

Product datasheet for MR204247

Gdf15 (NM_011819) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gdf15 (NM_011819) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gdf15
Synonyms: MIC-; MIC-1; NAG; NAG-1; SBF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR204247 representing NM_011819
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGCCGCTCCAGGCCAGCCTCCAGGCGGCTCTCAACTGAGGTTCTGCTGTTCTGCTGCTGC
TGTTGCTGCTGCTGCTGTCATGGCCATCGCAGGGGGACGCCCTGGCAATGCCTGAACAGCGACCCCTCCGG
CCCTGAGTCCCAACTCAACGCCGACGAGCTACGGGGTTCGCTTCCAGGACCTGCTGAGCCGGTGCATGCC
AACCAGAGCCGAGAGGACTCGAACTCAGAACCAAGTCTGACCCAGCTGTCCGGATACTCAGTCCAGAGG
TGAGATTGGGGTCCCACGGCCAGCTGCTACTCCGCGTCAACCGGGCGTGCCTGAGTCAGGGTCTCCCGA
AGCCTACCGGTGCACCGAGCGCTGCTCCTGCTGACGCCGACGGCCCGCCCTGGGACATCACTAGGCC
CTGAAGCGTGCCTCAGCCTCCGGGGACCCGCTGCTCCCGCATTACGCCTGCGCCTGACGCCGCTCCGG
ACCTGGCTATGCTGCCCTCTGGCGGCACGAGCTGGAAGTGCCTACGGGTAGCCCGCCGAGGGGGCG
CCGAAGCGCGCATGCGCACCCAAGAGACTCGTGCCCACTGGGTCCAGGGCGCTGCTGCTACTGGAGACT
GTGCAGGCAACTTTGAAGACTTGGGCTGGAGCGACTGGGTGCTGTCCCGCGCCAGCTGCAGCTGAGCA
TGTGCGTGGGCGAGTGTCCACCTGTATCGCTCCGCGAACACGCATGCGCAGATCAAAGCACGCCTGCA
TGGCCTGCAGCCTGACAAGGTGCCTGCCCGTGTGTGTCCCTCCAGCTACACCCGGTGGTTCTTATG
CACAGGACAGACAGTGGTGTCTACTGCAGACTTATGATGACCTGGTGGCCCGGGCTGCCACTGCGCT

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

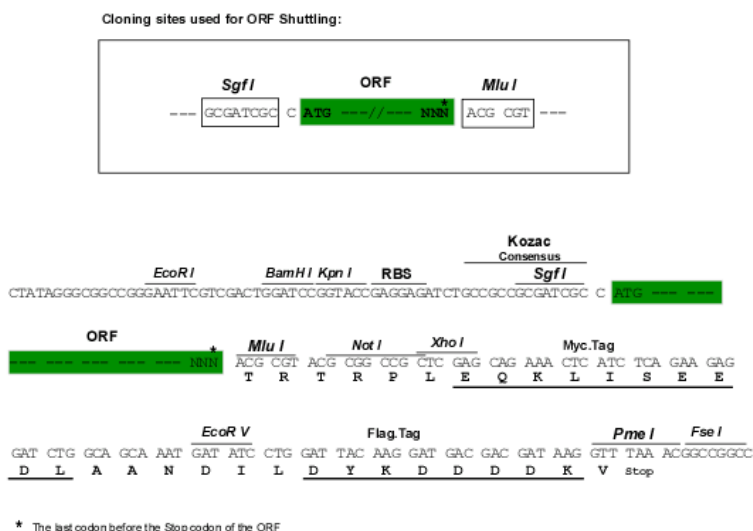
Protein Sequence: >MR204247 representing NM_011819
 Red=Cloning site Green=Tags(s)

MAPPALQAQPPGGSQLRFLLFLLLLLLLLSWPSQGDALAMPEQRPSGPESQLNADELGRFQDLLSRLHANQSRSDNSNEPSPDPAVRILSPEVRLGSHGQLLRVNRASLSQGLPEAYRVHRALLLLTPTARPWDITRPLKRALSRLRPRAPALRLRLTPPDLAMLPSGGTQLELRVAAGRGRSSAHAHPRDSCPLGPGRCCHELETVQATLEDLGSWDWVLSRQLQLSMCVGECPHLYRSANTHAQIKARLHGLQPKVPAPCCVPSSYTPVVLMLHRTDSGVSLQTYDDLVARGCHCA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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](#), [NM_011819.2](#), [NM_011819.3](#), [NP_035949.1](#)

RefSeq Size: 1571 bp

RefSeq ORF: 912 bp

Locus ID: 23886

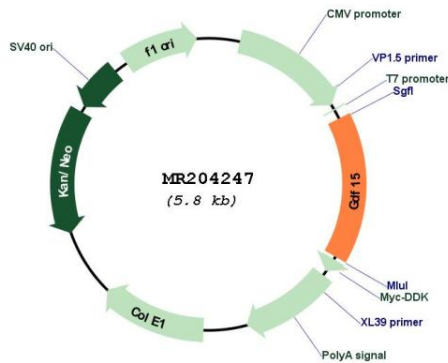
UniProt ID: [Q9Z0J7](#)

Cytogenetics: 8 B3.3

MW: 33.7 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. 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 MR204247