

Supplementary Table 1. Complete raw measurement data of muscle mass. Units of figures in the table are in milligrams; except for SVL (millimeters).

| species | sex | SVL | pecP | cobral | cobrab | subS | delS | delC | supco | ld | subC | pecS | bic | bra | tri | fcr | fou | ecr | ecu | fdl | edl | pife | add | illem | pifi | cfl | pit | ifib | pt | fte | flip | ftil | ftim | it | amb | fetex | fetin | ta | perB | edl_h | gas | perL | fdc_h |
|-------------|--------|------|-------|--------|--------|------|------|------|-------|-------|------|-------|------|-------|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|------|-------|
| A. bartschi | male | 69.8 | 20.19 | 3.46 | 4.14 | 3.93 | 4.63 | 6.45 | 3.5 | 15.68 | 2.74 | 12.98 | 6.85 | 11.99 | 19.38 | 3.48 | 3.19 | 3.59 | 2 | 4.85 | 2.85 | 15.71 | 15.4 | 4.92 | 22.49 | 63.74 | 27.34 | 15.78 | 6.33 | 11.55 | 9.58 | 3.82 | 19.13 | 14.15 | 23.17 | 42.92 | 24.08 | 5.05 | 4.79 | 5.85 | 23.53 | 4.41 | 10.08 |
| A. bartschi | male | 68.8 | 21.75 | 3.29 | 3.76 | 4.65 | 3.62 | 6.79 | 3.5 | 16.67 | 2.74 | 14.57 | 6.44 | 9.69 | 18.9 | 2.75 | 1.63 | 3.51 | 1.9 | 3.88 | 2.7 | 15.94 | 15.43 | 5.3 | 19.01 | 55.99 | 22.12 | 13.25 | 6.46 | 10.38 | 7.46 | 6.96 | 21.01 | 14.2 | 20.58 | 36.9 | 20.99 | 3.5 | 4.71 | 4.84 | 20.56 | 4.51 | 8.06 |
| A. bartschi | male | 71.9 | 26.75 | 6.38 | 5.25 | 7.74 | 6.12 | 9.47 | 4.32 | 25.06 | 4.26 | 19.37 | 9.64 | 16.83 | 28.67 | 4.12 | 3.8 | 4.03 | 2.94 | 6.38 | 5.03 | 20.85 | 26.27 | 7.61 | 39.85 | 99.41 | 39.68 | 24.44 | 9.97 | 14.74 | 14.18 | 10.36 | 25.14 | 24.43 | 31.19 | 65.69 | 34.53 | 5.95 | 6.87 | 9.28 | 30.48 | 6.57 | 12.1 |
| A. bartschi | female | 59.9 | 8.08 | 2.35 | 1.77 | 1.43 | 2.11 | 3.3 | 1.67 | 8.64 | 1.74 | 6.71 | 2.97 | 5.65 | 9.07 | 1.54 | 1.38 | 1.99 | 0.89 | 2.27 | 0.82 | 9.74 | 5.9 | 1.7 | 12.02 | 34.02 | 12.46 | 7.24 | 3.9 | 3.62 | 9.98 | 2.23 | 11.77 | 7.4 | 12.47 | 23.42 | 11.85 | 1.88 | 2.47 | 2.75 | 11.9 | 2.19 | 6.37 |
| A. bartschi | female | 54.5 | 7.22 | 1.15 | 1.32 | 1.36 | 1.44 | 2.44 | 1.21 | 5.95 | 1.02 | 4.09 | 2.31 | 3.84 | 7.31 | 1.02 | 0.51 | 1.26 | 0.73 | 2.06 | 1.03 | 6.24 | 5.47 | 2.61 | 8.93 | 26.33 | 10.26 | 4.94 | 2.85 | 4.75 | 3.24 | 4.87 | 8.31 | 6.72 | 10.29 | 18.94 | 10.51 | 1.69 | 1.7 | 1.96 | 9.04 | 1.75 | 3.53 |
| A. bartschi | female | 60.2 | 13.18 | 2.8 | 2.28 | 2.66 | 2.97 | 4.1 | 2.55 | 11.86 | 1.68 | 7.9 | 4.33 | 6.14 | 10.37 | 1.61 | 1.6 | 1.16 | 0.96 | 2.22 | 2.45 | 12.12 | 10.45 | 3.48 | 14 | 38.95 | 14.46 | 9.34 | 4.33 | 6.61 | 4.32 | 2.93 | 12.63 | 9.08 | 13.26 | 27.93 | 17.09 | 3 | 2.92 | 3.43 | 13.54 | 2.81 | 4.01 |
| A. bartschi | female | 54.8 | 6.11 | 1.82 | 1.2 | 1.42 | 1.47 | 2.5 | 1.49 | 5.23 | 0.77 | 5.36 | 2.43 | 3.33 | 7.48 | 0.96 | 0.69 | 0.7 | 0.64 | 1.26 | 1.28 | 6.28 | 2.35 | 2.44 | 10.71 | 25.75 | 8.68 | 4.11 | 2.29 | 1.64 | 4.62 | 4.13 | 9.24 | 5.82 | 9.97 | 17.69 | 9.87 | 1.91 | 1.86 | 1.49 | 7.97 | 1.62 | 2.29 |
| A. porcatu | male | 76.7 | 22.65 | 8.64 | 4.26 | 6.81 | 3.9 | 5.75 | 3.83 | 19.11 | 3.88 | 25.11 | 9.52 | 15.7 | 31.8 | 3.39 | 2.65 | 3.04 | 3.94 | 5.09 | 2.22 | 12.05 | 15.46 | 4.81 | 25.29 | 88.5 | 27.58 | 18.2 | 8.93 | 12.64 | 12.7 | 4.2 | 11.94 | 14.12 | 18.16 | 13.83 | 6.57 | 7.1 | 3.86 | 5.28 | 17.66 | 3.25 | 9.97 |
| A. porcatu | male | 60.9 | 13.23 | 2.62 | 0.89 | 2.34 | 2.73 | 4.66 | 1.79 | 14.38 | 1.51 | 6.8 | 4.46 | 5.36 | 11.56 | 1.2 | 0.89 | 1.24 | 1.29 | 1.84 | 1.27 | 9.07 | 5.36 | 3.43 | 12.19 | 43.77 | 11.44 | 6.7 | 3.27 | 5.38 | 5.09 | 1.78 | 5.1 | 7.78 | 8.09 | 6.52 | 2.77 | 2.06 | 1.89 | 2.6 | 6.06 | 0.99 | 4.58 |
| A. porcatu | male | 63 | 11.49 | 2.82 | 1.32 | 2.68 | 2.69 | 4.9 | 1.74 | 13.59 | 2.09 | 12.95 | 3.8 | 5.74 | 12.18 | 1.35 | 1.66 | 1.58 | 0.89 | 1.9 | 1.31 | 8.69 | 5.93 | 2.6 | 17.78 | 48.16 | 13.7 | 6.46 | 3.68 | 6.13 | 5.58 | 2.37 | 3.82 | 8.05 | 9.2 | 6.39 | 2.76 | 2.59 | 1.9 | 3.04 | 7.38 | 1.42 | 5.02 |
| A. porcatu | male | 70.2 | 18.25 | 4.32 | 3.42 | 4.99 | 3.93 | 3.2 | 3.76 | 23.61 | 1.8 | 26.42 | 6.08 | 9.24 | 21 | 2.62 | 2.37 | 3.73 | 1.55 | 3.72 | 0.98 | 14.15 | 10.26 | 4.66 | 19.03 | 70.16 | 20.18 | 11.32 | 5.44 | 9.11 | 8.38 | 3.19 | 7.15 | 12.67 | 12.31 | 9.53 | 3.93 | 4.23 | 3.29 | 4.03 | 8.96 | 2.52 | 10.25 |
| A. porcatu | female | 48.8 | 3.18 | 0.84 | 0.51 | 1.04 | 0.83 | 1.33 | 0.49 | 3.74 | 0.74 | 3.33 | 1.06 | 1.16 | 3.03 | 0.63 | 0.49 | 0.32 | 0.17 | 0.26 | 0.41 | 3.31 | 1.66 | 0.7 | 3.35 | 16.72 | 3.19 | 2.04 | 0.97 | 1.64 | 1.53 | 0.72 | 1.91 | 2.16 | 2.81 | 2.12 | 0.98 | 0.72 | 0.75 | 0.9 | 2.71 | 0.57 | 1.38 |
| A. porcatu | female | 57 | 8.78 | 1.76 | 1.09 | 1.93 | 1.15 | 2.72 | 0.83 | 8.68 | 1.25 | 6.63 | 2.42 | 3.5 | 7.3 | 0.86 | 0.81 | 0.89 | 0.77 | 1.27 | 0.61 | 6.14 | 4.18 | 1.39 | 9.01 | 31.58 | 8.55 | 4.45 | 2.11 | 3.77 | 2.74 | 1.62 | 2.93 | 5.07 | 4.82 | 4.16 | 2.22 | 1.96 | 1.29 | 1.57 | 5.74 | 1.14 | 3.58 |
| A. porcatu | female | 49.3 | 4.29 | 1.27 | 0.81 | 1.22 | 0.98 | 1.64 | 0.6 | 4.82 | 0.71 | 2.99 | 1.34 | 1.68 | 4.23 | 0.61 | 0.76 | 0.31 | 0.43 | 0.8 | 0.65 | 3.12 | 2.13 | 1 | 4.59 | 17.87 | 3.88 | 2.3 | 1.23 | 2.03 | 1.56 | 0.9 | 1.91 | 2.77 | 3.17 | 2.45 | 1.29 | 1.23 | 0.84 | 0.89 | 2.79 | 0.39 | 1.73 |
| A. sagrei | male | 54.2 | 19.11 | 2.96 | 1.2 | 5.71 | 4.21 | 3.14 | 3.29 | 11.3 | 3.21 | 8.95 | 4.88 | 5.91 | 13.67 | 2.25 | 2.11 | 2.35 | 1.28 | 2.71 | 2.67 | 11.58 | 9.31 | 3.63 | 14.47 | 42.59 | 11.81 | 7.16 | 4.65 | 7.41 | 6.08 | 4.37 | 11.98 | 11.07 | 11.96 | 13.55 | 5.23 | 3.34 | 3.34 | 3.62 | 11.53 | 4.95 | 5.71 |
| A. sagrei | male | 51.1 | 10.8 | 2.11 | 1.26 | 4.2 | 2.15 | 2.36 | 2.12 | 9.33 | 2 | 4.77 | 4.33 | 3.7 | 10.63 | 1.43 | 1.22 | 1.69 | 1.04 | 2.11 | 1.46 | 8.95 | 5.81 | 2.01 | 9.61 | 29.53 | 7.3 | 4.95 | 2.94 | 4.67 | 3.83 | 3.07 | 9.2 | 8.67 | 8.43 | 7.99 | 3.67 | 2.36 | 2.89 | 2.56 | 7.57 | 3.6 | 3.48 |
| A. sagrei | male | 57.2 | 20.13 | 3.81 | 0.66 | 4.22 | 4.2 | 4.41 | 2.09 | 14.7 | 3.89 | 9.04 | 6.15 | 6.84 | 15.76 | 2.21 | 2.39 | 2.23 | 0.69 | 3.8 | 2.83 | 13.44 | 12.49 | 4.6 | 19 | 55.54 | 16.3 | 7.58 | 5.65 | 7.68 | 6.49 | 3.59 | 15.04 | 12.54 | 14.88 | 12.68 | 5.05 | 4.15 | 3.53 | 4.54 | 12.99 | 4.72 | 7.65 |
| A. sagrei | male | 61 | 7.24 | 2.31 | 1.36 | 2.61 | 2.79 | 1.79 | 2.33 | 7.42 | 2.18 | 9.77 | 3.18 | 3.06 | 10.01 | 1.29 | 2.26 | 1.68 | 0.95 | 2.31 | 1.65 | 9.8 | 5.58 | 2.32 | 13.26 | 33.17 | 9.87 | 4.37 | 3.79 | 5.38 | 3.73 | 3.98 | 8.33 | 7.07 | 10.66 | 7.95 | 3.68 | 1.96 | 2.18 | 3.45 | 10.95 | 3.47 | 4.19 |
| A. sagrei | male | 53.8 | 7.15 | 1.86 | 1 | 0.77 | 2.09 | 1.78 | 1.15 | 7.26 | 1.87 | 8.34 | 3.01 | 3.05 | 9.88 | 1.34 | 1.72 | 1.63 | 0.9 | 1.54 | 1.49 | 6.01 | 6.15 | 2.17 | 8.87 | 26.85 | 9.15 | 4.15 | 3.32 | 3.9 | 2.82 | 2.58 | 5.93 | 7.1 | 9.46 | 8.12 | 2.88 | 2.37 | 1.87 | 2.63 | 10.17 | 3.46 | 4.46 |
| A. sagrei | female | 39 | 2.58 | 0.38 | 0.54 | 1.15 | 1.17 | 0.74 | 0.41 | 2.09 | 0.54 | 2.04 | 0.93 | 1.2 | 3.14 | 0.55 | 0.51 | 0.55 | 0.4 | 0.29 | 0.3 | 2.38 | 1.82 | 0.64 | 2.96 | 8.86 | 2.81 | 1.21 | 0.97 | 1.31 | 0.87 | 2.09 | 1.07 | 2.74 | 3.42 | 3.3 | 1.2 | 0.41 | 0.7 | 0.79 | 2.74 | 0.93 | 0.9 |
| A. sagrei | female | 41.5 | 2.56 | 0.8 | 0.48 | 0.82 | 1.03 | 0.81 | 0.45 | 2.52 | 0.56 | 2.08 | 0.9 | 1.24 | 3.36 | 0.45 | 0.38 | 0.71 | 0.35 | 0.55 | 0.24 | 2.32 | 1.79 | 0.71 | 3.79 | 10.08 | 3.06 | 1.26 | 1.14 | 1.53 | 0.8 | 1.58 | 1.92 | 3 | 3.68 | 3.58 | 1.28 | 0.68 | 1.05 | 0.88 | 2.74 | 1.19 | 1 |
| A. sagrei | female | 43.1 | 3.12 | 0.6 | 0.39 | 0.85 | 1.05 | 0.9 | 0.5 | 2.91 | 0.61 | 2.29 | 1.43 | 0.8 | 3.76 | 0.38 | 0.34 | 0.61 | 0.38 | 0.52 | 0.63 | 3.42 | 2.23 | 0.65 | 3.27 | 9.67 | 3.04 | 2.09 | 1.02 | 1.87 | 1.1 | 0.84 | 2.84 | 3.05 | 3.37 | 3.77 | 1.49 | 0.85 | 0.93 | 1.09 | 2.57 | 1.46 | 1.7 |

Supplementary Table 2. Complete raw measurement data of length of moment arm. Units of all figures in the table are in millimeters.

| species | sex | SVL | pecP | cobral | cobrab | subS | delS | delC | supco | ld | subC | pecS | bic | bra | tri | fcr | fou | ecr | ecu | fdl | edl | pife | add | illem | pifi | cfl | pit | ifib | pt | fte | flip | ftil | ftim | it | amb | fetex | fetin | ta | perB | edl_h | gas | perL | fdc_h | humerus | radius | manus | femur | tibia | pes |
|-------------|--------|------|------|--------|--------|------|------|------|-------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-----|-----|------|-----|-----|------|------|------|------|------|-------|-------|------|------|-------|------|------|-------|---------|--------|-------|-------|-------|-----|
| A. bartschi | male | 69.8 | 2.3 | 1.4 | 2.1 | 0.5 | 1.8 | 2 | 1 | 3.3 | 0.5 | 2.3 | 2.3 | 2.3 | 0.6 | 1 | 1.2 | 1.2 | 1 | 0.25 | 0.25 | 1.5 | 2.9 | 1.8 | 3.2 | 3.6 | 3.6 | 5.4 | 1.2 | 1.7 | 3.6 | 1.25 | 1.6 | 1.8 | 1.8 | 1.8 | 1.8 | 1.65 | 1.2 | 1.5 | 1.3 | 1.1 | 0.75 | 13.6 | 10.5 | 12.6 | 21.3 | 18.1 | 26 |
| A. bartschi | male | 68.8 | 2.1 | 1.3 | 1.2 | 0.55 | 0.7 | 1.9 | 1.4 | 3.1 | 0.55 | 2.1 | 2.25 | 2.25 | 0.95 | 1 | 1.35 | 1.35 | 1 | 0.35 | 0.35 | 1.55 | 3.9 | 2.2 | 4.1 | 3.1 | 3.3 | 3.6 | 1.4 | 1.8 | 3.3 | 1.4 | 1.7 | 1.75 | 1.75 | 1.75 | 1.25 | 1.8 | 1.5 | 1.4 | 1.9 | 0.85 | 13.1 | 10.2 | 11.6 | 18.7 | 16.6 | 23.6 | |
| A. bartschi | male | 71.9 | 1.7 | 1.6 | 1 | 0.55 | 1.5 | 1.6 | 1.4 | 3.1 | 0.55 | 1.7 | 2.55 | 2.55 | 0.95 | 1.05 | 1.25 | 1.25 | 1.05 | 0.25 | 0.25 | 1.55 | 3.35 | 1.8 | 3.3 | 3.9 | 4.4 | 5.4 | 1.6 | 2.5 | 4.4 | 1.2 | 1.6 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.4 | 1.65 | 1.35 | 1.5 | 0.85 | 14.1 | 10.7 | 12.4 | 21.35 | 17.9 | 26 |
| A. bartschi | female | 59.9 | 1.85 | 0.75 | 1.2 | 0.6 | 1.15 | 0.4 | 1.05 | 2.1 | 0.65 | 1.85 | 1.3 | 1.3 | 0.55 | 0.7 | 0.9 | 0.7 | 0.15 | 0.15 | 1.1 | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |