

Product datasheet for **RG227891**

VASH2 (NM_001136474) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VASH2 (NM_001136474) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VASH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227891 representing NM_001136474 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGATGCACGTGGCCAAGGTGCACCCTAAGGGGGGAGAAATGGTGGGCGCCATCAGGAACGCCGCCT
TCTTGGCAAAGCCTTCAATACCCAGGTCCAAACTACAGGCTGTCGATGACGATCCCAGACTGGCTCCA
GGCGATCCAGAATTACATGAAGACCCTACAATAATCACACAGGGACCCAGTTCTTTGAAATTAGGAAA
ATGAGACCGCTGAGTGGGTTAATGGAAACAGCAAAGAAATGACCCGAGAGTCCTTGCCATCAAATGCC
TTGAAGCTGTCATCCTGGGCATCTACTTAACCAATGGGCAGCTTCCATTGAGCGGTTCCCATCAGCTT
TAAAACCTACTTCTCAGGAACTACTTTACCAGTTGTGCTGGGATTTACTGCAATGGCCGCTATGGC
TCATTGGGCATGAGCCGAGGGCTGAGCTGATGGACAAGCCATTGACTTTTCGGACTCTGAGTGACCTCA
TCTTTGACTTTGAGGACTCTTACAAGAAATACCTGCACACAGTCAAGAAGGTCAAGATTGGGCTGTACGT
CCCCCATGAGCCTCATAGCTTCCAGCCATTGAGTGGAAGCAGCTGGTCCCAACGTCTCAAAGATGCTG
AGGGCTGACATAAGGAAGGAGCTGGAGAAATATGCCAGGGACATGAGAATGAAGATCCTGAAACCTGCAA
GTGCCACTCTCCGACCAAGTGAGAAGCCGGGAAAAATCCCTGTCCCCCAGAAGGAGACAGGCAAGCCC
CCCAGGAGGCTCGGCCGCGAGAGAAGTCGCCTGCACCTGCTGAAAAGAAGGTGGCTGATCTGAGCACT
CTGAATGAAGTGGCTATCAAATCCGAATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227891 representing NM_001136474
Red=Cloning site Green=Tags(s)

MWMHVAKVHPKGGEMVGAIRNA AFLAKPSIPQVPNYRLSMTIPDWLQAIQNYMKTLYNHTGTQFFEIRK
 MRPLSGLMETAKEMTRESLPIKCLEAVILGIYLTNGQPSIERFPI SFKTYFSGNYFHHVVLGIYCNGRYY
 SLGMSRRAELMDKPLTFRTLSDLIFDFEDSYKKYLHTVKKVKIGLYVPHEPHSFQPIEWKQLVLNVSKML
 RADIRKELEKYARDMRMKILKPASAHSP TQVRSRGKSLSPRRRQASPPRRLGRREKSPALPEKKVADLST
 LNEVG YQIRI

TRTRPLE - GFP Tag - V

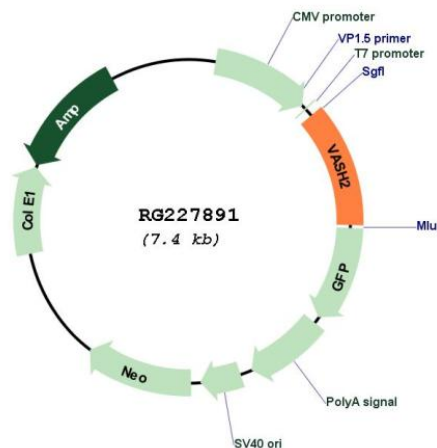
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001136474

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_001136474.3
RefSeq Size:	4273 bp
RefSeq ORF:	873 bp
Locus ID:	79805
UniProt ID:	Q86V25
Cytogenetics:	1q32.3
Gene Summary:	Tyrosine carboxypeptidase that removes the C-terminal tyrosine residue of alpha-tubulin, thereby regulating microtubule dynamics and function (PubMed:29146869). Acts as an activator of angiogenesis: expressed in infiltrating mononuclear cells in the sprouting front to promote angiogenesis (PubMed:19204325).[UniProtKB/Swiss-Prot Function]