

Product datasheet for **MC219066**

Cspg5 (NM_001166273) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC219066 representing NM_001166273
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCGAGCTGGAGGCGGGGCCCGGACTGGGGCCGCGCCAGTGTCTGCTTCTGGGGTACGC
 TGGTGCTCACCGCTGGGGCCGTACCGGCACGGGAAACAGGCAGTGCATCGAGGCTGAAGAGCTGGTGAG
 GAGCAGCCTGGCATGGGAGTCGCGTGCCAAATGACACGCGGGAGGAAGCCGGCCTGCCAGCAGCTGGGAA
 GATGAGACCTCGTGGACAGAGCGGGCAGTGAGATGGCTGCGGTGGGCCCTGGGGTGGGCCAGAGGAGG
 CACTAGAGGCATCGGCTGCAGTGACTGGCACTGCCTGGCTAGAGGCAGATGGCCAGGCCTGGGTGGAGT
 GACTGCAGAGGCTGGCAGTGGCAGCGCCAGACCCTTCCAGCTACGCTCCAGGCTCCTGATGAGGCCCTT
 GGGTCACTACAATGCCCCCTGCCATCCCTGAGGCTACTGAAACCAGTGGACCTCCCTCCCTGCTGTCC
 ATGATAAGCCTAGTGTAGGCCCTGAACTCCCTAAAGAGATCCCTTGGAGTTCCGGTGAACCTGGGAGG
 CAGCACACCAGAGCCCACTTTTCCCTTCCAGGCACTCTCGAGACCAACCAGCCTCAGATAAATTGAC
 ATTGATTACTTTGAAGGATTGGATAGTGAGGGTGGTGGTGCAGACATGGGCAGCTTCCCGGGGTACCCAG
 GAACCTCAGAAAATCACCTGATACCGAAGGAGAGACCCCTTCCCTGGAGCCTGCTTGATTGTATGATGA
 CTTACCCCTTTTGTAGTCTGATTTCTACCCACCACATCCTTCTATGATGATTTGGAAGAGGAGGAA
 GAAGAGGAGGAGGATAAGGATACAGTAGGAGGTGGAGACCTGGAAGATGAAAACGACCTTCTCCTGCCCT
 CTCAAAGCCTGGTGTGGGGCCTGGGACAGGACAGCCACCAACCGGTGGCATGCTGTTCCCCACAGCA
 TACTCTGGGGATGGTACCTGGCAGCAGCATCTCTTAGGCCCGCCCGGAGATCCAGGCAAGGACCTG
 GCCTCAGGAGAAAATGGCACAGAGTGCCGAGTTGGCTTCGTGAGGACAATGGCTCCTGCCGTCAGTCT
 GTGACCTTTCCGAGTTACTGTCACAACGGCGGCCAGTGTACTGTTGGGAGAACATAGGGGCTTTCTG
 CAGGTGTAACACCCAGGACTACATCTGGCACAAGGGGATGCGCTGTGAGTCCATCATCACGACTTCCAG
 GTGATGTGCGTGGCCGTTGGCTCGGCTGCTCTCGTCTTCTCCTGTTGATGACTGTGTTCTTTG
 CCAAGAAGCTCTATCTGCTCAAGACTGAGAATACCAAGCTGCGGAGGACCAATAAATTCGGACCCCATC
 TGAGCTCCACAACGACAATTCTCCCTCTCCACATTGCCGAGGGCTCTCATCAAATGTAAGGAAATTT
 TGCGACTCCCCGTGTCTCCTCCCCCATGCCCGTGCCTTGGCTCACTATGATAACATTGTCTGCAGG
 ACGACCCAGCGTCCCCACAAAATCCAGGACCCTCTCAAGTCCCGCCTGAAGGAGGAAGAGTCTTTAA
 CATCCAGAACTCCATGTACCCAAAATTGAGGGTGGCAAAGGTGACCAGGATGACTTGGGGTGAACGT
 CTGCAGAATAACCTAACCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001166273

Insert Size: 1701 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:

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]
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a longer protein (isoform b), compared to isoform a. Isoform b is also known as NGC-III and mCALEBb. Variant 2 contains an in-frame start site 223 codons upstream from the currently annotated site, but Kozak sequence and signal peptide considerations support use of the downstream AUG.