

Product datasheet for **MG208865**

Wasf1 (NM_031877) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wasf1 (NM_031877) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wasf1
Synonyms:	A1195380; A1838537; Scar; WAVE; WAVE-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208865 representing NM_031877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGTTGGTAAAAGAAACATCGACCCTCGGCACTTGTGCCACACAGCACTGCCAGGGGCATTAAGA
 ACGAACTGGAATGTGTAACCAACATTTCCCTGGCAAATAAATTAGACAAGTGTAGCCTAAGTAAAGTA
 TGCTGAAGACATATTTGGAGAATTATTTCAATGAAGCACACAGTTTTTTCCTTCAGAGTTAACTCGTTGCAA
 GAGCGCGTGGACCGATTGTCTGTAGTGTACACAGCTTGATCCTAAGGAGGAAGAACTGTCTTTGCAAG
 ATATAACGATGAGAAAGGCTTTCCGGAGCTCCACAATTCAAGATCAGCAGCTTTTCGACCGAAGACGTT
 GCCTATTCATTGCAAGAAACATACGATGTGTGTGAGCAACCTCCGCCTCTCAATATCCTCACCCCTTAC
 AGGGATGATGGTAAGGAAGGGCTGAAGTTTTATACCAATCCTTCATATTTCTTTGATCTGTGAAAGAAA
 AGATGTTGCAAGATACAGAGGACAAGAGGAAGGAAAAGAGAAAGCAGAAGCAGAAAAATCTAGACCGTCC
 TCATGAACCAGAGAAAGTGCCAAGAGCACCTCATGACAGCGCGCGGAATGGCAGAAGCTGGCCCAAGGT
 CCAGAGCTGGCTGAGGATGACGCTGACCTCTACACAAGCATATTGAAGTTGCCAATGGCCACGCTCTC
 ATTATGAGACAAGGCCACAGACATACGTGGATCATATGGACGGATCGTACTCACTCTCTGCCTTGCCATT
 CAGTCAGATGAGTGAAGTCTGACCAGAGCTGAGGAGAGGGTCTTAGTCAGACCCCATGAACCTCCTCCG
 CCTCCACCAATGCATGGAGCAGGAGATGCAAAGCCACACCCACCTGTATCAGTTCTGCTACAGGTTTGA
 TAGAGAATCGCCCCAGTCCCCAGCTGCAGGCAGAACCTGTGTTTGTGAGCCCCACTTCCCCACCTCC
 TCCCCACCTCTCCGCTGCCTTGTCCACTTCTTCACTAAGAGCTTCAATGACCTCAACTCCTCCCCCA
 CCAGTCCCTCCTCCGCTCCTCCCCAGCCACTGCTTTGCAGGCCCCAGCAGTCCCCCACCTCCGGCTC
 CTCTTCAGATTGCCCTGGTGTCTTCCACCAGCTCCTCCTCAATTGCTCCTCCTCTAGTGCAGCCCTC
 TCCCCAGTAGCTCGAGCTGCCCAAGTATGCGAGACTGTGCCAGTTCACCCACTCCCGCAAGGTGAAGTG
 CAGGGGCTGCCTCCACCCACCACCGCTCCTCTACCTCCGCTGGCATCCGGCCATCATCTCCTGTGCG
 CAGTTGCAGCTCTTGCTCATCTCCTCTGGGCTCCATCCAGCACCATCTACTGCCCCGGTCCCCATGC
 TCCATTAATGCCTCCATCTCCTCCATCACAAGTTCTACCTGCCTCTGAGCCAAAGCGCCATCCATCCACC
 CTGCCTGTAATCAGTGACGCAAGGAGTGTGCTGCTGGAAGCCATCCGAAAAGGTATTAGCTTCGCAAAG
 TGGAAAGCAGCGTGAACAGGAAGCAAAACACGAGCGGATTGAAAACGACGTGGCCACCATCTGTCTCG
 CCGCATTGCTGTGGAGTATAGCGACTCGGAAGATGACTCGGAGTTCGATGAAGTAGACTGGCTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208865 representing NM_031877
 Red=Cloning site Green=Tags(s)

MPLVKNRIDPRHLCHTALPRGIKNELECVTNISLANIIRQLSSLKYAEDIFGELFNEAHSFSFRVNSLQ
 ERVDRLSVSVTQLDPKEEELSLQDITMRKAFRSSTIQDQQLFDRKTLPIPLQETYDVCEQPPPLNILTPY
 RDDGKEGLKFYTNPSYFFDLWKEKMLQDTEKREKRKQKQKNLDRPHEPEKVPRAPHRRREWQKLAQG
 PELAEDDADLLHKHIEVANGPASHYETRPQTYVDHMDGSYLSALPFSQMSSELLTRAERVLVRPHEPPP
 PPPMHGAGDAKPTPTCISSATGLIENRPQSPAAGRTPVFSPTSPPPPPLPSALSTSSLRASMTSTPPP
 PVPPPPPPATALQAPAVPPPPAPLQIAPGVLHPAPPIAPPLVQSPPPVARAAPVCETVPVHPLPQGEV
 QGLPPPPPPPLPPGIRPSSPVAVALAHPPSGLHPAPSTAPGPHAPLMPPSPSQVLPASEPKRHPST
 LPVISDARSVLLAIRKGIQLRKVEEQREQEAKHERIENDVATILSRRIAVEYSDEDDSEFDEVDWLE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_031877
ORF Size:	1677 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_031877.2 , NP_114083.1
RefSeq Size:	2574 bp
RefSeq ORF:	1680 bp
Locus ID:	83767
UniProt ID:	Q8R5H6
Cytogenetics:	10 22.07 cM
Gene Summary:	Downstream effector molecule involved in the transmission of signals from tyrosine kinase receptors and small GTPases to the actin cytoskeleton. Promotes formation of actin filaments. Part of the WAVE complex that regulates lamellipodia formation. The WAVE complex regulates actin filament reorganization via its interaction with the Arp2/3 complex (By similarity). As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (PubMed:27605705).[UniProtKB/Swiss-Prot Function]