

Product datasheet for RN217591

Irs2 (NM_001168633) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irs2 (NM_001168633) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Irs2
Synonyms:	4PS; IRS-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN217591 representing NM_001168633 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTAGCGGCCCTGCCTGGGCCCGCGTGGCGGGGGGACGGCCGAACCTCAATAACAACA
ACAACAACAACAACACAGCGTGCGAAGTGGGCTACCTGCGCAAGCAGAAGCAGGCCACAAGCG
CTTCTTCGTGCTGCGCGCCCGGCGACCGCGGGGAGGAGGCAGCGCGGCTGGGGGTGCGCCGCGAG
CCTCCGCGGCTGGAGTACTATGAGAGCGAGAAGAAGTGAAGAGCAAGCGGGCGCGCCAAGCGAGTGA
TCGCGCTCGACTGCTGTGAACATCAACAAGCGCGGACGCCAAGCACAAGTACCTGATCGCCCTCTA
CACCAAGGACGAGTACTTCGCCGTAGCGGCGGAGAACGAGCAGGAGCAGGAGGGCTGGTACCGCGCACTC
ACCGACTTGGTCAGCGAAGGCCGCTCTGGCGATGGGGGCTCCGGCACCGGGCGGCTCTTGACGCGCT
CTCTCCCGGGGGCCCTGGGCGGCTCGGCGGGCGCCGCTGGCTGCGATGACAACTACGGGCTCGTACGCGC
CGCCACGGCAGTCTACCGCGAGGTGTGGCAGGTGAACCTGAAGCCTAAGGGACTGGGCCAGAGCAAGAAC
CTGACCGGTGTATACCGCCTATGCCTGTCTGCGCGCACCATCGGCTTCGTGAAGCTCAATTGCGAACAGC
CGTCCGTTGACGCTGACGTTATGAACATTCGCCGCTGCGGCCACTCGGACAGCTTCTTTCATCGAGGT
GGGCCGTTACCGGTCACCGGTCGCGGCGAGCTGGATGCAAGCCGATGACTCGGTGGTGGCGCAGAAC
ATCCATGAGACCATCCTGGAGGCCATGAAGGCACTCAAGGAGCTCTTCGAGTTCGGGCTCGCAGCAAGA
GTCAGTCGTCTGGGTCGTCTGCCACGCACCCCATCAGCGTACCGGGCGCGCGCCACCACCACCTAGT
CAACCTACCCCTAGCCAGACGGGCTGGTGGCGGCTCTCGACTGATAGCCTGGCGGCCACCCCGCCA
GCAGCCAAGTGCCTTCGTGCCGGTTCGTACAGCCAGCGAGGGTACGGCGGCGCGGCGAGGCGGAGCCG
GGACGGCAGGAGGCGGCGATGTCGGTGGCAGGGAGCCCTGAGTCCCGGGCCGGTGCAGCGCCCT
TAGCCGCTCGCACACCCTGAGCGCCGGCTGCGGAGGCCCGGAGCAAAGTGGCTCTGGCGCGGCGAGG
GGAGCCCTACAACACAGCCGCTCCATGTCCATGCCGTTGGCGACTCGCCGCTGCAGCCACCAGCCAG
GCAGCCTGTCTCCAGCAGTGGGATGGCTCAGGCTCCTACCCGCTGCCTCCTGGTTCACCCCGCACCT
GCCTATCCGCTCCATCACCCCAATGCCAACGTCGTCAGCGGAAGTGCCTCCGCTCGGGCTCCCC
AGCGACCCGGGTTTCATGTCCCTTGACGAGTATGGCTCCAGCCCTGGTACCTGAGAGCCTTCAGTAGCC



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ACAGGAGCAACACACCTGAGTCCATCGCGGAGACCCCGCCAGCCAGGGACGGCAGTGGGGGCGAGCTCTA
 TGGGTATATGAGCATGGATAGGCCCTGAGCCACTGTGGCCGCCCTTACCGTAGGGTCTCTGGGGATGGG
 GCCCAGGATCTGGACAGAGGACTGAGGAAGAGGACTTACTCCCTAACCACGCCTGCCCGGACGGCAGG
 TTCCTCAGCCTTCTCTGCCTCTCTAGACGAATACACTCTCATGCGGGCCACCTTCTCTGGCAGTTCAGG
 TCGCCTTGCCCATCCCTCCCTGCGTCCCTCCCAAAGTGGCCTACAACCCTTACCCAGAGGACTATGGA
 GACATTGAGATTGGTTCTCACAAGAGTTCAGCAGTAACCTGGGGCAGATGATGGCTACATGCCCATGAGCC
 CCCCTGGGGCAGCCCTCAGGAGTGGTGGCCCAATAGCTGCAAGAGCGATGACTACATGCCCATGAGCCC
 CACCAGCGTGTCTGCCCTAAGCAGATCCTGCAACCACGTTTCGGCAGCGCCTTGCCCCCTCTGGAGCA
 GCCGTGCCAGCACCCCTTCAGGGGCGGCAGGACTTTCCAGTGAACGAGGCGGCTACAAGCCAGCT
 CCCCAGCGGAGAGCTCCCAGAAGATAGCGGTACATGCGAATGTGGTGGCTCCAAGCTGTCCATGGA
 GAACCCAGACCCTAAGCTGCTCCCAATGGGGACTACCTAACATGTCCCCAGTGAGGCAGGCACCCGA
 GGGACCCACCTGACTTCTCTCAGCAGCTTTCGCTCCAGGCGGTGAGGCCCTCAAAGGCGTCCCTGGCC
 ACTGCTACAGCTCTTGGCCCGCTTTACAAGGCTCCCTGTACTTGGCGTGGTGGAGACAACGACCAGTA
 CGTGCTCATGAGCTCCCCTGTGGTTCGGATTTTGAAGAGGAGAGACTGGAGCCCAGGCCACCCAGGG
 GCTGGCACATTTGGGGCAGCTGGTGGTAGTCATACCCAGCCTCATCACTCAGCAGTGCCTTCTCCATGA
 GACCAAGTGGCATCGTTGGCCGACCTGAGGGCTTCTGGGCCAGCGCTGTGGGGCAGTGGGCCACACG
 CCTTTCGCTAGAGGGACTGCAGACCCTTCCCAGCATGCAAGAGTACCCTCTACCCACTGAGCCCAAGAGC
 CCTGGCGAGTACATCAACATTGACTTTGGTGAAGGGGGTACCCGCTGTCTCCGCTGCTCCCCACTAC
 TGGCATCAGCGCCTCCTCCTTCACTGCTCTCAGCCAGTAGTCTGCTTATCCCTGGGTTTCAGGTAC
 CCCAGGCACCAGCAGTGACAGCCGGCAGCGCTCTCCGCTCTGACTATATGAACCTGGACTTCAGTTCT
 CCCAAGTCCCCTAAGCCTAGCACCCGAGTGGGGACACAGTGGGCTCCATCGATGGCCTTCTCTCCAG
 AAGCCTCATCCCATACCCACCCTGCCCCCGCTCCTTCTGCTTCCCTTCTCCTTACAGCAGCCTCT
 GCCACCTGCCCAGGAGACCTATACCCGCTGCCCTCCAGCAACAGCTGCCACATCCCAGGGTCCCCTGCT
 GGCTCCTCAATGTCTCTGAGCCTGGGGATAATGGTGACTATACCGAGATGGCCTTTGGTGTGGCTGCTA
 CCCCAGCACAACTATTGCGGCACCCCGAAGCCAGAAGGTGCCCGAGTGACCAGTCCCACATCAGGCTT
 GAAGCGGCTAAGTCTCATGGATCAGGTATCTGGGGTAGAGGCCTTCTTCAAGTCAGCCAGCCCCCTGAT
 CCCCACCGGGGCGCTAAGGTATCCGTGCAGACCCGAGGGGGACGTCGTCGCCACAGTTCAGAGACCT
 TCTCCTTACCACCAGTGTACCCAGTGTCCCATCCTTTGCTCACAATTCCAAGCGCCACAATTCCGGC
 CTCTGTGAAAACGTCTCTCTCAGGAAAAGCAGTGAAGGCAACAGCATCCTGGGAGGAAGTATGAGCCA
 TCCACATCCCAGGACAGGCACAGCCCTCGGCAGGTGTGCCCCAGCGCCACAGGCTAGGCCATGGAACC
 CCGGTGAGCCTGGAGCTTGTATTGGCTGTCTGGAGGCAGCAGTCTCCATGCGCAGAGAGACCTCCGT
 GGGTTTCCAGAACGGCCTCAACTATATCGCCATCGATGTGAGAGGTGAGCAGGGGCTTGGCGCAGTCT
 CAGCCTCAGCATCCACAGCCAGGAGACAAGAACTCCTGGGGCCGACCCGTAGCCTTGGGGGCTCCTCG
 GTACCGTTGGAGGCTCTGGCACCAGTGGAGTGTGTGGGGTCCAGGCACTGGAGCCTTACCTCTGCCAG
 CACCTACGCAAGCATCGACTTCTGTCCATCACTTGAAGAAGCCACCGTGGTGAAGAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001168633
- Insert Size:** 3984 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001168633.1, NP_001162104.1</u>
RefSeq Size:	6301 bp
RefSeq ORF:	3984 bp
Locus ID:	29376
Cytogenetics:	16q12.5
Gene Summary:	plays a role in insulin-stimulated fetal liver growth [RGD, Feb 2006]