

Product datasheet for RN202605

Gdnf (NM_019139) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gdnf (NM_019139) Rat Untagged Clone
Tag: Tag Free
Symbol: Gdnf
Synonyms: gndf
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN202605 representing NM_019139
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTTATGGGATGTCGTGGCTGTCTGCCTGGTGTGCTCCACACCGGTCTGCCTTCCCGCTGCCCG
 CCGTAAGAGGCTTCTCGAAGCGCCCGCGAAGACCACTCCCTCGGCCACCGCCGCTGCCCTTCGCGCT
 GACCAGTGACTCCAATATGCCCGAAGATTATCCTGACCAGTTTGATGACGTCATGGATTTTATTCAAGCC
 ACCATCAAAGACTGAAAAGTCCAGATAAACAAGCGCGGCACTTCTCGAAGAGAGGAACCGGC
 AAGCTGCAGTGCCAGCCAGAGAATTCAGAGGAAAGGTCGAGAGGCCAGAGGGCAAAAATCGGGG
 GTGCGTCTAACTGCAATACACTTAAATGTCACTGACTTGGGTTTGGGCTACGAAACCAAGGAGGA
 ACTGATCTTTTCGATATTGTAGCGGTTCTGTGAAGCGGCCGAGACAATGTACGACAAAATAAAAAATCTGT
 CTCGAAGTAGAAGGCTAACAAGTGACAAGGTAGGCCAGGCATGTTGCAGGCCGGTCGCCTTCGACGACGA
 CCTGTCGTTTTTAGACGACAGCCTGGTTTACCATATCCTAAGAAAGCATTCCGCTAAACGGTGTGGATGT
 ATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_019139
Insert Size: 636 bp



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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](#)

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_019139.1](#), [NP_062012.1](#)

RefSeq Size: 700 bp

RefSeq ORF: 636 bp

Locus ID: 25453

UniProt ID: [Q07731](#)

Cytogenetics: 2q16

Gene Summary: neurotrophic factor specific for midbrain dopamine neurons; binds to GDNFR-alpha and mediates activation of the Ret protein tyrosine kinase receptor [RGD, Feb 2006]