

## Product datasheet for **MG224732**

### Wasl (NM\_001167745) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Wasl (NM\_001167745) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Wasl  
**Synonyms:** 2900021112Rik; 3110031102Rik; N-WASP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG224732 representing NM\_001167745  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCTCGGGCCAGCAGCCCCCGGAGGGTCACCAACGTGGGCTCCCTGCTGCTACCCCGCAAGAGA  
 ACGAGTCTCTTCTCCTTCTCGGCAAGAAATGTGTGACTATGTCTTCAGCAGTGGTGCAGTTGTATGC  
 AGCAGATCGGAAGTGTATGTGGCAAAGAAGTGCAGTGGTGTGCTTGTCTGGTTAAGGACAATCCTCAG  
 AGATCTTATTTTTAAGAATATTTGACATTAAGGATGGGAAATTACTGTGGGAACAAGAGCTATAACAATA  
 ACTTTGTATATAATAGTCTTAGAGGATATTTTCATACCTTTGCTGGAGATACTTGTCAAGTAGCTCTTAA  
 TTTTGCCAATGAAGAAGAAGCAAAAAGTCCGAAAAGCAGTTACAGACCTGTTGGGCCGACGACAAAGG  
 AAATCTGCCTTAAGAACTGTCCTGAAGGTCCCAGCCTGTACCATTTTGTGAGACATAGCCGCACCTCA  
 ACTCCTGGACTCATGCTGTTTCTAACCCCATGCAGTCATTAACGCTAACAGGGAGGACATTCCTCGGAG  
 GAAAAGAGCCCTCCACTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG224732 representing NM\_001167745  
 Red=Cloning site Green=Tags(s)

MSSGQQPPRRVTNVGSLLLTPQENESLFSFLGKKCVTMSSAVVQLYAADRNCMWAKKCSGVACLVDNPNQ  
 RSYFLRIFDIKDGKLLWEQELYNNFVYNSPRGYFHTFAGDTCQVALNFANEEEAKKFRKAVTDLLGRRQR  
 KSALRTVLKVPACTILLRHSRTLNSWTHAVSNHHAVINANREDIPRRKRALHC

**TRTRPLE** - GFP Tag - V

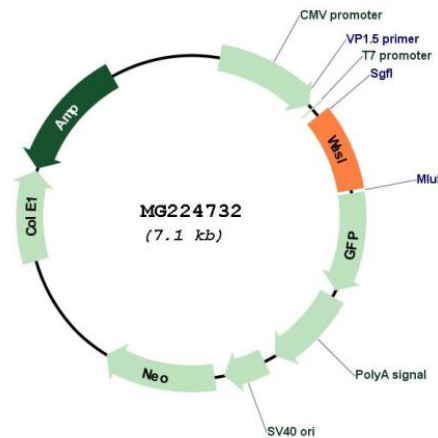
**Restriction Sites:** SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_001167745

ORF Size: 579 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.

**RefSeq:** NM\_001167745.1, NP\_001161217.1

**RefSeq Size:** 1304 bp

**RefSeq ORF:** 582 bp

**Locus ID:** 73178

**Cytogenetics:** 6 A3.1

**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]