

Product datasheet for **MG205851**

Vasp (NM_009499) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vasp (NM_009499) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vasp
Synonyms:	AA107290
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205851 representing NM_009499 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGAGACGGTCATCTGTTCCAGCCGGGCTACTGTGATGCTTTATGATGACAGCAACAAGCGATGGC
TCCCTGCTGGCACTGGTCCCCAGGCCTTCAGCCCGCTCCAGATCTACCACAACCCCACTGCTAACTCCT
CCGAGTTGTTGGCCGCAAGATGCAGCCGGATCAGCAGGTGGTTATCAACTGTGCCATCATTGGGGTGTC
AAGTACAATCAGGCCACTCCCATCTCCATCAGTGGCGAGATGCCCGCCAGGTCTGGGGCCTCAACTTCG
GCAGCAAGGAGGACGCCATACAGTTTGAACAGGCATGGCCAACGCCCTAGAGGCCTTGAAGGAGGTGG
GCCTCCCCAGCCCCAGCACCCCTGCCTGGTCTGCCAGAAATGGTCCCTCCCCAGAGGAGCTGGAACAA
CAGAAAAGGCAGCCGGAGCATATGGAGCGCCGGTCTCCAATGCAGGAGGCCACCTGCTCCCCAGCTG
GGGGCCCTCCTCCACCTCCAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCAAGTCTGCCCTCCTC
AGGGGTATCTGGGGCAGGTATGGAGCAGGGGCAGCCCCACCCCTGCACCCCACTCCCTACAGCACAG
GGCCCCAATAGTGGGGTTCGGGGCACCAGGCCTGGTCTGCCATTGCTGGAGCAAACCTCAGGAAAG
TGAGCAAGCAGGAGGAGGCTCTGGGGGGCCCCGGCCCCAAAGCTGAGAACAGTGAAGCACTGGTGG
GGGGCTTATGGAAGAGATGAACGCCATGCTGGCCCGGAGAAGAAAAGCCACACAGGTTGGGGAGAAGCCC
CCCAAAGACGAGTCAGCCAGTGAGGAGTCAGAGGCCGACTCCTGCCAGAGTGAACCTGTGAGAAGAC
CCTGGGAGAAGAACAGCACAACTTGCCAAGGATGAAGTCGTCCTCTTCTGTGACTACCTCCGAGGCCCA
CCCCTCGACGCCCTGCTCCAGTGATGACTCCGACTTGGAGAGGGTGAAGCAGGAGCTTCTGGAAGAGGTG
CGGAAGGAGCTACAGAAAATGAAAGAGGAAATCATCGAAGTCTTTGTCCAGGAGCTGAGGAAGCGGGGT
CTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205851 representing NM_009499
 Red=Cloning site Green=Tags(s)

MSETVICSSRATVMLYDDSNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGSRKMQPDQQVVINCAIRGV
 KYNQATPIFHQWRDARQVWGLNFGSKEDIAIQFATGMANALEALEGGGPPAPAPPAWSAQNGPSPEELEQ
 QKRQPEHMERRVSNAGGPPAPPAGGPPPPPPGPPPPPPGLPSSGVSAGHGAGAAPPAPPLPTAQ
 GPNSGGSGAPGLAAAIAGAKLRKVSKQEEASGGPLAPKAENSRSTGGGLMEEMNAMLARRRKATQVGEKP
 PKDESASEESEARLPAQSEPVRPWEKNSTTLPRMKSSSVTTSEHPSTPCSSDDSDLERYKQELLEEV
 RKELQKMKEEIIIEVFVQELRKRKSP

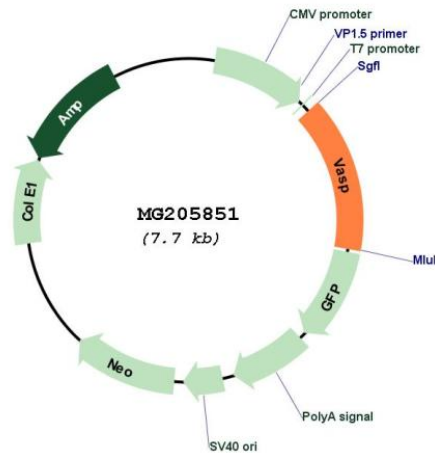
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_009499.1 , NP_033525.1
RefSeq Size:	1131 bp
RefSeq ORF:	1128 bp
Locus ID:	22323
UniProt ID:	P70460
Cytogenetics:	7 A3
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 <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]