

Product datasheet for SC122219

GDF7 (NM_182828) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDF7 (NM_182828) Human Untagged Clone
Tag:	Tag Free
Symbol:	GDF7
Synonyms:	BMP12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_182828, the custom clone sequence may differ by one or more nucleotides

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ATGGACCTGAGCGCCGCCCGCGCTGTGCCTTTGGCTGCTGAGCGCCTGCCGCCCGCGACGGGCTGG
AAGCGGCCCGCTGCTGCGAGCGCGGGGGCTGGGCCGGTCCGGAGCCCAGGGGGCGGGCGGGCGCGG
CGCGCGGGGGCGGACTCTTGCCAGGCTGCGGGCGCCGCGGCTGTCCCGCCGCCCGGTTCCCGGGCC
CGCGCCGCGCGCCGCGCGGGCTCCGGCTTCAGGAACGGCTCGGTGGTGCCGACCACTTCATGATGT
CGCTTTACCGGAGCTGGCCGGGAGGGCTCCGGCCGGGGCAGCCGCTGTCTCCGCTCGGGCCATGGTCC
CGCGGACACGATACCGGCTTCACAGACCAGGCGACCCAAGACGAATCGGCAGCCGAAACAGGCCAGAGC
TTCCTGTTGACGTGTCCAGCCTTAACGACGCAGACGAGGTGGTGGTGCCGAGCTGCGCGTGTGCGCC
GGGATCTCCAGAGTCGGGCCAGGCAGCTGGACTTCTCCGCCGTTGCTGCTGTGTCACGTGCCCGGG
CGCCGCCCGAGCGCCACGCTGTACTCGCGGGCAGCTGAGCCCTAGTCGGTCAGCGTGGGAGGCG
TTCGACGTGGCGGACGCCATGAGGCGCCACCGTCGTGAACCGCGCCCCCGCGGTTCTGCCTTTGC
TGCGCGCAGTGGCAGGCCCGGTGCCGAGCCGTTGGCACTGCGGCGGCTGGGCTTCGGCTGGCCGGGCGG
AGGGGGCTCTGCGGCAGAGGAGCGCGGGTGTAGTCTCTCTCCGACGCAGAGGAAAGAGAGCTTA
TTCCGGGAGATCCGCGCCAGGCCCGCGCTCGGGCCGCTCTGGCCTCAGAGCCGCTGCCGACCCAG
GAACCGGCACCGCTCGCAAGGCACTATTGGCGGCCGAGACGGAGGAGGACGGCGTTGGCCGGGAC
GCGGACAGCGCAGGGCAGCGCGGGGGCGGGCCGGGGCCAGGGCGCAGGGCCGAGCCGCTGCAGC
CGCAAGCCGTTGCACGTGGACTTCAAGGAGCTCGGCTGGGACGACTGGATCATCGCGCCGCTGGACTACG
AGGCGTACCCTGCGAGGGCCTTTGCGACTTCCCTTTGCGTTGCGACCTCGAGCCACCAACCATGCCAT
CATTGAGCGCTGCTCAACTCCATGGCACCAGACGCGGCCCGGCTCCTGCTGTGTGCCAGCGCCCTC
AGCCCCATCAGCATCCTTACATCGACGCCCAACAACGTTGTCTACAAGCAATACGAGGACATGGTGG
TGGAGGCTCGGCTGCAGGTAG

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_182828 unedited</p> <p>TAGCGTTCNTTTTTGTAAATACGACTTACTATAGGGGCGGCCGCGTATTCGGCACGAGGCA CACTTTCCCCATTATTAACACTATGTTCAAAGGCGCCGGGGGACTTCCCGGAGCCAC GGAGCCCGCGCCGCCCGCCCGCCCGCCACGGAGCCATGGACCTGAGCGCCGCGCCG CGCTGTGCCTTTGGCTGCTGAGCGCCTGCCGCCCGCGACGGGTGGAAGCGCCGCGC GGGCGGCGCGCGCGGGGCTGGGCCGGTCCGGAGCCCAGGGGGCGCGGGCGCGCGCG CGGTGGTTTTCTGGGACCTCCCTTCCTTCTGCGGCTCGGCGGTGTTGTTGGGGTCTCTCA ACTTGGGTTCGCGTCTCTTAGGCGCCTCGTTTGTGGTTCGCATCTGGATCTTGTC GTCTGTGCGTTTCATAGTTTCTGTTTCTGCTGCTTGCAGATGTGGGTGTTTTTGCCTT TCTTCCGTGTTTCTTTTTTCTGTCTGTGTCGCTGTTCTGTATACGTTGCTGTTGT TGATCCTCGTGTATAATTTGCTAGTTGCCGCGCTGAGTCTTTTCGCCGAAGTACGAC GTCATGAGTAGTTGAGCGGTCTTACTGGTCGTTGCGAGGTGTTGATTCGTTCTATGA GCGTTCGCTATTGTTAACGTGGCCGATATGGTCTGTTCCAATGGTCTTTTTGTGACATG TGTGGTGGCCAGATCCGTTTCTCTGTTTCTGACATCTCTTAGATGCGCTCTCTCGTGC TGTTAATGTATGTCTCTCGACTGGTGTGTTTTATCGTCTCGCTTCGGTTGTAATTCG TAGTTGGGGTGTGGGTAGTATTATGTTTGTGTCCACCTGATTACT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_182828 unedited</p> <p>GAAAGGACGCTCTGGCCTGTTTCGGCTGCCGATTCTGTTGGGTGCGCTGGTCTGTGAAG CCGGTGATCGTGTCCGCGGACCATGGCCCGAGGCGGAGACAGCGGCTGCCCGGCCGGA GCCCTCCCGCCAGGCTCCGGTAAAGCGACATCATGAAGTGGTGGCGCACACCGAGCCG TTCTGAAGCCGAGCCCGCGGCGCGGCGCGCGCGCGCCCGGGAACCGCGCGGCC GGGACAACCCGCGCGCCCGCAGCCTGGCAAGAAGTCCGCCCGCGCCCGCCGCCCGC CGCCCGCCCGCGCGCCCTGGGCTCCGGACCGCCAAACCCCGCGGTCGAAGCACC GCGGCCGCTTCCAGCCGTCGCGGGGGCGGAGGCGCTCAGCAGCCAAAGGCACAGCGCG GCGGGCGCGCTCAGGTCCATGGGCTCCGTTGGCCCGCGGGCGGGCGCGGGTCCGT GGCTCCGGGAAGTCCCCCGCGCCTTTGAACATAGTGTAAATAATGGGGGAAGTGTG CTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGATTACAAAATTCTGACGGTTCAC TAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCCTACCGCCATTTGCGTCAA CGGGCGGGGTTATTACGACATTTTGAAAGTCCCGTTGATTTTGTGCCAAAACAACCTCC ATTGACGTCATGGGTGGAGACTGGGAATCCCCTGAATAAA</p>
Restriction Sites:	Please inquire
ACCN:	NM_182828
Insert Size:	2800 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:	NM_182828.2 , NP_878248.2
RefSeq Size:	1994 bp
RefSeq ORF:	1353 bp
Locus ID:	151449
UniProt ID:	Q7Z4P5
Cytogenetics:	2p24.1
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway
Protein Pathways:	TGF-beta signaling pathway
Gene Summary:	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein may play a role in the differentiation of tendon cells and spinal cord interneurons. A mutation in this gene may be associated with increased risk for Barrett's esophagus and esophageal adenocarcinoma. [provided by RefSeq, Sep 2016]