

Product datasheet for **SC104003**

alpha Internexin (INA) (NM_032727) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Internexin (INA) (NM_032727) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha Internexin
Synonyms:	NEF5; NF-66; TXBP-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC104003 sequence for NM_032727 edited (data generated by NextGen Sequencing)

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ATGAGCTTCGGCTCGGAGCACTACCTGTGCTCCTCCTCCTACCGCAAGGTGTTCCGG
GATGGCTCTCGCCTGTCCGCCCGCTCTCTGGGGCCGGCGCGGGCGGCTTCCGCTCG
CAGTCGCTGTCCCGCAGCAATGTGGCTCCTCGGCCGCTGCTCCTCGGCCTCGTCGTC
GGCCTCGGCCTGGCCTATCGCCGGCCGGCGTCCGACGGGCTGGACCTGAGCCAGGCC
GGCGCGCACCAACGAGTACAAGATCATCCGCACCAACGAGAAGGAGCAGCTGCAGGGC
CTCAACGACCGCTTCGCGGTGTTTCATCGAGAAGGTGCATCAGCTGGAGACGAGAACC
GCGTTGGAGGCCGAGCTGGCCGGCTGCGACAGCGCCACGCTGAGCCGTGCGCGTTGGC
GAGCTCTTCCAGCGGAGCTGCGCGACCTGCGCGCGCAGCTGGAGGAGGCCAGCTCGGT
CGCTCGCAGGCCCTGCTGGAGCGCGACGGGCTGGCGGAGGAGGTGCAGCGGCTGCGGGC
CGCTGCGAGGAGGAGAGCCGGGACGCGAAGGCGCGGAGCGGCCCTGAAGGCGCAGCAG
CGCGACGTGGACGGCGCCACGCTGGCCCGCTGGACCTGGAGAAGAAGGTGGAGTCGCTG
CTGGACGAGCTGGCCTTCGTACGCCAGGTGCACGACGAGGAGGTAGCCGAGCTGTGGCC
ACGCTGCAGGCGTCGTCGAGGCCGCGCCGAGGTGGACGTGACTGTGGCTAAACCAGAC
CTGACCTCGGCTCTGAGGGAGATCCGCGCCAGTATGAGTCCCTGGCCGCTAAGAACCCTG
CAGTCCGCGGAAGAATGGTACAAGTCCAAGTTGCCAACCTGAATGAGCAGGCGGCGCGC
AGCACCGAGGCCATCCGGGCCAGCCGCGAGGAGATCCACGAGTATCGGCGCCAGCTGCAG
GCGCGCACCATCGAGATCGAGGGCCTGCGCGGGGCAACGAGTCTTGGAGAGGCAGATC
CTGGAGCTGGAGGAGCGGCACAGTGCAGGAGTGTGCTACCAGGATAGCATTGGGCGAG
CTGGAGAATGATCTGAGGAACACCAAGAGTGTGATGGCACGCCACCTTCGGGAATACCAG
GACTTGCTCAATGTCAAATGGCTCTTGACATTGAGATAGCAGCTTACAGGAACTGCTG
GAAGCGAGGAGACCGTTTTAGCACAGTGGGTTAAGCATTTCGGGGCTGAATCCACTT
CCCAATCCAAGTTACCTGCTCCACCTAGAATCCTCAGTGTACAACTCCAAGTCTCA
TCCACTGGGCTATCACTTAAAGAAAGAGGAGGAGGAGGAGGAGGCATCTAAGGTAGCCTCT
AAGAAAACCTCCAGATAGGGGAAAGTTTTGAAGAAATATTAGAGGAGACAGTAATATCT
ACTAAGAAAACCGAGAAATCAAATATAGAAGAAACCACCATTTCAAGCCAAAAAATAAA
    
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Clone variation with respect to NM_032727.3
 417 c=>t;885 c=>t

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_032727 unedited
NGTCAAAATTTGTATACGACTCATATAGGCGGCCCGCAATTCGCACGAGGCCTCGTGCC
GAATTCGGCAGCAGGCTCCTTTCTTCTGTAGCTCGCGTTGAAGCCGCACGTCCGGCCCCG
ATCCCGGCACCATGAGCTTCGGCTCGGAGCACTACCTGTGCTCCTCCTCCTACCGCA
AGGTGTTTCGGGGATGGCTCTCGCCTGTCCGCCCGCTCTCTGGGGCCGGCGCGGGCGG
GCTTCCGCTCGCAGTCGCTGTCCCGCAGCAATGTGGCTCCTCGGCCGCTGCTCCTCGG
CCTCGTCGCTCGCCTCGCCTGGCCTATCGCCGGCCGCGCGCTCCGACGGGCTGGACC
TGAGCCAGGCGGCGCGCACCAACGAGTACAAGATCATCCGCACCAACGAGAAGGAGC
AGCTGCAGGGCCTCAACGACCGCTTCGCCGTGTTTCATCGAGAAGGTGCATCAGCTGGAGA
CGCAGAACCGCGGTTGGAGGCCGAGCTGGCCGCGCTGCGACAGCGCCACGCTGAGCCGT
CGCGGTTGGCGAGCTCTCCAGCGGAGCTGCGCGACCTGCGCGCGCAGCTGGAGGAGG
CCAGCTCGGCTCGCTCGCAGGCCCTGCTGGAGCGCGACGGGCTGGCGGAGGAGGTGCAGC
GGCTGCGGGCGCGCTGCGAGGAGGAGAGCCGCGGACGCGAAGGCCCGGAGCGGCCCTGA
AGGCGCAGCAGCGGACGTGGACGGCGCCACGCTGGCCCGCTGGACCTGGAGAAGAAAG
GTGGAGTCGCTGCTGGACGAGCTGGCCTTCGTACGCCAGTGCACGACCAGGAGGTAGCCG
AGCTGCTGCCACGCTGCAGGCGTCTTCCCAGCCGCGGCAATGGGACCTTAACTGTGG
CTAAACCAG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032727 unedited GCACGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGTGAGATTCGTGTGACTT TTAATTTATTATGTTACTAATGTCTTACAGTAAGTGTGAGGAGTAAAGACAGGGATGGGG TAAAGGTAAGGAAAAGTATTTTTCAAGTTCCTTGAAGTATTGAAGCATGTGCTAGGATAA GAAAGTTCAGTAAAAGCATCATGTCCTTATCACCAGAGCTCTTAAAGGAGACATGGAACA GAGACGGGGCAACTCTTCAGCTCTGGCCGAAGTACTGCTGGACAGAGAACAATCCTGC ATCAGCCTTGGCACACATGAAAGACTGGGCAATGCAGATGCTACACAGTTGGGCAGATGA AGAGTGACTGTCCAGAATCTACTTCTAGCAAGCGAGTAGGCGCATGCACACCCCTTCTC TGGTCTGAGTGTCTTCTCTCCGGCAGGACCCACCAACTGTGCAGCCATGGGGTAAG TGTTAGGGAAGTCTTTAGAAAAGAGAAAAGATGTCTTTCTTATATACGCTGGTAGTGT TGATTGACCAGAAGTGGTTTCTTTACTTTGGGGCGGTAGCATTGTGTTCTGGTGACAAA ATATCCTACACTTAGCACTCGTAAAAGGCATANGAGAGTAAAAGCAACGCCTCTTTATGA CCTATGCTAGTGGGAAGGGGAATACGTGGATTCTAAGGGTAAGGNGATGAAAAAGCTAAT TCTATATCACCACAAATGAACTGACACATAAATGACACCTTAGGCTTTTCCACTCATAG AAACACTCACTTCTAGCTTACACTACTNAATCTAAGGTTCGGCTCATCACAGTTTGGGA TATTTACTGTGCTNCTAAAGTAAAGTAAAAGCTACATCTTAATAGTTCTTCTAATAATA GATTGNGTAGCTGAAGCCTAAGCTAGGATCTTGCATATTATATGTGGGAACCTAAATCT A
Restriction Sites:	NotI-NotI
ACCN:	NM_032727
Insert Size:	3750 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:	<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:	<u>NM_032727.2</u> , <u>NP_116116.1</u>
RefSeq Size:	3243 bp
RefSeq ORF:	1500 bp
Locus ID:	9118
UniProt ID:	<u>Q16352</u>
Cytogenetics:	10q24.33
Domains:	filament, filament_head

Gene Summary:

Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene is a member of the intermediate filament family and is involved in the morphogenesis of neurons. [provided by RefSeq, Jun 2009]