

Product datasheet for RC200674

IFNGR2 (NM_005534) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IFNGR2 (NM_005534) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IFNGR2
Synonyms:	AF-1; IFGR2; IFNGT1; IMD28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200674 representing NM_005534 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGACCGAGCTGCTGTGGTCGCTGCTGCTGCTCGGAGTCTTCGCCGCCGCCGCCGCCGCCGCCGCC
CAGACCCCTTTCCAGCTGCCGCTCCTCAGCACCCGAAGATTCGCCTGTACAACGCAGAGCAGGTCTCT
GAGTTGGGAGCCAGTGGCCCTGAGCAATAGCACGAGGCCGTTGTCTACCAAGTGCAGTTAAATACACC
GACAGTAAATGGTTCACGGCCGACATCATGTCCATAGGGTGAATTGTACACAGATCACAGCAACAGAGT
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GGCCTCCAGAAAACATTGAGGTGACCCAGGAGAAGGCTCCCTCATCATCAGGTTCTCCTCCCTTTG
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CAAGTCCAGGCACAACCTGCTTTGGAACAAAAGTAAATCTTTAGAGTCGGGCATTTAAGCAACATATCTT
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GTTGCTGTCGGTGTGGCAGGAGCCTGTTTCTTCTGGTCTGAAATATAGAGGCTGATTAATACTGG
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AAAGGAGCAAGAAGATGTTCTCCAACGCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC200674 representing NM_005534
Red=Cloning site Green=Tags(s)

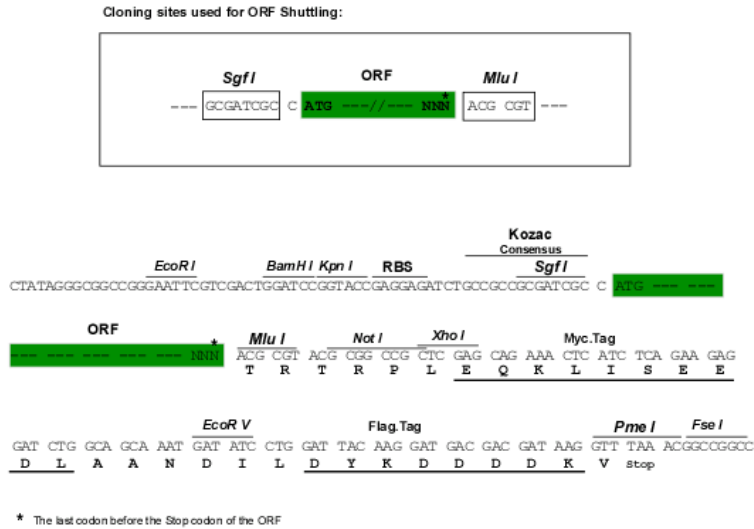
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 QVQAQLLWNKSNIFRVGHLNISCYETMADASTELQQVILISVGTFSLLSVLAGACFFLVLYKRYGLIKYW
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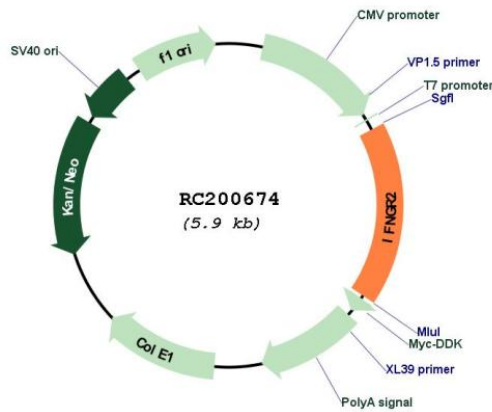
Chromatograms: https://cdn.origene.com/chromatograms/mg2527_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

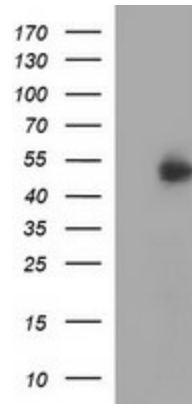


Plasmid Map:

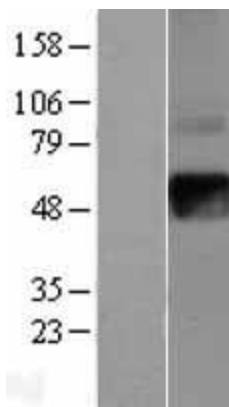


ACCN: NM_005534

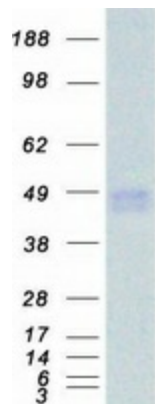
ORF Size:	1011 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. 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:	<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_005534.4
RefSeq Size:	2219 bp
RefSeq ORF:	1014 bp
Locus ID:	3460
UniProt ID:	P38484
Cytogenetics:	21q22.11
Domains:	FN3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity
MW:	37.81 kDa
Gene Summary:	This gene (IFNGR2) encodes the non-ligand-binding beta chain of the gamma interferon receptor. Human interferon-gamma receptor is a heterodimer of IFNGR1 and IFNGR2. Defects in IFNGR2 are a cause of mendelian susceptibility to mycobacterial disease (MSMD), also known as familial disseminated atypical mycobacterial infection. MSMD is a genetically heterogeneous disease with autosomal recessive, autosomal dominant or X-linked inheritance. [provided by RefSeq, Jul 2008]

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IFNGR2 (Cat# RC200674, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-IFNGR2(Cat# [TA506734]). Positive lysates [LY401697] (100ug) and [LC401697] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401697]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200674 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IFNGR2 protein (Cat# [TP300674]). The protein was produced from HEK293T cells transfected with IFNGR2 cDNA clone (Cat# RC200674) using MegaTran 2.0 (Cat# [TT210002]).