

## Product datasheet for **MC220331**

### **Poli (NM\_001136090) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Poli (NM_001136090) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Poli
Synonyms:	Rad30b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220331 representing NM\_001136090  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATCTCCAACCCAGAATTAAGGACAGACCTTTAGGTGTGCAACAGAAATACTTGGTGGTTACCTGCA  
 ACTATGAAGCCAGGAAACTGGGTGTGAGGAAGCTTATGAATGTGAGAGATGCGAAGGAAAAGTGTCTCA  
 GCTGGTCTCGTGAACGAGAGAAGACCTGAGCCGCTACAGAGAGATGTCCTATAAGGTCACAGAATTGTTG  
 GAGGAATTTAGTCCAGCTGTTGAGAGACTTGGATTTGATGAAAATTTTGGATCTAACAGAAATGGTGG  
 AAAAAAGACTCCAGCAGCTTCCAAGTGAGGAGGTTCCGTCAGTACTGTGTTCCGCCATGTTTACAATAA  
 CCAGTCTGTGAACCTACACAACATCATGCATCGGAGACTTGTGGTTGGATCGCAGATTGCAGCAGAGATG  
 CGGAAGCCATGTATAATCAGCTCGGGCTCACAGGCTGCGCCGGAGTGGCTCCTAACTCTTGGCAA  
 AGTTAGTGTCTGGGTTTTAAACCAAATCAGCAGACGGTCTTACTACCTGAAAGTTGTCAACATCTCAT  
 TCACAGTTTGAACCACATAAAGGAAATCTCTGGTATCGGCTATAAACTGCCAAGCGTCTCGAAGTTCTG  
 GGAATCAATAGTGTTCATGATCTCCAAACCTTTCCAATCAAACATTAGAAAAAGAAATTAGGAATTGCAA  
 TTGCTCAGCGTATCCAGCAGCTCAGTTTTGGAGAGGACAAGTCTCCCGTCACACCGTCAGGGCCACCACA  
 GTCCTTTAGTGAAGAAGATACGTTTAAAAAGTGTTCCTCAGAAGTGGAAGCTAAAGCTAAGATTGAAGAA  
 TTACTTTCCAGCCTTTTGACCAGAGTATGCCAGGATGGAAGGAAGCCCCATACAGTAAGATTAGTCATCC  
 GTCGGTACTCTGACAAACACTGTAATCGAGAGAGTCGTCAGTGCCTATCCCATCCCACGTCATTAGAA  
 GTTAGGGACAGGAAATCATGACTCCATGCCTCCCTGATTGATATCCTTATGAACTTTTCCGAAATATG  
 GTGAACGTGAAGATGCCCTTTACCTGACTCTTATGAGCGTGTGCTTCTGCAACCTGAAAGCCCTGAGCA  
 GTGCTAAGAAAGGGCCTATGGACTGCTACCTAACGTCCCTCAACCCCTGCCTACACCGACAAGCGCGC  
 CTTTAAAGTGAAGGACACCCACACGGAAGACTCTACAAGGAGAAAGAAGCAAACCTGGGATTGTCTACCA  
 AGTAGAAGAATCGAAAGCACAGGAACGGGGAGTCTCCGTTGGATGCCACCTGTTTTCTAAAGAAAAAG  
 ACACAAGTGACTTGCCCTCCAGGCACTGCCAGAGGGTGTGATCAAGAAGTCTTTAAGCAACTCCAGC  
 AGATATTCAGAAGAAATCCTTTCTGAAAAATCTAGAGAAATCTAAAAGGGAAAGGAAGTTAAGTTGT  
 CCGCTGCATGCCTCTAGAGGAGTATTGTCTTTCTTTCTACAAAGCAAATGCAAGCCAGTCGTTAAGCC  
 CCAGAGATACTGCGCTCCCTAGCAAGCGGGTATCAGCTGCATCTCCCTGTGAGCCGGGAACGTCAGGACT  
 GAGCCCCGGGAGCACCTCCATCCATCGTGGGAAAGGACTGTTCTATTACATAGACAGCCAGTTAAAG  
 GATGAGCAAACGAGTCAAGGCCCTACTGAGTCTCAAGGATGCCAGTTTTCCAGCAGCAACCTGCTGTTT  
 CTGTTTTCCATTCTTTCTAATCTGCAGACTGAACAGCTCTTCTCCACACATCGCACTGTAGACAGCCA  
 CAAGCAGACAGCCACCGCTCTACCAGGGACTAGAAAGTCAACCAGGGACTAGAAAGCAGAGAGCTGGAT  
 TCTGCGGAAGAAAAGCTTCTTTCCACCAGACATTGATCCGCAAGTTTTCTATGAGCTTCCAGAAGAGG  
 TCCAAAAGGAAGTATGGCGGAATGGGAGAGAGCTGGAGCTGCGCGCCCTCGGCGCACAGATA**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_001136090
- Insert Size:** 2025 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:**

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\\_001136090.2](#), [NP\\_001129562.1](#)

**RefSeq Size:** 2937 bp

**RefSeq ORF:** 2025 bp

**Locus ID:** 26447

**UniProt ID:** [Q6R3M4](#)

**Cytogenetics:** 18 E2

**Gene Summary:** Error-prone DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls. Favors Hoogsteen base-pairing in the active site. Inserts the correct base with high-fidelity opposite an adenosine template. Exhibits low fidelity and efficiency opposite a thymidine template, where it will preferentially insert guanosine. May play a role in hypermutation of immunoglobulin genes. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but may not have lyase activity (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 2. This results in an isoform (1) that has a shorter N-terminus, compared to isoform 2.