

Product datasheet for **SC307904**

GDNF (NM_199231) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDNF (NM_199231) Human Untagged Clone
Tag:	Tag Free
Symbol:	GDNF
Synonyms:	ATF; ATF1; ATF2; HFB1-GDNF; HSCR3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_199231 edited ATGAAGTTATGGGATGTCGTGGCTGTCTGCCTGGTGCTGCTCCACACCGCGTCCGCCTTC CCGCTGCCCGCCGCAAATATGCCAGAGGATTATCCTGATCAGTTCGATGATGTCATGGAT TTTATTCAAGCCACCATTAAAAGACTGAAAAGGTCACCAGATAAACAAATGGCAGTGCTT CCTAGAAGAGAGCGGAATCGGCAGGCTGCAGCTGCCAACCCAGAGAATTCCAGAGGAAAA GGTCGGAGAGGCCAGAGGGGCAAAAACCGGGTTGTGTCTTAACTGCAATACATTTAAAT GTCACTGACTTGGGTCTGGGCTATGAAACCAAGGAGGAACTGATTTTTAGGTA CTGCAGC GGCTCTTGCGATGCAGCTGAGACAACGTACGACAAAATATTGAAAACTTATCCAGAAAT AGAAGGCTGGTGAGTGACAAAGTAGGGCAGGCATGTTGCAGACCCATCGCCTTTGATGAT GACCTGTCGTTTTAGATGATAACCTGGTTTACCATATTCTAAGAAAGCATTCCGCTAAA AGGTGTGGATGTATCTGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_199231 unedited GGTCAGCATTGTATACGACTCCTATAGGCGGCCGCGNATTCCTGCAGCCCGGGGATCC GCCCATGAAGTTATGGGATGTCGTGGCTGTCTGCCTGGTGTCTCCACACCCGCTCCGC CTTCCCCTGCCCGCCGCAAAATATGCCAGAGGATTATCCTGATCAGTTCGATGATGTCAT GGATTTTATTCAAGCCACCATTAAGAACTGAAAAGGTCACCAGATAAACAAATGGCAGT GCTTCCTAGAAGAGAGCGGAATCGGCAGGCTGCAGCTGCCAACCCAGAGAATCCAGAGG AAAAGGTCGGAGAGGCCAGAGGGGCAAAAACCGGGTTGTCTTAACTGCAATACATTT AAATGTCACCTGACTTGGGTCTGGGCTATGAAACCAAGGAGGAAGTATTTTGGTACTG CAGCGGCTCTTGCGATGCAGCTGAGACAACGTACGACAAAATATTGAAAACTTATCCAG AAATAGAAGGCTGGTGTGAGTGACAAAGTAGGGCAGGCATGTTGCAGACCCATCGCCTTTGA TGATGACCTGTCTTTTTAGATGATAACCTGGTTTACCATATTCTAAGAAAGCATTCCGC TAAAAGGTGTGGATGTATCTGAGGGCTAGAGCGGCCGCGTTCATAGCTGTTTCCTGAACA GATCCCGGTGGCATCCCTGTGACCCCTNCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCC ACTCCAGTGCCCACCAGCCTTGCCTAATAAAAATTAAGTGCATATTTTGTCTGACTAG GTGTCCTTCTATATATTATGGGGTGAGGGGGTGGGATTGGAACAAAGGGCCAGNTGGGA AAAACACCTGTAAGGCCTGCCGGTCTATTGGGAACAAGCTGAATTGCAGTGGCCCAATC TGGA
Restriction Sites:	Please inquire
ACCN:	NM_199231
Insert Size:	600 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_199231.1 , NP_954701.1
RefSeq Size:	681 bp
RefSeq ORF:	558 bp
Locus ID:	2668
UniProt ID:	P39905
Cytogenetics:	5p13.2

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

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 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. Mutations in this gene may be associated with Hirschsprung disease and Tourette syndrome. This gene encodes multiple protein isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Aug 2016]

Transcript Variant: This variant (2) differs in the 5' UTR, represents use of an alternate promoter, uses a downstream start codon, and uses an alternate in-frame splice site in the coding region, compared to variant 3. The resulting isoform (2) has a shorter N-terminus and lacks an internal segment, compared to isoform 3. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.