

Product datasheet for MC225277

Cspg4 (NM_139001) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cspg4 (NM_139001) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cspg4
Synonyms: 4732461B14Rik; AN2; NG2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225277 representing NM_139001
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGATCGC

ATGCTTCTCGGCCGGGACACCCGCTGTGAGCTCCAGCCCTGGCCTTGGCTCTTACCTTGGCCTTGTGG
 TCAGATCTACAGCTCCTGCCTCCTTCTCGGGGAGAACCACCTGGAGGTGCCCTGACCTCTGAC
 CAGAGTAGACCTGCTGCTCCAGTCTCCACATCCAGCCCGAAGCCCTGCTCCTTGGCAGCAGGCCAA
 GATGACCATCTTTGCTCCAGCTCCACTCAGGATGCCTCCAGGTGAGACTTGGCCTGGGACAGAAGGAGC
 TAAAGTGCAGACGCCAGCAGACACCGTGTGAGTGACTTGGCCCCCACTGTAGTGCTCACTGTCTC
 CGACAGCTGGGCTGTGCTGTCTGTTGACGGAGTGTGAACACCTCTGCTCCCATCCCAAGAGCATCCAC
 CTCAAGGCCACCTACGGGCTCTTCGTGGGCTCCTCGGAAGCCTTGACCTGCCTTACCTGAAGGGAATCA
 GCCGACCCCTAAGGGGCTGCCTCCACTCAGCCATTCTCAATGGCCGAACCTCCTCCGTCCGCTGACCTC
 CGATGTTTCAAGGTTGTGCTGAAGAATTCTCTGCTGGTGATGAAGTGGGCTGGGCTTCTCTGGGCC
 CACTCACTGGCTGCCTCCCTGCCTGGAGCACTCGGGAGGAAGGCACCCCTGGAGTTTACGCTCACCAC
 GGAGTCAGCAAGCACCCCTGGCCTTCCAAGCAGGGGACAAGCGTGGCAACTTTATCTACGTGGCATATT
 TGAGGGCACTTGCAGGCTGTGTTGAGAAAGGCAAGGTACCATGCTACTCCGCAACAGCGTGCCTGTG
 GCTGATGGGCAGCCCCACGAGGTGAGCGTACACATAGATGTTACCGGCTGGAAATCTCTGTAGACCAAT
 ACCCTACGCTACTTTCAACCGTGGGCTCCTCAGCTACCTGGAGCCACGTGGCAGTCTCCTCCTTGGGG
 TCTGGACACAGAAGCCTCTCGCCACCTCCAAGAGCACCCTGAGGCTGGCACCAGGGGCTGCCAATATC
 TCCCTGGTAGGCTGCATAGAAGATTTCAAGTGTAAATGGCAGGAGGCAGGGCTCCGGGATGCCTGGCTGA
 CCCGTGACATGTGAGCAGGATGCAGGCTGAGGAGGATGAATATGAAGAAGAGGTCTATGGCCATATGA
 AACTTTCTCCACCCTGGCACCAGAAGCTTGGCCAGCCATGGAAGTCCAGAGCCATGATTCTGAGCCG
 GGACTGCCTGCTGCTTTGCAAACCTTCAACAGCTGCTTACCATCAGCCCTGGTGGTGGCCGAGGGTG
 GCACGGCTGGCTTGAAGTGGCGGCACGTGACGCCACCCCTGGACTGACAGAGGCAGAGCTGCGCAAGTC
 CCAGGTGCTGTTGAGCGTGAAGCAGAGTGCACGACATGGTGGAGCTAGACATCCTGGGAGCCAA
 ACCCGGAAATGTTTACCTGTTGGACGTGGTGAACCGTAAGGCCCGCTTGTTCACGATGGCTCTGAAG



[View online >](#)

ACACCTTGACCAGCTGATGCTGGAGGTGTCTGTGACTGCTCGGGCACCTGTGCCCTCTGCCTGCGGAG
GGGCAAATTTACATCTGCCCATCCAGGTCAATCCTGTCAACGATCCACCTCGCATCATCTTCCCCAC
GGCAGCCTCATGGTGATCCTGGAACACACAGAAGCCTCTGGGACCGGAGATTTCCAGGCCTACGACC
CGGACTCTGCCTGTGAGGGTCTCACCTCCAGCTCCTTGGCGTCTCCTCTGGTGTCCCTGTGGAACACCG
AGACCAGCCAGGAGAGCCAGCAACTGAGTTTTCTGTGCGGAAGTGGAGGTGGGCGACATAGTCTATGTC
CACCGTGGTGGCCTGCACAGGACCTAACATTCGGGTGAGTGGGATGCAGGCCAGTGTCCAGCGA
CACTGAAGGTAGTGGCCGTCCGGCCAGCCATACAGATCCTCCACAACAGGGCTGCACCTGGCCAGGG
CTCTGCCGACGCATCTTGCCTGCCAACCTGTCAAGTAGAAACGAACGCGGTGGGACAGGATGTGAGCGTG
CTGTTCCGAGTCACTGGTACCTTGAATTCGGGGAGCTGCAGAAGCAGGGGGCCGAGGGGTGAGGGCA
CCGAGTGGTGGGACACTGGCCTTCCACCAGCGCATGTGGAGCAAGGCCGAGTGGAGTACCTGAGCAC
TGACCCACAGCACACCCAAAGACACAGTGGAGGACCTGATCTTAGAGGTGCAGGTGGCCAGGAGACA
CTGAGCAATCTGTCTTCCAGTGACCATCCAGAGGGCCACAGTATGGATGCTGAGGCTTGAACCTCTGC
ATACACAGAACCCTCATCAGGAGACCCTCACCCAGCCACCTAGAGGCATCCCTGGAGGAAGAGGAGGA
AGAGGGAAGCCACAACCTCATACCTTCCACTATGAGTTGGTTCAGGCCCCAGAAAGAGGCAACCTCCTG
CTTCAGGGTACAAGGCTGTGACGCGGAGAGCTTCAGCCAGAGTGCACCTGCAGGCCGGTGGGTGACCT
ACAGGGCCACAATGCGGACCTCTGAGGACGCGATGACTCCTTCCGTTTCCGGGTGACATCCCCACCCCA
TTTCTCCCCGCTCTACACATTCCCCATCCACATTGGTGGTGAACCAATGCTCCCGTCTCACTAACGTC
CTTCTCATGGTCCCCGAGGGAGGGGAGGGCGTGTCTGTGCCACACCTCTTCGTCAAGAGTCTCAACA
GCGCCAGCTATCTCTATGAGGTGATGGAGCAGCCTCACCATGGCAAGTTGGCTTGGAGGGACCCAAAGGG
GAAGTCCACCCAGTGCATCCTTCACTAATGAGGACCTACTTCATGGCCGACTGGTCTACCAGCACGAT
GACTCTGAGACCATAGAGGATGATATCCCGTTTGTGGCCACACGCCAGGGAGAGGGCAGTGGTGCATGG
CCTGGGAGGAGTGGTGGTGTCTTCCAGTGGCCATCCAGCCTGTGAATGACCACGCCCTGTGCAGAC
CATTAGCCGTCTTCCAGTGGCCCGGGTGGACAGCAGTGTGACTACAGATGATAGCTTACGCTTACG
GATGATTCAGGGTTCAGTGTGCGCAACTGGTGTGACTACCCGCAAGGACCTCCTCTTGGCAGCATTG
TGGCTATGGAGGAGCCACGAGGCCATCTACCGTTCACCAAGAGGATCTCAGGAAGAAGCAAGTCTT
GTTTGTGCACTCGGGGGCCGACCAGGCTGGCTCCAGCTGCAGGTGTCTGATGGGACGACCCAGGCTACT
GCCATGCTGGAGTCCAAGCCTCAGAACCCTATCTTACGTAGCCAATAGTTCTAGTCTCGTGGTTCCTC
AAGGAGGCCAGGGACCATGACACTGTGTCTCCAGCTGGACCAACCTGGACATACGAAGTGGAAA
TGAGGTCCACTACCATGTAACCGCTGGTCTCAGTGGGGCAGCTGCTCCGGGATGGCCAGTCACTCACC
TCCTTCTCCCAACGGGACTTGTCTGATGGGCCATCCTCTACAGCCACAATGGCAGCCTCAGCCCCAAG
ACACCTGGCGTTTTCTGTGGCAGCAGGGCCAGTACACACTAACACCTTCTACAAGTGACCATTGCCT
CGAGGGTCCCCTGGCCCCACTGCAACTGGTGCAGCACAAAAGATCTACGTCTTCCAGGGGGAAGCGGCT
GAGATCAGAAGGGACAGCTAGAGGTGGTCCAGGAGGAGTGTGCTGCTGCCGACATCATGTTCTCGTTGA
GAAGCCCCCGAACGCCGGCTACCTGGTGTGTTGTTCCACGGCGCTTCAAGCAGAGGAGCCGCCAGCCT
GGACCTGTGCAGAGTCTTCCAGGAGGACAGTGAATTCAGGCCGGGTTCTTACCTGCACTCTCGCCCT
GGAGCCTGGAGTGATTCTTCTCCCTGGATGTGGCCTCGGGCTGGGTGATCCTCTTGAAGGCATCTCTG
TGGAGCTGGAGGTGCTGCCACAGTCACTCCCTGGATGTTCAAACTCAGCGTTCCCAGGGCCGGCAC
CCGACGCTGGCCCCCTCTGGTCCAGACTGTTGGCCTTACTTCCCACGCTGCCAGGCCCTTGTCTG
CAGGTGCTAGAGCCACCGCAGCACGGGGCCCTGCAGAAGGAGGATCATTCTCAAGATGGGAGCCTCAGCA
CCTTCTCCTGGAGAGAGTGGAAAGAGCAGCTGATCCGCTACGTGATGATGGAAGTGGACACAGACAGA
CGCCTTTGTTCTGCTAGCTAATGCCTCAGAGATGGACCGCCAGAGCCAGCCGTTGGCCTTACAGTACCC
ATCCTTCTGTTAATGACCAACCCCTGTTCTCACCACAAACACAGGCCTGCAAACTGGGAGGGGGCCA
TTGTGCCCATCCCTCCTGAGGCCCTCAGGGGAACAGACAATGATTCGGGCCAGAAAGACTTGGTCTACAC
CATCGAGCAGCCAGCAACGGACGGATCGCCTTGGAGGTGGCACCAGACACCGAGGTCCACCGCTTACA
CAGGCCAGCTGGACAGTGGCTTGTGCTGTTCTCACACAGAGGAGCCCTGGAAGGAGGCTTCCACTTCG
ACCTCTGACGGCGCACACTTCTCCTGGACATTTCTCCAGTGGTGGCCAGAAGCAGGCACTCCT
CTCCTTGGAGGGCACCCGAAGTTGACCGTCTGTCCAGAGTCTGTGCAGCGCTCAGCAGCCAGAGCCTG
AGCGCCAGTTCAGCACAGGCGCTGACCTCGTCACTGCTCTACCGGTGGTAAGAGGCCCCAGCTTG
GCCGACTCCTCCATGCCAGCAAGGAAGTGCAGAGGAGTCTTGGTGAACCTCACCCAGGCTGAGGTAAG
TGCTGGGAATATTCTGTATGAGCACGAGATGCTCTGAGCCCTCTGGGAAGCCATGACACCATCGGT
CTCCTACTGCTCTCACCACTGCCAGGGATCTGGCTGCCACCCTGGCCGTGATGGTGTCTTTCGATGCTG
CCTGTCCCAGCGCCAGCCGCTCTGGAAGAACAAGGTCTTGGTCCCCGAGGGCCAGCGGGCCAA

GATCACTGTGGCTGCCCTTGATGCCGCCAACCTCCTAGCCAGTGTGCCAGCATCTCAGCGCAGTCGGCAT
 GATGTA CTCTCCAGGTACACAGTTCCCCACCCGAGGCCAGCTCCTGGTGTCTGAGGAGCCACTCCATG
 CCAGGAGGCCCTACTTCTGCAATCTGAGCTGGCCGCGGGACAGCTGGTGTACGCCCATGGTGGTGGGG
 CACGCAGCAGGATGGCTTCCGCTCCGTGCCACCTCCAGGGACCGACGGGGACTTCTGTGGCAGGACCC
 CAGACCTCTGAGGCCTTGTATCACTGTGAGGGACGTGAATGAGCGGCCCTCAGCCACAGGCCTCCA
 TTCTCTCCGTGTACCAGGGGCTCACGAGCCCTGTATCTCGAGCCAGCTGAGTGTAGTCGACCCAGA
 GACAACACTGGACCTGTGACTCACTTACACAGGCTGATGTGGATGCAGGGCGACTGGCCTTCGTGGCAA
 ATGGGAGCAGTGTGGCCGGCTTCCAGTTGAGCATGTCTGATGGAGCCAGCCCCCATAACCCATGTC
 CCTGGCTGTGGATGTCTTGCCATCCACCATTGAGGTGCAGCTGCGTGCACCCCTGGAGGTGCCCAAGCT
 CTAGGACGTACCTCACTGAGCCGGCAGCAGCTTCAAGTTATTTCCGATCGTGAGGAACCAGATGTAGCTT
 ACCGCCTCACTCAGGGGCCCTGTATGGGCAGTACTAGTAGGGGGCAGCCTGCCTCCGCCTTCAGCCA
 GCTGCAGGTAGACCAGGGGGACGTGGTCTTTGTCTTACCAACTTCTCTCTCTCAGGATCACTTCAA
 GTTGTAGCTCTGGCCAGGGGTGTGAACGCATCAGCCACCGTAAATGTCACAGTGCAGGCTCTGTTGCATG
 TGTGGGCTGGTGGCCATGGCCTCAGGGTACCACCTGCGCCTTGACCCCACTGTCTCGATGCCAGTGA
 GCTGGCAACCCGACAGGCAGTATGCCCACTTCCGGCTCCTGGCAGGACCCCGCTATGGCCGTGTGGTC
 CGAGTGTCCCAAGGCCGAACAGAATCTAGGAGCAACCAACTTGTGGAACATTTCACTCAGCGGGACCTGG
 AAGAGGGACAGCTGGGGCTAGAGGTGGGCAAGCCAGAGGGCAGGTCCACTGGCCAGCAGGTGACAGACT
 TACTCTGGAGCTGTGGGCAAAGGGTGTCCACCTGCTGTGGCCTTGGTGGACTTTGCCACTGAGCCTTAC
 CATGCGGCCAAATCCTACAGTGTGGCCCTACTCAGTGTCCCTGAGGCTGTTCTGTACAGAAACAGAGAAAC
 CAGGAAGAAGCGTCCCACTGGCCAGCCAGGCCAGGCAGCATCCAGCCCCGTGCCACTGCGGCCAAAGG
 TGGTTTCTGGGCTTCTTAGAGGCCAACATGTTTCAGCATCATCATTCCGGTGTGCCTGATCTCTCTGCTC
 CTGGCCCTTATCTTGCCTTCTTACCTCCGCAAACGCAACAAGACGGGCAAGCAGCATGTCCAGG
 TGTTGACCGCAAACCCGCAATGGCCTAGCCGGTGACACAGAGACCTTTCGAAAGGTAGAGCCAGGCCA
 AGCTATTCCACTATACTGTGCCTGGCCAGGGGCCCCACCAGGAGGCCAGCCTGACCCAGA ACTATTG
 CAGTTTTGCCGGACACCAATCTGCCCTCAGGAATGGCCAGTACTGGGTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_139001
- Insert Size:** 6984 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_139001.2](#), [NP_620570.2](#)

RefSeq Size: 8050 bp

RefSeq ORF: 6984 bp

Locus ID: 121021

UniProt ID: [Q8VHY0](#)

Cytogenetics: 9 B

Gene Summary: Proteoglycan playing a role in cell proliferation and migration which stimulates endothelial cells motility during microvascular morphogenesis. May also inhibit neurite outgrowth and growth cone collapse during axon regeneration. Cell surface receptor for collagen alpha 2(VI) which may confer cells ability to migrate on that substrate. Binds through its extracellular N-terminus growth factors, extracellular matrix proteases modulating their activity. May regulate MMP16-dependent degradation and invasion of type I collagen participating in melanoma cells invasion properties. May modulate the plasminogen system by enhancing plasminogen activation and inhibiting angiostatin. Functions also as a signal transducing protein by binding through its cytoplasmic C-terminus scaffolding and signaling proteins. May promote retraction fiber formation and cell polarization through Rho GTPase activation. May stimulate alpha-4, beta-1 integrin-mediated adhesion and spreading by recruiting and activating a signaling cascade through CDC42, ACK1 and BCAR1. May activate FAK and ERK1/ERK2 signaling cascades.[UniProtKB/Swiss-Prot Function]