCTGCGGCAACGGGAAGCTCCGCCAGTGGCTGATCGACCAGATCGACAGCGGCAA
 GTACCCCGGGCTGGTGTGGGAGAACCAGGAGAAGAGCATCTTCCGCATCCCCTGGAAGCA
 CGCGGGCAAGCAGGACTACAACCGCGAGGAGACGCCCGCTCTTCAAGGCTTGGGCACT
 GTTTAAAGGAAAGTTCCGAGAAGGCATCGACAAGCCGACCCCTCCACCTGGAAGACGCG
 CCTGCGGTGCGCTTTGAACAAGAGCAATGACTTTGAGGAACTGGTTGAGCGGAGCCAGCT
 GGACATCTCAGACCCGTACAAAGTGTACAGGATTGTTCCCTGAGGGAGCCAAAAAGGAGC
 CAAGCAGCTCACCTTGGAGGACCCGAGATGTCCATGAGCCACCCCTACACCATGACAAC
 GCCTTACCCTTCGCTCCCAGCCAGCAGTTTCACTACATGATGCCACCCCTCGACCG
 AAGCTGGAGGACTACGTCCCGGATCAGCCACACCCGAAATCCCGTACCAATGTCCCAT
 GACGTTTGGACCCCGGGCCACCACTGGCAAGGCCAGCTTGTGAAAATGGTTGCCAGGT
 GACAGGAACCTTTATGCTTGTGCCACCTGAGTCCCAGGCTCCCGGAGTCCCCACAGA
 GCCAAGCATAAGTCTGCCGAAGCCTTGGCGTTCTCAGACTGCCGCTGCACATCTGCCCT
 GTACTACCGGAAATCCTCGTGAAGGAGCTGACCACGTCCAGCCCGAGGGCTGCCGGAT
 CTCCCATGGACATACGTATGACGCCAGCAACCTGGACCAGGTCTCTTCCCTACCCAGA
 GGACAATGGCCAGAGGAAAAACATTGAGAAGCTGCTGAGCCACCTGGAGAGGGGCGTGGT
 CCTCTGGATGGCCCCGACGGGCTCTATGCGAAAAGACTGTGCCAGAGCAGGATCTACTG
 GGACGGGCCCCCTGGCGTGTGCAACGACCGGCCAACAACTGGAGAGAGACCAGACCTG
 CAAGCTCTTTGACACACAGCAGTTCTTGTGAGAGCTGCAAGCGTTTGTCTACCACGGCCG
 CTCCCTGCCAAGATTCAGGTGACTCTATGCTTGGAGAGGAGTTCCAGACCCCTCAGAG
 GCAAAGAAAGCTCATCACAGCTCAGTAGAACCTCTGCTAGCCAGACAACATATATTATT
 TGCTCAACAAAACAGTGGACATTTCTGAGGGGCTACGATTTACCAGAACACATCAGCAA
 TCCAGAAGATTACCACAGATCTATCCGCCATTCCTCTATTCAAGAATGAAAAATGCAAG
 ATGAGTGGTTTTCTTTTTCTTTTTTTTTTTTTTTTATACGGAGATACGGGGTCTTGCT
 CTGTCTCCAGGCTGGAGTGCAGTGACACAATCTCAGCTCACTGTGACCTCCGCCTCTG
 GGTTCAGAGACTCTCTGCCTCAGCTCCCTGGTAGCTGGGATTACAGGTGTGAGCCAC
 TGCACCCACCCAAGACAAGTGATTTTCATTGTAATATTTGACTTTAGTAAAAGCGTCCA
 ATTGACTGCCCTTACTGTTTTGAGGAACTCAGAAGTGGAGATTTAGTTTCCAGCGTTG
 AGGAGAATTGCGCGGAGACAAGCATGAAAATCAGTGACATCTGATTGGCAGATGAGCTT
 ATTTCAAAGGAAGGGTGGCTTTGCATTTCTTGTGTTCTATAGACTGCCATCATTGATGA
 TCACTGTGAAAATTGACCAAGTGATGTGTTTACATTTACTGAAATGCGCTCTTAATTTG
 TTGTAGATTAGGTCTTGCTGGAAGACAGAGAAAACCTTGCCTTTCAGTATTGACACTGACT
 AGAGTGATGACTGCTTGTAGGTATGTCTGTGCCATTTCTCAGGGAAGTAAGATGTAATTT
 GAAGAAGCCTCACACGTAAAAGAAATGTATTAACGTATGTAGGAGCTGCAGTTCTTGTGG
 AAGACACTTGCTGAGTGAAGGAAATGAATCTTTGACTGAAGCCGTGCCTGTAGCCTTGGG
 GAGGCCATCCCCACCTGCCAGCGTTTCTGGTGTGGGTCCCTCTGCTCCCTGTGAAA
 AAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002460

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.