

Product datasheet for **RN211435**

Tm7sf3 (NM_001011970) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tm7sf3 (NM_001011970) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tm7sf3
Synonyms:	MGC109599
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN211435 representing NM_001011970
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGCGGCTGCGCCTGCTGGTCTGGCGGTGCTGGCGGGCAGCGGGAGGCCAGGCGAACTCCA
 GCGACGGTTTCCTTGAATTTCTGTGGGAAAATTTACGTACTTTGTGCTCAGCAGGCGCTTCCACAGGA
 GGCGTTCTGCGCCACATTTCAAGCAATGTGACCTTTCTCTTTTCCAAATACACTCACAGTATCAGAAC
 ACCACAGTTTCATATACTAAGACTCTCCTCCCCAGCACCTCAGGAACAGGCAACGACAGAGGACTGGTTT
 TCATTCTTAGACCAGAGCAGACTGTGTGCACTTGGTACTTGGAGACAGAAGACACTAAGCCCGTTTCCAGG
 TGTGGCCGTTACACTCTCCTACTCAGAAAGAGATCCCATTCTGGAGGCTGTAATTTGGAATTTGATTTA
 GATATAGATCCCAACATCTACTTGGACTATAATTTTTTGAACAACATCAAGTTTGTCCAGCAAACA
 TAGGCTATGCAAGAGCTGCAGAGCCCCACCGTGTGACGTGAGCAGGCCAGGAGTCCAGTGGAGGCT
 GCGCTACCATGTGTATCAGTACTTTCTGCCGAGGGCGACCTCACGAGGCTCTCTGCTCCAGCATCTT
 CAGAGGATGGCCAGGTGGTCCAGGTGATGGCCAGTGTGCAAGGTGGTACTCTAACAGCTGACGATA
 AGACAGTCGTGTCTTCTCTTCCCTCCGGGACAAGGGGTGATCTATAATGTCATCGTTTGGGATCCCTC
 CCTCAATACCTCTGCTGTTATGTGCCCGTGCACACGTATGCCTGCAGTTTCGATTAGTGGATGGTAAC
 TGCGTTCTCTGGAAGAGTATCTACGAAAGTGTCTCCACTCTGTTGCCCTGCTCGGGCTCTTCACTT
 GTTTCTTTGGACACAGATTCTGGAAAACAGAATTATTCTCGTGGGTTTCATCTTCTGGGGTCTTCTT
 TTACATCTGATCACCAGACTGACGGCCCTGAAGTACGAAGTTCGCTGGTCTCACCGCCGTAGCTGGC
 AGCATTGGTGGACTCCTCCTGGTGGCTCGTGGTGGCGATTCCGGATCCTCACACTGTGCATGCTGTGTG
 TGGGGCTCGTGGGCTTCTCTGCTCTTCTGGGACTTTCTTCACTCCCCTGGGAAACCTAAATGTCTT
 TCATGATGATGGAGTGTCTGGGTGACGTTCTCCTGCATAGCTCTGCTTGTCCAGTCATCTTCTTGGC
 TGCTGAGGATACTGAACATCCTGGCTTGTGGAATAGTGGCTCCTACTCCGTGGTGTGGCCATTAACA
 GTTACATGTTACGAGCCTCTCCTACATCACGCTGAACGTCTCAGGAGAGCTCTCAACGCGGATTTTCG
 AGGGGCTTTCATCAGAGTGCCTTCCAGACCAACGACTACATCATCTGGCCGTGTGGGAAATGCTGGCT
 GTCACTGGAATTACACTTCAGATTCGAAGAGAAAGGGTCCGCCGCCCTTCCACCCCATCCCTACAAGC
 TATGGAAGCAAGAGAGAGAACGCAGAGTGACCAACATTCTGGACCCAGCCATCACATCCCTCCCCTGAG
 AGAGAGGCTTTATGGCTGGTGTGCTCGGATCAAAGAGCTTCCAGAAGGAACAACCGGCTGGAGAGCGG
 ACACCCCTGCTTCTG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001011970
- 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_001011970.1](#), [NP_001011970.1](#)

RefSeq Size: 2074 bp

RefSeq ORF: 1698 bp

Locus ID: 297725

UniProt ID: [Q5FVF4](#)

Cytogenetics: 4q44

Gene Summary: Involved in the inhibition of cytokine-induced death of pancreatic beta cells (By similarity). 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) (By similarity).[UniProtKB/Swiss-Prot Function]