

Recombinant Full Length Human PRIMPOL Protein, GST-tagged

Cat. No. PRIMPOL-3894HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CCDC111 full-length ORF (BAB71553.1, 1 a.a. - 560 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	560 amino acids
Description	This gene encodes a DNA primase-polymerase that belongs to a superfamily of archaeo-eukaryotic primases. Members of this family have primase activity, catalyzing the synthesis of short RNA primers that serve as starting points for DNA synthesis, as well as DNA polymerase activity. The encoded protein facilitates DNA damage tolerance by mediating uninterrupted fork progression after UV irradiation and reinitiating DNA synthesis. An allelic variant in this gene is associated with myopia 22. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]
Molecular Mass	90.8 kDa
AA Sequence	MNRKWEAKLKQIEERASHYERKPLSSVYRPRLSKPEEPPSIWRLFHRQAQAFNFVK SCKEDVHVFALECKVGDGQRIYLVTTYAEFWFYKSRKNLLHCYEVIPENAVCKLYF DLEFNKPANPGADGKKMVALLIEYVCKALQELYGVNCSAEDVLNLDSSSTDEKFSRHL IFQLHDVAFKDNHVGNFRLRKILQPALDLLGSEDDDSAPETTGHGFPHFSEAPARQG

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FSFNKMFTEKATEESWTSNSKKLERLGSAEQSSPDLSFLVVKNNMGEKHLFVDLGV
YTRNRNFRLYKSSKIGKRVALEVTEDNKFFPIQSKDVSDEYQYFLSSLVSNVRFSDTL
RILTCEPSQNKQKGVGYFNSIGTSVETIEGFQCSPYPEVDHFLVLSLVNKDGIKGGIRR
WNYFFPEELLVYDICKYRWCENIGRAHKSNNIMILVDLKNEVWYQKCHDPVCKAENF
KSDCFPLPAEVCLLFLFKEEEFTTDEADETRSNETQNPHKPSPSRLSTGASADAV
WDNGIDDAYFLEATEDAELEAAEENSLLSYNSEVDEIPDELIIEVLQE

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[PRIMPOL](#) primase and DNA directed polymerase [*Homo sapiens* (human)]

Official Symbol

[PRIMPOL](#)

Synonyms

CCDC111; PRIMPOL; primase and DNA directed polymerase; MYP22; Primpol1;
DNA-directed primase/polymerase protein; coiled-coil domain-containing protein 111;
hPrimpol1; EC 2.7.7.-

Gene ID

[201973](#)

mRNA Refseq

[NM_001300767](#)

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Protein Refseq	NP_001287696
MIM	615421
UniProt ID	Q96LW4

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