

## Product datasheet for **RG207967**

### **N WASP (WASL) (NM\_003941) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                              |
| Product Name:             | N WASP (WASL) (NM_003941) Human Tagged ORF Clone |
| Tag:                      | TurboGFP   |
| Symbol:                   | N WASP   |
| Synonyms:                 | N-WASP; NWASP; WASPB                             |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)                          |
| E. coli Selection:        | Ampicillin (100 ug/mL)                           |



[View online »](#)

**ORF Nucleotide Sequence:**

>RG207967 representing NM\_003941  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCTCCGTCACGACGAGCCGCCGCCGCCGGAGGTCACCAACGTGGGGTCCCTGTTGCTCACCC  
 CGCAGGAGAACGAGTCCCTCTTCACTTTCTCGCAAGAATGTGTGACTATGTCTTCAGCAGTGGTGCA  
 GTTATATGCAGCAGATCGGAAGTGTATGTGGTCAAAGAAGTGCAGTGGTGTGCTTGTCTTGTAAAGGAC  
 AATCCACAGAGATCTTATTTTTTAAAGATATTTGACATTAAGGATGGGAACTATTGTGGGAACAAGAGC  
 TATAAATAACTTTGTATATAATAGTCCTAGAGGATATTTTCATACCTTTGCTGGAGATACTTGTCAAGT  
 TGCTCTTAATTTTGCCAATGAAGAAGAAGCAAAAAATTCGAAAAGCAGTTACAGACCTTTTGGCCGT  
 CGACAAAGGAAATCTGAGAAAAGACGAGATCCCCAAATGGTCTAATCTACCCATGGCTACAGTTGATA  
 TAAAAATCCAGAAATCACAACAATAGATTTTATGGTCCACAAGTCAACAACATCTCCCATACCAAGA  
 AAAGAAGAAGGAAAAGCTAAAAAGAAGAGATTAAACCAAGCAGATATAGGAACCAAGCAATTTCCAG  
 CACATTGGACATGTTGGTTGGGATCCAAATACAGGCTTTGATCTGAATAATTTGGATCCAGAATTGAAGA  
 ATCTTTTCGATATGTGTGGAATCTCAGAGGCACAACCTAAAGACAGAGAAACATCAAAAGTTATATATGA  
 CTTTATTGAAAAACAGGAGGTGTTGAAGCTGTTAAAAATGAACTGCGGAGGCAAGCACCACCACCTCCA  
 CCACATCAAGGGGAGGGCCACCTCCTCCTCCTCCCTCCACACAACCTCAGGTCCTCCTCCTCCTCCTG  
 CTAGGGGAAGAGGCGCTCCTCCCCACCACCTCAAGAGCTCCCACAGCTGCACCTCCACCACCGCTCC  
 TTCCAGGCCAAGTGTAGCAGTCCCTCCACCACCGCCAAATAGGATGTACCCTCCTCCACCTCCAGCCCT  
 CCCTCCTCAGCACCTTCAAGGCTCCACCACCCTCCATCTGTGTTGGGGTAGGGCCAGTGGCACCAC  
 CCCACCGCTCCACCTCCCTCCTGGGCCACCGCCCCGCTGGCCTGCCTCTGATGGGGACCA  
 TCAGGTTCCAACACTGTCAGGAAACAAAGCAGCTTTTTAGATCAAATTAGAGAGGGTCTCAGCTAAAA  
 AAAGTGGAGCAGAACAGTCGGCCAGTGTCTGCTCTGGACGAGATGCACTGTTAGACCAGATACGACAGG  
 GTATCCAATAAATCTGTGGCTGATGGCCAAGAGTCTACACCACCAACACCTGCACCCACTTCAGGAAT  
 TGTGGGTGCATTAATGGAAGTGTGCAGAAAAGGAGCAAGCCATTCTTCTCAGATGAAGATGAAGAT  
 GAAGATGATGAAGAAGATTTTGAGGATGATGATGAGTGGGAAGAC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG207967 representing NM\_003941  
 Red=Cloning site Green=Tags(s)

MSSVQQQPPPPRRVTNVGSLLLTPQENESLFTFLGKKCVTMSSAVVQLYAADRNCMWSKKCSGVAQLVKD  
 NPQRSYFLRIFDIKDGKLLWEQELYNFVYNSPRGYFHTFAGDTCQVALNFANEEEAkkFRKAVTDLLGR  
 RQRKSEKRRDPPNGPNLPMATVDIKNPEITTNRFYGPQVNNISHTKEKKKGKAKKKRLTKADIGTPSNFQ  
 HIGHVGDWDPNTGFDLNNLDPELKNLFDMCGISEAQLKDRETSKVIYDFIEKTGGVEAVKNELRRQAPPPP  
 PPSRGGPPPPPPPHNSGPPPPARGRAPPSPRPTAAPPSPSPSVAVPPPPPNRMYPPPPPAL  
 PSSAPSGPPPPPSVLGVGPVAPPSPPPPPPPGLPSDGDHQPVTAGNKAALLDQIREGAQLK  
 KVEQNSRPVSCSRDALLDQIRQGIQLKSVADGQESTPPTPAPTSGIVGALMEVMQKRSKAIHSSDEDED  
 EDDEEDFEDDDEWED

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_003941

ORF Size: 1515 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\\_003941.4](#)

RefSeq Size: 4430 bp

RefSeq ORF: 1518 bp

Locus ID: 8976

UniProt ID: [O00401](#)

Cytogenetics: 7q31.32

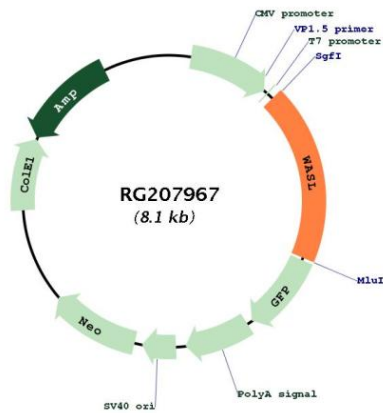
**Domains:** PBD, WH1, WH2

**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:** This gene encodes a member of the Wiskott-Aldrich syndrome (WAS) protein family. Wiskott-Aldrich syndrome proteins share similar domain structure, and associate with a variety of signaling molecules to alter the actin cytoskeleton. The encoded protein is highly expressed in neural tissues, and interacts with several proteins involved in cytoskeletal organization, including cell division control protein 42 (CDC42) and the actin-related protein-2/3 (ARP2/3) complex. The encoded protein may be involved in the formation of long actin microspikes, and in neurite extension. [provided by RefSeq, Jul 2013]

**Product images:**



Circular map for RG207967