

Product datasheet for **RG226068**

Versican (VCAN) (NM_001126336) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Versican (VCAN) (NM_001126336) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Versican
Synonyms:	CSPG2; ERVR; GHAP; PG-M; WGN; WGN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226068 representing NM_001126336
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTCATAAATATAAGAGCATCTTATGGATGTGTTCAACCTTAATAGTAACCCATGCGCTACATAAAG
 TCAAAGTGGGAAAAAGCCACCGGTGAGGGGCTCCCTCTCTGAAAAAGTCAGCCTACCTTGTCAATTTTC
 AACGATGCCTACTTTGCCACCCAGTTACAAACACCAAGTGAATTTCTCCGCATCAAATGGTCTAAGATTGAA
 GTGGACAAAAATGGAAAAGATTTGAAAGAGACTACTGTCCTTGTGGCCAAAAATGGAAATATCAAGATTG
 GTCAGGACTACAAAGGGAGAGTGTCTGTGCCACACATCCCGAGGCTGTGGGCGATGCCTCCCTCACTGT
 GGTCAAGTGTGGCAAGTGTGCGGGTCTTACCCTGTGACGTATGTACGGGATTGAAGACACACAA
 GACACGGTGTCACTGACTGTGGATGGGGTGTGTTTCACTACAGGGCGGCAACCAGCAGGTACACACTGA
 ATTTTGAGGCTGCTCAGAAGCTTGTGGACGTTGGGCGAGTCATAGCAACTCCAGAGCAGCTCTTTGC
 TGCTATGAAGATGGATTTGAGCAGTGTGACGCAGGCTGGCTGGCTGATCAGACTGTCAGATATCCCATC
 CGGGCTCCAGAGTAGGCTGTTATGGAGATAAGATGGGAAAGGCAGGAGTCAGGACTTATGGATCCGTT
 CTCCCCAGGAACTTACGATGTGTATTGTTATGTGGATCATCTGGATGGTGTGTTCCACCTCACTGT
 CCCAGTAAATTCACCTTCGAGGAGGCTGCAAAAGAGTGTGAAAACAGGATGCCAGGCTGGCAACAGTG
 GGGAACTCCAGGCGGCATGGAGGAACGGCTTTGACCAGTGCATTACGGGTGGCTGTGGATGCCAGCG
 TGCGCCACCCTGTGACTGTGGCCAGGGCCAGTGTGGAGGTGGTCTACTTGGGGTGAAGACCCTGTATCG
 TTTTGAGAACCAGACAGGCTTCCCTCCCCTGATAGCAGATTTGATGCCTACTGCTTTAACGACCTGAT
 CGCTGCAAAATGAACCCGTGCCTAACGGAGGCACCTGTTATCCTACTGAAACTTCCTACGTATGCACCT
 GTGTGCCAGGATACAGCGGAGACCAGTGTGAACCTGATTTTGTGAATGTCACCTAATCCCTGTCGTAA
 TGGAGCCACTTGTGTTGATGGTTTTAACACATTCAGGTGCCTCTGCCTTCCAAGTTATGTTGGTGCACCT
 TGTGAGCAAGATACCGAGACATGTGACTATGGCTGGCACAATTCGAAGGCAGTGTACAAATACTTTG
 CCCATCGACGCACATGGGATGCAGCTGAACGGGAATGCCGTCTGCAGGCTGCCATCTCACAAGCATCCT
 GTCTCACGAAGAACAATGTTTGTAAATCGTGTGGCCATGATTATCAGTGGATAGGCCTCAATGACAAG
 ATGTTTGAGCATGACTTCCGTTGGACTGATGGCAGCACTGCAATACGAGAATTGGAGACCAACCAGC
 CAGACAGCTTCTTTCTGCTGGAGAAGACTGTGTTGTAATCATTGGCATGAGAATGGCCAGTGGAAATGA
 TGTTCCCTGCAATTACCATCTCACCTATACGTGCAAGAAAGGAACAGTCGCTTGGCGCCAGCCCCCTGTT
 GTAGAAAATGCCAAGACCTTTGGAAAGATGAAACCTCGTTATGAAATCAACTCCCTGATTAGATACCACT
 GCAAAGATGGTTTCATTCACGTCACCTTCCAACCTATCCGGTGCCTAGGAAATGGAAGATGGGCTATACC
 TAAAATTACCTGCATGAACCCATCTGCATACCAAAGGACTTATTCTATGAAATACTTTAAAAATTCCTCA
 TCAGCAAAGGACAATTCAATAAATACATCCAAACATGATCATCGTTGGAGCCGGAGGTGGCAGGAGTCGA
 GGCGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226068 representing NM_001126336
 Red=Cloning site Green=Tags(s)

MFINKSILWMCSTLIVTHALHKVKVKGKSPVVRGSLSGKVSLPCHFSTMPTLPPSYNTSEFLRIKWSKIE
 VDKNGKDLKETTTLVAQNGNIKIGQDYKGRVSVPTHEAVGDASLTVVKLLASDAGLYRCDVMYGIEDTQ
 DTVSLTVDGCVFHYRAATSRYTLEFAAQKACLVDGAVIATPEQLFAAYEDGFEQCDAGWLADQTVRYPI
 RAPRVGCYGDKMGKAGVRTYGFRRSPQETVDVYCVVDHLGDGVFHLTVPSKFTFEEAAKECENQDARLATV
 GELQAAWRNGFDQCDYGLSDASVRHPVTVARAQCGGGLLGVRTLYRFENQTFGPPDSRFDAYCFKRPD
 RCKMNPCLNGGTCYPTETSYVCTCVPGYSGDQCELDDECHSNPCRNGATCVDGFNTFRCLCLPSYVYV
 CEQDTETCDYGWHKFQGCYKYFAHRRTWDAARECRLQGAHLTSILSHEEQMFVNRVGHYDQWIGLNDK
 MFEHDFRWDGSTLQYENWRPNQPSFFSAGEDCVVIIWHENGQWNVPCNYHLTYTCKKGTVACQPPV
 VENAKTFGKMKPRYEINSLIRYHCKDGFIRHLPTIRCLGNRWAIPKITCMNPSAYQRTYSMKYFKNSS
 SAKDNSINTSKHDHRWSRRWQESRR

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001126336

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_001126336.3](#)

RefSeq Size: 3834 bp

RefSeq ORF: 1968 bp

Locus ID: 1462

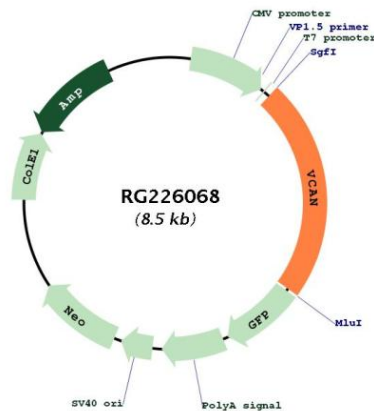
UniProt ID: [P13611](#)

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, 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]

Product images:



Circular map for RG226068