

Product datasheet for **MC224006**

Irs1 (NM_010570) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Irs1 (NM_010570) Mouse Untagged Clone
Tag: Tag Free
Symbol: Irs1
Synonyms: G972R; IRS-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224006 representing NM_010570
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGAGCCCTCCGGATACCGATGGCTTCTCAGACGTGCGCAAGGTGGGCTACCTGCGCAAGCCCAAGA
GTATGCATAAGCGCTTTTTTCGTGCTGCGGGCGGCCAGCGAGGCCGGGGCCAGCGCGCTGGAGTATTA
TGAGAACGAGAAGAAGTGGCGGCACAAGTCGAGCGCCCAACGCTCGATCCCCCTCGAGAGCTGTTTC
AACATCAACAAGCGGGTACTCCAAGAACAAGCACCTGGTGGCTCTCTACACCCGAGACGAACACTTTG
CCATTGCCCGGGATAGCGAGGCTGAGCAAGACAGCTGGTACCAGGCTCTTCTGCAGCTGCATAATCGGGC
AAAGGCCACCATGACGGGGCTGGAGGAGGCTGCGGCGGTAGCTGCAGCGGCAGCTCTGGCGTTGGAGAG
GCAGGGGAGGACTTGAGCTATGACACGGGTCCAGGACCCGCGTTCAAGGAGGTCTGGCAGGTTATCTCTGA
AACCAAGGGCCTGGGTGAGCAAAAGAACCTGATTGGCATCTACCGCCTCTGCCTGACCAGCAAGACCAT
CAGCTTTGTGAAGCTGAACCTCCGAGGCAGCCGCTGTGGTGTGCAGCTGATGAATATCAGACGCTGTGGC
CACTCAGAGAACTTCTTTCATCGAGGTGGGGCGTCCGCTGTGACAGGGCCTGGCGAGTCTGGATGC
AAGTGGATGACTCCGTGGTGGCCAGAACATGCATGAGACCATTCTAGAGGCAATGAGGGCCATGAGCGA
TGAGTTTCGCCCTCGCAGCAAAAGCCAGTCTTCATCCAGTTGCTCCAACCCATCAGCGTTCGCCCTGCGC
AGGCACCATCTCAACAACCTCCACCCAGCCAGGTGGGACTGACTCGGAGATCTCGAACTGAGAGCATCA
CTGCCACCTCCCCTGCCAGTATGGTGGTGGGAAACCAGGTTCCCTCCGGGTGCGTGCCTCCAGCGATGG
CGAAGGCACCATGTCCCCTCCAGCATCAGTGGATGGCAGTCTGTGAGCCCTAGCACCAACAGGACCCAC
GCCCATCGGCATCGAGGCAGCTCCAGGCTGCACCCCCACTCAACCACAGCCGCTCCATCCCATGCCTT
CTTCTAGATGCTCACCTCAGCCACCAGCCAGTGAAGTCTGTCTAGTAGTACCAGTGGCCATGGCTC
CACTTCAGACTGTCTCTCCCGAGGCGCTAGTGCTTCCGTGTCGGTTCGCTAGCGATGGCGGTTTC
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CCCTGGGGCACACCCACAGCCAGGGGTGAGGAGGAGCTGAGCAATTATATCTGCATGGGTGGCAAGGG
AGCCTCCACCTTGCTGCTCCCAATGGCCACTACATTTGTCTAGGGGTGGCAACGGCCATCGCTACATC
CCAGGTGCTAACTGGGGACAAGCCAGCGCTGCCTGGAGATGAAGCCGCGGGTGCAGCAGATCTGGATA



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ACCGGTTTCGAAAGAGAAGCACTCCGACAGGCACATCTCTACCATTTCCCATCAGAAGACCCCTCACA
GTCTTCAGTGGCTTCTATTGAGGAATATACAGAGATGATGCCCGCTGCCTACCCACCAGGAGGTGGCAGT
GGAGGCCGACTGCCCGGCTACCGGCATTCCGCCTTCGTGCCACCCACTCCTATCCCGAAGAGGGTCTAG
AGATGCACCACCTGGAACGTCGTGGAGGCCACCACCGTCCAGACACCTCCAACCTCCACACTGATGATGG
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GACACAGCTGCACAGACCAACAGCCGCTGGCTCGACCCACAAGGCTGTCTTGGGGGATCCAAGGCAA
GCACCTTACCCCGGGTTCGAGAGCAGCAACAGCAGCAGCAGTCTTCCCTGCACCTCCCGAGCCAAAAG
CCCAGGAGAATATGTGAATATTGAATTCGGGAGCGGCCAGCCTGGCTATTTAGCTGGCCCTGCAACTTCC
CGTAGCTCTCCTTCAAGTTCGATGTCCACCCAGCTCCACCCAGCTCCTAGAGAAGAGACTGGCTCGGAAG
AGTACATGAACATGGACTTGGGGCCAGGCCGAGGGCAACCTGGCAGGAGAGTGGTGGAGTTGAGTTGGG
CAGAATAGGCCCTGCACCTCCGGGGTCTGCTACGGTTTGACAGGCCAACCCGTTCCGGTCCAAATAGCCGT
GGTGACTACATGACCATGCAGATAGGTTGTCCTCGTCAAAGCTATGTGGATACCTACCAGTGGCCCCAG
TCAGCTATGCTGACATGCGGACAGGCATTGCTGCAGAGAAGCGCAGCCTGCCTAGACCCACAGGAGCTGC
TCCTCCTCCATCCTCCACAGCCTTCTTCTGTTACACCTCAAGGAGCCACCGCTGAGCAAGCTACTCAC
TCTTCTTGTGAGGAGCCCTCAGGGACCTGGGGCATGAGTGCAATTCACAGGGTGAACCTCAGTCCCA
ACCATAACCAGAGTGCCAAAGTATTGCGCAGACACTCAAGGGTGCCGAGGAGGCATAGCTCTGAGAC
CTTCTCAGCACCTACTCGGGTGGCAATACGGTGCCTTTGGAGCAGGGGCTGCAGTAGGGGGCAGCGGC
GGTGGTGGTGGTGGCGCAGTGAAGATGTAACACGCCACAGCTCTGCATCCTTTGAGAATGTGTGGCTGA
GACCTGGGGATCTAGGGGAGTCTCCAAGGAGTCCGCTCCAGTGTGTGGGGTCTGGGGGTTGGAGAA
GAGTCTTAACTACATAGACCTGGATTTGGCCAAGGAGCGCTCTCAGGACTGCCCCCTCAACAGCAGTCC
CTACCACCCCTCCCTCACCAGCCCTTAGGCAGCAATGAGGGCAACTCCCAAGACGCTCCAGTGAGG
ATTTAAGCAACTATGCCAGCATCAGCTTCCAGAAGCAGCCAGAGGATCGTCAA TAG

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_010570
- Insert Size:** 3696 bp
- OTI Disclaimer:** 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).
- 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_010570.4](#), [NP_034700.2](#)

RefSeq Size: 9163 bp

RefSeq ORF: 3696 bp

Locus ID: 16367

UniProt ID: [P35569](#)

Cytogenetics: 1 42.0 cM

Gene Summary: May mediate the control of various cellular processes by insulin. When phosphorylated by the insulin receptor binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. Activates phosphatidylinositol 3-kinase when bound to the regulatory p85 subunit (By similarity).[UniProtKB/Swiss-Prot Function]