

Product datasheet for SC117018

Neuroserpin (SERPIN1) (NM_005025) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroserpin (SERPIN1) (NM_005025) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuroserpin
Synonyms:	HNS-S1; HNS-S2; neuroserpin; P112
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117018 sequence for NM_005025 edited (data generated by NextGen Sequencing)

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ATGGCTTTCCTTGGACTCTTCTCTTTGCTGGTTCTGCAAAGTATGGCTACAGGGCCACT
TTCCTGAGGAAGCCATTGCTGACTTGTGAGTGAATATGTATAATCGTCTTAGAGCCACT
GGTGAAGATGAAAATATTCTCTCTCATTGAGTATTGCTCTTGAATGGGAATGATG
GAAGTTGGGGCCCAAGGATCTACCCAGAAAAGAAATCCGCCACTCAATGGGATATGACAGC
CTAAAAATGGTGAAGAATTTTCTTTCTTGAAGGAGTTTTCAAACATGGTAACTGCTAAA
GAGAGCCAATATGTGATGAAAATTGCCAATTCCTTGTGTTGTGCAAAATGGATTTTCATGTC
AATGAGGAGTTTTGCAATGATGAAAAATATTTAATGCAGCAGTAAATCATGTGGAC
TTCAGTCAAAATGTAGCCGTGGCCAACACATCAATAAGTGGGTGGAGAATAACACAAC
AATCTGGTGAAGATTTGGTATCCCAAGGATTTTGTGCTGCCACTTATCTGGCCCTC
ATTAATGTGTCTATTTCAAGGGAACTGGAAGTCGCAGTTTAGGCCTAAAAACTAGA
ACCTTTTCTTTCACTAAAGATGATGAAAGTGAAGTCCAAATTCATGATGTATCAGCAA
GGAGAATTTTATTATGGGGAATTTAGTGTGGCTCCAATGAAGCTGGTGGTATCTACAA
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GAAGTTCTCTTGTACTCTGGAGCCATTAGTCAAAGCACAGCTGGTTGAAGAATGGGCA
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AATTTGACAGGCCTCTGATAATAAGGAGATTTTTCTTTCCAAAGCAATTCACAAGTCC
TTCCTAGAGGTTAATGAAGAAGGCTCAGAAGCTGCTGCTGTCTCAGGAATGATTGCAATT
AGTAGGATGGCTGTGCTGTATCCTCAAGTTATTGTGACCATCCATTTTTCTTTCTTATC
AGAAACAGGAGAACTGGTACAATTCTATTCATGGGACGAGTCATGCATCCTGAAACAATG
AACACAAGTGGACATGATTTCAAGAAGCTTTAA

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Clone variation with respect to NM_005025.4
589 g=>a



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005025 unedited
 TTACGTTTTGTAACCGACCTCNTATAGGCGTCCGCGACATTTCGCACGAGGGCGGAGCGGA
 TCACATTCGCGGAGCACAAGCTCCAGCATCCCCTCAGGGTTGCAGGTGTGGGAGGC
 TTGAACTGTTACAATATGGCTTTCCTTGGACTTCTCTTTGCTGGTTCTGCAAAGTAT
 GGCTACAGGGGCCACTTCCCTGAGGAAGCCATTGCTGACTTGTGAGTGAATATGTATAA
 TCGTCTTATAGCCACTGGTGAAGATGAAAATTTCTTCTCTCCATTGAGTATTGCTCT
 TGCAATGGGAATGATGGAACCTGGGGCCCAAGGATCTACCCAGAAAGAAATCCGCCACTC
 AATGGGATATGACAGCCTAAAAAATGGTGAAGAATTTCTTTCTTGAAGGAGTTTCAA
 CATGGTAACTGCTAAAGAGAGCCAAATATGTGATGAAAATTGCCAATTCCTTGTGTTGCA
 AAATGGATTTTCATGTCAATGAGGAGTTTTTGCAAATGATGAAAAAATATTTAATGCAGC
 AGTAAATCATGTGGACTTCAGTCAAAATGTAGCCGTGGCCAACTACATCAATAAGTGGGT
 GGAGAATAACACAACAATCTGGTGAAGATTTGGTATCCCAATGGATTTTGTGCTGC
 CACTTATCTGGCCCTCATTAAATGCTGTCTATTTCAAGNGAACTGGAAGTCGAGTTTAT
 GCCTAAAAATACTAGAACCTTTTCTTCTACTATAGATGATGAAAGTAAAGTCAAATTC
 AATGATGTATCAGCAAGGAGAATTTTATTATGGGNGAATCTAGTATGGCTCCAATGAAG
 CTGNTGGTATCTACCAAGTCCTATNAATACATATGAANGAGATGAAATAGCATGATGCTG
 TGCTGTCCAGACAGGAAGTNCCTN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005025 unedited
 NNNNTTCGCTCTGGACCCGCGGCCGAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTTCA
 ATAGGTACTTTTTATTTAAACAACAGCACACAACACAATGACATAACAGGACCATTAGC
 TTAATACTGATAACATTCCTTGACAAGTACTTATAATTTACATATATTGTTTTATCTG
 GAACTATTTTAAATATTATCTTAAGATATACTGTAAAACACAAATCCTAAATATATACCA
 GTTGCAACATAATGTGCTTAGTACTGTTTTCTTGTATTCAAATAAAGTAACTTAAA
 GTTCTTCGAAATCATGTCCACTTGTGTTTTCAGGATGCATGACTCGTCCCATGA
 ATAGAATTGTACCAGTTCCTGTTTCTGATAAGAAAGAAAAATGGATGGTGCACAATAA
 CTTGAGGATACAGCACAGCCATCCTACTAATTGCAATCATTCTGAGACAGCAGCAGCTT
 CTGAGCCTTCTTCATTAACCTCTAGGAAGGACTTGTGAATTGCTTTGGAAAGAAAAATCT
 CCTTATTATCAGAGAGCCTGTCAAATTTGCATCTTTGATGAAAAATTCAGTTATTCCAA
 GAGCCTTCAAAACATCTTTAAATCAATTTCTGTTCCACTGTGAACCTGGGCAGGTATA
 CTTCTACTTTNTGCTTCTTACAGAGTTTGCCCATCTTCAACCAGCTGTGCTTTGACTAA
 TGGCTCCAGAGTAGCAAGAAGAACTTCTGTCTGGACAGCACCAGCATCATGCTTATTT
 CATCTCCTTCATATGGNATTCCTAGGAAGTGGGTAGATACACCCAGCTCCATTGAAGCCA
 TCACTAANATCCCATATANAATTCCTTGTGATCCATACTGGAAATGGNACTCACC
 TCTATCC

Restriction Sites:

NotI-NotI

ACCN:

NM_005025

Insert Size:

1430 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).

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_005025.2](#), [NP_005016.1](#)

RefSeq Size: 1910 bp

RefSeq ORF: 1233 bp

Locus ID: 5274

UniProt ID: [Q99574](#)

Cytogenetics: 3q26.1

Domains: SERPIN

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: This gene encodes a member of the serpin superfamily of serine proteinase inhibitors. The protein is primarily secreted by axons in the brain, and preferentially reacts with and inhibits tissue-type plasminogen activator. It is thought to play a role in the regulation of axonal growth and the development of synaptic plasticity. Mutations in this gene result in familial encephalopathy with neuroserpin inclusion bodies (FENIB), which is a dominantly inherited form of familial encephalopathy and epilepsy characterized by the accumulation of mutant neuroserpin polymers. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same isoform.