

Product datasheet for **SC122278**

GDF10 (BC028237) Human Untagged Clone

Product data:

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|---------------------------|----------------------------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | GDF10 (BC028237) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | GDF10 |
| Synonyms: | BMP-3b; BMP3B; bone morphogenetic protein 3B; growth differentiation factor 10; OTTHUMP00000019534 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF:

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>OriGene sequence for BC028237 edited
GGGCCAGGGACGACCCTGTCAGCTGCAGCCCCAGAGGTCCGGGGCGCGCAGCCGGGTCCC
CTCGAGGGCGCAGCCGGCCGCCCGCCCCCGCCCTCGAAGCAGCCGGGCCGGCGCGCAG
TGGGCTACAACTTTTCGACGCGGAGTCCGCCAAGGCAGCGCGCCGACTCGGGCTCGGCT
CGGCTCTGCGCTGCTCCGGACGGCTGTGACCGCTGGCCGGGGGCTCGGGCCACCGGTACC
CACGGACCGCGCGCCCGGGTGCCTGCTCCGCTAAGCCCCCGCCCCGCGGGACCTCGGT
ATCCAGCGCCCTGCTGCCCGGGCTCTCCCGCGCGCCCTACTGCCGCGAGGTCAGTCCGC
AGCCTCCGGTGCGCCAGCGCTCGCCTTCTCCTCCTGGACTTCGACCCTTGCCGCCCTC
ACCACGCCATGGCCCTGGCGCCCCACCAGCGCGCCTGTGGCAGGCCAAGGACATCTCCC
CCATCGTCAAGGCGGCCCGGGATGGCGAGCTGCTCCTCTCCGCCAGCTGGATTCTG
AGGAGAGGGACCCGGGGTGCCCGGCCAGCCCTATGCGCCCTACATCCTAGTCTATG
CCAACGATCTGGCCATCTCGGAGCCCAACAGCGTGGCAGTGACGCTGCAGAGATACGACC
CCTTCCCTGCCGAGACCCCGAGCCCGCGCAGCCCCAACAACTCAGCGGACCCCGCG
TGCGCCGAGCCGCGCAGGCCACTGGGCCCTCCAGGACAACGAGCTGCCGGGGCTGGATG
AGAGGCCCGCGCGCCACGCACAGCACTTCCACAAGCACCAGCTGTGGCCAGCCCT
TCCGGGGCTGAAACCCCGGCCAGGGCGCAAGACCGCAGGAAGAAGGGCCAGGAGGTGT
TCATGGCCGCTCGCAGGTGCTGGACTTTGACGAGAAGACGATGCAGAAAACCCGGAGGA
AGCAGTGGGATGAGCCGAGGGTGTGCTCCCGGAGGTACCTGAAGGTGGACTTCGAGACA
TCGGCTGGAATGAATGGAATAATCTACCAGAACTTTTGTAGTGCCTACTACTGCGCGGGAG
CATGTGAGTTCCCATGCCTAAGATCGTTCGTCCATCCAACCATGCCACCATCCAGAGCA
TTGTGAGGGTGTGGGCATCATCCCTGGCATCCAGAGCCCTGCTGTGTTCCCGATAAGA
TGAACCTCCTTGGGGTCTCTTCTGGATGAGAATCGGAATGTGGTCTGAAGGTGTACC
CCAACATGTCCGTGGACACCTGTCCCTGCCGGTGGAGCCACTCCAGGGTGGAAAGAAGCC
ACGCCCAGCAGAGCTGCCTTCTCGGAGCCTTCTGCAACCAGGACTTGTGGTGCAGCTGCA
GACACAGAGCACAGCTCATGGGCAACATCACTGGGGCCAGAGAGAGCTGTCCGCCAGTG
CATCATTAGGGGGTCTTTCATTGCTAGTACTAGCCCTTAAATGCCAGCCTGAGTACCT
GAAGGAATCTGGGAATTTGCCCTGGCCTGAAAGTGGCCCATATTCATACCCACTGTTCT
GAAGGCTTGAACAACACATATCCACAACATTGGCTTGATGTGATCATCATCTCATAAC
TGAGCAAGAAGACTATGCAAATCTTAGGGCGCTCGCTCCCTGCACACGGAAGAAGTCTG
TTTAAATGCTCAGTTCAGAACACTTTGGGCCACATAGTGATTTTGGAAAACAGGATAATC
GTGGTGTAAATGAGTGTTCCTTCAAAGTCCACTGCAGAGCTTTTATCCATATGGTATG
CACATGTAGCCAATATTGGTTTCTTTTCTTAATATATATATTTTATTTTAAAACAACAA
AAAGGGAGGGCATTGACACCATTCCCCACAGAGATAGTCATGCTGAGTGTGGGTTGTTTA
AACATGCATATTGAAATAACACATATAGTAACGTGGGAATACTAAAAATAACCAAGATT
TTATATTTTGTAAATTACTTTCTATACTGTAGATTGTGTATGTTATGTTTATG
GAAAGCTAATAAATTAAGGTACAGTGGTATCTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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| 5' Read Nucleotide Sequence: | >OriGene 5' read for BC028237 unedited GCAGTTCAGCATTTTGTATACGACTTACTATAGGCGGCCGCGCATTCCCGGGTGGGCCA GGGACGACCCTGTGAGCTGCAGCCCCAGAGGTCCGGGGCGCGCAGCCGGTCCCCTCGAG GGCGCAGCCGGCCGCCCGCCCCGCCCTCGAAGCAGCCGGGCGGGCGCGCAGTGGGCT ACAAACTTTCGCAGCGCAGTCCGCCAAGGCAGCGCGCGACTCGGGCTCGGCTCGGCTC TGCCTGTCTCCGGACGGCTGTGACCGCTGGCCGGGGCTCGGGCCACCGTACCCACGGA CCGCGCGCCCGGGTGCCTGCTCCGCTAAGCCCCTCGCCCGCGCGGACCTCGGTATCCAG CGCCTGCTGCCCGGGCTCTCCCGCGCGCCCTACTGCCGCGAGGTCAGTCCGCAGCCTC CGGTGCGCCAGCGCTCGCCTTCTCCTCTGACTTCGACCCCTTTCGCCGCCCTACCCAG CCATGGCCCTGGCGCCCCACCGCGCGGCTGTGGCAGGCCAAGGACATCTCCCCATCG TCAAGGCGGCCCGCGGGATGGCGAGCTGCTCCTCTCGCCAGCTGGATTCTGAGGAGA GGGACCCGNGGTGCCCGGCCAGCCCTATGCGCCCTACATCCTAGTCTATGCCAACG ATCTGGCCATCTCGGAGCCCAACAGCGTGGCAGTACGCTGCAGAGATAACAACCCCTTCC CTGCCGGAGACCCGAGCCGCGCGCAGCCTCCAACAACAGCGGACCCCGCGTGCGCC GAGCCGCGCAGGCCACTGGGCCCTCCAGGACAACGAGCTGCGGGGCTGATGAAAAGC CCCCGCGCGCCCGCCAGAAGTTTACAAGCCAGCTGGGGCCAACCCCTTCGGGGG TGGAAACCCGGG |
| Restriction Sites: | Please inquire |
| ACCN: | BC028237 |
| Insert Size: | 2175 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: | BC028237.1 , AAH28237.1 |
| RefSeq Size: | 2175 bp |
| Locus ID: | 2662 |
| Cytogenetics: | 10q11.22 |
| Protein Families: | Druggable Genome, Secreted Protein |

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 preprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This promotes neural repair after stroke. Additionally, this protein may act as a tumor suppressor and reduced expression of this gene is associated with oral cancer. [provided by RefSeq, Jul 2016]