

Materials

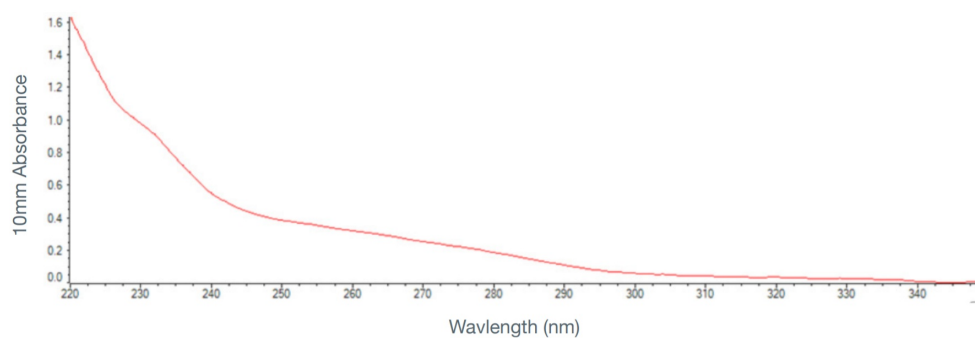
- *Oryzias sarasinorum* brain
- [QIAGEN Blood and Cell Culture DNA Midi Kit](#)
- 50 ml Falcon tubes
- Liquid nitrogen
- RNase A
- 70% ethanol
- Isopropanol
- TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0)
- Agencourt AMPure XP Beads (optional)
- Mortar and pestle
- Incubator or water bath at 50°C
- Centrifuge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

Method

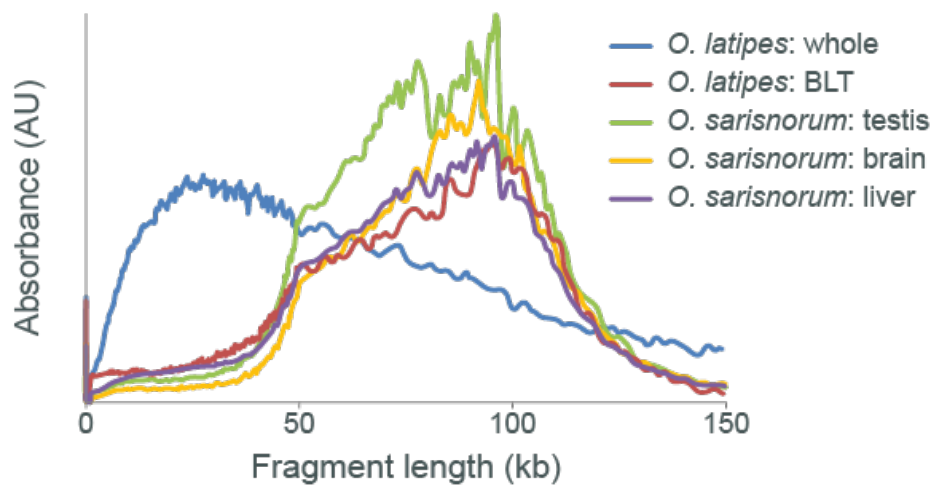
1. Snap freeze the sample in liquid nitrogen.
2. Grind the frozen sample using a pre-cooled (e.g. stored in the freezer for 30 min) mortar and pestle.
3. Lyse up to 100 mg of the ground, frozen sample according to the [standard protocol](#) (steps 3B, 4B, and 5, pages 35-36).
4. Purify the lysate (steps 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:** 13.7 µg
- **OD 260/280:** 1.76
- **OD 260/230:** 0.30



- **Fragment size (FEMTO pulse):**



Sequencing performance

Libraries were prepared using the Ligation Sequencing Kit.

- Read length profile:

