

Product datasheet for RC203544L3

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OriGene Technologies, Inc.

VASP (NM_003370) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: VASP (NM_003370) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: VASP

Mammalian Cell Puromycin

Selection:

Vector:

pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The 0

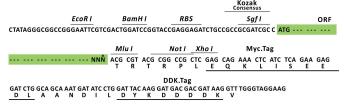
Sequence:

The ORF insert of this clone is exactly the same as(RC203544).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_003370 **ORF Size:** 1140 bp



VASP (NM_003370) Human Tagged Lenti ORF Clone - RC203544L3

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: <u>NM 003370.3</u>

 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

MW: 40.3 kDa

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/DFPPPXD/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]