## **Materials**

- Oryzias sarasinorum liver tissue
- QIAGEN Blood and Cell Culture DNA Midi Kit
- 50 ml Falcon tubes
- Liquid nitrogen
- RNase A
- 70% ethanol
- Isopropanol
- TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0)
- Agencourt AMPure XP Beads (optional)
- Mortar and pestle
- Incubator or water bath at 50°C
- Centrifuge with capacity for 50 ml Falcon tubes

## Methods

- 1. Snap freeze the sample in liquid nitrogen.
- 2. Grind the frozen sample using a pre-cooled (e.g. stored in the freezer for 30 min) mortar and pestle.
- 3. Lyse up to 100 mg of the ground, frozen sample according to thestandard protocol (steps 3B, 4B, and 5, pages 35-36).
- 4. Purify the lysate (steps 1 to 6, pages 49-52).
- 5. **Critical Step:** To maximize the DNA yield, we recommend eluting the DNA overnight in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

## Results

- Yield: 3.92 μg
- OD 260/280: 1.76
- OD 260/230 0.15



Fragment size (FEMTO pulse):



## Sequencing performance

Libraries were prepared using the Ligation Sequencing Kit.

• Read length profile:

