

Product datasheet for **MC219087**

Tm7sf3 (NM_026281) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tm7sf3 (NM_026281) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tm7sf3
Synonyms:	2010003B14Rik; NARP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219087 representing NM_026281
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGCGGCTGCGCCTGCTGGTCTAGCGGTGCTGGCGGCGGCAGCGCCGAGGCCAGGCCAACTCCA
 GCGACGGTTTCCTTGAGTTTTCTGTGGGAAAATTTACATACTTTGTGCTCAGCAAGTCCTCTCCGAGGA
 GGCCGTCCTGCGCCATATTTCAAGCAATGTGACCTTTCTCTTTTCCAAATACACTCACAGTATCAGAA
 ACCACGGTTTCATTTACTAAGACTCTCCTTCCCAGCACGTGAGAACAGGCAACGACAGAGGGCTGGTCT
 TCATTCTTAGACCGGAGCAGGCAGTGTGACTTGGTACTTGGAGACGGGAGACACCAAGCCTGTCCAAAG
 CGTGGCCCTTACGCTCTCCTACTCAGAAAGAGATCCCATTCTGGAGGCTGCAATTTGGAGTTTGATTTA
 GATATTGACCCCAACCTCTATTTGGACTATAATTTTTTTGAGACAATCAAGTTCGCACCAGCAAACA
 TAGGCTATGCAAGGGCTACAGAGCCCCACCGTGTGATGTGAGCACCAGCCGAGAGTCCAGTGGAGGCT
 GCGCTATGACGTGTACCAGTACTTCTGCCGAGGGCGACCTCACCGAGGCTCTCTGCTCCATCATCTT
 CAGAGGATGGCCAGGTGGCTCAGGTGAAGGCCAGTGCCATCAAGGTGGCCACCCTAACAGCTGACGATA
 AAACAGCCGTGTCTTCTTCTTCCCTCCCGGACAGGAGTCATCTATAATGTCATCGTTTGGGATCCGTC
 CCTCAATACTTCTGCTGTTATGTGCCCGTGCACACATACGCCTGCAGCTTTGAGTCAGTGGATGGTAAC
 TGTGCTTTTCTGGAAGAGTATCTACGAAAGTGTCTCCACTTTGGTTGCCCTGCTTGGGCTCTTCGTTT
 GTTTCTTTGGACACAGATTCTGGAAAACAGATTTATTCTTATTGGTTCATCTTCTGGGGTCTTCTT
 CTACATCTGATCACCAGACTGACACCCCTTCAATGACGTTTCGCTGGCTCTCACCGCTGTAGCTGGC
 AGCTTTGGTGGCTCCTCCTGGTGGCTTCAATGGTGGCGATTCCGGATCCTCACACTCTGCATGCTGTGTG
 TGGGACTCGTGTGGCTTCTCCTGTCTTCTGGGACTTTCTTCCAGCCTCTGGGAAACCTAAATGTTTT
 TCATGATGATGGAGTGTCTGGGTGACGTTCTCCTGCATAGCGCTGCTTGTCCAGTCATCTTCATGGGC
 TGCCCTAAGAATCTGAACATCCTGGCTTGTGGAGTCGTGGGCTCCTACTCCGTGGTGTGGCTGTTAACA
 GTTACATGTTACAAGCCTCTCCTACATCACCTGAACGTCCTCAGGAGAGCTCTCAACACAGATTTCCG
 AGGGGCTGTCATTAGAGTGCCTTCCAGACCAACGACTACATCATCTGGCCGTGTGGGGATGCTGGCT
 GTCAGTGGAAATTAACCTCAGATTCGAAGAGAAAGAGGACAGCCGCTTTCCCTCCCCACCCTACAAGC
 TATGGAAGCAAGAGAGAGAACGCAGAGTGACCAACATCCTGGACCCAGCCATCACATCCCTCCCTGAG
 AGAGAGGCTTTATGGTCGGGTGCTCGGATCAAAGAGCTTCCAGAAGGAACAGCCGGCTGGAGAGAGG
 ACACCTTGCTTCTG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_026281
- Insert Size:** 1698 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_026281.2](#), [NP_080557.2](#)

RefSeq Size: 3312 bp

RefSeq ORF: 1698 bp

Locus ID: 67623

UniProt ID: [Q9CRG1](#)

Cytogenetics: 6 G3

Gene Summary: Involved in the inhibition of cytokine-induced death of pancreatic beta cells (PubMed:21853325). Involved in the promotion of insulin secretion from pancreatic beta cells (By similarity). Is a downstream transcriptional target of p53/TP53, and acts as a pro-survival homeostatic factor that attenuates the development of cellular stress. Maintains protein homeostasis and promotes cell survival through attenuation of endoplasmic reticulum (ER) stress and the subsequent induction of unfolded protein response (UPR) (PubMed:27740623). [UniProtKB/Swiss-Prot Function]