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Product datasheet for RG223462

VNN1 (NM_004666) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VNN1 (NM_004666) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VNN1
Synonyms:	HDLCQ8; Tiff66
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG223462 representing NM_004666
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTACTCAGTTGCCAGCTTACGTGGCAATTTTGCTTTTCTATGTCTCAAGAGCCAGCTGCCAGGACA
CTTTCATTGCAGCTGTTTATGAGCATGCAGCGATATTGCCCAATGCCACCCTAACACCAGTGTCTCGTGA
GGAGGCTTTGGCATTAATGAATCGGAATCTGGACATTTTGGAAGGAGCGATCACATCAGCAGCAGATCAG
GGTGCGCATATTATTGTGACTCCAGAAGATGCTATTTATGGCTGGAACTTCAACAGGGACTCTCTCTACC
CATATTTGGAGGACATCCCAGACCCTGAAGTAAACTGGATCCCCTGTAATAATCGTAACAGATTTGGCCA
GACCCCAGTACAAGAAAGACTCAGCTGCCTGGCCAAGAACAACTCTATCTATGTTGTGGCAAATATTGGG
GACAAGAAGCCATGCGATACCAGTGATCCTCAGTGTCCCCCTGATGGCCGTTACCAATACAACACTGATG
TGGTATTTGATTCTCAAGGAAAACTGGTGGCACGCTACCATAAGCAAAACCTTTTCATGGGTGAAAATCA
ATTCAATGTACCCAAGGAGCCTGAGATTGTGACTTTCAATACCACCTTTGGAAGTTTTGGCATTTTCACA
TGCTTTGATATACTCTTCCATGATCCTGCTGTTACCTTGGTGAAAGATTTCCACGTGGACACCATAGTAT
TCCCAACAGCTTGGATGAATGTTTTGCCACATTTGTCAGCTGTTGAATTCCACTCAGCTTGGGCTATGGG
CATGAGGGTCAATTTCCTTGCATCCAACATACATTACCCCTCAAAGAAAATGACAGGAAGTGGCATCTAT
GCACCCAATTCTTCAAGAGCATTTCATTATGATATGAAGACAGAAGAGGGAAAACTCCTCCTCTCGCAAC
TGGATTCCCACCCATCCCATTCTGCAGTGGTGAACTGGACTTCCTATGCCAGCAGTATAGAAGCGCTCTC
ATCAGGAAACAAGGAATTTAAAGGCACTGTCTTTTTCGATGAATTCACTTTTGTGAAGCTCACAGGAGTT
GCAGGAAATTATACAGTTTGTCAGAAAGATCTCTGCTGTCATTTAAGCTACAAAATGTCTGAGAACATAC
CAAATGAAGTGTACGCTCTAGGGGCATTTGACGGACTGCACACTGTGGAAGGGCGCTATTATCTACAGAT
TTGTACCCTGTTGAAATGTAAAACGACTAATTTAAACACTTGCGGTGACTCAGCTGAAACAGCTTCTACC
AGGTTTGAAATGTTCTCCCTCAGTGGCACTTTCGGAACCCAGTATGTCTTTCCTGAGGTGTTGCTGAGTG
AAAATCAGCTTGCACCTGGAGAATTTCAGGTGTCAACTGACGGACGCTTGTTTAGTCTGAAGCCAACATC
CGGACCTGTCTTAACAGTAACTCTGTTTGGGAGGTTGTATGAGAAGGACTGGGCATCAAATGCTTCATCA
GGCCTCACAGCACAAGCAAGAATAATAATGCTAATAGTTATAGCACCTATTGTATGCTCATTAAGTTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

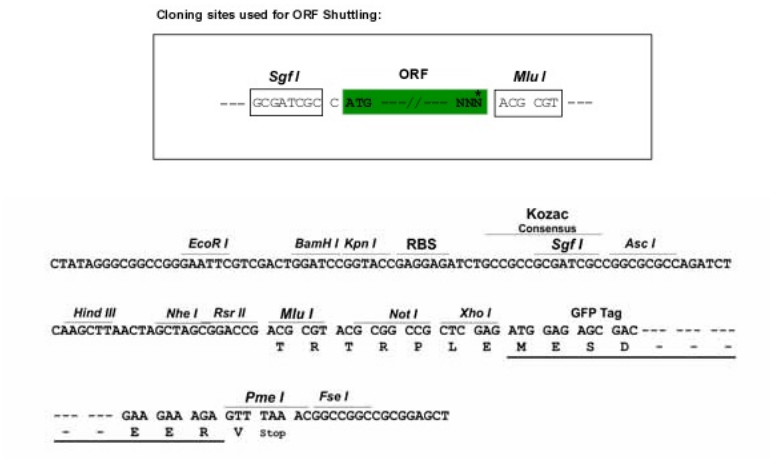
>RG223462 representing NM_004666
Red=Cloning site Green=Tags(s)

MTTQLPAYVAILLFYVSRASCQDTFIAAVYEHAAILPNATLTPVSREEALALMNRNLDILEGAITSAADQ
GAHIIVTPEDAIYGWNFNRDSLYPYLEDIPDPEVNWIPCNNRNRFGQTPVQERLSCLAKNNSIYVVANIG
DKKPCDTSDPQCPPDGRYQYNTDVVFDSQGKLVARYHKQNLFMGENQFNVPKEPEIVTFNTTFGSFGIFT
CFDILFHDPAVTLVKDFHVDTIVFPTAWMNVLPHLSAVEFHSAWAMGMRVNFLASNIHYPSKKMTGSGIY
APNSSRAFHYDMKTEEGKLLLSQLDSHPSHSAVVNWTSYASSIEALSSGNKEFKGTVFFDEFTFVKLTGV
AGNYTVCQKDLCCHLSYKMSENIPNEVYALGAFDGLHTVEGRYYLQICTLLKCKTTNLNTCGDSAETAST
RFEMFSLSGTFGTQYVFPEVLLSENQLAPGEFQVSTDGRLFSLKPTSGPVLTVTLFGRLYEKDWASNASS
GLTAQARIIMLIVIAPIVCSLSW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

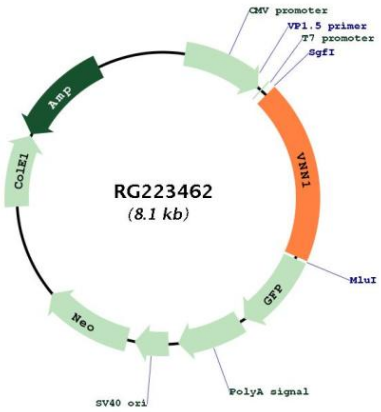


ACCN:	NM_004666
ORF Size:	1539 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_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]

Product images:



Circular map for RG223462