

Product datasheet for **MC227298**

Tuft1 (NM_001293728) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tuft1 (NM_001293728) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tuft1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227298 representing NM_001293728
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAACGGGACGCGGAACCTGGTGTACCTGGTGGACGTGCACCCGGAGAGCCAGACCCGGCGGGCAGGA
AGACCTATGCCATGATGCCTGGCCACTCCTCAGGTCATTCTCTGGCTTCAGAACTGGTGGAGTCCCATGA
TGGCCATGAAGAGATCATTAAAGTTTACTTGAAGGGAGGTCTGGGACAAAGATGACCCATGAGAAGAAC
ATCGACCAGCTGAAGAGTGAGGTCCAGTACATCCAGGAGGCCAGAACTGCCTGCAGAAGCTCCGGGAGG
ATATAAGTAGCAAGCTTGACAGGAGTCCAGGAGACCTCTGCGTCAGCAGGAGATACAGGTGGTACTAGA
AAAGCCAAATGGCTTTAGTCAGAGTCCCATGACTCTCTACAGTAGCCACCTGAGGTGGACCCTAGCATG
AGTGAAGATGTTGAGAGCTTGAAGAAGACTGTGCAGGAGTTGCTTGCAAGCTGCGGGAGGCTGAGCGGC
GACACCAGTCAGACCGTGTGGCCTTTGAGGTCACACTCAGCCGTTATCAGCGAGAAGCAGAACAGAGTAA
TGTGGCCCTTCAGAGAGAGGAGGACAGAGTGGAGCAGAAAGCGGCAGAAATCGAGGAGCTACAGAGGCGC
TTGCTGGGGATGGAGGCGGAGCATCAGGCCTTACTGGTAAAAGTCAGGGAAGGAGAGATGGCCCTAGAAG
AGCTTCGGATCAAGAACGCTGACTGTCAAACAGAAAGAGAAAAGTCTGCTGCTCTAGAAAAGGAAGTGGC
TGGGTTTCGGGAGAAGATCCACCACTTGGATGACATGCTGAAGAGCCAGCAGCGGAAAGTTCGGCAGATG
ATAGAGCAGCTCCAGAATTCAAAAGCTGTGATCCAGTCAAAGGATGCCACCATTCAAGAGCTCAAGGAGA
AAATTGCCTATCTGGAGGCTGAGAACTTAGAGATGCACGACCGCATGGAGCATCTAATAGAGAAGCAGGT
CAGCCACGGAACTTCAGCACACAGGCCGTGCCAAGACAGAACTGGGCAAGTGTGAGGATATCGAAG
CCCCCAGCCCCAAGCCTATGCCTCTATCCGGGTGGTGGAAAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001293728
Insert Size: 1098 bp



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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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001293728.1, NP_001280657.1</u>
RefSeq Size:	2561 bp
RefSeq ORF:	1098 bp
Locus ID:	22156
Cytogenetics:	3 F2.1
Gene Summary:	<p>Tuftelin is an acidic protein that is thought to play a role in dental enamel mineralization and is implicated in caries susceptibility. It is also thought to be involved with adaptation to hypoxia, mesenchymal stem cell function, and neurotrophin nerve growth factor mediated neuronal differentiation. [provided by RefSeq, Aug 2014]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>