**Table S1. Polβ and PolβΔ nucleotide sequences**

**Pol beta (Polβ wild type) nucleotide sequence:**

```
ATGAGCAAACGGAAGGCGCCAGGAGACTCTCAACGGGGGAATCACCGACAAGCTCACAGAACTCGCAAA
CTTTGAGAAGAACGTGAGCCAAGCTATCCACAAGTACAATGCTTACAGAAAAGCAGCATCTGTTATAGCAAA
ATACCTAGAGATCTCAGAAAATATGAAGATAAATTTGAACATCACAGCATCGGAGCTGAGCAGCAGGAAT
AGATTGATGAGTTTTTAGCAACTGGAAAATTACGTAAACTGGAAAAGATTCGGCAGGATGATACGAGTTCAT
CCATCAATTTCCTGACTCGAGTTAGTGGCATTGGTCCATCTGCTGCAAGGAAGTTTGTAGATGAAGGAATTAA
AACACTAGAAGATCTCAGAAAAAATGAAGATAAATTGAACCATCATCAGCGAATTGGGCTGAAATATTTTGG
GGACTTTGAAAAAGAATATCCCTCGTGAAAGAGATTTACATGGAAAGAAGACTGTTATATCTGATCGGA
GAGTTGATACCCAAAGATCAGTATTACTGTGGTGTTCTCTATTTCACTGGGAGTGATATTTTCAATAAGAATAT
GAGGGCTCATGCCCTAGAAAAGGGTTTCACAATCAATGAGTACACCATCCGTCCCTTGGGAGTCACTGGAGTT
GCAGGAGAACCCCTGCCAGTGGATAGTGAAAAAGACATCTTTGATTACATCCAGTGGAAATACCGGGAAC
CAAGGACCGGAGCGAATGA
```

**Pol beta (PolβΔ, deleted exon 11-13) nucleotide sequence:**

```
ATGAGCAAACGGAAGGCGCCAGGAGACTCTCAACGGGGGAATCACCGACAAGCTCACAGAACTCGCAAA
CTTTGAGAAGAACGTGAGCCAAGCTATCCACAAGTACAATGCTTACAGAAAAGCAGCATCTGTTATAGCAAA
ATACCTAGAGATCTCAGAAAATATGAAGATAAATTTGAACATCACAGCATCGGAGCTGAGCAGCAGGAAT
AGATTGATGAGTTTTTAGCAACTGGAAAATTACGTAAACTGGAAAAGATTCGGCAGGATGATACGAGTTCAT
CCATCAATTTCCTGACTCGAGTTAGTGGCATTGGTCCATCTGCTGCAAGGAAGTTTGTAGATGAAGGAATTAA
AACACTAGAAGATCTCAGAAAAAATGAAGATAAATTGAACCATCATCAGCGAATTGGGCTGAAATATTTTGG
GGACTTTGAAAAAGAATATCCCTCGTGAAAGAGATTTACATGGAAAGAAGACTGTTATATCTGATCGGA
GAGTTGATACCCAAAGATCAGTATTACTGTGGTGTTCTCTATTTCACTGGGAGTGATATTTTCAATAAGAATAT
GAGGGCTCATGCCCTAGAAAAGGGTTTCACAATCAATGAGTACACCATCCGTCCCTTGGGAGTCACTGGAGTT
GCAGGAGAACCCCTGCCAGTGGATAGTGAAAAAGACATCTTTGATTACATCCAGTGGAAATACCGGGAAC
CAAGGACCGGAGCGAATGA
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