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Product datasheet for RC203457

WASP (WAS) (NM_000377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WASP (WAS) (NM_000377) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WASP
Synonyms:	IMD2; SCNX; THC; THC1; WASP; WASPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC203457 representing NM_000377
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGGGGGCCCAATGGGAGGAAGGCCCGGGGGCCGAGGAGCACCAGCGGTTCAGCAGAACATACCCT
CCACCCTCCTCCAGGACCACGAGAACCAGCGACTCTTTGAGATGCTTGGACGAAAATGCTTGACGCTGGC
CACTGCAGTTGTTCAGCTGTACCTGGCGCTGCCCCCTGGAGCTGAGCACTGGACCAAGGAGCATTGTGGG
GCTGTGTGCTTCGTGAAGGATAACCCCCAGAAGTCCTACTTCATCCGCCTTTACGGCCTTCAGGCTGGTC
GGCTGCTCTGGGAACAGGAGCTGTACTCACAGCTTGTCTACTCCACCCCCACCCCCTTCTTCCACACCTT
CGCTGGAGATGACTGCCAAGCGGGGCTGAACTTTGCAGACGAGGACGAGGCCCAGGCCTTCCGGGCCCTC
GTGCAGGAGAAGATACAAAAAAGGAATCAGAGGCAAAGTGGAGACAGACGCCAGCTACCCCCACCACCAA
CACCAGCCAATGAAGAGAGAAGAGGAGGGCTCCCACCCCTGCCCCTGCATCCAGGTGGAGACCAAGGAGG
CCCTCCAGTGGGTCCGCTCTCCCTGGGGCTGGCGACAGTGGACATCCAGAACCCTGACATCACGAGTTCA
CGATACCGTGGGCTCCCAGCACCTGGACCTAGCCCAGCTGATAAGAAACGCTCAGGGAAGAAGAAGATCA
GCAAAGCTGATATTGGTGCACCCAGTGGATTCAAGCATGTCAGCCACGTGGGGTGGGACCCCCAGAATGG
ATTTGACGTGAACAACCTCGACCCAGATCTGCGGAGTCTGTTCTCCAGGGCAGGAATCAGCGAGGCCCAG
CTCACCGACGCCGAGACCTCTAAACTTATCTACGACTTCATTGAGGACCAGGGTGGGCTGGAGGCTGTGC
GGCAGGAGATGAGGCGCCAGGAGCCACTTCCGCCGCCCCCACCGCCATCTCGAGGAGGGAACCAGCTCCC
CCGGCCCCCTATTGTGGGGGGTAACAAGGGTCGTTCTGGTCCACTGCCCCCTGTACCTTTGGGGATTGCC
CCACCCCCACCAACACCCCGGGGACCCCCACCCCCAGGCCGAGGGGGCCCTCCACCACCACCCCCTCCAG
CTACTGGACGTTCTGGACCACTGCCCCCTCCACCCCCTGGAGCTGGTGGGCCACCCATGCCACCACCACC
GCCACCACCGCCACCGCCGCCCAGCTCCGGGAATGGACCAGCCCCTCCCCCACTCCCTCCTGCTCTGGTG
CCTGCCGGGGGCCTGGCCCCTGGTGGGGGTCGGGGAGCGCTTTTGGATCAAATCCGGCAGGGAATTCAGC
TGAACAAGACCCCTGGGGCCCCAGAGAGCTCAGCGCTGCAGCCACCACCTCAGAGCTCAGAGGGACTGGT
GGGGGCCCTGATGCACGTGATGCAGAAGAGAAGCAGAGCCATCCACTCCTCCGACGAAGGGGAGGACCAG
GCTGGCGATGAAGATGAAGATGATGAATGGGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203457 representing NM_000377
Red=Cloning site Green=Tags(s)

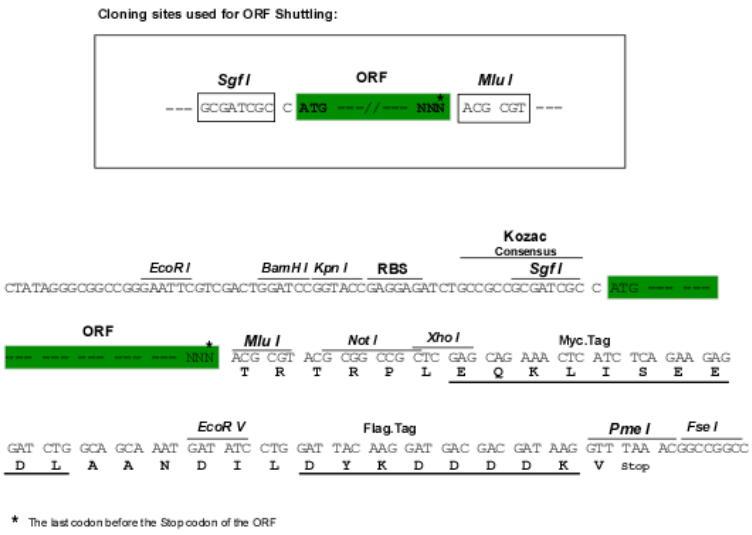
MSGGPMGGRPGGRGAPAVQQNIPSTLLQDHENQRLFEMLGRKCLTLATAVVQLYLALPPGAEHWTKEHCG
AVCFVKDNPQKSYFIRLYGLQAGRLLWEQELYSQLVYSTPTPFFHTFAGDDCQAGLNFADEDEAQAFRAL
VQEKIQKRNQRQSGDRRQLPPPPTPANEERRGGLPPLPLHPGGDQGGPPVGPLSLGLATVDIQNPDITSS
RYRGLPAPGPSPADKKRSGKKKISKADIGAPSGFKHVSHVGWDPQNGFDVNNLDPDLRSLFSRAGISEAQ
LTDAETSKLIYDFIEDQGGLEAVRQEMRRQEPLPPPPPPSRGGNQLPRPPIVGGNKGRSGPLPPVPLGIA
PPPPTPRGPPPPGRGGPPPPPPPATGRSGPLPPPPPGAGGPPMPPPPPPPPPPPSSGNGPAPPPLPPALV
PAGGLAPGGGRGALLDQIRQGIQLNKTPGAPESSALQPPPQSSEGLVGALMHVMQKRSRAIHSSDEGEDQ
AGDEDEDDEWDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3807_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000377

ORF Size: 1506 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_000377.3

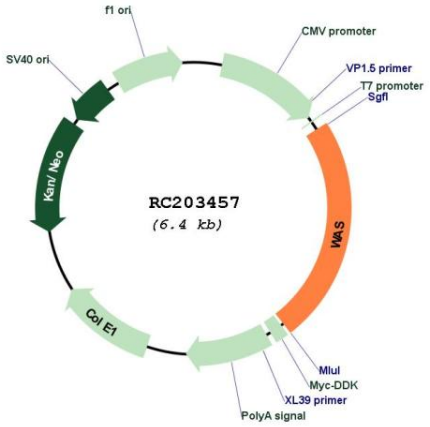
RefSeq Size: 1806 bp

RefSeq ORF: 1509 bp

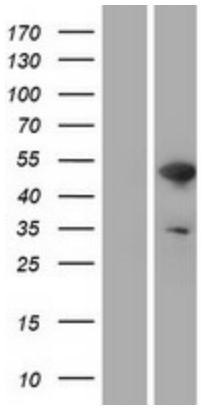
Locus ID: 7454

UniProt ID:	P42768
Cytogenetics:	Xp11.23
Domains:	PBD, WH1, WH2
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Chemokine signaling pathway, Fc gamma R-mediated phagocytosis, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton
MW:	52.7 kDa
Gene Summary:	The Wiskott-Aldrich syndrome (WAS) family of proteins share similar domain structure, and are involved in transduction of signals from receptors on the cell surface to the actin cytoskeleton. The presence of a number of different motifs suggests that they are regulated by a number of different stimuli, and interact with multiple proteins. Recent studies have demonstrated that these proteins, directly or indirectly, associate with the small GTPase, Cdc42, known to regulate formation of actin filaments, and the cytoskeletal organizing complex, Arp2/3. Wiskott-Aldrich syndrome is a rare, inherited, X-linked, recessive disease characterized by immune dysregulation and microthrombocytopenia, and is caused by mutations in the WAS gene. The WAS gene product is a cytoplasmic protein, expressed exclusively in hematopoietic cells, which show signalling and cytoskeletal abnormalities in WAS patients. A transcript variant arising as a result of alternative promoter usage, and containing a different 5' UTR sequence, has been described, however, its full-length nature is not known. [provided by RefSeq, Jul 2008]

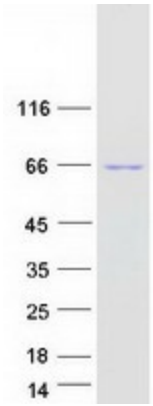
Product images:



Circular map for RC203457



Western blot validation of overexpression lysate (Cat# [LY424761]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203457 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WAS protein (Cat# [TP303457]). The protein was produced from HEK293T cells transfected with WAS cDNA clone (Cat# RC203457) using MegaTran 2.0 (Cat# [TT210002]).