

## Datasheet for ABIN3188229

### DNA dA-Tailing Kit

#### Overview

Quantity:	25 reactions
Application:	DNA Modification (DNA Mod)

#### Product Details

**Purpose:** The DNA dA-Tailing Kit efficiently adds a non-template dAMP (dA) to the 3' end of a blunt-ended DNA fragment.

**Characteristics:** This incorporated 3'-dA prevents concatemer formation and prepares the DNA fragment for subsequent ligation of adaptors or cloning vectors that have complementary 3'-dT overhangs. The Klenow Fragment (3' → 5' Exo-) *in this kit adds the 3'-dA via its DNA polymerase activity. This enzyme lacks 5' → 3' exonuclease activity and has mutations that effectively abolish the inherent 3' → 5' exonuclease activity, thus preventing degradation of this 3'-dA. This kit has been optimized to prepare compatible overhangs for the next step of DNA sample preparation for next generation sequencing. The Klenow Fragment (3' → 5' Exo-) enzyme is also available as a stand-alone enzyme (Cat. No. E038).*

**Unit Definition:** One unit is defined as the amount of Klenow Fragment (3' → 5' Exo-) *that catalyzes the incorporation of 10 nmol of dNTP into acid insoluble material in 30 minutes at 37°C using poly(dA-dT):poly(dA-dT) as a template:primer.*

#### Application Details

**Comment:**

- DNA sample preparation
- dATailing of 1.5 µg of blunt ended DNA

**Restrictions:** For Research Use only

#### Handling

**Buffer:** 25 mM Tris-HCl (pH 7.5), 0.1 mM EDTA, 1 mM DTT, and 50 % (v/v) Glycerol.

## Handling

---

Storage: -20 °C

---

Storage Comment: Store all components at -20°C in a non-frost-free freezer. All components are stable for 1 year from the date of shipping when stored and handled properly.

## Publications

---

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)