

Product datasheet for **MG226777**

Was (NM_009515) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Was (NM_009515) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Was
Synonyms:	U42471; Wasp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226777 representing NM_009515
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAATAGTGGCCCTGGCCCTGTAGGAGGCAGGCCTGGGGCCGAGGGGGACCAGCCGTTACGAGAACA
 TTCCTTCCAACCTCCTCCAGGACCATGAAAACAGAGACTCTTTGAGCTTCTGGCCGAAAATGCTGGAC
 ACTGGCTACCACAGTTGTTTCAGCTCTACCTGGCACTGCCCCCTGGAGCTGAGCACTGGACCATGGAACAC
 TGCGGGGCTGTGTCTTCGTGAAGGATAACCTCAGAAGTCTACTTTCATCCGCCTTTATGGCCTACAGG
 CTGGTCCGCTACTCTGGGAACAGGAGCTGTACTCTCAGCTGGTTTATCTCACTCCACCCGTTCTTCCA
 CACTTTTGTGGAGATGACTGTCAAGTAGGACTGAACTTTCGGGATGAGAGTGAAGCCAGGCCCTCCGG
 GCCTTGGTGCAGGAGAAGATACAAAAAGGAATCAGAGGCAAAGCGGAGAAAGACGCCAGCTACCACCAC
 CACCAGCACCAATCAATGAGGAGAGAAGAGGAGGCTCCACCTGTGCCCCACACCCGGTGGAGATCA
 TGGGGGCCATCAGGTGGTCCACTATCTTAGGACTTGTGACGGTCGACATTCAGAACCCTGACATCACA
 AGTTCACGATACCGTGGGCTCCCTGCACCTGGCCCTGGCCCAACTGATAAGAAACGCTCAGGGAAAAAGA
 AGATCAGCAAAGCTGATATCGGAGCACCGAGTGGATTCAAACATGTCAGCCACGTGGGCTGGGATCCCCA
 GAATGGATTTGATGTGAACAACCTAGACCCGGATCTCGGAGCTTGTTCCTCAGGGCAGGAATCAGCGAG
 GCCCAGCTCACTGACGCAGAGACCTCCAAGCTCATCTACGATTTTATTGAGGACCAGGGAGGTCTAGAGG
 CTGTCCGGCAGGAGATGAGGCGCAAGAGCCACTCCCACCACCTCCGCCCATGCAGAGGAGGAGGAGG
 AGG
 AGTAATAAGGGTCGCTCAGTCCACTGCCCCCTGTACCTATGGGGGTGCCCCACCTCCACCAACACCAC
 GAGGGCCCCCACCACCAGGCCGAGGGGGTCTCCTCCACCACCCCTCCAGCCACTGGACATCTGGACC
 ACCACCTCCTCCACTCCCTGGAGCTGGGGGACCACCAGCACCACCACCACCACCACCACCACCACCACCT
 CCACCCTGCCCTGGGAGTGGGCCCGCCCTCCCCGCTCCTCCTACTCCAGTGTCTGGGGGAGGCCAG
 CACCTGTTGGGGCCGGGTGCACTTTTGGACCAATCCGGCAGGGAATTCAGCTGAACAAGACCCTGG
 AGCTCTAGAGAACTCAGTACAGCAACCACCCGCGCAGCAGTCAGAAGGCCTAGTAGGTGCCCTGATGCAT
 GTCATGCAGAAGAGGAGTAGAGTCATCCATTCTCAGATGAAGGGGAGGATCAGACCGGCAGGATGAAG
 AGGATGATGAATGGGATGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG226777 representing NM_009515
 Red=Cloning site Green=Tags(s)

MNSGPGPVGRRPGRGGPAVQQNIPSNLLQDHENQRLFELLGRKCWTLATTVVQLYLALPPGAEHWTMEH
 CGAVCFVKDNPQKSYFIRLYGLQAGRLLWEQELYSQLVYLTPTPFHFTFAGDDCQVGLNFADESEAQAFR
 ALVQEKIQKRNQRQSGERRQLPPPPAPINEERRGGLPPVPPHPGDHGGPSGGPLSLGLVTVDIQNPDI
 SSRYRGLPAPGPGPTDKKRSGKKKISKADIGAPSGFKHVSHVWDPQNGFDVNNLDPDLRSLFSRAGISE
 AQLTDAETSKLIYDFIEDQGGLEAVRQEMRRQEPLPPPPPCRGGGGGGGGGGGGGGGQPLRPPVVG
 SNKGRSGPLPPVPMGGAPPPPTPRGPPPPGRGGPPPPPPATGRSGPPPPPLPGAGGPPAPPPPPPPPP
 PPCPGSGPAPPLPPTPVSGGSPAGGGRALLDQIRQGIQLNKTPGALENSVQQPPAQQSEGLVGALMH
 VMQKRSRVIHSSDEGEDQTGEDEEDEDWDD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_009515

ORF Size: 1560 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_009515.2](#), [NP_033541.1](#)

RefSeq Size: 2094 bp

RefSeq ORF: 1563 bp

Locus ID: 22376

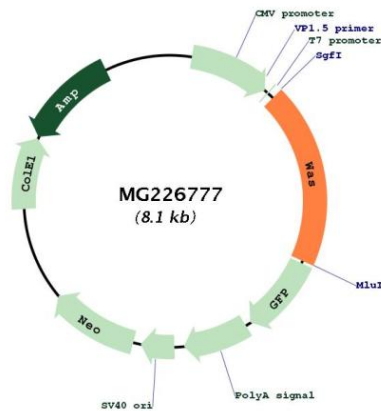
UniProt ID: [P70315](#)

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]

Product images:



Circular map for MG226777