

Product datasheet for **RN217058**

Vcan (NM_001170559) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN217058 representing NM_001170559
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGATAAATATGAACGGCATCTATGGATGTGCTCAACCTTACTGTTAACGCATGCACTGCATAAAG
 CAAAATGGAAGAAAACCCACCTGTTAAAGGCTCTCTGTCTGAAAAGTGATCCTACCTTGCATTTTTTC
 AACCTTGCCACCTTACCACCCGATTACAACACGAGTGAATTTCTCAGAATCAAATGGTCTAAAATAGAA
 GTGGACAAAAATGAAAAGACATAAAGGAGACTACTGTCTGGTGGCCCAAGACGGGAACATCAAGATTG
 GTCAGGACTACAAGGGCGGGTATCAGTGCCTACGCATCCCGATGACGTAGGCGATGCCTCTCACCAT
 GGTCAAACCTCCGTGCTAGTGACGCAGGTGTCTACCGCTGTGATGCATGTATGGCATTGAAGACACTCAG
 AACACGATGTCGCTGGCCGTGGACGGTGTCTGTTTCACTACAGGGCAGCGACCAGCAGATACACTCTGA
 ACTTCGAGTCTGCTCAACAGGCTTGTGGACATCGGGGCGGTACATAGCAACCCAGAGCAGCTGTTCCG
 TGCCATGAGGATGGATTTGAGCAGTGTGATGCAGGATGGCTGTCTGACCAAACCTGTCAGATATCCATA
 CGGGCTCCCCGAGAGGGCTGTTATGGAGACATGATGGGAAGGAAGGGTCCGGACCTATGGATCCGCT
 CTCCCCAGGAAACCTATGATGTGTATTGCTATGTGGATCATCTGGACGGCGATGTGTTCCACATCACTGC
 TCCAGTAAATTCACCTTCGAGGAGGCCGAAGCAGAGTGTCAAACCGGGATGCCAGGCTGGCGACTGTT
 GGGAACTTCACGCAGCTTGAGGAACGGCTTTGACCAGTGCATTACGGCTGGCTGTGGATGCCAGCG
 TGCGGCACCCTGTGACTGTGGCCAGGGCCAGTGTGGAGTGGTCTACTTGGGGTGAACCCCTGTATCG
 TTTTGAGAACCAGACATGCTTCCCTCCTCCTGATAGCAGATTTGATGCCTACTGCTTTAACGACCTGAT
 CTCTGCAAAACAAACCCATGCCTCAATGGAGGCACCTGCTATCCTACTGAGACTTCCTATGTGTGCACCT
 GTGCACCTGGCTACAGTGGAGACCAGTGAACCTGGATTTTGTGATGAATGCACTTAACCTTGTCCGAA
 TGGAGCCACCTGTGTGGACGGTCTGAATACATTTAGATGCCTCTGCCTCCGAGTTATGTCGGTGCACCTC
 TGCAACAAAGACACTGAGACATGCGACTATGGCTGGCACAAATCCAAGGGCAATGCTACAAGTACTTTG
 CTCATCGCCGTACATGGGATGCTGCTGAAAGGGAGTGTGCGCTGCAGGGTGGCCACCTCACAAGCATCCT
 TTCTCATGAGGAACAAATGTTTGTGAATCGTGTGGCCATGATTACCAGTGGATTGGCTCAATGACAAG
 ATGTTTGAACATGACTTCCGCTGGACTGACGGCAGCGCACTGCAATATGAGAAGTGGAGACCAACCAGC
 CAGACAGTTCCTTTCTGCTGGAGAAGACTGCGTTGTGATCATTGGCATGAGAATGGCCAGTGGAAATGA
 CGTCCCCTGCAACTACCCTCACCTACACCTGCAAGAAGGGAACAGTTGCTTGGCGCAACCCCTGTT
 GTAGAAAATGCCAAGACCTTTGGAAAGATGAAACCACGTTATGAAATCAACTCCTTGATTAGATACCACT
 GCAAAGATGGTTTCATTACGCTCACCTCCAACCTATCCGGTGCCTAGGAAATGGAGATGGGCAATGCC
 TAAAAAACCCTGCATGAACCCATCTGCATACCAAAGGACTTATTCTAAGAAATACTTAAAAAATCCTCA
 TCAGTCAAGGACAATTCTATAAATACGTCAAACATGAGCATCGCTGGAGCCGGAGGTGGCAGGAAACGA
 GCGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001170559

Insert Size: 1968 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<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:	<u>NM_001170559.1, NP_001164030.1</u>
RefSeq Size:	4175 bp
RefSeq ORF:	1968 bp
Locus ID:	114122
UniProt ID:	<u>Q9ERB4</u>
Cytogenetics:	2q12
Gene Summary:	<p>extracellular matrix protein secreted by many cell types; part of the large chondroitin sulfate proteoglycan (CSPG) family [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (4) lacks two alternate in-frame exons, compared to variant 1, resulting in a shorter protein (isoform 4, also referred to as V3), compared to isoform 1.</p>