

## Product datasheet for **RC202929**

### Vitronectin (VTN) (NM\_000638) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vitronectin (VTN) (NM_000638) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vitronectin
Synonyms:	V75; VN; VNT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC202929 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCACCCCTGAGACCCTTCTACACTGGCCCTGCTGGCATGGTTGCTCTGGCTGACCAAGAGTCAT  
 GCAAGGGCCGCTGCACTGAGGGCTTCAACGTGGACAAGAAGTGCCAGTGTGACGAGCTCTGCTTTACTA  
 CCAGAGCTGCTGCACAGACTATACGGCTGAGTGAAGCCCAAGTACTCGCGGGGATGTGTTCACTATG  
 CCGGAGGATGAGTACACGGTCTATGACGATGGCGAGGAGAAAAACAATGCCACTGTCCATGAACAGGTGG  
 GGGGCCCTCCCTGACCTCTGACCTCCAGGCCAGTCCAAAGGGAATCCTGAGCAGACACCTGTTCTGAA  
 ACCTGAGGAAGAGGCCCTGCGCCTGAGGTGGCGCCTCTAAGCCTGAGGGGATAGACTCAAGGCCTGAG  
 ACCCTTATCCAGGGAGACCTCAGCCCCAGCAGAGGAGGAGCTGTGCAGTGGGAAGCCCTTCGACGCCT  
 TCACCGACCTCAAGAACGGTCCCTCTTGCCTCCGAGGGCAGTACTGCTATGAACTGGACGAAAAGGC  
 AGTGAGGCCTGGTACCCAAGTCCATCCGAGATGTCTGGGCATCGAGGGCCCCATCGATGCCGCCTTC  
 ACCCGCATCAACTGTGAGGGGAAGACCTACCTCTTCAAGGGTAGTCACTACTGGCGCTTTGAGGATGGTG  
 TCCTGGACCCTGATTACCCCCGAAATATCTCTGACGGCTTCGATGGCATCCCGGACAACGTGGATGCAGC  
 CTTGGCCCTCCCTGCCATAGCTACAGTGGCCGGGAGCGGGTCTACTTCTTCAAGGGGAAACAGTACTGG  
 GAGTACCAGTTCACGACCAGCCAGTCAAGGAGGTGTGAAGGCAGCTCCCTGTGCGCTGTGTTTGAAC  
 ACTTTGCCATGATGCAGCGGGACAGCTGGGAGGACATCTTCGAGCTTCTCTTCTGGGGCAGAACCTCTGC  
 TGGTACCAGACAGCCCCAGTTTATTAGCCGGGACTGGCACGGTGTGCCAGGGCAAGTGGACGCAGCCATG  
 GCTGGCCGCATCTACATCTCAGGCATGGCACCCCGCCCTCCTTGGCCAAGAAACAAGGTTTAGGCATC  
 GCAACCCGAAAGGCTACCGTTCACAACGAGGCCACAGCCGTGGCCGCAACCAGAACTCCCGCCGGCCATC  
 CCGCGCCATGTGGCTGTCTTGTCTCCAGTGAAGGAGCAACTTGGGAGCCAACAACAATATGATGACTAC  
 AGGATGGACTGGCTTGTGCCTGCCACCTGTGAACCCATCCAGAGTGTCTTCTTCTCTGGAGACAAGT  
 ACTACCGAGTCAATCTTCGCACACGGCAGTGGACACTGTGGACCCTCCCTACCCACGCTCCATCGCTCA  
 GTACTGGCTGGGCTGCCAGCTCTGGCCATCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC202929 protein sequence  
 Red=Cloning site Green=Tags(s)

MAPLRPLLILALLAWVALADQESCKGRCTEGFNVDKCKQCDELCSYYQSCCTDYAECKPQVTRGDVFTM  
 PEDEYTVYDDGEEKNNATVHEQVGGPSL TSDLQAQSKGNPEQTPVLKPEEEAPAPEVGVASKPEGIDSRPE  
 TLHPGRPQPPAEEELCSGKPFDAFDLKNGLFAFRGQYCYELDEKAVRPGYPKLIRDVWGIEGPIIDAAF  
 TRINCQKTYL FKGSQYWRFE DGLDPDYPRNISDGF DGI PDNVDAALALPAHSYSGRERYVYFKGKQYW  
 EYQFQHQP SQEECEGSSL SAVFEHFAMMQRDSWEDIFELLFWGRTSAGTRQPQFISRDRWHGVPGQVDAAM  
 AGR IYISGM APRSLAKKQRF RHRNRKGYRSQRGHSRGRNQNSRRPSRAMWLSLFSSEESNLGANNYDDY  
 RMDWLVPATCEPIQSVFFFSGDKYYRVNLRTRRVDTVDPPYPRISIAQYWLGPAPGHL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6152\\_b09.zip](https://cdn.origene.com/chromatograms/mk6152_b09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_000638

**ORF Size:** 1434 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\\_000638.2](#), [NP\\_000629.2](#)

**RefSeq Size:** 1678 bp

**RefSeq ORF:** 1437 bp

**Locus ID:** 7448

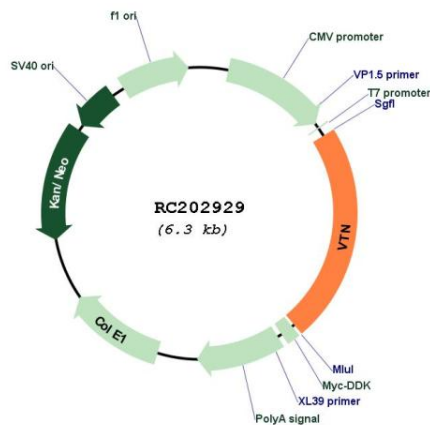
**UniProt ID:** [P04004](#)

**Cytogenetics:** 17q11.2

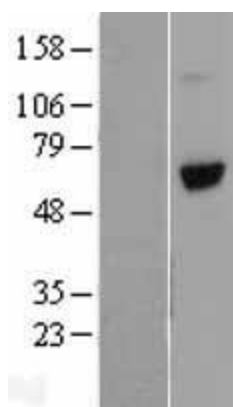
Domains:	hemopexin, SO
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	ECM-receptor interaction, Focal adhesion
MW:	54.3 kDa

**Gene Summary:** The protein encoded by this gene functions in part as an adhesive glycoprotein. Differential expression of this protein can promote either cell adhesion or migration as it links cells to the extracellular matrix through a variety of ligands. These ligands include integrins, plasminogen activator inhibitor-1, and urokinase plasminogen activator receptor. This secreted protein can be present in the plasma as a monomer or dimer and forms a multimer in the extracellular matrix of several tissues. This protein also inhibits the membrane-damaging effect of the terminal cytolytic complement pathway and binds to several serpin serine protease inhibitors. This protein can also promote extracellular matrix degradation and thus plays a role in tumorigenesis. It is involved in a variety of other biological processes such as the regulation of the coagulation pathway, wound healing, and tissue remodeling. The heparin-binding domain of this protein give it anti-microbial properties. It is also a lipid binding protein that forms a principal component of high density lipoprotein. [provided by RefSeq, Aug 2020]

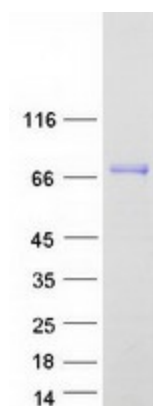
### Product images:



Circular map for RC202929



Western blot validation of overexpression lysate (Cat# [LY400215]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202929 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VTN protein (Cat# [TP302929]). The protein was produced from HEK293T cells transfected with VTN cDNA clone (Cat# RC202929) using MegaTran 2.0 (Cat# [TT210002]).