PAAF1 cDNA Clone – Proteasomal Atpase-Associated Factor 1 (Human)

PRODUCT OVERVIEW

Product Name	PAAF1, cDNA Clone
Full Product Name	PAAF1 cDNA Clone
Product Gene Name	PAAF1 cdna clone
Sequence	atggcggcgc ctttgaggat tcagagcgac tgggcgcaag ccctcaggaa ggatgaaggg gaggcctggc tgagctgtca tcccccaggg aaaccatctt tgtatggcag cctgacttgt caaggaattg gcctagatgg catcccagag gttacagctt cagaaggatt tactgtgaat gaaataaaca agaaaagcat tcatatttca tgtccaaagg aaaatgcatc ttctaagttt ttggcaccat atactacttt ttccagaatt catacaaaga gtataacatg cctggacatt tccagcagag gaggtcttgg tgtgtcttct agtactgacg ggaccatgaa aatctggcag gcttccaatg gagaactcag gagagtattg gaaggacatg tgtttgatgt gaattgttgc aggtttttcc catcaggcct tgtggtcctg agtgggggaa tggatgccca gctgaagata tggtcagctg aagatgctag ctgcgtggtg accttcaaag gtcacaaagg aggtatcctg gatacagcca tcgttgatcg ggggaggaat gtggtgtctg cttctcgaga tgggacagca cgactttggg attgtgggcg ctcaggctgc ttgggagtcc ttgcagattg tggttcttct atcaatggag tggcggtggg tgctgctgac aactccataa accttggctc ccctgagcag atgcccagtg aacgggaggt tggaacagag gccaaaatgc tgctcttggc ccgggaagat aagaaacttc agtgcttggg actacagagc aggcagctgg tgttcctctt tattggctca gacgctttca actgctgtac ttttctctct ggcttcttgc tattggctgg gactcaagat ggaaacattt atcagctgga tgtgaggagt ccaagggctc cggtacaagt catccacaga tcaggagcac cagttctatc cctgctaagt gtcagagatg gattcattgc tagccaaggt gatggaagct gttttattgt ccagcaagac ttagactatg tcactgagct cactggggct gactgtgacc ctgtgtacaa ggtagccaca tgggagaagc agatctacac atgctgtcga gacggtcttg tacgacgcta ccagctttct gacctctga
Molecular Weight	29,982 Da
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PAAF1 cdna clone	MBS1267725 is a cDNA clone targeting PAAF1.
Other Notes	Small volumes of PAAF1 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 PAAF1. It may not necessarily be applicable to this product.

NCBI GI #	18204857
NCBI GeneID	80227
NCBI Accession #	BC021541
UniProt Secondary Accession #	Q4G165; Q53HS9; Q7Z500; Q8TBU6; Q9HAB6; A6NDR5; B4DPB0; B7ZAS9
UniProt Related Accession #	Q9BRP4
NCBI Official Full Name	Homo sapiens proteasomal ATPase-associated factor 1, mRNA
NCBI Official Synonym Full Names	proteasomal ATPase associated factor 1
NCBI Official Symbol	PAAF1
NCBI Official Synonym Symbols	PAAF; Rpn14; WDR71
UniProt Protein Name	Proteasomal ATPase-associated factor 1
UniProt Synonym Protein Names	Protein G-16; WD repeat-containing protein 71

Protein Family	Probable proteasomal ATPase-associated factor
UniProt Gene Name	PAAF1
UniProt Synonym Gene Names	WDR71
UniProt Entry Name	PAAF1_HUMAN
NCBI Protein Information	proteasomal ATPase-associated factor 1
NCBI Summary for PAAF1	This gene encodes a WD repeat-containing protein involved in regulation of association of proteasome components. During HIV infection, the encoded protein is thought to promote provirus transcription through recruitment of the 19S regulatory complex. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jun 2012]
UniProt Comments for PAAF1	PAAF1: Inhibits proteasome 26S assembly and proteolytic activity by impairing the association of the 19S regulatory complex with the 20S core. In case of HIV-1 infection, recruited by viral Tat to the HIV-1 promoter, where it promotes the recruitment of 19S regulatory complex through dissociation of the proteasome 26S. This presumably promotes provirus transcription efficiency. Belongs to the WD repeat PAAF1/RPN14 family. 2 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 11q13.4 Cellular Component: proteasome complex Molecular Function: protein binding
Research Articles on PAAF1	**1.** These results show that intracellular levels of Spt6 are fine-tuned by PAAF1 and proteasome, which is required for HIV-1 transcription and extends to cellular genes implicated in cancer.
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