

Specifications:

Gene:	hIFNGR2
Accession:	NP_005525
Insert size:	1027bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

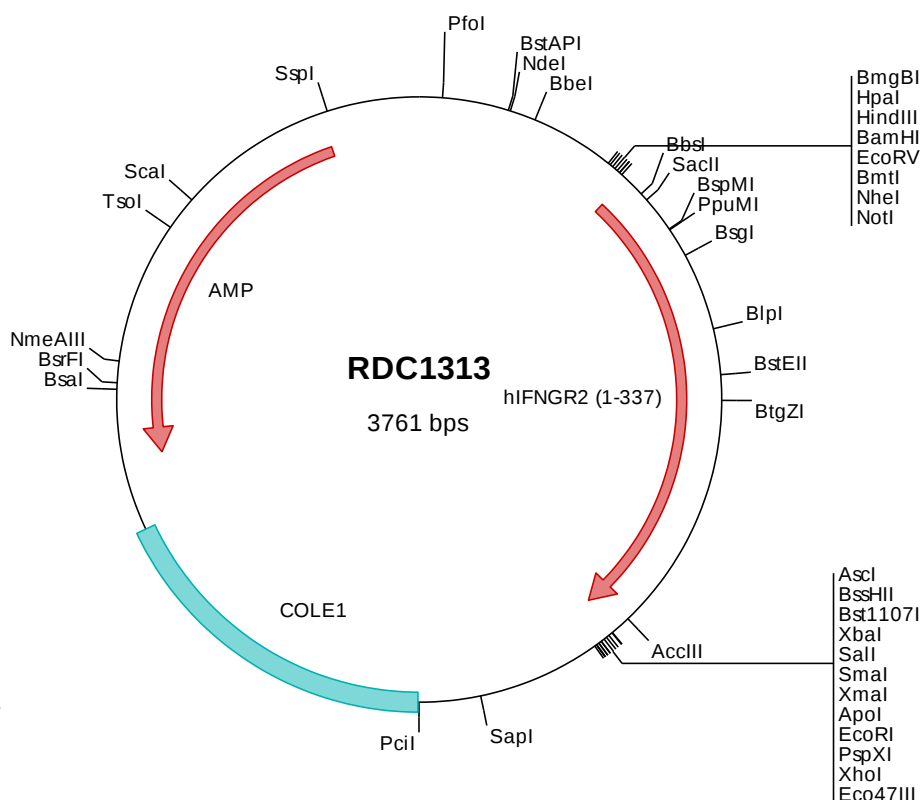
hIFN-γ R2 cDNA Plasmid

**IFNGR2 interferon gamma receptor
2 (interferon gamma transducer 1)
[*Homo sapiens* (human)]**

Also known as: AF-1; IFGR2; IMD28;
IFNGT1

Summary:

IFNGR2 is a type I transmembrane glycoprotein that is a member of the class II cytokine receptor family of molecules. IFNGR2 is the non-ligand-binding beta chain of the gamma interferon receptor. In the absence of IFN-γ, the complex contains two each of IFNGR1, IFNGR2, and Jak1 molecules. Binding of IFN-γ to IFNGR1 recruits Jak2 to IFNGR2 and initiates phosphorylation, STAT1 binding, conformational changes, and transcriptional regulation, which mainly inhibits proliferation and/or promotes apoptosis. Defects in IFNGR2 are a cause of mendelian susceptibility to mycobacterial disease (MSMD), also known as familial disseminated atypical mycobacterial infection.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC1313 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccgccacc atgcgacga cgtcgtctgt gtcgctctgt ctgctctctg gactctctgc
501  cgccgcgcgc ggcggccccc cagaccctct ttcccagctg cccgctcctc agcaccgaa gattcgccctg tacaacgcag agcaggtcct gacttgggag
601  ccagtggtccc tgagcaatag cagcaggcct gttgtctacc aagtgcagtt taaatacacc gacagtaaat ggttcacggc cgacatcatg tccatagggg
701  tgaattgtac acagatcaca gcaacagagt gtgacttcac tgccgcagtt ccctcagcag gcttcccaat ggatttcaat gtcactctac gccctcgagc
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3601 ttattgtctc atgagcggat acatatattg atgtatttag aaaaataaac aaatagggt tccgcgcaca tttccccgaa aagtgccacc tgacgtctaa
3701 gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag gccctttcgt c

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> RDC1313 Translated Insert Sequence

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201  nlkpsrvycl qvqallwnk snifrvghls niscytmad astelqqvil isvgtfsls vlagacfflv lkryglykw fhptpsiplq ieeylkdpqt
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