

Product datasheet for **RC234450**

Neuroglycan C (CSPG5) (NM_001206943) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroglycan C (CSPG5) (NM_001206943) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neuroglycan C
Synonyms:	NGC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234450 representing NM_001206943
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCAGCCGGGGCGGGGCCCGGGCCGGGGCCCGCCGACTGCTGCTGTTTCTGGGGCCGCGC
 TGGTCTGGCCTCTGGGGCCGTGCCGGCGGTGAGGCGGGCAGCGCGTTGAGGCCGAAGAGCTGGTGAA
 GGGCAGCCCGCGTGGGAGCCGCTGCCAACGACACGCGGAAGAAGCCGGCCACCAGCGGCTGGGAA
 GATGAGCGCTCGTGACGGCGCCCGGTGGCGAGCTGGCCGGCCAGAAGAGGTGCTGCAGGAGTCGGCTG
 CGGTGACCGGCACCGCTGGCTGGAAGCTGACAGCCAGGCTGGGAGGAGTGACCGCAGAGGGCGGCGAG
 CGGCGATGCCAGGCCCTCCAGCTACGCTCCAGGCTCCACAGAGTCTCGGGCAGTCAATCATGCCC
 CCTGCCATTCTGAGGCTACAGAGGCCAGCGGGCCACCCTCCCCACCCCGGCGACAAGCTGAGCCAG
 CTTCTGAACTCCCAAGGAGAGCCCTTGGAGTTTGGCTGAACCTGGGGGCAGCACACCCGACCTCA
 AGGGCCAGAGCTGACTTACCCATTTAGGGCACCTGGAGCCCCAACCGCATCAGATATCATTGACATC
 GACTACTTCGAAGGACTGGATGGTGAGGGTCGTGGCGCAGATCTGGGGAGCTTCCAGGGTCAACAGGAA
 CCTCAGAGAACCACCCTGATACTGAGGGAGAGACCCCTTCTGGAGCCTGCTTACTTATACGATGATT
 CACCCCTTCGATGAATCTGATTCTACCCACCACATCCTTTTATGATGACTTGGATGAAGAGGAGGAG
 GAAGAGGAGGATGACAAAGATGCAGTAGGAGGTGGAGACCTAGAAGATGAAAATGAGCTTCTAGTCCCA
 CTGGGAAGCCTGGTCTGGGGCCCGGACAGGCCAGCCACCAGTCGGTGGCATGCTGTCCCTCCACAGCA
 CACTCTGGGGTCGGTCCCGGCAGCAGCATCGCCCTCAGGCCCGCCAGGAGAGCCAGGCGAGGACTTG
 GCCTCCAGTAAAATGGCACTGAGTCCCGCAGTGGCTTGTGCGGCATAACGGCTCCTGCCGTCAGTGT
 GCGACCTTCCCAAGTTACTGTCACAATGGCGGCCAGTGTACTGTTGGAGAACATAGGGGCCCTCTG
 CAGGTGCAACACGACGAGACTACATCTGGACAAGGGGATGCGCTGCGAGTCCATCATACCGACTTCCAG
 GTGATGTGCGTGGCCGTGGGCTCGGCTGCCCTCGTCTGCTCCTGCTCTTATGATGACGGTGTCTTTG
 CCAAGAAGCTCTACTGCTCAAGACGGAGAATACCAAGCTGCGTAGGACCAACAAATTCGGACCCCATC
 TGAGCTCCACAATGATAACTTCTCCCTCTCCACCATTGCCGAGGGCTCTCACCAATGTAAGGAACTT
 TGCAACACTCCCGTACCTCCTCCCCCATGCCCGTGCCTTGGCTCACTATGATAACGTTATCTGTCAGG
 ATGATCCTAGTGTCCCCACAAATCCAGGAGTTCTCAAGTCTGCCTGAAAGAGGAGGAGTCAATTA
 CATCCAGAACTCCATGTCGCCAAACTGAGGGTGGCAAAGGTGACCAGGCTGACTTGGATGTAAGTGT
 CTCAGAATAATTAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234450 representing NM_001206943
 Red=Cloning site Green=Tags(s)

MGRAGGGPGRGPPPLLLFLGAALVLAGAVPAREAGSAVEAEELVKGSPAWEPPANDTREEAGPPAAGE
 DEASWTAPGGELAGPEEVLQESA AVTGTAWLEADSPGLGGVTAEGSGDAQALPATLQAPHEVLGQSIMP
 PAIPEATEASGPPSPTPGDKLSPASELPKESPLEVWLNLGGSTPDPQGPETYFPQGTLEPQPASDIIDI
 DYFEGLDGEGRGADLGSFPGSPGTSENHPDTEGETPSWSLLDLYDDFTPFDESDFYPTTSFYDDLDEEEE
 EEEDDKDAVGGGDELENELLVPTGKPLGPGTGQPTSRWHAVPPQHTLGSVPGSSIALRPRGEPGRDL
 ASSENGTECRSGFVRHNGSCRSVCDLFPSYCHNGGQCYLVENIGAFRCRCNTQDYIWHKGMRCESIIITDFQ
 VMCVAVGSAALVLLLLFMMTVFFAKKLYLLKTENTKLRRTNKFRTPSELHNDNFSLSTIAEGSHPNVRKL
 CNTPRTSSPHARALAHYDNVICQDDPSAPHKIQEVLSKSLKEEESFNIQNSMSPKLEGGKGDQADLDVNC
 LQNNLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001206943

ORF Size: 1698 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001206943.2](#)

RefSeq Size: 2256 bp

RefSeq ORF: 1701 bp

Locus ID: 10675

UniProt ID: [O95196](#)

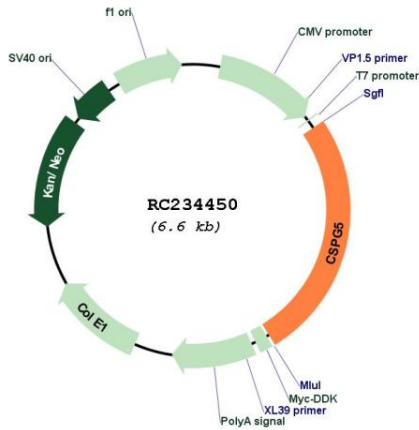
Cytogenetics: 3p21.31

Protein Families: ES Cell Differentiation/IPS, Transmembrane

MW: 60.5 kDa

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]

Product images:



Circular map for RC234450