

Product datasheet for **RR217058**

Vcan (NM_001170559) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vcan (NM_001170559) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vcan
Synonyms:	Cspg2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RR217058 representing NM_001170559
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGATAAATATGAACGGCATCTATGGATGTGCTCAACCTTACTGTTAACGCATGCACTGCATAAAG
 CAAAAATGGAAGAAAACCCACCTGTTAAAGGCTCTCTGTCTGGAAAAGTATCCTACCTTGCATTTTTTC
 AACCTTGCCACCTTACCACCCGATTACAACACGAGTGAATTTCTCAGAATCAAATGGTCTAAAATAGAA
 GTGGACAAAAATGGAAGACATAAAGGAGACTACTGTCTGGTGGCCCAAGACGGGAACATCAAGATTG
 GTCAGGACTACAAGGGCGGGTATCAGTGCCTACGCATCCCGATGACGTAGGCGATGCCTCTCACCAT
 GGTCAAACCTCCGTGCTAGTGACGCAGGTGTCTACCCTGTGATGTCATGTATGGCATTGAAGACACTCAG
 AACACGATGTCGCTGGCCGTGGACGGTGTCTGTTTCACTACAGGGCAGCGACCAGCAGATACACTCTGA
 ACTTCGAGTCTGCTCAACAGGCTTGTGGACATCGGGGGCGTACATAGCAACCCAGAGCAGCTGTTCCG
 TGCCATGAGGATGGATTTGAGCAGTGTGATGCAGGATGGCTGTCTGACCAAACCTGTCAGATATCCATA
 CGGGCTCCCCGAGAGGGCTGTTATGGAGACATGATGGGAAGGAAGGGTCCGGACCTATGGATCCGCT
 CTCCCCAGGAAACCTATGATGTGTATTGCTATGTGGATCATCTGGACGGCGATGTGTTCCACATCACTGC
 TCCAGTAAATTCACCTTCGAGGAGGCCAAGCAGAGTGTGCAAACCGGGATGCCAGGCTGGCGACTGTT
 GGGAACTTCACGCAGCTTGGAGGAACGGCTTTGACCAGTGCATTACGGCTGGCTGTGGATGCCAGCG
 TGCGGCACCCTGTGACTGTGGCCAGGGCCAGTGTGGAGGTGGTCTACTTGGGGTGAACAACCTGTATCG
 TTTTGAGAACCAGACATGCTTCCCTCCTCCTGATAGCAGATTTGATGCCTACTGCTTTAACGACCTGAT
 CTCTGCAAAAACAAACCCATGCCTCAATGGAGGCACCTGCTATCCTACTGAGACTTCCTATGTGTGCACCT
 GTGCACCTGGCTACAGTGGAGACCAGTGTGAACCTGGATTTTGTGAATGTCACTTAACCTTGTGGAA
 TGGAGCCACCTGTGTGGACGGTCTGAATACATTTAGATGCCTCTGCCTTCCGAGTTATGTCGGTGCACCTC
 TGCGAACAAGACACTGAGACATGCGACTATGGCTGGCACAATTCGAAGGCAATGCTACAAGTACTTTG
 CTCATCGCCGTACATGGGATGCTGCTGAAAGGGAGTGTGCGCTGCAGGGTGGCCACCTCACAAAGCATCCT
 TTCTCATGAGGAACAAATGTTTGTGAATCGTGTGGCCATGATTACCAGTGGATTGGCTCAATGACAAG
 ATGTTTGAACATGACTTCCGCTGGACTGACGGCAGCGCACTGCAATATGAGAAGTGGAGACCAACCAGC
 CAGACAGCTTCTTTCTGCTGGAGAAGACTGCGTTGTGATCATTGGCATGAGAATGGCCAGTGGAAATGA
 CGTCCCCTGCAACTACCACCTCACCTACACCTGCAAGAAGGGAACAGTTGCTTGGCGCAACCCCTGTT
 GTAGAAAATGCCAAGACCTTTGGAAAGATGAAACCACGTTATGAAATCAACTCCTTGATTAGATACCACT
 GCAAAGATGGTTTCATTCAGCGTCACCTTCCAACCTATCCGGTGCCTAGGAAATGGGAGATGGGCAATGCC
 TAAAAAACCCTGCATGAACCCATCTGCATACCAAAGGACTTATTCTAAGAAATACTTAAAAAATCCTCA
 TCAGTCAAGGACAATTCTATAAATACGTCAAACATGAGCATCGCTGGAGCCGGAGGTGGCAGGAAACGA
 GGCGC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217058 representing NM_001170559
Red=Cloning site Green=Tags(s)

MLINMNGILWMCSTLLLTHALHKAKMEENPPVKGSLSGKVILPCHFSTLPTLPPDYNTSEFLRIKWSKIE
 VDKNGKDIKETTTLVAQDGNIKIGQDYKGRVSVPTHPDDVGDASLTMVKLRASDAGVYRCDVMYGIEDTQ
 NTMSLAVDGVVFHYRAATSRYTILNFESAQACLIDIGAVIATPEQLFAAYEDGFEQCDAGWLSQTVRYPI
 RAPREGCYGDMGKEGVRTYGFRRSPQETVDVYCYVDHLDGDVVFHITAPSKFTFEEAEAEANRDARLATV
 GELHAAWRNGFDQCDYGLSDASVRHPVTVARAQCGGGLLGVRTLYRFENQTCFPLPDSRFDAYCFKRPD
 LCKTNPCLNGGTCYPTETSYVCTCAPGYSGDQCELDDECHSNPCRNGATCVDGLNTRFRCCLPSYVVAL
 CEQDTETCDYGWHKFQGCYKYFAHRRTWDAARECRLQGAHLTSILSHEEQMFVNRVGHYDQWIGLNDK
 MFEHDFRWDGSAQYENWRPNQPSFFSAGEDCVVIIWHENGQWNVPCNYHLTYTCKKGTVACQPPV
 VENAKTFGKMKPRYEINSLIRYHCKDGFIRHLPTIRCLGNRWAMPKITCMNPSAYQRTYSKKYLKNS
 SVKDNSINTSKHEHRWSRRWQETRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001170559

ORF Size: 1965 bp

OTI Disclaimer: 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_001170559.1](#), [NP_001164030.1](#)

RefSeq Size: 4175 bp

RefSeq ORF: 1968 bp

Locus ID: 114122

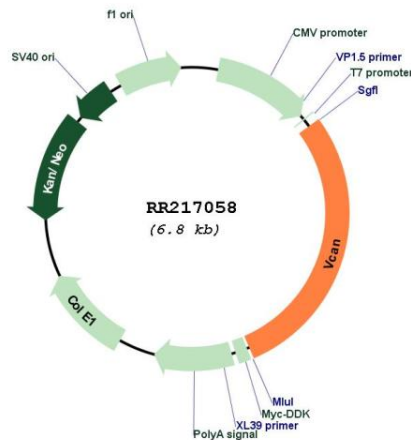
UniProt ID: [Q9ERB4](#)

Cytogenetics: 2q12

MW: 74.5 kDa

Gene Summary: extracellular matrix protein secreted by many cell types; part of the large chondroitin sulfate proteoglycan (CSPG) family [RGD, Feb 2006]

Product images:



Circular map for RR217058