

Product datasheet for SC115915

TUSC3 (NM_006765) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUSC3 (NM_006765) Human Untagged Clone
Tag:	Tag Free
Symbol:	TUSC3
Synonyms:	D8S1992; M33; MagT2; MRT7; MRT22; N33; OST3A; SLC58A2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115915 sequence for NM_006765 edited (data generated by NextGen Sequencing)

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ATGGGGGCCCGGGCGCTCCTTCACGCCGTAGGCAAGCGGGCGCGCTGCGGTACCTG
CCCACCGGGAGCTTTCCCTTCTCCTGCTGCTGCTGCTGCTCATCCAGCTCGGGGA
GGACAGAAGAAAAAGGAGAATCTTTTAGCTGAAAAAGTAGAGCAGCTGATGGAATGGAGT
TCCAGACGCTCAATCTTCCGAATGAATGGTGATAAATCCGAAAAATTTATAAAGCACCA
CCTCGAACTATTCCATGATTGTTATGTTCACTGCTCTTCAGCCTCAGCGGCAGTGTCT
GTGTGCAGGCAAGCTAATGAAGAATATCAAATACTGGCGAACTCCTGGCGCTATTCATCT
GCTTTTTGTAACAAGCTTCTTCAGTATGGTGGACTATGATGAGGGGACAGACGTTTTT
CAGCAGCTCAACATGAACTCTGCTCCTACATTCATGCATTTTCTCCAAAAGGCAGACCT
AAGAGAGCTGATACTTTGACCTCCAAAGAATTGGATTTGCAGCTGAGCAACTAGCAAAG
TGGATTGCTGACAGAACGGATGTTTCATATTCGGGTTTTTCAGACCACCAACTACTCTGGT
ACCATTGCTTTGGCCCTGTTAGTGTGCTTGTGGAGTTTTGCTTTATTTGAGAAGGAAC
AACTTGGAGTTTCTATAACAAGACTGGTTGGGCCATGGTGTCTCTGTGTATAGCTTTT
GCTATGACTTCTGGCCAGATGTGGAACCATATCCGTGGACCTCCATATGCTCATAAGAAC
CCACACAATGGACAAGTGAGCTACATTCATGGGAGCAGCCAGGCTCAGTTTGTGGCAGAA
TCACACATTATTCTGGTACTGAATGCCGCTATCACCATGGGGATGGTTCTTCTAAATGAA
GCAGCAACTTCGAAAGGCGATGTTGGAAAAAGACGGATAATTTGCCTAGTGGGATTGGGC
CTGGTGGTCTTCTTCTCAGTTTTCTACTTTCAATATTTTCGTTCCAAGTACCACGGCTAT
CCTTATAGTGATCTGGACTTTGAGTGA

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Clone variation with respect to NM_006765.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006765 unedited TGTATACGACTCTATAGGGCGGCCGCGATTTCGGCACGAGGGTCTCCTCCTCTGCGTCCT CGGCCGCGGCCCGGGTCCCTCGCAAAGCCGCTGCCATCCCGGAGGGCCCAGCCAGCGGGC TCCCGGAGGCTGGCCGGGCAGGCGTGGTGC GCGGTAGGAGCTGGGCGCGCACGGCTACCG CGCGTGGAGGAGACACTGCCCTGCCGCGATGGGGGCCGGGGCGCTCCTTACGCCGTAG GCAAGCGGGCGGCGGCTGCCGTACCTGCCACCGGGAGCTTCCCTTCTCTCCTGCT GCTGCTCTGCATCCAGCTCGGGGGAGGACAGAAAGAAAAAGGAGAATCTTTTAGCTGA AAAAGTAGAGCAGCTGATGGAATGGAGTTCAGACGCTCAATCTCCGAATGAATGGTGA TAAATTCGAAAATTTATAAAGGCACCACCTCGAACTATTCCATGATTGTTATGTTAC TGCTCTTCAGCCTCAGCGGCAGTGTCTGTGTGCAGGCAAGCTAATGAAGAATATCAAAT ACTGGCGAACTCTGGCGCTATTCATCTGCTTTTTGTAACAAGCTCTTCTCAGTATGGT GGACTATGATGAGGGACAGACGTTNTTCAGCAGCTCAACATGAACTCTGCTCCTACATT CATGCATTTTCTCCAAAGGGCAGACCTAAGAGAGCTGATACTTTTTGACCTCCAAAGAA TGGNATTTGCAGCTGAGCCACTAGCANAGTGGNATTGCTGACAGAACGGATGTTCAATT CGGGGTTTCAAGACACCCCACTACTCTGGTACCATTGCTTTTNCCTGNTANTGGTCCCT GGTTGGAGGGTTGCTTTATTTGAGAAGGAACACCTTGAAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006765 unedited GGCAACTTTCAGGNCCAGGNATAGCACTGGGGAGGGGTCACAGGATGCCACCCGGGATC TGTTTCAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTT TTCATAATTACATTGTCATTTATTTCAATCCTGTGGCACACACTGAATATAACAGGCTTG AAAAACACTTTGATATTTCTTTGTAGATTACTAAATGCTACCATTGATTTCTGTAATT AAATTTACTAGGAAAACCCACAGTTTAAAAAAGTACACAAGAATAAGCTAGCTGATCAC AATGAAATGAATGAATCAAATAGTATAAAGTCAGGAACAGTTTATCTTCATGGTAAAC ATTCACTTTATGCAAATCCCACTTGCTTCATTTAATTAAGCTGAGGTTATAGNNNT TTTAAGTGCCATGGTCCAAATCACATCTTCTCACTCAAAGTCCAGATCACTATAAGGATA GCCGTGGTACTTGGAACGAAATATTGAAAGTAGAAAAGTGAAGAAGAAGACCACCGGCC CAATCCCACTAGGCAAATATCCGTCTTTTCCAACATCGCCTTTCGAAGTTGCTGCTTC ATTTAGAAGAACCATCCCATGGTGATAGCGGCATTGAGTACCAGAATAATGTGTGATTC TGCCACAACCTGAGCCTGGCTGCTCCATGAAGTAGCTCACTTGCCATTTGTTGGTTCTATG AGCTATTTTNNNCTCCGATATGTTCCACTCTGCCAAAGTCATAGCAAACATCCAGAGAC CATGGCCACCAGTCTGTATAGAGAACTCAGTTGTTCTCTCAATAAGCAACCTCACAGCGA ACTACAGGGCAGCATGTACAGATATTGGTGTCTGAAACCGATGAACTTCGCTGCA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006765
Insert Size:	1570 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_006765.2](#), [NP_006756.2](#)

RefSeq Size: 1613 bp

RefSeq ORF: 1047 bp

Locus ID: 7991

UniProt ID: [Q13454](#)

Cytogenetics: 8p22

Domains: OST3_OST6

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary: This gene encodes a protein that has been associated with several biological functions including cellular magnesium uptake, protein glycosylation and embryonic development. This protein localizes to the endoplasmic reticulum and acts as a component of the oligosaccharyl transferase complex which is responsible for N-linked protein glycosylation. This gene is a candidate tumor suppressor gene. Homozygous mutations in this gene are associated with autosomal recessive nonsyndromic mental retardation-7 and in the proliferation and invasiveness of several cancers including metastatic pancreatic cancer, ovarian cancer and glioblastoma multiform. [provided by RefSeq, Oct 2017]
Transcript Variant: This variant (1) represents the longer transcript, and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.