

## Product datasheet for **MR229508**

### Vasp (NM\_001282022) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vasp (NM\_001282022) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Vasp  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR229508 representing NM\_001282022  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGAGACGGTCATCTGTTCCAGCCGGGCTACTGTGATGCTTTATGATGACAGCAACAAGCGATGGC  
TCCCTGCTGGCACTGGTCCCGAGCCTTCAGCCGCGTCCAGATCTACCACAACCCCACTGCTAACTCCTT  
CCGAGTTGTTGGCCGCAAGATGCAGCCGGATCAGCAGGTGGTTATCAACTGTGCCATCATTCGGGGTGTC  
AAGTACAATCAGGCCACTCCCATCTTCCATCAGTGGCGAGATGCCCGCCAGGTCTGGGGCCCAACTTCG  
GCAGCAAGGAGGACGCCATACAGTTTGCAACAGGAGGTGGGCCTCCCCAGCCCCAGCACCCCTGCCTG  
GTCTGCCAGAATGGTCCCTCCCCAGAGGAGCTGGAACAACAGAAAAGGCAGCCGGAGCATATGGAGCGC  
CGGGTCTCCAATGCAGGAGGCCACCTGCTCCCCAGCTGGGGCCCTCCTCCACCTCCAGGACCTCCCC  
CTCCTCCAGGTCCCCCCCCACCCCAAGTCTGCCCTCCTCAGGGGTATCTGGGCAGGTGATGGAGCAGG  
GGCAGCCCCACCCCTGCACCCCACTCCCTACAGCACAGGGCCCAATAGTGGGGTTCGGGGCCCCA  
GGCCTGGCTGCTGCCATTGCTGGAGCCAACTCAGGAAAGTGAGCAAGCAGGAGGAGCCCTGGGGGGC  
CCCTGGCCCCAAAGCTGAGAACAGTGAAGCACTGGTGGGGGCTTATGGAAGAGATGAACGCCATGCT  
GGCCCGGAGAAGAAAAGCCACACAGGTTGGGGAGAAGCCCCAAAGACGAGTCAGCCAGTGAGGAGTCA  
GAGGCCGACTCCCTGCCAGAGTGAACCTGTGAGAAGACCTGGGAGAAGAAGCAGCACAACCTTGCCAA  
GGATGAAGTCGTCTTCTGTGACTACCTCCGAGGCCACCCCTCGACGCCCTGCTCCAGTGATGACTC  
CGACTTGGAGAGGGTGAAGCAGGAGCTTCTGGAAGAGGTGCGGAAGGAGCTACAGAAAATGAAAGAGGAA  
ATCATCGAAGTCTTTGTCCAGGAGCTGAGGAAGCGGGTTCTCT

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229508 representing NM\_001282022  
 Red=Cloning site Green=Tags(s)

MSETVICSSRATVMLYDDSNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGRKMQPDPQQVVINCAIRGV  
 KYNQATPIFHQWRDARQVWGLNFGSKEDAIQFATGGGPPAPAPPAWSAQNGPSPEELEQQKRQPEHMER  
 RVSNAGGPPAPPAGGPPPPGPPPPGPPPPGLPSSGVSAGHGAGAAPPAPLPPTAQGPNSGGSGAP  
 GLAAAIAGAKLRKYSKQEEASGGPLAPKAENSRSTGGGLMEEMNAMLARRRKATQVGEKPPKDESASEES  
 EARLPAQSEPVRPWEKNSTTLPRMKSSSVTTSEAHSPSTPCSSDDSLERVKQELLEEVKELQKMKEE  
 IIEVFVQELRKRKGGSP

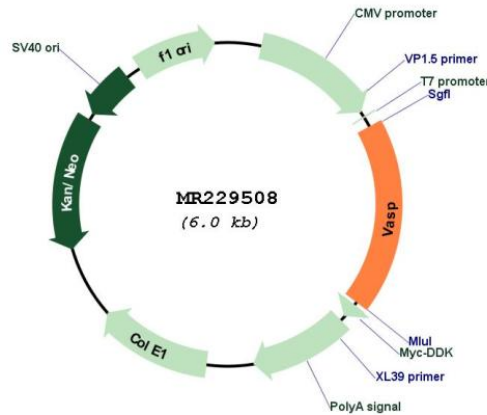
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001282022

<b>ORF Size:</b>	1095 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001282022.1</a> , <a href="#">NP_001268951.1</a>
<b>RefSeq Size:</b>	2237 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	22323
<b>UniProt ID:</b>	<a href="#">P70460</a>
<b>Cytogenetics:</b>	7 A3
<b>MW:</b>	39.1 kDa
<b>Gene Summary:</b>	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]