

Product datasheet for **MR219141**

Cspg5 (NM_001166273) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cspg5 (NM_001166273) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR219141 representing NM_001166273
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCGAGCTGGAGGCGGGGCCCGGACTGGGGCCGCGCCAGTGTCTGCTTCTGGGGTACGC
 TGGTGCTCACCGCTGGGGCCGTACCGGCACGGGAAACAGGCAGTGCATCGAGGCTGAAGAGCTGGTGAG
 GAGCAGCCTGGCATGGGAGTCGCGTGCCAAATGACACGCGGGAGGAAGCCGGCCTGCCAGCAGCTGGGAA
 GATGAGACCTCGTGGACAGAGCGGGCAGTGAGATGGCTGCGGTGGGCCCTGGGGTGGGCCAGAGGAGG
 CACTAGAGGCATCGGCTGCAGTGACTGGCACTGCCTGGCTAGAGGCAGATGGCCAGGCCTGGGTGGAGT
 GACTGCAGAGGCTGGCAGTGGCAGCGCCAGACCCTTCCAGCTACGCTCCAGGCTCCTGATGAGGCCCTT
 GGGTCACTACAATGCCCCCTGCCATCCCTGAGGCTACTGAAACCAGTGGACCTCCCTCCCTGCTGTCC
 ATGATAAGCCTAGTGTAGGCCCTGAACTCCCTAAAGAGATCCCTTGGAGTTCCGGTGAACCTGGGAGG
 CAGCACACCAGAGCCCACTTTTCCCTTACAGGCACTCTCGAGACCAACCAGCCTCAGATAAATTGAC
 ATTGATTACTTTGAAGGATTGGATAGTGAGGGTGGTGGTGCAGACATGGGCAGCTTCCCGGGGTACCCAG
 GAACCTCAGAAAATCACCTGATACCGAAGGAGAGACCCCTTCCCTGGAGCCTGCTTGATTGTATGATGA
 CTTACCCCTTTTGTAGTCTGATTTCTACCCACCACATCCTTCTATGATGATTTGGAAGAGGAGGAA
 GAAGAGGAGGAGGATAAGGATACAGTAGGAGGTGGAGACCTGGAAGATGAAAACGACCTTCTCCTGCCCT
 CTCAAAGCCTGGTGTGGGGCCTGGGACAGGACAGCCACCAACCGGTGGCATGCTGTTCCCCACAGCA
 TACTCTGGGGATGGTACCTGGCAGCAGCATCTCTTAGGCCCGCCCGGAGATCCAGGCAAGGACCTG
 GCCTCAGGAGAAAATGGCACAGAGTCCGAGTTGGCTTCGTGAGCACAATGGCTCCTGCCGTCAGTCT
 GTGACCTTTCCGAGTTACTGTCAACGCGCGCCAGTGTACTGTTGGGAGAACATAGGGGCTTTCTG
 CAGGTGTAACACCCAGGACTACATCTGGCAACAAGGGGATGCGCTGTGAGTCCATCATCACGGACTCCAG
 GTGATGTGCGTGGCCGTTGGCTCGGCTGCTCTCGTCTTCTCCTGTTGATGACTGTGTTCTTTG
 CCAAGAAGCTCTATCTGCTCAAGACTGAGAATACCAAGCTGCGGAGGACCAATAAATTCGGACCCCATC
 TGAGCTCCACAACGACAATTCTCCCTCTCCACATTGCCGAGGGCTCTCATCAAATGTAAGGAAATTT
 TGCGACTCCCCGTGTCTCCTCCCCCATGCCCGTGCCTTGGCTCACTATGATAACATTGTCTGCAGG
 ACGACCCAGCGTCCCCACAAAATCCAGGACCTCTCAAGTCCCGCCTGAAGGAGGAAGAGTCTTTAA
 CATCCAGAACTCCATGTACCCAAACTGAGGGTGGCAAAGGTGACCAGGATGACTTGGGGTGAAGTGT
 CTGCAGAATAACCTAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219141 representing NM_001166273
 Red=Cloning site Green=Tags(s)

MGRAGGGPDWGGPPVLLLLLVTLVLTAGAVPARETGSATIEAELVRSSLAWESRANDTREEAGLPAAGE
 DETSWTERGSEMAAVPGVGPPEALEASAAVTGTAWLEADGPGGGVTAEGSGDAQTLPATLQAPDEAL
 GSSTMPPAIPEATETSGPPSPAVHDKPSVGPPELPEIPLVRLNLGGSTPEPTFPLQGTLETQPASDIID
 IDYFEGLDSEGRGADMGSFPGSPGTSENHPDTEGETPSWSLLDL YDDFTPFDESDFYPTTSFYDDL EEEE
 EEEEDKDTVGGDLEDENDLLLPSQKPGVPGTGQPTNRWHAVPPQHTLGMVPGSSISLRPRPGDPKDL
 ASGENGTECRVGFVRHNGSCRSDLFPSYCHNGGQCYL VENIGAFRCRCNTQDYIWHKGMRCESIIITDFQ
 VMCVAVGSAALVLLLLFMMTVFFAKKLYLLKTENTKLRRTNKFRTPSELHNDNFSLSSTIAEGSHPNVRKF
 CDTPRVSSPHARALAHYDNIVCQDDPSAPHKIQDPLKSRLEEESFNIQNSMSPKLEGGKGDQDDLGVNC
 LQNNLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

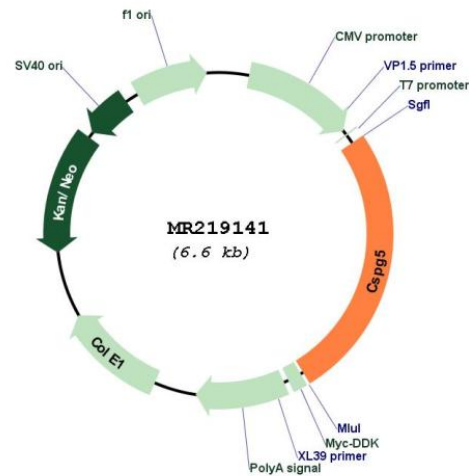
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001166273

ORF Size: 1698 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_001166273.1, NP_001159745.1</p>
RefSeq Size:	<p>3881 bp</p>
RefSeq ORF:	<p>1701 bp</p>
Locus ID:	<p>29873</p>
UniProt ID:	<p>Q71M36</p>
Cytogenetics:	<p>9 F2</p>
MW:	<p>60.9 kDa</p>
Gene Summary:	<p>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]</p>