

## Product datasheet for **MR207884**

### **Frs3 (NM\_144939) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Frs3 (NM_144939) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frs3
Synonyms:	4930417B13Rik; AI449674; Frs2beta; Snt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207884 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGAGCTGCTGGAGCTGCCTGGACAGAGACAGCGTGCCGCACAACCACCCTACCAAGTTCAGGTGA  
 CCAATGTGGATGATGAAGGGGTGGAGTTGGGCTCGGGGGTGATGGAGCTGACCCAGAGTGAGCTGGTGCT  
 ACACCTGCACCAGCGGAAGCTGTCGCTGGCCCTACCTCTGCCTGCGGCGCTATGGCTACGACTCCAAT  
 CTCTTCTCCTTTGAGAGTGGCCGCGCTGTGACAGGCCAGGGCATCTTTGCATTCAAGTGTTCGAGGG  
 CAGAGGACATCTTCAACCTGCTGCAGGACCTCATGCAGTGTAAACAGCATCAACGTGACGGAGGAGCCGGT  
 CATCATCACGCGGAGCAGCCACCACCAGAGCTGGACCTGCCTCGAGGGCCCCACAGCCCGCTGGCTAC  
 ACGGTCTCTGGCTTCTCAATGGCTTCCCTGGCTGCCCTGGAGAGGGCCACGGTTCTCTCCGCACCTC  
 GCCGACCTCCACAAGCAGTCTGCGACACCCCTCGCTGGGAAGAGTCTACCCACACCTCATTGCCTC  
 CGAGGAGCAGTCTCACACCTATGTCAACACACCAACTGGGGATGAGGATGGCAGAAGTCGCCACTGCCTG  
 CAGCCACTGCCTGAGGGCAGGGTACCCCTCCAGCACAGACACAGGGTCCGACCAAGCAGACCCACAGG  
 TGGTGTCCAGCCAGGGCAGGTCAAGTTCGTGCTGGGCCCCACCCTGCTCGGCGCAGGTGATGAAGTG  
 CCAGAGCCTCTGCCCGGCATGCAGGACCTCCCCATCACAACAACAACGAGGGCCCTTCTGAGTGCCCA  
 GCCCAGCCAAATGCACCTACGAGAAGCTCAGCGGGGGCTGCAGCAAGGGGGTGGCTGGAGACTGAGCC  
 CTGAGGAGCGAGGGTGGAGTGGCTGGCCACCCTCGGGCGGCCCTGCTGCACTATGAGAACCTGCCCC  
 ACTTCCCCAGTGTGGGAGGCCAAGGTCAACAGCCGGGAGGGGAGGCTGGGGATGATGGGACTCCAGG  
 GACGGGCTTACCCGCTCCTCAAATGGCTTCCCTGATGGCGAGGAGGATGAAACCCCGCTACAGAAACCA  
 CCAGCACGCGGGCTCCGCCCTAGCCACAGCGGCTTCCCTGTCCACTGACCCGCGCAGGCTCCCC  
 CGGGGTCTTCAACTTTGATTTCCGCCGGCAGGGCCCTGAGCCCCAAGGCAGCTCAACTACATCCAGGTG  
 GAGCTCAAGGGCTGGGGTACAGCCCGTCCAAGGGGCCCAAGACCCCTCAGTGTCTGGACTCCTGGGC  
 CCACCCACACCTGTTGCGAGCTCAGACTCGTATGCCGTGATTGACCTCAAGAAAACGGCGGCCATGTC  
 CGACCTGCAGAGGGCTCTGCCCGAGATGATGGCGCGGTGAGGAAGACTCGGCACAACAGCACCGACCTG  
 CCTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207884 protein sequence  
 Red=Cloning site Green=Tags(s)

MGSCWSCLDRDSVPHNHPTKFKVTNVDDEGVELGSGVMELTQSELVLHLHQREAVRWPYLCLRRYGYDSN  
 LFSFESGRRRCQTGQGFIFAFKCSRAEDIFNLLQDLMQCNSINVTEEPVITRSSHPPDLPRGPPQPAY  
 TVSGFSNGFPGCPGEGPRFSSAPRRPSTSSLRHPSPGEESTHTLIASEEQSHTYVNTPTGDEDGRSRHCL  
 QPLPEGRVPLPAQTQGSQDQDPVLLQPGQVKFVLGPTPARRQVMKCQSLCPGMQDPPHHNNNEGPSECP  
 AQPKCTYENVSGGLQQGAGWRLSPEERGWGLAHRRAALLHYENLPLPPVWESQGGQPGGEAGDDGDSR  
 DGLTPSSNGFPDGEDETPKPTSTRASARSHSGFPVPLTRRRGSPRVFNDFRQGPPEPPRLNYIQV  
 ELKGGWTARPKGPQNPVSGAPGTPHPVRS SDSYAVIDLKKAAMSDLQRALPRDDGAVRKRHNSTDL  
 PL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_144939

**ORF Size:** 1479 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\\_144939.2](#), [NP\\_659188.1](#)

**RefSeq Size:** 2135 bp

**RefSeq ORF:** 1479 bp

**Locus ID:** 107971

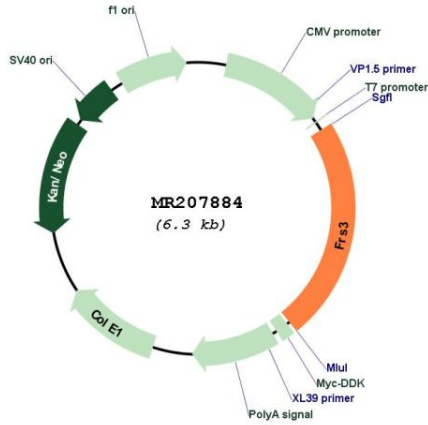
**UniProt ID:** [Q91WJ0](#)

**Cytogenetics:** 17 C

**MW:** 54 kDa

**Gene Summary:** Adapter protein that links FGF and NGF receptors to downstream signaling pathways. Involved in the activation of MAP kinases. Down-regulates ERK2 signaling by interfering with the phosphorylation and nuclear translocation of ERK2.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207884