

Product datasheet for **RG216977**

WAVE 1 (WASF1) (NM_003931) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WAVE 1 (WASF1) (NM_003931) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WAVE 1
Synonyms:	NEDALVS; SCAR1; WAVE; WAVE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216977 representing NM_003931
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTAGTGAAAAGAAACATCGATCCTAGGCCTTGTGCCACACAGCACTGCCTAGAGGCATTAAGA
 ATGAACCTGGAATGTGTAACCAATATTTCCCTGGCAAATAAATTAGACAACCTAAGTAGCCTAAGTAAATA
 TGCTGAAGATATATTTGGAGAATTATTTCAATGAAGCACATAGTTTTTCTTCAGAGTCAACTCATTGCAA
 GAACGTGTGGACCGTTTATCTGTAGTGTACACAGCTTGATCCAAAGGAAGAAGATTGCTTTGCAAG
 ATATAACAATGAGGAAAGCTTTCCGAAGTTCTACAATTCAAGACCAGCAGCTTTTCGATCGCAAGACTTT
 GCCTATTCATTACAGGAGACGTACGATGTTTGTGAACAGCCTCCACCTCTCAATATACTCACTCCTTAT
 AGAGATGATGGTAAAGAAGGTCTGAAGTTTATACCAATCCTTCGATTTCTTTGATCTATGAAAGAAA
 AAATGTTGCAAGATACAGAGGATAAGAGGAAGGAAAAGAGGAAGCAGAAGCAGAAAAATCTAGATCGTCC
 TCATGAACCAGAAAAAGTGCCAAGAGCACCTCATGACAGGCGGCGAGAATGGCAGAAGCTGGCCCAAGGT
 CCAGAGCTGGCTGAAGATGATGCTAATCTTACATAAGCATATTGAAGTTGCTAATGGCCACGCTCTC
 ATTTTGAAAACAAGACCTCAGACATACGTGGATCATATGGATGGATCTTACTCACTTTCTGCCTTGCCATT
 TAGTCAGATGAGTGAAGCTTCTGACTAGAGCTGAGGAAAGGGTATTAGTCAGACCACATGAACCACCTCCA
 CCTCCACCAATGCATGGAGCAGGAGATGCAAAACCGATACCCACCTGTATCAGTTCTGCTACAGGTTTGA
 TAGAAAATCGCCCTCAGTACCAGCTACAGGCAGAACCTGTGTTTGTGAGCCCCACTCCCCACCTCC
 TCCACCACCTCTCCATCTGCCTTGTCACTTCTCATTAAAGAGCTTCAATGACTTCAACTCCTCCCCCT
 CCAGTACTCCCCACCTCCACCTCCAGCCACTGCTTTGCAAGCTCCAGCAGTACCACCACCTCCAGCTC
 CTCTTCAGATTGCCCTGGAGTTCTTACCAGCTCCTCCTCAATTGCACCTCCTCTAGTACAGCCCTC
 TCCACCAGTAGCTAGAGCTGCCCAAGTATGTGAGACTGTACCAGTTTCCACTCCCAAGGTGAAGTT
 CAGGGGCTGCCTCCACCCACCACCGCTCCTCTGCCTCCACCTGGCATTTCGACCATCATCACCTGTCA
 CAGTTACAGCTCTTGCTCATCTCCCTCTGGGCTACATCCAACCTCCATCTACTGCCCCAGGTCCCCATGT
 TCCATTAATGCCTCCATCTCCTCCATCACAAGTTATACCTGCTTCTGAGCCAAAGCGCCATCCATCAACC
 CTACCTGTAATCAGTGATGCCAGGAGTGTGCTACTGGAAGCAATACGAAAAGGTATTGAGTACGCAAAG
 TAGAAGAGCAGCGTGAACAGGAAGCTAAGCATGAACGCATTGAAAACGATGTTGCCACCATCTGTCTCG
 CCGTATTGCTGTTGAATATAGTGATTCCGAAGATGATTCAGAATTTGATGAAGTAGATTGGTTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216977 representing NM_003931
 Red=Cloning site Green=Tags(s)

MPLVKNRIDPRHLCHTALPRGIKNELECVTNIISLANIIRQLSSLKYAEDIFGELFNEAHSFSFRVNSLQ
 ERVDRLSVSVTQLDPKEEELSLQDITMRKAFRSSTIQDQQLFDRKTLPIPLQETYDVCEQPPPLNILTPY
 RDDGKEGLKFYTNPSYFFDLWKEKMLQDTEKREKQKQKNLDRPHEPEKVPRAHPDRRREWQKLAQG
 PELAEDDANLLHKHIEVANGPASHFETRPQTYVDHMDGSYLSALPFSQMSSELLTRAEEVLRVPHEPPP
 PPPMHGADAKPIPTCISSATGLIENRQSPATGRTPVFSPTPPPPPPPLPSALSTSSLRASMTSTPPP
 PVPPPPPPATALQAPAVPPPPAPLQIAPGVLHPAPPPIAPPLVQPSPPVARAAPVCETVPVHPLPQGEV
 QGLPPPPPPPLPPGIRPSSPVVTALAHPPSGLHPTPSTAPGPHVPLMPPSPSQVIPASEPKRHPST
 LPVISDARSVLLAIRKGIQLRKVEEQREQEAKHERIENDVATILSRRIAVEYSDEDDSEFDEVDWLE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003931

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_003931.3](#)

RefSeq Size: 3230 bp

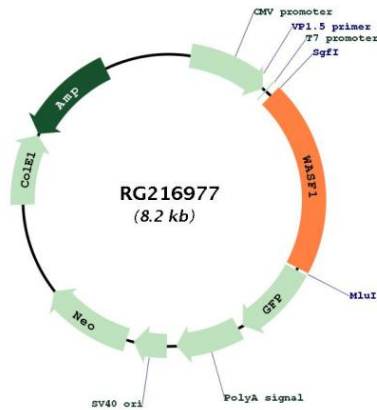
RefSeq ORF: 1680 bp

Locus ID: 8936

UniProt ID: [Q92558](#)

Cytogenetics:	6q21
Domains:	WH2
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton
Gene Summary:	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 RG216977