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Product datasheet for MC217446

Was (NM_009515) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Was (NM_009515) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Was
Synonyms:	U42471; Wasp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC217446 representing NM_009515
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATAGTGGCCCTGGCCCTGTAGGAGGCAGGCCTGGGGGCCGAGGGGGACCAGCCGTTCAGCAGAACA
TTCCTTCCAACCTCCTCCAGGACCATGAAAACCAGAGACTCTTTGAGCTTCTTGGCCGAAAATGCTGGAC
ACTGGCTACCACAGTTGTTCAGCTCTACCTGGCACTGCCCCCTGGAGCTGAGCACTGGACCATGGAACAC
TGCGGGGCTGTGTGCTTCGTGAAGGATAACCCTCAGAAGTCCTACTTCATCCGCCTTTATGGCCTACAGG
CTGGTCGGCTACTCTGGGAACAGGAGCTGTACTCTCAGCTGGTTTATCTCACTCCCACCCCGTTCTTCCA
CACTTTTGCTGGAGATGACTGTCAAGTAGGACTGAACTTTGCGGATGAGAGTGAAGCCCAGGCCTTCCGG
GCCTTGGTGCAGGAGAAGATACAAAAAAGGAATCAGAGGCAAAGCGGAGAAAGACGCCAGCTACCACCAC
CACCAGCACCAATCAATGAGGAGAGAAGAGGAGGGCTCCCACCTGTGCCCCCACACCCGGGTGGAGATCA
TGGGGGCCCATCAGGTGGTCCACTATCTCTAGGACTTGTGACGGTCGACATTCAGAACCCTGACATCACA
AGTTCACGATACCGTGGGCTCCCTGCACCTGGCCCTGGCCCAACTGATAAGAAACGCTCAGGGAAAAAGA
AGATCAGCAAAGCTGATATCGGAGCACCGAGTGGATTCAAACATGTCAGCCACGTGGGCTGGGATCCCCA
GAATGGATTTGATGTGAACAACCTAGACCCGGATCTGCGGAGCTTGTTCTCCAGGGCAGGAATCAGCGAG
GCCCAGCTCACTGACGCAGAGACCTCCAAGCTCATCTACGATTTTATTGAGGACCAGGGAGGTCTAGAGG
CTGTCCGGCAGGAGATGAGGCGCCAAGAGCCACTCCCACCACCTCCGCCGCCATGCAGAGGAGGAGGAGG
AGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGCCAGCCTCTGAGACCTCCTGTTGTGGGG
AGTAATAAGGGTCGCTCAGGTCCACTGCCCCCTGTACCTATGGGGGGTGCCCCACCTCCACCAACACCAC
GAGGGCCCCCACCACCAGGCCGAGGGGGTCCTCCTCCACCACCCCCTCCAGCCACTGGACGATCTGGACC
ACCACCTCCTCCACTCCCTGGAGCTGGGGGACCACCAGCACCGCCACCACCACCACCACCACCACCACCT
CCACCCTGCCCTGGGAGTGGGCCCGCCCCTCCCCCGCTCCCTCCTACTCCAGTGTCTGGGGGGAGCCCAG
CACCTGGTGGGGGCCGGGGTGCACTTTTGGACCAAATCCGGCAGGGAATTCAGCTGAACAAGACCCCTGG
AGCTCTAGAGAACTCAGTACAGCAACCACCCGCGCAGCAGTCAGAAGGCCTAGTAGGTGCCCTGATGCAT
GTCATGCAGAAGAGGAGTAGAGTCATCCATTCCTCAGATGAAGGGGAGGATCAGACCGGCGAGGATGAAG
AGGATGATGAATGGGATGACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1243_c02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_009515

Insert Size: 1563 bp

OTI Disclaimer: 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).

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_009515.2, NP_033541.1
RefSeq Size:	2094 bp
RefSeq ORF:	1563 bp
Locus ID:	22376
UniProt ID:	P70315
Cytogenetics:	X 3.65 cM
Gene Summary:	Effector protein for Rho-type GTPases that regulates actin filament reorganization via its interaction with the Arp2/3 complex. Important for efficient actin polymerization. Possible regulator of lymphocyte and platelet function. Mediates actin filament reorganization and the formation of actin pedestals upon infection by pathogenic bacteria. In addition to its role in the cytoplasmic cytoskeleton, also promotes actin polymerization in the nucleus, thereby regulating gene transcription and repair of damaged DNA. Promotes homologous recombination (HR) repair in response to DNA damage by promoting nuclear actin polymerization, leading to drive motility of double-strand breaks (DSBs).[UniProtKB/Swiss-Prot Function]