

Product datasheet for **MR229563**

Vasp (NM_001282021) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vasp (NM_001282021) 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: >MR229563 representing NM_001282021
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGAGACGGTCATCTGTCCAGCCGGGCTACTGTGATGCTTTATGATGACAGCAACAAGCGATGGC
TCCCTGCTGGCACTGGTCCCGAGGCTTCAGCCGCGTCCAGATCTACCACAACCCCACTGCTAACTCCTT
CCGAGTTGTTGGCCGCAAGATGCAGCCGGATCAGCAGGTGGTTATCAACTGTGCCATCATTGGGGTGTC
AAGTACAATCAGGCCACTCCCATCTTCCATCAGTGCGGAGATGCCCGCCAGGTCTGGGGCCTCAACTTCG
GCAGCAAGGAGGACGCCATACAGTTTGCAACAGGCATGGCCAACGCCCTAGAGGCCTTGAAGGAGGTGG
GCCTCCCCAGCCCCAGCACCCCTGCCTGGTCTGCCAGAATGGTCCCTCCCCAGAGGAGCTGGAACAA
CAGAAAAGGCAGCCGGAGCATAATGGAGCGCCGGTCTCCAATGCAGGAGGCCACCTGCTCCCCAGCTG
GGGGCCTCCTCCACCTCCAGGACCTCCCCCTCCTCCAGTCCCCCCCCACCCCAAGTCTGCCCTCCTC
AGGGGTATCTGGGCAGGTGATGGAGCAGGGGCAGCCCCACCCCTGCACCCCACTCCTACAGCACAG
GGCCCCAATAGTGGGGTCCGGGGCCCCAGGCCTGGTGGTCCATTGCTGGAGCCAACTCAGGAAAG
TGAGCAAGGAGGAGGCCCTGGGGGGCCCCGGCCCCAAAGCTGAGAACAGTGAAGCACTGGTGGGGG
GCTTATGGAAGAGATGAACGCCATGCTGGCCCGGAGAAGAAAAGCCACACAGTTGGGGAGAAGCCCCC
AAAGACGAGTCAGCCAGTGAAGGAGTCAAGGAGCCGACTCCCTGCCAGAGTGAACCTGTGAGAAGACCT
GGGAGAAGAACAGCACAACTTGCCAAGGATGAAGTCGTCCTTCTGTGACTACCTCCGAGGCCACCC
CTCGACGCCCTGCTCCAGTGAAGTACTCCGACTTGGAGAGGGTGAAGCAGGAGCTTCTGGAAGAGGTGCGG
AAGGAGCTACAGAAAATGAAAGAGGAAATCATCGAAGTCTTTGTCCAGGAGCTGAGGAAGCGGGTTCTC
CT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229563 representing NM_001282021
 Red=Cloning site Green=Tags(s)

MSETVICSSRATVMLYDDSNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGSRKMQDPDQVVINCAIRGV
 KYNQATPIFHQWRDARQVWGLNFGSKEDAIQFATGMANALEALEGGGPPAPAPPAWSAQNGPSPEELEQ
 QKRQPEHMERRVSNAGGPPAPPAGGPPPPPPGPPPPPPGLPSSGVSAGHGAGAAPPAPPLPTAQ
 GPNSSGGSGAPGLAAAIAGAKLRKVSKEEASGGPLAPKAENSRSTGGGLMEEMNAMLARRRKATQVGEKPP
 KDESASEESEARLPAQSEPVRRPWEKNSTTLPRMKSSSVTTSEHPSTPCSSDDSDLERVKQELLEEV
 KELQMKKEEIIIEVFVQELRKRKRGSP

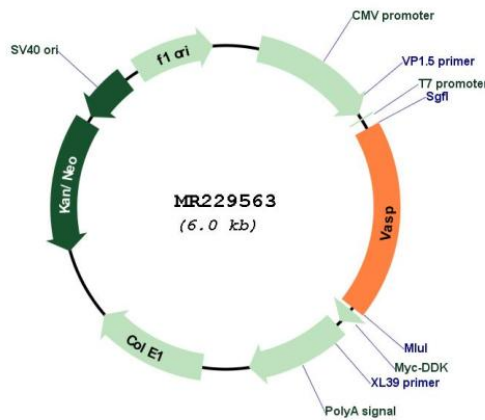
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282021

| | |
|-------------------------------|---|
| ORF Size: | 1122 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: | <ol style="list-style-type: none">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_001282021.1 , NP_001268950.1 |
| RefSeq Size: | 2264 bp |
| RefSeq ORF: | 1125 bp |
| Locus ID: | 22323 |
| UniProt ID: | P70460 |
| Cytogenetics: | 7 A3 |
| MW: | 40 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] |