

Product datasheet for **MG203958**

Vash2 (NM_144879) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vash2 (NM_144879) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Vash2
Synonyms: B130052G07Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203958 representing NM_144879
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGGCTGCACGTTGCCAAGGTCCACCCAGAGGGGGAGAGATGGTAGGCGCCATCAGAAACGCTGCCT
 TCCTGGCTAAGCCTTCAATTCAGGTCACAACTACAGGTTGCCATGACGATCCAGACTGGCTCCA
 GGCCATCCAGAATTACATGAAGACTCTACAATAACAACCACACAGGGACCCAGTTCCTTTGAAATCAGGAAA
 ATGCGACCTCTGAGCGGTTAATGGAGACAGCGAAGGAGATGACCCGAGAATCCTTGCCATCAAATGCC
 TGGAGGACGTCATCCTGGGCATCTATCTACCAATGGGCAGCCTTCCATTGAGCGGTTCCCTATCAGCTT
 TAAACCTACTTCTCAGGAACTACTTTACCATGTCGTGCTGGGATTTACTGCAACGGTTACTACGGT
 TCACTGGGCATGAGCCGAAGGGCTGAGCTGATGGACAAGCCGCTGACCTTTCGGACTCTGAGTGACCTTG
 TCTTTGACTTCGAAGATTCCTATAAGAAATACCTGCACACGGTTAAGAAGTCAAGATCGGGCTGTACGT
 CCCCCACGAGCCGACAGCTTCCAGCCATCGAGTGGAAGCAACTGTCTCAACGTCTCCAAGATGCTG
 AGGGCTGACATCAGGAAGGAGCTGGAGAAGTACGCCAGGGACATGCGGATGAAGATCTTGAACCTGCAA
 GTGCCACTCTCAACCAAGTGAAGCCGGGCAAGTCCCTGTCTCCACGAAGGAGACAAGCAAGCCC
 TCCAAGGAGGCTCGGCAGGCGAGACAAATCGCCTGCTTGACCGAGAAGAAGTGGCTGACCTCGGCACT
 CTGAACGAAGTGGGCTATCAGATCCGGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203958 representing NM_144879
Red=Cloning site Green=Tags(s)

MWLHVAKVHPRGGEMVGAIRNA AFLAKPSIPQVPNYRLSMTIPDWLQAIQNYMKT LQYNHTGTQFFEIRK
 MRPLSGLMETAKEMTRESLPIKCLEAVILGIYLTNGQPSIERFPI SFKTYFSGNYFHHVVLGIYCNGYYG
 SLGMSRRAELMDKPLTFRTLSDLVDFEDSYKKYLHTVKKVKIGLYVPHEPHSFQPIEWKQLVLNVSKML
 RADIRKELEKYARDMRMKILKPASAHSP TQVRSRGKSLSPRRRQASPPRRLGRRDKSPALTEKKVADLGT
 LNEVGYQIRI

TRTRPLE - GFP Tag - V

Restriction Sites:

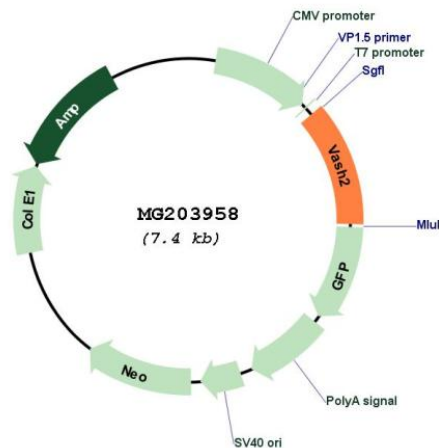
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_144879

ORF Size: 870 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:	<ol style="list-style-type: none">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:	3782 bp
RefSeq ORF:	1068 bp
Locus ID:	226841
UniProt ID:	Q8C5G2
Cytogenetics:	1 H6
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]