RPAP2 cDNA Clone – RNA Polymerase II Associated Protein 2 (Human)

PRODUCT OVERVIEW

Product Name	RPAP2, cDNA Clone
Full Product Name	RPAP2 cDNA Clone
Product Gene Name	RPAP2 cdna clone
Sequence	atggcggact tcgctgggcc gtcttctgcc ggccgcaagg ccggggctcc ccgctgctct cgaaaagccg caggtactaa acagacaagt actttgaaac aagaagatgc ttctaaaagg aaagctgaac tagaagcagc tgtgagaaag aagattgaat ttgagagaaa agctctacat attgttgaac agcttttaga ggagaatatt acagaagagt tcctaatgga gtgtgggagg ttcattacac ctgctcacta cagtgatgtc gtggatgaac gttctattgt caaactctgt ggttatcctt tatgtcagaa gaagctggga attgtaccaa aacagaaata taaaatttct accaaaacca ataaagtcta tgatattact gaaagaaagt ctttttgcag caatttttgt tatcaagcat ctaagttttt tgaagcacaa attcccaaaa ctccagtatg ggttcgagaa gaagagaggc atcctgattt tcaactgcta aaggaagaac aaagtggcca ttctggagaa gaagtacagt tatgcagtaa agccattaaa acatcagata tcgacaatcc tagccacttt gaaaagcaat atgaatctag ttcttctagc actcacagtg atagtagcag tgacaatgag caagactttg tttcctccat tctaccagga aacagaccaa attcaacaaa tattagacca cagctgcacc aaaaaagcat aatgaaaaag aaagctggtc acaaagctaa ctccaaacac aaagacaaag aacagacagt agtagatgtc actgagcagt taggcgattg caaattagat agtcaggaga aagatgctac atgtgaactt cctttacaga aagtaaatac tcagagttct tcaaatagca ctttgcctga aagattaaaa gcgtcagaaa attctgaaag tgaatacagt aggtcagaaa taactctagt aggcataagt aagaaaagtg cagagcattt taagagaaaa tttgccaaat caaaccaagt gtctaggtca gtgtctagtt cagtgcaggt gtgtcctgaa gttggaaaga gaaacttact taaagttttg aaggagactt tgattgagtg gaagacagaa gaaacattga ggtttttgta tggccagaat tatgcttctg tgtgtctgaa acccgaagcc tctctggtta aagaagaact tgatgaagat gacataatct cagatccaga tagtcatttc cctgcctgga gggaatctca gaacagcttg gatgagtctt tacctttag gggctcaggt acagccatta aaccactgcc aagttacgag aatttgaaaa aagaaactga aaagttaaat ctgaggatca gggagtttta cagaggacgg tatgttttgg gtgaagaaac caccaaatca caagactcag aagagcatga ttccaccttt ccactgatag actcaagttc ccagaaccag attagaaaac gcatcgtact tgaaaagttg agtaaagtgt tgcctgggct tctggttcct cttcagatta cattgggaga tatttacaca caacttaaaa atcttgttcg aactttcagg ttaacaaata gaaatattat acacaaacct gcggaatgga ctttaattgc tatggtgttg ctgtcattac tgaccccaat tcttggcatt cagaaacatt ctcaggaagg tatggtgttt acacggtttc tagacaccct ccttgaagaa ttacatctaa aaaatgaaga ccttgaaagt ctaaccatca tatttagaac cagctgttta ccagagtga
Molecular Weight	66,473 Da
OMIM	611476
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 RPAP2 cdna clone	MBS1275550 is a cDNA clone targeting RPAP2.
Other Notes	Small volumes of RPAP2 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 RPAP2. It may not necessarily be applicable to this product.

NCBI GI #	24659228
NCBI GeneID	79871
NCBI Accession #	BC039014
UniProt Secondary Accession #	Q49AS7; Q9H8Y2; C9JKB5
UniProt Related Accession #	Q8IXW5
NCBI Official Full Name	Homo sapiens RNA polymerase II associated protein 2, mRNA

NCBI Official Synonym Full Names	RNA polymerase II associated protein 2
NCBI Official Symbol	RPAP2
NCBI Official Synonym Symbols	Rtr1; C1orf82
UniProt Protein Name	Putative RNA polymerase II subunit B1 CTD phosphatase RPAP2
UniProt Synonym Protein Names	RNA polymerase II-associated protein 2
Protein Family	Putative RNA polymerase II subunit B1 CTD phosphatase
UniProt Gene Name	RPAP2
UniProt Synonym Gene Names	C1orf82
UniProt Entry Name	RPAP2_HUMAN
NCBI Protein Information	putative RNA polymerase II subunit B1 CTD phosphatase RPAP2
UniProt Comments for RPAP2	RPAP2: Protein phosphatase that displays CTD phosphatase activity and regulates transcription of snRNA genes. Recognizes and binds phosphorylated 'Ser-7' of the C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and mediates dephosphorylation of 'Ser-5' of the CTD, thereby promoting transcription of snRNA genes. Belongs to the RPAP2 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 3.1.3.16; Protein phosphatase, Ser/Thr (non-receptor) Chromosomal Location of Human Ortholog: 1p22.1 Cellular Component: cytoplasm; DNA-directed RNA polymerase II, holoenzyme; nucleolus; nucleoplasm; nucleus Molecular Function: CTD phosphatase activity; protein serine/threonine phosphatase activity Biological Process: snRNA transcription; snRNA transcription from RNA polymerase II promoter
Research Articles on RPAP2	**1.** These results suggest that RPAP2 controls Pol II activity through a direct interaction with Rpb6
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