

Product datasheet for **SC100629**

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

Product data:

Product Type:	Expression Plasmids
Product Name:	Coiled coil domain containing protein 111 (PRIMPOL) (NM_152683) Human Untagged Clone
Tag:	Tag Free
Symbol:	Coiled coil domain containing protein 111
Synonyms:	CCDC111; MYP22; Primpol1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_152683, the custom clone sequence may differ by one or more nucleotides

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ATGAATAGAAAATGGGAAGCAAACTGAAGCAAATGAAGAACGAGCATCTCATTATGAGAGGAAACCGT
TGTCTCAGTGTATAGACCAAGATTGTCCAAGCCAGAAGAACCACCTCCATCTGGAGACTATTTTCATCG
ACAAGCTCAAGCTTTTAATTTTGTAAAAGCTGTAAGAAGACGTTTCATGTATTTGCTTTGGAATGCAAA
GTAGGAGATGGACAACGTATTTACCTTGTGACAACCTATGCTGAATTTTGGTTTTACTATAAATCCAGAA
AAAATCTCTTACTGCTATGAAGTTATTCCTGAAAATGCTGTGTGCAAGCTTTATTTTGATTTGGAATT
TAACAAACCTGCCAACCCAGGAGCTGATGGGAAAAAGATGGTTGCATTACTCATTGAGTATGTGTGTAAA
GCCTTCAAGAGTTATACGGTGTAAATGCTCAGCTGAAGATGTTTTGAAGTTGATTCTAGCACTGATG
AAAAATTCAGCCGGCATTAAATATTTTCAGCTCCATGATGTGCCATTTAAAGATAATTCATGTTGGTAA
TTTTTTGAGAAAAATTTGCAGCCTGCTCTTGACTTGCTTGGCAGTGAAGATGATGATAGCGCTCCAGAG
ACAACAGGCCATGGATTTCCCATTTTTTCAGAAGCACCTGCAAGACAAGGATTTTCTTTCAATAAAATGT
TCACAGAAAAGGCTACAGAGGAAAGCTGGACATCGAATTCAAAGAACTGGAGAGCTGGGGTCAGCTGA
GCAAAGCAGTCCCTGACCTTTCTTTCTAGTTGTGAAGAATAACATGGGAGAGAAGCATCTTTTTGTAGAT
CTCGGAGTTTATACAAGAAATAGAACTTTTCGGCTATATAAATCATCAAAAATGGAAAAGCGTGTGGCTT
TGGAGTTACTGAAGATAACAAATTTTTTCTATACAGTCAAAAGATGTTTCTGACGAATATCAATATTT
TCTCTCTTTTGGTCAGCAATGTCAGGTTCTCAGATACTTTACGAATCTTACATGTGAGCCATCTCAG
AATAAACAAAAAGGAGTTGGATATTTAACAGTATCGGCCTTCAGTAGAAACCATTGAAGGTTTTCAGT
GTTCTCCCTATCCTGAAGTTGATCATTTTGTCTTTCTTTGGTGAATAAAGATGGCATTAAAGGAGGAAT
TCGGCGTTGGAAGTACTTTTTCCAGAAGAATTACTGGTTTATGATATTTGTAATAATCGGTGGTGTGAA
AACATTTGGAAGAGCCCATAAAGATAATAATAATGATTCTGGTTGATCTGAAAAATGAAGTTTGGTATC
AAAAATGTCATGACCCGTGATGTAAAGCAGAAAACCTTCAAATCTGACTGTTTCCCATACCTGCTGAAGT
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GAAACCCAGAATCCTCATAAACCATCACCTAGCAGGCTGTCAACAGGTGCATCTGCTGATGCTGTCTGGG
ATAATGGCATTGATGATGCTTATTTTTAGAAAGCTACTGAAGATGCTGAATTAGCTGAAGCTGCAGAGAA
CAGTCTTCTCAGTTATAACAGTGAAGTGGATGAAATCCTGATGAACTAATTATAGAAGTATTACAAGAG
TAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152683 unedited

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AGAATTTTGTAAATACGACTCACTATAGGGCGGCCCGCAATTCGCACGAGGCTCGCGTCC
CGCGCCAGTCTCCCGCTTTGGTCCCAGCCCTGAGGCTCGGCCCGGCTCCCCCGCCCCGGA
TTTGAAATCTAGGTCTTCTGAGAGTCCGCGGGCTTCCGCTCCCAGCGCGGGATTCTGGA
GGGAAATTGAGGGAGACTTGAAACCGCCAGGCCAACGGGTACCTAGAAGGGAGACA
AAGCCAGGCTGCTGCCAGTTTGTAGCTCTGGGAAGAAGAGGAGCAGGCCGGGACGCCCA
CCGAGGTATCCCAGAGGTGACAGAACTTGATCTGGCCTGGAAGGGGAAGAATTCGGGAA
AAGCAACGTGGGGCATTCCAGTAGTAATTGATAGAAATATTACGTGGGATAGGATTTATT
CTCTCCACTTCTGAACCAATGAATAGAAAATGGGAAGCAAACTGAAGCAAATGAAG
AACGAGCATCTCATTATGAGAGGAAACCGTTGCTCCTCAGTGTATAGACCAAGATTGTCCA
AGCCAGAAGAACCACCTCCATCTGGAGACTATTTTCATCGACAAGCTCAAGCTTTTAATT
TTGTTAAAAGCTGTAAGAAGACGTTTCATGTATTTGCTTTGGAATGCAAAGTAGGAGATG
GACAACGTATTTACCTTGTGACAACCTATGCTGAATNTGGTTTTACTATAAATCCAGAA
AAAATCTCTTACTGCTATGAAGTTATTCCTGAAAATGCTGTGTGCAAGCTNTATNTG
ATTTGGAATTTAACAAACCTGCCAACCCAGGAGCTGATGGNGAAAAGATGGTTGCATTAC
TCATTGAGTATGTGTGTAAGCACTTNCAGAGTATACGGTGTTAATTGCTCAGCTGAGAT
GTNTGAACTTGGATCTCACTGATGAAAATCAGCCGATTTATATTTCACTCATGATGTG
CATTAAGATATATCATGTGGTAATNTTGAAG
    
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3' Read Nucleotide Sequence:	<pre>>OriGene 3' read for NM_152683 unedited AATACTGTGNACCGCGGCCGCTTTCTAGNGATCGGTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTACACCAAACCTAATTTTTAATGAAATTGGTTTACAGAAGT AAAAAACAAAAATTGGAAAGCAAAGTAATAAACTTAGTTTATATAAACAGGTTGAATGA TATATTTATCAAATCTCACAGACATCAGGCAAATTATAGCCTGGGGACAAAAGTGTTCAT AGGGAATTAGTTACCCCTTGAATACTTCTATAATTAGTTCATCAGGAATTCATCCACTT CACTGTTATAAAGTAAAAAAGTCTCTCTGCAGCTTCAGCTAATTCAGCATCTTCAGTAG CTTCTAAAAAATAAGCATCATCAATGCCATTATCCCAAACAGCATCAGCAGATGCCCTT TTGACAGCCTGCTAGGTGATGGTTTATGAGGATTCTGGGTTTCATTGCTCCTAGTTTCAT CTGCTTCTCATCTGTTGGAAACTCTTCTTCTTCTTTGAAAAGAAACAGGAGACATACTTCAG CAGGTAATGGGAAACAGTCAGATTTGAAGTTTTCTGCTTTACTACAGGTCATGACATTT TTGATACCAAATTCATTTTTTCTAGATCAACCGAATCATTATATTACTCTTTATGGGC TCTTCCAATGTTTTCCACCACCGATTTACAAATATCATAAACCGTAATTCCTCTGG GAAAAAAGTATCCCAACGCCGAATCCTCCTTTAATGCATCTGAAGTGCCGAAACTGG TTAAATATCCACTCCTTTTTGTAAATTCTGAGAGGCTCCCATGTAATAATCTAAAGATT CGGAGACCCGGCTTTGTGACCAAGAAGAAAGAAATTTGGATTCTCCAAAACATCTTTGA TTGTAAGAAAAAATTTGTTATCTTCAATAACCCCCAG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_152683
Insert Size:	2250 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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.
RefSeq:	NM_152683.1 , NP_689896.1
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]