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# Product datasheet for MC220331

## Poli (NM_001136090) Mouse Untagged Clone

### Product data:

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

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**Fully Sequenced ORF:**

>MC220331 representing NM_001136090
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCTCCAACCCAGAATTAAAGGACAGACCTTTAGGTGTGCAACAGAAATACTTGGTGGTTACCTGCA
ACTATGAAGCCAGGAAACTGGGTGTGAGGAAGCTTATGAATGTGAGAGATGCGAAGGAAAAGTGTCCTCA
GCTGGTCCTCGTGAACGGAGAAGACCTGAGCCGCTACAGAGAGATGTCCTATAAGGTCACAGAATTGTTG
GAGGAATTTAGTCCAGCTGTTGAGAGACTTGGATTTGATGAAAATTTTGTGGATCTAACAGAAATGGTGG
AAAAAAGACTCCAGCAGCTTCCAAGTGAGGAGGTTCCGTCAGTGACTGTGTTCGGCCATGTTTACAATAA
CCAGTCTGTGAACCTACACAACATCATGCATCGGAGACTTGTGGTTGGATCGCAGATTGCAGCAGAGATG
CGGGAAGCCATGTATAATCAGCTCGGGCTCACAGGCTGCGCCGGAGTGGCTCCTAATAAACTCTTGGCAA
AGTTAGTGTCTGGGGTTTTTAAACCAAATCAGCAGACGGTCTTACTACCTGAAAGTTGTCAACATCTCAT
TCACAGTTTGAACCACATAAAGGAAATTCCTGGTATCGGCTATAAAACTGCCAAGCGTCTCGAAGTTCTG
GGAATCAATAGTGTTCATGATCTCCAAACCTTTCCAATCAAAACATTAGAAAAAGAATTAGGAATTGCAA
TTGCTCAGCGTATCCAGCAGCTCAGTTTTGGAGAGGACAAGTCTCCCGTCACACCGTCAGGGCCACCACA
GTCCTTTAGTGAAGAAGATACGTTTAAAAAGTGTTCCTCAGAAGTGGAAGCTAAAGCTAAGATTGAAGAA
TTACTTTCCAGCCTTTTGACCAGAGTATGCCAGGATGGAAGGAAGCCCCATACAGTAAGATTAGTCATCC
GTCGGTACTCTGACAAACACTGTAATCGAGAGAGTCGTCAGTGCCCTATCCCATCCCACGTCATTCAGAA
GTTAGGGACAGGAAATCATGACTCCATGCCTCCCCTGATTGATATCCTTATGAAACTTTTCCGAAATATG
GTGAACGTGAAGATGCCCTTTCACCTGACTCTTATGAGCGTGTGCTTCTGCAACCTGAAAGCCCTGAGCA
GTGCTAAGAAAGGGCCTATGGACTGCTACCTAACGTCCCTCTCAACCCCTGCCTACACCGACAAGCGCGC
CTTTAAAGTGAAGGACACCCACACGGAAGACTCTCACAAGGAGAAAGAAGCAAACTGGGATTGTCTACCA
AGTAGAAGAATCGAAAGCACAGGAACGGGGGAGTCTCCGTTGGATGCCACCTGTTTTCCTAAAGAAAAAG
ACACAAGTGACTTGCCCCTCCAGGCACTGCCAGAGGGTGTTGATCAAGAAGTCTTTAAGCAACTTCCAGC
AGATATTCAAGAAGAAATCCTTTCTGGAAAATCTAGAGAAAATCTAAAAGGGAAAGGAAGTTTAAGTTGT
CCGCTGCATGCCTCTAGAGGAGTATTGTCTTTCTTTTCTACAAAGCAAATGCAAGCCAGTCGCTTAAGCC
CCAGAGATACTGCGCTCCCTAGCAAGCGGGTATCAGCTGCATCTCCCTGTGAGCCGGGAACGTCAGGACT
GAGCCCCGGGAGCACCTCCCATCCATCGTGCGGAAAGGACTGTTCCTATTACATAGACAGCCAGTTAAAG
GATGAGCAAACGAGTCAAGGCCCTACTGAGTCTCAAGGATGCCAGTTTTCCAGCACGAACCCTGCTGTTT
CTGGTTTCCATTCCTTTCCTAATCTGCAGACTGAACAGCTCTTCTCCACACATCGCACTGTAGACAGCCA
CAAGCAGACAGCCACCGCCTCTCACCAGGGACTAGAAAGTCACCAGGGACTAGAAAGCAGAGAGCTGGAT
TCTGCGGAAGAAAAGCTTCCTTTCCCACCAGACATTGATCCGCAAGTTTTCTATGAGCTTCCAGAAGAGG
TCCAAAAGGAACTGATGGCGGAATGGGAGAGAGCTGGAGCTGCGCGCCCCTCGGCGCACAGATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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 immunogobulin 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. |