

Product datasheet for **MG226148**

Irs1 (NM_010570) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irs1 (NM_010570) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irs1
Synonyms:	G972R; IRS-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226148 representing NM_010570 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGCCCTCCGGATACCGATGGCTTCTCAGACGTGCGCAAGGTGGGCTACCTGCGCAAGCCCAAGA
GTATGCATAAGCGCTTTTTCTGCTGCGGGCGGCCAGCGAGGCCGGGGCCAGCGCGCTGGAGTATTA
TGAGAACGAGAAGAAGTGGCGGCACAAGTCGAGCGCCCCAACGCTCGATCCCCCTCGAGAGCTGTTTC
AACATCAACAAGCGGGCTGACTCCAAGAACAAGCACCTGGTGGCTCTCTACACCCGAGACGAACACTTTG
CCATTGCCGCGGATAGCGAGGCTGAGCAAGACAGCTGGTACCAGGCTCTCTGCAGCTGCATAATCGGGC
AAAGGCCACCATGACGGGGCTGGAGGAGCTGCGGGCGGTAGCTGACGCGGACGCTCTGGCGTTGGAGAG
GCAGGGGAGGACTTGAGCTATGACACGGGTCCAGGACCCGCGTTCAAGGAGGTCTGGCAGGTTATCTCTGA
AACCCAAGGGCCTGGGTGAGACAAAGAACCTGATTGGCATCTACCGCCTCTGCCTGACCAGCAAGACCAT
CAGCTTTGTGAAGCTGAACTCCGAGGCAGCCGCTGTGGTGTGACAGCTGATGAATATCAGACGCTGTGGC
CACTCAGAGAACTTCTTTCATCGAGGTGGGGCGTTCGCTGTGACAGGGCCTGGCGAGTTCTGGATGC
AAGTGGATGACTCCGTGGTGGCCAGAACATGCATGAGACCATTCTAGAGGCAATGAGGGCCATGAGCGA
TGAGTTTCGCCCTCGCAGCAAAAGCCAGTCTTCATCCAGTTGCTCCAACCCATCAGCGTTCCCCTGCCG
AGGCACCATCTCAACAACCCCTCCACCCAGCCAGGTGGGACTGACTCGGAGATCTCGAAGTGAAGCATCA
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CGAAGGCACCATGTCCCCTCCAGCATCAGTGGATGGCAGTCTGTGAGCCCTAGCACCAACAGGACCCAC
GCCCATCGGCATCGAGGCAGCTCCAGGCTGCACCCCCACTCAACCACAGCCGCTCCATCCCATGCCTT
CTTCTAGATGCTCACCTTCAGCCACCAGCCAGTGAAGTGTGATCTAGTACAGTGGCCATGGCTC
CACTTCAGACTGTCTTCCCAGGGCGCTAGTGTCTCCGTGTCGGTTCCGCTAGCGATGGCGGTTTC
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CCAGGTGCTAACTGGGGACAAGCCCAGCGCTGCCTGGAGATGAAGCCGCGGGTGCAGCAGATCTGGATA
ACCGGTTTCGAAAGAGAAGCTCACTCCGCAGGCACATCTCCTACCATTTCCCATCAGAAGACCCCTCACA
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CTTCTCAGCACCTACTCGGGCTGGCAATACGGTGCCTTTGGAGCAGGGGCTGCAGTAGGGGGCAGCGGC
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GAGTCTTAACTACATAGACCTGGATTTGGCCAAGGAGCGCTCTCAGGACTGCCCCCTCAACAGCAGTCC
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ATTTAAGCAACTATGCCAGCATCAGCTTCCAGAAGCAGCCAGAGGATCGTCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG226148 representing NM_010570
 Red=Cloning site Green=Tags(s)

MASPPD TDGFSDVRKVGYL RPKPSMHRFFVLRAASEAGGP ARLEYE NEKKWRHKSSAPKRSIPLESCF
 NINKRADSKNKHLVALYTRDEHFAIAADSEAEQDSWYQALLQLHNRKAHHDGAGGGCGGSCSGSSGVGE
 AGEDLSYDTGPGPAFKEVWQVILKPKGLGQTKNLIGIYRLCLTSKTI SFVKLNSEAAAVLQLMNI RRCG
 HSENF FFIEVGRSAVTGPGEFWMQVDDSVVAQNMHETILEAMRAMSDEF RPRSKSQSSSSCSNPISVPLR
 RHHLNPNPPSQVGLTRRSRTESITATSPASMVGKPGSFRVRASSDGE GTMSRPASVDGSPVSPSTNRTH
 AHRHRGSSRLHPPLNHSRSIPMPSSRCSPTS PVSLS SSSSTSGHGSTSDCLFPRRSASVSGSPSDGGF
 ISSDEYSSPCDFRSSF SVTPDSLGH TTPARGEEELSNYICMGGKGASTLAAPNGHYILSRGGNGHRYI
 PGANLGTSPALPGDEAAGAADLNRFRKRTHSAGT SPTISHQKTPSQSSVASIEEYEMMPAA YPPGGGS
 GGRLPGYRHS AFVPTHSYPEEGLEMHLERRGGHHRPDTSNLHTDDGYMPMPSPGVAPVPSNRKNGDYMP
 MSPKSVSAPQQI INPIRRHPQRVDPNGYMMSPSGSCSPDIGGSSSSSSISAAPSGSSYK PWTNGVGG
 HHTHALPHAKPPVESGGKLLPCTGDYMNMSPVGDSNTSSPSECYYPEDPQH KPVLSYYS LPRSFKHTQ
 RPGEPEEGARHQHLRLSSSSGRLRYTATAEDSSSSTSSDSLGGGYCGARPESSLTHPHHVLQPHLPRKV
 DTA AQTNSRLARPTRLSLGDPKASTLPRVREQQQQQSSLHPPEPKSPGEYVNI EFGSGQPGYLAGPATS
 RSPSPVRCPPQLHPAPREETGSEYMNMDLGPGR RATWQESGGVELGRIGPAPPGSATVCRPTRSVNSR
 GDYMTMI GCP RQSYVDTSPVAPVSYADMRTGIAAEKASLPRPTGAAPPSSTASSSVTPQGATAEQATH
 SLLGGPQGGMSAFTRVNLSPNHQS AKVIRADTQGCRRRHSSETFSAPTRAGNTVPFGAGAAVGGSG
 GGGGGGSEDKRHSSASFENVLWRPGLDGGVSKESAPVCGAAGGLEKSLNYIDL LAKERSQDCPSQQQS
 LPPPPHQPLG SNEGNSPRRSEDLSNYASISFQKQPEDRQ

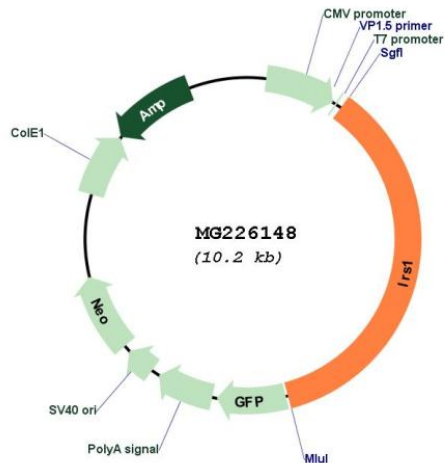
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_010570

ORF Size: 3693 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_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]