

DNA-directed RNA polymerase II subunit RPB1 Recombinant Protein | RplI215 recombinant protein

Recombinant Drosophila melanogaster DNA-directed RNA polymerase II subunit RPB1

CATALOG # AAA115759	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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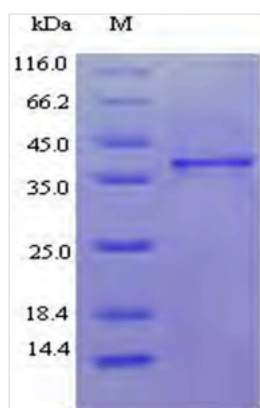
PRODUCT SYNONYMS

DNA-directed RNA polymerase II subunit RPB1; Recombinant Drosophila melanogaster DNA-directed RNA polymerase II subunit RPB1; DNA-directed RNA polymerase III largest subunit; RplI215 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1579-1881
Sequence	YSPTSPNYTA SSPGGASPNY SPSSPNYSPT SPLYASPRYA STTPNFPNQS TGYSPSSSGY SPTSPVYSPT VQFQSSPSFA GSGSNIYSPG NAYSPSSSNY SPNSPSYSPT SPSYSPSSPS YSPTSPCYSP TSPSYSP TSP NYTPVTSPSY PTSPNYSASP QYSPASPAYS QTGVKYSPTS PTYSPSPSY DGSPGSPQYT PGSPQYSPAS PKYSPTSPLY SPSSPQHSPS NQYSPTGSTY SATSPRYSPN MSIYSPSSTK YSPTSPTYTP TARNYSPTSP MYSPTAPSHY SPTSPAYSPS SPT
Sequence Length	1887
Species	Drosophila melanogaster (Fruit fly)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for RplI215 recombinant protein	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Largest and catalytic component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Forms the polymerase active center together with the second largest subunit. Pol II is the central component of the basal RNA polymerase II transcription machinery. It is composed of mobile elements that move relative to each other. RPB1 is part of the core element with the central large cleft, the clamp element that moves to open and close the cleft and the jaws that are thought to grab the incoming DNA template. At the start of transcription, a single-stranded DNA template strand of the promoter is positioned within the central active site cleft of Pol II. A bridging helix emanates from RPB1 and crosses the cleft near the catalytic site and is thought to promote translocation of Pol II by acting as a ratchet that moves the RNA-DNA hybrid through the active site by switching from straight to bent conformations at each step of nucleotide addition. During transcription elongation, Pol II moves on the template as the transcript elongates. Elongation is influenced by the phosphorylation status of the C-terminal domain (CTD) of Pol II largest subunit (RPB1), which serves as a platform for assembly of factors that regulate transcription initiation, elongation, termination and mRNA processing
References	"Analysis of the gene encoding the largest subunit of RNA polymerase II in Drosophila." Jokerst R.S., Weeks J.R., Zehring W.A., Greenleaf A.L. Mol. Gen. Genet. 215:266-275(1989)

NCBI AND UNIPROT INFORMATION

NCBI GI #	17530899
NCBI GeneID	32100
NCBI Accession #	NP_511124.1
NCBI GenBank Nucleotide #	NM_078569.3
UniProt Accession #	P04052 ; Q9VYX6
Molecular Weight	33.6 kDa
NCBI Official Full Name	RNA polymerase II 215kD subunit
NCBI Official Synonym Full Names	RNA polymerase II 215kD subunit
NCBI Official Symbol	RplI215
NCBI Official Synonym Symbols	5; 8WG16; alphaPol Ilo[ser2]; CG1554; CTD; DmelCG1554; dRpb1; dRPB1; H5; II; Ilo; I(1)10Ca; I(1)DC912; I(1)DF912; I(1)G0040; I(1)L5; L5; POL; pol II; Pol II; Pol II CTD; Pol II Ser5p; Pol II Ser5P; Pol II0[ser2]; Pol IIO[ser5]; Pol Ila; Pol Ilo; Pol Ilofs
NCBI Protein Information	CG1554 gene product from transcript CG1554-RA
UniProt Protein Name	DNA-directed RNA polymerase II subunit RPB1
UniProt Gene Name	RplI215
UniProt Synonym Gene Names	RNA polymerase II subunit B1
UniProt Entry Name	RPB1_DROME

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/rpii215-recombinant-protein-e-coli/115759>