

Product datasheet for SC124032

IRS1 (NM_005544) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRS1 (NM_005544) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRS1
Synonyms:	HIRS-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124032 sequence for NM_005544 edited (data generated by NextGen Sequencing)

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ATGGCGAGCCCTCCGGAGAGCGATGGCTTCTCGGACGTGCGCAAGTGGGCTACCTGCGC
AAACCCAAAGAGCATGCACAAACGCTTCTCGTACTGCGCGCGCCAGCGAGGCTGGGGGC
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AAACGCTCGATCCCCCTTGAGAGCTGCTTCAACATCAACAAGCGGGCTGACTCCAAGAAC
AAGCACCTGGTGGCTCTTACACCCGGGACGAGCACTTTGCCATCGCGCGGACAGCGAG
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CACGACGGAGCTGCGGCCCTCGGGCGGGAGGTGGTGGGGCAGCTGCAGCGGCAGCTCC
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GGACGAGTCCAGCCTTGCTGGGGATGAAGCAGCCAGTCTGCAGATCTGGATAATCGG
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 TCCCAGTCCCTCAGTGGCTTCCATTGAGGAGTACACAGAGATGATGCCTGCCTACCCACCA
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Clone variation with respect to NM_005544.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005544 unedited
 AGCCGTTCAANAATTTGTATACGACTCACTATAGGCGGCCCGCAATTCGCACGAGGTTTT
 TCGGAGCCTCCCTCTGCTCAGCGTTGGTGGTGGCGGTGGCAGCATGGCGAGCCCTCCGGA
 GAGCGATGGCTTCTCGGACGTGCGCAAGGTGGGCTACCTGCGCAAACCAAGAGCATGCA
 CAAACGCTTCTTCGTA CTGCGCGCGGCCAGCGAGGCTGGGGGCCCGCGCGCCTCGAGTA
 CTACGAGAACGAGAAGAAGTGGCGGCACAAGTCGAGCGCCCCAAACGCTCGATCCCCCT
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 GTACCAGGCTCTCTACAGCTGCAACCGTGCTAAGGGCCACACGACGAGCTGCGGC
 CCTCGGGCGGGAGGTGGTGGGGCAGCTGCAGCGCAGAGTCCGGCCTTGGTGAGGCTG
 GGGAGGACTTGAGCTACGGTACTTGCCTCCAGGACCCGATTCAAAGAGGTCTGGCAAG
 TGATCCTGAAGCCCAAGGGCCTGGTTCAGACAAAGAACCTGATTGGTATCTACCGTTTT
 GGCTGACCAGCAAGACCATCACCTTTCGGAACCTAACTTCGAGGCACCGCCGTGGTGC
 TCCACTGATGAACATTTGGCGCTGTGGCCACTCGGAAAACCTTTCTTTCTCGAGGTGGG
 CCGTTCTGTCTTGACCGATCCCGGGNATTCTTGATCCAGGTGGGATGACTTTGTGGGG
 GCCCGTAAACTGTGAAACATCTTGGGGGCCTGCTGGCCATGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005544 unedited
 GGGCCAGGAGAGGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTTTCAGGAAA
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 TATCTAGTTTATTATGAATAGAAAGACATTTCCAGAATTTACAAACGCCACATTGTTCA
 TTCCAAAGAGAGCTTTTGAATTGAAGGAATCACCCATCTCCTTCTGTTTACAATACATGC
 AATGGAAGACTTTAATTTCTCTTATAATTTTGTCTCCATTCAATTACCAATTTTAA
 GCTGACATTTGAAAACACCCAGCCAAATATATCCTTCTCAGTTTAATTAACATGGCCTA
 TTGTCTTACAGGAAAAATACAAAATTAAGATTAATTCTTATAAGGAACCTCAGCTCAACA
 TCAGGTTTATATGACAAGAGATAGTATCAGCAAATATACTATAACAATTGAGAACCATCT
 ATGGCACTATGATTCTTATATTATGTTTTCTGAATTACAATCTTAAAACAAGGATCATA
 CCTATTCTACTCTTTAAGCCTTGTTTAAGCATTGCTCCACTTTTACAACAGAACAT
 TGTATACCTCCATCCACATCCAAAAAAGATGTGCTGTAAGAAAAGTTACATTTTCAT
 TTAATAAATTACACATATAAATCANAACCTATGTTAAATATTTAATACTCTCCACCCA
 ACGTGAACAGTTTTGTATGAAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_005544

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).

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_005544.1](#), [NP_005535.1](#)

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]