

Product datasheet for **MR208163**

Frs2 (NM_177798) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frs2 (NM_177798) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frs2
Synonyms:	4732458E18; C330018A15Rik; Frs2alpha; SNT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208163 representing NM_177798
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTAGCTGTTGTAGCTGTCCAGATAAAGACTGTCCAGATAACCATCGGAACAAGTTTAAGTCA
 TTAATGTGGATGATGATGGGAATGAGCTAGGCTCTGGTGTGATGGAACACACAGACAGAGCTGATTCT
 GTACACCCGAAAACGGGACTCGGTAATAATGGCACTACCTCTGCCTACGACGATACGGCTATGACTCAAAT
 CTGTTTTCTTTTAAAAGTGGTCGAAGGTGTGACTGGACAAGGAATTTTTGCTTTTAAAGTGTGCCCGTG
 CAGAAGAATTATTAACATGTTGCAAGAGATTATGCAAAATAATAGTATAAATGTGGTGGAAAGAGCCGGT
 TGTAGAAAGGAGTAGTCATCAGACAGAGCTGGAAGTCCCTAGGACACCTCGGACACCTACAACCTCCAGGG
 CTCGGTGTCTCAGAACTTACCTAATGGGTATCCCGCTACCCCTCGTTTGGAGACGCTTCATCCACCCCT
 CAAGCCGGCATCCTTCGGTGGGAAGTGTCTGCTTACCTTCAGTCGGTGAAGAGTCCACACACCCCTTTGCT
 CGTGGCTGAGGAACAAGTACATACTTATGTTAACACTACAGGTGTGCAAGAGGAGCGAAAAACCGTGCA
 AGTGTGCATGTTCCCCAGAGGCAAGGGTTTCTAATGCTGAGAGCAACACACCAAAAAGAAGACCGAGTA
 ACCCCGAGGACAGGGACCCGCAAGTGTCTTAAAGCCTGAAGGAGTCAGGTTTGTGCTAGGACCAACCC
 TGTCCAGAAGCAGTTAATGGAAAAGGAGAACTGGAGCAACTGGGAAAAGACCCAGTCAGTGGGAGTGGA
 GCGGGCAACACGGAGTGGGACACCGGCTATGACAGTGACGAGCGCAGAGATGTGCCCCGTCAACAAAC
 TGGTGTATGAAAATATAAACGGGCTATCTATCCAGTGCCTCAGGGGTGAGGAGGTCGCTGACATC
 TACCAGCACCTCAGACACCCAGAATATCAACAACCTCAGCGCAGAGAAGACCTGCACTATTAACCTATGAA
 AATTTACCATCTTTGCCCTCTGTTGGGAAGCCGCAAGCTCAGTAGGGATGAAGATGACAATTTAGGAC
 CAAAGACCCCATCTCTAAATGGCTACCAATAAATCTAGATCCAATGCATAACTATGTTAATACAGAGAA
 TGTAACAGTGCCGGCAAGTGTCTACAAAATAGACTATTGGAAGCGCAGGGATTGTACACCGACAGTCTTT
 AACTTTGATATCAGGCGACCCAGTTTAGAACATAGGCACTCAATTATATACAGGTGGATTTGGAAGGGG
 GCAGTGACTCTGACAACCTCAGACTCCAAAAACGCCGACCACTCCCTCCCGAAAACCCACGCGGCG
 CACAGAGCTGTACGCTGTGATAGACATTGAGAGAACTGCTGCTATGTCCAACCTGCAGAAAAGCGTGCCT
 CGAGACGACGGTACATCTCGGAAGACGAGGCACAATAGTACTGACCTGCCCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208163 representing NM_177798
 Red=Cloning site Green=Tags(s)

MGSCCSPDKDTPVDNHRNFKVINVDDDGNELGSGVMELDTELILYTRKRDSVKWHYLCLRRYGYDSN
 LFSFESGRRRCQTGQGFIAFKCARAEELFNMLQEIMQNNSINVVEEPVVERSSHQTELEVPRTPRPTTPG
 LGAQNLPNGYPRYPSFGDASSHPSRHPVSGSARLPSVGEESTHPLLVAEEQVHTYVNTTGVQEERKNRA
 SVHVPPEARVSNASNTPKKEEPSNPEDRDPQVLLKPEGVRFVLPPTPVQQLMEKEKLEQLGKDPVSGSG
 AGNTEWDTGYDSDERRDVPPVNKLVYENINGLSIPSASGVRRGRLTSTSTSDTQINNSAQRRLPALLNVE
 NLPSPVWEARKLSRDEDDNLGPKTPSLNGYHNNLDPMHNYVNTENVTPASAHKIDYSKRRDCTPTVF
 NFDIRRPSEHRQLNYIQVDLEGGSDSDNPQTPKTPPTPLPQTPTRTEL YAVIDIERTAAMS NLQKALP
 RDDGTSRKTRHNSTDLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9035_h08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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

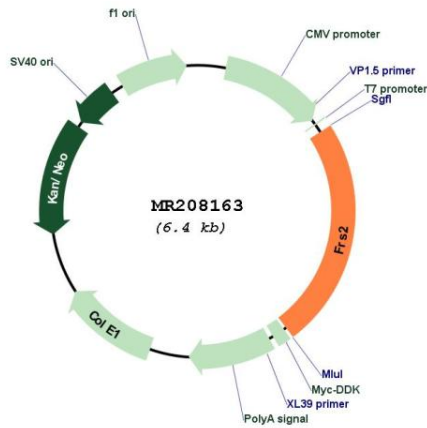
UniProt ID: [Q8C180](#)

Cytogenetics: 10 D2

MW: 57.2 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]

Product images:



Circular map for MR208163