

Product datasheet for **RG208765**

IRS1 (NM_005544) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRS1 (NM_005544) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRS1
Synonyms:	HIRS-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208765 representing NM_005544 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGCCCTCCGGAGAGCGATGGCTTCTCGGACGTGCGCAAGGTGGGCTACCTGCGCAAACCAAGA
GCATGCACAAACGCTTCTTCGTAAGTGCAGCGGCCAGCGAGGCTGGGGGCCCGCGCGCTCGAGTACTA
CGAGAACGAGAAGAAGTGGCGGCACAAGTCGAGCGCCCCAAACGCTCGATCCCCCTTGAGAGCTGCTTC
AACATCAACAAGCGGGCTGACTCCAAGAACAAGCACCTGGTGGCTCTCTACACCCGGGACGAGCACTTTG
CCATCGCGGGCGGACAGCGAGGCCGAGCAAGACAGCTGGTACCAGGCTCTCTACAGCTGCACAACCGTGC
TAAGGGCCACCACGACGGAGCTGCGGCCCTCGGGCGGGAGGTGGTGGGGCAGCTGCAGCGGCAGCTCC
GGCCTTGGTGAGGCTGGGGAGGACTTGAGCTACGGTGACGTGCCCCAGGACCCGCATTAAGAGGCTCT
GGCAAGTGATCCTGAAGCCCAAGGGCTGGGTGAGACAAAGAACCTGATTGGTATCTACCGCCTTTGCC
GACCAGCAAGACCATCAGCTTTCGTAAGCTGAAGTGAAGTGGAGGCGAGCGGCCGTGGTGTGACGTGATGAAC
ATCAGGCGCTGTGGCCACTCGGAAAATTCTTCTTCATCGAGGTGGGCCGTTCTGCCGTGACGGGGCCCG
GGGAGTTCTGGATGCAGGTGGATGACTCTGTGGTGGCCAGAACATGCACGAGACCATCTGGAGGCCAT
GCGGGCCATGAGTGATGAGTCCGCCCTCGCAGCAAGAGCCAGTCTCGTCCAAGTGTCTAACCCCATC
AGCGTCCCCCTGCGCCGCCACCATCTCAACAATCCCCCGCCAGCCAGGTGGGGCTGACCCGCGCATCAC
GCACTGAGAGCATCACCGCCACCTCCCCGCGCAGCATGGTGGGCGGGAAGCCAGGCTCCTCCGTGTCCG
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ACCAACAGAACCACGCCACCGGCATCGGGGAGCGCCCGGCTGACCCCGCTCAACACAGCCGCT
CCATCCCCATGCCGGTTCGCGCTGCTCGCCTTCGGCCACAGCCCGGTGAGTCTGTGTCAGTAGCAC
CAGTGGCCATGGCTCCACCTCGGATTGTCTTCCACGGCGATCTAGTGTCTCGGTGTCTGGTTCCCC
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GGCCACCCTGCACCCAGGAACAGGCTTGGGCACGAGTCCAGCCTTGGCTGGGGATGAAGCAGCCAGTG
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TGGGGCTGCTGGGGTTTGGAGAATGGTCTTAACATAGACCTGGATTTGGTCAAGGACTTCAAACAG
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GTGAGAGCAGCTCCACCCGCGCTCAAGTGAAGATTTAAGCGCCTATGCCAGCATCAGTTCCAGAAGCA
GCCAGAGGACCGTCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG208765 representing NM_005544
 Red=Cloning site Green=Tags(s)

MASPPESDGFSDVRKVGYL RPKPSMHRFFVLRAASEAGGP ARLEYEENEKKWRHKSSAPKRSIPLESCF
 NINKRADSKNKHLVALYTRDEHFAIAADSEAEQDSWYQALLQLHNRAGHHDGAAALGAGGGGSCSGSS
 GLGEAGEDLSYGDVPPGPAFKEVWQVILKPKGLGQTKNLIGIYRLCLTSKTI SFVKLNSEAAVVLQLMN
 IRRCGHSENF FFIEVGRSAVTGPGEFWMQVDDSVVAQNMHETILEAMRAMSDEF RPRSKSQSSSNCSNPI
 SVPLRRHHLNPPPSQVGLTRRSRTESITATSPASMGKPGSFRVRASSDGE GTSRPAVDGSPVSPS
 TNRTHAHRHRGSARLHPPLNHSRSIPMPASRCSATS PVLS SSSSTSGHGSTSDCLFPRRSASVSGSP
 SDGGFIS SDEYGS SPCDFRSSF SVTPDSLGH TTPARGEEELSNYICMGGKGPSTLTAPNGHYILSRGGN
 GHRCTPGTGLGTSPALAGDEAASAADLNRFRKRTHSAGT SPTITHQKTPSQSSVASIEEYEMPPAYPP
 GGGSGGRLPGHRSAFVPTRSYPEEGLEMHPLERRGGHHRPDSSTLHTDDGYMPMSPGVAPVPSGRKGG
 DYMPMSPKSVSAPQIINPIRRHPQRVDPNGYMMSPSGGCPD IGGGPS SSSSSNAVSGTSYGKLTW
 NGVGGHSHVLPHPKPPVESSGKLLPCTGDYMNMSPVGDSNTSSP SDCYYPEDPQH KPVLSYSLPRS
 FKHTQRPGEPEEGARHQHLRLSTSSGRLLYAATADSSSSTSSDSLGGGYCGARLEPSLPHPHHQLQPH
 LPRKVDTA AQTNSRLARPTRLSLGDPKASTLPRAREQQQQQ PLLHPPEPKSPGEYVNI EFGSDQSGYLS
 GPVAFHSSPSVRCPSQLQPAPREETGTEEYMKMDLGPGRRAAWQESTGVEMGR LGPAPGAASICRPTR
 AVPSSRGDYMTMQMSCRQSYVDTPAAPVSYADMRTGIAAEVSLPRATMAA SSSSAASPTGPQGA
 AELAAHSSLLGGPQGGGMSAFTRVNLSPNRNQS AKVIRADPQGCRRRHSSETF SSTPSATR VGNTPVFG
 AGAAVGGGGSSSSSE DVKRHSSASFENVL RPKGELGGAPKEPAKLCGAAGGLE NGLNYIDL DLVKDFKQ
 CPQECTPEPQPPPPPHQPLGSGESSSTRSS EDSLAYASISFQKQPEDRQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

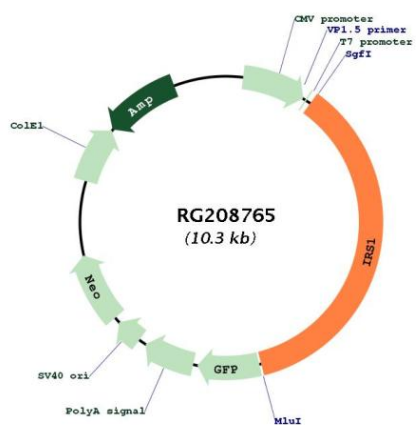


ACCN: NM_005544

ORF Size: 3726 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_005544.2
RefSeq Size:	5828 bp
RefSeq ORF:	3729 bp
Locus ID:	3667
UniProt ID:	P35568
Cytogenetics:	2q36.3
Protein Families:	Druggable Genome
Protein Pathways:	Adipocytokine signaling pathway, Insulin signaling pathway, Neurotrophin signaling pathway, Type II diabetes mellitus
Gene Summary:	This gene encodes a protein which is phosphorylated by insulin receptor tyrosine kinase. Mutations in this gene are associated with type II diabetes and susceptibility to insulin resistance. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RG208765