

Product datasheet for **MG222967**

Gdf3 (NM_008108) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdf3 (NM_008108) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gdf3
Synonyms:	C78318; ecat; ecat9; Gdf-3; Vg; Vgr; Vgr-2; Vgr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222967 representing NM_008108 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGCAGCCTTATCAACGGCTTCTGGCGCTTGGCTTCTTCTGTTAACCTGCCCTGGGGCCAGACATCCGAGTTTTCAAGACTCTGACCTTTTGCAGTTTCTGGGATTAGAGAAAGCGCCTTCACCTCACAGGTTCCAACCTGTGCCTCGCGTCTTAAGGAAAATCATCCGGGCTCGAGAAGCCGCTGCAGCCAGTGGGGCTCGCAGGAC TTATGCTACGTGAAGGAGCTGGGTGTTCTGTTGGAACTGCTTCACTTCTCCAGACCAGGGTTTTTTCC TTAATACACAGAAACCTTCCAAGATGGCTCCTGTCTCCAGAAGTCTCTATTTAACTTGTCTGCCAT CAAAGAAAAGGCAAAGTTGACCATGGCCAGCTGACTCTAGACTTGGGGCCAGGTCTACTATAACCTG CGACCAGAGCTGGTGGTTGCTCTGTCTGTGTTTCAAGACCGGGCGTGTGGGGCCGATCCACCCCTAAGG TGGGCAGATTGCTTTTTCTGCGGTCTGTCCCTGGGCTCAAGGTCAGCTCCAGTTCAACCTGCAGGGTGC GCTTAAGGATTGGAGCAGCAACCGACTGAAGAATTTGGACTTACACTTAGAGATTTTGGTCAAAGAGGAC AGATACTCCAGGGTAACTGTCCAGCCGAGAACCCTGTGACCCGCTGCTCCGCTCTCTACATGCCTCGC TGCTGGTGGTAACCCTCAATCCTAAACTGTATCCTTCTTCCAGAAAAGGAGGGCGGCCATCTCTGT CCCAAGGGTTTCTGTAGAACTTCTGCCACCGTCATCAGCTGTTCACTCAACTCCAGGACCTGGGTTGG CACAAGTGGGTCATCGCCCTAAGGGTTCATGGCAAATTACTGTCATGGAGAGTGCCCTTCTCAATGA CCACGTATTTAAATAGTTCCAATTATGCTTTTCATGCAGGCTCTGATGCATATGGCTGACCCCAAGGTCCC CAAGGCTGTCTGTGTCACCAAGCTCTCGCCATCTCCATGCTCTATCAGGATAGTGATAAGAACGTC ATTCTCCGACATTATGAAGACATGGTAGTCGATGAGTGTGGTGTGGG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222967 representing NM_008108
Red=Cloning site Green=Tags(s)

MQPYQRLLALGFLLLTLPWGQTSEFQSDLLQFLGLEKAPSPHRFQPVPRVLRKIIRAREAAAAASGASQD
 LCYVKELGVRGNLLQLLPDQGF LNTQKPFQDGSCLQKVL YFNL SAIKEKAKL TMAQLTLDL GPRSYNLL
 RPELVVALSVVQDRGVWGRSHPKVGRLLFLRSVPGPQGQLQFNLQGALKDWSSNRLKNLDLHLEILVKED
 RYSRVTVQPENPCDPLLRSLHASLLVVTLNPKHCHPSSRKRRRAAISVPKGF CRNFCHRHQLF INFQDLGW
 HKWVIAPKGFMANYPCHGECF SMTTYLNSSNYAFMQALMHMADPKVPKAVCVPTKLSPI SMLYQDSKKNV
 ILRHEDM VVDECGCG

TRTRPLE - GFP Tag - V

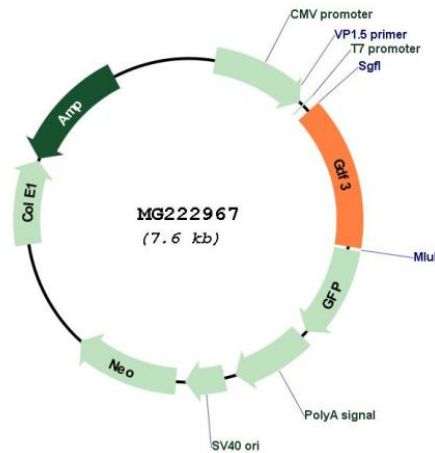
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_008108

ORF Size:	1098 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_008108.1
RefSeq Size:	2109 bp
RefSeq ORF:	1101 bp
Locus ID:	14562
UniProt ID:	Q07104
Cytogenetics:	6 57.7 cM
Gene Summary:	<p>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]</p>