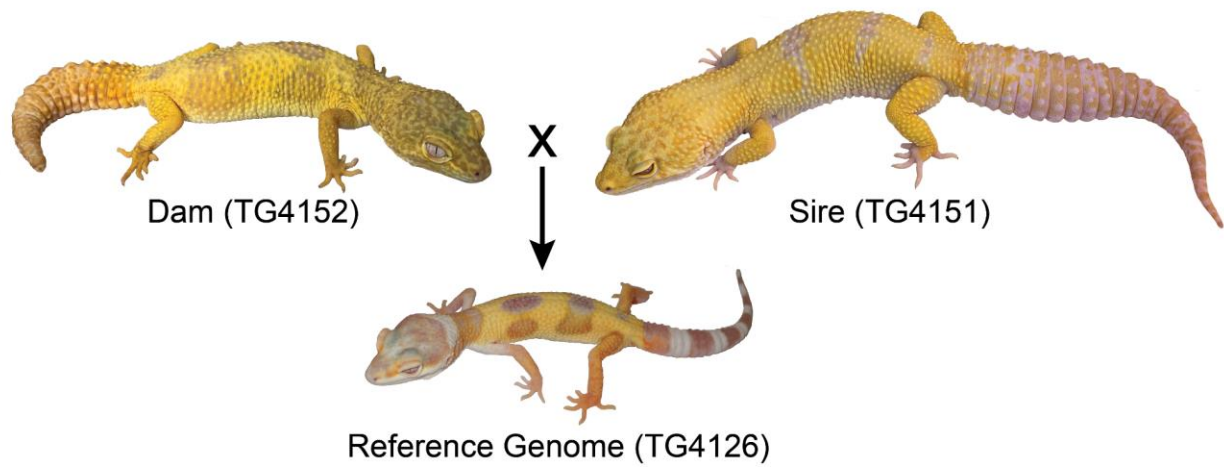


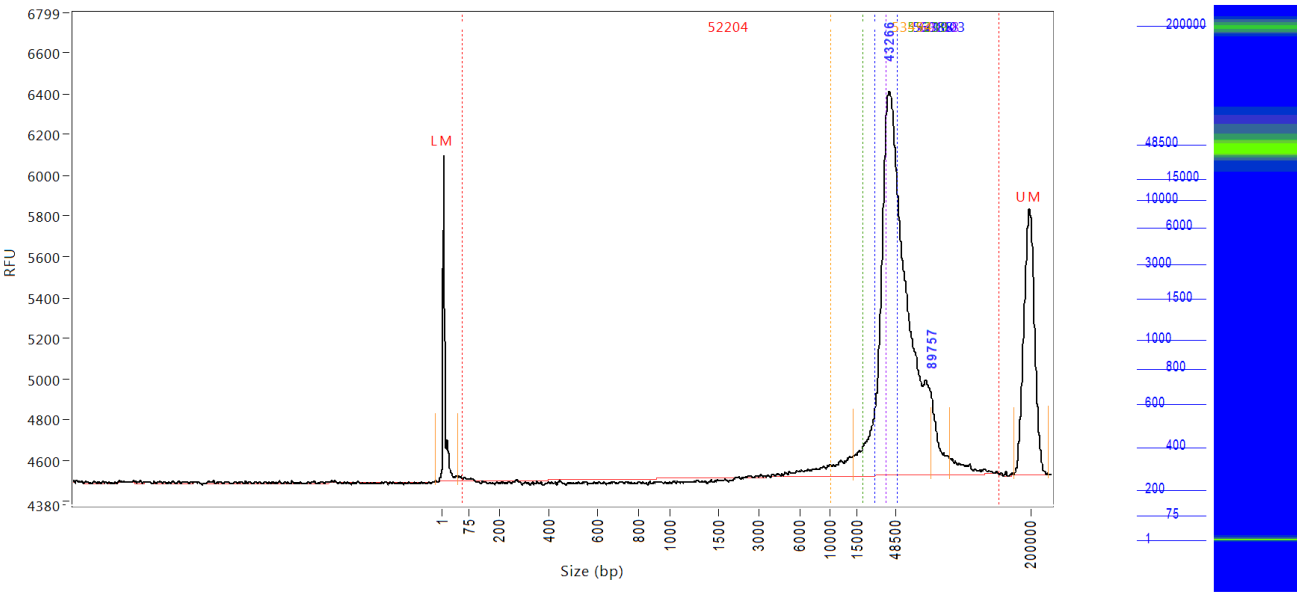
## Supplemental Information

**Supplemental Figure 1:** Crossing scheme to generate the reference genome animal for *Eublepharis macularius*, TG4126.



**Supplemental Figure 2:** High-molecular weight DNA extraction Bioanalyzer results.

Data File: 2020 12 10 18H 31M.raw  
Sample: Ylenia eublepharis rec'd gDNA (dil 1:40)  
Well Location: E7



| Peak | Size (bp)   | Conc. (ng/uL) | From (bp) | To (bp) | Avg. Size (bp) | CV%    | RFU  | Corr. Peak Area |
|------|-------------|---------------|-----------|---------|----------------|--------|------|-----------------|
| 1    | 1 (LM)      | 0.0108        | 0         | 41      | 4              | 200.86 | 1599 | 10.391          |
| 2    | 43266       | 0.8602        | 14294     | 89757   | 50972          | 30.57  | 1884 | 69.207          |
| 3    | 89757       | 0.0433        | 89757     | 110724  | 97126          | 6.20   | 390  | 3.482           |
| 4    | 200000 (UM) | 0.0177        | 183092    | 221516  | 199733         | 2.83   | 1303 | 17.094          |

TIC: 0.9035 ng/uL  
TIM: 0.0285 nmole/L  
Total Conc.: 0.9735 ng/uL

|                |                       |              |             |                |                      |           |
|----------------|-----------------------|--------------|-------------|----------------|----------------------|-----------|
| Smear Analysis | 50 bp to 165000 bp    | 0.9712 ng/ul | 99.8 %Total | 0.0306 nmole/L | 52204 Avg. Size (bp) | 43.28 %CV |
|                | 10000 bp to 165000 bp | 0.9445 ng/ul | 97.0 %Total | 0.0291 nmole/L | 53494 Avg. Size (bp) | 40.28 %CV |
|                | 20000 bp to 165000 bp | 0.9047 ng/ul | 92.9 %Total | 0.0270 nmole/L | 55239 Avg. Size (bp) | 36.78 %CV |
|                | 30000 bp to 165000 bp | 0.8719 ng/ul | 89.6 %Total | 0.0255 nmole/L | 56388 Avg. Size (bp) | 35.17 %CV |
|                | 40000 bp to 165000 bp | 0.7389 ng/ul | 75.9 %Total | 0.0202 nmole/L | 60158 Avg. Size (bp) | 32.27 %CV |
|                | 50000 bp to 165000 bp | 0.4377 ng/ul | 45.0 %Total | 0.0101 nmole/L | 71003 Avg. Size (bp) | 26.50 %CV |

Sample Peak Width (sec): 10    Sample Min Peak Height: 50    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3  
Sample Filter: Binomial    # of Pts for Filter: 3    Sample Start Region (min): 0    Sample End Region (min): 55  
Manual Baseline Start (min): 12    Manual Baseline End (min): 52  
Marker Peak Width (sec): 5    Marker Min Peak Height: 500    Marker Baseline V to V?: N    Marker Baseline V to V pts: 3  
Lower Marker Selection: First Peak > 500 RFU    Upper Marker Selection: Last Peak > 500 RFU  
Ladder Size (bp): 1, 75, 200, 400, 600, 800, 1000, 1500, 3000, 6000, 10000, 15000, 48500, 200000  
Quantification Using: Ladder    Final Concentration (ng/uL): 0.1250    Dilution Factor: 12.0  
Min. RFU for Data Processing: 3