OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RN217671

Vcan (NM_001170560) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vcan (NM_001170560) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Vcan
Synonyms:	Cspg2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN217671 representing NM_001170560 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTGATAAATATGAACGGCATCCTATGGATGTGCTCAACCTTACTGTTAACGCATGCACTGCATAAAG CCAAAATGGAAGAAAACCCACCTGTTAAAGGCTCTCTGTCTGGAAAAGTGATCCTACCTTGTCATTTTTC AACCTTGCCCACCTTACCACCCGATTACAACACGAGTGAATTTCTCAGAATCAAATGGTCTAAAATAGAA GTGGACAAAAATGGAAAAGACATAAAGGAGACTACTGTCCTGGTGGCCCAAGACGGGAACATCAAGATTG GTCAGGACTACAAGGGGCGGGTATCAGTGCCTACGCATCCCGATGACGTAGGCGATGCCTCTCTCACCAT GGTCAAACTCCGTGCTAGTGACGCAGGTGTCTACCGCTGTGATGTCATGTATGGCATTGAAGACACTCAG AACACGATGTCGCTGGCCGTGGACGGTGTCGTGTTTCACTACAGGGCAGCGACCAGCAGATACACTCTGA ACTTCGAGTCTGCTCAACAGGCTTGTTTGGACATCGGGGCGGTCATAGCAACCCCAGAGCAGCTGTTCGC TGCCTATGAGGATGGATTTGAGCAGTGTGATGCAGGATGGCTGTCTGACCAAACTGTCAGATATCCCATA CGGGCTCCCCGAGAGGGCTGTTATGGAGACATGATGGGGAAGGAAGGGGTCCGGACCTATGGATTCCGCT CTCCCCAGGAAACCTATGATGTGTATTGCTATGTGGATCATCTGGACGGCGATGTGTTCCACATCACTGC TCCCAGTAAATTCACCTTCGAGGAGGCCGAAGCAGAGTGTGCAAACCGGGATGCCAGGCTGGCGACTGTT GGGGAACTTCACGCAGCTTGGAGGAACGGCTTTGACCAGTGCGATTACGGCTGGCTGTCGGATGCCAGCG TGCGGCACCCTGTGACTGTGGCCAGGGCCCAGTGTGGAGGTGGTCTACTTGGGGTGAGAACCCTGTATCG TTTTGAGAACCAGACATGCTTCCCTCTCCCTGATAGCAGATTTGATGCCTACTGCTTTAAACCTAAACAG AATATATCAGAGGCAACCACCATCGAAACGAATACCCTCGCAGAAACTGCATCACCCAGTTTATCCAAAG AACCACACATGGTACCCGAGAGAGCTACACCAGTCATTCCATTAGTCACCGAATTACCTATTTTTACCAC ACACTTCCCTCCTGCAGGAAATATAGTCAATTCTGAACAAAAATCTGTAATCTACTCTCAGGCTATCACA GACAGAGTAGCCACTGAATCACCCACAGCTGCTGGGAGTCCCATTAACTCTTGGGATGCGGATGACTACT TGCCTTCTGGGTCAGGACCACTTGGAAAGCCAGACATATCTGAAATTAAGGAGGAAGGACTTCAAAGTAC AACTGTCACCTCCCAACATGCTACTGCCTCACACCATGGAATTACAGAGGATACGCAAACACATGAATCA GTTACACAGATTGAACAAATAGAAGTGGGCCCCTTGGTAACATCCATGGAAATCACAAATCACATTTCTT

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CGCTGGAGCCGGAGGTGGCAGGAAACGAGGCGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001170560
Insert Size:	4866 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:	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_001170560.1, NP_001164031.1
RefSeq Size:	7073 bp
RefSeq ORF:	4866 bp
Locus ID:	114122
UniProt ID:	Q9ERB4
Cytogenetics:	2q12
Gene Summary:	extracellular matrix protein secreted by many cell types; part of the large chondroitin sulfate proteoglycan (CSPG) family [RGD, Feb 2006] Transcript Variant: This variant (3) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform 3, also referred to as V2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data from several strains because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.