

Product datasheet for **MR208041**

Wasl (NM_028459) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Wasl
Synonyms:	2900021I12Rik; 3110031I02Rik; N-WASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR208041 representing NM_028459
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCTCGGGCCAGCAGCCCCCGGAGGGTCACCAACGTGGGCTCCCTGCTGCTACCCCGCAAGAGA
 ACGAGTCTCTCTTCTCCTTCCTCGCAAGAAATGTGTACTATGTCTTCAGCAGTGGTGCAGTTGTATGC
 AGCAGATCGGAAGTGTATGTGGGCAAGAAGTGCAGTGGTGTGCTGCTGTTAAGGACAATCTCAG
 AGATCTTATTTTTAAGAATATTTGACATTAAGGATGGGAAATTACTGTGGGAACAAGAGCTATACAATA
 ACTTTGTATATAATAGTCCTAGAGGATATTTTCATACCTTTGCTGGAGATACTTGTCAGTAGCTCTTAA
 TTTTGCCAATGAAGAAGAAGCAAAAAAGTTCCGAAAAGCAGTTACAGACCTGTTGGGCCGACGACAAAGG
 AAATCTGAAAAAGACGAGATGCTCCAATGGTCCCAATCTACCCATGGCTACAGTTGACATAAAAAATC
 CAGAAATCACACAATAGATTTTATGGTTCACAAGTCAACAACATCTCCACACCAAGAAAAGAAGAA
 AGGAAAAGCTAAAAAGAAGAGATTAAACCAAGGCAGATATTGGAACCAAGTAATTTCCAGCACATTGGG
 CATGTTGGATGGGATCCAAATACAGGTTTTGATCTAAATAATTTGGATCCAGAATTAAGAATCTTTTTG
 ATATGTGTGGGATCTCTGAGGCCAGCTTAAAGACAGAGAAACATCAAAAGTTATTTATGACTTTATTGA
 AAAAAACAGGAGGTGTAGAAGCTGTAAAAACGAAGTCCGAAGACAAGCACCACCACCTCCACCTCG
 AGAGGAGGACCTCCCCCTCCTCCTCCCCCTCCTCATAGCTCAGGTCTCCTCCCCCTCCTGCCGAGGAA
 GGGGGGCTCCTCCTCCCCACCTTCAAGAGCTCCTACTGCTGCACCTCCACCTCCACCTCCTTCTAGGCC
 TGGTGTGTGTTCTCCTCGCCCCCTCCAAACAGGATGTACCCTCCTCCACCACCAGCGCTGCCCTCTTCA
 GCACCTTCAGGCCCTCCACCACCTCCACCTCCATCTATGGCAGGGTCCACAGCACCACCACCTCCTCCTC
 CACCTCCGCCCCCACCAGGCCACCACCTCCCCCTGGCCTGCCTTCTGATGGTGACCATCAAGTTCAGC
 TCCTTCAGGAAACAAAGCAGCTCTTTTGGATCAAATTAGAGAGGGTGTCTCAGCTGAAAAAAGTGGAACAG
 AATAGCCGGCCCGTGTCTGCTCAGGAAGGGATGCGCTTTTAGACCAGATACGACAGGGCATTCAATTGA
 AATCTGTGTCTGATGGCCAAGAGTCCACACCACCAACCCGCACCCACTTCAGGAATTGTGGGTGCGCT
 GATGGAAGTGATGCAGAAAAGGAGCAAGCCATTTCATTCCTCAGATGAAGATGAAGACGATGATGATGAA
 GAAGATTTTGAGGATGATGATGAGTGGGAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR208041 representing NM_028459
 Red=Cloning site Green=Tags(s)

MSSGQQPPRRVTNVGSLLLTPQENESLFSFLGKKVMTSSAVVQLYAADRNCMWAKKCSGVACLVKDNPQ
 RSYFLRIFDIKDGKLLWEQELYNFVYNSPRGYFHTFAGDTCQVALNFANEEEEAKKFRKAVTDLLGRRQR
 KSEKRRDAPNGPNLPMATVDIKNPEITTNRFYGSQVNNISHTKEKKKGKAKKKRLTKADIGTPSNFQHIG
 HVGWDPNTGFDLNNLDPELKNLFDMSGISEAQLKDRETSKVIYDFIEKTGGVEAVKNELRRQAPPPPPPS
 RGGPPPPPPPHSSGPPPPPARGRGAPPPPSRAPTAAPPPPPSRPGVVVPPPPPNRMYPPPPPALPSS
 APSGPPPPPPSMAGSTAPPPPPPPPPGPPPPGLPSGDHQVPAPSGNKAALLDQIREGAQLKKVEQ
 NSRPVSCSGRDALLDQIRQGIQLKSVSDGQESTPPTPAPTSGIVGALMEVMQKRSKAHSSDEDEDDDE
 EDFEDDDEWED

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028459

ORF Size: 1503 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_028459.2](#), [NP_082735.2](#)

RefSeq Size: 4348 bp

RefSeq ORF: 1506 bp

Locus ID: 73178

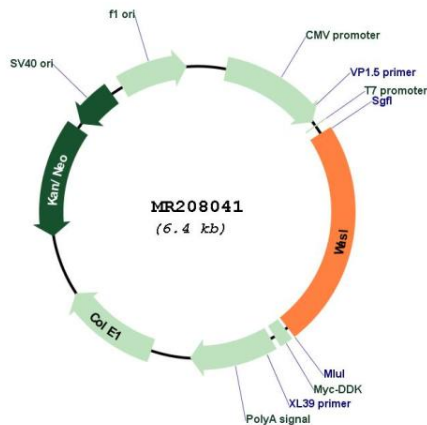
UniProt ID: [Q91YD9](#)

Cytogenetics: 6 A3.1

MW: 54.3 kDa

Gene Summary: Regulates actin polymerization by stimulating the actin-nucleating activity of the Arp2/3 complex. Involved in various processes, such as mitosis and cytokinesis, via its role in the regulation of actin polymerization. Together with CDC42, involved in the extension and maintenance of the formation of thin, actin-rich surface projections called filopodia. In addition to its role in the cytoplasm, also plays a role in the nucleus by regulating gene transcription, probably by promoting nuclear actin polymerization (By similarity). Binds to HSF1/HSTF1 and forms a complex on heat shock promoter elements (HSE) that negatively regulates HSP90 expression (PubMed:12871950). Plays a role in dendrite spine morphogenesis (PubMed:25851601). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208041