

## Product datasheet for **MG204247**

### Gdf15 (NM\_011819) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gdf15 (NM_011819) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gdf15
Synonyms:	MIC-; MIC-1; NAG; NAG-1; SBF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204247 representing NM_011819 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCGCCGCTCCAGGCCAGCCTCCAGGCGGCTCTCAACTGAGGTTCTGCTGTTCTGCTGC  
TGTTGCTGCTGCTGTCATGGCCATCGCAGGGGACGCCCTGGCAATGCCTGAACAGCGACCCCTCCGG  
CCCTGAGTCCCAACTCAACGCCGACGAGCTACGGGGTTCGCTTCCAGGACCTGCTGAGCCGGTGCATGCC  
AACCAGAGCCGAGAGGACTCGAAGTCAAGCAAGTCTGACCCAGCTGTCCGGATACTCAGTCCAGAGG  
TGAGATTGGGGTCCCACGGCCAGCTGCTACTCCGCGTCAACCGGGCGTGCCTGAGTCAGGGTCTCCCGA  
AGCCTACCGGTGACCGAGCGCTGCTCCTGCTGACGCCGACGGCCGCCCTGGGACATCACTAGGCC  
CTGAAGCGTGCCTCAGCCTCCGGGGACCCGCTGCTCCCGCATTACGCTGCGCCTGACGCCGCTCCGG  
ACCTGGCTATGCTGCCCTCTGGCGGCACGAGCTGGAAGTGCCTTACGGGTAGCCCGCGCAGGGGGCG  
CCGAAGCGCGCATGCGCACCCAAGAGACTCGTGCCCACTGGGTCCAGGGCGCTGCTGCACTTGGAGACT  
GTGCAGGCAACTTTGAAGACTTGGGCTGGAGCGACTGGGTGCTGTCCCGCGCCAGCTGCAGCTGAGCA  
TGTGCGTGGGCGAGTGTCCACCTGTATCGCTCCGCGAACACGCATGCGCAGATCAAAGCACGCCTGCA  
TGGCCTGCAGCCTGACAAGGTGCCTGCCCGTGTGTCCCTCCAGCTACACCCGGTGGTCTTATG  
CACAGGACAGACAGTGGTGTGCTACTGCAGACTTATGATGACCTGGTGGCCCGGGCTGCCACTGCGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204247 representing NM\_011819  
Red=Cloning site Green=Tags(s)

MAPPALQAQPPGGSQLRFLLFLLLLLLLLSWPSQGDALAMPEQRPSGPESQLNADELGRFQDLLSRLHA  
 NQSRSDSNSESPDPAVRILSPEVRLGSHGQLLRVNRASLSQGLPEAYRVHRALLLTPARPWDITRP  
 LKRALSRLRPRAPALRLRLTPPDLAMLPSGGTQLELRLRVAAGRGRSSAHAHPRDSCPLGPGRCCHLET  
 VQATLEDLGSWDWYLSRQLQLSMCVGECPHLYRSANTHAQIKARLHGLQPKVPAPCCVPSSTYPVVL  
 M HRTDSGVSLQTYDDLVARGCHCA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011819

**ORF Size:** 909 bp

**OTI Disclaimer:** 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\\_011819.1](#), [NP\\_035949.1](#)

**RefSeq Size:** 1571 bp

**RefSeq ORF:** 912 bp

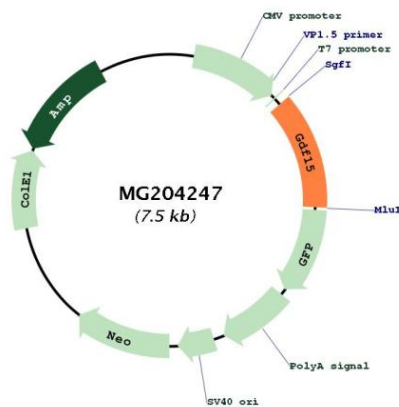
**Locus ID:** 23886

**UniProt ID:** [Q9Z0J7](#)

**Cytogenetics:** 8 B3.3

**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. The protein is expressed in a broad range of cell types, acts as a pleiotropic cytokine and is involved in the stress response program of cells after cellular injury. Increased protein levels are associated with disease states such as tissue hypoxia, inflammation, acute injury and oxidative stress. Mice lacking a functional copy of this gene exhibit progressive loss of motor neurons, and more rapid blood clot formation. [provided by RefSeq, Aug 2016]

**Product images:**



Circular map for MG204247