



Zebrafish Embryonic Genotyper (ZEG)

Simple. Rapid. Gentle.

- RAPID cell extraction (96 embryos in an 1 hour)
- QUICKLY sample 20 fish at a time WITHOUT fin clipping
- GENTLE non-destructive (live) sampling of embryos that can be raised to adulthood
- AUTOMATION standardizes sampling and reduces variability
- EASY-TO-USE Minimal training required to get up and running
- UNIQUE capabilities make out-of-reach experiments possible
- SAVE time, facility, & maintenance fees

Specifications

- **Components:** 1 Base Unit and disposable chips
- **Chip extraction throughput:** 24 embryos in 7.5 min
- **Size:** ~6 x ~6 in
- **Extraction Speed:** from 96 embryos (~ 72 hpf) within an hour
- **Genotyping sensitivity:** > 80 %
- **Embryo survivability:** > 90 %
- **Applications:** Extracted genetic material can be identified using gel electrophoresis, HRMA (high resolution melting analysis), and Sequencing
- **Viability:** No observed effects on embryos' morphology, or behavior at 7 dpf (after processed by ZEG at 72 hpf)
- **Lifespan:** The ZEG non-destructive & safe. Embryos can easily be raised to adulthood.