

Product datasheet for **SC302313**

WAVE 1 (WASF1) (NM_001024934) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WAVE 1 (WASF1) (NM_001024934) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >SC302313 representing NM_001024934.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCCTAGTGAAAAGAACAATCGATCCTAGGCACTTGTGCCACACAGCACTGCCTAGAGGCATTAAG
AATGAACCTGGAATGTGTAACCAATATTTCCCTTGGCAAATAAATTAGACAATAAGTAGCCTAAGTAAA
TATGCTGAAGATATATTTGGAGAATTATCAATGAAGCACATAGTTTTTCCCTCAGAGTCAACTCATTG
CAAGAACGTGTGGACCGTTTATCTGTTAGTGTACACAGCTTGATCCAAAGGAAGAAGAATTGTCTTTG
CAAGATATAACAATGAGGAAAGCTTTCCGAAGTTCTACAATCAAGACCAGCAGCTTTTCGATCGCAAG
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CCTTATAGAGATGATGGTAAAGAAGGTCTGAAGTTTTATACCAATCCTTCGTATTTCTTTGATCTATGG
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GCCAAGGTCCAGAGCTGGCTGAAGATGATGCTAATCTTTACATAAGCATAATTGAAGTTGCTAATGGC
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GCCTTGCCATTTAGTCAGATGAGTGAGCTTCTGACTAGAGCTGAGGAAAGGGTATTAGTCAGACCACAT
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CCACCACCTCCAGCTCCTCTTCAGATTGCCCTGGAGTTCTTACCCAGCTCCTCCTCCAATTGCACCT
CCTCTAGTACAGCCCTCCACCAGTAGCTAGAGCTGCCCAAGTATGTGAGACTGTACCAGTTCACTCCA
CTCCACAAAGGTGAAGTTCAGGGGCTGCCTCCACCCCAACCAGCCTCCTCTGCCTCCACTGGCATT
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ACTGCCCCAGGTCCCATGTTCCATTAATGCCTCCATCTCCTCCATCACAAAGTTATACCTGCTTCTGAG
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GATGAAGTAGATTGGTTGGAGTAA
ACGGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001024934

Insert Size: 1680 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA

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_001024934.1
RefSeq Size:	3132 bp
RefSeq ORF:	1680 bp
Locus ID:	8936
UniProt ID:	Q92558
Cytogenetics:	6q21
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton
MW:	61.7 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an exon in the 5' UTR, as compared to variant 1. Variants 1-4 encode the same protein.</p>