

Product datasheet for **RR206729**

Irs1 (NM_012969) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Irs1 (NM_012969) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Irs1
Synonyms: IRS1IRM
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206729 representing NM_012969
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGAGCCCTCCGGATACCGATGGCTTCTCAGACGTGCGCAAGGTGGGTTACCTGCGCAAACCAAGA
GTATGCATAAGCGCTTTTTCTGCTGCGGGCGCCAGCGAGGCCGGGGCCCGCGCGCTGGAGTATTA
TGAGAACGAGAAGAAGTGGCGGCACAAGTCGAGCGCCCAACGCTCGATCCCCCTCGAGAGCTGTTTC
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CAGCTTTGTGAAGCTCAACTCTGAGGCTGCCGCTGTGGTGTGCAGCTGATGAACATCAGACGCTGTGGC
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CACTTCAGACTGTCTCTCCCGAGGCGCTAGTGCTTCCGTGTCGGTCTCCTAGCGATGGCGGTTTC
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CCAGGTGCTACCATGGGACAAGCCCGCGCTGACTGGAGACGAAGCCGCTGGTGCAGCAGATCTGGATA



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ACCGGTTTCGGAAGAGAAGCTCACTCGGCTGGCAGTCCCCACCATATCCCACCAGAAGACCCCTCGCA
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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206729 representing NM_012969
 Red=Cloning site Green=Tags(s)

MASPPD TDGFSDVRKVGYL RPKKSMHKRFFV LRAASEAGGP ARLEYE NEKKWRHKSSAPKRSIPLESCF
 NINKRADSKN KHLVALYTRDEHFAI AADSEAEQDSWYQALLQLHNR AKAHHDGAGGGCGGSCGSSGVGE
 AGEDLSYDTGPG PAFKEVWQVILKPKGLGQTKNLIGIYRLCLTSK TISFVKLNSEAAAVLQLMNI RRCG
 HSENF FFIEVGRSAVTGPGEFWMQVDDSVVAQNMHETILEAMRAMSDEF RPRTKSQSSSSCSNPISVPLR
 RHHLN NPSSQVGLTRRSRTESITATSPASMVGKPGSFRVRASSD GEGTMSRPASVDGSPVSPSTNRTH
 AHRHRGSSRLHPPLNHSRSIPMPSSRCSPSATSPVLS SSSSTSGHGSTSDCLFPRRSSASVSGSPSDGGF
 ISSDEYSSPCDFRSSF RSVTPDSLGH TTPARGEEELSNYICMGGKGASTL TAPNGHYILSRGGNGHRYI
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 GGRLPGYRHS AFVPTHSYPEEGLEMHLERRGGHHRPDSNLHTDDGYMPMPG VAPVPSNRKNGDYMP
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 DTA AQTNSRLARPTRLSLGDPKASTLPRVREQQQQQQQQSSSLHPPEKSPGEYVNI EFGSQPGYLAG
 PATSRSSPSVRCLPQLHPAPREETGSEYMNMDLGPGRATWQESGGVELGRVGPAPPGAASICRPTRSV
 PNSRGDYMTMIQICPRQSYVD TSPVAPVSYADMRTGIAAEKVSLPRTTGAAPPSSTASASAVTPQGAA
 EQAAHSSLLGGPQGGMSAFTRVNLSPNHQS AKVIRADTQGCRRRHSSETFSAPTRAANTV SFGAGAA
 GGGSGGSE DVKRHSSASFENVL RPDGLG GASKESAPGCGAAGGLEKSLNYIDL DLVKDVKQHPQDCPS
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TRTRPLEQKLISEEDLAANDILDYKDDDDK

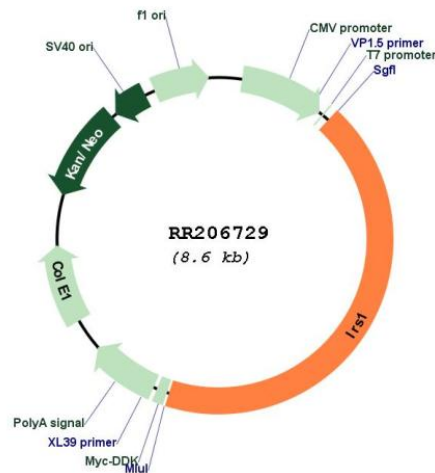
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012969

ORF Size: 3705 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:

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_012969.1](#), [NP_037101.1](#)

RefSeq Size: 5365 bp

RefSeq ORF: 3708 bp

Locus ID: 25467

UniProt ID: [P35570](#)

Cytogenetics: 9q34

MW: 131.2 kDa

Gene Summary: a docking protein; may act to link the insulin receptor kinase with enzymes regulating cellular growth and metabolism [RGD, Feb 2006]