

Product datasheet for **RC208034**

WASF2 (NM_006990) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WASF2 (NM_006990) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WASF2
Synonyms:	dj393P12.2; IMD2; SCAR2; WASF4; WAVE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC208034 representing NM_006990
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGTTAGTAACGAGGAACATCGAGCCAAGGCACCTGTGCCGTCAGACGTTGCCCTAGCGTTAGAAGCG
 AGCTGGAATGCGTGACCAACATCACCTGGCAAATGTCATCCGACAGCTGGGCAGCCTGAGTAAATATGC
 AGAGGACATTTTTGGAGAGCTCTTTACTCAGGCAAATACCTTTGCCTCTCGGGTAAGCTCCCTTGCTGAG
 AGGGTCGACCGACTACAGGTTAAAGTCACTCAGCTGGATCCCAAGGAAGAAGAAGTGTCACTGCAAGGAA
 TCAACACCCGAAAAGCCTTCAGAAGTCCACCATTCAAGACCAGAAGCTTTTTGACAGAACTCTCTCCC
 AGTGCCTGTCTTAGAAACATAACAATACCTGTGATACTCTCCCTCTCAACAATCTTACCCCTTACAGG
 GACGATGAAAAGAGGCACTCAAATTCTACACAGACCTTCATACTTCTTTGATCTTTGGAAGGAGAAGA
 TGCTGCAGGACACCAAGGATATCATGAAAGAGAAGAGAAAAGCATAGGAAAAGAAAAGATAATCCAAA
 TCGAGGGGATGTAACCCACGTAATAAAGACACGTAAGGAAGAGTGGGAGAAAATGAAGATGGGGCAA
 GAATTTGTGGAGTCCAAAAGAAAGCTGGGACTTCTGGGTATCCACCCACTTTGGTGTACCAAGAATGGCA
 GCATTGGCTGTGTTGAAAACGTGGATGCAAGTAGCTATCCGCCACCACCACAGTCAGACTCTGCTTCTTC
 ACCTTCTCCTTCTTCCGAGGACAACCTGCCTCCTCCACCAGCAGAATTCAAGTACCCAGTGGACAAC
 CAAAGAGGATCTGGTTGGCTGGACCCAAAAGATCCAGTGTGGTCAGCCCAAGCCATCCACCACCAGCTC
 CTCCTTAGGCTCTCCACCAGGCCCTAAACCCGGGTTTGTCTCCACCACCTGCCCTCCGCCACCTCCGCC
 TCCAATGATAGGCATCCACCTCCACCACCGCTGTAGGATTTGGGTCTCCAGGGACGCCTCCACCACCC
 TCACCCCACTCTTCCACCTCACCTGATTTTGTCTCCCTCCACCTCTCTCCACCACCAGCAGCTG
 ACTACCAACTCTGCCACCACCTCCCTGTCCCAGCCAACAGGAGGAGCACCTCTCTCCCTCCCTCTCC
 TCTCCTCCGGGGCCCCCTCTCCCTTTCACTGGTGCAGATGGCCAACCTGCTATACCACCACCGCTT
 TCTGATACCACCAAGCCCAAGTCTCCTTGCCTGCCGTGAGCGATGCCCGTAGCGACCTGCTTTCAGCCA
 TCCGTCAGGTTTTAGCTGCGCAGGGTTGAGGAGCAGCGGGAACAAGAGAAGCGGGATGTTGTGGGCAA
 TGACGTGGCCACCATCTGTCTCGTCGATTGCTGTTGAGTACAGTGACTCAGAAGATGACTCCTCTGAA
 TTTGATGAGGACGACTGGTCCGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208034 representing NM_006990
 Red=Cloning site Green=Tags(s)

MPLVTRNIEPRHLCRQTLPSVRSELECVTNITLANVIRQLGSLSKYAEDIFGELFTQANTFASRVSSLAE
 RVDRLQVKVTLDPKKEEVSLQGINTRKAFRSSTIQDQKLFDRNSLPVPVLETYNTCDTPPPLNNTPYR
 DDGKEALKFYTDPSYFFDLWKEKMLQDTKDIMKEKRKRKEKDNPNRGNVNPRIKTRKEEWEKMKMGQ
 EFVESKEKLGTSYPPTLVYQNGSIGCVENVDAASSYPPPPQSDSASSPSPSFSEDLNPPPAEFSYPVDN
 QRGSLAGPKRSSVSPSHPPAPPLGSPGPKPGFAPPAPPPPPPMIGIPPPPPVGFSPGTPPPP
 SPPSFPHPDFAAAPPPPPPAADYPTLPPPLSQPTGGAPPPPPPPPPGPPPPPTGADGQPAIPPL
 SDTTKPKSSLPAVSDARSDLLSAIRQGFQLRRVEEQREKRDVVGNVATILSRRIAVEYSDSEDDSSSE
 FDEDDWSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3623_g09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_006990

ORF Size: 1494 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

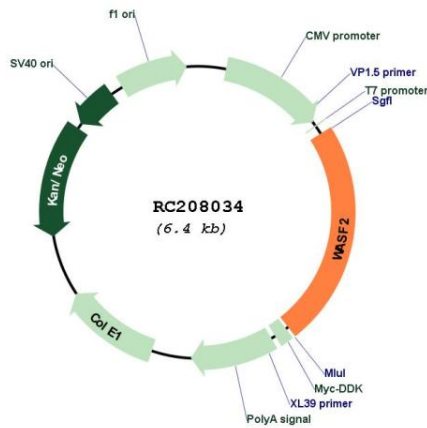
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

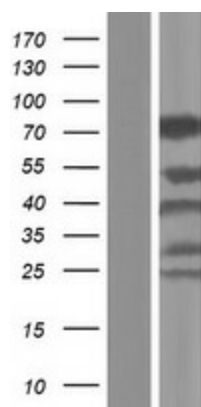
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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:	<u>NM_006990.5</u>
RefSeq Size:	4270 bp
RefSeq ORF:	1497 bp
Locus ID:	10163
UniProt ID:	<u>Q9Y6W5</u>
Cytogenetics:	1p36.11
Domains:	WH2
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton
MW:	54.1 kDa
Gene Summary:	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. The published map location (PMID:10381382) has been changed based on recent genomic sequence comparisons, which indicate that the expressed gene is located on chromosome 1, and a pseudogene may be located on chromosome X. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

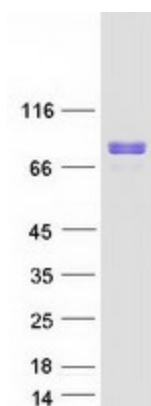
Product images:



Circular map for RC208034



Western blot validation of overexpression lysate (Cat# [LY416273]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208034 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WASF2 protein (Cat# [TP308034]). The protein was produced from HEK293T cells transfected with WASF2 cDNA clone (Cat# RC208034) using MegaTran 2.0 (Cat# [TT210002]).