

Product datasheet for **RG205842**

FRS2 (NM_006654) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRS2 (NM_006654) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FRS2
Synonyms:	FRS1A; FRS2A; FRS2alpha; SNT; SNT-1; SNT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG205842 representing NM_006654
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTAGCTGTTGTAGCTGTCCAGATAAAGACTGTCCAGATAACCATCGGAACAAGTTAAGGTCA
 TTAATGTGGATGATGATGGGAATGAGTTAGGTTCTGGCATAATGGAACCTACAGACACAGAAGTATTTT
 ATACACCCGCAAACGTGACTCAGTAAAAATGGCACTACCTCTGCCTGCGACGCTATGGCTATGACTCGAAT
 CTCTTTCTTTTGAAGTGGTCGAAGGTGTCAAAGTGGACAAGGAATCTTTGCCTTTAAGTGTGCCCGTG
 CAGAAGAATTATTAACATGTTGCAAGAGATTATGCAAAATAATAGTATAAATGTGGTGGAAAGAGCCAGT
 TGTAGAAAAGAAATAATCATCAGACAGAATTGGAAGTCCCTAGAACACCTCGAACACCTACAACCTCCAGGA
 TTTGCTGCTCAGAACTTACCTAATGGATATCCCGGATATCCCTCATTTGGAGATGCTTCATCCCACCGT
 CAAGCAGACATCCTTCTGTGGGAAGTGTCTGCCTGCCTCAGTAGGGGAAGAATCTACACATCCTTTGCT
 TGTGGCTGAGGAACAAGTACATACTATGTCAACACTACAGGTGTCAAGAAGAGCGGAAAAACCGCACA
 AGTGTGCATGTTCCATTGGAGGCAAGGGTTTCTAACGCTGAAAGCAGCACACCAAAAAGAAGAACCAAGTA
 GTATTGAGGACAGGGATCCTCAGATTCTTCTTGAACCTGAAGGAGTCAAATTTGTTTTAGGGCAACCCC
 TGTTCAAAGCAGTTAATGGAAAAGAGAACTGGAGCAACTGGAAAGAGATCAAGTTAGTGAAGTGGG
 GCAAATAACACAGAATGGGACTGGCTATGACAGTGTGAACGAAGAGATGCACCCTCTGTTAACAAAAC
 TGGTGTATGAAAATATAAATGGGCTATCTATCCCTAGTGCCTCAGGGGTGAGGAGGTCGCTGACATC
 CACCAGTACCTCAGATACCCAGAATATCAACAACCTCAGCTCAGAGAAGAACTGCATTATTAACCTATGAA
 AATCTACCATCTTTGCCTCCTGTTTGGGAAGCCGCAAGCTAAGTAGGGATGAAGATGACAATTTAGGAC
 CAAAGACCCCATCTCTAAATGGCTACCAATAAATCTAGATCCAATGCATAACTATGTAATACAGAGAA
 TGTAAACAGTGCCAGCAAGTGTCTACAAAATAGAATATTCAAGGCGTCGGGACTGTACACCAACAGTCTTT
 AACTTTGATATCAGACGCCCAAGTTTAGAACACAGGCAGCTTAATTACATACAGGTTGACTTGAAGGTG
 GCAGTGACTCTGACAACCTCAGACTCCAAAACGCCTACAACCTCCCCTCCACAAAACCCCTACCAGGCG
 CACAGAGCTGTATGCCGTGATAGACATCGAGAGAAGTGTCTGTATGTCAAATTTGCAGAAAGCACTGCCA
 CGAGATGATGGTACATCTAGGAAAACCTAGACACAATAGTACTGATCTGCCCATGTTAGCCTGAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205842 representing NM_006654
 Red=Cloning site Green=Tags(s)

MGSCCSPDKDTPVDNHRNKFVINVDDDGNELGSGIMELTDELILYTRKRDSVKWHYLCLRRYGYDSN
 LFSFESGRRCQTGQIFAFKCARAEELFNMLQEI MQNNSINVVEEPVVERNHHQTELEVPRTPPTTPG
 FAAQNL PNGYPRYPSFGDASSHPSSRHPSVGSARLPSVGEESTHPLLVAEEQVHTYVNTTG VQEERKNRT
 SVHVPLEARVSNAESSTPKEEPSIEDRDPQILLEPEGVKFVLGPTPVQKQLMEKEKLEQLGRDQVSGSG
 ANNTEWDTGYDSDERRDAPSVNKL VYENINGLSIPSASGVRRGRLTSTSTSDTQINNSAQRRTALLNYE
 NLPSPVPPWEARKLSRDEDDNLGPKTPSLNGYHNNLDPMHNYVNTENVTPASAHKIEYSRRRDCTPVF
 NFDIRRPSLEHRQLNYIQVDLEGGSDSDNPQTPKTPPTPLPQTPTRTEL YAVIDIERTAAMSNLQKALP
 RDDGTSRKTRHNSTDLPMLAWK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006654

ORF Size: 1536 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:

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_006654.2](#), [NP_006645.2](#)

RefSeq Size: 6882 bp

RefSeq ORF: 1527 bp

Locus ID: 10818

UniProt ID: [Q8WU20](#)

Cytogenetics: 12q15

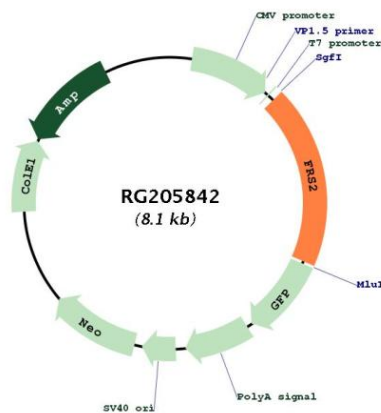
Domains: IRS

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]

Product images:



Circular map for RG205842