

Product datasheet for **RG200084**

TM7SF3 (NM_016551) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TM7SF3 (NM_016551) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TM7SF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200084 representing NM_016551
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTTCTGCAGCTGCTGGTCGTAGCGGTGCTGGCATCCGAACACCGGGTGGCTGGTGCAGCCGAGG
 TCTTCGGGAATCCAGCGAGGGTCTTATTGAATTTCTGTGGGAAATTTAGATACTTCGAGCTCAATAG
 GCCCTTCCAGAGGAAGCTATTTTGCATGATATTTCAAGCAATGTGACTTTTCTATTTCCAAATACAC
 TCACAGTATCAGAATACTGTTCTTTCTCCGACTCTCCTTTCCAATTCCTCGAAACAGGCACTG
 CCAGTGGACTGGTTTTCATCCTTAGACCAGAGCAGAGTACATGCCTTGGTACTTGGGGACTTCAGGCAT
 ACAGCCTGTCCAGAATATGGCTATCCTACTCTCCTACTCAGAAAGAGATCCTGTCCCTGGAGGCTGTAAT
 TTGGAGTTCGATTAGATATTGATCCCAACATTTACTTGGAGTATAATTTCTTTGAAACGACTATCAAGT
 TTGCCCCAGCAAACCTAGGCTATGCGAGAGGCGTAGATCCCCACCATGTGACGCTGGGACAGACCAGGA
 CTCAGGTGGAGTTGCAGTATGATGTCTATCAGTATTTCTGCCTGAGAATGACCTCACTGAGGAGATG
 TTGCTGAAGCATCTGCAGAGGATGGTCAGTGTGCCCCAGGTGAAGGCCAGTGCTCAAGGTGGTTACCC
 TAACAGCTAATGATAAGACAAGTGTTCCTTCTCCTCCCTCCCGGACAAGGTGTCATATACAATGTCAT
 TGTTTGGGACCCGTTTCTAAATACATCTGCTGCCTACATTCCTGCTCACACATACGCTTGCAGCTTTGAG
 GCAGGAGAGGGTAGTTGTGCTCCCTAGGAAGAGTGTCTTCAAAGTGTCTTCACTCTTTTTGCCTGC
 TTGGTTTCTTCATTTGTTTCTTTGGACACAGATTCTGGAAAACAGAATTTCTTCATAGGCTTTATCAT
 CATGGGATTCTTCTTTATATACTGATTACAAGACTGACACCTATCAAGTATGATGTGAATCTGATTCTG
 ACAGTGTCACTGGAAGCGTCGGTGGAAATGTTCTTGGTAGCTGTGTGGTGGCGATTGGAATCCTCTCGA
 TCTGCATGCTCTGTGTTGGACTAGTGTGGGGTTCCTCATCTCGTCAGTACTTTCTTTACTCCACTGGG
 AAACCTAAAGATTTTTCATGATGATGGTATTCTGGGTCACTTTCTCTTGCATAGCTATCCTCATTCCA
 GTAGTTTTCATGGCTGCCTAAGAATACTGAACATACTGACTTGTGGAGTCATTGGCTCCTATTCGGTGG
 TTTTAGCCATTGACAGTTACTGGTCCACAAGCCTTCTACATCACTTTGAACGACTCAAGAGAGCGCT
 CAACAAGGATTTCCACAGAGCTTTCACAAATGTGCCTTTTCAAATAATGACTTCATTATCCTGGCAGTA
 TGGGGCATGCTGGCTGTAAGTGAATTACGTTACAGATTGCAAGAGAGAGAGGACGACCGTTCTCCCTC
 CCCACCCATACAAGTTATGGAAGCAAGAGAGAGAGCGCCGAGTGACAAACATTCTGGACCCTAGCTACCA
 CATTCTCCATTGAGAGAGAGGCTCTATGGCCGATTAACCCAGATTAAGGGCTCTTCCAGAAGGAGCAG
 CCAGCTGGAGAGAGAACGCTTTGCTTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200084 representing NM_016551
 Red=Cloning site Green=Tags(s)

MGFLQLLVAVLASEHRVAGAAEVFGNSSEGLIEFSVGKFRYFELNRPFPPEEAILHDISSNVTLIFQIH
 SQYQNTTVSFSPTLLSNSSETGTASGLVILRPEQSTCTWYLGTSIGIQPVQNMAILLSYSERDPVPGGCN
 LEFDLDIDPNIYLEYNFFETTIFKAPANLGYARGVDPDPPCADAGTDQDSRWRLQYDYVYQYFLPENDL
 TEEMLLKHLQRMVSVQVKASALKVVTLTANDKTSVSFSSLPQGVIYNVIVWDPFLNTSAAYIPAHTYACSE
 AGEGSCASLGRVSSKVFFTLFALLGFFICFFGHRFWKTELFIFGFIIMGFFFYILITRTPIKYDNLIL
 TAVTGSVGGMFLVAVWVRFGILSICMLCVGLVLGFLISSVTFFTPLGNLKFHDDGVFVWTFSCIAILIP
 VVFMGCLRILNILTCGVIGSYSVLAIDSYWSTLSYITLNLKRALNKDFHRAFNTVPFQTNDFIILAV
 WGMLAVSGITLQIRRRERGRPFPPHPYKLVKQERERRVTNILDPSYHIPPLRRLYGRLTQIKGLFQKEQ
 PAGERTPLLL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_016551

ORF Size: 1710 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_016551.3](#)

RefSeq Size: 4346 bp

RefSeq ORF: 1713 bp

Locus ID: 51768

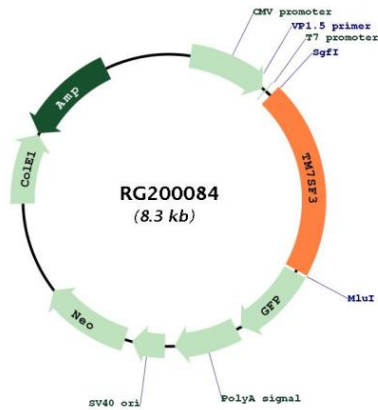
UniProt ID: [Q9NS93](#)

Cytogenetics: 12p11.23

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Involved in the inhibition of cytokine-induced death of pancreatic beta cells. Involved in the promotion of insulin secretion from pancreatic beta cells (PubMed:21853325). 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]

Product images:



Circular map for RG200084