

Product datasheet for **MG227554**

Gdnf (NM_010275) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdnf (NM_010275) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gdnf
Synonyms:	A1385739; ATF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227554 representing NM_010275 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGATTCGGGCCACTTGGAGTTAATGTCCAACCTGGGGTCTACGGAGACCGGATCCGAGGTGCCCGC
CCGGACGGGACTTAAGATGAAGTTATGGGATGTCGTGGCTGTCTGCCTGGTGTGCTCCACACCGCGTC
TGCCTTCCCGCTGCCCGCGTAAGAGGCTTCTGAAGCGCCCGCTGAAGACCACTCCCTCGCCACCGC
CGCGTCCCTTCGCGCTGACCAGTGACTCCAATATGCCTGAAGATTATCCTGACCAGTTTGATGACGTCA
TGGATTTTATTCAAGCCACCATTAAAAGACTGAAAAGGTCACCAGATAACAAGCGGCAGCGCTTCCCTCG
AAGAGAGAGGAATCGGCAGGCTGCAGCTGCCAGCCAGAGAATTCAGAGGGAAAGGTCCGAGAGGCCAG
AGGGGCAAAAATCGGGGTGCGTTTTAACTGCCATACACTTAAATGTCACTGACTTGGGTTTGGGCTATG
AAACCAAGGAGGAAGTATCTTTCGATATTGCAGCGGTTCTGTGAATCGGCCGAGACAATGTATGACAA
AATACTAAAAACCTGTCTCGGAGTAGAAGGCTAACAAAGTGACAAAGTAGGCCAGGCATGTTGCAGGCCG
GTCGCCTTCGACGACGACCTGTCGTTTTAGATGACAACCTGTTTACCATATTCTAAGAAAGCATTCCG
CTAAACGGTGTGGATGTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227554 representing NM_010275
 Red=Cloning site Green=Tags(s)

MGFGPLGVNVQLGVYGDRIRGAAAGRDSKMKLWDVVAVCLVLLHTASAFPLPAGKRLLEAPAEDHSLGHR
 RVPFAL TSDSNMPEDYDPDQFDDVMDFIQATIKRLKRSPDKQAAALPRRERNRQAAAASPENSRGKGRRGQ
 RGKNRGCVLTAIHLNVTDLGLGYETKEELIFRYCSGSCESAETMYDKILKNLSRSRRLTSDKVQGACCRP
 VAFDDDL SFLDDNLVYHILRKHS AKRCGCI

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2338_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010275

ORF Size: 720 bp

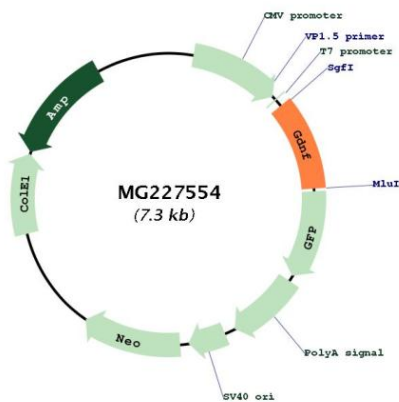
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	NM_010275.3
RefSeq Size:	3509 bp
RefSeq ORF:	723 bp
Locus ID:	14573
UniProt ID:	P48540
Cytogenetics:	15 A1
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. The recombinant form of this protein, a highly conserved neurotrophic factor, was shown to promote the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. This protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. Homozygous knockout mice for this gene exhibit defects in kidney development and neonatal death. This gene encodes multiple protein isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Aug 2016]</p>

Product images:



Circular map for MG227554