

## Product datasheet for RN208492

### Irgm (NM\_001012007) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Irgm (NM_001012007) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Irgm
Synonyms:	lfggd3; lfi1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN208492 representing NM_001012007 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAACCATCACACAAGTCTGCGAGGCTGCTCCACTACTCCCCAAGATGCCAGAGACCAGTACCCATA  
ATGCTCCACTGAACTTGCCTTCCCTCCGTCCTTCATACCAAATAGGCTGTAGCAGTTTGCTGAGAT  
CAGTAGGAGCACTGAAAGAGCTTTAAAAGAAGGAAAACACCGGAACGGTCTATGGAGTCAAGGAGACT  
GTGGCAACATTGTCCCAATCCAGTGAGCATCTTCGTGACTGGGACTCGGGCAATGGCATGTCATCTT  
TCATCAATGCACTTCAATCATTGGCCATGAGGAAGATGCCTCGGCTCCACTGGGGTAGTAAGGACCAC  
CCAGACACGGGCTGAGTACTCCTCATCCCACTTCCCAATGTGGTACTGTGGGACCTACCTGGATTGGGG  
GCCACAGCCCAAACCGTAGAGAATATAGAAGAGATGAAATTCAGTACGTGTGACTTATTCATCATCG  
TCGCTCGGAGCAGTTCAGTCAAATCACGTGAAGCTGGCCAAAATCATCCAGAGCATGGGAAAGAGGTT  
CTATGTCACTGGACCAAGCTGGACCGGACCTCAGCACGAGCGTCTATCAGAGGTCGGCTCATAACAG  
AATATCCAGGAGAATATACGGGAGAATCTCCAGAAGGAGGGAGTGAAGGAAGTCCCATATTCCTAGTAT  
CCAATCTAGACCCTCTCCTGCATGACTTCCCGAATAGGAACACACTCAGACAGACCTGTCCAACAT  
CAGGTGCTGTGAACCTTAAAGACCTTTATGTCAATTTATGAGAAGATCATCGGTGACAAAGTAGCCAAC  
TGAACACAGATAATAGCCAACGGGCGCTTGAAGAGTTCTCCTCGGGGTGAGATGATGATGATGAGGAG  
AGTGTCTGAAAAGGTACCGATTGATATTTGGTATCGATGATGAATCACTCAGCAGATAGCTCACGGTAT  
GGGACAGTAGTCATGGAGTACAAGGCCAACATAAAGTCCCAAGACTTCCACACTCTCCGACAGCGGAC  
TGGAAACTGCGGCTGATGACCTGTACAAGTGAATGCACTCTTCTGTTTGTAAATTTCTCCCGTGT  
TATGCCACTGTTTCAAACGCATGAGACATAAACGCATGCTCCTCTAGTTGCCAAGGACCAAGAACAT  
CCTGAAGAAAATCCTGATGGACGCTGTCTCCACCGCAAATC**TAG**

**ACGGT**ACGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001012007
<b>Insert Size:</b>	1236 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001012007.1</a></u> , <u><a href="#">NP_001012007.1</a></u>
<b>RefSeq Size:</b>	2240 bp
<b>RefSeq ORF:</b>	1236 bp
<b>Locus ID:</b>	303090
<b>UniProt ID:</b>	<u><a href="#">Q6AYC2</a></u>
<b>Cytogenetics:</b>	10q21
<b>Gene Summary:</b>	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. May also play a role in macrophages adhesion and motility (By similarity). [UniProtKB/Swiss-Prot Function]