OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC216211

WHAMM (NM_001080435) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WHAMM (NM_001080435) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WHAMM
Synonyms:	WHAMM1; WHDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC216211 representing NM_001080435
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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ATGGAGGACGAGCAGCCTGACAGCCTGGAGGGCTGGGTGCCGGTCCGGGAGGGCCTCTTCGCCGAGCCCG
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TTGGAAAGTTTTTCATGTCCAGGATCTATGGATGAAGTGTTGGCCTCCTTAAGGCATGGCAGAGCTCCTC
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ACTCTGAGGAGGACAGTGATGAGCAGGACCCTGGCCAGTGGGATGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216211 representing NM_001080435
Red=Cloning site Green=Tags(s)

MEDEQPDSLEGWVPVREGLFAEPERHRLRFLVAWNGAEGKFAVTCHDRTAQQRRLREGARLGPEPEPKPE
AAVSPSSWAGLLSAAGLRGAHRQLAALWPPLERCFPRLPPELDVGGGGAWGLGLGLWALLWPTRAGPGEA
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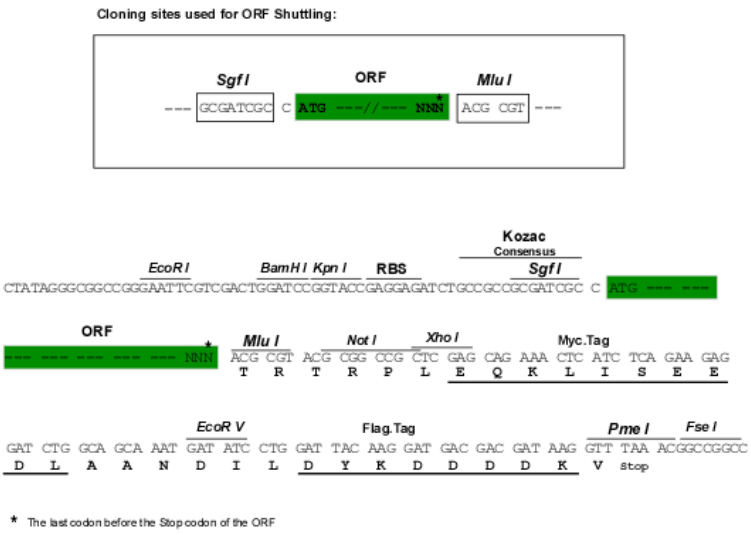
LIKEKQDEVVYYDPCENPEELKVIDCVVGLQDDKNLEVKELRRQCQQLESKRGRICAKRASLRSRKDQCK
ENHRFRLQQAEESIRYSRQHHSIQMKRDKIKEEEQKKKEWINQERQKTLQRLRSFKDKRLAQSVRNTSGS
EPVAPNLPSDLSQQMCLPASHAVSVIHPSSRKTRGVPLSEAGNVKSPKCQNCHGNIPVQVFVPVGDQTHS
KSSEELSLPPPPPPPPPPPPPPPPPPLRALSSSSQAATHQNLGFRAPVKDDQPRPLVCESPAERPRDS
LESFSCPGSMDEVLASLRHGRAPLRKVEVPAVRPPHASINEHILAAIRQGVKLKKVHPDLGPNPSSKPTS
NRRTSDLERSIKAALQRIKRVSADSEEDSDEQDPGQWDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8017_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001080435
ORF Size:	2427 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_001080435.3

RefSeq Size: 4261 bp

RefSeq ORF: 2430 bp

Locus ID: 123720

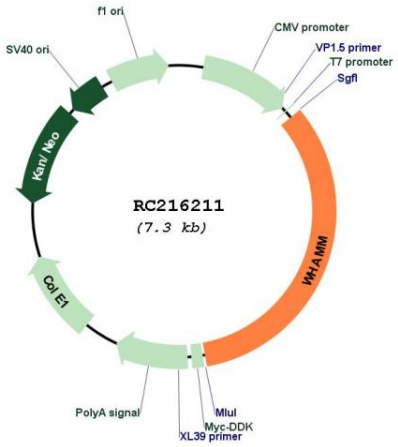
UniProt ID: Q8TF30

Cytogenetics: 15q25.2

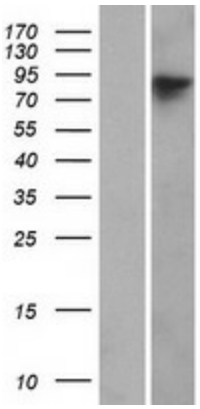
MW: 90.7 kDa

Gene Summary: This gene encodes a protein that plays a role in actin nucleation, Golgi membrane association and microtubule binding. The encoded protein is a nucleation-promoting factor that regulates the Actin-related protein 2/3 complex. The activated complex initiates growth of new actin filaments by binding to existing actin filaments. The encoded protein also functions in regulation of transport from the endoplasmic reticulum to the Golgi complex and in maintenance of the Golgi complex near the centrosome. Four pseudogenes of this gene are present on the same arm of chromosome 15 as this gene. [provided by RefSeq, Aug 2013]

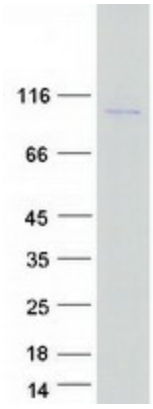
Product images:



Circular map for RC216211



Western blot validation of overexpression lysate (Cat# [LY421652]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216211 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WHAMM protein (Cat# [TP316211]). The protein was produced from HEK293T cells transfected with WHAMM cDNA clone (Cat# RC216211) using MegaTran 2.0 (Cat# [TT210002]).