

## Product datasheet for **RC217309**

### WAVE 1 (WASF1) (NM\_001024935) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WAVE 1 (WASF1) (NM_001024935) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WAVE 1
Synonyms:	NEDALVS; SCAR1; WAVE; WAVE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC217309 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGCTAGTGAAAAGAAACATCGATCCTAGGCCTTGTGCCACACAGCACTGCCTAGAGGCATTAAGA  
 ATGAACTGGAATGTGTAACCAATATTTCCCTGGCAAATAAATTAGACAATAAGTAGCCTAAGTAAATA  
 TGCTGAAGATATATTTGGAGAATTATTTCAATGAAGCACATAGTTTTTCTTCAGAGTCAACTCATTGCAA  
 GAACGTGTGGACCGTTTATCTGTAGTGTACACAGCTTGATCCAAAGGAAGAAGATTGCTTTGCAAG  
 ATATAACAAATGAGGAAAGCTTTCCGAAGTTCTACAATTCAAGACCAGCAGCTTTTCGATCGCAAGACTTT  
 GCCTATTCATTACAGGAGACGTACGATGTTTGTGAACAGCCTCCACCTCTCAATATACTCACTCCTTAT  
 AGAGATGATGGTAAAGAAGGTCTGAAGTTTATACCAATCCTTCGATTTTCTTTGATCTATGAAAGAAA  
 AAATGTTGCAAGATACAGAGGATAAGAGGAAGGAAAAGAGGAAGCAGAAGCAGAAAAATCTAGATCGTCC  
 TCATGAACCAGAAAAAGTGCCAAGAGCACCTCATGACAGCGCGGAGAATGGCAGAAGCTGGCCCAAGGT  
 CCAGAGCTGGCTGAAGATGATGCTAATCTTACATAAGCATATTGAAGTTGCTAATGGCCAGCCTCTC  
 ATTTTGAACAAGACCTCAGACATACGTGGATCATATGGATGGATCTTACTCACTTTCTGCCTTGCCATT  
 TAGTCAGATGAGTGAAGTCTGACTAGAGCTGAGGAAAGGGTATTAGTCAGACCACATGAACCACCTCCA  
 CCTCCACCAATGCATGGAGCAGGAGATGCAAAACCGATACCCACCTGTATCAGTTCTGCTACAGGTTTGA  
 TAGAAAATCGCCCTCAGTACCAGCTACAGGCAGAACCTGTGTTTGTGAGCCCCACTCCCCACCTCC  
 TCCACCACCTCTCCATCTGCCTTGTCACTTCTCATTAAAGAGCTTCAATGACTTCAACTCCTCCCCCT  
 CCAGTACTCCCCACCTCCACCTCCAGCCACTGCTTTGCAAGCTCCAGCAGTACCACCACCTCCAGCTC  
 CTCTTCAGATTGCCCTGGAGTTCTTCCAGCTCCTCCTCAATTGCACCTCCTCTAGTACAGCCCTC  
 TCCACCAGTAGCTAGAGCTGCCCCAGTATGTGAGACTGTACCAGTTCATCCACTCCCAAGGTGAAGTT  
 CAGGGGCTGCCTCCACCCACCACCGCCTCCTCTGCCTCCACCTGGCATTTCGACCATCATCACCTGTCA  
 CAGTTACAGCTCTTGCTCATCTCCCTCTGGGCTACATCCAACCTCCATCTACTGCCCCAGGTCCCCATGT  
 TCCATTAATGCCTCCATCTCCTCCATCACAAGTTATACCTGCTTCTGAGCCAAAGCGCCATCCATCAACC  
 CTACCTGTAATCAGTGATGCCAGGAGTGTGCTACTGGAAGCAATACGAAAAGGTATTAGCTACGCAAAG  
 TAGAAGAGCAGCGTGAACAGGAAGCTAAGCATGAACGCATTGAAAACGATGTTGCCACCATCTGTCTCG  
 CCGTATTGCTGTTGAATATAGTGATTCCGAAGATGATTCAGAATTTGATGAAGTAGATTGGTTGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC217309 protein sequence  
 Red=Cloning site Green=Tags(s)

MPLVKNRIDPRHLCHTALPRGIKNELECVTNISLANIIRQLSSLSKYAEDIFGELFNEAHSFSFRVNSLQ  
 ERVDRLSVSVTQLDPKEEELSLQDITMRKAFRSSTIQDQQLFDRKTLPIPLQETYDVCEQPPPLNILTPY  
 RDDGKEGLKFYTNPSYFFDLWKEKMLQDTEKREKQKQKQKNDLRPHEPEKVPRAHRRREWQKLAQG  
 PELAEDDANLLHKHIEVANGPASHFETRPQTYVDHMDGSYLSALPFSQMSELLTRAERVLVRPHEPPP  
 PPPMHGAGDAKPIPTCISSATGLIENRPQSPATGRTPVFVSPTPPPPPPPLPSALSTSSLRASMTSTPPP  
 PVPPPPPPATALQAPAVPPPPAPLQIAPGVLHPAPPPIAPPLVQPSPPVARAAPVCETVPVHPLPQGEV  
 QGLPPPPPPPLPPPGIRPSSPVTVLAHPPSGLHPTPSTAPGPHVPLMPPSPSQVIPASEPKRHPST  
 LPVISDARSVLLAIRKGIQLRKVEEQREKQEKHERIENDVATILSRRIAVEYSDEDDSEFDEVDWLE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6238\\_d12.zip](https://cdn.origene.com/chromatograms/mk6238_d12.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001024935

**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:**

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\\_001024935.1](#), [NP\\_001020106.1](#)
**RefSeq Size:** 3085 bp

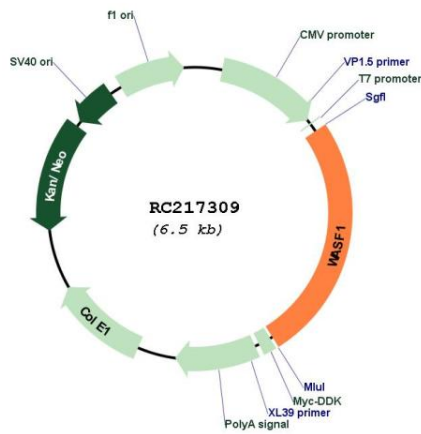
**RefSeq ORF:** 1680 bp

**Locus ID:** 8936

**UniProt ID:** [Q92558](#)

<b>Cytogenetics:</b>	6q21
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Adherens junction, Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton
<b>MW:</b>	61.7 kDa
<b>Gene Summary:</b>	The protein encoded by this gene, a member of the Wiskott-Aldrich syndrome protein (WASP)-family, plays a critical role downstream of Rac, a Rho-family small GTPase, in regulating the actin cytoskeleton required for membrane ruffling. It has been shown to associate with an actin nucleation core Arp2/3 complex while enhancing actin polymerization in vitro. Wiskott-Aldrich syndrome is a disease of the immune system, likely due to defects in regulation of actin cytoskeleton. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC217309