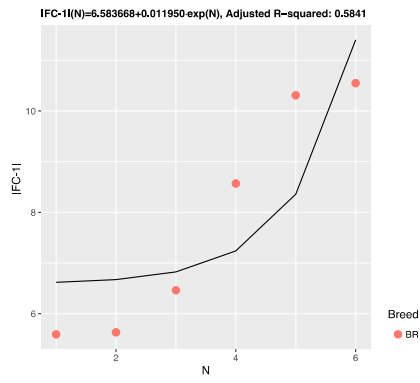
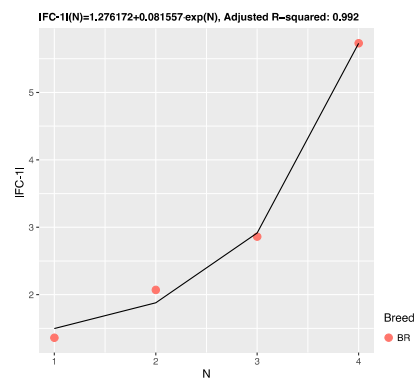


Figure S1. Log-log plots of $|FC - 1|(N)$ dependencies for gene expression data (Table 2) in the breeds by muscle type. **(A)** Breast muscles; **(B)** thigh muscles.

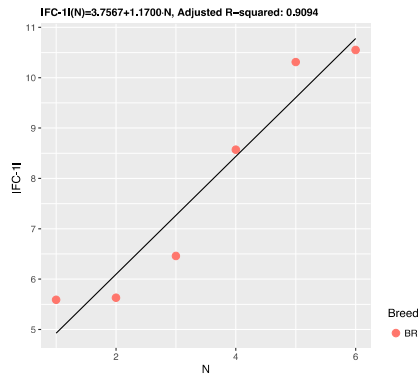
A1a



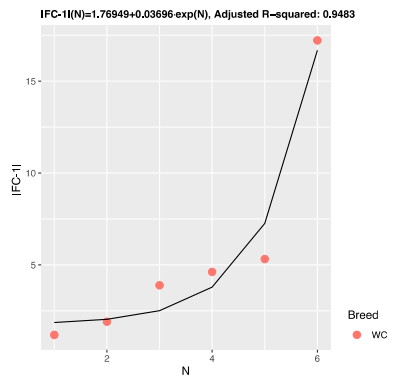
A2



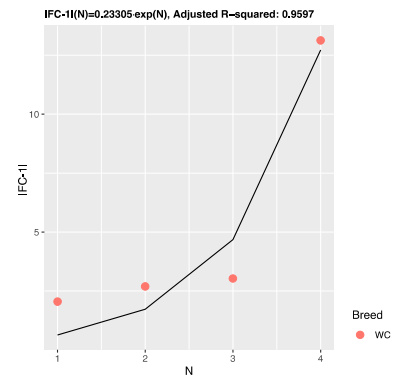
A1b



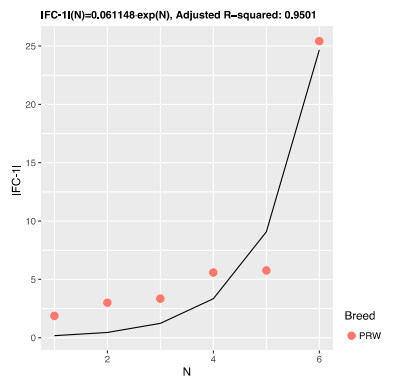
B1



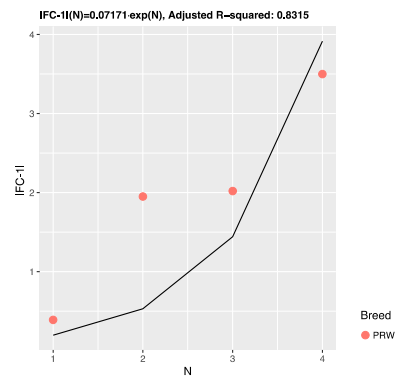
B2



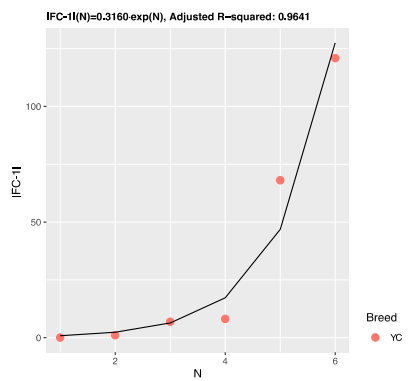
C1



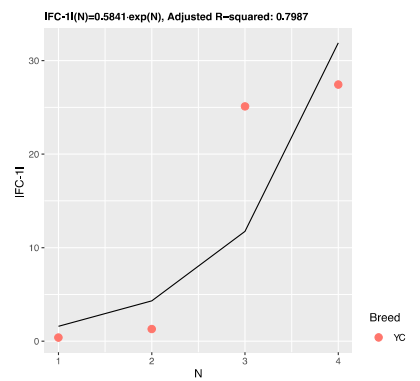
C2



D1



D2



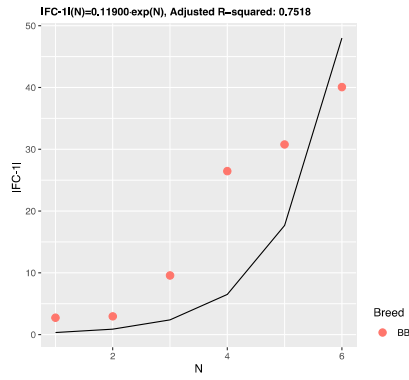
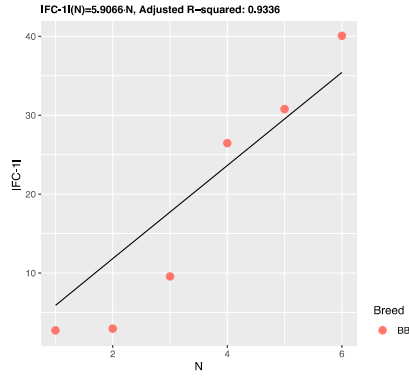
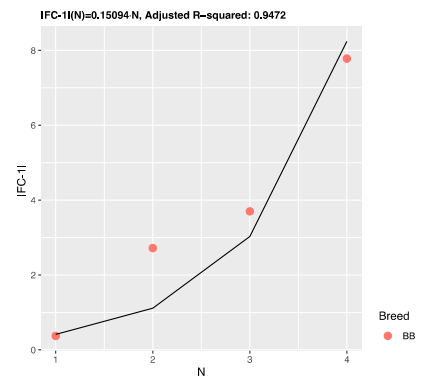
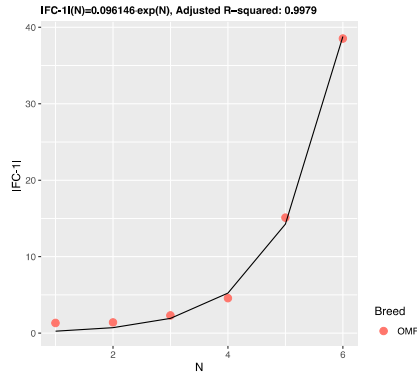
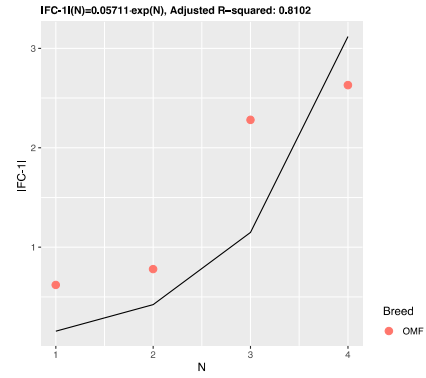
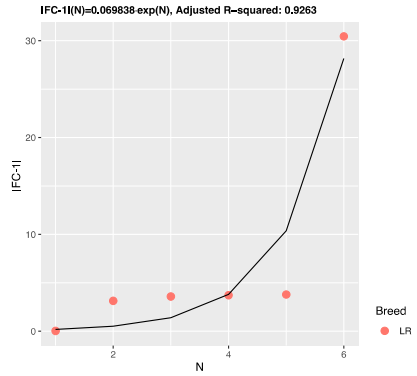
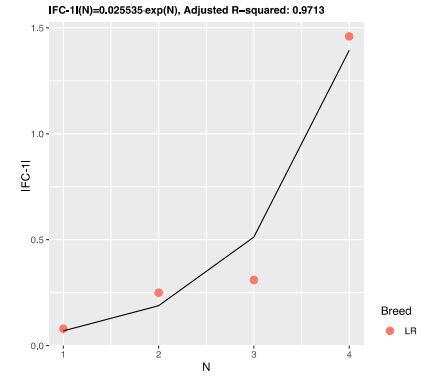
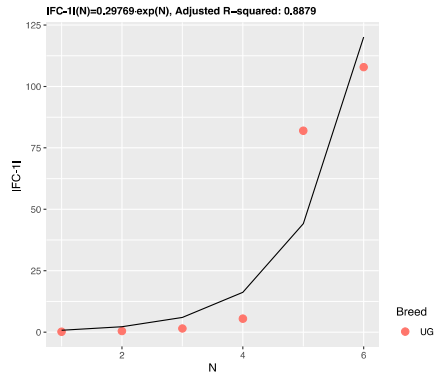
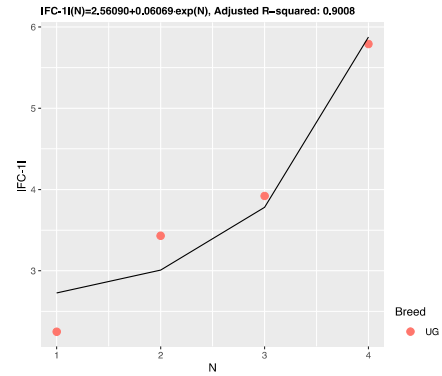
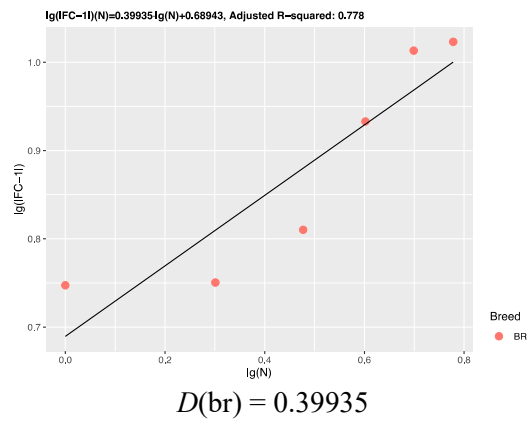
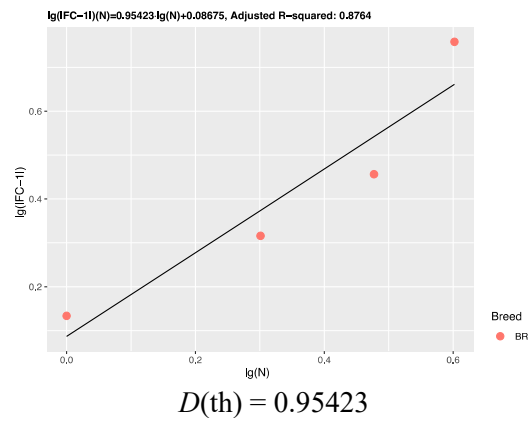
E1a**E1b****E2****F1****F2****G1****G2****H1****H2**

Figure S2. Special cases of $|FC - 1|(N)$ regressions for different breeds by muscle groups. (A1–H1) Breast muscles; (A2–H2) thigh muscles. For the breeds BR (A1b) and BB (E1b), linear models have also been tested.

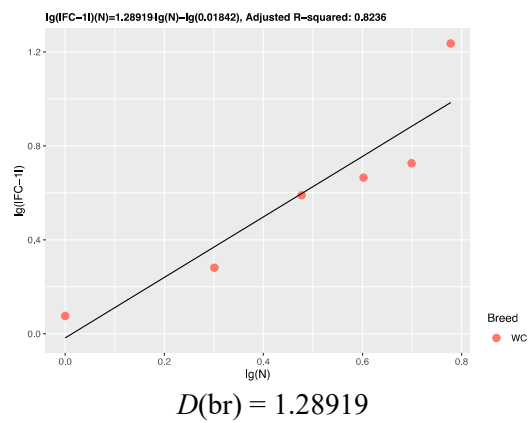
A1



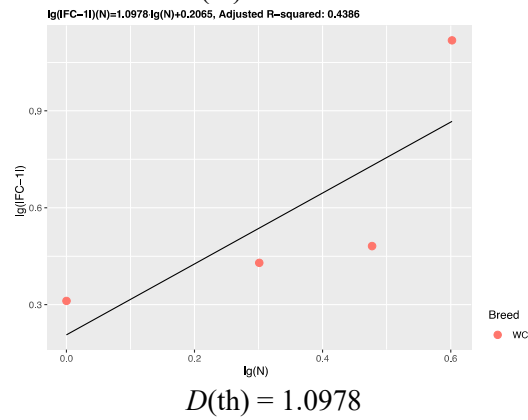
A2



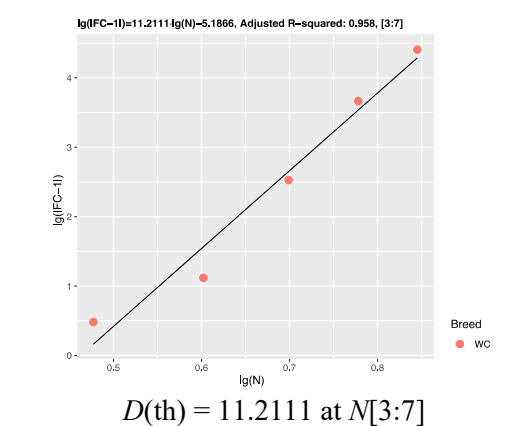
B1



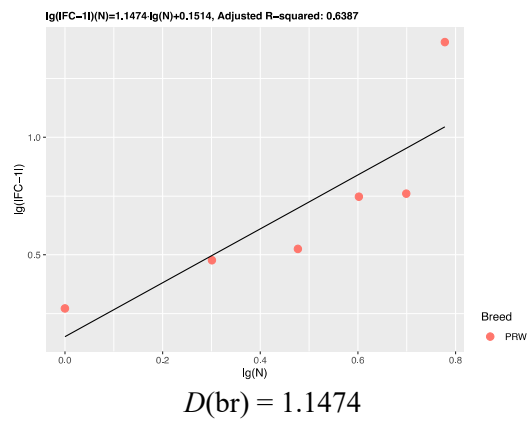
B2a



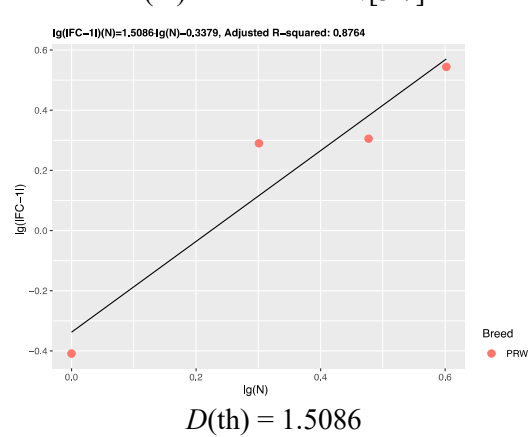
B2b

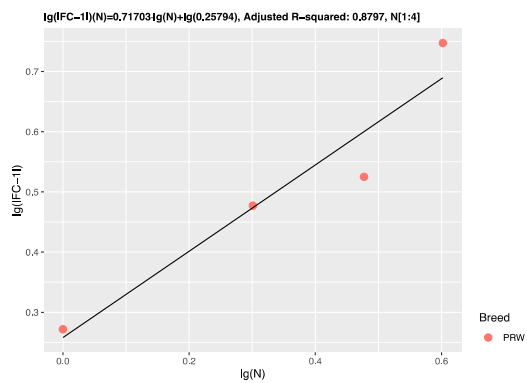


C1a



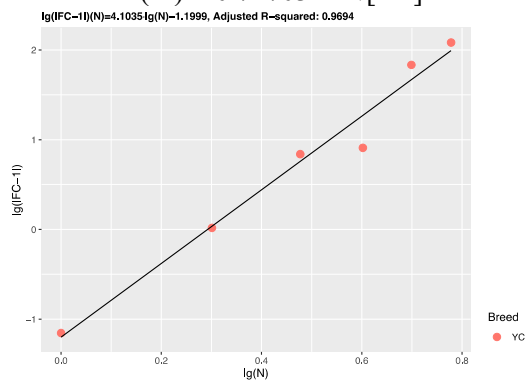
C2



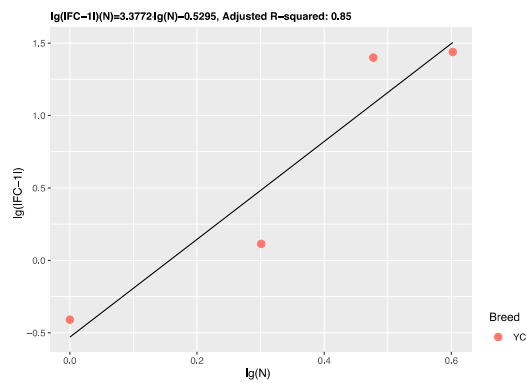


D1

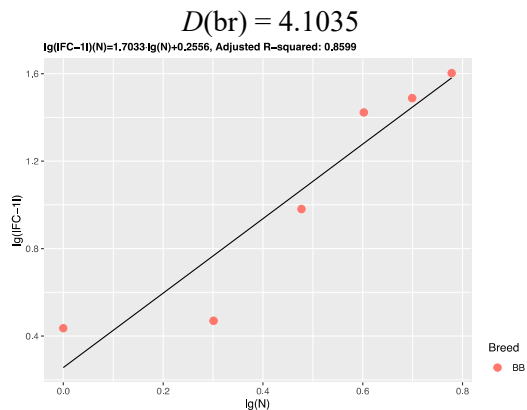
$$D(\text{br}) = 0.71703 \text{ at } N[1:4]$$



D2

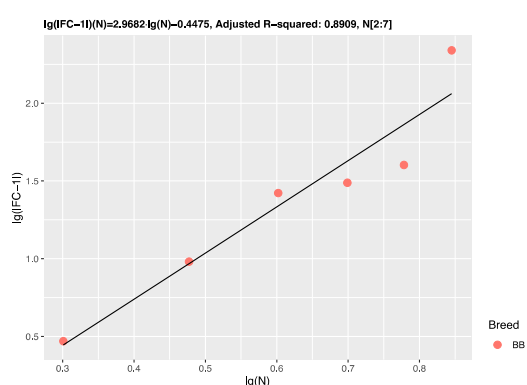


E1a



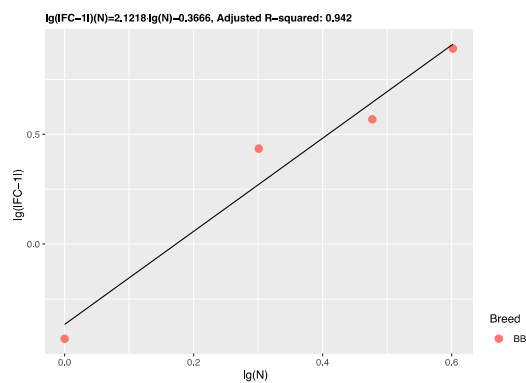
$$D(\text{br}) = 1.7033$$

E1b



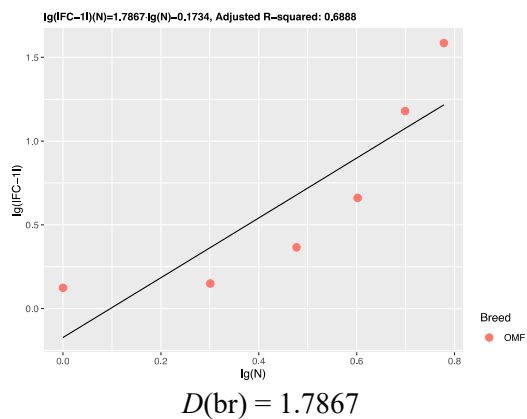
$$D(\text{br}) = 2.9682 \text{ at } N[2:7]$$

E2

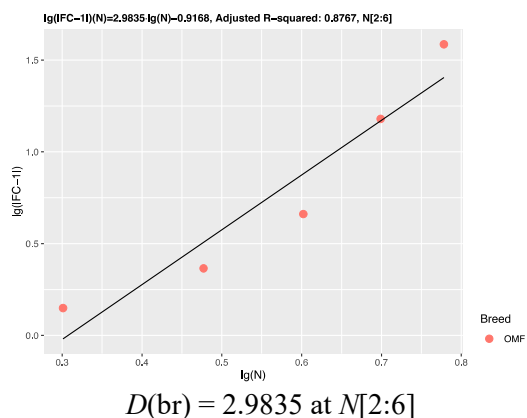


$$D(\text{th}) = 2.1218$$

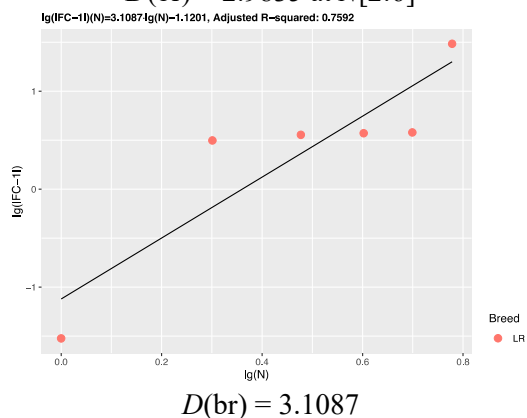
F1a



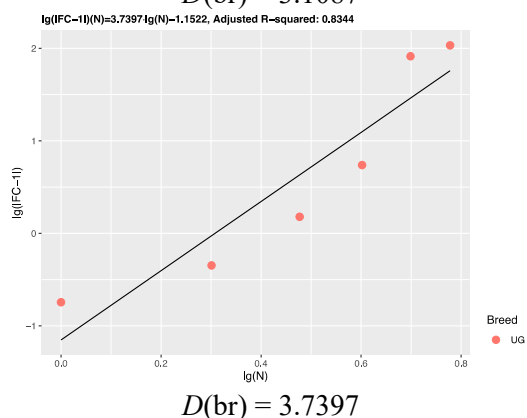
F1b



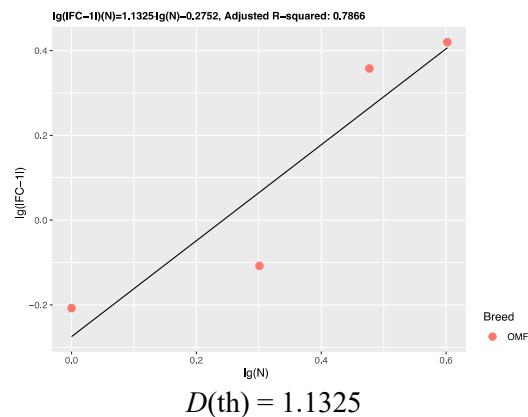
G1



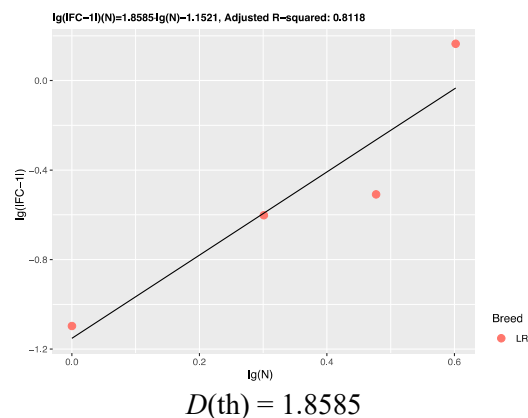
H1



F2



G2



H2

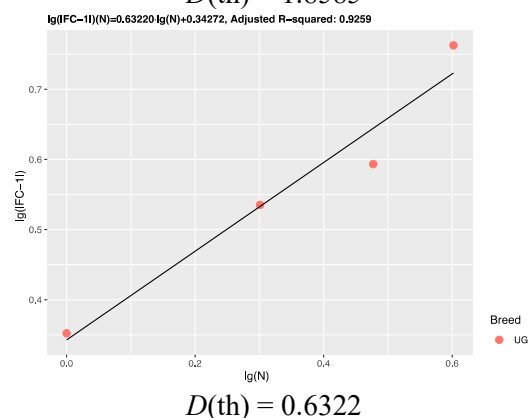


Figure S3. Estimation of fractal dimension coefficients D : approximation of dependence $\lg(|FC - 1|)$ on $\lg(N)$ and determination of fractality index for gene expression of breast (br) and thigh (th) muscles in different breeds. (A1–H1) Breast muscles at $N[1:6]$; (A2–H2) thigh muscles at $N[1:4]$. For the breeds WC (B2b), PRW (C1b), BB (E1b) and OMF (F1b), different and more optimal ranges of gene ranks (N) have also been tested.