

Product datasheet for **SC113182**

Tuftelin 1 (TUFT1) (NM_020127) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tuftelin 1 (TUFT1) (NM_020127) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tuftelin 1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020127, the custom clone sequence may differ by one or more nucleotides

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ATGAACGGGACGCGGAACCTGGTGTACCCTGGTGGACGTGCACCCAGAGGACCAGGCGGCGGCAGCGTGG
ACATTCTCAGGCTGACTCTCCAGGGTGAAGTACAGGAGATGAACCTTGAACACATAGCCCAGAAGGCGGG
CAGGAAGACCTATGCCATGGTGTCCAGCCACTCAGCTGGTCATTCTCTGGCTTCAGAAGCTGGTGGAGTCC
CATGATGGACATGAGGAGATCATTAAAGGTGACTTGAAGGGGAGGTCTGGAGACAAGATGATTCACGAGA
AGAATATTAACCAGCTGAAGAGTGAGGTCCAGTACATCCAGGAGGCCAGGAAGCTGCCTACAGAAGCTCCG
GGAGGATATAAGTAGCAAGCTTTAGTCAGAGTCCCACAGCCCTGTACAGCAGCCACCTGAGGTGGACACCT
GTATAAATGAGGATGTTGAGAGCTTGAGGAAGACGGTGCAGGACTTGCTGGCCAAGCTTCAGGAGGCCAA
GCGGCAACACCAGTCAGACTGTGTGGCTTTTGGAGTCCACTCAGCCGGTACCAGAGGGAAGCAGAACAA
AGTAATGTGGCCCTTCAGAGAGAGGAGGACAGAGTGGAGCAGAAAAGAGGCAGAAGTCGGAGAGCTGCAGA
GGCGCTTGCTAGGGATGGAGACGGAGCATCAGGCCTTACTGGCGAAAAGTGGGGAAGGGGAGGTGGCCCT
AGAGGAACTTCGGAGCAACAATGCTGACTGCCAAGCAGAACGAGAAAAGGCTGCTACCCTGGAAAAGGAA
GTGGCCGGGTTGCGGGAGAAGATCCACCACTTGGATGACATGCTCAAGAGCCAGCAGCGGAAAAGTCCGGC
AAATGATAGAGCAGCTCCAGAATTCAAAAGCTGTGATCCAGTCAAAGGACGCCACCATCCAGGAGCTCAA
GGAGAAAATCGCCTATCTGGAGGCAGAGAAATTTAGAGATGCATGACCGGATGGAACACCTGATAGAAAA
CAAATCAGTCATGGCAACTTCAGCACCCAGGCCCGGGCCAAGACAGAGAACCCGGGCAGTATTAGGATAT
CCAAGCCGCTAGCCCGAAGCCCATGCCTGTCATCCGAGTGGTGGAAACCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020127 unedited
TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTGGCGTGTGTGCTGCGACCC
CGAGGGAAGATGAACGGGACGCGGAACCTGGTGTACCCTGGTGGACGTGCACCCAGAGGAC
CAGGCGGCGGGCGGCAGGAAGACCTATGCCATGGTGTCCAGCCACTCAGCTGGTCATTCT
CTGGCTTCAGAACTGGTGGAGTCCCATGATGGACATGAGGAGATCATTAAAGGTGACTTG
AAGGGGAGGTCTGGAGACAAGATGATTCACGAGAAGAATTAACCAGCTGAAGATGAG
GTCCAGTACATCCAGGAGGCCAGGAACGCCTACAGAAGCTCCGGGAGGATATAAGTAGC
AAGCTTGACAGGAACCTAGGAGATTCTCTCCATCGACAGGAGATACAGGTGGTGTAGAA
AAGCCAAATGGCTTTAGTCAGAGTCCCACAGCCCTGTACAGCAGCCACCTGAGGTGGAC
ACCTGTATAAATGAGGATGTTGAGAGCTTGAGGAAGACGGTGCAGGACTTGCTGGCCAAG
CTTCAGGAGGCCAAGCGGCAACACCAGTCAGACTGTGTGGCTTTTGAGGTCACACTCAGC
CCGTACCAGAGGGAAGCAGAACATAGTAATGTGGCCCTTCAGAGAGAGGATGACAGAGTG
GAGCAGATAGATGCATAAGTCGGAGAGCTGCAGAGGCGCTTGCTAGGNATGGAGACGGAG
CATCAGGCCCTACTGGCGAAAGTGAGGGAAGGGGANGGTGCCCTANAGAAAACCTCGGAGC
ACATGCTGACTGCCAAGCAGAACGAGAAAAGCTGCTACCTGNAAAAGAGTGGCCCGGTGC
GGGAAAAAATCACACTIONGGTGACTGCTCAGAGCACAGCGAAAAGTCGCAATGAAGACTC
CAATCAAGCTGGATCAGCAAGACGCACATCAGACTCAGGAAATGCTTCTGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020127 unedited
NNTTTTTACTNTGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTCC
AGGAGTCAAAGACCACATTAATAAATTTAAATTCGCCATACAAAGAATATGCCACA
GACAACAATATCAGAAAGGGAAGAAACATGGATATCACCTGCTCTGACCCCTCATTTTA
CAATGAGGGAACCTCCCTGAAATCCCAGAGCATTGTTATGGACAAAGCCAGAATGTGAGC
CCAGTCTTGAGACACAGAAACACACAGACTTAAGGATTCTGGCTGCGTGAGCCACATAGA
CCGTAACACTTAATCCACATTTGTTTTGAATTTTTCTGATTCTATAGTACCATCTCT
GATGCCTATCTACTTCTCAAGGCTGTAGGAAGAGCCCTAAAGAAAAACCCATGGGCCGG
GCACAGTAGTCAAGCCTATAATCCTAGCACTTTGGGAAGCCGAGGTGGTGGATCACCT
GAGGTCAGGAATTCGAGACCAGCCTAGCCAGTATGGTGAACCCCATCTCTACTAAAAAT
ACAAAAATCAGCCAGGCGTGGTGGCACACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGC
AGAAGAATCGCTTAAATCCGGGAGGCANAGGTTGCAGTGAAGTGAATCGCGCCACTGCA
CTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAGANAANAAAAAACATTAAAAAAA
GAAACCCTGATGACCTGCAGGTCATTCANAGCCAGGATAAAGACCAATTATGGAGCAGG
GGGTTCAAAGGGCTANTGAAGAACTCATCTGGGTCCCAGAAAGATCCTGATTGCCCTTTT
TTTCCAACAACATATACTCTGACCCAAACCTCAGGAAAGTAACTAACTTCCCTAACTG
CAAACCAGTTTGAAGGGAAGAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_020127

Insert Size:

3000 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:	<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_020127.1, NP_064512.1</u>
RefSeq Size:	3125 bp
RefSeq ORF:	1173 bp
Locus ID:	7286
UniProt ID:	<u>Q9NNX1</u>
Cytogenetics:	1q21.3
Protein Families:	Secreted Protein
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 (1) encodes the longer protein isoform.</p>