

Product datasheet for MR222967

Gdf3 (NM_008108) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdf3 (NM_008108) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gdf3
Synonyms:	C78318; ecat; ecat9; Gdf-3; Vg; Vgr; Vgr-2; Vgr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222967 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGCCTTATCAACGGCTTCTGGCGCTTGGCTTCTTCTGTTAACCTGCCCTGGGGCCAGACATCCG
AGTTTCAAGACTCTGACCTTTTGCAGTTTCTGGGATTAGAGAAAGCGCTTCACCTCACAGGTTCCAACC
TGTGCCTCGCGTCTTAAGGAAAATCATCCGGGCTCGAGAAGCCGCTGCAGCCAGTGGGGCTCGCAGGAC
TTATGCTACGTGAAGGAGCTGGGTGTTCTGTTGGAACTGCTTCACTTCTCCAGACCAGGGTTTTTTC
TTAATACACAGAAACCTTCCAAGATGGCTCCTGTCTCCAGAAGTCTCTATTTAACTTGTCTGCCAT
CAAAGAAAAGGCAAAGTTGACCATGGCCAGCTGACTCTAGACTTGGGGCCAGGTCTACTATAACCTG
CGACCAGAGCTGGTGGTTGCTCTGTCTGTGTTTCAAGACCGGGCGTGTGGGGGCGATCCCACCCTAAGG
TGGGCAGATTGCTTTTTCTGCGGTCTGTCCCTGGGCTCAAGGTCAGCTCCAGTTCAACCTGCAGGGTGC
GCTTAAGGATTGGAGCAGCAACCGACTGAAGAATTTGGACTTACACTTAGAGATTTTGGTCAAAGAGGAC
AGATACTCCAGGGTAACTGTCCAGCCGAGAACCCTGTGACCCGCTGCTCCGCTCTACATGCCTCGC
TGCTGGTGGTAACCCTCAATCTAAACTGTATCCTTCTCCAGAAAAGGAGGGCGGCCATCTCTGT
CCCCAAGGGTTTCTGTAGAACTTCTGCCACCGTCATCAGCTGTTCACTCAACTCCAGGACCTGGGTTGG
CACAAGTGGGTCATCGCCCTAAGGGTTCATGGCAAATTACTGTCATGGAGAGTGGCCCTTCTCAATGA
CCACGTATTTAAATAGTTCCAATTATGCTTTCATGCAGGCTCTGATGCATATGGCTGACCCCAAGGTCCC
CAAGGCTGTCTGTGTCACCAAGCTCTCGCCATCTCCATGCTCTATCAGGATAGTGATAAGAACGTC
ATTCTCCGACATTATGAAGACATGGTAGTCGATGAGTGTGGTGTGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222967 protein sequence
 Red=Cloning site Green=Tags(s)

MQPYQRLLALGFLLLTLPGQTSEFQSDLLQFLGLEKAPSPHRFQPVPRVLRKIIRAREAAAASGASQD
 LCYVKELGVRGNLLQLLPDQGF LNTQKPFQDGSCLQKVL YFNL SAIKEKAKL TMAQL TLDL GPRSYYNL
 RPELVVALSVVQDRGVWGRSHPKVGRLLFLRSVPGPQGQLQFNLQGALKDWSSNRLKNLDLHLEILVKED
 RYSRVTVQPENPCDPLLRSLHASLLVVTLNPKHCHPSSSRKRRAAISVPKGF CRNF CHRHQLF INFQDLGW
 HKWVIAPKGFMANYPCHGECPF SMTTYLNSSNYAFMQALMHMADPKVPKAVCVPTKLSPI SMLYQDSKKNV
 ILRHEDM VVDECGCG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008108

ORF Size: 1101 bp

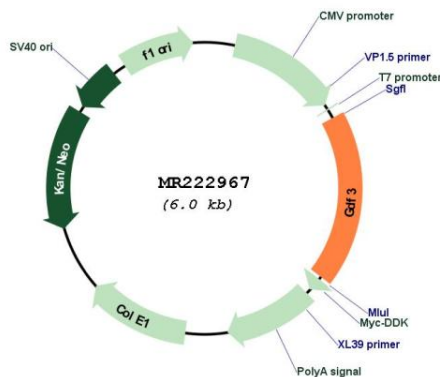
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<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_008108.1</u>
RefSeq Size:	2109 bp
RefSeq ORF:	1101 bp
Locus ID:	14562
UniProt ID:	<u>Q07104</u>
Cytogenetics:	6 57.7 cM
MW:	41.5 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 is important in embryogenesis and likely plays a role ocular and skeletal development. Mice lacking a functional copy of this gene exhibit defects in early embryonic development resulting in embryonic lethality. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR222967