

Product datasheet for MR203958

Vash2 (NM_144879) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vash2 (NM_144879) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vash2
Synonyms:	B130052G07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203958 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTGCACGTTGCCAAGGTCCACCCAGAGGGGGAGAGATGGTAGGCGCCATCAGAAACGCTGCCT
TCCTGGCTAAGCCTTCAATTCACAGGTCCAACTACAGGTTGCCATGACGATCCAGACTGGCTCCA
GGCCATCCAGAATTACATGAAGACTCTACAATAACAACCACACAGGGACCCAGTTCCTTGAATCAGGAAA
ATGCGACCTCTGAGCGGGTAAATGGAGACAGCGAAGGAGATGACCCGAGAATCCTTGCCATCAAATGCC
TGGAGGCAGTCATCCTGGGCATCTATCTACCAATGGGCAGCCTTCCATTGAGCGGTTCCCTATCAGCTT
TAAACCTACTTCTCAGGAACTACTTTACCATGTCTGCTGGGATTTACTGCAACGGTTACTACGGT
TCACTGGGCATGAGCCGAAGGGCTGAGCTGATGGACAAGCCGCTGACCTTTCGGACTCTGAGTGACCTTG
TCTTTGACTTCGAAGATTCCTATAAGAAATACCTGCACACGGTTAAGAAGGTCAAGATCGGGCTGTACGT
CCCCACGAGCCGACAGCTTCCAGCCCATCGAGTGGAAGCAACTGTCTCAACGTCTCCAAGATGCTG
AGGGCTGACATCAGGAAGGAGCTGGAGAAGTACGCCAGGGACATGCGGATGAAGATCTTGAACCTGCAA
GTGCCACTCTCAACCAAGTGAGAAGCCGGGCAAGTCCCTGTCTCCACGAAGGAGACAAGCAAGCCC
TCCAAGGAGGCTCGGCAGGCGAGACAAATCGCCTGCTTGACCGAGAAGAAGGTGGCTGACCTCGGCACT
CTGAACGAAGTGGGCTATCAGATCCGGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR203958 protein sequence
Red=Cloning site Green=Tags(s)

MWLHVAKVHPRGGEMVGAIRNAAFLAKPSIPQVPNYRLSMTIPDWLQAIQNYMKTLYNHTGTQFFEIRK
 MRPLSGLMETAKEMTRESLPIKCLEAVILGIYLTNGQPSIERFPI SFKTYFSGNYFHHVVLGIYCNNGYYG
 SLGMSRRAELMDKPLTFRTLSDLVDFEDSYKKYLHTVKKVKIGLYVPEPHSFQPIEWKQLVLNVSKML
 RADIRKELEKYARDMRMKILKPASAHSPQVRSRGKSLSPRRRQASPPRRLGRRDKSPALTEKKVADLGT
 LNEVG YQIRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_144879

ORF Size: 873 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_144879.1](#), [NP_659128.1](#)

RefSeq Size: 4045 bp

RefSeq ORF: 1068 bp

Locus ID: 226841

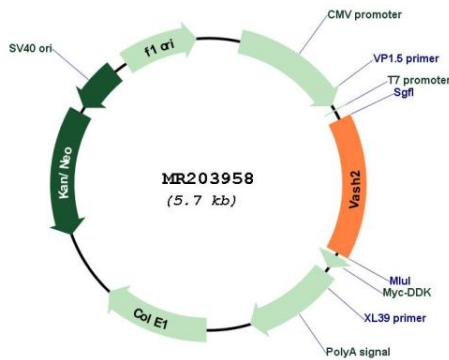
UniProt ID: [Q8C5G2](#)

Cytogenetics: 1 H6

MW: 33.5 kDa

Gene Summary: Tyrosine carboxypeptidase that removes the C-terminal tyrosine residue of alpha-tubulin, thereby regulating microtubule dynamics and function (PubMed:29146868). Acts as an activator of angiogenesis: expressed in infiltrating mononuclear cells in the sprouting front to promote angiogenesis (PubMed:19204325).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203958