

## Product datasheet for MR205851

### Vasp (NM\_009499) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vasp (NM_009499) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vasp
Synonyms:	AA107290
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205851 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGCGAGACGGTCATCTGTTCCAGCCGGGCTACTGTGATGCTTTATGATGACAGCAACAAGCGATGGC  
TCCCTGCTGGCACTGGTCCCGAGCCTTCAGCCCGCTCCAGATCTACCACAACCCCACTGCTAACTCCTT  
CCGAGTTGTTGGCCGCAAGATGCAGCCGGATCAGCAGGTGGTTATCAACTGTGCCATCATTCCGGGGTGC  
AAGTACAATCAGGCCACTCCCATCTCCATCAGTGGCGAGATGCCCGCCAGGTCTGGGGCCTCAACTTCG  
GCAGCAAGGAGGACGCCATACAGTTTGAACAGGCATGGCCAACGCCCTAGAGGCCTTGAAGGAGGTGG  
GCCTCCCCAGCCCCAGCACCCCTGCCTGGTCTGCCAGAATGGTCCCTCCCCAGAGGAGCTGGAACAA  
CAGAAAAGGCAGCCGGAGCATATGGAGCGCCGGTCTCCAATGCAGGAGGCCACCTGCTCCCCAGCTG  
GGGGCCCTCCTCCACCTCCAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCAAGTCTGCCCTCCTC  
AGGGGTATCTGGGGCAGGTATGGAGCAGGGGCAGCCCCACCCCTGCACCCCACTCCCTACAGCACAG  
GGCCCAATAGTGGGGTCCGGGGCACCAGGCCTGGTCTGCTGCCATTGCTGGAGCAAACCTCAGGAAAG  
TGAGCAAGCAGGAGGAGGCTCTGGGGGGCCCTGGCCCCAAAGCTGAGAACAGTGAAGCACTGGTGG  
GGGGCTTATGGAAGAGATGAACGCCATGCTGGCCCGGAGAAGAAAAGCCACACAGGTTGGGGAGAAGCCC  
CCCAAAGACGAGTCAGCCAGTGAGGAGTCAGAGGCCGACTCCTGCCAGAGTGAACCTGTGAGAAGAC  
CCTGGGAGAAGAACAGCACAACTTGCCAAGGATGAAGTCGTCCTCTTCTGTGACTACCTCCGAGGCCCA  
CCCCTCGACGCCCTGCTCCAGTGATGACTCCGACTTGGAGAGGGTGAAGCAGGAGCTTCTGGAAGAGGTG  
CGGAAGGAGCTACAGAAAATGAAAGAGGAAATCATCGAAGTCTTTGTCCAGGAGCTGAGGAAGCGGGTT  
CTCCT

**ACGGT**ACGGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR205851 protein sequence  
Red=Cloning site Green=Tags(s)

MSETVICSSRATVMLYDDSNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGSRKMQPDQQVVINCAIRGV  
 KYNQATPIFHQWRDARQVWGLNFGSKEDIAIQFATGMANALEALEGGGPPAPAPPAWSAQNGPSPEELEQ  
 QKRQPEHMERRVSNAGGPPAPPAGGPPPPPPGPPPPPPGLPSSGVSAGHGAGAAPPAPPLPTAQ  
 GPNSSGGSGAPGLAAAIAGAKLRKYSKQEEASGGPLAPKAENSRSTGGGLMEEMNAMLARRRKATQVGEKP  
 PKDESASEESEARLPAQSEPVRPWEKNSTTLPRMKSSSSVTTSEHPSTPCSSDDSDLERYVKQELLEEV  
 RKELQKMKKEEIIIEVFVQELRKRKGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009499

**ORF Size:** 1128 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\\_009499.1](#), [NM\\_009499.2](#), [NM\\_009499.3](#), [NP\\_033525.1](#), [NP\\_033525.2](#)

**RefSeq Size:** 2267 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 22323

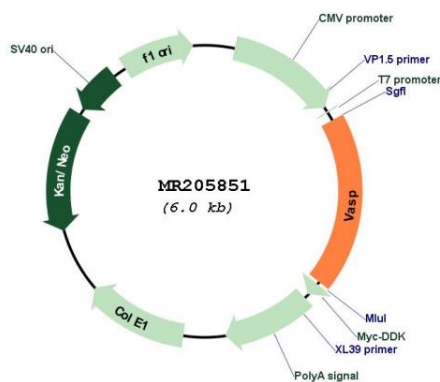
**UniProt ID:** [P70460](#)

**Cytogenetics:** 7 A3

**MW:** 39.7 kDa

**Gene Summary:** 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 *Listeria monocytogenes* in host cells. Regulates actin dynamics in platelets and plays an important role in regulating platelet aggregation (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205851