

Product datasheet for **RC238581**

WASF3 (NM_001291965) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WASF3 (NM_001291965) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WASF3
Synonyms:	Brush-1; SCAR3; WAVE3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238581 representing NM_001291965
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTTTAGTGAAGAGGAACATTGAGCCCCGGCACTTGTGCCGGGAGCTCTGCCTGAAGGGATTACCA
 CGGAACCTGAATGTGTAACCAATAGTACTCTTGCCGCTATCATACGCCAGCTGAGCAGTCTGAGCAAACA
 TGCTGAAGACATATTTGGTGAGTTGTTTAAATGAGGCTAACAACTTCTACATCAGAGCAAATTTCTTTCAA
 GACAGAATTGATCGCCTTGTGTCAAAGTCAACAGTGGATTCAACAGTGAAGAGGTCTCACTACAGG
 ATATCAACATGAAAAAGCTTTCAAAGTTCACAGTCCAAGACCAGCAAGTGGTTTCAAAGAACAGCAT
 TCCTAATCCTGTTGCTGATATTTACAACCAGAGTGATAAGCCACCGCCTCTGAACATCCTGACACCATA
 AGAGATGACAAGAAGGATGGGCTGAAGTCTATACTGATCCTTCTATTTCTTTGACCTCTGAAAGAAA
 AAATGCTACAGGACACAGAAGACAAAAGGAAAGAGAAAAGGCGTAAAAGAGAGAAAACACAAGCTGAA
 CCCTAACAGAAACCAGCAAGTAAATGTGAGAAAAGTCAGAACAAGAAAAGAAGAGTGGGAGAGAAGGAAA
 ATGGGCATTGAGTTTATGAGTGACGCAAAGAACTGGAGCAGGCAGGGAGCGCCAAAGAGGACAGAGTGC
 CCAGCGGGTCACATGCATCGGACGTTACGGATTACTCTTACCCGGCTACTCCCAACCATTCTCTGCCACC
 CCAGCCTGTGACCCCTTCTATGCAGCTGGTGACGTGCCACCACAGGGCCTGCAAGCCAGGCTGCGGAG
 CATGAGTACCGGCCCTCTGCCTCGGCGAGGCACATGGCCCTCAACAGACCTCAGCAGCCGCCCTCC
 CGCTCCCTCAGGCCCCAGAGGGTCCCAGGCTCTGCACCGATGGCTCCAGCAGACTACGGGATGCT
 CCCAGCGCAGATAATTGAGTATTACAACCCATCCGACCACCTCCTCCGCCACCTCCTCTGTGATTCCC
 TCAGCACAAACTGCCTTCGTGAGCCCTCCAGATGCCATGCAGCCCCGTTCCCTGCATCAGCCAGCT
 CCACGACGAGCTCCTCCTCACCCACCTCCACCGGGCTCCTGGTCACAGCCCCGCCACCCCGGGCCC
 ACCACCTCCCCCGCCAGGCCCTCCTGGTCCCGGTCTTCTTTTCGTCCTCCCAATGCATGGCCCCCA
 GTAGCTGAGGCGAAGCGCAAGAGCCTGCACAGCCACCAATCAGTGATGCTCGAAGCGACCTCCTCGCTG
 CTATTCGAATGGGAATCAACTGAAAAAGTGCAGGAGCAGCGGGAGCAGGAGGCCAAGCGGGAGCCAGT
 GGGGAATGACGTGGCCACGATCCTGTCCCGGCGCATTGCCGTGGAGTACAGCGACTCTGACGACGACTCA
 GAGTTCGACGAGAACGACTGGTCCGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238581 representing NM_001291965
 Red=Cloning site Green=Tags(s)

MPLVKRNIEPRHLCRGALPEGITSELECVTNSTLAAIIRQLSSLKHAEDIFGELFNEANNFYIRANSLQ
 DRIDRLAVKVTQLDSTVEEVSLQDINMKKAFKSSSTVQDQQVSKNSIPNPVADIYNQSDKPPPLNILTPY
 RDDKDKGLKFYTDPSYFFDLWKEKMLQDTEDKRKEKRRQKREKHKLNPNRNQQVNVKVRTRKEEWERRK
 MGIEFMSDAKKLEQAGSAKEDRVPSSGSHASDVTDYSYPATPNHSLHPQPVTSPSYAAGDVPPHPGASQAAE
 HEYRPPSASARHMALNRPQQPPPPPPQPEGSQASAPMAPADYGMPLAQIIEYYNPSGPPPPPPPPVIP
 SAQTAQVSPQLQPMQPPFPASASSTHAAPHPSTGLLVTAPPPGPPPPPPGPPGSSLS SSPMHGPP
 VAEAKRQEPAPPI SDARSDLLAAIRMGIIQLKKVQE QREQEAKREPVGNDVATILSRRIA VEYSDDSDS
 EFDENDWSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

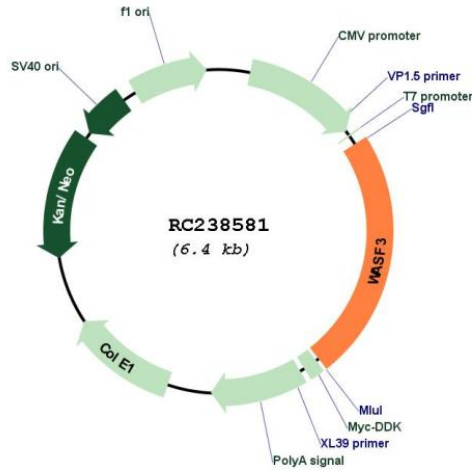
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


- ACCN:** NM_001291965
- ORF Size:** 1497 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:	<u>NM_001291965.1, NP_001278894.1</u>
RefSeq Size:	4841 bp
RefSeq ORF:	1500 bp
Locus ID:	10810
UniProt ID:	<u>Q9UPY6</u>
Cytogenetics:	13q12.13
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Fc gamma R-mediated phagocytosis
MW:	55.5 kDa
Gene Summary:	<p>This gene encodes a member of the Wiskott-Aldrich syndrome protein family. The gene product is a protein that forms a multiprotein complex that links receptor kinases and actin. Binding to actin occurs through a C-terminal verprolin homology domain in all family members. The multiprotein complex serves to transduce signals that involve changes in cell shape, motility or function. A pseudogene of this gene have been defined on chromosome 6. Alternative splicing results in multiple transcript variants [provided by RefSeq, May 2014]</p>