RNA Polymerase II Elongation Factor ELL3 (ELL3) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA polymerase II elongation factor ELL3 (Ell3), Recombinant Protein
Full Product Name	Recombinant Mouse RNA polymerase II elongation factor ELL3 (Ell3)
Product Gene Name	Ell3 recombinant protein
Product Synonym Gene Name	Ell3
Sequence	MEGTQEALSG KMRLLFTPAA RTSLLMLRLN EAALRALQEC QQQQVRPVIA FQGHRGYLRF PGPGWSCLFS FIVSQCGQEG TNGGLDLVYQ RLGRSGPNCL HCLGSLRERL TIWAAMDTIP APLLAQEHLT EGTRESESWQ DTGDEPEGHP QLAPDEVSDP LASHHEQSLP GSSSEPMAQW EMRNHTYLPS REPDQSLLSP ASQKRLDKKR SAPITTEEPE EKRLRALPLA SSPLQGLANQ DSQEGEDWGQ DEDEEGDEDG DSRLEQSLSA PSASESPSPE EVPDYLLQYR AIHSTEQQQA YEQDFETDYA EYRILHARVG AASQRFTELG AEIKRLQRGT PEHKVLEDKI VQEYKKFRKR YPSYREEKHR CEYLHQKLSH IKGLILEFEE KNRGS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	44,762 Da
Sequence Positions	1-395, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q80VR2
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ell3 recombinant protein	MBS1380456 is a recombinant protein targeting Ell3. Also known as Recombinant Mouse RNA polymerase II elongation factor ELL3 (Ell3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Ell3 recombinant protein 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 Ell3. It may not necessarily be applicable to this product.

NCBI GI #	35901198
NCBI GeneID	269344
NCBI Accession #	NP_666085.2
UniProt Primary Accession #	Q80VR2

UniProt Secondary Accession #	A2ARQ1
UniProt Related Accession #	Q80VR2
GenBank Nucleotide #	NM_145973.2
NCBI Official Full Name	RNA polymerase II elongation factor ELL3
NCBI Official Synonym Full Names	elongation factor RNA polymerase II-like 3
NCBI Official Symbol	Ell3
NCBI Official Synonym Symbols	A930015D22Rik
UniProt Protein Name	RNA polymerase II elongation factor ELL3
Protein Family	RNA polymerase II elongation factor
UniProt Gene Name	Ell3
NCBI Protein Information	RNA polymerase II elongation factor ELL3
UniProt Comments for Ell3	Enhancer-binding elongation factor that specifically binds enhancers in embryonic stem cells (ES cells), marks them, and is required for their future activation during stem cell specification. Elongation factor component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. Component of the little elongation complex (LEC), a complex required to regulate small nuclear RNA (snRNA) gene transcription by RNA polymerase II and III. Does not only bind to enhancer regions of active genes, but also marks the enhancers that are in a poised or inactive state in ES cells and is required for establishing proper RNA polymerase II occupancy at developmentally regulated genes in a cohesin-dependent manner. Probably required for priming developmentally regulated genes for later recruitment of the super elongation complex (SEC), for transcriptional activation during differentiation. Required for recruitment of P-TEFb within SEC during differentiation. Probably preloaded on germ cell chromatin, suggesting that it may prime gene activation by marking enhancers as early as in the germ cells. Promoting epithelial-mesenchymal transition (EMT).
Research Articles on Ell3	**1.** Study found that Ell3, a member of the Ell (eleven-nineteen lysine-rich leukemia gene) family of RNA Pol II elongation factors, occupies enhancers in embryonic stem cells.
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