

Product datasheet for **MC224102**

Ncan (NM_007789) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ncan (NM_007789) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ncan
Synonyms: C230035B04; Cspg3; Cspg3-rs; Tgfbit
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224102 representing NM_007789
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGCGGATCTGTGTGGGCTCAGGCCTCCTGCTGTGGCTGCTTCTCCTAGTGGCTGGGGATC
 AGGACACACAGGACACCACCGCCACGAAAAGGGGCTTCGCATGCTGAAGTCAGGGTCAGGACCCGTCGC
 TGCTGCCCTGGCAGAGCTAGTGGCCTGCCCTGCTTCTTTACCCTGCAACCACGGCTAAGCTCCCTGCGA
 GACATTCCTCGGATCAAGTGGACTAAGGTTTCAGACTGCATCAGGCCAGCGACAGGATTTGCCAATCTTGG
 TGGCCAAAGACAACGTGGTGCCTGGCAAGGGCTGGCAGGGACGGGTGTCATTGCCTGCTTATCCCCG
 GCACAGAGCCAATGCTACCCTTCTGCTGGGGCCACTTCGAGCAAGCGACTCTGGGCTGTATCGTGCCAA
 GTGGTAAAGGGTATCGAAGATGAGCAGGACCTGGTAACCCTGGAAGTGACAGGGCTCGTGTTCATTATC
 GGGCGGCCCGGGACCGCTATGCGCTGACCTTCGCTGAGGCCAGGAGGCTTGTGCGCTAAGCTCTGCTAC
 CATCGCTGCCCCACGGCACCTGCAGGCTGCCTTTGAAGATGGCTTTGACAACGCGACGCGGGCTGGCTC
 TCAGACCGCACGGTTCGGTACCCGATCACTCAGTCGCGTCCTGGTTGCTATGGTGACCGCAGCAGTCTCC
 CGGGTGTTCGGAGCTACGGGAGACGCGACCCGACGGAACCTACGATGTCTACTGCTTTGCCCGGAGCT
 AGGGGGTGAAGTCTTTTACGTGGGCCCGCCCGCGACTGACCCTGGCGGGCGCGGGCACAAATGTCAG
 CGGCAGGGTGCAGCGCTGGCCTCGGTGGGGCAGTTGCACCTGGCCTGGCAGGAGGCTGGACAGTGGC
 ACCCGGGCTGGCTGGCAGACGGCAGCGTGCCTACCCCATCCAGACTCCGCGCCGGCGTTGCGGGGGCCC
 CGCCCCAGGTGTGCGCACTGTGTACCGCTTCGCCAACCAGCAGCGCTTTCTGCGCCAGGAGCAGCTTC
 GACGCTACTGCTCCGAGCTCATCACCATACAGCACAACATGGAGATTCTGAGATCCCCCTCATCTGGAG
 ATGAGGGGAGATTGTGTGAGCAGAGGGGCTCCAGGCCGAGAATAAGCCAGCTTGGGGGAACAGGA
 GGTGATAGCACCTGACTCCAGGAACCTCATGTCCAGTGGAGAAGCGAACCCCGACTTGACTTGG
 ACACAAGCACCTGAGGAGACCCTTGGTTCTACTCCAGGGGTCCCAGCTGGCCTCATGGCCCTCTTCAG
 AAAAGTGGCTCTTACGGGTGCCCAAGCTCCATGGGTGTCTCCAGTCCCAGCGACATGGGAGTAGATAT
 GGAAGCGACAACACCCTTGGGCACACAGGTAGCACCCACCCACCGATGAGGAGGGGCGCTTTAAGGG
 TTGAATGGTGCAGACTTCCAGCAGCAGGGCCAGAACCCAGCTGCCTGAGGTAGCAGAGCCAGTGGCC



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AGCCTCCCACCCTGGGAGCTACTGCCAACCACATGAGGCCTTCTGCAGCCACAGAGGCTTCAGAGAGTGA
 CCAGAGCCACAGTCTTTGGGCCATTCTGACCAACGAAGTGGATGAGCCAGGAGCAGGCTCTCTTGGCAGC
 AGGAGTCTCCCAGAGTCCCTGATGTGGTCCCCGTGTTGATCTCACCCAGTGTCCCAAGCACCGACAGTA
 CTCCTAGCGCGAAGCCAGGGGCAGCCGAGGCACCCAGTGTGAAGTCAGCCATCCCCACCTGCCCCGGCT
 GCCCTCAGAGCCCCCTGCTCCCTCTCCCGGGCCCTCAGAGGCCCTAAGTGTGTCTCCCTCCAGGCATCC
 TCTGTGATGGCTCCCCGACTTCCCAATTGTAGCCATGCTTCGAGCCCCCAAACCTGTGGCTTCTGCCAC
 GCTCTACACTTGTCCCAATATGACCCCACTCCCACTGTCCCAGCTTCTCCACTTCCCTCCTGGGTCCC
 AGAAGAACAGGCTGT CAGGCCTGT CAGCCTTGGAGCGGAAGACCTCGAAACCCCATTT CAGACCACATA
 GCTGCCCCAGTTGAAGCCAGCCACAGATCCCCTGATGCAGATTCTATAGAATCGAGGGGACCAGCTCCA
 TGCGGGCTACAAAGCACCCCATCTCTGGCCATGGGCTTCTTTGGACTCTAGTAATGTGACGATGAATCC
 TGTCCCTTCTGATGCTGGCATCCTAGGGACTGAGTCTGGGGTCTTGGACTTACCAGGGAGTCCCACATCA
 GGCGGACAGGCCACTGTGGAGAAGGTGCTGGCCACCTGGTACCCTGCCTGGCCAAGGACTAGACCCTG
 GCTCCAGTCCACACCCATGGAAGCCATGGGGTTGCCGTGAGCATGGAACCTACAGTGGCTTTGGAGGG
 AGGTGCCACCGAGGGCCCTATGGAGGCCACCAGGGAGGTGGTCCCAGCAGTGTGATGCCACTTGGGAG
 TCTGAATCCAGAAGTGCATTTCTAGCACCCACATAGCTGTGACCATGGTAGGGCTCAGGGCATGCCCA
 CACTGACCTCTACAAGCTCCGAAGGCCACCCAGAGCCTAAGGGCCAGATGGTGGCCAGGAGTCACTGGA
 GCCTCTCAACACTCTGCCTTCGCACCCCTGGTCAATCCCTGGTGGTCCCCATGGATGAAGTGGCCTCAGTT
 TCCTCAGGGGAACCCACAGGACTGTGGGACATACCCAGCACTCTGATACCTGTATCCTTGGGCTTGGATG
 AATCAGACCTGAATGTTGTGGCTGAGAGTCCAAGCGTGAAGGGCTTCTGGGAAGAGGTGGCCAGCGGGCA
 GGAAGATCCCACAGATCCCTGCGAGAACAACCCCTGCCTGCATGGGGGCACCTGCCACACCAACGGCACC
 GTGATGGCTGTAGTTGTGACCAGGGCTATGCTGGGGAGAATTGTGAAATGACATTGATGACTGCTTAT
 GCAGCCCTTGGGAGAATGGGGCACCTGCATCGACGAGGTGAATGGTTTCATCTGCCTCTGCCTCCCCAG
 CTATGGGGGCAGCCTGTGTGAGAAGGACACAGAAGGCTGCGACCGTGGCTGGCACAAATCCAGGGACAC
 TGCTACCGGTACTTTGCCATCGCCGGGCCTGGGAGGATGCAGAGAGAGATTGCAGGCGCCGAGCTGGTC
 ACCTGACAAGCGTCCATTCGCCAGAAGAGCACAAGTTCATTAACAGTTTTGGACATGAGAATTCGTGGAT
 CGGCCTGAATGACCGGACAGTAGAGAGGGACTTCCAGTGGACAGACAACACAGGACTGCAATATGAGAAC
 TGGAGGGAGAAGCAGCCGGATAATTTCTCGCAGGTGGGGAGGATTGTGTGGTATGGTGGCACATGAGA
 GTGGGCGCTGGAATGATGTCCCCTGCAACTACAACCTACCCTATGTCTGCAAGAAGGGTACAGTGTGTG
 TGGTCCCCCTCCAGCAGTGGAGAATGCCTCTCTTGTGGTGTGCGCAAGATCAAGTACAATGTCCATGCC
 ACTGTGCGATACCAGTGTGATGAAGGATTCTCCCAGCACCGAGTGGCCACTATCCGCTGCCGTAACAATG
 GGAAGTGGGACCGCCTCAGATCATGTGCATCAAACCCAGGCGGTACATCGGATGCGTAGACACCACCA
 CCATCCACACCGACATCAAGCCTCGCAAGGAGCACAGAAAACACAAGAGACACCCAGCGGAAGACTGG
 GAGAAAGACGAAGGGGATTTCTGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
 ACCN: NM_007789
 Insert Size: 3807 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 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](#)

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_007789.3](#), [NP_031815.2](#)

RefSeq Size: 7184 bp

RefSeq ORF: 3807 bp

Locus ID: 13004

UniProt ID: [P55066](#)

Cytogenetics: 8 34.15 cM

Gene Summary: May modulate neuronal adhesion and neurite growth during development by binding to neural cell adhesion molecules (NG-CAM and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic acid.[UniProtKB/Swiss-Prot Function]