

Product datasheet for MR222520

Vash1 (NM_177354) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vash1 (NM_177354) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vash1
Synonyms:	AI834978; D930046M13Rik; G630009D10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222520 representing NM_177354 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGGGGAAAGAAGGTGGTCCCAAGTGGCAGCAGCAGTGCCTCCCCGAACGCAGCCGCCACCACCA
CTGCTGCTGCTGCTGCTGCCGCTGCTGCCCCCACTCTGGCACTAAACGTTTGGAGACCACCGAAGGGGC
CTCAGCACAGAGAGATGAGGAACCCGAAGAGGAAGGGGAAGAGGACCTACGAGATGGAGGTGCCCTTT
TTCATCAACCGAGGTGGACTGCCAGTGGATGAGGCCACCTGGGAAAGGATGTGGAAGCATGTGCCAAGA
TCCACCCAGATGGAGAGAAGGTGGCCCTGCGCATCCGTGGGGCCACCGACCTGCCAAGATTCCCATACC
AAGTGTGCCTACTTTCCAGCCGACGACGCCCGTCCCTGAGCGCCTGGAAGCCGTGCAGCGCTACATCAGG
GAGCTGCAGTACAATCACACAGGACACAATTCTTTGAAATTAAGAAGAGCAGACCTCTGACGGGCTGA
TGGACCTGGCCAAGGAAATGACCAAGAGGCTCTGCCAATCAAATGCCTGGAAGCTGTGATCCTGGGAAT
TTACCTCACCAACAGTATGCCACCCCTGGAACGCTTTCCCATCAGCTTCAAGACCTATTTCTCAGGGAAC
TACTTCCGCCACATTGTGCTGGGGTGAAGTTCGGGGCCCGCTATGGCGCCCTGGGTATGAGCCGAAGGG
AGGACCTGATGTACAAACCGCCCGCTTCCGCACGCTCAGTGAGCTCGTGTGACTACGAAGCGGCCTA
CGGCCGCTGCTGGCACGTGCTGAAGAAGGTGAAGTGGTCAAGTGTGTCCCACGACCCGCACAGTGTG
GAACAGATTGAATGGAAGCACTCGTGGTGTGGAGAGGCTGGGGCGGGAAGACTTCCGCAAGGAGC
TGGAGCGTCATGCCCGAGACATGCGGCTCAAGATTGGCAAGGGGACAGGCCCTCCTTCTCCCAAGGA
CCGGAAGAAGGATGTTTCTCCACAGAGGGCCAGTCCAGCCCCATCGCAGGAACAGCCGAGTGGAG
AGACGGCCTTCAAGGGAGAAGAAGCCGACAGCCAAAGCCATGCCAGACCTCAGTGGTACCAGATCC
GGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222520 representing NM_177354
Red=Cloning site Green=Tags(s)

MPGGKKVVPSSSSASPNAATTTAAAAAAAAPHSGTKRLETTGASQRDEEPEEEGEEDLRDGGVPF
 FINRGGPLVDEATWERMWKHVAKIHPDGEKVALRIGATDLPKIPISVPTFQPTTPVPERLEAVQRYIR
 ELQYNHTGTQFFEIKKSRPLTGLMDLAKEMTKEALPIKCLEAVILGIYL TNSMPTLERFPI SFKTYFSGN
 YFRHIVLGVNFGGRYGALGMSRREDLMYKPPAFRTLSELVLDYEAA YGRCWHVLKKVKLGQCVSHDPHSV
 EQIEWKHSVLDVERLGREDFRKELEERHARDMRLKIGKGTGPPSP TKDRKKDVSSPQRAQSSPHRRNSRSE
 RRP SGEKKPAEPKAMPDLSGYQIRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9007_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177354

ORF Size: 1125 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_177354.4](#), [NP_796328.2](#)

RefSeq Size: 6189 bp

RefSeq ORF: 1128 bp

Locus ID: 238328

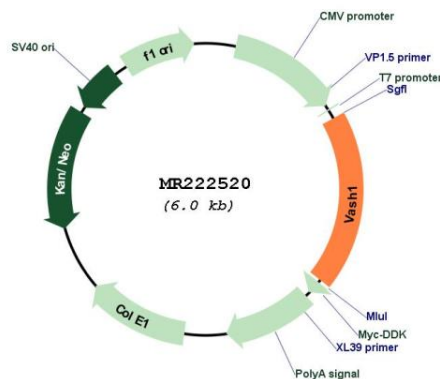
UniProt ID: [Q8C1W1](#)

Cytogenetics: 12 D2

MW: 42.3 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 angiogenesis inhibitor: inhibits migration, proliferation and network formation by endothelial cells as well as angiogenesis (PubMed:19204325). This inhibitory effect is selective to endothelial cells as it does not affect the migration of smooth muscle cells or fibroblasts (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222520