

Product datasheet for **RG238623**

FRS2 (NM_001278356) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRS2 (NM_001278356) 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)



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ORF Nucleotide Sequence:

>RG238623 representing NM_001278356.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGTAGCTGTTGTAGCTGTCCAGATAAAGACACTGTCCAGATAACCATCGGAACAAGTTTAAAGTTC
ATTAATGTGGATGATGATGGGAATGAGTTAGTTCCTGGCATAATGGAACCTACAGACACAGAAGTATT
TTATACACCCGCAAACGTGACTCAGTAAAATGGCACTACCTCTGCCTGCGACGCTATGGCTATGACTCG
AATCTCTTTTCTTTTGAAGTGGTCAAGGTGTCAAACCTGGACAAGGAATCTTTGCCTTTAAGTGTGCC
CGTGCAGAAGAATTATTTAACATGTTGCAAGAGATTATGCAAAAATAAGTATAAATGTGGTGGAAAGAG
CCAGTTGTAGAAAAGAAATAATCATCAGACAGAATTGGAAGTCCCTAGAACACCTCGAACACCTACAAC
CCAGGATTTGCTGCTCAGAACTTACCTAATGGATATCCCCGATATCCCTCATTTGGAGATGCTTCATCC
CATCCGTC AAGCAGACATCCTTCTGTGGGAAGTCTCGCTGCCTTCAGTAGGGGAAGAATCTACACAT
CCTTTGCTTGTGGCTGAGGAACAAGTACATACCTATGTCAACACTACAGGTGTGCAAGAAGAGCGGAAA
AACCGCACAAGTGTGCATGTTCCATTGGAGGCAAGGGTTCTAACGCTGAAAGCAGCACACCAAAAAGAA
GAACCAAGTAGTATTGAGGACAGGGATCCCTCAGATTCTTCTTGAACCTGAAGGAGTCAAATTTGTTTTA
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AGTGGAAGTGGAGCAAATAACACAGAATGGGACTGGCTATGACAGTGTGAACGAAGAGATGCACCC
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CAGGTTGACTTGGAAAGTGGCAGTACTCTGACAAACCCTCAGACTCCAAAAACGCCTACAACCTCCCTT
CCACAAACCCCTACCAGGCGCACAGAGCTGTATGCCGTGATAGACATCGAGAGAAGTGTGCTATGTCA
AATTTGCAGAAAGCACTGCCACGAGATGATGGTACATCTAGGAAAAGTACACACAATAGTACTGATCTG
CCCATGTTAGCCTGAAA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG238623
 Blue=ORF Red=Cloning site Green=Tag(s)

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MGSCCSPDKDTPVDNHRNFKVINVDDDGNELGSGIMELTDELILYTRKRDSVKWHYLCLRRYGYDS
NLF SFGRRRCQTGGQIFAFKCARAEELFNMLQEIMQNNSINVVEEPVVERNHHQTELEVPRTPRPTT
PGFAAQNL PNGYPRYP SFGDASSHPSSRHPSVGSARLPSVGEESTHPLLVAEEQVHTYVNTTGVQEERK
NRTSVHVPLEARVSNAESSTPKPEPSSIEDRDPQILLEPEGVKFVLGPTPVQKQLEMEKELEQLGRDQV
SGSGANTEWDTGYDSDERRDAPSVNKL VYENINGLSIPSASGVRGRGLTSTSTSDTQINNSAQRRTA
LLNYENLPSLPPVWEARKLSRDEDDNLGPKTPSLNGYHNNLDPMHNYVNTENVTPASAHKIEYSRRRD
CTPTVFNFDIRRRSLEHRQLNYIQVDLEGGSDSNPQTPKPTTPLPQTPTRTELYAVIDIERTAAMS
NLQKALPRDDGTSRKTRHNSTDLPLAWK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

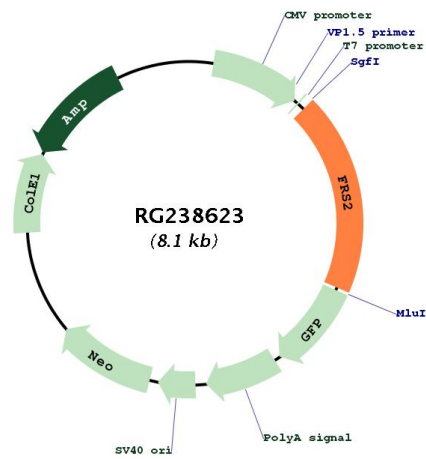
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001278356
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).
RefSeq:	NM_001278356.1 , NP_001265285.1
RefSeq Size:	6815 bp
RefSeq ORF:	1527 bp
Locus ID:	10818
UniProt ID:	Q8WU20
Cytogenetics:	12q15
Protein Families:	Druggable Genome
Protein Pathways:	Neurotrophin signaling pathway
MW:	57.5 kDa
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]