

Product datasheet for RC219141

VNN3 (NM_018399) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VNN3 (NM_018399) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VNN3
Synonyms:	HSA238982; MGC124285; MGC171203; OTTMUSP00000022908; PAGEL-beta; PAGEL-eta; PAGEL-zeta; vanin 3; vascular non-inflammatory molecule 3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219141 representing NM_018399 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGATTATATCACATTTTCCAAATGTGTGGCAGTTTTTGCCTCCTTGCTCTGAGTGTTGGTGCAGTGG
 ACACTTTTATTGCTGCAGTATATGAGCATGCGGTGATATTACAAACAGAACAGAAACACCTGTTTCAAA
 AGAAGAAGCTTTGCTCCTGATGAACAAGAACATAGATGTTTTGGAGAAAGCAGTTAAGCTGGCAGCGAAG
 CAGGGTGCACATATCATTGTGACCCAGAAGATGGAATCTATGGTTGGATCTTCACCAGGGAGAGCATTT
 ACCCCTATCTAGAGGATATACCAGACCCTGGAGTGAAGTGGATTCCATGTAGAGACCCCTGGAGATTCGG
 CAACACACCAAGTCAACAAAGACTCAGCTGCCTGGCCAAGGACAACCTCTATCTATGTCGTGGCTAATATT
 GGGGACAAGAAGCCATGCAATGCCAGTGACTCTCAGTGTCCCCCTGATGGCCGTTACCAATACAACACTG
 ATGTGGTGTGTTGATTCTCAGGGAAAAGTGTGGCAGCTACCATAAGTACAATCTTTTTGCACCTGAAAT
 TCAGTTTGATTTCCCAAGGATTCAGAAGTGTGACTTTTGACACTCCCTTTGGGAAGTTTGGCATTGTTT
 ACTTGCTTTGACATTTTTCTCATGACCCAGCTGTGGTGGTGGTGGATGAGTTTCAATTGACAGCATTCT
 CTACCCACAGCATGGTACAACAGCTGCCCTCCTCTCGGCTGTTCCCTTCCATTGAGCATGGGCCAAG
 GCCATGGGAGTCAATCTACTTGCTGCAATACCCACAACACCAGCATGCACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC219141 representing NM_018399
 Red=Cloning site Green=Tags(s)

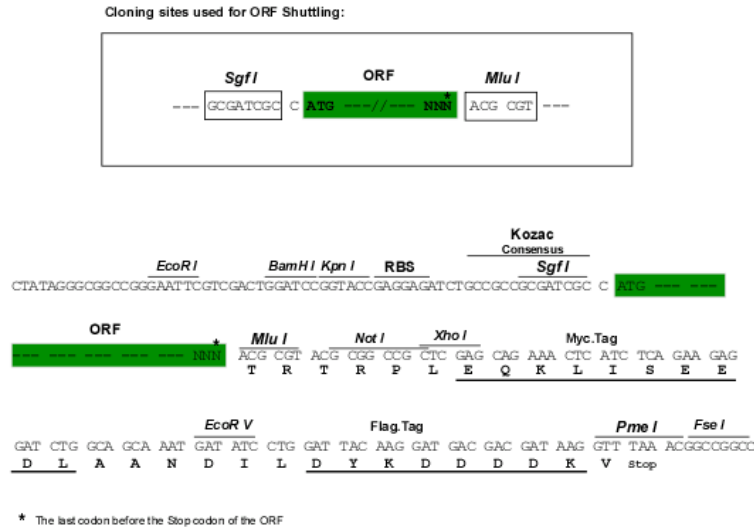
MIISHFPKCVAVFALLALSVGALDTFIAAVYEHAVILPNRTETPVSKEEALLMNKNIDVLEKAVKLA
 QGAHIIVTPEDGIYGWIFTRESIYPYLEDIPDPGVNWIPCRDPWRFNGNTPVQRLSCLAKDNSIYV
 VANIGDKKPCNASDSQCPPDGRYQYNTDVVFDSSQGLLARYHKYNLFAPEIQDFPKDSELVTFDTP
 FPGKFGIFTCFDIFSHDPAVVVVDEFQLTAFSTPQHGTTRCPSSRLFPSIQHGPRPWESIYLLQIPTT
 PACT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6100_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018399

ORF Size: 822 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018399.3](#), [NP_060869.2](#)

RefSeq Size: 1733 bp

RefSeq ORF: 824 bp

Locus ID: 55350

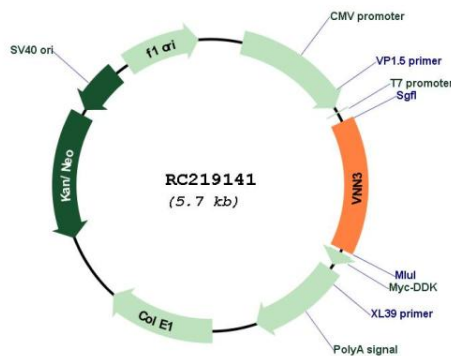
Cytogenetics: 6q23.2

Protein Families: Transmembrane

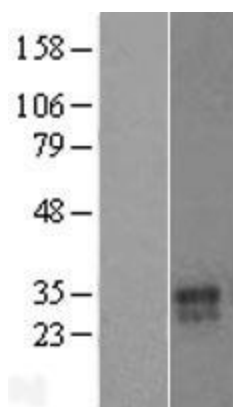
MW: 28.4 kDa

Gene Summary: This gene is the central gene in a cluster of three vanin genes on chromosome 6q23-q24. Extensive alternative splicing has been described; the two most common variants are represented as RefSeqs. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RC219141



Western blot validation of overexpression lysate (Cat# [LY402675]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219141 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VNN3 protein (Cat# [TP319141]). The protein was produced from HEK293T cells transfected with VNN3 cDNA clone (Cat# RC219141) using MegaTran 2.0 (Cat# [TT210002]).