

Product datasheet for SC123827

NGF (NM_002506) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NGF (NM_002506) Human Untagged Clone
Tag:	Tag Free
Symbol:	NGF
Synonyms:	Beta-NGF; HSN5; NGFB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002506 edited
 CCACGCGTCCGCGGACGCGTGGGCGCTGGGAGCCGGAGGGGAGCGCAGCGAGTTTTGGCC
 AGTGGTCGTGCAGTCCAAGGGGCTGGATGGCATGCTGGACCCAAGCTCAGCTCAGCGTCC
 GGACCCAATAACAGTTTTACCAAGGGAGCAGCTTCTATCCTGGCCACACTGAGGTGCAT
 AGCGTAATGTCCATGTTGTTCTACACTCTGATCACAGCTTTTCTGATCGGCATACAGGCG
 GAACCACACTCAGAGAGCAATGTCCCTGCAGGACACACCATCCCCAAGTCCACTGGACT
 AAACCTCAGCATTCCCTTGACACTGCCCTTCGCAGAGCCCGCAGCGCCCCGGCAGCGGCG
 ATAGCTGCACGCGTGGCGGGGAGACCCGCAACATTACTGTGGACCCAGGCTGTTTAA
 AAGCGGCGACTCCGTTACCCCCGTGTGCTGTTTAGCACCCAGCCTCCCCGTAAGCTGCA
 GACTCAGGATCTGGACTTCGAGGTCGGTGGTGTGCTGCCCTTCAACAGGACTCACAGG
 AGCAAGCGGTATCATCCCATCCATCTCCACAGGGGCGAATTCTCGGTGTGTGACAGT
 GTCAGCGTGTGGTTGGGATAAGACCACCGCCACAGACATCAAGGGCAAGGAGGTGATG
 GTGTTGGGAGAGGTGAACATTAACAACAGTGTATTCAAACAGTACTTTTTTGAGACCAAG
 TGCCGGGACCCAAATCCCGTTGACAGCGGGTGGCGGGGATTGACTCAAAGCACTGGAAC
 TCATATTGTACCAGACTCACACCTTTGTCAAGGCGGTGACCATGGATGGCAAGCAGGCT
 GCCTGGCGGTTTATCCGATAGATACGGCCTGTGTGTGTGTGCTCAGCAGGAAGGCTGTG
 AGAAGAGCCTGACCTGCCGACACGCTCCCTCCCCCTGCCCTTCTACACTCTCTGGGCC
 CCTCCCTACCTCAACCTGTAATTTATTTTAAATTATAAGGACTGCATGGTAATTTATAGT
 TTATACAGTTTTAAAGAATCATTATTTATTAATTTTTGGAAGCAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002506 unedited
 GGGGAGTTCACATTTGTATACGACTCATATAGGCGGCCGACGATTCATATCTGGTACCGG
 TCCGGAATTCCTGGGATATCGTGCAGCCACGCGTCCGCGGACGCGTGGGCGCTGGGAGCC
 GGAGGGGAGCGCAGCGAGTTTTGGCCAGTGGTCTGCAGTCCAAGGGGCTGGATGGCATG
 CTGGACCCAAGCTCAGCTCAGCGTCCGGACCAATAACAGTTTTACCAAGGGAGCAGCTT
 TCTATCCTGGCCACACTGAGGTGCATAGCGTAATGTCCATGTTGTTCTACACTCTGATCA
 CAGCTTTTCTGATCGGCATACAGGCGGAACCACACTCAGAGAGCAATGTCCTGACAGGAC
 ACACCATCCCCCAAGTCCACTGGACTAAACTTCAGCATTCCCTTGACACTGCCCTTCGCA
 GAGCCCGCAGCGCCCGGCGAGCGCGATAGCTGCACGCGTGGCGGGGAGACCCGCAACA
 TTAAGTGTGGACCCAGGCTGTTAAAAAGCGGCGACTCCGTTACCCCGTGTGCTGTTTA
 GCACCCAGCCTCCCGTGAAGCTGCAGACACTCAGGATCTGGACTTCGAGGTGCGTGGTG
 CTGCCCTTCAACAGGACTCACAGGAGCAAGCGGTATCATCCCATCCCATCTCCACA
 GGGGCGAATTCTCGGTGTGTGACAGTGTACGCGTGTGGGTTGGGATAAGACCACCGCCA
 CAGACATCAAGGGCAAGGAGGTGATGGTGTGGGAGAGGTGAACATTAACAACAGTGTAT
 TCAAACAGTACTTTTTGAGACCAAGTGCCGGGACCCAAATCCCGTTGACAGCGGGTGCC
 GGNGCATTGACTCANACACTGGNACTCATATTGTACCACGACTCACACCTTNGTCAGGC
 GCTGACCAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002506 unedited
 CATAGTCATGGCATGGCACTTGCCAGGGCCAGGANAGCACTGGGNGAGGGTCACAGGGAT
 GCCACCCGGGTTCTGTTCCAGAAACAGCTATGACCGCGGCCGCCCTTTTTTTTTTTTTTTT
 GCTTCCAAAAATTAATAAATAATGATTCTTTAAACTGTATAAACTATAAATTACCATG
 CAGTCCTTATAATTTAAATAATTTACAGGTTGAGGTAGGGAGGGGCCAGGAGAGTGTA
 AAAGGGGCAGGGGAGGGAGCGTGTGCGCAGGTCAGGCTTCTCACAGCCTTCCTGCTG
 AGCACACACACAGGCCGATCTATCCGATAAACCGCCAGGCAGCCTGCTTGCCATCC
 ATGGTCAGCGCCTTGACAAAGGTGTGAGTCGTGGTACAATATGAGTTCAGTGCTTTGAG
 TCAATGCCCGGCACCCGCTGTCAACGGGATTTGGGTCCCGGCACTTGGTCTCAAAAAAG
 TACTGTTTGAATACACTGTTGTTAATGTTACCTCTCCCAACACCATCACCTCCTTGCCC
 TTGATGTCTGTGGCGGTGGTCTTATCCCCAACCCACACGCTGACACTGTCACACACCGAG
 AATTCNCCCCTGTGGAAGATGGGATGGGATGATGACCGCTTGCTCCTGTGAGTCCGTGTTG
 AAGGGGCGAGCACCACCGACCTCGAAGTCCAGATCCTGAGTGTCTGCAGCTTCACGGGGA
 GGCTGGGTGCTAAACAGCACACGGTGTGAACGGAGTCGCCGCTTTTTAAACAGCCTGGGG
 TCCACAGTAATGTTGCGGGTCTGCCCCGCCACGCGTGAACCTTTCGCCGCTGCCGGGGC
 GCTCGGGCTTTGAAAGGGCAGTGTCAAGGTATGCTTAAATTTAATCCGTGGACTGGGGG
 AGTGC

Restriction Sites:

Please inquire

ACCN:

NM_002506

Insert Size:

1200 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
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_002506.2 , NP_002497.2
RefSeq Size:	1052 bp
RefSeq ORF:	726 bp
Locus ID:	4803
UniProt ID:	P01138
Cytogenetics:	1p13.2
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Apoptosis, MAPK signaling pathway, Neurotrophin signaling pathway
Gene Summary:	This gene is a member of the NGF-beta family and encodes a secreted protein which homodimerizes and is incorporated into a larger complex. This protein has nerve growth stimulating activity and the complex is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of this gene's expression is associated with allergic rhinitis. [provided by RefSeq, Jul 2008]