

Recombinant Human PRIMPOL Protein, GST-tagged

Cat. No. PRIMPOL-5235H **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	Wheat Germ
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 SCKEDVHVFALECKVGDGQRIYLVTTIAEFWFYKSRKNLLHCYEVIPENAVCKLYF DLEFNKPANPGADGKKMVALLEIYVCKALQELYGVNCSAEDVLNLDSSSTDEKFSRHL IFQLHDVAFKDNHVGNFRLRKILQPALDLLGSEDDDSAPETTGHGFPHFSEAPARQG FSFNKMFTEKATEESWTSNSKKLERLGSAEQSSPDLSFLVVKNNMGEKHLFVDLGV YTRNRNFRLYKSSKIGKRVALEVTEDNKFFPIQSKDVSDEYQYFLSSLVSNVRFSDTL

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RILTCEPSQNKQKGVGYFNSIGTSVETIEGFQCSPYPEVDHFLVSLVNKDGKGGIRR
 WNYFFPEELLVYDICKYRWCENIGRAHKSNNIMILVDLKNEVWYQKCHDPVCKAENF
 KSDCFPLPAEVCLLFLFKEEEFTTDEADETRSNETQNPHKPSPSRLSTGASADAV
 WDNGIDDAYFLEATEDAEAEAAENSLLSYNSEVDEIPDELIIEVLQE

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

Protein Refseq NP_001287696

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MIM	615421
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UniProt ID	Q96LW4
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