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Product datasheet for SC125448

VNN1 (NM_004666) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VNN1 (NM_004666) Human Untagged Clone
Tag:	Tag Free
Symbol:	VNN1
Synonyms:	HDLCQ8; Tiff66
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC125448 sequence for NM_004666 edited (data generated by NextGen Sequencing)

ATGACTACTCAGTTGCCAGCTTACGTGGCAATTTTGCTTTTCTATGTCTCAAGAGCCAGC
TGCCAGGACACTTTCACTGCAGCTGTTTATGAGCATGCAGCGATATTGCCCAATGCCACC
CTAACACCAGTGTCTCGTGAGGAGGCTTTGGCATTAATGAATCGGAATCTGGACATTTTG
GAAGGAGCGATCACATCAGCAGCAGATCAGGGTGCGCATATTATTGTGACTCCAGAAGAT
GCTATTTATGGCTGGAACTTCAACAGGGACTCTCTCTACCCATATTTGGAGGACATCCCA
GACCCTGAAGTAAACTGGATCCCCTGTAATAATCGTAACAGATTTGGCCAGACCCCAGTA
CAAGAAAGACTCAGCTGCCTGGCCAAGAACAACTCTATCTATGTTGTGGCAAATATTGGG
GACAAGAAGCCATGCGATACCAGTGATCCTCAGTGTCCCCCTGATGGCCGTTACCAATAC
AACACTGATGTGGTATTTGATTCTCAAGGAAAACTGGTGGCACGCTACCATAAGCAAAAC
CTTTTCATGGGTGAAAATCAATTCAATGTACCCAAGGAGCCTGAGATTGTGACTTTCAAT
ACCACCTTTGGAAGTTTTGGCATTTTCACATGCTTTGATATACTCTTCCATGATCCTGCT
GTTACCTTGGTGAAAGATTTCCACGTGGACACCATAGTATTCCCAACAGCTTGGATGAAT
GTTTTGCCACATTTGTCAGCTGTTGAATTCCACTCAGCTTGGGCTATGGGCATGAGGGTC
AATTTCCTTGCATCCAACATACATTACCCCTCAAAGAAAATGACAGGAAGTGGCATCTAT
GCACCCAATTCTTCAAGAGCATTTCATTATGATATGAAGACAGAAGAGGGAAAACTCCTC
CTCTCGCAACTGGATTCCCACCCATCCCATTCTGCAGTGGTGAACTGGACTTCCTATGCC
AGCAGTATAGAAGCGCTCTCATCAGGAAACAAGGAATTTAAAGGCACTGTCTTTTTCGAT
GAATTCACTTTTGTGAAGCTCACAGGAGTTGCAGGAAATTATACAGTTTGTCAGAAAGAT
CTCTGCTGTCATTTAAGCTACAAAATGTCTGAGAACATACCAAATGAAGTGTACGCTCTA
GGGGCATTTGACGGACTGCACACTGTGGAAGGGCGCTATTATCTACAGATTTGTACCCTG
TTGAAATGTAAAACGACTAATTTAAACACTTGCGGTGACTCAGCTGAAACAGCTTCTACC
AGGTTTGAAATGTTCTCCCTCAGTGGCACTTTCGGAACCCAGTATGTCTTTCCTGAGGTG
TTGCTGAGTGAAAATCAGCTTGCACCTGGAGAATTTCAGGTGTCAACTGACGGACGCTTG
TTTAGTCTGAAGCCAACATCCGGACCTGTCTTAACAGTAACTCTGTTTGGGAGGTTGTAT
GAGAAGGACTGGGCATCAAATGCTTCATCAGGCCTCACAGCACAAGCAAGAATAATAATG
CTAATAGTTATAGCACCTATTGTATGCTCATTAAGTTGGTAG

Clone variation with respect to NM_004666.2

5' Read Nucleotide Sequence:

>Reverse primer walk for NM_004666 unedited

ACATGGGATCCAGTTTACTTCAGGGTCTGGGATGTCCTCCAAATATGGGTAGAGAGAGTC
CCTGTTGAAGTTCCAGCCATAAATAGCATCTTCTGGAGTCACAATAATATGCGCACCCTG
ATCTGCTGCTGATGTGATCGCTCCTTCCAAAATGTCCAGATTCCGATTCATTAATGCCAA
AGCCTCCTCACGAGACACTGGTGTTAGGGTGGCATTGGGCAATATCGCTGCATGCTCATA
AACAGCTGCAGTGAAAGTGTCCTGGCAGCTGGCTCTTGAGACATAGAAAAGCAAAATTGC
CACGTAAGCTGGCAACTGAGTAGTCATGCGGCCGCCCTATAGTGAGTCGTATTACAAAAT
TCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCCACCGTACACGCCTACCGC
CCATTTGCGTCAACGGNGCGGGGTTATTACGACATTTTGGAAAGTCCCGTTGATTTTGGT
GCCAAAACANNACTCCATTGACGTCAATGGGGTGGAGACTTTGAAAATCCCCGTGAGTCA
AACCGCTATCCACGCCCATTGGTGTACTGGCAAAAACGCATCNACCATGGTAATACCGAT
GACTAATACGTAGATGTACTTGCCAGAGTAGGAAAAGTCCCGTTAAGGTCATGTACTTGG
GCATAATGGCCAGCCGGGCCAATTAACCGTCATTGACGTTCATAGGGGGGCGGACTTGGC
ATATGAAACAACTTGGAGGTCCTGGCA

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_004666 unedited
GTGTGCAACTTCCCGGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGA
TCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTT
TTTTGTTTTTGAAGTTTTTAATAATTCAAGCCTATCACCAACACATCAATATGTTTTCTG
TTTTACATTGAAATTATATGAGAATACAGAGAATTGCTCTGAGGATTCCTGTTTCTAAAT
ACATTATGGGCTTTCTTATTTTCTATTAGGTCTTGAAAAAAAGCAAATGTCAGTTAATGT
CACCCAAAAGAACAAGGGATTTTACTCAAATATTTCTTGGATGATATAGTACTTTTTAGG
AAAAACATCTGCCACAAAAATGTTTGTCTCAAAATGATGTTTTGCTGGCATAGATCACTA
CTGCAAGTGCCTTGCTCTCCTGTGCAGAAGGGCATGCTTTGCACAGTGCATGGCTGTTAT
CGGTACTATGTAATTGTCCATCATCACAGCACTATGATATTAGTGCTCAGAGTCTATCAG
TCAAGTGGGGAGATATTTTGGCTAAATGATGTTGTTCACTGAGTTGTGTATGTCAGAGAT
CTGCTGTACTAAATAAACAACATGCTATATAATATCTATTCTAATGGACTCCCGTTTCTA
TTCAGAGAATCATGATCATGTTCCTACAACATCACAN
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Restriction Sites: Please inquire

ACCN: NM_004666

Insert Size: 3200 bp

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).

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_004666.1, NP_004657.1

RefSeq Size: 3109 bp

RefSeq ORF: 1542 bp

Locus ID: 8876

UniProt ID: O95497

Cytogenetics: 6q23.2

Protein Pathways: Pantothenate and CoA biosynthesis

Gene Summary: This gene encodes a member of the vanin family of proteins, which share extensive sequence similarity with each other, and also with biotinidase. The family includes secreted and membrane-associated proteins, a few of which have been reported to participate in hematopoietic cell trafficking. No biotinidase activity has been demonstrated for any of the vanin proteins, however, they possess pantetheinase activity, which may play a role in oxidative-stress response. This protein, like its mouse homolog, is likely a GPI-anchored cell surface molecule. The mouse protein is expressed by the perivascular thymic stromal cells and regulates migration of T-cell progenitors to the thymus. This gene lies in close proximity to, and in the same transcriptional orientation as, two other vanin genes on chromosome 6q23-q24. [provided by RefSeq, Feb 2009]