

## Product datasheet for **SC319158**

### Vitronectin (VTN) (NM\_000638) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vitronectin (VTN) (NM_000638) Human Untagged Clone
Tag:	Tag Free
Symbol:	Vitronectin
Synonyms:	V75; VN; VNT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000638.3  
 CTCCTTCTCAGGCATCAGAGCGGAGACTTCAGGGAGACCAGAGCCCAGCTTGCCAGGC  
 ACTGAGCTAGAAGCCCTGCCATGGCACCCTGAGACCCCTTCTCATACTGGCCCTGCTGG  
 CATGGGTTGCTCTGGCTGACCAAGATCATGCAAGGGCCGCTGCACTGAGGGCTTCAACG  
 TGGACAAGAAGTGCCAGTGTGACGAGCTCTGCTTTACTACCAGAGCTGCTGCACAGACT  
 ATACGGCTGAGTGAAGCCCAAGTGACTCGCGGGGATGTGTTCACTATGCCGGAGGATG  
 AGTACACGGTCTATGACGATGGCGAGGAGAAAAACAATGCCACTGTCCATGAACAGGTGG  
 GGGGCCCTCCCTGACCTCTGACCTCCAGGCCAGTCCAAGGGAATCCTGAGCAGACAC  
 CTGTTCTGAAACCTGAGGAAGAGCCCTGCGCCTGAGGTGGGCGCTCTAAGCCTGAGG  
 GGATAGACTCAAGGCCTGAGACCCTTCATCCAGGGAGACCTCAGCCCCAGCAGAGGAGG  
 AGCTGTGAGTGGGAAGCCCTTCGACGCCTTACCAGACTCAAGAACGGTTCCCTCTTTG  
 CCTTCCGAGGGCAGTACTGCTATGAACTGGACGAAAAGGCAGTGAGGCCTGGGTACCCCA  
 AGCTCATCCGAGATGTCTGGGCATCGAGGGCCCATCGATGCCGCCTTACCAGCATCA  
 ACTGTCAGGGGAAGACCTACCTTCAAGGGTAGTCAGTACTGGCGCTTTGAGGATGGTG  
 TCCTGGACCCTGATTACCCCGAAATATCTCTGACGGCTTCGATGGCATCCCGGACAACG  
 TGGATGCAGCCTTGGCCCTCCCTGCCCATAGCTACAGTGCCGGGAGCGGTCTACTTCT  
 TCAAGGGGAAACAGTACTGGGAGTACCAGTCCAGCACCAGCCAGTCAGGAGGAGTGTG  
 AAGGCAGCTCCCTGTGCGCTGTGTTGAACACTTTGCCATGATGCAGCGGGACAGCTGGG  
 AGGACATCTTCGAGCTTCTTTCTGGGGCAGAACCTCTGCTGGTACCAGACAGCCCCAGT  
 TCATTAGCCGGGACTGGCAGGTGTGCCAGGGCAAGTGGACGCAGCCATGGCTGGCCGCA  
 TCTACATCTCAGGCATGGCACCCCGCCCTCCTTGCCAAAGAAACAAAGTTTAGGCATC  
 GCCGGCCATCCCGGCCATGTGGCTGTCCTTGTCTCCAGTGAGGAGAGCAACTTGGGAG  
 CCAACAACATATGATGACTACAGGATGGACTGGCTTGTGCCTGCCACCTGTGAACCATCC  
 AGAGTGTCTTCTTCTCTGGAGACAAGTACTACCGAGTCAATCTTCGACACGCGGAG  
 TGGACTGTGGACCCTCCCTACCCACGCTCCATCGCTCAGTACTGGCTGGGCTGCCAG  
 CTCCTGGCCATCTGTAGGAGTCAAGGCCACATGGCCGGGCCCTCTGTAGCTCCCTCCTC  
 CCATCTCCTTCCCCAGCCCAATAAAGGTCCCTTAGCCCCGAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000638

**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:**

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\\_000638.3](#), [NP\\_000629.3](#)

**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

**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]