

Product datasheet for **RG233984**

Neuroglycan C (CSPG5) (NM_001206942) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroglycan C (CSPG5) (NM_001206942) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Neuroglycan C
Synonyms:	NGC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233984 representing NM_001206942 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGCCATTCTGAGGCTACAGAGGCCAGCGGGCCACCCTCCCCACCCCGGCGACAAGCTGA
GCCAGCTTCTGAACTCCCCAAGGAGAGCCCTTGGAGGTTTGGCTGAACCTGGGGGCGAGCACACCCGA
CCCTCAAGGGCCAGAGCTGACTTACCCATTTAGGGCACCCCTGGAGCCCCAACCGGCATCAGATATCATT
GACATCGACTACTTGAAGGACTGGATGGTGGGGTCTGGCGCAGATCTGGGGAGCTTCCAGGGTCCAC
CAGGAACCTCAGAGAACCACCCTGATACTGAGGGAGAGACCCCTTCTGGAGCCTGCTTGACTTATACGA
TGATTTACCCCCCTTCGATGAATCTGATTTCTACCCACCACATCCTTTTATGATGACTTGGATGAAGAG
GAGGAGGAAGAGGAGGATGACAAAGATGCAAGTAGGAGGTGGAGACCTAGAAGATGAAATGAGCTTCTAG
TGCCCACTGGGAAGCCTGGTCTGGGGCCCGGGACAGGCCAGCCACCAGTCCGGTGGCATGCTGTCCCTCC
ACAGCACACTCTGGGTCGGTCCCCGGCAGCAGCATCGCCCTCAGGCCCGCCAGGAGAGCCAGGCAGG
GACTTGGCCTCCAGTGAAATGGCACTGAGTGCCGAGTGGCTTGTGCGGCATAACGGCTCCTGCCGT
CAGTGTGCGACCTTCCCAAGTTACTGTCACAATGGCGCCAGTGTACCTGGTGGAGAACATAGGGGC
TTCCAGGTGATGTGCGTGGCCGTGGCTCGGCTGCCCTCGTCTGCTCCTCATGATGACGGTGT
TCTTTGCCAAGAAGCTCTACCTGCTCAAGACGGAGAATACCAAGCTGCGTAGGACCAACAAATCCGGAC
CCCATCTGAGCTCCACAATGATAACTTCCCTCTCCACCATTGCCGAGGGCTCTCACCCAAATGATGAT
CCTAGTGTCCCCACAAAATCCAGGAGGTTCTCAAGTCTGCCTGAAAGAGGAGGAGTCATTTAACATCC
AGAACTCCATGTCGCCCAAACTTGGGGTGGCAAAGGTGACCAGGCTGACTTGGATGTGAACTGTCTTCA
GAATAATTTAACC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233984 representing NM_001206942
Red=Cloning site Green=Tags(s)

MPPAIPATEASGPPSPTPGDKLSPASELPKESPLEVWLNLLGGSTPDPQGPETYFPQGTLEPQPASDII
 DIDYFEGLDGEGRGADLGSFPGSPGTSENHPDTEGETPSWSLLDLYDDFTPFDESDFYPTTSFYDDLDEE
 EEEEEDDKDAVGGGDLEDENELLVPTGKPLGPGTGQPTSRWHAVPPQHTLGSVPGSSIALRPRGEPGR
 DLASSENGTECRSGFVRHNGSCRSVCDLFPYCHNGGQCYLENIGAFRCRNTQDYIWHKMRCESIITD
 FQVMCVAVGSAALVLLLLFMMTVFFAKKLYLLKTENTKLRRTNKFRTPSELHNDNFSLSTIAEGSHPND
 PSAPHKIQEVLKSCLKEEESFNIQNSMSPKLEGGKGDQADLDVNCLQNNLT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001206942

ORF Size: 1203 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_001206942.1](#), [NP_001193871.1](#)

RefSeq Size: 2253 bp

RefSeq ORF: 1206 bp

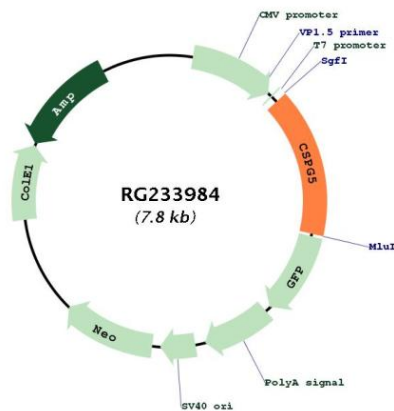
Locus ID: 10675

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]

Product images:



Circular map for RG233984