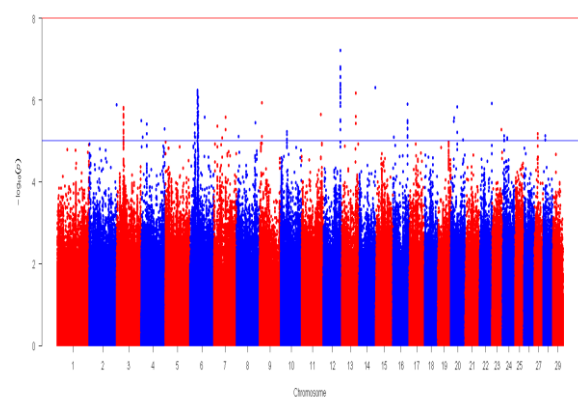
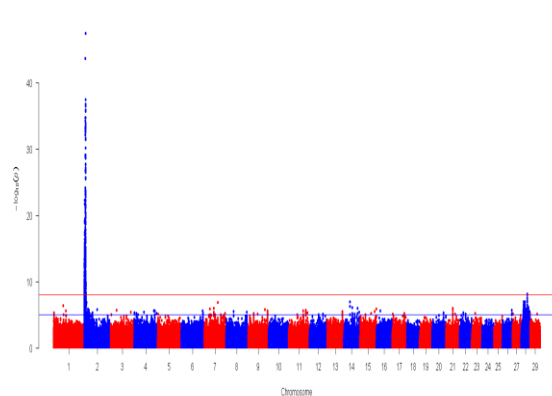


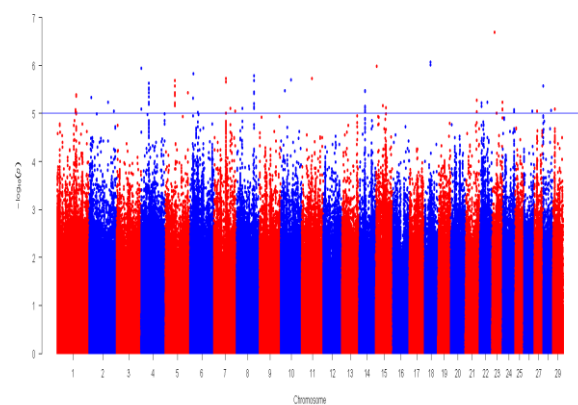
a)



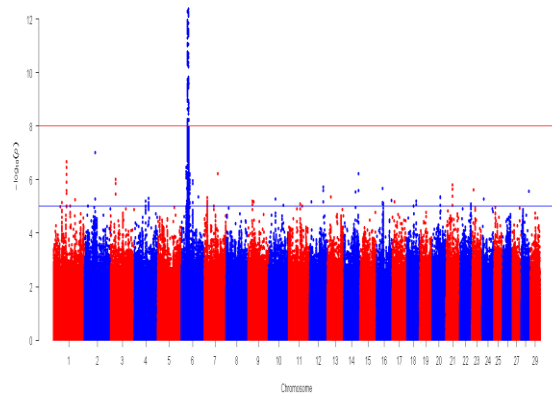
b)



c)



d)



e)

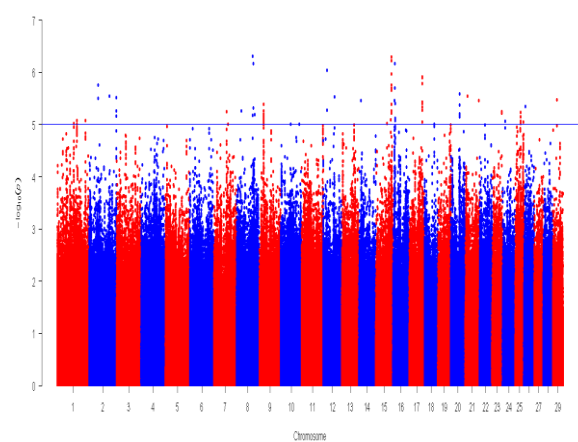


Figure S5: Manhattan plots for back length in a) Angus, b) Charolais, c) Hereford, d) Limousin, and e) Simmental.