

Product datasheet for **SC303356**

IRS4 (NM_003604) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: IRS4 (NM_003604) Human Untagged Clone
Tag: Tag Free
Symbol: IRS4
Synonyms: CHNG9; IRS-4; PY160
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003604 edited
 ATGGCGAGTTGCTCCTTCACTCGCGACCAAGCGACAAGAAGACTAAGAGGTGCAGCAGCG
 GCGGCAGCGGCAGCTCTAGCAGCAGTGGTGACCACCCCGCTTCTTTCCTCGGGAACCCCG
 ACCGCACTCATTGGGACCGGGTCGTCTTGTCCGGGAGCCATGTGGCTCTCCACGGCCACT
 GGCTCCCGGTCCAGACTCCGAGTCCGAAGAGGAGGACCTGCCCGTCGGGGAGGAAGTCTGC
 AAACGCGGCTACCTGCGGAAACAGAAGCATGGGCACAGGCCTACTTCGTGCTCAAACCTC
 GAGACTGCTGACGCCCCAGCTCGGCTGGAATACTACGAAAATGCCAGGAAGTTCCGGCAC
 AGTGTCCGCGCCGCGGGCTGCAGCAGCGGCGCCGCTCTGGCGCCGCGATCCCCCG
 CTCATTCCACCGCGCGGTGATCACCCTATACCAGTGCCTTTCCGTGAGCCAGCGAGCA
 GATGCAAGGTACCGACACCTCATTGCTCTTTTACCCAAGACGAATACTTCGCGATGGTG
 GCCGAGAACGAGTCGGAGCAGGAAAGCTGGTACTTGTGCTCAGCCGCTCATCCTCGAG
 AGCAAGCGCCGCGCTGCGGCACGCTCGGCGCGCAGCCGACGGAGAGCCGGCCGCGCTG
 GCGGCGGACGCGCGGGAGCCACCTTCTATAAAGATGTGTGGCAGGTAATAGTCAAA
 CCCAGGGGGCTGGGGCACAGAAAAGAGCTGAGCGGCGTGTTCGGCTGTGTCTAACCGAC
 GAGGAGGTGCGTGTGTGAGGCTGAACACCGAAGTGGCCAGCGTGGTCCAGCTCCTG
 AGCATCCGTGCGTGTGGACTCGGAGCAGTATTTCTTCTTGAAGTAGGCAGGTCCACT
 GTCATCCGTCCGGGAGAGCTCTGGATGCAGGTCGATGACTGTGTGGTTGCCAAAACATG
 CATGAGCTGTTTTGGAGAAGATGAGAGCCTTGTGTGCAGACGAATACAGAGCCCGCTGC
 CGCAGCTACAGCATCAGCATCGGCGCCACCTGTTAACCTGCTGTCGCTAGGAGGCAC
 CTGGGCTTGGTGCCTCGAGCCGGGAGGCTGGCTCAGAAGTCCCGCTTTGAGCAGTTT
 TGCCACCTCAGGGCCATCGGCGACGGGAAGACGAGATGCTTTTACCAGGCGCTTCGTA
 ACACCCAGCGAGCCTGTGGCCACTCCAGGCGAGGAAGACTGCACCTGCCAGAGGGCGC
 AGGTCAAGGAGAGCGTTTTAGTGCCGCGCAGCTTTTTTCGCGCTTAGCACCCAGCCCA
 GCACGTCCCCGGCACCTGCAGAAGCCCCGAACAATGGAGCTCGCTGTCTTCTGAAGTG
 TCTGGTTCTGGCTCTGGCAACTTTGGGGAGGAAGGCAATCCCCAGGGCAAAGAAGATCAG
 GAAGGAAGCGGAGGTGACTACATGCCTATGAACAATTGGGGCTCAGGAAATGGCCGGGGC
 TCAGGAGGTGCCAGGGCTCAAATGGCCAAGGCTCCAGTAGCCATAGCTCGGGAGGAAAC



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CAGTGTTCAAGCGAGGGACAGGGATCCCCAGGTGGTCAGGGCTCAAATGGCCAGGGCTCA
GGAGGAAACCACTGCTCTAGAGATGGCCAGGGCACCGCAGGTGGGCACGGTTCAGGTGGT
GGCCAGAGACCTGGAGGTGGGCATGGCTCAGGTGGTGGCCAGGGACCTGGAGATGGCCAT
GGCTCAGGTGGTGGCAAGAACTCTGGGGGGGCAAAGGCTCAGGAAGTGGGAAAGGATCC
GATGGTGTGGTGAACGTGAAAAATCTCTGAAGAAAAGATCCTATTTTGGCAAATTAAC
CAAAGCAAGCAACAGCAAATGCCACCACCTCCACCACCTCCTCCTCCACCCACCACAGCT
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TACGTCAACATGGACTTCACTAAAAGAGAGCAATACACCAGCTCCCTCTACTCAAGGA
CTACCAGATTCGTGGGGCATAATTGCTGAACCCAGACAGTCAGCCTTTTCTAATTATGTG
AATGTTGAGTTTGGAGTGCCATTTCCAAATCCAGCAAACGACCTCTCAGATCTTTTAAGA
GCTATAACCAGTGCCAACCCCTTATCTCTGGACAGTGCTAGGTGGCCACTTCTCCCTT
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GAGAGAAGACGCCACAAAGCCGTTCTCAAAGTTTCTTTGCAGCAGCCAGAGCCGCTGTC
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GCTTCGGCTGCAGAGCCGACTTTAGCCCTCAGCCAAGTTGTAGCTGCGGCCTCCGCGCTC
GCCGACGCCCCGGGCATCGGCGCAGCAGCCGACGCTGCTGGATTTGACTCCGCCTTGCC
CGCTGTTTCAACCTGTTGCTAATGCTGCTGATGCCGAAGCAGTAAGGGGAGCCCAAGAC
GTTGCCGGTGGCTCGAACCTGGAGCCACAACCCATCTGCAAACCTTGCCAGAGGTGAT
AACCAGGTGGCGGGGCTGCCGCTGCAGCTGCCGCTCCGGAACCACCACCTCGCAGTCGC
CGGGTGCCAAGACCCCGGAGAGAGAAGATTCTGACAACGACGACGACTCACGTGAGA
ATGGATTTGCCAGAGCTGATAATCAGTTCGACTCTCCAAAAGAGGTCCGGTAA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003604 unedited CGTCACATTTGTATACCATCATATAGGCGGCCGCGAATTCGCCTTGTCTCGCTCACCT TAAAACCATCGTGCATCACCATGGCGAGTTGCTCCTTCACTCGCGACCAAGCGACAAGAA GACTAAGAGGTGCAGCAGCGCGGCAGCGGCAGCTCTAGCAGCAGTGGTGACCACCCCGC TTCTTTTCTCGGGAACCCCGACCGCACTATTGGGACCGGGTCTGCTTGTCCGGGAGCCA TGTGGCTCTCCACGGCCACTGGCTCCCGGTCAGACTCCGAGTCCGAAGAGGAGGACCTGC CCGTCGGGGGAGGAAGTCTGCAAACGCGGCTACCTGCGGAAACAGAAGCATGGGCACAGGC GCTACTTCGTGCTCAAACCTCGAGACTGCTGACGCCCCAGCTCGGCTGGAATACTACGAAA ATGCCAGGAAGTTCGGCACAGTGTCCGCGCCGCGGCGGCTGCAGCAGCGCGGCCGCT CTGGCGCCGCGATCCCCCGCTCATTCCACCGCGGCGCGTGATCACCTATAACAGTGCT TTTCCGTGAGCCAGCGAGCAGATGCAAGGTACCGACACCTATTGCTCTTTTACCCAAG ACGAATACTTCGCGATGGTGGCCGAGAACGAGTNCGAGCAGGAAAGCTGGTACTTGCTGC TCAGCCGCTCATCCTCGAGAGCAAGCGCCGNCGCTGCGGCACGCTCGGCGCGCAGCCCG ACGGAGAGCCGGCCGNCGCTGCNGCNGCAGCGGCGGCGGAGCCACCTTCATAAAGATGT GTTGCAGGTAATAGTCAAACCCAGGGGGTGGGGCACAGAAAAGAGCTGAGCGNCGTGGT CCGGCTGGGTCTAACCGACGAAGAAGTTTGTGTTTGG
Restriction Sites:	Please inquire
ACCN:	NM_003604
Insert Size:	5000 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_003604.1</u> , <u>NP_003595.1</u>
RefSeq Size:	3939 bp
RefSeq ORF:	3774 bp
Locus ID:	8471
UniProt ID:	<u>O14654</u>
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]