

Product datasheet for **SC116004**

Neuroglycan C (CSPG5) (NM_006574) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroglycan C (CSPG5) (NM_006574) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuroglycan C
Synonyms:	NGC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116004 sequence for NM_006574 edited (data generated by NextGen Sequencing)

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ATGGGGCGAGCCGGGGCGGGGCCCCGGGCCGGGGCCGCCACTGCTGCTGTTTCTG
GGGGCCGCGTGGTCTTGGCCTCTGGGGCCGTGCCGGCGCGTGAGGCGGGCAGCGCGTT
GAGGCCGAAGAGCTGGTGAAGGGCAGCCCGCGTGGGAGCCGCTGCCAACGACACGCGG
GAAGAAGCCGGCCACCAGCGGCTGGGGAAGATGAGGCGTCTGGACGGCCCGGTTGGC
GAGCTGGCCGGGCCAGAAGAGGTGCTGCAGGAGTCCGCTGCGGTGACCCGGCACCCGCTGG
CTGGAAGCTGACAGCCCAGGCCTGGGAGGAGTGACCGCAGAGGGCGGCAGCGCGATGCC
CAGGCCCTTCCAGCTACGCTCCAGGCTCCCCACGAGGTCCTCGGGCAGTCAATCATGCC
CCTGCCATTCTGAGGCTACAGAGGCCAGCGGGCCACCCTCCCCACCCCGGGGACAAG
CTGAGCCAGCTTCTGAACTCCCAAGGAGAGCCCTTGGAGGTTTGGCTGAACCTGGGG
GGCAGCACACCCGACCCTCAAGGGCCAGAGCTGACTTACCATTTCAGGGCACCTGGAG
CCCCAACCGGCATCAGATATCATTGACATCGACTACTTCGAAGGACTGGATGGTGAGGT
CGTGGCGCAGATCTGGGAGCTTCCAGGGTACCAGGAACCTCAGAGAACCACCCTGAT
ACTGAGGGAGAGACCCCTTCTGGAGCCTGCTTGACTTATACGATGATTTACCCCTTC
GATGAATCTGATTTCTACCCACCACATCTTTTATGATGACTTGGATGAAGAGGAGGAG
GAAGAGGAGGATGACAAAGATGCAGTAGGAGGTGGAGACCTAGAAGATGAAAATGAGCTT
CTAGTGCCCACTGGGAAGCCTGGTCTGGGGCCGGGACAGGCCAGCCACCAGTCGGTGG
CATGCTGTCCCTCCACAGCACACTCTGGGGTCGGTCCCCGGCAGCAGCATCGCCCTCAGG
CCCCGCCAGGAGAGCCAGGCAGGGACTTGGCCTCCAGTAAAATGGCACTGAGTGCCGC
AGTGGCTTTGTGCGGCATAACGGCTCCTGCCGGTCAGTGTGCGACCTCTTCCAAGTTAC
TGTCACAATGGCGGCCAGTGCTACCTGGTGGAGAACATAGGGGCTTCTGCAGGTGCAAC
ACGCAGGACTACATCTGGCACAAGGGGATGCGCTGCGAGTCCATCATACCCGACTTCCAG
GTGATGTGCGTGGCCGTGGGCTCGGCTGCCCTCGTCTGCTCCTGCTTTCATGATGACG
GTGTTCTTTGCCAAGAAGCTCTACCTGCTCAAGACGGAGAATACCAAGCTGCGTAGGACC
AACAAATTCCGGACCCCATCTGAGCTCCACAATGATAACTTCTCCCTCTCCACCATTGCC
GAGGGCTCTACCCAAATGATGATCCTAGTGCTCCCCACAAAATCCAGGAGGTTCTCAAG
TCCTGCCTGAAAGAGGAGGAGTCAATTAACATCCAGAACTCCATGTGCCCAAACCTTGAG
GGTGGCAAAGGTGACCAGGCTGACTTGGATGTGAACTGTCTTCAGAATAATTTAACCTAA
    
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Clone variation with respect to NM_006574.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_006574 unedited
AAGCGTTTCGATATATTTGTNAATACGAACNCACTATAGGGNCCGGCCGNAATTCGACA
CGAGGGGACAGCGGCGGACCGGCGGCGGCGGCGCATGCGGCTCCTCGCGCTGCCATCGT
GGGCTGAGGCGGCGCAGAACCGGCGGGAGGCGGCGGCGGCGGCGAGCCGAGGGCGCAG
CCAGCCGGGCGGACCCGCGGACAGCGGTGCGGGCGCCGCGCCATGGGGCGAGCCGGGGCG
GGGGCCCGGGCCGGGGCCGCCCACTGCTGCTTTCTGGGGCCGCGCTGGTCTGG
CCTCTGGGGCCGTGCCGGCGCGTGAGGCGGGCAGCGCGGTTGAGGCCGAAGAGCTGGTGA
AGGGCAGCCCGCGTGGGAGCCGCTGCCAACGACACGCGGGAAGAAGCCGGCCACCAG
CGGCTGGGAAGATGAGGCGTCTGGACGGCGCCCGTGGCGAGCTGGCCGGCCAGAAG
AGGTGCTGCAGGAGTCCGCTGCGGTGACCGGCACCGCCTGGTGGAAAGCTGACAGCCAG
GCCTGGGAGGAGTGACCCGAGAGCGGGCAGCGGCGATGCCAGGCCCTTCCAGTACGC
TCCAGGCTCCCCACGAGTCTCGGGCAGTCAATCATGCCCCCTGCCATTCTGAGGCTA
CAGAGGCCAGCGGCCACCCTCCCCACCCCGGCGACAAGCTGAGCCCAGCTTCTGAAC
TCCCCAAGGAGAGCCCTTGGAGTTTGGCTGAACCTGGGGGGCAGCACCCGACCCTC
AAGGGCCAGAGCTGACTTACCCATTTACAGGGCACCTGNAGCCCCAACCGGCATCAGATA
TCATTGACATCGACTACTTCAAAGACTGGATGGTGGGGTCTGGCGCANATCTGGGGA
GCTTCNNAGGTCACCAGAACCTCAGAGAACACCCTGATACTGAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006574 unedited AGCTCTGGACCGGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTAACTT TTTAAAAAGTTTTATTTCAAGAACTTTGTTTTTACTGGTATTTCAAAAAACGTGGGTC AAAGTACAAAAAAAGTCAGTTGAATAACAGCACAGGTTAGAAATCACAGCAGCAGAAG CAATGTACAGACAGCACAGAAAAACAACCAATGTATGCAATTCTGTTTCAGTTTCTTTG CTTATTTTAAGTATTTTTTTGCCTCCTGTACAAAATACATAAAAGCATGCCATGAGATC AGAAAAAGAAAAAGAGTTTAAACAAATGGTTACAAGAAATAGACTCTGTACAAGAGGAGATA ATGGTTTTCTTCCCTACCCCCACCCACTACCCCGCTTCTCTCTTCTTCTGCTCTGCTTT AGGTTAAATTATTCTGAAGACAGTTCACATCCAAGTCAGCCTGGTCACCTTTGCCACCT CAAGTTTGGGCGACATGGAGTTCTGGATGTTAAATGACTCCTCTCTTTCAGGCAGGACT TGAGAACCTCCTGGATTTGTGGGGAGCACTAGGATCATCATTTGGGTGAGAGCCCTCGG CAATGGTGAGAGGGAGAAGTTATCATTGTGGAGCTCAGATGGGTCCGGAATTTGTTGG TCCTACGCAGCTTGGTATTCTCCGTCTTGAGCAGGTAGAGCTTCTTGGCAAAGAACC TCATCATGAAGAGCAGGAGCAGGACGAGGGCAGCCGAGCCACGCCACGCACATCACCT GNAAGTCGTGATGATGGACTCGCAGCGCATCCCCTGTCCAGATGTAGTCTGCGTGNT GCACTGCAGAAGCCCTATGTCTNCACCAGTACACTGCCGNCATNGACAGTACTTGGNA AGAGTCGACACTGACCGNCAGAGCGTATGCCGACAAGCCATGCGGACTANTGCATTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_006574
Insert Size:	1950 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_006574.2</u> , <u>NP_006565.1</u>
RefSeq Size:	2005 bp
RefSeq ORF:	1620 bp
Locus ID:	10675
UniProt ID:	<u>O95196</u>
Cytogenetics:	3p21.31
Protein Families:	ES Cell Differentiation/IPS, Transmembrane

Gene Summary:

The protein encoded by this gene is a proteoglycan that may function as a neural growth and differentiation factor. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]

Transcript Variant: This variant (1) lacks an alternate in-frame segment compared to variant 3. The resulting isoform (1) has the same N- and C-termini but is shorter compared to isoform 3.