

Product datasheet for **SC327326**

Versican (VCAN) (NM_001164098) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Versican (VCAN) (NM_001164098) Human Untagged Clone
Tag:	Tag Free
Symbol:	VCAN
Synonyms:	CSPG2; ERVR; GHAP; PG-M; WGN; WGN1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001164098, the custom clone sequence may differ by one or more nucleotides

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ATGTTTCATAAATATAAAGAGCATCTTATGGATGTGTTCAACCTTAATAGTAACCCATGCG
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 GACAATTCAATAAATACATCCAAACATGATCATCGTTGGAGCCGGAGGTGGCAGGAGTCG
 AGGCCG

Restriction Sites:	Please inquire
ACCN:	NM_001164098
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001164098.1</u> , <u>NP_001157570.1</u>
RefSeq Size:	7154 bp
RefSeq ORF:	4929 bp
Locus ID:	1462
UniProt ID:	<u>P13611</u>
Cytogenetics:	5q14.2-q14.3
Protein Pathways:	Cell adhesion molecules (CAMs)

Gene Summary:

This gene is a member of the aggrecan/versican proteoglycan family. The protein encoded is a large chondroitin sulfate proteoglycan and is a major component of the extracellular matrix. This protein is involved in cell adhesion, proliferation, proliferation, migration and angiogenesis and plays a central role in tissue morphogenesis and maintenance. Mutations in this gene are the cause of Wagner syndrome type 1. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009]

Transcript Variant: This variant (4), also known as PG-M(V2), lacks an exon in the coding region, compared to variant 1. This results in a shorter protein (isoform 4), compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.