

Product datasheet for MR227554

Gdnf (NM_010275) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdnf (NM_010275) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gdnf
Synonyms:	A1385739; ATF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227554 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGATTCGGGCCACTTGGAGTTAATGTCCAACCTGGGGTCTACGGAGACCGGATCCGAGGTGCCCGC
CCGGACGGGACTCTAAGATGAAGTTATGGGATGTCGTGGCTGTCTGCCTGGTGTGCTCCACACCGCGTC
TGCCTTCCCGCTGCCCGCGTAAGAGGCTTCTGAAGCGCCGCTGAAGACCACTCCCTCGCCACCGC
CGCGTCCCTTCGCGCTGACCAGTGACTCCAATATGCCTGAAGATTATCCTGACCAGTTTGATGACGTCA
TGGATTTTATTCAAGCCACCATTAAAAGACTGAAAAGGTCACCAGATAAACAAGCGGCAGCGCTTCCCTCG
AAGAGAGAGGAATCGGCAGGCTGCAGCTGCCAGCCAGAGAATTCAGAGGGAAAGGTCGCAGAGGCCAG
AGGGGCAAAAATCGGGGTGCGTTTTAACTGCCATACACTTAAATGTCACTGACTTGGGTTTGGGCTATG
AAACCAAGGAGGAAGTCTTTTCGATATTGCAGCGGTTCTGTGAATCGGCCGAGACAATGTATGACAA
AATACTAAAAACCTGTCTCGGAGTAGAAGGCTAAACAAGTGACAAAGTAGGCCAGGCATGTTGCAGGCCG
GTCGCCTTCGACGACGACCTGTCGTTTTAGATGACAACCTGTTTACCATATTCTAAGAAAGCATTCCG
CTAAACGGTGTGGATGTATC

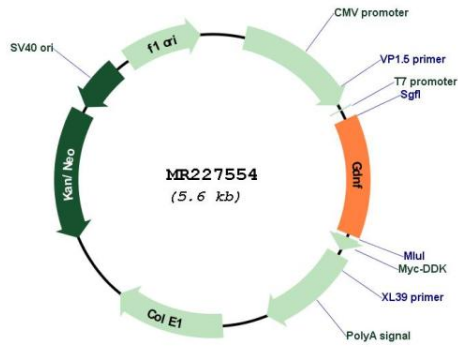
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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:	4477 bp
RefSeq ORF:	723 bp
Locus ID:	14573
UniProt ID:	P48540
Cytogenetics:	15 A1
MW:	26.6 kDa
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 MR227554