

## Product datasheet for **MG219141**

### **Cspg5 (NM\_001166273) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cspg5 (NM_001166273) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cspg5
Synonyms:	CAL; Caleb; NG; Ngc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MG219141 representing NM\_001166273  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCCGAGCTGGAGGCGGGGCCCGACTGGGGCCGCGCCAGTGTCTGCTTCTGGGGTACGCG  
 TGGTGCTCACCGCTGGGGCCGTACCGGCACGGGAAACAGGCAGTGCATCGAGGCTGAAGAGCTGGTGAG  
 GAGCAGCCTGGCATGGGAGTCCGCTGCCAATGACACGCGGGAGGAAGCCGGCCTGCCAGCAGCTGGGAA  
 GATGAGACCTCGTGGACAGAGCGGGCAGTGAGATGGCTGCGGTGGGCCCTGGGTGGGCGCAGAGGAGG  
 CACTAGAGGCATCGGCTGCAGTACTGGCACTGCCTGGCTAGAGGCAGATGGCCAGGCCTGGGTGGAGT  
 GACTGCAGAGGCTGGCAGTGGCAGCGCCAGACCCTCCAGCTACGCTCCAGGCTCCTGATGAGGCCCTT  
 GGGTCACTACAATGCCCTGCCATCCCTGAGGCTACTGAAACCAGTGGACCTCCCTCCCTGCTGTCC  
 ATGATAAGCCTAGTGTAGGCCCTGAACTCCCTAAAGAGATCCCTTGGAGTTCCGGTGAACCTGGGAGG  
 CAGCACACCAGAGCCACTTTTCCCTTACAGGCACTCTCGAGACCAACCAGCCTCAGATATAATTGAC  
 ATTGATTACTTTGAAGGATTGGATAGTGAGGGTGGTGGTGCAGACATGGGCAGCTTCCCGGGTCAACAG  
 GAACCTCAGAAAATCACCTGATACCGAAGGAGAGACCCCTTCCCTGGAGCCTGCTTGATTGTATGATGA  
 CTTACCCCTTTTGTAGTCTGATTTCTACCCACCACATCCTTCTATGATGATTTGGAAGAGGAGGAA  
 GAAGAGGAGGAGGATAAGGATACAGTAGGAGGTGGAGACCTGGAAGATGAAAACGACCTTCTCCTGCCCT  
 CTCAAAGCCTGGTGTGGGGCCTGGGACAGGACAGCCACCAACCGGTGGCATGCTGTTCCCCACAGCA  
 TACTCTGGGGATGGTACCTGGCAGCAGCATCTCTTAGGCCCGCCCGGAGATCCAGGCAAGGACCTG  
 GCCTCAGGAGAAAATGGCACAGAGTCCGAGTTGGCTTCGTGAGGACAATGGCTCCTGCCGTCAGTCT  
 GTGACCTTTCCGAGTTACTGTCACAACGGCGCCAGTGTACTGGTGGAGAACATAGGGGCTTTCTG  
 CAGGTGTAACACCCAGGACTACATCTGGCACAAGGGGATGCGCTGTGAGTCCATCATCACGGACTTCCAG  
 GTGATGTGCGTGGCCGTTGGCTCGGCTGCTCTCGTCTTCTCCTGTTGATGACTGTGTTCTTTG  
 CCAAGAAGCTCTATCTGCTCAAGACTGAGAATACCAAGCTGCGGAGGACCAATAAATTCGGACCCCATC  
 TGAGCTCCACAACGACAATTCTCCCTCTCCACATTGCCGAGGGCTCTCATCAAATGTAAGGAAATTT  
 TGCGACTCCCGTGTCTCCTCCCCCATGCCGTCCTTGGCTCACTATGATAACATTGTCTGCAGG  
 ACGACCCAGCGTCCCCACAAAATCCAGGACCTCTCAAGTCCCGCCTGAAGGAGGAAGAGTCTTTAA  
 CATCCAGAACTCCATGTACCCAAAATTGAGGGTGGCAAAGGTGACCAGGATGACTTGGGGTGAACGT  
 CTGCAGAATAACCTAAC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG219141 representing NM\_001166273  
 Red=Cloning site Green=Tags(s)

MGRAGGGPDWGGPPVLLLLGVTLVLTAGAVPARETGSATIEAEELVRSLLAWESRANDTREEAGLPAAGE  
 DETSWTERGSEMAAVGPGVGPPEALEASAAYTGTAWLEADGPGLGGVTAEAGSGDAQTLPATLQAPDEAL  
 GSSTMPPIPEATETSGPPSPAVHDKPSVGPPELPEIPLVRLNLGGSTPEPTFPLQGTLETQPASDIID  
 IDYFEGLDSEGRGADMGSFPGSPGTSENHPDTEGETPSWSLLDL YDDFTPFDESDFYPTTSFYDDLEEEE  
 EEEEDKDTVGGDLEENDLLLPSQKPGVPGTGQPTNRWHAVPPQHTLGMVPGSSI SLRPRPGDPGKDL  
 ASGENGTECRVGFVRHNGSCRSVCDLFP SYCHNGGQCYL VENIGAFRCRCNTQDYIWHKGMRCESIIITDFQ  
 VMCVAVGSAALVLLLLFMMTVFFAKKL YLLKTENTKLRRTNKFRTPSELHNDNFSLSTIAEGSHPNVRKF  
 CDTPRVSSPHARALAHYDNIVCQDDPSAPHKIQDPLKSRLLKEEESFNIQNSMSPKLEGGKGDQDDLGVNC  
 LQNNLT

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001166273

ORF Size: 1698 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001166273.1](#), [NP\\_001159745.1](#)

RefSeq Size: 3881 bp

RefSeq ORF: 1701 bp

Locus ID: 29873

UniProt ID: [Q71M36](#)

Cytogenetics: 9 F2

**Gene Summary:** This gene encodes a chondroitin sulfate proteoglycan. The encoded protein has been termed a 'part-time' proteoglycan, as chondroitin sulfate chains appear to be attached to the protein in the developing but not the adult cerebellum and retina. It is thought that this protein plays roles in dendrite branching and synapse formation. [provided by RefSeq, Oct 2009]