

Product datasheet for **MR209228**

Frrs1 (NM_001113478) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frrs1 (NM_001113478) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frrs1
Synonyms:	AI131732; Sdfr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR209228 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCGGCTCCCCAGATCACCTCAGTGTCTTGTGATTGCCTTGCTCACTTGCTCTGTGACTGCTTATC
 CCAATGGCAAAGTACCAATGTCTGTGGTGGGATGATCCCCAACATAAACCACAGCCACAGTCTGAGCC
 TATTCACCAAATCACAGTGAGTCAGACGACGTTCAAACCTGGAGACCAGATCGAAGTTACTTTATCAGGA
 CCACCATTTAGAGGCTTTCTTTTGAAGCTCGTGATGCTGAGAATTTAGCGGCCCTCTATTGGCTCCT
 TCACTCTGATTGACAGCGAAGAGTCACAGCTTCTGACCTGTACCGATGTACAGGGATTAGCTGTGAGTCA
 TACAAGGTCATCCAAGAAGACAGAAATTAAGTCTACTGGGATGCTCAAGCCCTGCCCCAGATCACATA
 CGATTTCTAGCTACAGTTGTTTCAAGATTTAAATCTACTGGGTGAAGATTCCGAGTCCCGTAATTTCCC
 AACCGAATGCTCCTCCCTTACGACACCTAAAGCTACAACCCAACTTTGACAACGCCACCTTCTGTCTC
 ACCTTAACCAAACCATTCAGTGCCTTCGAGTGTGGGAACAAGAAGTTCTGTGTCAGGAGTCTTTGAAC
 TGTGATCCAGAGAAGGAGCTGCATGCGTCTTCTGTCTTACCAGAGACAACAGTCAGTGATGGTTG
 AAATGAGCGGACCCAGTGACGGCTATGTGTCGTTTGCAATTTCTCACGACCAAGTGGATGGCGACGATGA
 TGCTTACTTGTGCATCCGTGAGGACCAGACAGTAGATATACAGCCTTCTACTTGACAGGGAGAAGTTAT
 CCTGTGATGGACTCCAGGGGACTCTGGAGGACATGGCCTGGAGGCTGGCGGACGCGTCATACAGTGTT
 CATTGAGAAGAACATCACCTTCTCTGAGGCTAAGAACAGATTTGTGCTGAATGAGAGCTACTACATATT
 CTTGCGAGAAGGCCGCTCTCACGACGGCCGAATATTTAGGCATCTCAGCAACCTTTGATAACATATGAA
 AAATAACAGTAACAGACACTCAAAGAGCGTAGGAGGGTCCCGCTCCTACCCCTTTGAAGGCTCATG
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 TGTGTTGGTCGAAAGCTTTCTTCTCAGGGAAGCAGCTTGGTTTCAGGTGCATCGGATGCTCATGGTAGCT
 ACCTCCCTGCTCACCTGCGTTGCTTTGTTTGCCTTTGTGTACCGCGAGGCTGGAGTTGGCGCGCAG
 GCTACCACCCGTACCTCGTTGTACAGTGATGACCTTAGCTGTCTTACGCTCTGCTGGCAACCTTCAG
 ACCACCTTTACACGACCAAGGAGGCAAGTGTTAAGTGGACTCACTGGAGTGTGGGGACAGCCGCTAGA
 ATAATAGCAGTGGCAGCAATGTTCTAGGAATGGATTTGCCAGGACTGAATCTTCCAGTCCACAGAAGA
 CCTACGCAATGATGGGCTTTGTGGTCTGGCACATCGGACTGAGGTCACTCTGGAGATACATGCTTACCG
 GCTCTCTAGAAAAGTTGAAATACTGGACAACGATAGGATTCAAATCCTTCAGTCACTGACTGTGCGAGAA
 GCAGAGGGTCATGTTTTTAAGAAGGTGGTGTGGCCGTTACATATGTGGGAATGTGATTTTCTCTCGA
 TATTCTTATCTGAATCAACCACATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

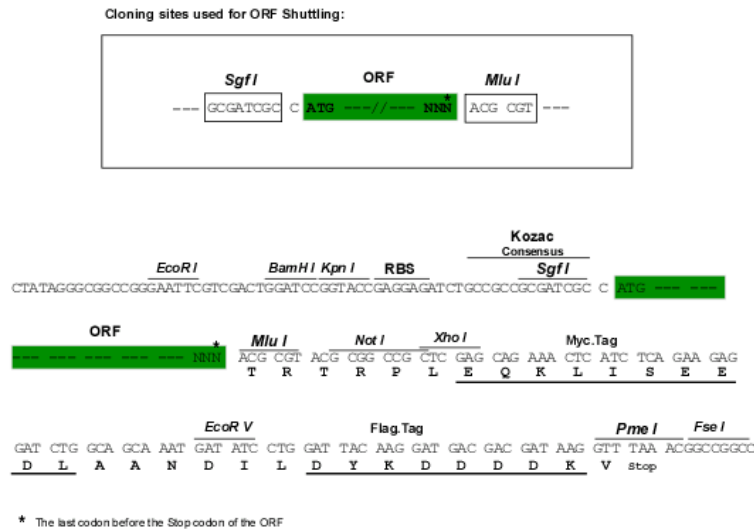
>MR209228 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPQITLSVLVIALLTCSVTAYPNGKVPMSCGMIPQHNHPQSEPIHQITVSQTTFKPGDQIEVTLTG
 PPFRGFLLEARDAENLSGPPIGSFTLIDSEESQLLTCTDVQGLAVSHTRSSKTEIKVYWDAPSPAPDHI
 RFLATVVQKFKIYWKIPSPVISQPNAPPFTTPKATTQPLTTPPSVSHLTKPFSAFECGNKKFCVRSPLN
 CDPEKEPACVFLSFRDNQSVMEVMSGPSDGYVSFAFSDQWMDDDAYLCIREDQTVDIQPSYLTGRSY
 PYMDSRGTLMDMAWRLADGVIQCSFRRNITLPEAKNRFVLNYESYIFFAEGPSHDGRIFRHSQQPLITYE
 KYNVTDTPKSVGGSRSSPLLKAHGALMFVAMTTVSIGLVARFFRSVWSKAFFLREAAWFQVHRLMVA
 TSLTLCVAFVLPFYRGGWSWRAGYHPYLGCTVMTLAVLQPLLATFRPPLHDPQRQVFNWTHWSVGTAAAR
 IIAVAAFLGMDLPGLNLPSPQKTYAMMGFVWVHIGTEVILEIHAYRLSRKVEILDNDRIQLQSLTVAE
 AEGHVFKKVVLAIVYICGNVIFLSIFLSAINHI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001113478

ORF Size: 1776 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001113478.1](#), [NP_001106950.1](#)

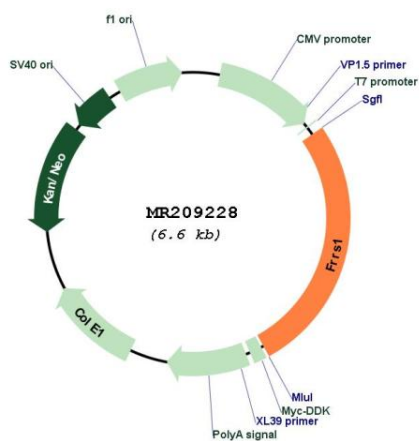
RefSeq Size: 2546 bp

RefSeq ORF: 1779 bp

Locus ID: 20321

UniProt ID: Q8K385
Cytogenetics: 3 G1
MW: 66 kDa
Gene Summary: Ferric-chelate reductases reduce Fe(3+) to Fe(2+) before its transport from the endosome to the cytoplasm.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209228