

Product datasheet for **MG208163**

Frs2 (NM_177798) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frs2 (NM_177798) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Frs2
Synonyms:	4732458E18; C330018A15Rik; Frs2alpha; SNT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208163 representing NM_177798
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTAGCTGTTGTAGCTGTCCAGATAAAGACTGTCCAGATAACCATCGGAACAAGTTTAAGGTCA
 TTAATGTGGATGATGATGGGAATGAGCTAGGCTCTGGTGTGATGGAACACACAGACACAGAGCTGATTCT
 GTACACCCGAAAACGGGACTCGGTAAAAATGGCACTACCTCTGCCTACGACGATACGGCTATGACTCAAAT
 CTGTTTTCTTTTGAAGTGGTCGAAGGTGTGACTGGACAAGGAATTTTTGCTTTTAAGTGTGCCCGTG
 CAGAAGAATTATTAACATGTTGCAAGAGATTATGCAAAATAATAGTATAAATGTGGTGGAAAGAGCCGGT
 TGTAGAAAGGAGTAGTCATCAGACAGAGCTGGAAGTCCCTAGGACACCTCGGACACCTACAACCTCCAGGG
 CTCGGTGTCTCAGAACTTACCTAATGGGTATCCCGCTACCCCTCGTTTGGAGACGCTTCATCCACCCT
 CAAGCCGGCATCCTTCGGTGGGAAGTGTCTGCTTACCTTCAGTCGGTGAAGAGTCCACACACCCTTTGCT
 CGTGGCTGAGGAACAAGTACATACTTATGTTAACACTACAGGTGTGCAAGAGGAGCGAAAAAACCGTGCA
 AGTGTGCATGTTCCCCAGAGGCAAGGGTTTCTAATGCTGAGAGCAACACACCAAAAAGAAGCCGAGTA
 ACCCCGAGGACAGGGACCCGCAAGTGTCTTAAAGCCTGAAGGAGTCAGGTTTGTCTAGGACCAACCCC
 TGTCCAGAAGCAGTTAATGGAAAAGGAGAACTGGAGCAACTGGGAAAAGACCCAGTCAGTGGGAGTGGA
 GCGGGCAACACGGAGTGGGACACCGGCTATGACAGTGACGAGCGCAGAGATGTGCCCCCTGTCAACAAAC
 TGGTGTATGAAAATATAAACGGGCTATCTATCCAGTGCCTCAGGGGTGAGGAGGTCGCTGACATC
 TACCAGCACCTCAGACACCCAGAATATCAACAACCTCAGCGCAGAGAAGACCTGCACTATTAACCTATGAA
 AATTTACCATCTTTGCCCTCTGTTTGGGAAGCCCGCAAGCTCAGTAGGGATGAAGATGACAATTTAGGAC
 CAAAGACCCCATCTCTAAATGGCTACCAATAAATCTAGATCCAATGCACTAATGTTAATACAGAGAA
 TGTAAACAGTGCCCGCAAGTGTCTCAAAAATAGACTATTGGAAGCGCAGGGATTGTACACCCGACAGTCTTT
 AACTTTGATATCAGGCGACCCAGTTTAGAACATAGGCACTCAATTATATACAGGTGGATTTGGAAGGGG
 GCAGTGACTCTGACAACCCTCAGACTCCAAAAACGCCGACCACTCCCCTCCCGAAAACCCACGCGGCG
 CACAGAGCTGTACGCTGTGATAGACATTGAGAGAACTGCTGCTATGTCCAACCTGCAGAAAAGCGCTGCC
 CGAGACGACGGTACATCTCGGAAGACGAGGCACAATAGTACTGACCTGCCCATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208163 representing NM_177798
 Red=Cloning site Green=Tags(s)

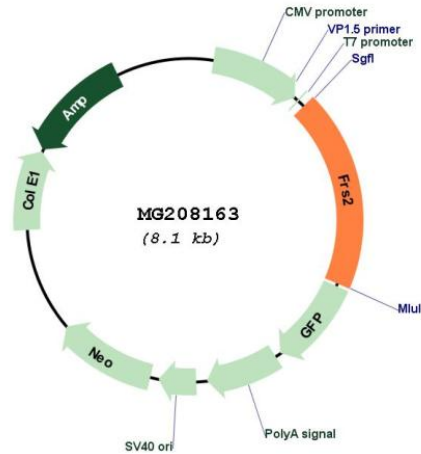
MGSCCSPDKDTPVDNHRNKFVINVDDDGNELGSGVMELTDELILYTRKRDSVKWHYLCLRRYGYDSN
 LFSFESGRRCQTGQIFAFKCARAEELFNMLQEIMQNNINNVVEEPVVERS HQTELEVPRTPPTTPG
 LGAQNL PNGYPRYPSFGDASSHPSSRHPSVGSARLPSVGEESTHPLLVAEEQVHTYVNTTG VQEERKNRA
 SVHVPPPEARVSNAESNTPKEEPSNPEDRDPQVLLKPEGVRFVLGPTPVQKQLMEKEKLEQLGKDPVSGSG
 AGNTEWDTGYDSDERRDVPVNKLVYENINGLSIPASGVRRGRLTSTSTSDTQINNSAQRRPALLNVE
 NLPSPVPPWEARKLSRDEDDNLGPKTPSLNGYHNNLDPMHNYVNTENVTPASAHKIDYSKRRDCTPVF
 NFDIRRPSLEHRQLNYIQVDLEGGSDSDNPQTPKTPPTPLPQTPTRTEL YAVIDIERTAAMSNLQKALP
 RDDGTSRKTRHNSTDLP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_177798

ORF Size: 1524 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_177798.3](#), [NP_808466.1](#)

RefSeq Size: 5701 bp

RefSeq ORF: 1527 bp

Locus ID: 327826

UniProt ID: [Q8C180](#)

Cytogenetics: 10 D2

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]