

Product datasheet for **MR207626**

Gdf10 (NM_145741) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdf10 (NM_145741) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gdf10
Synonyms:	Bmp3; Bmp3b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207626 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCCAGGTCTGCTCGGATCAGCTTGGGGTCCCAGCTGCTGCCATGGTGCCGCTGCTCCTGCTGC
 TCGGGGGCGCAGGCTGCGGCCACAGGGGCCCTCATGGTCTCATTGCCCTCGGCAGCTGCCGGTCTGCA
 GGGGGACAGGGACTCCCAGCAGTCACCCGGGACGCAGCAGCCGCTCTGGGCCAGGCGCCAGGACATG
 GTCGCTATCCACATGCTCAGGCTCTATGAGAAGTACAACCGAAGAGGTGCTCCACCGGGAGGAGGCAACA
 CCGTCCGAAGCTTCCGTGCCCGGCTGAAATGATCGACAAAAGCCTGTGTATTTCTTCAACTTGACTTC
 CATGCAAGACTCAGAAATGATCCTCACAGCCGCTTCCACTTCTACTCAGAACCTCCACGGTGGCCCGG
 GCTCGTGAGGTATTCTGCAAGCCCCGAGCTAAGAACGCATCCTGCCGCCTCTGACCCAGGGTGCCTG
 CACGCTTGACCTAATCTCCGCAGTCTTCCAGAACCCGCCACTCAGGGGCTGCTCCGCGGGGCCAT
 GGCCTGACGCCTCCACCAGTGGCCTGTGGCAGGCCAAGGACATCTCCTCAATCATCAAGCTGCCGA
 AGGGATGGAGAGCTGTTCTCTGCTCAGCTGGATACTGGGGAGAAGGACCCCGGAGTGCCACGGCCCA
 GTTCCACATGCCCTATATCCTTGTCTACGCCAATGACCTGGCCATCTCCGAACCAACAGTGTAGCAGT
 GTCGCTACAGAGATACGACCCATTTCCAGCTGGAGACTTTGAGCCTGGAGCAGCCCCAACAGCTCAGCT
 GATCCCCGCGTGCAGGGCGGCTCAGGTGTCAAACCCCTGCAAGACAATGAATGCCGGGGTGGATG
 AAAGACCAGCGCTGCCCTGCATGCCAGAAATTTCCACAAGCAGCAGTTCCTGGTCCAGTCTTTCCGGGC
 ACTGAAACCCCGCAGGGGGCGAAAGACCGCAAGAAGAAGGACCAGGACACATTCACCGCCGCTCCTCT
 CAGGTGCTGGACTTTGACGAGAAGACGATGCAGAAAGCCAGGAGCGGCAGTGGGATGAGCCCCGGGCT
 GCTCCAGGAGTACCTGAAGGTGATTTTGCAGACATCGGGTGGAAATGAATGGATCATCTCTCCAAATC
 CTTTGACGCCTACTACTGTGCTGGGCCTGCGAGTTCCCATGCCCAAGATTGTCGCGCCATCCAACCAT
 GCCACCATCCAGAGCATCGTCAGAGCTGTGGGCATTGTCCTGGCATCCCAGAGCCATGCTGTGTTCCAG
 ACAAGATGAACCTCCCTGGAGTCTTTTCTGGATGAAAATCGGAATGCGGTTCTGAAGGTGTACCCCAA
 TATGTCCGTAGAGACCTGTGCCTGTCGG

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207626 protein sequence
 Red=Cloning site Green=Tags(s)

MAPGPARISLGSQLLPMVPLLLLLRGAGCGHRGPSWSSLPSAAAGLQGDSDSQSPGDAAAALGPGAQDM
 VAIHMLRLYEKYNRRGAPPGGGNTVRSFRARLEMIDQKPVYFFNL TSMQDSEMIL TAAFHFYSEPPRWR
 AREVFCKPRAKNASCRLLTPGLPARLHLIFRSLSQNTATQGLLRGAMALTPPPRGLWQAKDISSIIKAAR
 RDGELLLSAQLDTGEKDPGVPRPSSHMPYILVYANDLAISEPNVAVSLQRYDFPAGDFEPGAAPNSSA
 DPRVRRAAQVSKPLQDNELPGLDERPAPALHAQNFHKHEFWSSPFRALKPRTGRKDRKKKQDFTFAASS
 QVLDFFEKTMQKARRRQWDEPRVCSRRYLKVDFAIDIGNEWIIISPKSFDAYYCAGACEFMPKIVRPSNH
 ATIQSIVRAVGIVPGIPEPCVDPKMNSLGVFLDENRNAVLRKVPYPMNSVETCACR

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_145741

ORF Size: 1431 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

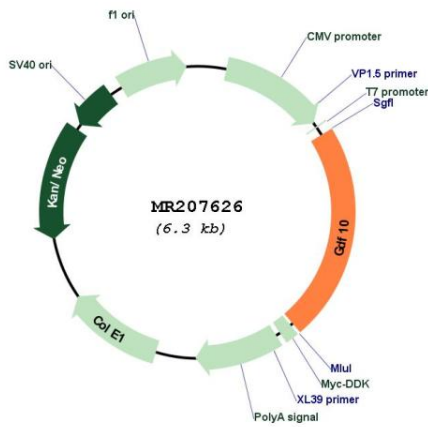
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
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_145741.3](#)
RefSeq Size: 2613 bp
RefSeq ORF: 1431 bp
Locus ID: 14560
UniProt ID: [P97737](#)
Cytogenetics: 14 20.8 cM
MW: 52.6 kDa

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 has been shown to promote neural repair after stroke and may act as a tumor suppressor. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MR207626