

Product datasheet for **SC319632**

TM7SF1 (GPR137B) (NM_003272) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TM7SF1 (GPR137B) (NM_003272) Human Untagged Clone
Tag:	Tag Free
Symbol:	TM7SF1
Synonyms:	TM7SF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:	<p>>OriGene sequence for NM_003272.1</p> <pre> GCGGCTTGTTCCTTCCAGTCTCGGGGCTGCAGGCTGAGCGCGATGCGCGGAGACC CCCCGGGGGGCGGCGGCCGTGAGCCCCGATGAGGCCCGAGCGTCCCCGGCCGCGCGG CAGCGCCCCCGCCCGATGGAGACCCCGCCGTGGGACCCAGCCCGCAACGACTCGTGCC GCCCACGTGACCCGGCCGTGCCCCCTACGTGAAGCTTGGCCTCACCGTCGTACAC CGTGTTCACGCGCTGCTCTTCGTGTTTCATCTACGTGCAGCTCTGGCTGGTGTGCGTTA CCGCCACAAGCGGCTCAGCTACCAGAGCGTCTTCTCTTCTCTGCCTCTTCTGGGCTC CCTGCGGACCGTCTTCTCTCTTCTACTTCAAAGACTTCGTGGCGCCAATTGCTCAG CCCCTTGTCTTCTGGCTGCTCTACTGCTTCCCTGTGTGCCTGCAGTTTTTCACCCTCAC GCTGATGAACTTGTACTTCACGCAGGTGATTTTCAAAGCCAAGTCAAATATTCTCCAGA ATTACTCAAATACCGTTGCCCTCTACCTGGCCTCCCTCTTCATCAGCCTTGTTTTCT GTTGGTGAATTTAACCTGTGCTGTGCTGGTAAAGACGGGAAATGGGAGAGGAAGTTAT CGTCTCTGTGCGAGTGGCCTAATGACACGCTTTCGTGCTGTGTGCCGTCTCTCTC CATCTGTCTTACAAAATCTAAGATGTCCTTAGCCAACATTTACTTGGAGTCCAAGGG CTCCTCCGTGTGCAAGTACTGCCATCGGTGTCACCGTGATACTGCTTTACACCTCTCG GGCCTGTACAACTGTTTCATCCTGTCATTTTCTCAGAACAAGAGCGTCCATTCTTTGA TTATGACTGGTACAATGTATCAGACCAGGCAGATTTGAAGAATCAGCTGGGAGATGCTGG ATACGTATTATTTGGAGTGGTGTATTTGTTGGGAACCTTACCTACCACCTTAGTCGT TTATTTCTCCGAGTTAGAAATCCTACAAAGGACCTTACCAACCTGGAATGGTCCCCAG CCATGGATTGAGTCCCAGATCTTATTTCTTTGACAACCTCGAAGATATGACAGTATGA TGACCTTGCTGGAACATTGCCCTCAGGACTTCAGGGAGGTTTTGCTCCAGATTA TGATTGGGGACAACAACTAACAGCTTCTGGTGCACAAGCAGGAACCTTGAAGACTCAAC TTTGGATCCTGACAAACCAAGCCTTGGGTAGCATCAGTTAACAGTTTTATGGACGATTCC TCAGATGAAAAGCTTCAGAAAAGCATAGTGACAGCTGAATTTTTAGGGCACTTTTCTTA AGAAATAGAACTTGATTTTTATTTGTTACAGTTTTCCAATGGCCCATAGGAATAAGCAA TAATGTAGACTGATAAACCTTATTTTAGTACTAAAGAGGGAGCCTTGCTATTTGAGTGG GTATAATTTAACTTTTTAAAGAAAATCTGTACTTTTATAAAGATGATTTTGTATAACT TAAATAAATGCTAAAGTATACTAGGGTTTTTTTTTCTGAGAATGTTACTGCAATCAT GTTGTAGTTTGACAGACTTTTATGCATAATTCACCTTTAAAAATATAGAATATATGGTCT AATAGTAAAAA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_003272
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_003272.1 , NP_003263.1
RefSeq Size:	1998 bp
RefSeq ORF:	1200 bp
Locus ID:	7107
UniProt ID:	O60478
Cytogenetics:	1q42.3
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Lysosomal integral membrane protein that regulates the localization and activity of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids (PubMed:31036939). Interacts with Rag GTPases and increases the lysosomal localization and activity of Rag GTPases and thereby regulates mTORC1 translocation and activity in lysosome (PubMed:31036939). Involved in the regulation of lysosomal morphology and autophagy (PubMed:31036939).[UniProtKB/Swiss-Prot Function]