

Product datasheet for **MG225612**

Irgm1 (NM_008326) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irgm1 (NM_008326) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irgm1
Synonyms:	Ifggd3; lfi1; ligp3; lipg3; Irgm; LRG-47
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225612 representing NM_008326 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAACCATCACACAGTTCCTGCGAGGCTGCTCCACTACTCCCCAACATGGCAGAGACCCATTATGCTC
CCCTGAGCTCAGCCTTCCCCTTTGTACGTCATACCAAACAGGCTCCAGCAGGTTACCTGAGGTCAGTAG
GAGCACCGAAAGAGCTTTAAGAGAAGGAAAACACTGGAAGTGGTCTACGGAATCAAGGAGACTGTGGCA
ACATTGTCCCAGATTCCAGTGAGCATCTTTGTGACTGGGACTCTGGCAATGGCATGTCATCTTTTCATCA
ATGCATTCGAGTCATCGCCATGATGAAGATGCCTCGGCTCCCACTGGGTTGGTGGAGACCACGAAGAC
GCGGACTGAGTACTTTCATCCCACTTTCCAATGTGGTGTGGGACTTACCTGGATTGGGGCCACA
GCCCAAACCGTAGAGGACTATGTGGAAGAGATGAAATTTAGCACATGTGACTTATTCATCATCATTGCC
CTGAGCAGTTCAGCTCGAATCATGTGAAGCTGTCCAAAATATCCAGAGCATGGGAAAGAGGTTCTATAT
TGTCTGGACCAAGCTGGACAGGGACCTCAGCACCAGTGCCTATCAGAGGTCGGCTCCTACAGAATATC
CAGGAGAATATCCGAGAGAATCTGCAGAAGGAGAAAGTGAAGTACCCCCCGTGTTCCTGGTATCCAGTC
TAGACCTTTACTATATGACTTCCCGAAGCTTAGGGACACACTTCATAAAGATCTCTCCAACATCAGGTG
CTGTGAACCTTAAAGACCCTTTATGGCACTTATGAGAAGATCGTTGGTGATAAAGTAGCAGTCTGGAAG
CAGAGAATAGCCAACGAGTCTTGAAGAATTCTCTCGGTGTGAGAGATGATGACAACATGGGCGAGTGTG
TGAAAGTGTACCGACTGATATTTGGTGTAGATGACGAATCAGTTCAGCAGGTAGCCAGAGTATGGGGAC
AGTAGTCATGGAGTACAAGGACAACATGAAGTCCCAAACTTTTATACTCTCCGAGAGAGGACTGGAAA
CTGAGGCTGATGACATGTGCAATTGTGAATGCATTCTTCCGTTTGTGAGATTTCTCCCATGCGTATGCT
GCTGTTTAAAGACGCTTGAGACATAAACGCATGCTTTTCTAGTTGCCAGGACACCAAGAACATCTAGA
GAAATCCTGAGGGACTCCATCTTCCCTCCGAGATC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225612 representing NM_008326
 Red=Cloning site Green=Tags(s)

MKPSHSSCEAAPLLPNMAETHYAPLSSAFPVTSYQTGSSRLPEVSRSTERALREGKLELVYGIKETVA
 TLSQIPVSI FVTGDSNGMSSFINALRVIGHDEDASAPTGVVVRTKTRTEYSSSHFPNVLWDLPLGAT
 AQTVEDYVEEMKFSTCDLFI IASEQFSSNHVKLSKIIQSMGKRFYIVWTKLDRDLSTSVLSEVRLLQNI
 QENIRENLQKEKVKYPPVFLVSSLDPLL YDFPKLRDTLHKDL SNIRCCEPLKTL YGTYEKIVGDKVAVWK
 QR IANESLKNLSL GVRDDNMGECLKVYRLIFGVDD SVQQVAQSMGTVMMEYKDNMKSQNFYTLRREDWK
 LRLMTC AIVNAFFRLRLFLPCVCCCLRRLRHKRMFLVAQDTKNILEKILRDSIFPPQI

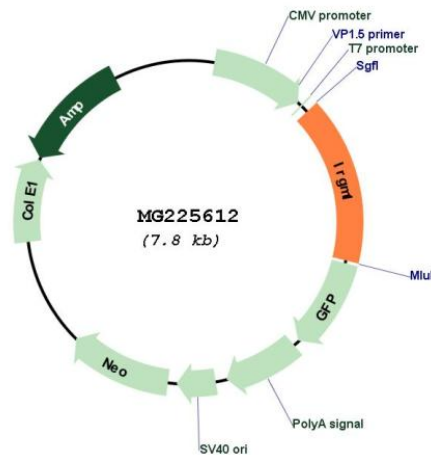
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008326

ORF Size:	1227 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_008326.2
RefSeq Size:	2227 bp
RefSeq ORF:	1230 bp
Locus ID:	15944
UniProt ID:	Q60766
Cytogenetics:	11 B1.2
Gene Summary:	<p>Putative GTPase which is required for IFNG-mediated clearance of acute protozoan and bacterial infections. Functions in innate immune response probably through regulation of autophagy. May regulate proinflammatory cytokine production and prevent endotoxemia upon infection. Required for macrophage motility and possibly also for adhesion.</p> <p>[UniProtKB/Swiss-Prot Function]</p>