

Product datasheet for **RG218385**

IRS4 (NM_003604) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IRS4 (NM_003604) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IRS4
Synonyms: CHNG9; IRS-4; PY160
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG218385 representing NM_003604
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCGAGTTGCTCCTTCACTCGCGACCAAGCGACAAGAAGACTAAGAGGTGCAGCAGCGGCGGCAGCGG
 CAGCTCTAGCAGCAGTGGTGACCACCCCGCTTCTTTCTCGGGAACCCGACCGCACTATTGGGACCGG
 GTCGTCTGTCCGGGAGCCATGTGGCTCTCCACGGCCACTGGCTCCCGGTGAGCTCCGAGTCCGAAGAG
 GAGGACCTGCCCGTCCGGGAGGAAGTCTGCAAACGCGGCTACCTGCGGAAACAGAAGCATGGGCACAGGC
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 GTTCCGGCACAGTGTCCGCGCCGCGGGCTGCAGCAGCGCGCGCCCTCTGGCGCCGGCATCCCCCG
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 AGCATCCGTCGCTGTGGACTCGGAGCAGTATTTCTTCTGGAAGTAGGCAGGTCCACTGTCATCGGT
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AACAATTGGGGCTCAGGAAATGGCCGGGGCTCAGGAGGTGGCCAGGGCTCAAATGGCCAAGGCTCCAGTA
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GCTTCGGCTGCAGAGCCGACTTTAGCCCTCAGCCAAGTTGTAGCTGCGGCTCCGCGCTCGCCGAGCCC
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TAATGCTGCTGATGCCGAAGCAGTAAGGGGAGCCCAAGACGTTGCCGGTGGCTCGAACCTGGAGCCCAC
AACCCATCTGAAACCTTGCCAGAGGTGATAACCAGGCTGGCGGGCTGCCGCTGCAGCTGCCGCTCCGG
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TCAGTGAGAATGGATTTGCCAGAGCTGATAATCAGTTCGACTCTCCAAAAGAGGTCCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG218385 representing NM_003604
 Red=Cloning site Green=Tags(s)

MASCSFTRDQATRRLRGAAAAAALAAVVTPLLSGGTPTALIGTGSSCPGAMWLSTATGSRDSESEE
 EDLPVGEVCKRGLRKQKHGRRYFVLKLETADAPARLEYENARKFRHSVRAAAAAAASGAAIPP
 LIPRRRITLYQCFSVSQRADARYRHLIALFTQDEYFAMVAENESEQESWYLLLSRLILESRRRCGTLG
 AQPDPGEPAALAAAAAEPFFYKDVWQVIWKPRGLGHRKELSGVFRLCLTDEEVFVRLNTEVASVVVQLL
 SIRRCGHEQYFFLEVGRSTVIGPGLWMQVDDCVVAQNMHELFLKMRALCADEYRARCRRSYSISIGAH
 LLTLLSARRHLGLVPLEPGWLRRSRFEQFCHLRAIGDGEDEMLFTRRFVTPSEPVAHSRRGRLHLPGR
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 PPPPPPPAGGTGGKSGGRFRLYFCVDRGATKECKEAKVKDAEIPGAARGPHRARAFDEDEDDPY
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 EQREADSSSDYVNMDFTKRESNTPAPSTQGLPDSWGIIEPRQSASFNYVNEFVGFPPNPANDLSDLLR
 AIPRANPLSLDSARWPLPLPLSATGSNAIEEGDYIEVIFNSAMTPAMALADSAIRYDAETGRIYVDP
 FSECCMDISLSPSRCSEPPVVARLLQEEEQERRRPQRSQSFFAAARAASAFPTDSLRLDLPSSAPAV
 ASAAEPTLALSQVVAASALAAAPGIGAAAAAGFDSASARWFQPVANAADAEAVRGAQDVAGGSNPGAH
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

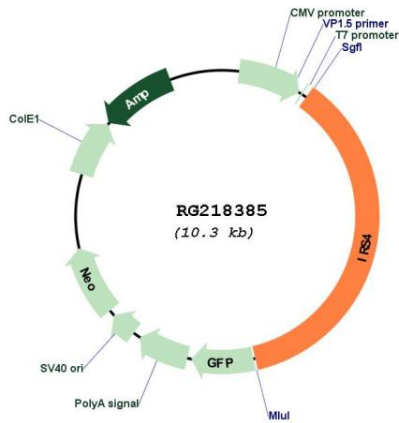


ACCN: NM_003604

ORF Size: 3771 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_003604.2
RefSeq Size:	3939 bp
RefSeq ORF:	3774 bp
Locus ID:	8471
UniProt ID:	O14654
Cytogenetics:	Xq22.3
Protein Families:	Druggable Genome
Protein Pathways:	Adipocytokine signaling pathway, Insulin signaling pathway, Neurotrophin signaling pathway, Type II diabetes mellitus
Gene Summary:	IRS4 encodes the insulin receptor substrate 4, a cytoplasmic protein that contains many potential tyrosine and serine/threonine phosphorylation sites. Tyrosine-phosphorylated IRS4 protein has been shown to associate with cytoplasmic signalling molecules that contain SH2 domains. The IRS4 protein is phosphorylated by the insulin receptor tyrosine kinase upon receptor stimulation.. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG218385