

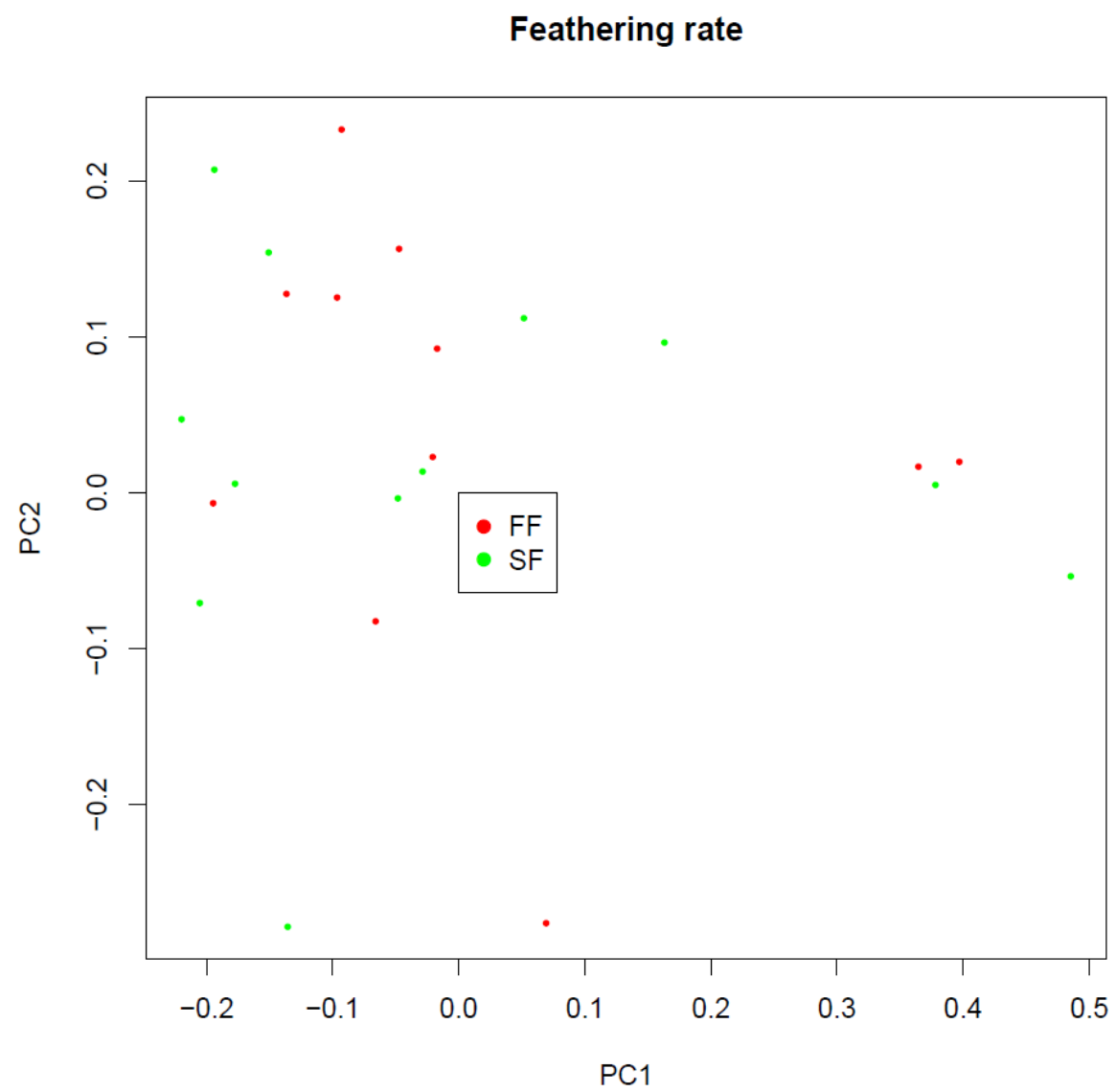


Figure S1: Population PCA for fast feathering (red) and slow-feathering samples (green).

Feathering

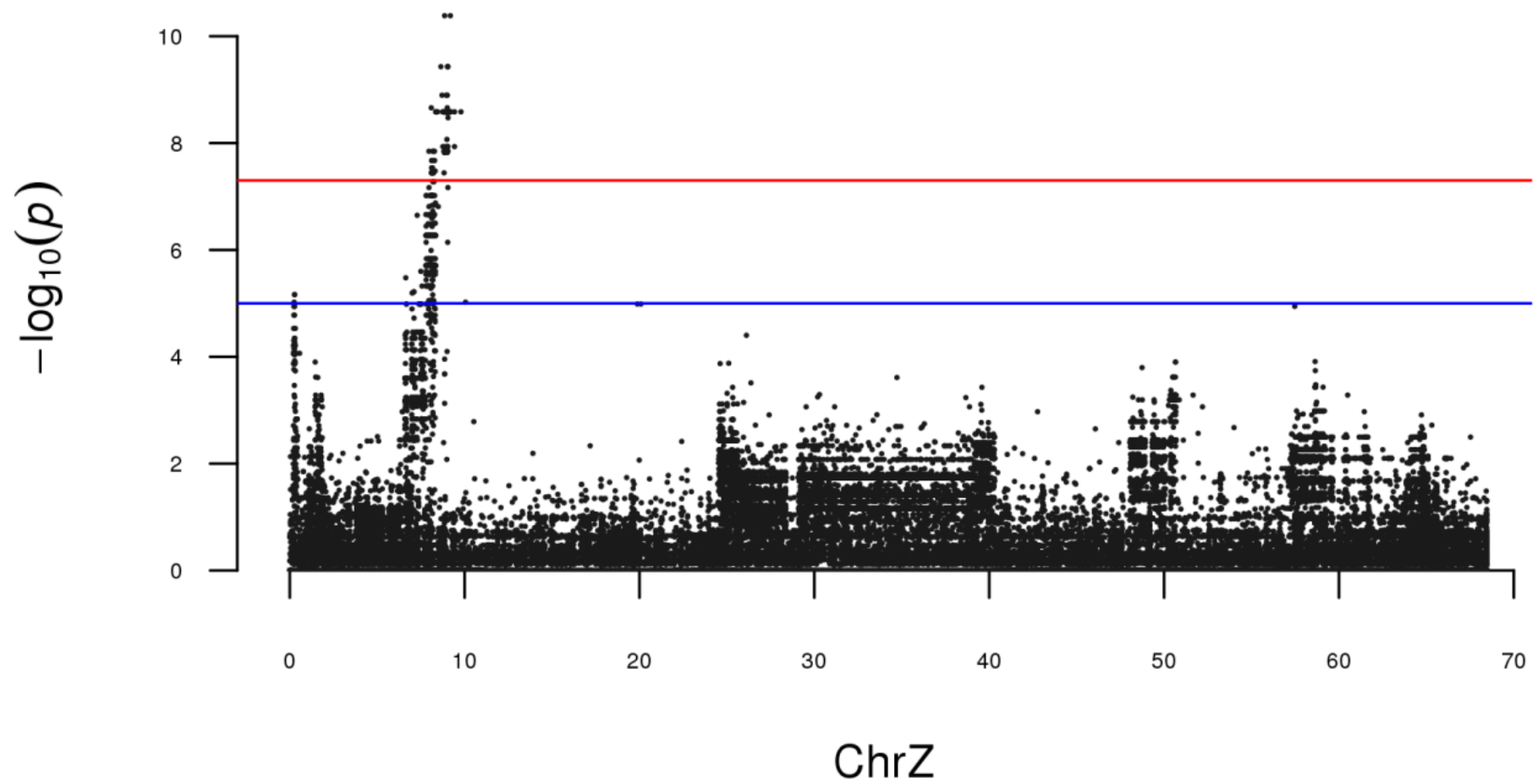


Figure S2: GWAS results for feathering rate at hatch on chromosome Z.

Galgal_PRLR 1 MKQDLISSVQIILFLPLTTVGLAGQSFPGKPKIIRCRSLEKETFSWVKPGSDGGLPTNYTLFYSKDSEE
Melgal_PRLR 1 MKQNLISSVQIILLPLTTVGLITSQSFPGKPKIIRCRSLEKETFSWVKPGSDGGLPTNYTLFYSKDSEE
consensus 1 *** *****

Galgal_PRLR 71 EIIYECPDYRTSGPNSCYFNKNHTSPWTFENITVTATNEIGSNSSDPQYVDVTSIVQPGSPVNLTLTKRS
Melgal_PRLR 71 KIIYECPDYRTSGPNSCYFNKNHTSPWTFENITVTATNEIGSNSSDPQYVDVTSIVQPGSPVNLTLTKRY
consensus 71 *****.* *

Galgal_PRLR 141 ANIMYLWAKWSPPLADASSNHLYHYELRKPEEKEEWETISVGVQTQCKINRLNAGMRYVQVRCMLDP
Melgal_PRLR 141 ANIMYLWAKWSPPLADASSNHLYHYELRKPEEKEEWETISVGVQTQCKINRLNAGMRYVQVRCMLDP
consensus 141 *****.* *****

Galgal_PRLR 211 GEWSEWSSERILIISGCSPPPEKPTIIKCRSPEKETFTCWKPGLDGGHPTNYTLISKEGEEQVYECPD
Melgal_PRLR 211 GEWSEWSSERILIISGCSPPPEKPTIIKCRSPEKETFTCWKPGLDGGHPTNYTLISKEGEEQVYECPD
consensus 211 *****.* *

Galgal_PRLR 281 YRTAGPNSCYFDKKHTSEWTIYNIIVATNEMGSNSSDPHYVDVTYIVQPDPPINVTLELKKPINRKPYL
Melgal_PRLR 281 YRTAGPNSCYFDKKHTSEWTIYNIIVATNEMGSNSSDPHYVDVTYIVQPDPPINVTLELKKPINRKPYL
consensus 281 *****.* *****

Galgal_PRLR 351 MLTWSPPPLADVRSGWLTLYELRLKPEEGEEWETIFVGGQQTQYKMFSLNPGKKYI QIHCKPDHHSWS
Melgal_PRLR 351 MLTWSPPPLADVRSGWLTLYELRLKPEEGEEWETIFVGGQQTQYKMFSLNPGKKYI QIHCKPDHHSWS
consensus 351 *****.* *****

Galgal_PRLR 421 EWSSSENYIIPNDFRVKDMIVWIVLGVLSLICLIMSWTMVLKGYRMITFPLPVPVGPVKIKGIDTHLLET
Melgal_PRLR 421 EWSSSENYIIPNDFRVKDMIVWIVLGVLSLICLIMSWTMVLKGYRMITFPLPVPVGPVKIKGIDTHLLET
consensus 421 ***** *****

Galgal_PRLR 491 GKSEELLSALGCHGLPPTSDCEELLIEYLEVEDSEDOQLMPSHDNGP SKNAKITRKEITDS SGRGSCDS
Melgal_PRLR 491 GKSEELLSALGCHGLPPTSDCEELLIEYLEVEDSEDOQLMPSHDNGP SKNAKITRKEITDS SGRGSCDS
consensus 491 ***** *****

Galgal_PRLR 561 PSLLSEKRETCALPVLQIQEVRDVQCKKAKRSWETQYVASERKALLSNSESAKSSWPAVOLPNSQP
Melgal_PRLR 561 PSLLSEKRETCALPVLQIQEVRDVQCKKAKRSWESYCVASERKALLSNSESAKSSWPAVOLPNNQP
consensus 561 ***** ** *****

Galgal_PRLR 631 PMFAYHSIVLANKITLNTNTNVA AVLVEDEEERHQSOCSLTETIPGEMEKQEMENLH SKTQTQTTAOVKQ
Melgal_PRLR 631 PMFAYHSIVLANKITLNTNTNVA AVLVENEEERHQSLSLSETISGEMEKQEMENLH SKTQTQTTVQVRQ
consensus 631 * *****.* *

Galgal_PRLR 701 NRSNERLPFLDAALMDYVEVHKVIRQDEEPAVLLKHKENSGKIEKYTISGASKEYTKVSTVMNHNILVLM
Melgal_PRLR 701 NRSNERLPFLDAALMDYVEVHKVIRQDEEPAVLLKHKENSGKIEKYTISGASKEYTKVSTVMNHNILVLM
consensus 701 ***** *****

Galgal_PRLR 771 PDSRVLPHTPASQ-EPAKETSQSLQQGQVEKNMSYCTAPSDCKRETGSGSEYMDPSSFMPSPFK
Melgal_PRLR 770 PDSRVLPHTPASQEEPAKETSQNEQQGQVEKNMSYCTAPSDCKRETGSGSEYMDPSSFMPSPFK
consensus 771 ***** ** *****

Figure S3: Chicken (Galgal) and turkey (Melgal) PRLR protein alignment. Sequences share 90.24 percent identity. The red (turkey) and blue (chicken) arrows indicate the start location of the C-terminal loss in both species.