Datasheet for ABIN7555054

POLK Protein (AA 1-870) (His tag)

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Overview

Quantity:	1 mg
Target:	POLK
Protein Characteristics:	AA 1-870
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLK protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant POLK Protein expressed in mammalian cells.
Sequence:	MDSTKEKCDS YKDDLLLRMG LNDNKAGMEG LDKEKINKII MEATKGSRFY GNELKKEKQV NQRIENMMQQ KAQITSQQLR KAQLQVDRFA MELEQSRNLS NTIVHIDMDA FYAAVEMRDN PELKDKPIAV GSMSMLSTSN YHARRFGVRA AMPGFIAKRL CPQLIIVPPN FDKYRAVSKE VKEILADYDP NFMAMSLDEA YLNITKHLEE RQNWPEDKRR YFIKMGSSVE NDNPGKEVNK LSEHERSISP LLFEESPSDV QPPGDPFQVN FEEQNNPQIL QNSVVFGTSA QEVVKEIRFR IEQKTTLTAS AGIAPNTMLA KVCSDKNKPN GQYQILPNRQ AVMDFIKDLP IRKVSGIGKV TEKMLKALGI ITCTELYQQR ALLSLLFSET SWHYFLHISL GLGSTHLTRD GERKSMSVER TFSEINKAEE QYSLCQELCS ELAQDLQKER LKGRTVTIKL KNVNFEVKTR ASTVSSVVST AEEIFAIAKE LLKTEIDADF PHPLRLRLMG VRISSFPNEE DRKHQQRSII GFLQAGNQAL SATECTLEKT DKDKFVKPLE MSHKKSFFDK KRSERKWSHQ DTFKCEAVNK QSFQTSQPFQ VLKKKMNENL EISENSDDCQ ILTCPVCFRA QGCISLEALN KHVDECLDGP SISENFKMFS CSHVSATKVN KKENVPASSL CEKQDYEAHP KIKEISSVDC IALVDTIDNS SKAESIDALS

Product Details

	NKHSKEECSS LPSKSFNIEH CHQNSSSTVS LENEDVGSFR QEYRQPYLCE VKTGQALVCP VCNVEQKTSD LTLFNVHVDV CLNKSFIQEL RKDKFNPVNQ PKESSRSTGS SGVQKAVTR TKRPGLMTKY STSKKIKPNN PKHTLDIFFK **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	POLK
Alternative Name:	POLK (POLK Products)
Background:	DNA polymerase kappa (EC 2.7.7.7) (DINB protein) (DINP),FUNCTION: DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls. Depending on the context, it inserts the correct base, but causes frequent base transitions, transversions and frameshifts. Lacks 3'-5' proofreading exonuclease activity. Forms a Schiff base with 5'-

Target Details

	deoxyribose phosphate at abasic sites, but does not have lyase activity. {ECO:0000269|PubMed:10620008, ECO:0000269|PubMed:11024016, ECO:0000269|PubMed:12145297, ECO:0000269|PubMed:12444249, ECO:0000269|PubMed:12952891, ECO:0000269|PubMed:14630940, ECO:0000269|PubMed:15533436, ECO:0000269|PubMed:28297716}.
Molecular Weight:	98.8 kDa
UniProt:	Q9UBT6
Pathways:	DNA Damage Repair

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months