

## Product datasheet for **MC227297**

### Vasp (NM\_001282022) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vasp (NM_001282022) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vasp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227297 representing NM_001282022 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGAGACGGTCATCTGTTCCAGCCGGGCTACTGTGATGCTTTATGATGACAGCAACAAGCGATGGC  
TCCCTGCTGGCACTGGTCCCAGGCCTTCAGCCGCTCCAGATCTACCACAACCCCACTGCTAACTCCTT  
CCGAGTTGTTGGCCGCAAGATGCAGCCGGATCAGCAGGTGGTTATCAACTGTGCCATCATTCGGGGTGTC  
AAGTACAATCAGGCCACTCCCATCTTCCATCAGTGGCGAGATGCCCGCCAGGTCTGGGGCCTCAACTTCG  
GCAGCAAGGAGGACGCCATACAGTTTGCAACAGGAGGTGGGCCTCCCCAGCCCCAGCACCCCTGCCTG  
GTCTGCCAGAATGGTCCCTCCCAGAGGAGCTGGAACAACAGAAAAGGCAGCCGGAGCATATGGAGCGC  
CGGGTCTCCAATGCAGGAGGCCACCTGCTCCCCAGCTGGGGCCCTCCTCCACCTCCAGGACCTCCCC  
CTCCTCCAGTCCCCCCCCACCCCAAGTCTGCCCTCCTCAGGGTATCTGGGCAGGTCATGGAGCAGG  
GGCAGCCCCACCCCTGCACCCCACTCCCTACAGCACAGGGCCCAATAGTGGGGTTCGGGGCCCCA  
GGCCTGGCTGCTGCCATTGCTGGAGCCAACTCAGGAAAGTGAGCAAGCAGGAGGAGGCTCTGGGGGGC  
CCCTGGCCCCAAAGCTGAGAACAGTCGAAGCACTGGTGGGGGGCTTATGGAAGAGATGAACGCCATGCT  
GGCCCGGAGAAGAAAAGCCACACAGGTTGGGGAGAAGCCCCAAAGACGAGTCAGCCAGTGAGGAGTCA  
GAGGCCGACTCCCTGCCAGAGTGAACCTGTGAGAAGACCTGGGAGAAGAAGCAGCACAACCTTGCCAA  
GGATGAAGTCGTCTTCTGTGACTACCTCCGAGGCCACCCCTCGACGCCCTGCTCCAGTGATGACTC  
CGACTTGAGAGGGTGAAGCAGGAGCTTCTGGAAGAGGTGCGGAAGGAGCTACAGAAAATGAAAGAGGAA  
ATCATCGAAGTCTTTGTCCAGGAGCTGAGGAAGCGGGTTCTCCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001282022
Insert Size:	1098 bp



[View online »](#)

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001282022.1, NP_001268951.1</u>
<b>RefSeq Size:</b>	2237 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	22323
<b>UniProt ID:</b>	<u>P70460</u>
<b>Cytogenetics:</b>	7 A3
<b>Gene Summary:</b>	<p>Ena/VASP proteins are actin-associated proteins involved in a range of processes dependent on cytoskeleton remodeling and cell polarity such as axon guidance, lamellipodial and filopodial dynamics, platelet activation and cell migration. VASP promotes actin filament elongation. It protects the barbed end of growing actin filaments against capping and increases the rate of actin polymerization in the presence of capping protein. VASP stimulates actin filament elongation by promoting the transfer of profilin-bound actin monomers onto the barbed end of growing actin filaments. Plays a role in actin-based mobility of <i>Listeria monocytogenes</i> in host cells. Regulates actin dynamics in platelets and plays an important role in regulating platelet aggregation (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1.</p>