

## Product datasheet for **RG209816**

### DNA Polymerase lambda (POLL) (NM\_013274) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DNA Polymerase lambda (POLL) (NM_013274) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNA Polymerase lambda
Synonyms:	BETAN; POLKAPPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209816 representing NM\_013274  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATCCAGGGGTATCTTGAAGGCATTTCCAAGCGCAGAAAATTCATGCTGATGCATCATCAAAG  
 TACTTGCAAAGATTCTAGGAGGGAAGAGGGAGAAGAAGCAGAAGAGTGGCTGAGCTCCCTCGGGCCCA  
 TGTGTGCGCACTGGCATTGGACGAGCCCGGCAGAACTTTGAGAAGCAGATTGTTCCAGCATGGCGGC  
 CAGCTATGCCCTGCCAGGGCCAGGTGTCACTCACATTGGTGGATGAAGGCATGGACTATGAGCGAG  
 CCCTCCGCTTCTCAGACTACCCAGCTGCCCCGGGTGCTCAGCTGGTGAAGTCAGCCTGGCTGAGCTT  
 GTGCCCTCAGGAGAGGAGGCTGGTGGATGTAGCTGGATTGAGCATCTTCATCCCCAGTAGGTAAGTGGAC  
 CATCCACAGCCCAGCAAGGCAGAGCAGGATGCTTCTATTCTCCTGGCACCCATGAGGCCCTGCTTCAGA  
 CAGCCCTTCTCCTCCTCCTCCACCAGGCCTGTGTCTCCTCCCAAAGGCAAAAGAGGCACCAAA  
 CACCCAAGCCCAGCCATCTCTGATGATGAAGCCAGTGTGGGAAGAAACCCAGTTAGTGCAGCTGAT  
 CTGGAAGCCCTCATCAGTGGCCACTACCCACCTCCCTTGAGGGAGATTGTGAGCCTAGCCAGCCCTG  
 CTGTCCTGGATAAGTGGGTCTGTGCACAGCCCTCAAGCCAGAAGGCGACCAATCACAACTCCATATCAC  
 AGAGAAGCTGGAAGTTCTGGCAAAGCCTACAGTGTTCAGGGAGACAAGTGGAGGGCCCTGGGCTATGCC  
 AAGGCCATCAATGCCCTCAAGAGCTTCCATAAGCCTGTCACCTCGTACCAGGGGGCTGCAGTATCCCTG  
 GGATTGGGAAGCGGATGGCTGAGAAAATCATAGAGATCCTGGAGAGCGGGCATTTCGGAAGCTGGACCA  
 TATCAGTGAGAGCGTGCCTGTCTTGGAGCTTCTCCAACATCTGGGAGCTGGGACCAAGACTGCCAG  
 ATGTGGTACCAACAGGGCTTCCGAAGCTGGAAGACATCCGACCCAGGCCTCCCTGACAACCCAGCAGG  
 CCATCGGCTGAAGCATTACAGTGAATCCTGGAACGTATGCCAGGGAGGAGGCTACAGAGATTGACCA  
 GACAGTCCAGAAAAGCAGCCAGGCCTTTAACTCTGGGCTGCTGTGTGGCATGTGGTTTCATACCGACGG  
 GAAAAGGCGACCTGTGGTGTGTCGACGTGCTCATCACTACCCAGATGGCCGGTCCCACCGGGGTATCT  
 TCAGCCGCTCCTTGACAGTCTTCGGCAGGAAGGGTTCCTCACAGATGACTTGGTGGAGCAAGAGGAGAA  
 TGGTCAGCAACAGAAGTACTTGGGGGTGTGCCGGCTCCAGGGCCAGGGCGGGCACCGGCGCCTGGAC  
 ATCATCGTGGTGCCTATAGCGAGTTTGCCTGTGCCCTGCTCTACTTCACCGGCTCTGCACACTCAACC  
 GCTCCATGCGAGCCCTGGCCAAAACCAAGGGCATGAGTCTGTGAGAACATGCCCTCAGCACTGCTGTGGT  
 CCGGAACACCCATGGCTGCAAGGTGGGGCTGGCCGAGTGTGCCACTCCCACTGAGAAGGATGTCTTC  
 AGGCTCTTAGGCCTCCCCTACCGAGAACCTGCTGAGCGGGACTGG

**ACGCGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209816 representing NM\_013274  
 Red=Cloning site Green=Tags(s)

MDPRGILKAFPQRQKIHADASSKVLAKIPRREEGEEAEWLSSLRAHVVRTGIGRARAELFEKQIVQHG  
 QLCPAQGPVTHIVVDEGMDYERALLRLLPQLPPGAQLVKSASLSLCLQERRLVDVAGFSIFIPSRYL  
 HPQPSKAEQDASIPPGTHEALLQTALSPPPPTRPVSPQKAKEAPNTQAQPISSDDEASDGEETQVSAAD  
 LEALISGHYPTSLEGDCEPSPAPAVLDKWWCAQPSSQKATNHNHITKLEVLAKAYSQVQDKWRALGYA  
 KAINALKSFHKPVTSYQGACSIPIGIGKMAEKIIEIILESGHLRKLHDHISESVPVLELFSNIWAGTKTAQ  
 MWYQQGFRSLEDIRSQASLTQQAIGLKHYSDFLERMPREEATEIEQTVQKAAQAFNSGLLCVACGSYRR  
 GKATCGDQVDVLI THPDGRSHRGIFSRLLDSLRLQEGFLTDDLVSQEENGQQQKYLGVCRLLPGPGRRHRLD  
 IIVVPYSEFACALLYFTGSAHFNRSMRALAKTKGMSLSEHALSTAVVRNTHGCKVGPGRVLPPTTEKDV  
 RLLGLPYREPAERDW

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_013274

**ORF Size:** 1725 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.

**RefSeq:** [NM\\_013274.2](#), [NP\\_037406.1](#)

**RefSeq Size:** 2702 bp

**RefSeq ORF:** 1728 bp

**Locus ID:** 27343

**UniProt ID:** [Q9UGP5](#)

**Cytogenetics:** 10q24.32

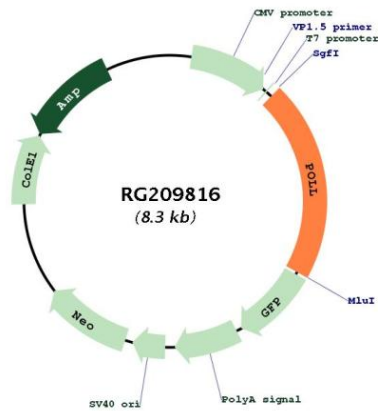
**Domains:** POLXc

**Protein Families:** Druggable Genome

**Protein Pathways:** Base excision repair, Non-homologous end-joining

**Gene Summary:** This gene encodes a DNA polymerase. DNA polymerases catalyze DNA-template-directed extension of the 3'-end of a DNA strand. This particular polymerase, which is a member of the X family of DNA polymerases, likely plays a role in non-homologous end joining and other DNA repair processes. Alternatively spliced transcript variants have been described. [provided by RefSeq, Mar 2010]

**Product images:**



Circular map for RG209816