

## Product datasheet for RC227287

### IRGM (NM\_001145805) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IRGM (NM_001145805) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IRGM
Synonyms:	IFI1; IRGM1; LRG-47; LRG47
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227287 representing NM_001145805 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAATGTTGAGAAAGCCTCAGCAGATGGGAACCTGCCAGAGGTGATCTCTAACATCAAGGAGACTCTGA  
 AGATAGTGTCCAGGACACCAGTTAACATCACTATGGCAGGGGACTCTGGCAATGGGATGTCCACCTTCAT  
 CAGTGCCTTCGAAACACAGGACATGAGGGTAAGGCCTCACCTCCTACTGAGCTGGTAAAAGCTACCCAA  
 AGATGTGCCTCTATTTCTCTCCCACTTTCAAATGTGGTGTGTTGGGACCTGCCTGGCACAGGGTCTG  
 CCACCACAACCCTGGAGAACTACCTGATGGAAATGCAGTTCAACCGGTATGACTTCATCATGTTGCATC  
 TGCACAATTGAGCATGAATCATGTGATGCTTGCCAAAACCGCTGAGGACATGGGAAAGAAGTTCTACATT  
 GTCTGGACCAAGCTAGACATGGACCTCAGCACAGGTGCCCTCCCAGAAAGTGCAGCTACTGCAGATCAGAG  
 AAAATGTCTGGAAAATCTCCAGAAGGAGCGGGTATGTGAATACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC227287 representing NM_001145805 Red=Cloning site Green=Tags(s)
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MNVEKASADGNLPEVISNIKETLKIVSRTPVNITMAGDSGNGMSTFISALRNTGHEGKASPPTLVKATQ  
 RCASYFSSHFSNVVLWDLPGTGSATTTLENYLMEMQFNRYDFIMVASAQFSMNHVMLAKTAEDMGKKFYI  
 VTKLDMDLSTGALPEVQLLQIRENVLENLQKERVCEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	Sgfl-MluI
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**Cloning Scheme:**


**ACCN:** NM\_001145805

**ORF Size:** 535 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](mailto: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.

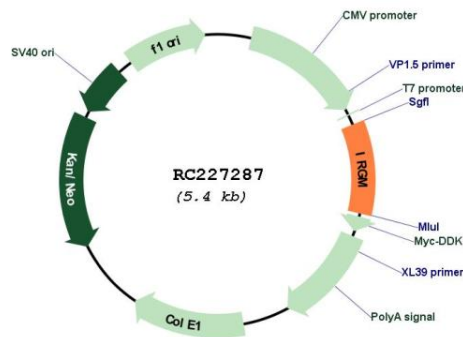
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

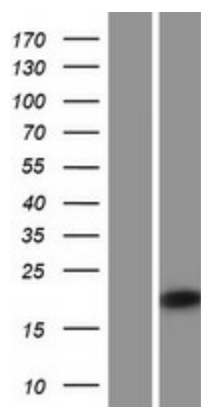
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001145805.1</u> , <u>NP_001139277.1</u>
<b>RefSeq ORF:</b>	546 bp
<b>Locus ID:</b>	345611
<b>UniProt ID:</b>	<u>A1A4Y4</u>
<b>Cytogenetics:</b>	5q33.1
<b>MW:</b>	20 kDa
<b>Gene Summary:</b>	This gene encodes a member of the p47 immunity-related GTPase family. The encoded protein may play a role in the innate immune response by regulating autophagy formation in response to intracellular pathogens. Polymorphisms that affect the normal expression of this gene are associated with a susceptibility to Crohn's disease and tuberculosis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2016]

### Product images:



Circular map for RC227287



Western blot validation of overexpression lysate (Cat# [LY429013]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227287 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).