

Product datasheet for **RR207646**

Wasf1 (NM_001025114) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wasf1 (NM_001025114) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wasf1
Synonyms:	MGC109303
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR207646 representing NM_001025114
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTGGTAAAAGAACATCGACCCTAGGCCTTGTGCCACACAGCACTGCCAGGGGCATTAAGA
 ACGAGCTGGAATGTGACCAACATCTCCCTGGCAAATAAATTAGACAAGTACTGAGTGCCTAAGTAAATA
 TGCTGAAGACATATTTGGAGAATTATTTCAATGAAGCACATAGTTTTTCTTCAGAGTTAACTCATTACAA
 GAGCGCTGGACCGATTGTCGTTAGTGTACACAGCTTGATCCTAAAGAAGAAGAACTGTCCTTACAAG
 ACATAACGATGAGAAAAGCTTTCCGGAGCTCTACAATTCAGGACCAGCAGCTTTTCGACCGAAGACTTT
 GCCTATCCCGCTGCAGGAAACGTACGATGTGTGCGAGCAGCTCCGCCTCTCAATGTCCTCACACCTAC
 AGGGACGATGGTAAGGAGGGGTGAAGTTTTATACCAACCCTTCGATTTTCTTTGATCTGTGAAAGAAA
 AGATGTTGCAAGATACAGAGGATAAGAGGAAGGAAAAGAGAAAGCAGAAGCAGAAAAATCTAGACCGTCC
 TCATGAACCAGAAAAAGTGCCAAGAGCACCACATGACAGCGCGGAGAATGGCAGAAGCTGGCCCAAGGT
 CCAGAGCTGGCTGAAGATGATGCCGATCTCCTCCACAAGCACATCGAAGTTGCTAACGGCCAGCCTCTC
 ATTTTGAGACAAGGCCGAGACATACGTGGACCACATGGATGGATCTTACTCACTCTCTGCCTTGCCATT
 CAGTCAGATGAGTGAACCTTAAGCAGAGCTGAGGAGAGGGTCTTAGTCAGACCCCATGAACCACCTCCA
 CCTCCACCAATGCATGCAGCAGGGGATGCAAGACCCACCCACCTGTGTGAGCTCTGCTGCGGGTTTGA
 TAGAGAATCGTCCCAGTCCCAGCTGCAGGCAGAACACCCGTGTTTGTGAGCCCCACGCCCCACCTCC
 TCCACCACCTCTCCCGTCTGCCCTGTCCACCTCCTCACTGAGAGCTTCCATGACCTCAACTCCTCCCCA
 CCGGTGCTCCCCGCTCCTCCTCCAGCCCTGCCTTGACGGCCAGCAGTCCCCCGCTCCAGCCC
 CTCTTCAGATTGCCCTGGTGTCTTCCACCCAGCTCCTCCTCAATCGCTCCTCCTCTAGTACAGCCCTC
 TCCCCCGGTAGCCAGAGCCGCCAGTGTGTGAGACTGTACCCGTTTCATCCACTCCCAAGGTGAAGTG
 CAGGGGCTGCCTCCGCCCGCCGCCGCGCTCTGCCTCCTCCAGGCATTTCGGCCATCATCACCTGTCA
 CGGTGCGAGCTCTTGCATCCTCCCTCTGGGCTCCACCAACTCCATCTCCTGCCCTGGTCCCCATGC
 TCCATTAATGCCTCCGTCACCTTCAAGTCTGCCTGCCTCTGAGCCAAAGCGCCATCCTTCCACC
 CTACCCGTGATCAGTGACGCGAGGAGTGTGCTGCTGGAGGCCATACGAAAGGCATTGAGCTTCGAAAG
 TGAAGAGCAGCGTGAACAGGAAGCAAAGCATGAGCGGATTGAAAACGACGTGGCCACCATCCTGTACAG
 CCGCATCGCTGTGGAGTACAGCGACTCGGAAGACGACTCGGAGTTCGATGAAGTAGACTGGCTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207646 representing NM_001025114
 Red=Cloning site Green=Tags(s)

MPLVKRNIDPRHLCHTALPRGIKNELECVTNIISLANIIRQLSSL SKYAEDIFGELFNEAHSFSFRVNSLQ
 ERVDRLSVSVTQLDPKEEELSLQDITMRKAFRSSTIQDQQLFDRKTLPIPLQETYDVCEQPPPLNVLTPY
 RDDGKEGLKFYTNPSYFFDLWKEKMLQDTEDKRKEKRKQKQKNLDRPHEPEKVPRAPHDRRREWQKLAQG
 PELAEDDADLLHKHIEVANGPASHFETRPQTYVDHMDGSYLSALPFSQMSSELLSRAEERLVLRPHEPPP
 PPPMHAAGDARPTPTCVSSAAGLIENRPQSPAAGRTPVFSPTPPPPPPPLPSALSTSSLRASMTSTPPP
 PVPPPPPPAPALQAPAVPPPPAPLQIAPGVLHPAPPIAPPLVQSPPPVARAAPVCETVPVHPLPQGEV
 QGLPPPPPPPLPPPGIRPSSPVTVAALAHPPSGLHPTSPAPGPHAPLMPPSPSQVLPASEPKRHPST
 LPVISDARSVLLAIRKGIQLRKVEEQREQEAKHERIENDVATILSRRIAVEYSDEDDSEFDEVDWLE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

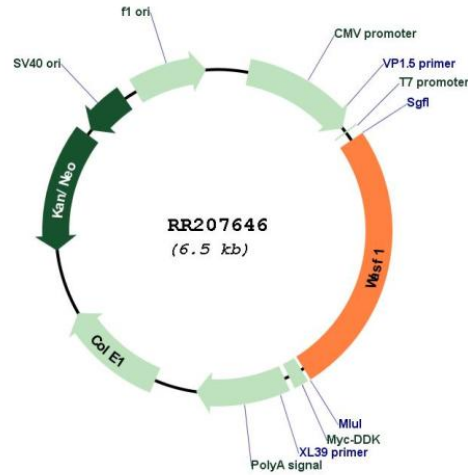
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001025114
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:	<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_001025114.1 , NP_001020285.1
RefSeq Size:	2579 bp
RefSeq ORF:	1680 bp
Locus ID:	294568
UniProt ID:	Q5BJU7
Cytogenetics:	20q13
MW:	61.5 kDa
Gene Summary:	Downstream effector molecule involved in the transmission of signals from tyrosine kinase receptors and small GTPases to the actin cytoskeleton. Promotes formation of actin filaments. Part of the WAVE complex that regulates lamellipodia formation. The WAVE complex regulates actin filament reorganization via its interaction with the Arp2/3 complex (By similarity). As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (By similarity).[UniProtKB/Swiss-Prot Function]