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Product datasheet for SC321241

WASP (WAS) (NM_000377) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WASP (WAS) (NM_000377) Human Untagged Clone
Tag:	Tag Free
Symbol:	WASP
Synonyms:	IMD2; SCNX; THC; THC1; WASP; WASPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for NM_000377.1
GCCAGAGAAGACAAGGGCAGAAAGCACCATGAGTGGGGGCCCAATGGGAGGAAGGCCCGG
GGGCCGAGGAGCACCAGCGGTTCAGCAGAACATACCCTCCACCCTCCTCCAGGACCACGA
GAACCAGCGACTCTTTGAGATGCTTGGACGAAAATGCTTGACGCTGGCCACTGCAGTTGT
TCAGCTGTACCTGGCGCTGCCCCCTGGAGCTGAGCACTGGACCAAGGAGCATTGTGGGGC
TGTGTGCTTCGTGAAGGATAACCCCCAGAAGTCCTACTTCATCCGCCTTTACGGCCTTCA
GGCTGGTCGGCTGCTCTGGGAACAGGAGCTGTACTCACAGCTTGTCTACTCCACCCCCAC
CCCCTTCTTCCACACCTTCGCTGGAGATGACTGCCAAGCGGGGCTGAACTTTGCAGACGA
GGACGAGGCCCAGGCCTTCCGGGCCCTCGTGCAGGAGAAGATACAAAAAAGGAATCAGAG
GCAAAGTGGAGACAGACGCCAGCTACCCCCACCACCAACACCAGCCAATGAAGAGAGAAG
AGGAGGGCTCCCACCCCTGCCCCTGCATCCAGGTGGAGACCAAGGAGGCCCTCCAGTGGG
TCCGCTCTCCCTGGGGCTGGCGACAGTGGACATCCAGAACCCTGACATCACGAGTTCACG
ATACCGTGGGCTCCCAGCACCTGGACCTAGCCCAGCTGATAAGAAACGCTCAGGGAAGAA
GAAGATCAGCAAAGCTGATATTGGTGCACCCAGTGGATTCAAGCATGTCAGCCACGTGGG
GTGGGACCCCCAGAATGGATTTGACGTGAACAACCTCGACCCAGATCTGCGGAGTCTGTT
CTCCAGGGCAGGAATCAGCGAGGCCCAGCTCACCGACGCCGAGACCTCTAAACTTATCTA
CGACTTCATTGAGGACCAGGGTGGGCTGGAGGCTGTGCGGCAGGAGATGAGGCGCCAGGA
GCCACTTCCGCCGCCCCCACCGCCATCTCGAGGAGGGAACCAGCTCCCCCGGCCCCCTAT
TGTGGGGGGTAACAAGGGTCGTTCTGGTCCACTGCCCCCTGTACCTTTGGGGATTGCCCC
ACCCCCACCAACACCCCGGGGACCCCCACCCCCAGGCCGAGGGGGCCCTCCACCACCACC
CCCTCCAGCTACTGGACGTTCTGGACCACTGCCCCCTCCACCCCCTGGAGCTGGTGGGCC
ACCCATGCCACCACCACCGCCACCACCGCCACCGCCGCCCAGCTCCGGGAATGGACCAGC
CCCTCCCCCACTCCCTCCTGCTCTGGTGCCTGCCGGGGGCCTGGCCCCTGGTGGGGGTCG
GGGAGCGCTTTTGGATCAAATCCGGCAGGGAATTCAGCTGAACAAGACCCCTGGGGCCCC
AGAGAGCTCAGCGCTGCAGCCACCACCTCAGAGCTCAGAGGGACTGGTGGGGGCCCTGAT
GCACGTGATGCAGAAGAGAAGCAGAGCCATCCACTCCTCCGACGAAGGGGAGGACCAGGC
TGGCGATGAAGATGAAGATGATGAATGGGATGACTGAGTGGCTGAGTTACTTGCTGCCCT
GTGCTCCTCCCCGCAGGACATGGCTCCCCCTCCACCTGCTCTGTGCCCACCCTCCACTCT
CCTCTTCCAGGCCCCCAACCCCCCATTTCTTCCCCACCAACCCCTCCAATGCTGTTATCC
CTGCCTGGTCCTCACACTCACCCAACAATCCCAAGGCCCTTTTTATACAAAAATTCTCAG
TTCTCTTCACTCAAGGATTTTTAAAGAAAAATAAAAGAATTGTCTTTCTGTCTCTCAAAA
AAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_000377

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:	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_000377.1, NP_000368.1
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
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]