WAC cDNA Clone – Ww Domain Containing Adaptor with Coiled-Coil (Human)

PRODUCT OVERVIEW

Product Name	WAC, cDNA Clone
Full Product Name	WAC cDNA Clone
Product Gene Name	WAC cdna clone
Sequence	atgtctttaa catctgatgc gtcatcccca agatcatatg tttctccaag aataagcaca cctcaaacta acacagtccc tatcaaacct ttgatcagta ctcctcctgt ttcatcacag ccaaaggtta gtactccagt agttaagcaa ggaccagtgt cacagtcagc cacacagcag cctgtaactg ctgacaagca gcaaggtcat gaacctgtct ctcctcgaag tcttcagcgc tcaagtagcc agagaagtcc atcacctggt cccaatcata cttctaatag tagtaatgca tcaaatgcaa cagttgtacc acagaattct tctgcccgat ccacgtgttc attaacgcct gcactagcag cacacttcag tgaaaatctc ataaaacacg ttcaaggatg gcctgcagat catgcagaga ggcaggcatc aagattacgc gaagaagcgc ataacatggg aactattcac atgtccgaaa tttgtactga attaaaaaat ttaagatctt tagtccgagt atgtgaaatt caagcaactt tgcgagagca aaggatacta tttttgagac aacaaattaa ggaacttgaa aagctaaaaa atcagaattc cttcatggtg tga
Molecular Weight	59,505 Da
OMIM	615049
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for WAC cdna clone	MBS1270293 is a cDNA clone targeting WAC.
Other Notes	Small volumes of WAC cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WAC. It may not necessarily be applicable to this product.

NCBI GI #	14714459
NCBI GeneID	51322
NCBI Accession #	BC010356
UniProt Secondary Accession #	Q53EN9; Q5JU75; Q5JU77; Q5VXK0; Q5VXK2; Q8TCK1; A8K2A9; C9JBT9; D3DRW5; D3DRW6; D3DRW7
UniProt Related Accession #	Q9BTA9
NCBI Official Full Name	Homo sapiens WW domain containing adaptor with coiled-coil, mRNA
NCBI Official Synonym Full Names	WW domain containing adaptor with coiled-coil
NCBI Official Symbol	WAC
NCBI Official Synonym Symbols	Wwp4; DESSH; BM-016; PRO1741
UniProt Protein Name	WW domain-containing adapter protein with coiled-coil
Protein Family	Fibritin
UniProt Gene Name	WAC
UniProt Synonym Gene Names	KIAA1844

UniProt Entry Name	WAC_HUMAN
NCBI Protein Information	WW domain-containing adapter protein with coiled-coil
NCBI Summary for WAC	The protein encoded by this gene contains a WW domain, which is a protein module found in a wide range of signaling proteins. This domain mediates protein-protein interactions and binds proteins containing short linear peptide motifs that are proline-rich or contain at least one proline. This gene product shares 94% sequence identity with the WAC protein in mouse, however, its exact function is not known. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2008]
UniProt Comments for WAC	WAC: Acts as a linker between gene transcription and histone H2B monoubiquitination at 'Lys-120' (H2BK120ub1). Interacts with the RNA polymerase II transcriptional machinery via its WW domain and with RNF20-RNF40 via its coiled coil region, thereby linking and regulating H2BK120ub1 and gene transcription. Regulates the cell-cycle checkpoint activation in response to DNA damage. Positive regulator of amino acid starvation-induced autophagy. May negatively regulate the ubiquitin proteasome pathway. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 10p12.1|10p12.1-p11.2 Cellular Component: nucleoplasm; nucleus Molecular Function: chromatin binding; protein binding Biological Process: histone monoubiquitination; negative regulation of proteasomal ubiquitin-dependent protein catabolic process; positive regulation of macroautophagy; positive regulation of transcription, DNA-dependent; response to DNA damage stimulus Disease: Desanto-shinawi Syndrome
Research Articles on WAC	**1.** WAC loss-of-function mutations cause a recognisable syndrome characterised by dysmorphic features, developmental delay and hypotonia and recapitulate 10p11.23 microdeletion syndrome
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