

Supplementary Table 3. Ultraconserved elements statistics.

| Order | Family | Species | UCE Loci Collected | Total Base Pairs | Mean Contig Length | Median Contig Length | Minimum Contig Length | Maximum Contig Length | 95% Confidence Interval | Contigs over 1000 Base Pairs |
|-----------------|-----------------|---------------------------------------|--------------------|------------------|--------------------|----------------------|-----------------------|-----------------------|-------------------------|------------------------------|
| Argentiniformes | Argentinidae | <i>Argentina silus</i> | 416 | 477374 | 1147.53 | 1212.5 | 215 | 2293 | 15.28 | 306 |
| Osmeriformes | Osmeridae | <i>Osmerus mordax</i> | 418 | 591995 | 1416.26 | 1448.5 | 235 | 2929 | 18.34 | 362 |
| Stomiiformes | Gonostomatidae | <i>Cyclothone microdon</i> | 398 | 420386 | 1056.25 | 1085.0 | 225 | 2306 | 14.44 | 244 |
| Stomiiformes | Gonostomatidae | <i>Diplophos rebainsi</i> | 422 | 386389 | 915.61 | 954.0 | 218 | 1850 | 13.51 | 188 |
| Stomiiformes | Gonostomatidae | <i>Diplophos taenia</i> | 412 | 494861 | 1201.12 | 1227.5 | 227 | 2567 | 19.68 | 288 |
| Stomiiformes | Gonostomatidae | <i>Gonostoma atlanticum</i> | 423 | 447767 | 1058.55 | 1102.0 | 209 | 1766 | 16.81 | 248 |
| Stomiiformes | Gonostomatidae | <i>Margrethia obtusirostra</i> | 421 | 470010 | 1116.41 | 1175.0 | 226 | 2377 | 15.94 | 279 |
| Stomiiformes | Gonostomatidae | <i>Sigmops elongatus</i> | 439 | 422307 | 961.97 | 1007.0 | 207 | 1566 | 12.08 | 228 |
| Stomiiformes | Gonostomatidae | <i>Sigmops longipinnis</i> | 379 | 350194 | 923.99 | 972.0 | 105 | 2191 | 14.82 | 169 |
| Stomiiformes | Gonostomatidae | <i>Zaphotias pedaliotus</i> | 417 | 432402 | 1036.94 | 1090.0 | 208 | 2044 | 16.27 | 241 |
| Stomiiformes | Sternoptychidae | <i>Maurolucus muelleri</i> | 431 | 331035 | 768.06 | 779.0 | 183 | 2122 | 11.19 | 48 |
| Stomiiformes | Sternoptychidae | <i>Sternoptyx pseudobscura</i> | 425 | 359213 | 845.21 | 873.0 | 228 | 1628 | 11.83 | 117 |
| Stomiiformes | Sternoptychidae | <i>Valenciennellus tripunctulatus</i> | 417 | 376905 | 903.85 | 939.0 | 198 | 1945 | 13.31 | 161 |
| Stomiiformes | Stomiidae | <i>Chauliodus macouni</i> | 384 | 322846 | 840.74 | 848.5 | 208 | 1816 | 16.46 | 139 |
| Stomiiformes | Stomiidae | <i>Neonesthes capensis</i> | 331 | 343413 | 1037.50 | 1058.0 | 117 | 2072 | 17.86 | 189 |
| Stomiiformes | Stomiidae | <i>Phosichthys argenteus</i> | 437 | 334216 | 764.80 | 780.0 | 209 | 1382 | 10.16 | 54 |
| Stomiiformes | Stomiidae | <i>Polymetme thaeocoryla</i> | 426 | 441833 | 1037.17 | 1063.5 | 229 | 2713 | 12.23 | 255 |
| Stomiiformes | Stomiidae | <i>Triplophos hemingi</i> | 423 | 542455 | 1282.40 | 1325.0 | 245 | 3019 | 17.57 | 329 |
| Stomiiformes | Stomiidae | <i>Vinciguerrria nimbaria</i> | 395 | 430875 | 1090.82 | 1106.0 | 219 | 2386 | 15.14 | 272 |
| Stomiiformes | Stomiidae | <i>Woodsia meyerwardeni</i> | 350 | 135241 | 386.40 | 379.0 | 163 | 690 | 6.10 | 0 |

[Smith et al. NOAA Professional Paper NMFS 24:167-184](#)