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Product datasheet for SC318861

Neuroserpin (SERPINI1) (NM_001122752) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Neuroserpin (SERPINI1) (NM_001122752) Human Untagged Clone

Tag: Tag Free

Symbol: SERPINI1

Synonyms: HNS-S1; HNS-S2; neuroserpin; PI12

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001122752, the custom clone sequence may differ by one or more nucleotides
ATGGCTTTCCTTGGACTCTTCTCTTTGCTGGTTCTGCAAAGTATGGCTACAGGGGCCACT
TTCCCTGAGGAAGCCATTGCTGACTTGTCAGTGAATATGTATAATCGTCTTAGAGCCACT
GGTGAAGATGAAAATATTCTCTTCTCTCCATTGAGTATTGCTCTTGCAATGGGAATGATG
GAACTTGGGGCCCAAGGATCTACCCAGAAAGAAATCCGCCACTCAATGGGATATGACAGC
CTAAAAAATGGTGAAGAATTTTCTTTCTTGAAGGAGTTTTCAAACATGGTAACTGCTAAA
GAGAGCCAATATGTGATGAAAATTGCCAATTCCTTGTTTGTGCAAAATGGATTTCATGTC
AATGAGGAGTTTTTGCAAATGATGAAAAAATATTTTAATGCAGCAGTAAATCATGTGGAC
TTCAGTCAAAATGTAGCCGTGGCCAACTACATCAATAAGTGGGTGGAGAATAACACAAAC
AATCTGGTGAAAGATTTGGTATCCCCAAGGGATTTTGATGCTGCCACTTATCTGGCCCTC
ATTAATGCTGTCTATTTCAAGGGGAACTGGAAGTCGCAGTTTAGGCCTGAAAATACTAGA
ACCTTTTCTTTCACTAAAGATGATGAAAGTGAAGTCCAAATTCCAATGATGTATCAGCAA
GGAGAATTTTATTATGGGGAATTTAGTGATGGCTCCAATGAAGCTGGTGGTATCTACCAA
GTCCTAGAAATACCATATGAAGGAGATGAAATAAGCATGATGCTGGTGCTGTCCAGACAG
GAAGTTCCTCTTGCTACTCTGGAGCCATTAGTCAAAGCACAGCTGGTTGAAGAATGGGCA
AACTCTGTGAAGAAGCAAAAAGTAGAAGTATACCTGCCCAGGTTCACAGTGGAACAGGAA
ATTGATTTAAAAGATGTTTTGAAGGCTCTTGGAATAACTGAAATTTTCATCAAAGATGCA
AATTTGACAGGCCTCTCTGATAATAAGGAGATTTTTCTTTCCAAAGCAATTCACAAGTCC
TTCCTAGAGGTTAATGAAGAAGGCTCAGAAGCTGCTGCTGTCTCAGGAATGATTGCAATT
AGTAGGATGGCTGTGCTGTATCCTCAAGTTATTGTCGACCATCCATTTTTCTTTCTTATC
AGAAACAGGAGAACTGGTACAATTCTATTCATGGGACGAGTCATGCATCCTGAAACAATG
AACACAAGTGGACATGATTTCGAAGAACTT

Restriction Sites: Please inquire

ACCN: NM_001122752

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).

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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001122752.1, NP_001116224.1
RefSeq Size:	1696 bp
RefSeq ORF:	1233 bp
Locus ID:	5274
UniProt ID:	Q99574
Cytogenetics:	3q26.1
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 (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform.