

Product datasheet for **RG203544**

VASP (NM_003370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VASP (NM_003370) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203544 representing NM_003370 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGATGCTTTATGATGATGGCAACAAGCGAT
GGCTCCCTGCTGGCAGCGGTCCCCAGGCCCTTCAGCCGCGTCCAGATCTACCACAACCCACCGCCAAATTC
CTTTCGCGTCGTGGGCCGAAGATGCAGCCCGACCAGCAGGTGGTCATCAACTGTGCCATCGTCCGGGT
GTCAAGTATAACCAGGCCACCCCAACTTCCATCAGTGGCGGACGCTCGCCAGGTCTGGGCCTCAACT
TCGGCAGCAAGGAGGATGCGGCCAGTTTGCCCGGCATGGCCAGTCCCTAGAGCGGTTGGAAGGAGG
TGGGCCCTCCACCCAGCACTTCCACCTGGTCGGTCCCGAACGGCCCTCCCGGAGGAGGTGGAG
CAGCAGAAAAGGCAGCAGCCCGCCGTCGGAGCAGATAGAGCGCCGGTCTCCAATGCAGGAGGCCAC
CTGCTCCCCCGCTGGGGTCCACCCACCAGGACCTCCCCTCCTCCAGGTCCCCCCCCACCC
AGGTTTGCCCTTCGGGGTCCAGCTGCAGCGCACGGAGCAGGGGAGGACCACCCCTGCACCCCT
CTCCCGCAGCACAGGGCCTGGTGGTGGGGAGCTGGGGCCCGAGCCTGGCCGAGCTATTGCTGGAG
CCAAACTCAGGAAAGTCAGCAAGGAGGAGGCTCAGGGGGCCACAGCCCCAAAGCTGAGAGTGGTGC
AAGCGGAGGTGGGGACTCATGGAAGAGATGAACGCCATGCTGGCCGGAGAAGGAAAGCCACGCAAGTT
GGGAGAAAACCCCAAGGATGAATCTGCCAATCAGGAGGAGCCAGAGGCCAGAGTCCCGCCAGAGTG
AATCTGTGCGGAGACCCTGGGAGAAGAAGCAGCACAACTTGCCAAGGATGAAGTCGCTTCTTCGGTGAC
CACTTCCGAGACCAACCTGCACGCCAGCTCCAGTGATTACTCGGACCTACAGAGGTTGAAACAGGAG
CTTCTGGAAGAGGTGAAGAAGGAATTGCAGAAAGTGAAGAGGAAATCATTGAAGCCTTCGTCAGGAGC
TGAGGAAGCGGGTTCTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG203544 representing NM_003370
 Red=Cloning site Green=Tags(s)

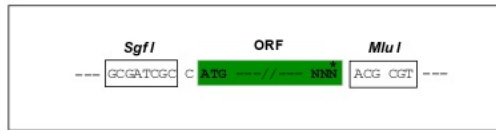
MSSETVICSSRATVMLYDDGNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGRKMOPDQQVVINCAIVRG
 VKYNQATPNFHQWRDARQVWGLNFGSKEDAAQFAAGMASALEALEGGPPPPPPALPTWSVPNGPSPEEVE
 QQKRQQPGPSEHIERRVSNAGGPPAPPAGGPPPPPPGPPPPPPGLPPSGVPAAAHGAGGGPPPPAPP
 LPAAQGGGGGAGAPGLAAAIAGAKLRKVSKEEASGGPTAPKAESGRSGGGGLMEEMNAMLARRRKATQV
 GEKTPKDESANQEPEARVPAQSESVRRPWKEKNSTTLPRMKSSSSVTTSETQPCTPSSSDYSDLQRVKQE
 LLEEVKKELQKVKEEIEAFVQELRKRKRGSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_003370

ORF Size: 1140 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_003370.3](#), [NP_003361.1](#)

RefSeq Size: 2298 bp

RefSeq ORF: 1143 bp

Locus ID: 7408

UniProt ID: [P50552](#)

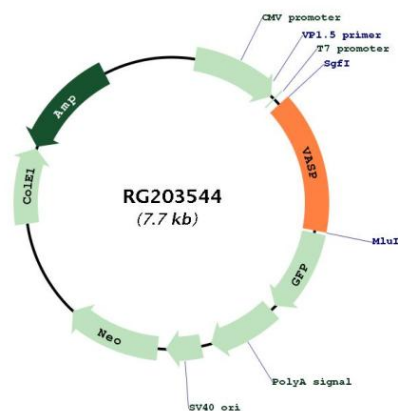
Cytogenetics: 19q13.32

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Fc gamma R-mediated phagocytosis, Focal adhesion, Leukocyte transendothelial migration

Gene Summary: Vasodilator-stimulated phosphoprotein (VASP) is a member of the Ena-VASP protein family. Ena-VASP family members contain an EHV1 N-terminal domain that binds proteins containing E/DFPPPPXD/E motifs and targets Ena-VASP proteins to focal adhesions. In the mid-region of the protein, family members have a proline-rich domain that binds SH3 and WW domain-containing proteins. Their C-terminal EVH2 domain mediates tetramerization and binds both G and F actin. VASP is associated with filamentous actin formation and likely plays a widespread role in cell adhesion and motility. VASP may also be involved in the intracellular signaling pathways that regulate integrin-extracellular matrix interactions. VASP is regulated by the cyclic nucleotide-dependent kinases PKA and PKG. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203544