

Product datasheet for **SC114208**

TM7SF3 (NM_016551) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TM7SF3 (NM_016551) Human Untagged Clone
Tag:	Tag Free
Symbol:	TM7SF3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114208 sequence for NM_016551 edited (data generated by NextGen Sequencing)

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ATGGGGTTCCTGCAGCTGCTGGTCGTAGCGGTGCTGGCATCCGAACACCGGGTGGCTGGT
GCAGCCGAGGCTCTTCGGGAATCCAGCGAGGGTCTTATTGAATTTCTGTGGGAAATTT
AGATACTTCGAGCTCAATAGGCCCTTTCCAGAGGAAGCTATTTTGCATGATATTTCAAGC
AATGTGACTTTTCTTATTTTCCAAATACACTCACAGTATCAGAATACAAGTGTTCCTTT
TCTCCGACTCTCCTTTCCAATTCCTCGGAAACAGGCACTGCCAGTGGACTGGTTTTCATC
CTTAGACCAGAGCAGAGTACATGCACTTGGTACTTGGGGACTTCAGGCATACAGCCTGTC
CAGAATATGGCTATCCTACTCTCCTACTCAGAAAGAGATCCTGTCCCTGGAGGCTGTAAT
TTGGAGTTCGATTAGATATTGATCCCAACATTTACTTGGAGTATAATTTCTTTGAAACG
ACTATCAAGTTTGGCCAGCAAACCTAGGCTATGCGAGAGGCGTAGATCCCCCACCATGT
GACGCTGGGACAGACCAGGACTCCAGGTGGAGGTTGCAGTATGATGTCTATCAGTATTTT
CTGCCTGAGAATGACCTCACTGAGGAGATGTTGCTGAAGCATCTGCAGAGGATGGTCAGT
GTGCCCCAGGTGAAGGCCAGTGTCTCAAGGTGGTTACCCTAACAGCTAATGATAAGACA
AGTGTTCCTTCTCCTCCCTCCTGGGACAAGGTGTCATATAAATGTCATTGTTTGGGAC
CCGTTTCTAAATACATCTGCTGCCTACATTCTGCTCACACATACGCTTGACAGCTTTGAG
GCAGGAGAGGGTAGTTGTGCTTCCCTAGGAAGAGTGTCTTCCAAAGTGTCTTCACTCTT
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TTCTTCATAGGCTTTATCATCATGGGATTCTTCTTTTATATACTGATTACAAGACTGACA
CCTATCAAGTATGATGTGAATCTGATTCTGACAGCTGTCACTGGAAGCGTCGGTGGAAATG
TTCTTGGTAGCTGTGTGGTGGCGATTGGAAATCCTCTCGATCTGCATGCTCTGTGTTGGA
CTAGTGTGGGGTTCCTCATCTCGTCAGTGACTTCTTTACTCCACTGGGAAACCTAAAG
ATTTTTCATGATGATGGTGTATTCTGGGTCATTTCTCTTGATAGCTATCCTCATTCCA
GTAGTTTTTCATGGGCTGCCTAAGAATACTGAACATACTGACTTGTGGAGTCATTGGCTCC
TATTCGGTGGTTTTAGCCATTGACAGTTACTGGTCCACAAGCCTTTCTACATCACTTTG
AACGTAATCAAGAGAGCGCTCAACAAGGATTTCCACAGAGCTTTCAAAATGTGCCTTTT
CAAATAATGACTTCATTATCCTGGCAGTATGGGCGATGCTGGCTGTAAGTGGAATTACG
TTACAGATTGGAAGAGAGAGAGGACGACCGTCTTCCCTCCCCACCCATACAAGTTATGG
AAGCAAGAGAGAGAGCGCCGAGTGACAAACATTCTGGACCCTAGCTACCACATTCCTCCA
TTGAGAGAGAGGCTCTATGGCCGATTAACCCAGATTAAGGGCTCTTCCAGAAGGAGCAG
CCAGCTGGAGAGAGAAGCCTTTGCTTCTGTAG
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Clone variation with respect to NM_016551.2
743 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016551 unedited

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GGGGTCANAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCCGGCGG
CTGCGGAGCTGGCAGGTGCGAAGCGTCTGCACCTGGCGGGCGATGGCGCCCGATGCGGGC
GCCCCGGGATAGCGTGGGCGAGGCTGCGGGGGCCCCGGCGCGCACGCCCGACCTCTCCCC
AGCCCTGGCGTGGGCCAGCCCGGCCAGGCAGCAATGGGGTTCTTGCAGCTGCTGGTCTG
TAGCGGTGCTGGCATCCGAACACCGGGTGGCTGGTGCAGCCGAGGTCTTCGGGAATTTCCA
GCGAGGGTCTTATTGAATTTTCTGTGGGAAATTTAGATACTTCGAGCTCAATAGGCCCT
TTCCAGAGGAAGCTATTTTGCATGATATTTCAAGCAATGTGACTTTTCTTATTTTCCAAA
TACACTCACAGTATCAGAATACAAGTGTTCCTTTTCTCCGACTCTCCTTTCCAATTCCT
CGGAAACAGGCACTGCCAGTGGACTGGTTTTCATCCTTAGACCAGAGCAGAGTACATGCA
CTTGTAATTTGGGACTTCAGGCATACAGCCTGTCCAGAATATGGCTATCCTACTCTCCT
ACTCAGAAAGAGATCCTGTCCCTGGAGGCTGTAATNTGGAGTTGATTTAGATATTGAT
CCCAACATTTACTTGGAGTATAATTTCTTTGAAACGACTATCAAGTTTGGCCAGCAAAC
CTAGGCTATGCGAGAGGCGTAGATCCCCCACCATGTGACGCTGGGACAGACCAGGACTNC
AGNTGGGAGGTTGCAGTATGATGTCTATCAGTATTTTCTGCCTGAGATGACCTCACTGAG
AGATGTTGCTGAGCATCTGCCNAGATGGTCAGTGTGCCCCAGTGAAAGCCATGCTCTCAA
GGTGGTTACCCTACAGCTAAGATAGAC
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016551 unedited TCTATGAACCGCGCCGCTTTCTANAGTCGAGTTTTTTTTTTTTTTTTTGCAGAAGAAC ATTTTTTAATTTTTTAATGTATCTATTTAATGGAATAAGTTGATCATAGATTTGTAAAC CAAAAGGTAATTTCTCAAGTATTTGAAATAAGGAAAAGCCTCCCTACCACCAACCTTTT GGTCATCTTTCTCATTCTCTTACAATCATCCTAATCCCCTAGTACACCCTTACCATATAT CAATAAGGGCACCATAATATTATGCAAAGAACAGATATATATGCCTGATCTCTTATTAGA CTTGCACCAGAGACTGTTGAACCACTCCAGGCATGAACTCCAAAGCTGAGGCACACTGAC CAAGCCCCTGNGCATCTACAGAAGCAAAGCGTTCTCTCTCCAGCTGGCTGCTCCTTCTG GAAGAGCCCTTTAATCTGGGTTAATCGGCCATAGAGCCTCTCTCATGGAGGAATGTGG CAGCTTAGGTCCACAATGTTTGTCACTCGGCGCTCTCTCTTGTCTCCTAACTTGATG GGGGGGGAGGGAAGAACGTCGTCTCTTTTGAATCTGGAACGTAATTTCACTTACA GCCACCATGCCCATACTGGCAGGATATTGACATATTTATTTCAAAAAGGCCACTTGTC AAACCTTGTTGGAATCCTTTCTCGCCCCCTTTCTTGAACCCCTCAAAATGACCTCCAA AAGGCCCTCGGGACCCACCCTGCAACGGCCTAAACACCCCCCAATACGGGCCCAACT GCCTACCCCGCCGATTTCCCCCTCTCTTCTAAGGACGCCCCACCAACAATCCGGA AATGGCCTACCCCTTTCCACAAAAGCGGCCCTCAATACACCCTTCTCTATAAAAACTT TCTGAGGTCCCCACGCCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_016551
Insert Size:	2500 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:	<u>NM_016551.1</u> , <u>NP_057635.1</u>
RefSeq Size:	2527 bp
RefSeq ORF:	1713 bp
Locus ID:	51768
UniProt ID:	<u>Q9NS93</u>
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]