

Product datasheet for RC203082

TUSC3 (NM_178234) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUSC3 (NM_178234) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TUSC3
Synonyms:	D8S1992; M33; MagT2; MRT7; MRT22; N33; OST3A; SLC58A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203082 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGCCCGGGCGCTCCTTCACGCCGTAGGCAAGCGGGCGGCGCTGCGGTACCTGCCACCGGGA
GCTTCCCTTCTCTCTGCTGCTGCTGCTGCTGCATCCAGCTCGGGGAGGACAGAAGAAAAGGAGAA
TCTTTTAGCTGAAAAAGTAGAGCAGCTGATGGAATGGAGTTCCAGACGCTCAATCTCCGAATGAATGGT
GATAAATCCGAAAATTTATAAAGGCACCACCTCGAACTATTCCATGATTGTTATGTTCACTGCTCTTC
AGCCTCAGCGGCAGTGTCTGTGTGCAGGCAAGCTAATGAAGAATATCAAATACTGGCGAACTCCTGGCG
CTATTCATCTGCTTTTTGTAACAAGCTCTTCTCAGTATGGTGGACTATGATGAGGGGACAGACGTTTTT
CAGCAGCTCAACATGAACTCTGCTCCTACATTCATGCATTTTCTCCAAAAGGCAGACCTAAGAGAGCTG
ATACTTTTGACCTCCAAAGAATTGGATTGCGAGCTGAGCAACTAGCAAAGTGGATTGCTGACAGAACGGA
TGTTTCATATTCGGGTTTTAGACCACCAACTACTCTGGTACCATTGCTTTGGCCCTGTTAGTGTGCGCTT
GTTGGAGGTTGCTTTATTTGAGAAGGAACAATTGGAGTTCATCTATAACAAGACTGGTTGGCCATGG
TGTCTCTGTGATAGTCTTTGCTATGACTTCTGGCCAGATGTGGAACCATATCCGTGGACCTCCATATGC
TCATAAGAACCCACACAATGGACAAGTGAGCTACATTCATGGGAGCAGCCAGGCTCAGTTTGTGGCAGAA
TCACACATTATTCTGGTACTGAATGCCGCTATCACCATGGGGATGTTTCTCTAAATGAAGCAGCAACTT
CGAAAGCGATGTTGAAAAAGACGGATAATTTGCCTAGTGGGATTGGCCCTGGTGGTCTTCTTCTCAG
TTTTCTACTTTCAATATTTCTGTTCCAAGTACCACGGCTATCCTTATAGCTTTTTAATTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203082 protein sequence
Red=Cloning site Green=Tags(s)

MGARGAPSRRRQAGRRLRYLPTGSFPFLLLLLLLLCIQLGGGQKKKENLLAEKVEQLMEWSSRRSIFRMNG
 DKFRKF IKAPPRNYSMIVMFTALQPQRQCSVCRQANEEYQILANSWRYSSAFCKNLFFSMVDYDEGTDVF
 QQLNMNSAPTFMFHFPKGRPKRADTFDLQRIGFAAEQLAKWIADRTDVHIRVFRPPNYSGTIALALLVSL
 VGLLLYLRRNNLEFIYNK TGWAMVSLCIVFAMTSGQMWNHIRGPPYAHKNPHNGQVSYIHGSSQAQFVAE
 SHIILVLNAAITMGMVLLNEAATSKGDVGKRRIIICLVGLGLVVFVFFSFLLSIFRSKYHGYPSFLIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6434_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_178234

ORF Size: 1041 bp

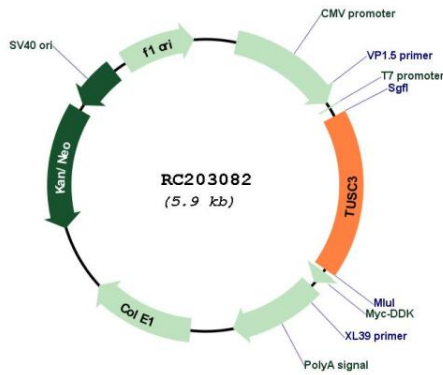
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

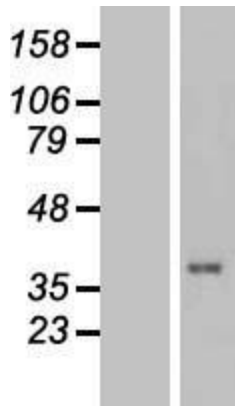
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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_178234.2
RefSeq Size:	3823 bp
RefSeq ORF:	1044 bp
Locus ID:	7991
UniProt ID:	Q13454
Cytogenetics:	8p22
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	39.6 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC203082



Western blot validation of overexpression lysate (Cat# [LY405986]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203082 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).