**Genetic mapping of head size related traits in common carp (*Cyprinus carpio*)**

Lin Chen1,2, Wenzhu Peng1, Shengnan Kong1,2, Fei Pu1, Baohua Chen1, Zhixiong Zhou1, Jianxin Feng3, Xuejun Li2, Peng Xu1,4,5\*

\*Correspondence:

Peng Xu

e-mail: xupeng77@xmu.edu.cn. Tel.:86-592-2880812(O)

SUPPLEMENTARY TABLES

**S1 Table Phenotypic data of Yellow River carp in this study.** Min, minimum; Max, maximum; SD, standard deviation.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Programs | Traits | N | Min | Max | Mean | SD |
| GWAS | BW (g) | 433 | 815 | 1895 | 1356.28 | 211.96 |
|  | BL (cm) | 433 | 30.70 | 46.90 | 37.81 | 2.21 |
|  | HL (cm) | 433 | 6.14 | 10.31 | 7.87 | 0.72 |
|  | HBR | 433 | 0.19 | 0.27 | 0.23 | 0.01 |
|  | ED (cm) | 433 | 0.77 | 1.64 | 1.12 | 0.14 |
|  | EC (cm) | 433 | 2.53 | 4.82 | 3.88 | 0.34 |
| QTL | BW (g) | 103 | 820 | 1840 | 1361.84 | 184.16 |
|  | BL (cm) | 103 | 32.53 | 46.54 | 38.02 | 2.38 |
|  | HL (cm) | 103 | 6.14 | 10.31 | 8.31 | 0.76 |
|  | HBR | 103 | 0.21 | 0.27 | 0.24 | 0.01 |
|  | ED (cm) | 103 | 0.87 | 1.71 | 1.20 | 0.14 |
|  | EC (cm) | 103 | 3.14 | 5.24 | 3.96 | 0.36 |