

Product datasheet for **MG205219**

Tusc3 (NM_030254) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tusc3 (NM_030254) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tusc3
Synonyms: AU022242; BC003311; N33
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205219 representing NM_030254
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGCCAGGGCCGCTCCTTCACGCCGAGACAGGCGGGCCGCGGTTGCGCTACCTGCCTACTGGTA
GCTTTCCTTCTCCTCTTGCTGCTGCTCTGCATCCAGCTCGGGGCGGACAGAAGAAAAGGAGAA
CCTTTTGGCTGAAAAGTGGAGCAGCTGATGGAATGGAGTTCAGGCGCTCGATCTTCAGAATGAACGGC
GACAAGTCCGGAAGTTGTAAAAGCCCCACCTCGGAATACTCCATGATCGTCATGTTCACTGCTCTGC
AGCCTCAGCGGCAGTGTCTGTGTGCAGGCAGGCTAACGAAGAATATCAAATCCTGGCTAATTCCTGGCG
TTATTCATCTGCTTTTTGCAACAACTGTTTTTGGAAATGGTGGACTATGATGAAGGGACAGATGTTTT
CAACAGCTCAACATGAACTCCGCTCCCACATTCATGCATTTTCTTCAAAGGCAGACCCAAAGAGAGCTG
ATACTTTTGACCTTCAACGAATTGGATTGCGAGCTGAGCAGCTAGCAAAATGGATTGCCGACAGGACGGA
TGTTTCATATTCGAGTTTTCCGGCCACCCAACTACTCAGGCACCATGCTTTGGCCCTGTTAGTGTCACTG
GTTGGTGGCTTGCTTTATCTAAGGAGGAACAACCTGGAGTTTATCTATAACAAGACTGGTTGGCCATGG
TATCTCTGTGTATAGTCTTTGCTATGACGTCTGGCCAGATGTGGAATCATATCCGTGGACCTCCATATGC
TCATAAGAACCCACACAATGGACAAGTGAAGTACATTCATGGAAGCAGCCAGGCTCAGTTTGTGGCAGAG
TCACACATCATTCTAGTACTGAATGCTGCTATCACCATGGGGATGTTTCTTAAATGAAGCAGCAACTT
CCAAAGGGATGTCGGGAAAAGACGCATCATTTGCCTCGTGGGATTGGGCTTGGTGGTCTTCTTCTCAG
TTTTCTCCTTTCAATATTTCTGTTCAAAGTACCATGGCTATCCATATAGCTTTTTAATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205219 representing NM_030254
 Red=Cloning site Green=Tags(s)

MSARAAPSRRRQAGRRLRYLPTGSFPFLLLLLLLLCIQLGGGQKKKENLLAEKVEQLMEWSSRRSIFRMNG
 DKFRKFVKAPPRNYSMIVMFTALQPQRQCSVCRQANEYQILANSWRYSSAFCKNLFFGMVDYDEGTDVF
 QQLNMNSAPTFFMHFPSKGRPKRADTFDLQRIGFAAEQLAKWIADRTDVHIRVFRPPNYSGTIALALLVSL
 VGGLLYLRRNNLEFIYNKTGWAMVSLCIVFAMTSGQMWNHIRPPYAHKNPHNGQVSYIHGSSQAQFVAE
 SHIILVLNAAITMGMVLLNEAATSKGDVGKRRIIICLVGLGLVVFVFFSFLLSIFRSKYHGYPYSFLIK

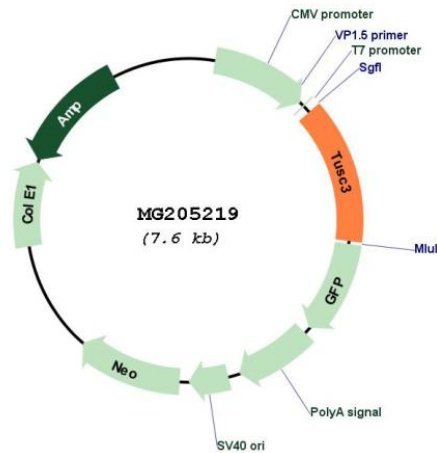
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_030254

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_030254.4
RefSeq Size:	1527 bp
RefSeq ORF:	1044 bp
Locus ID:	80286
UniProt ID:	Q8BTV1
Cytogenetics:	8 A4
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]