

Product datasheet for **SC115938**

FRS2 (NM_006654) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRS2 (NM_006654) Human Untagged Clone
Tag:	Tag Free
Symbol:	FRS2
Synonyms:	FRS1A; FRS2A; FRS2alpha; SNT; SNT-1; SNT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115938 sequence for NM_006654 edited (data generated by NextGen Sequencing)

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ATGGGTAGCTGTTGTAGCTGTCCAGATAAAGACTGTCCAGATAACCATCGGAACAAG
TTTAAGGTCATTAATGTGGATGATGATGGGAATGAGTTAGGTTCTGGCATAATGGAACCT
ACAGACACAGAAGTATTTTATACACCCGCAAACGTGACTCAGTAAAATGGCACTACCTC
TGCTGCGACGCTATGGCTATGACTCGAATCTCTTTTCTTTTAAAAGTGGTGAAGGTG
CAAATGGACAAGGAATCTTTGCCTTTAAGTGTGCCCGTGCAGAAGAATTATTTAACATG
TTGCAAGAGATTATGCAAAATAATAGTATAAATGTGGTGAAGAGCCAGTTGTAGAAAGA
AATAATCATCAGACAGAATTGGAAGTCCCTAGAACACCTCGAACACCTACAACCTCCAGGA
TTTGCTGCTCAGAACTTACCTAATGGATATCCCCGATATCCCTCATTTGGAGATGCTTCA
TCCCATCCGTCAAGCAGACATCCTTCTGTGGGAAGTGTGCTGCCTGCCTCAGTAGGGGAA
GAATCTACACATCCTTTGCTTGTGGCTGAGGAACAAGTACATACCTATGTCAACACTACA
GGTGTGCAAGAAGAGCGGAAAAACCGCACAAAGTGTGCATGTTCCATTGGAGGCGAGGGTT
TCTAACGCTGAAAGCAGCACACCAAAAAGAACAAGTATGATTGAGGACAGGGATCCT
CAGATTCTTCTTGAACCTGAAGGAGTCAAATTTGTTTTAGGGCCAACCCCTGTTCAAAG
CAGTTAATGGAAGAGAGAACTGGAGCAACTTGAAGAGATCAAGTTAGTGAAGTGA
GCAAAATAACACAGAATGGGACTGGCTATGACAGTGTGAACGAAGAGATGCACCCCTCT
GTTAACAACTGGTGTATGAAAATATAAATGGGCTATCTATCCCTAGTGCCTCAGGGGTC
AGGAGAGGTGCTGACATCCACAGTACCTCAGATACCCAGAATATCAACAACCTCAGCT
CAGAGAAGAACTGCATTATTAACCTATGAAAATCTACCATCTTTGCCTCCTGTTTGGGAA
GCCCCGAAAGCTAAGTAGGGATGAAGATGACAATTTAGGACCAAAGACCCCATCTAAAT
GGCTACCATAATAATCTAGATCCAATGCATAACTATGTAATACAGAGAATGTAACAGTG
CCAGCAAGTGTCCACAAAATAGAATATTCAAGGCGTCGGGACTGTACACCAACAGTCTTT
AACTTTGATATCAGACGCCCAAGTTTAGAACACAGGCAGCTTAATTACATACAGGTTGAC
TTGGAAGGTGGCAGTACTCTGACAACCCTCAGACTCCAAAAACGCTACAACCTCCCTT
CCACAAACCCCTACCAGGCGCACAGAGCTGTATGCCGTGATAGACATCGAGAGAAGTGT
GCTATGTCAAATTTGCAGAAAGCACTGCCACGAGATGATGGTACATCTAGGAAAAGTAGA
CACAACTAGTACTGATCTGCCCATGTGA
    
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Clone variation with respect to NM_006654.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_006654 unedited
TTCGGCACGAGGGCTGCCAGAAAGCTCATAAGGAATATTATTCTTTAGAAATGAGAAATT
CTCAATGTTTTTCTTCTGTTTTTAGGTTAAATCAGCAAACAAGAAAACATGGTATTTTTG
AAATATGATTAACCTCCTGATGCTGCAGCAGAGGCTAAGAATATTAATGGCCAGATCTAG
TGCACACATGGTCTTCTGAAGAAGCCATGGGTAGCTGTTGTAGCTGTCCAGATAAAGACA
CTGTCCCAGATAACCATCGGAACAAGTTAAGGTCATTAATGTGGATGATGATGGGAATG
AGTTAGGTTCTGGCATAATGGAACCTACAGACACAGAAGTATTTTATACACCCGCAAAC
GTGACTCAGTAAAATGGCACTACCTCTGCCTGCGACGCTATGGCTATGACTCGAATCTCT
TTTTTTTTGAAAGTGGTGAAGGTGTCAAACCTGGACAAGGAATCTTTGCCTTTAAGTGTG
CCCGTGCAGAAGAATTATTTAACATGTTGCAAGAGATTATGCAAAATAATAGTATAAATG
TGGTGAAGAGCCAGTTGTAGAAAGAAATAATCATCAGACAGAATTGGAAGTCCCTAGAA
CACCTCGAACACCTACAACCTCCAGGATTTGCTGCTCAGAACTTACCTAATGGATATCCCC
GATATCCCTCATTTGGAGATGCTTCATCCCATCCGTCAAGCAGACATCCTTCTGTNGGGA
AGTGCTCGCTGCCTTCAGTAGGGGAAGAATCTACACATNCTTTGCTTGTGGCTGAGGAC
A
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006654 unedited GGATATTTGGGGTTTTTTTACCCATTTTATGTTTTTATCCACACACACTACACATTGTAC AAAACATTTGGGCCTTGGGGGTTAGGGAAAAACCCGGGGGAATTGGGAAAACCTTTCTC TGGAAAACCTTTCTTGCAGCATAAGATATGGCGGCACATTGTTGGGAAATATGAAAAC TTTAGGCCCCCGCCCATTTGTAACAAAAACATTTTGGGGCCCTTTTTTTGGCGGGG CGCGGTTTTGGGGAGGGGAGGAGATAAACCCCTACCTTGACTTGTCTATTAACAACTT GAACCTGGAGAGTCAACATTATTGTCTGTAAAAACAACCTTGTCTCGCCAAATTTTC CTAACCCCAAATTTGAGGTATTCGGGAAATTCTGGGAAGTGAAAAGCTTTTTGCTGAAT CTTAAAGAGTAAAGTGCATACCTCATCACTCCACAGAACTTTAAATAAAAGGAAATTTT TGCCAATCTTCCCGAGGGGGGAAGGCACCATATTTTCATTTTTAAAAAAGATGACAC TGGGAAATAAACACACTAACAAAAACCCTTGTAAATACCAATATCGGTTTCCAACCTAG CATGGGATAGATGCTGATAAGAATTGTCTGGATAAAACAATATCTTTTTGGAGGGAACT TCACCACGATTAATTTCAAACCCAGAACGAGGATCACATGGTCAACAAACAAATCTCT AAAATTTATTCTGCCTCGGAAAACCTTAAATTTTTGGCCACATTTTTGGCTAATAAAAA AACCTTTTATTTGAAAAGCCCCCGGAAGAAGGCCCATCTTCCGGGGACCAACTTTTG GGCCATTAATAAAATTTGCAAAGAACCTTTTTTTTTTAAAAACCCCTTTTTTATAAGGAA CCCTTTGGTTTTCTAAAATTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_006654
Insert Size:	5200 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:	<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_006654.2</u> , <u>NP_006645.2</u>
RefSeq Size:	1840 bp
RefSeq ORF:	1539 bp
Locus ID:	10818
UniProt ID:	<u>Q8WU20</u>
Cytogenetics:	12q15
Domains:	IRS
Protein Families:	Druggable Genome

Protein Pathways: Neurotrophin signaling pathway

Gene Summary: Adapter protein that links activated FGR and NGF receptors to downstream signaling pathways. Plays an important role in the activation of MAP kinases and in the phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, in response to ligand-mediated activation of FGFR1. Modulates signaling via SHC1 by competing for a common binding site on NTRK1.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) lacks an exon in the 5' UTR, compared to variant 3. All variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.