

Product datasheet for MR205219

Tusc3 (NM_030254) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tusc3 (NM_030254) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tusc3
Synonyms:	AU022242; BC003311; N33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205219 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGCCAGGGCCGCTCCTTCACGCCGAGACAGGCGGGCCGCGGTTGCGCTACCTGCCTACTGGTA
GCTTCCCTTCTCCTCTTGCTGCTGCTCTGCATCCAGCTCGGGGGCGGACAGAAGAAAAGGAGAA
CCTTTGGCTGAAAAGTGGAGCAGCTGATGGAATGGAGTTCCAGGCGCTCGATCTTCAGAATGAACGGC
GACAAGTCCGGAAGTTGTAAAAGCCCCACCTCGGACTACTCCATGATCGTCATGTTCACTGCTCTGC
AGCCTCAGCGGCAGTGTCTGTGTGCAGGCAGGCTAACGAAGAATATCAAATCCTGGCTAATTCCTGGCG
TTATTCATCTGCTTTTTGCAACAACTGTTTTTGAATGGTGGACTATGATGAAGGGACAGATGTTTTT
CAACAGCTCAACATGAACTCCGCTCCACATTCATGCATTTTCTTCAAAGGCAGACCCAAAGAGAGCTG
ATACTTTTGACCTTCAACGAATGGATTGCGAGCTGAGCAGCTAGCAAAATGGATTGCCGACAGGACGGA
TGTTTCATATTCGAGTTTTCCGGCCACCCAACTACTCAGGCACCATGCTTTGGCCCTGTTAGTGTCACTG
GTTGGTGGCTTGCTTTATCTAAGGAGGAACAACCTGGAGTTTATCTATAACAAGACTGGTTGGCCATGG
TATCTCTGTGTATAGTCTTTGCTATGACGTCTGGCCAGATGTGGAATCATATCCGTGGACCTCCATATGC
TCATAAGAACCCACACAATGGACAAGTGAAGTACATTCATGGAAGCAGCCAGGCTCAGTTTGTGGCAGAG
TCACACATCATTCTAGTACTGAATGCTGCTATCACCATGGGGATGTTTCTTAAATGAAGCAGCAACTT
CCAAAGGGATGTCGGGAAAAGACGCATCATTTGCCTCGTGGGATTGGGCTTGGTGGTCTTCTTCTCAG
TTTTCTCTTTCAATATTTCTGTTCAAAGTACCATGGCTATCCATATAGCTTTTTAATTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205219 protein sequence
 Red=Cloning site Green=Tags(s)

MSARAAPSRRRQAGRRLRYLPTGSFPFLLLLLLLLCIQLGGGQKKKENLLAEKVEQLMEWSSRRSIFRMNG
 DKFRKFVKAPPRNYSMIVMFTALQPQRQCSVCRQANEYQILANSWRYSSAFCKNLFFGMVDYDEGTDVF
 QQLNMNSAPTFMHFPSKGRPKRADTFDLQRIGFAAEQLAKWIADRTDVHIRVFRPPNYSGTIALALLVSL
 VGGLLYLRRNNLEFIYNKTDGAMVSLCIVFAMTSGQMWNHIRGPPYAHKNPHNGQVSYIHGSSQAQFVAE
 SHIILVLANAATMGMVLLNEAATSKGDVGKRRICLVGLGLVVFVFFSLLSIFRSKYHGYPYSFLIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_030254

ORF Size: 1044 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_030254.4](#)

RefSeq Size: 1527 bp

RefSeq ORF: 1044 bp

Locus ID: 80286

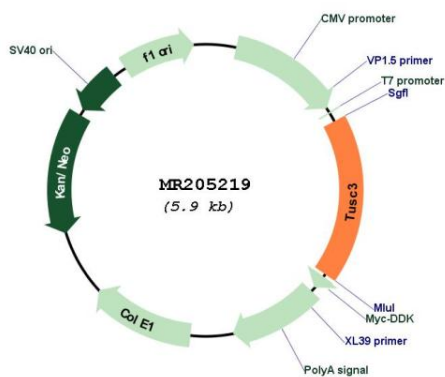
UniProt ID: [Q8BTV1](#)

Cytogenetics: 8 A4

MW: 39.5 kDa

Gene Summary: Acts as accessory component of the N-oligosaccharyl transferase (OST) complex which catalyzes the transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains. Involved in N-glycosylation of STT3B-dependent substrates. Specifically required for the glycosylation of a subset of acceptor sites that are near cysteine residues; in this function seems to act redundantly with MAGT1. In its oxidized form proposed to form transient mixed disulfides with a glycoprotein substrate to facilitate access of STT3B to the unmodified acceptor site. Has also oxidoreductase-independent functions in the STT3B-containing OST complex possibly involving substrate recognition.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205219