

Product datasheet for **MC221677**

Whamm (NM_001004185) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Whamm (NM_001004185) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Whamm
Synonyms:	BB081391; mKIAA1971; Whdc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221677 representing NM_001004185
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

ATGGACAGCGAGCAGCCGACAGCCTGGATGGCTGGGTTCCGCTGCGTGAGGACCTTCCCGAGCCCG
AGCGCCATCAGCTGCGTTTCCTGGTGGCCTGGAACGCGCGGAAGGGCCAGTTCGCCGTCACTGTACGA
CCGCACGGCGCAGCGCGCGCGGCGAGCGCGGGAGGCCGCGACGGGGATGTAGCTGGGCGGGGTG
CTGTGCGCCCGCGGGTTCGCGGCGCGCACCGGCAGCTGGCGGCGCTGTGGCCGGCCCTGGAGCCCTGCT
TCCCGCCGCTGCCGCCGAGCTGGACGCGGCGAGCGGCGGGCTGGGGCCTGGGACGCGGGCTGTGGG
CCTCTGTGGCCGCTCTGTGGCCGGCGCTGCGGACCTGGCGACTCGGCGCTGCAGGAGCTGTGCCG
CAGCTGGAGCACTACCTGGCCCTGGCGGCCAAGGATGCGGGCGGCCACCGTGCAGCGACTGCTCTTCC
CGCCCCGGGTGACTCGCAGACTGCGAGGGCCTGAGCGAGTTCGCGAGAGGACGCTGCGCGCTCGCT
GGCCAAACGGCCACCCGCTGCACCAGTTCTTCAAGATCACGGAAAGCCAATACCATGTTAGCATT
ATGAAAGTTTATCAAGAGGAAGATGAGCTCTATCAAGAATTAGTTACCATGGCAACCACATTCTTCCAGT
ATTTACTGCAGCCATTTAGAGACATGCGAGAAGTTGCAACTTCATGTAAGCTTGGTATTTTGAAGTCCCT
GGATGAGGATGAGCTGGGTCTTGAAGGGTGGCTGCCCTACAGAAGGAAGCCAGTGAATGGACCAGACAG
GCTGAAGAAGCAGTGGGCTCTATCCAAGACATCACTGTGAATATTTTAAAGAAACAGTAACAGCACTAA
CAGGAATGCAGAAACAAATGGAGCAGGATCAGAAGAGATTTGGCCAGGCTGCCTGGGCCACAGCCATGCC
CAGGCTAGAAAATCTCAAGCTCATGTTAGCTCGGAGACTCTGCAGCTTATGAGAGCCAAAGAGCTGTGT
CTAAAACACAGGCAAGCTGAAATCCAGAGAAAGGTGGAAGATCTCCGCGCAAGGAAAGCAGTTAGATG
TGTGGATGAGCTGGAGATACAGTGTTATGAGATCCAGTTGGAGTTGTATGATGTCAAGCTTGAGATGCT
GAGAAATGAGGAGACAATCCTTGTACGCGGTTGGACTCTGTTAAGAGACTTATAACAGAGAAGCAGGCT
GAAGTGATCTACTACGACCCGTGTGAGAGCCCGAGGAGCTGCAGAGCCTGGCTCCTGACCTGAACTGC
ACCTTGTGTACAACAGAGAGCTGAGAGCACTCAGCCAGCAGTGCCAGCGCTGGAGGCTCAGCGGGCCG
CATCTGCTCCAGGAGAGCCCTCCTTAGGAACAGAAAGGATCACTGCCGAGAAAATCATCAGCTCAGACTG
CAGCAGGCCAAACAAAGTCTGAGACACCTTACCAGCACCACAGTATTCAAATGAAGAGAGACAAAGTAA
AAGAGGAAGAACAAAAGAAAAAGAATGGATAGACCATGAACGCCAGAAAACCTTGAGCGGCTAAGAGC
ATATAAGGAGAAGTGCCCGCTCATCGGTCTGCACTGAAAACAATTTGTTGAGAGTCCATGGTGTCAAAC
CTGCCAGGTGGGCTCTCAGAAGAGGCTCTCAACGGCTCACCACCACAAGACAGCTCATCTGCCTCCA
GCAAAACCGGAAGTGCTGTTCCCTTACCTGAAGCCAGTGTGAGACCCCTGAGCATCAAGACCCCTGTGG
CAGTGTCCTGTCCAGGCTTTTGTCTGTTAGTGACCAGACACTGTCTGGATCCAGTGAAGATCTGTCA
CTACCACCACAGCCACCAGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT
CTGCTCTGTCTCTTTTCAAGGTACCACTCATCAGAATTTAGGGCTCAGGACTTTGGCAACAGAGGACCG
GCCACTCCCCTAGCGTGTGACCATCTGCTGGGAGACCATGTGACTACCAGGGTCCAGGCTCTATGGAT
GAAGTGTGGCCCTCTCCGGCAGGGCAAAGCCTCTCCTCGGAAAGTAAAGCCACCTTGCCCCATC
CTGGCACCTCAGTCAATGAACAAGTCTGGCTGCCATCAGACAGGGCGTGCAGCTGAAGAAAGTCCACAC
GGGCCAAGGTGTGGATCCCGCAAGAAGAGCACCCAGCGACCTGGAGAGGAGCATCAGAGAAGCCCTGGAG
AGAATCAAGAAAGTTTCTGCCGACTCAGAGGAGGACAATGATGAGCCGAGCCCCTGAGTGGGACCGCT
AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001004185
Insert Size: 2382 bp

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).
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:	<ol style="list-style-type: none">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_001004185.3 , NP_001004185.3
RefSeq Size:	3069 bp
RefSeq ORF:	2382 bp
Locus ID:	434204
UniProt ID:	Q571B6
Cytogenetics:	7 D3
Gene Summary:	Acts as a nucleation-promoting factor (NPF) that stimulates Arp2/3-mediated actin polymerization both at the Golgi apparatus and along tubular membranes. Involved as a regulator of Golgi positioning and morphology. Its activity in membrane tubulation requires F-actin and interaction with microtubules. Proposed to use coordinated actin-nucleating and microtubule-binding activities of distinct WHAMM molecules to drive membrane tubule elongation; when MT-bound can recruit and remodel membrane vesicles but is prevented to activate the Arp2/3 complex. Required for RhoD-dependent actin reorganization such as in cell adhesion and cell migration (By similarity). Participates in vesicle transport between the reticulum endoplasmic and the Golgi complex.[UniProtKB/Swiss-Prot Function]