

Product datasheet for **RG208728**

VASH1 (NM_014909) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VASH1 (NM_014909) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VASH1
Synonyms:	KIAA1036; TTCP 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208728 representing NM_014909 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGGGGGGAAGAAGGTGGCTGGGGGTGGCAGCAGCGGTGCCACTCCAACGTCGCTGCGGCCACCG
CCCCCTCTGGGGTCAGGCGTTTGGAGACCAGCGAAGGAACCTCAGCCCAGAGAGATGAGGAGCCAGAAGA
GGAAGGGGAAGAGGACCTGCGAGACGGAGGCGTCCCCTTCTTTGTCAACCGGGGTGGGCTACCTGTGGAT
GAGGCCACCTGGGAAAGGATGTGAAACACGTGGCCAAGATCCACCCGATGGAGAGAAGGTGGCGCAAC
GGATCCGTGGGGCCACAGACCTGCCAAGATCCCATAACCGAGTGTGCCTACGTTCCAGCCGTCTACACC
TGTCCCTGAGCGCCTGGAAGCTGTGCAGCGCTACATCAGAGAGCTGCAGTACAATCACACAGGGACACAG
TTCTTTGAAATTAAGAAGAGCAGACCTCTGACAGGGCTGATGGACCTGGCCAAGGAAATGACCAAAGAGG
CCCTGCCAATCAAATGCCTGGAAGCCGTGATCCTGGGAATTTACCTCACCAACAGCATGCCACCCTGGA
GCGCTTCCCCATCAGCTTCAAGACCTACTTCTCAGGGAACACTTCCGCCACATCGTGCTGGGGGTGAAC
TTCGCGGGCCGCTACGGTGCCTGGGCATGAGTCGGCGCAGGACCTGATGTACAAGCCGCCCGCTTCC
GCACGCTCAGCGAGCTCGTGCTGGACTTCGAGGCCGCCTACGGCCGCTGCTGGCAGTGTCAAGAAGGT
GAAGCTGGGCCAGAGCGTGTACACGACCCGCACAGCGTGGAGCAGATCGAGTGGAAAGCACTCGGTGCTG
GACGTGGAGCGCCTGGGCCGATGACTTCCGCAAGGAGCTGGAGCGCCACGCCGACATGCGGCTCA
AGATTGGCAAAGGGACGGCCCTCCCTCTCCACCAAGGACCGGAAGAAGGATGTTTCTTCCCGCAGCG
GGCCAGTCCAGCCCCACCGCAGGAACAGCCGAGTGAAGACGGCCCTCGGGTACAAGAAGACTTCC
GAGCCAAAGCCATGCCAGACCTTAACGGTACCAGATCCGGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208728 representing NM_014909
 Red=Cloning site Green=Tags(s)

MPGGKKVAGGGSSGATPTSAAATAPSGVRRLETSEGTSARDEEPEEEGEDLRDGGVPPFVNRGGLPVD
 EATWERMWKHVAKIHPDGEKVAQRIRGATDLPKIPISVPTTFQPSTPVPERLEAVQRYIRELQYNHTGTQ
 FFEIKKSRPLTGLMDLAKEMTKALPIKCLEAVILGIYLTNSMPTLERFPI SFKTYFSGNYFRHIVLGVN
 FAGRYGALGMSRREDLMYKPPAFRTLSELVLDFAAYGRCWHVLLKVKLGQSVSHDPHSVEQIEWKHSLV
 DVERLGRDDFRKELERHARDMRLKIGKGTGPPSPTKDRKKDVSSPQRAQSSPHRRNSRSERRPSGDKKTS
 EPKAMPDLNGYQIRV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014909

ORF Size: 1095 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014909.5](#)

RefSeq Size: 5747 bp

RefSeq ORF: 1098 bp

Locus ID: 22846

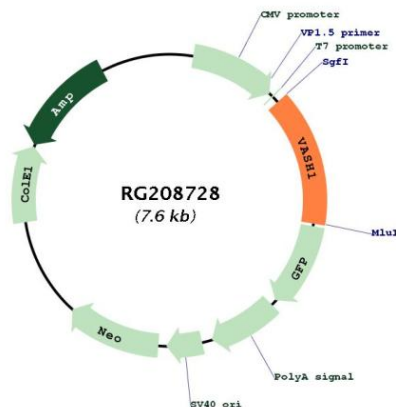
UniProt ID: [Q7L8A9](#)

Cytogenetics: 14q24.3

Protein Families: Secreted Protein

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 angiogenesis inhibitor: inhibits migration, proliferation and network formation by endothelial cells as well as angiogenesis (PubMed:15467828, PubMed:16488400, PubMed:16707096, PubMed:19204325). This inhibitory effect is selective to endothelial cells as it does not affect the migration of smooth muscle cells or fibroblasts (PubMed:15467828, PubMed:16488400, PubMed:16707096).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208728