

Product datasheet for **RG209004**

Coiled coil domain containing protein 111 (PRIMPOL) (NM_152683) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coiled coil domain containing protein 111 (PRIMPOL) (NM_152683) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Coiled coil domain containing protein 111
Synonyms:	CCDC111; MYP22; Primpol1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209004 representing NM_152683
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAATAGAAAATGGAAGCAAACTGAAGCAAATGAAGAACGAGCATCTCATTATGAGAGGAAACCGT
 TGTCTCAGTGTATAGACCAAGATTGTCCAAGCCAGAAGAACCACCTCCATCTGGAGACTATTTTCATCG
 ACAAGCTCAAGCTTTTAAATTTTGTAAAAAGCTGTAAAGAAGACGTTTCATGTATTTGCTTTGGAATGCAAA
 GTAGGAGATGGACAACGTATTTACCTTGTGACAACCTATGCTGAATTTTGGTTTTACTATAAATCCAGAA
 AAAATCTCTTACACTGCTATGAAGTTATTCCTGAAAATGCTGTGTGCAAGCTTTATTTTGATTTGGAATT
 TAACAAACCTGCCAACCCAGGAGCTGATGGGAAAAAGATGGTTCATTACTCATTGAGTATGTGTGTAA
 GCCTTCAAGAGTTATACGGTGTAAATGCTCAGCTGAAGATGTTTTGAACTGGATTCTAGCACTGATG
 AAAAATTCAGCCGGCATTAAATATTTTCAGCTCCATGATGTGGCATTAAAGATAAATTCATGTTGGTAA
 TTTTTTGAAAAATTTTGCAGCTGCTCTTGACTTGCTTGGCAGTGAAGATGATGATAGCGCTCCAGAG
 ACAACAGGCCATGGATTTCCCATTTTTTCAGAAGCACCTGCAAGACAAGGATTTCTTTCAATAAAATGT
 TCACAGAAAAGGCTACAGAGGAAAGCTGGACATCGAATTCAAAGAAAAGTGGAGAGGCTGGGGTCAGCTGA
 GCAAAGCAGTCTGACCTTTCAATTTCTAGTTGTGAAGAATAACATGGGAGAGAAGCATCTTTTTGTAGAT
 CTCGGAGTTTATACAAGAAATAGAACTTTTCGGCTATATAAATCATCAAAAATGGAAAGCGTGTGGCTT
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 GTTCTCCCTATCTGAAGTTGATCATTTTGTCTTTCTTTGGTGAATAAGATGGCATTAAAGGAGGAAT
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 AACATTGGAAGAGCCATAAGAGTAATAATATAATGATTCTGGTTGATCTGAAAAATGAAGTTTGGTATC
 AAAATGTGATGACCTGTATGTAAAGCAGAAAAGTTCAAATCTGACTGTTTCCCATACCTGCTGAAGT
 ATGTCTCTGTTTCTTTTCAAAGAGGAAGAAGAGTTTACAACAGATGAAGCAGATGAAACTAGGAGCAAT
 GAAACCCAGAATCCTCATAAACCATCACCTAGCAGGCTGTCAACAGGTGCATCTGCTGATGCTGTCTGGG
 ATAATGGCATTGATGATGCTTATTTTTAGAAAGCTACTGAAGATGCTGAATTAGCTGAAGCTGCAGAGAA
 CAGTCTTCTCAGTTATAACAGTGAAGTGGATGAAATCCTGATGAACTAATTATAGAAGTATTACAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209004 representing NM_152683
 Red=Cloning site Green=Tags(s)

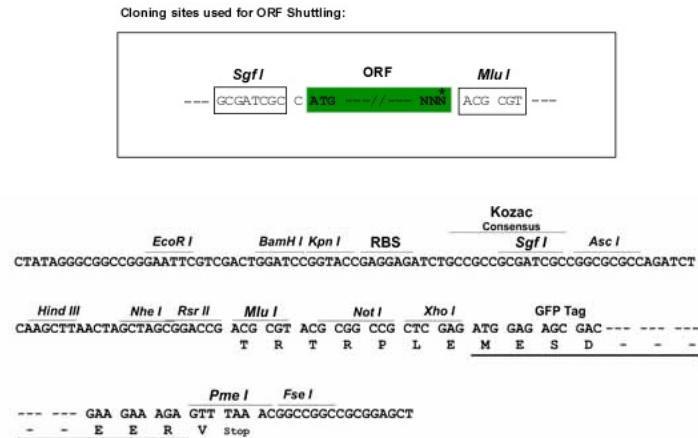
MNRKWEAKLKQIEERASHYERKPLSSVYRPRLSKPEEPPSIWRLFHRQAQAFNFVKSCKEDVHVFALCK
 VGDGQRIYLVTTYAEFWFYKSRKNLLHCYEVIPENAVCKLYFDLEFNKPANPGADGKMKVALLIEYVCK
 ALQELYGVNCSAEDVLNLDSSSTDEKFSRHLIFQLHDVAFKDNHVGNFRLKILQPALDLLGSEDDDSAP
 TTGHGFPHFSEAPARQGFSTNMFTEKATEESWTSNSKKLERLGSAEQSSPDL SFLVVKNNMGEKHLFVD
 LGVYTRNRNRLYKSSKIGKRVALEVTEDNKFPIQSKDVSDEYQYFLSSLVSNVRFSDTLRILTCEPSQ
 NKQKGVGYFNSIGTSVETIEGFQCSPEVDHFLSLVNKDGIGGIRRWNYFFPEELLVYDICKYRWCE
 NIGRAHKSNNIMILVDLKNEVWYQKCHDPVCKAENFKSDCFPLPAEVCLLFLFKEEEFTTDEADETRSN
 ETQNPHKPSPRLSTGASADAVWDNGIDDAYFLEATEDAELAAEAENSLLSYNSEVDEIPDELIIEVLQE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_152683

ORF Size: 1680 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_152683.4](#)

RefSeq Size: 2078 bp

RefSeq ORF: 1683 bp

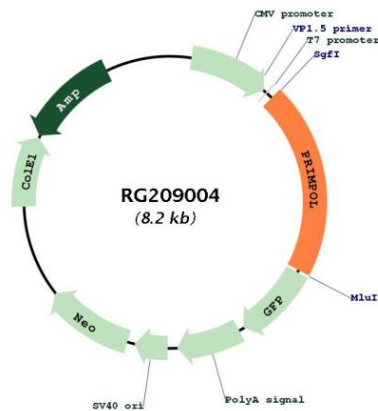
Locus ID: 201973

UniProt ID: [Q96LW4](#)

Cytogenetics: 4q35.1

Gene Summary: 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]

Product images:



Circular map for RG209004