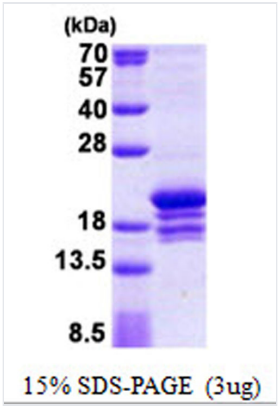
POLE3 Recombinant Protein

PRODUCT OVERVIEW

Product Name	POLE3, Recombinant Protein
Full Product Name	POLE3, 1-147aa, Human, His tag, E Coli
Product Gene Name	POLE3 recombinant protein
Product Synonym Names	DNA polymerase epsilon subunit 3; CHARAC17; CHRAC17; p17; YBL1
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAERPED LNLPNAVITR IIKEALPDGV NISKEARSAI SRAASVFVLY ATSCANNFAM KGKRKTLNAS DVLSAMEEME FQRFVTPLKE ALEAYRREQK GKKEASEQKK KDKDKKTDSE EQDKSRDEDN DEDEERLEEE EQNEEEEVDN
Host	E Coli
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT.
Purity/Purification	> 90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	19kDa (170aa), confirmed by MALDI-TOF
OMIM	AF226077 mRNA
3D Structure	ModBase 3D Structure for Q9NRF9
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for POLE3 recombinant protein	Epigenomics
Applications Tested/Suitable for POLE3 recombinant protein	SDS-PAGE
Related Product Information for POLE3 recombinant protein	POLE3 is a histone-fold protein that interacts with other histone-fold proteins to bind DNA in a sequence-independent manner. These histone-fold protein dimers combine within larger enzymatic complexes for DNA transcription, replication, and packaging. POLE3 has been shown to interact with SMARCA5. Recombinant human POLE3 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for POLE3 recombinant protein	Bolognese F, Imbriano C, et al. (2000). Nucleic Acids Res. 28 (19):3830-8.; Li Y, Pursell ZF, et al. (2000). J Biol Chem. 275 (30):23247-52.
Other Notes	Small volumes of POLE3 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.
Searchable Terms for POLE3 purchase	MBS205416 is a recombinant protein targeting POLE3. Also known as POLE3, 1-147aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of POLE3 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POLE3. It may not necessarily be applicable to this product.

NCBI GI #	224586804
NCBI GeneID	54107
NCBI Accession #	NP_059139
UniProt Primary Accession #	Q9NRF9
UniProt Secondary Accession #	Q5W0U1; Q8N758; Q8NCE5; Q9NR32
UniProt Related Accession #	Q9NRF9
GenBank Nucleotide #	NM_017443.4
NCBI Official Full Name	DNA polymerase epsilon subunit 3
NCBI Official Synonym Full Names	DNA polymerase epsilon 3, accessory subunit
NCBI Official Symbol	POLE3
NCBI Official Synonym Symbols	p17; YBL1; CHRAC17; CHARAC17
UniProt Protein Name	DNA polymerase epsilon subunit 3
UniProt Synonym Protein Names	Arsenic-transactivated protein; AsTP; Chromatin accessibility complex 17 kDa protein; CHRAC-17; HuCHRAC17; DNA polymerase II subunit 3; DNA polymerase epsilon subunit p17
Protein Family	DNA polymerase
UniProt Gene Name	POLE3
UniProt Synonym Gene Names	CHRAC17; AsTP; CHRAC-17; HuCHRAC17
NCBI Protein Information	DNA polymerase epsilon subunit 3
NCBI Summary for POLE3	POLE3 is a histone-fold protein that interacts with other histone-fold proteins to bind DNA in a sequence-independent manner. These histone-fold protein dimers combine within larger enzymatic complexes for DNA transcription, replication, and packaging.[supplied by OMIM, Apr 2004]
UniProt Comments for POLE3	Forms a complex with DNA polymerase epsilon subunit CHRAC1 and binds naked DNA, which is then incorporated into chromatin, aided by the nucleosome-remodeling activity of ISWI/SNF2H and ACF1.
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