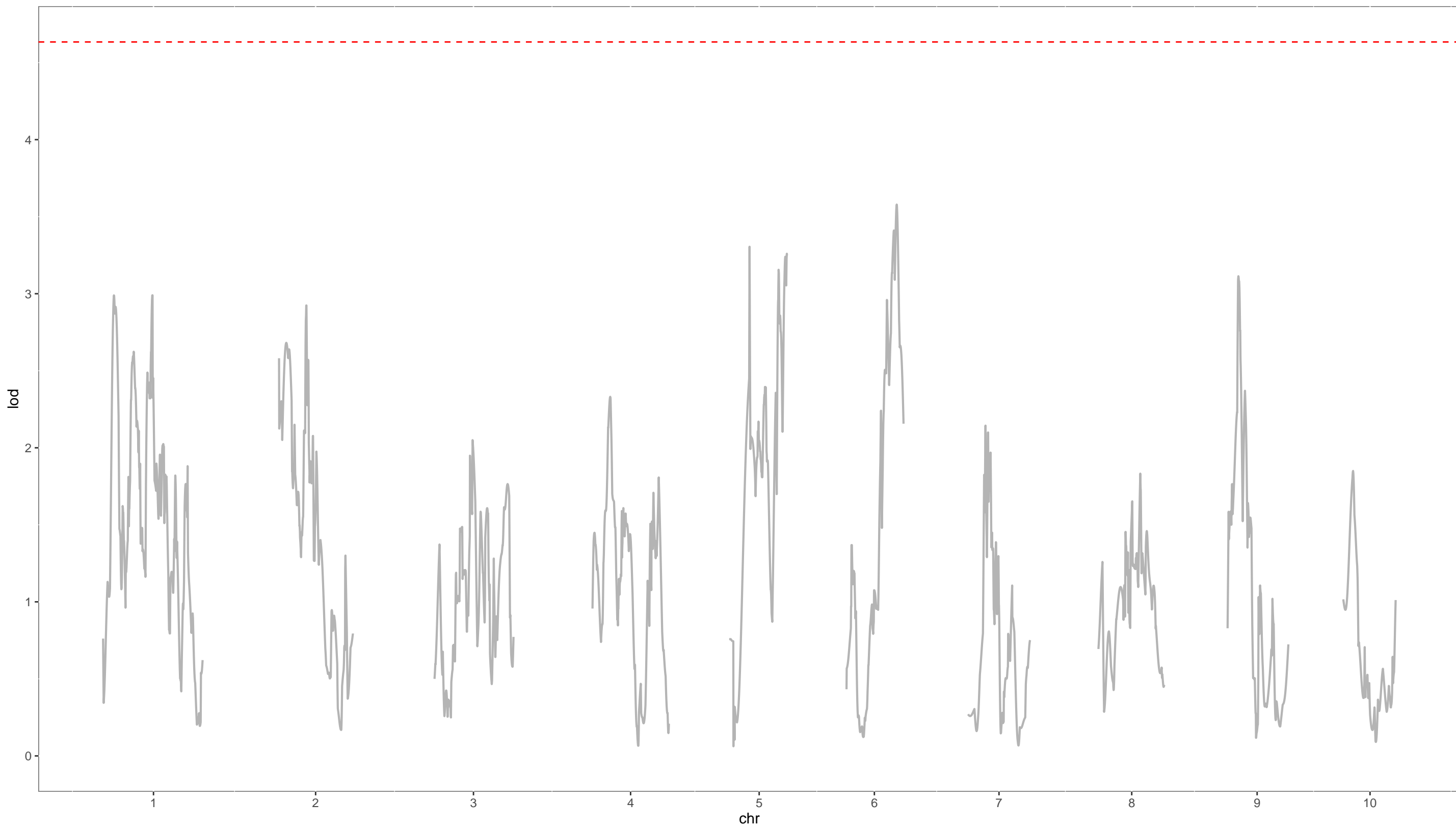
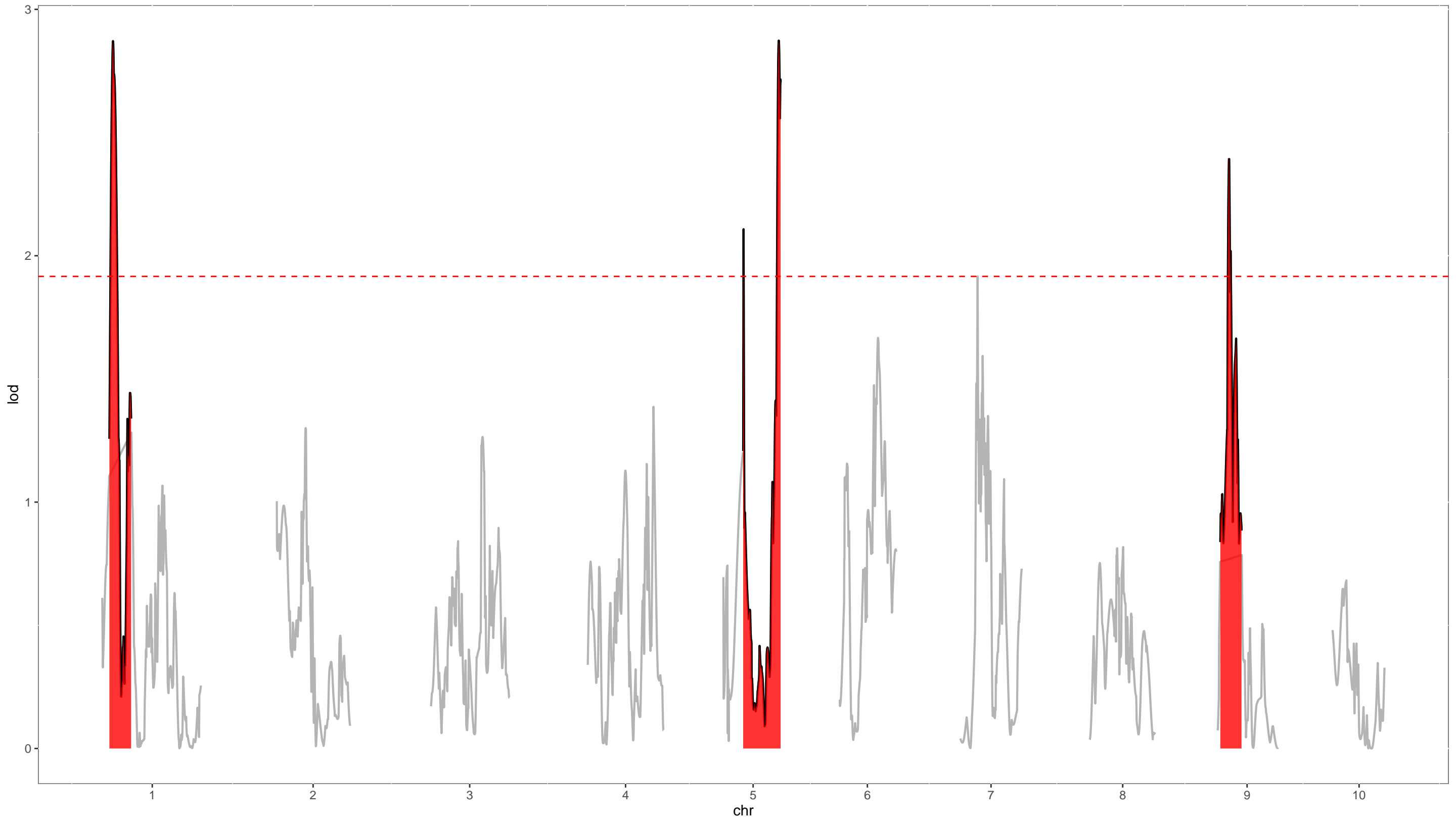


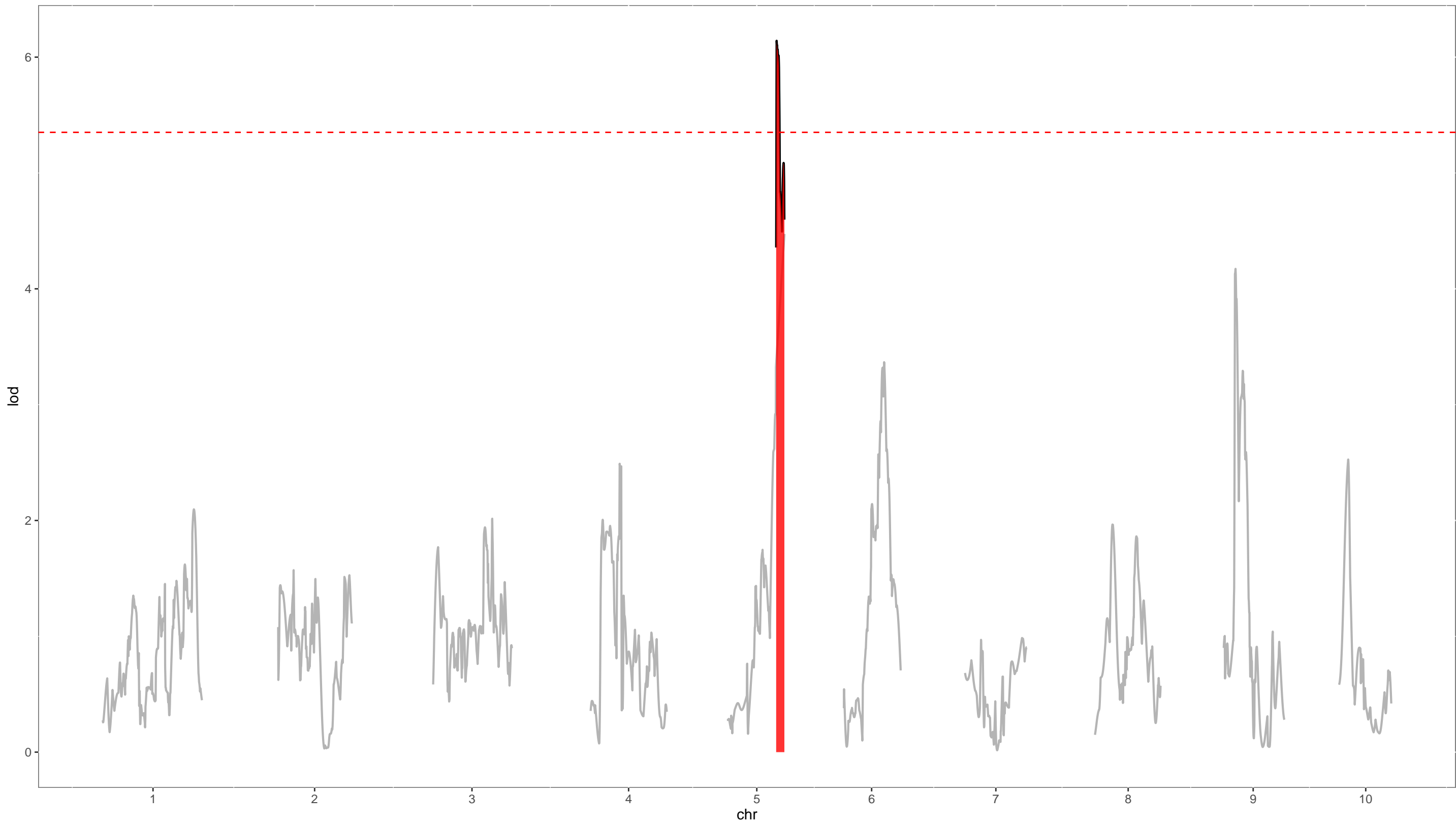
QTL analysis for int\_additive covariate for AI\_leaf.f



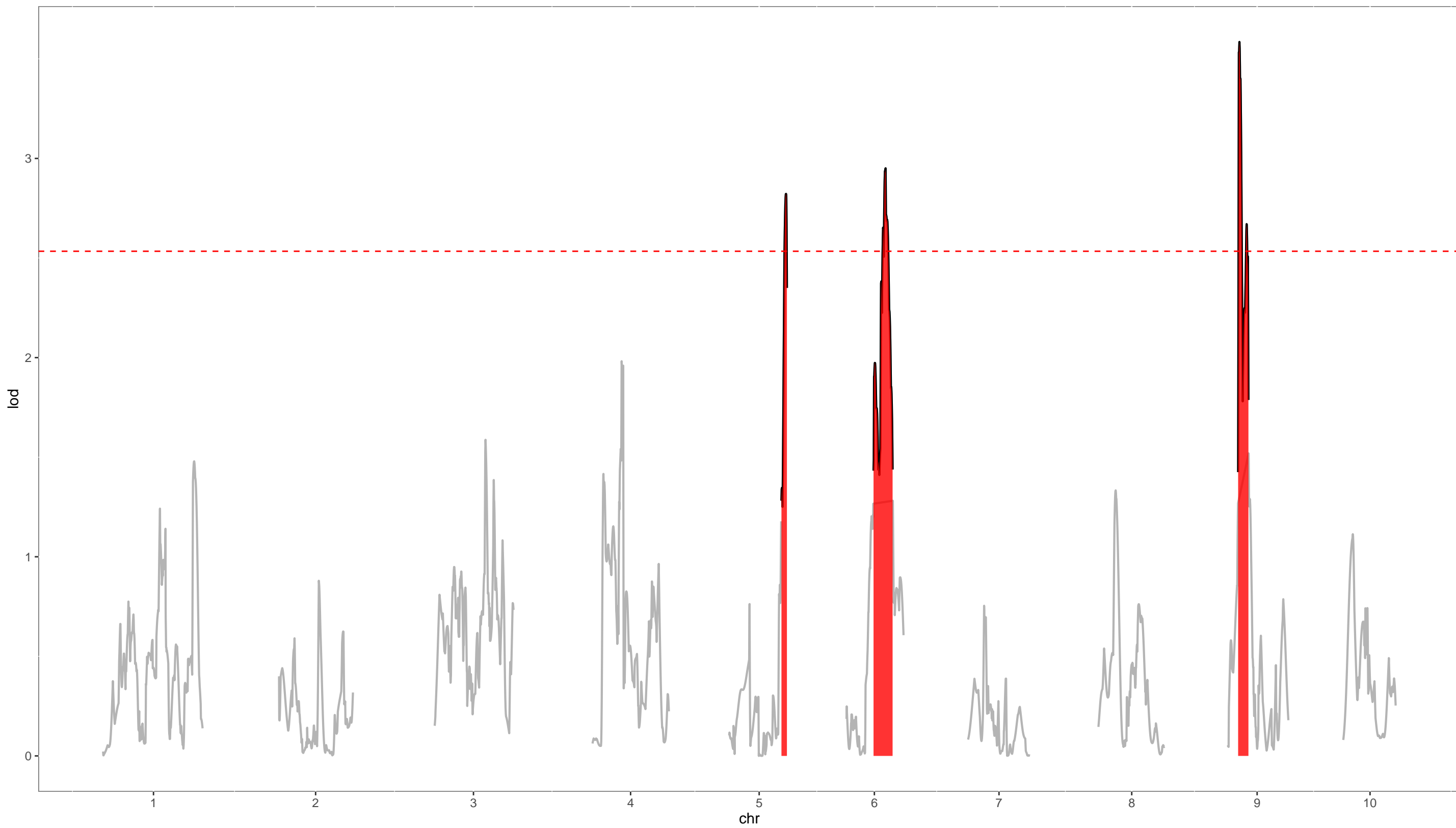
QTL analysis for int\_additive covariate for AI\_leaf.i



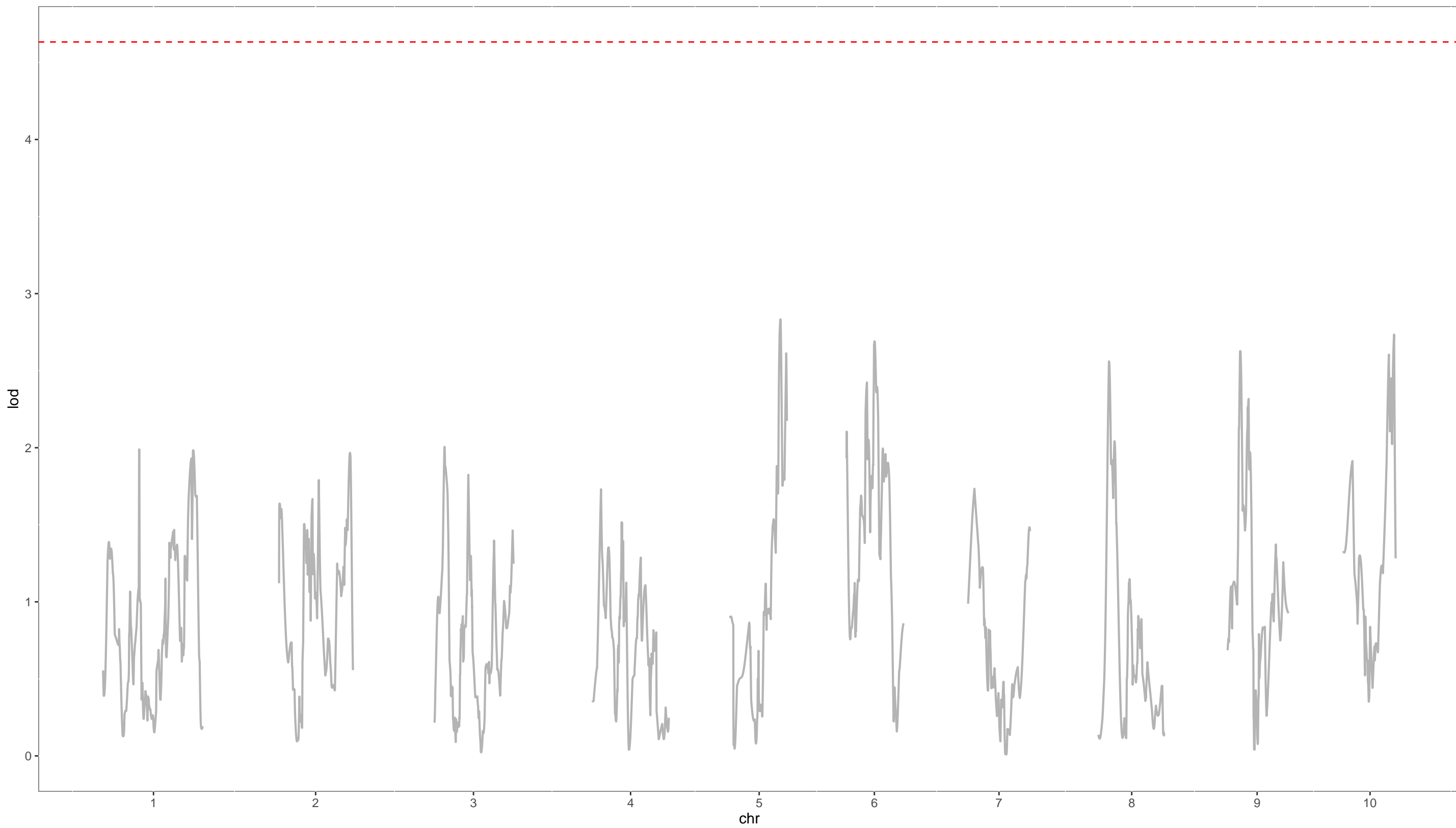
QTL analysis for int\_additive covariate for AI\_ratio.f



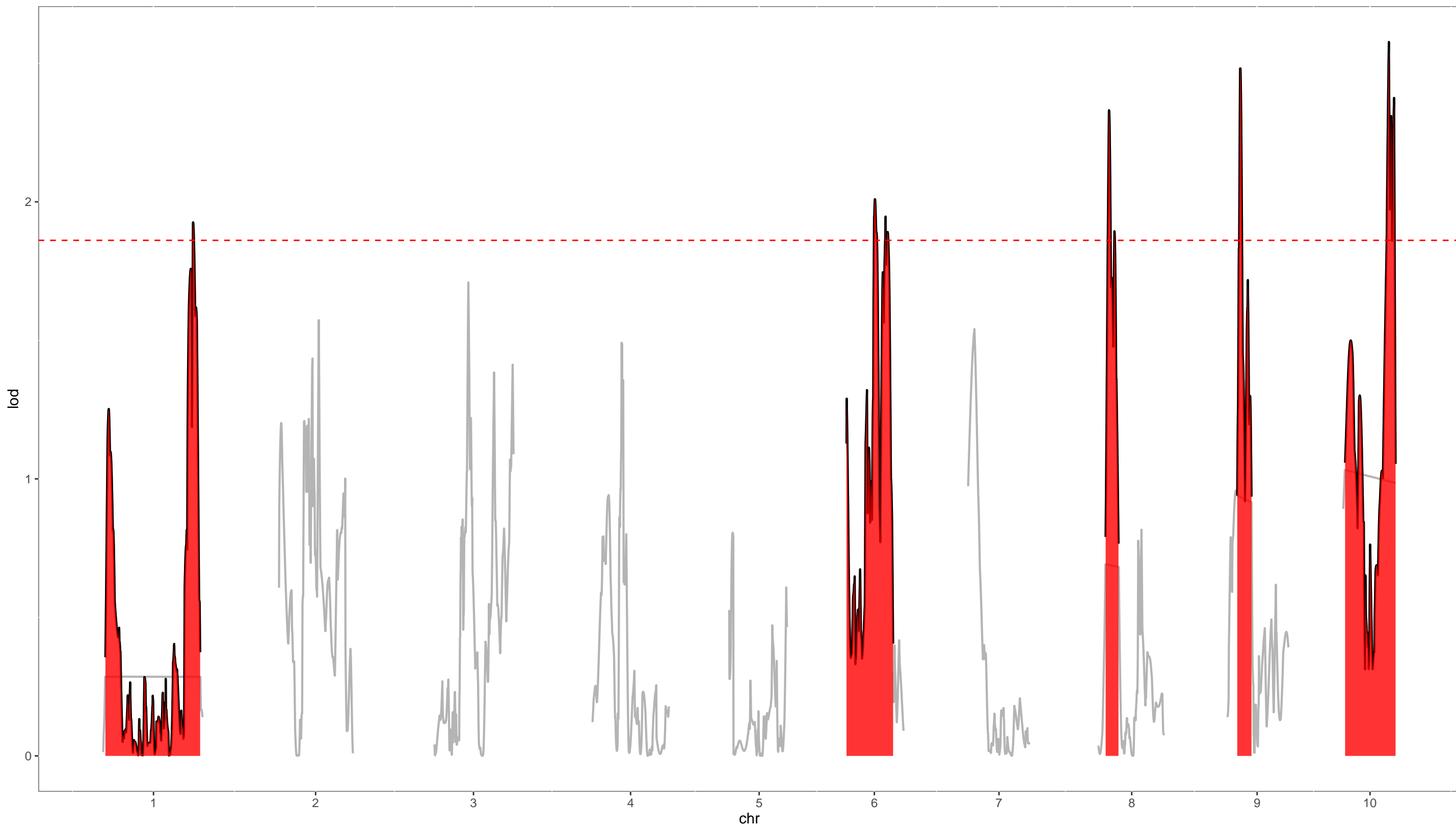
QTL analysis for int\_additive covariate for AI\_ratio.i



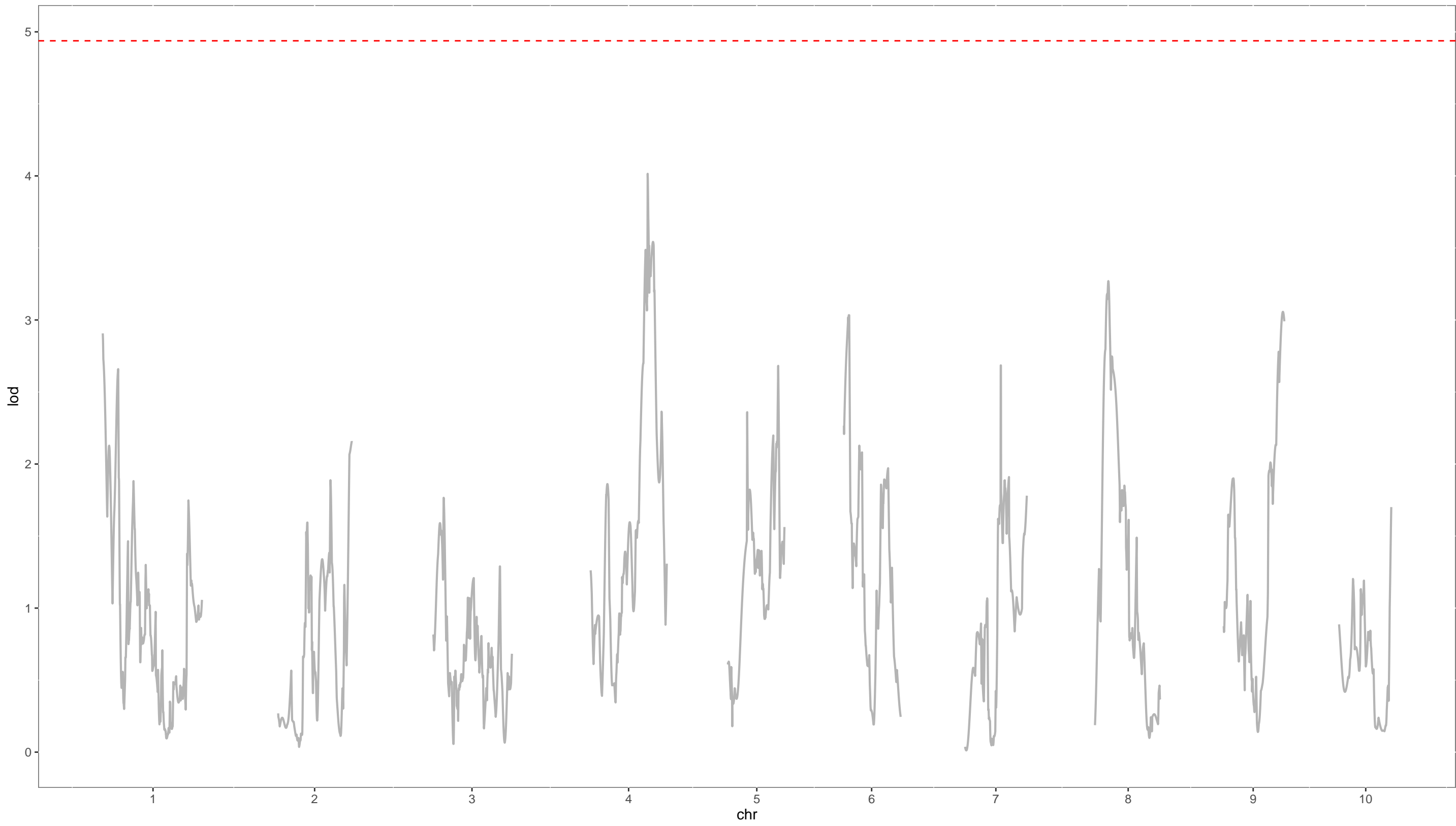
QTL analysis for int\_additive covariate for AI\_seed.f



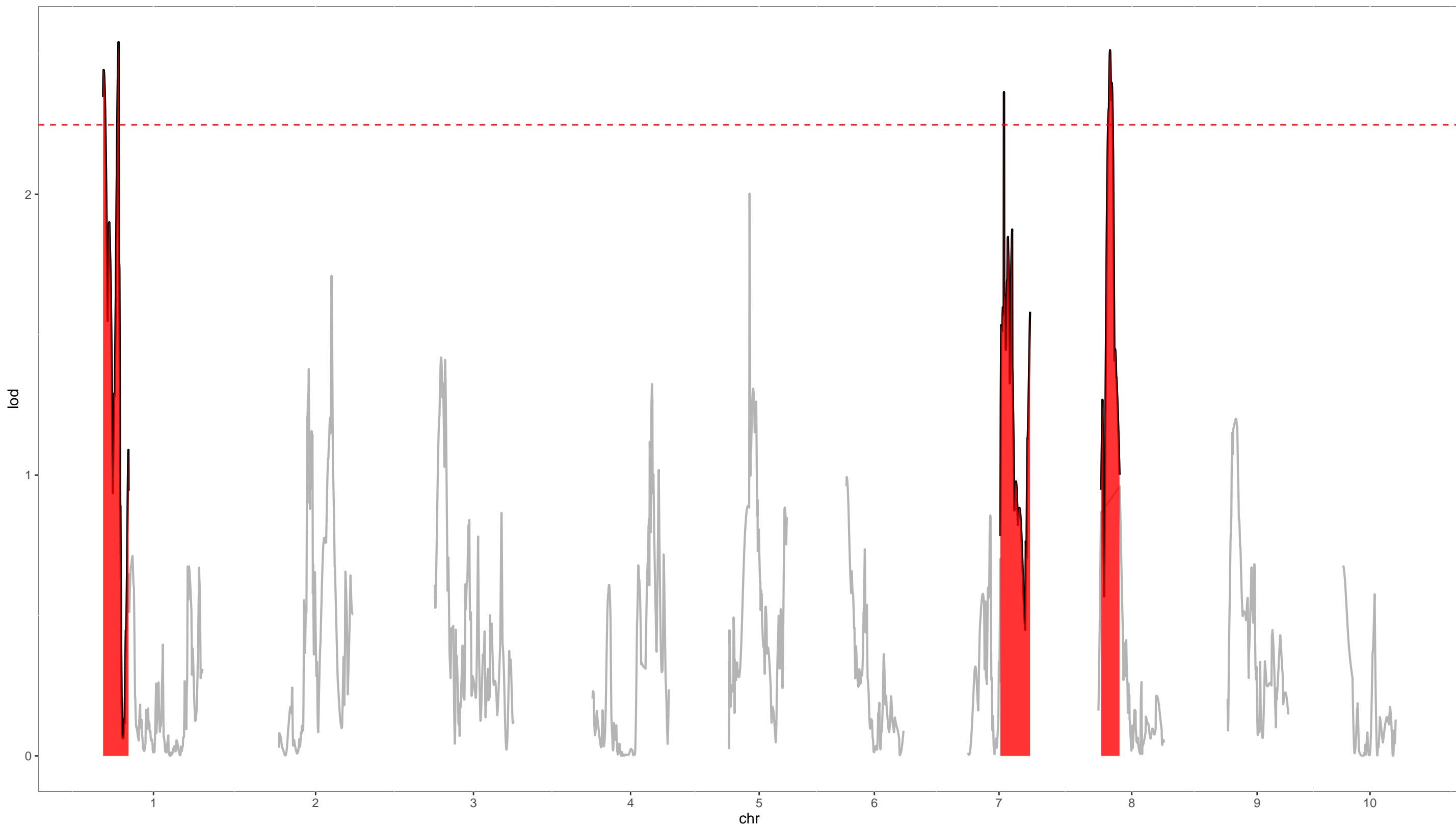
QTL analysis for int\_additive covariate for AI\_seed.i



QTL analysis for int\_additive covariate for As\_leaf.f

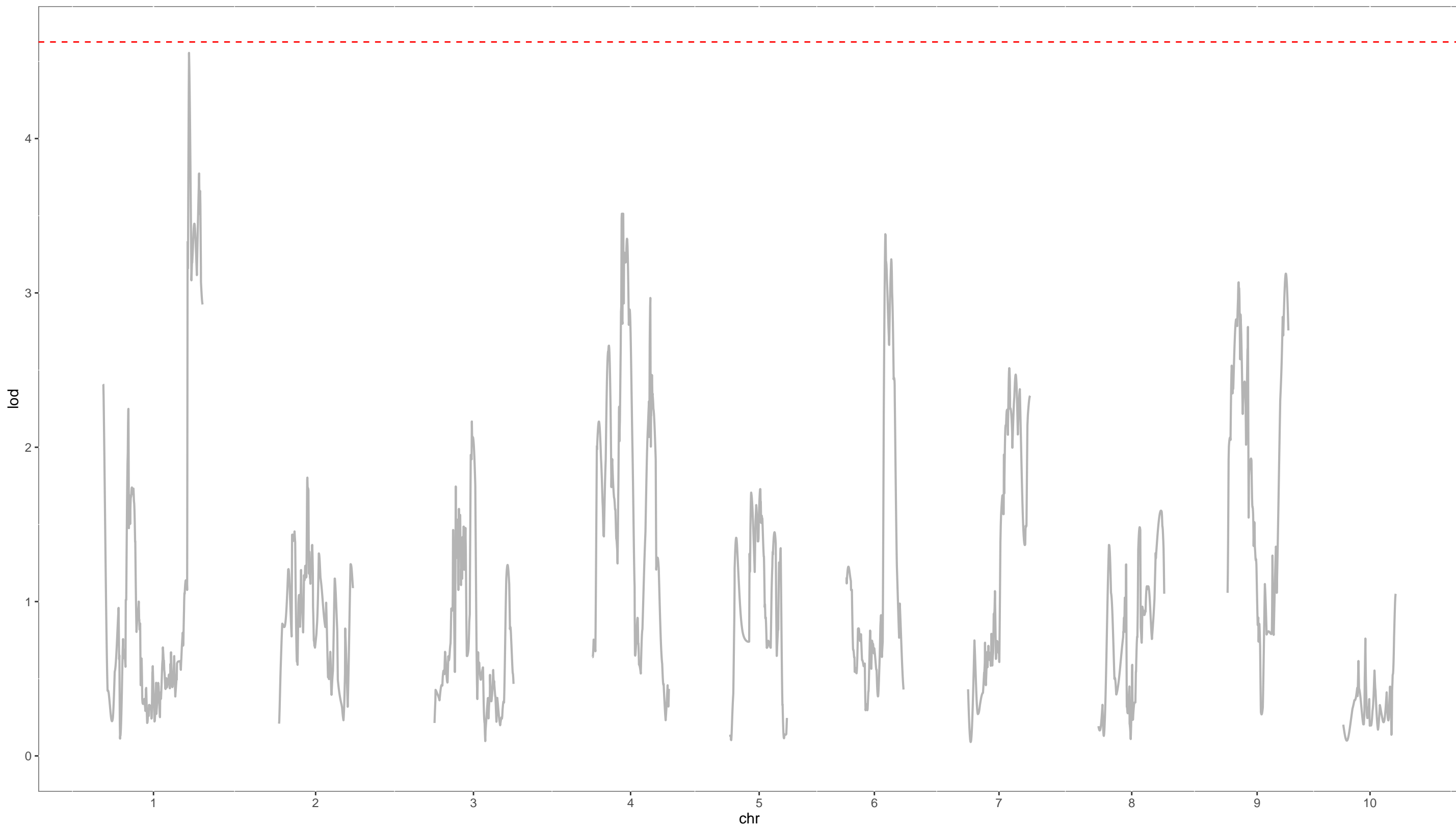


QTL analysis for int\_additive covariate for As\_leaf.i

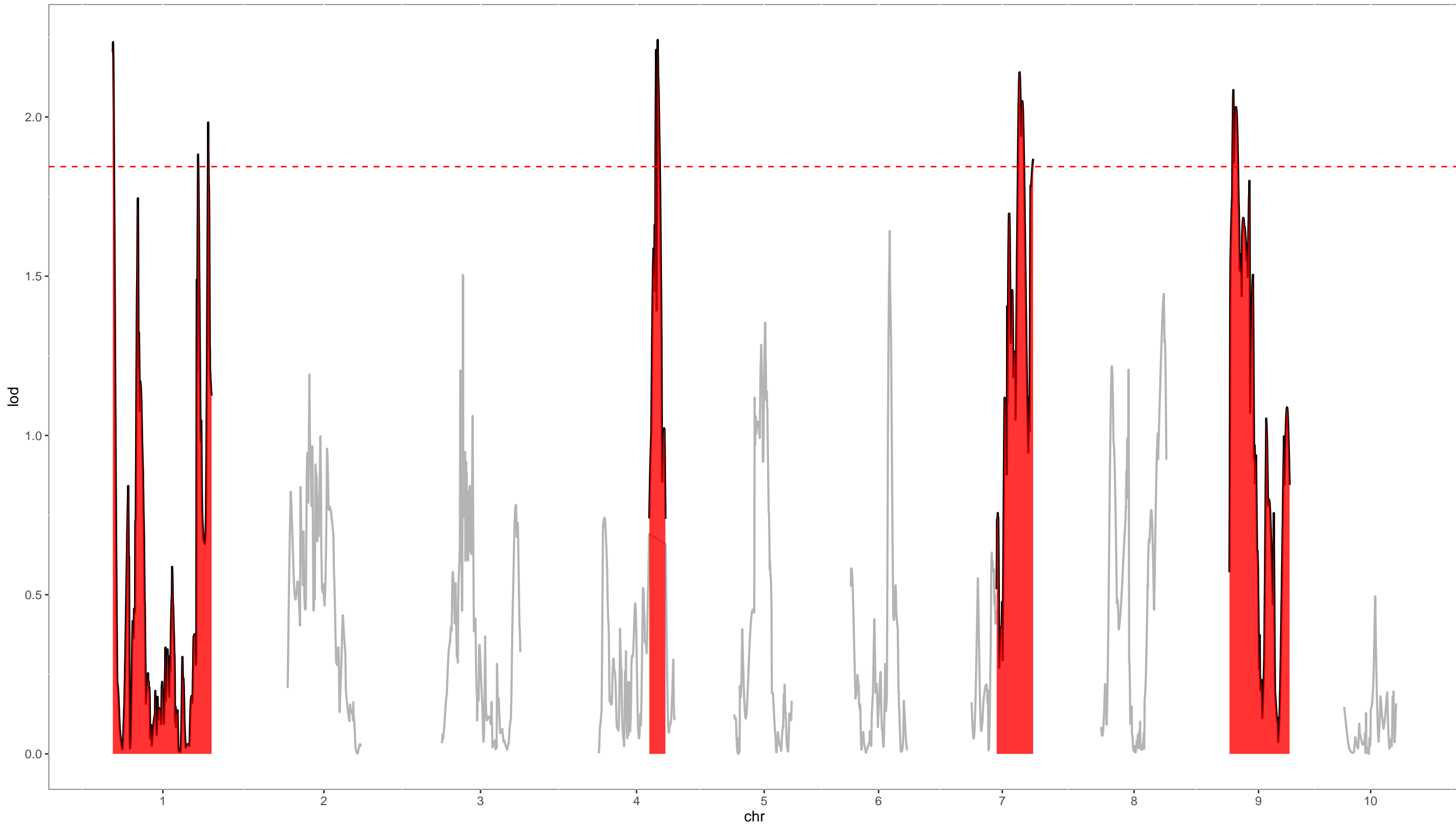




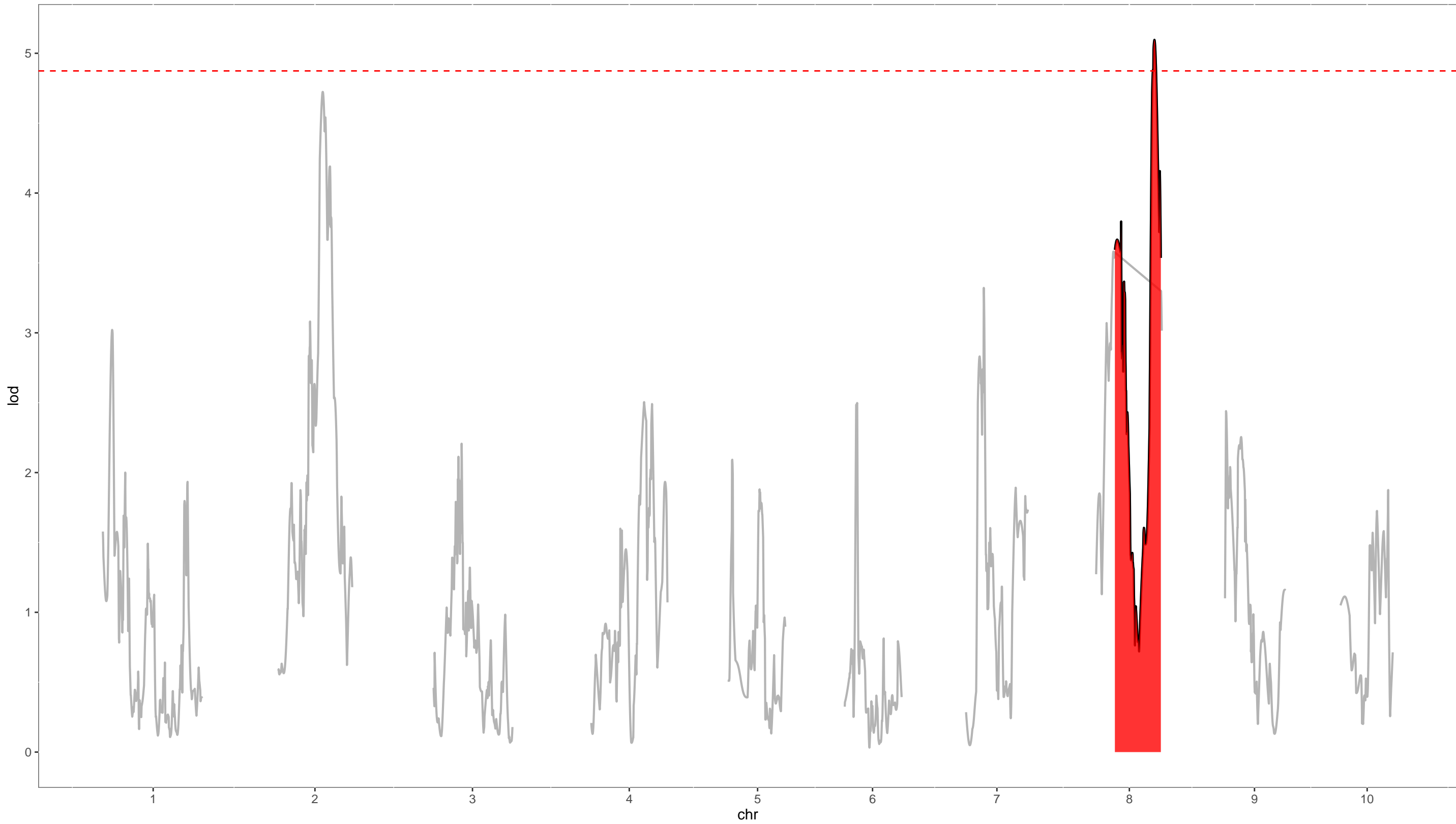
QTL analysis for int\_additive covariate for As\_ratio.f



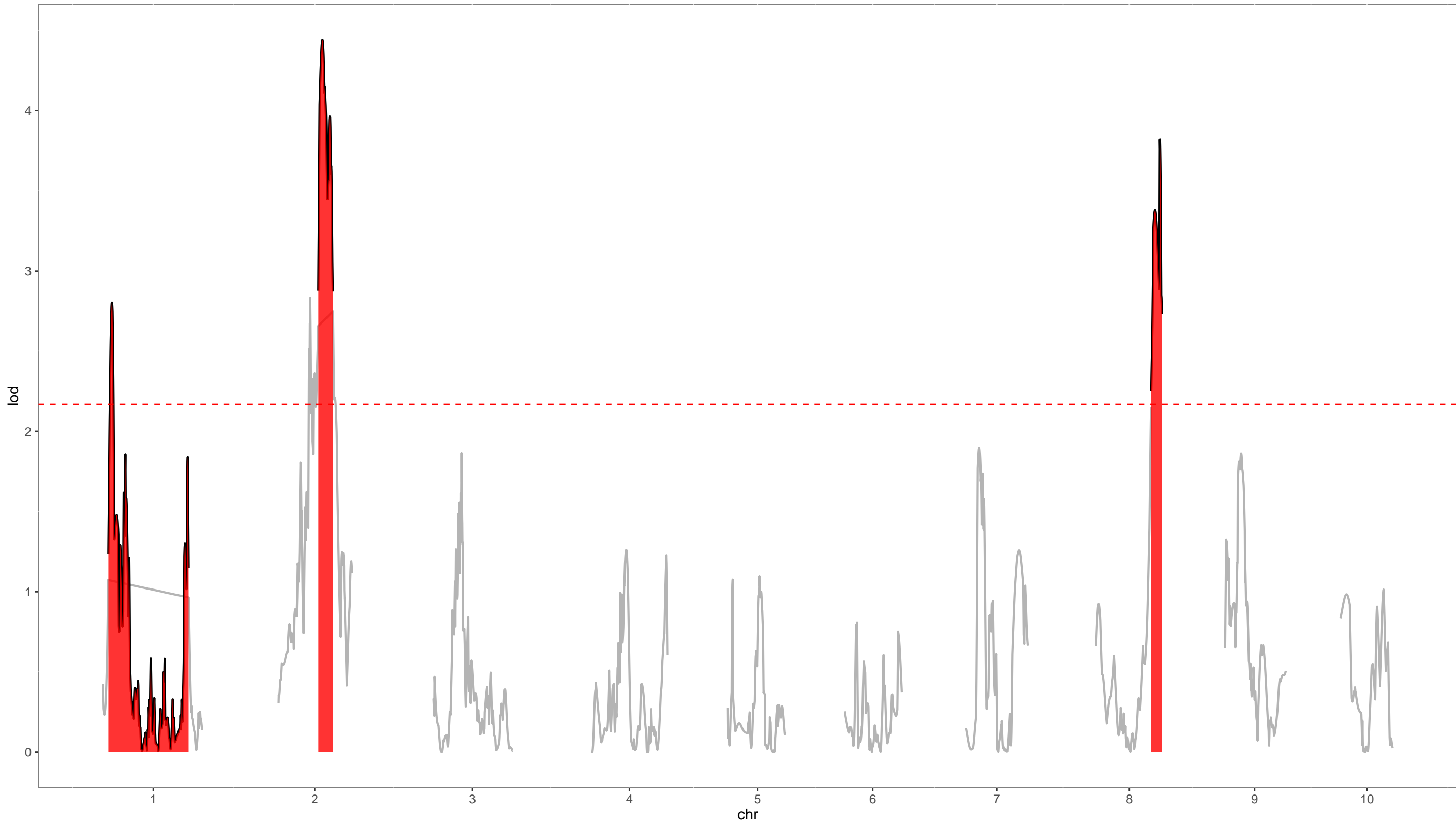
QTL analysis for int\_additive covariate for As\_ratio.i



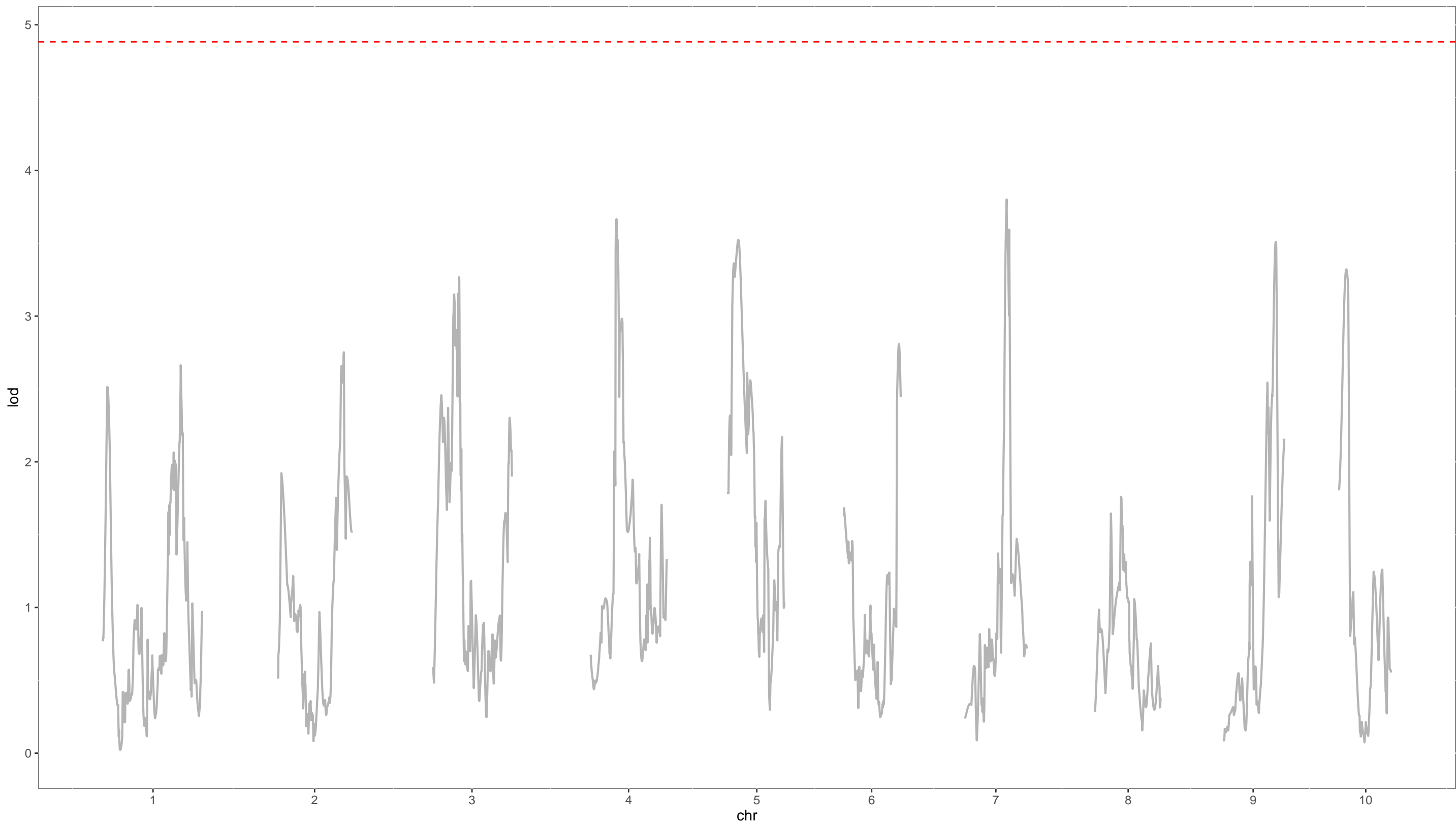
QTL analysis for int\_additive covariate for As\_seed.f



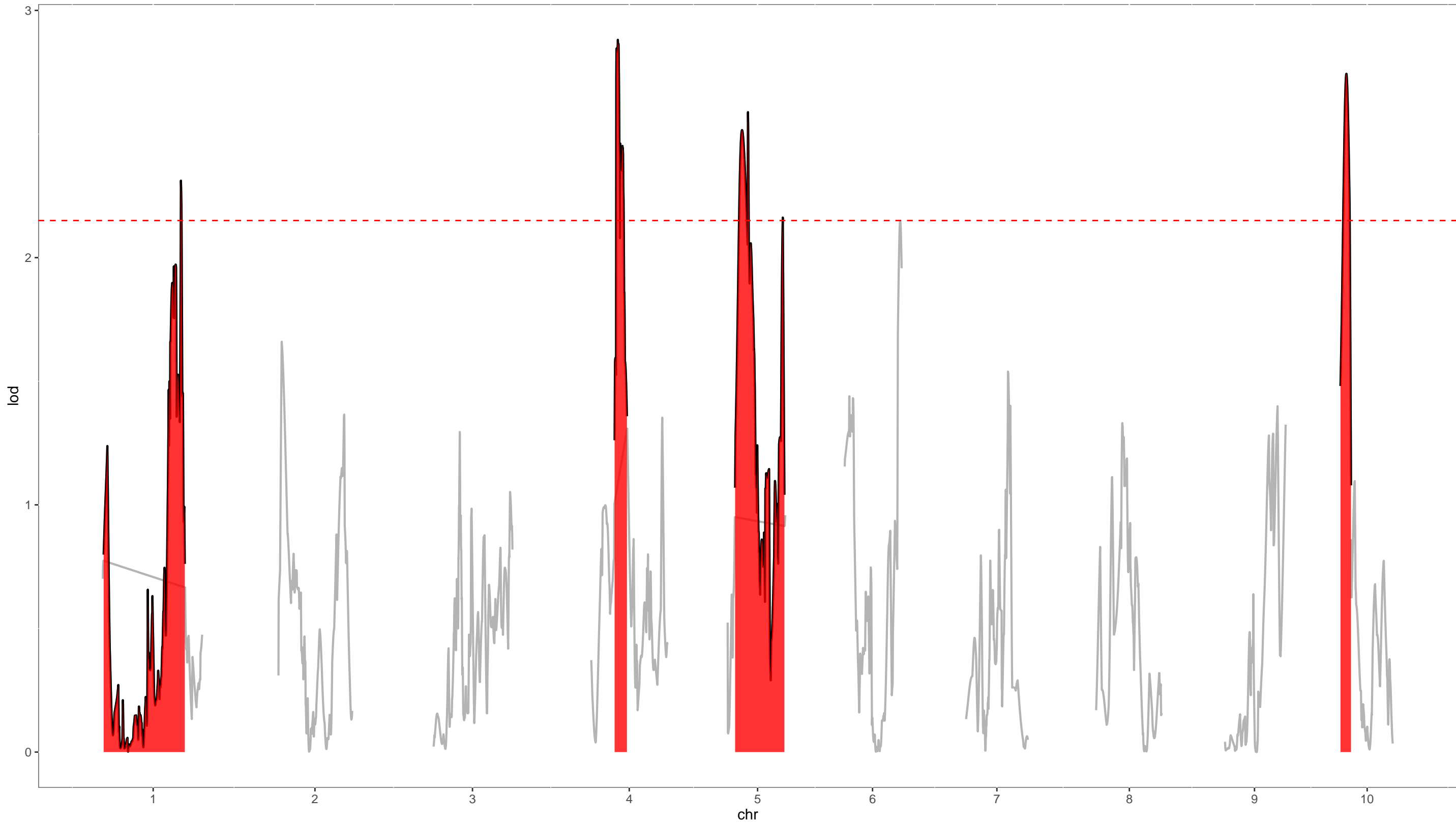
QTL analysis for int\_additive covariate for As\_seed.i



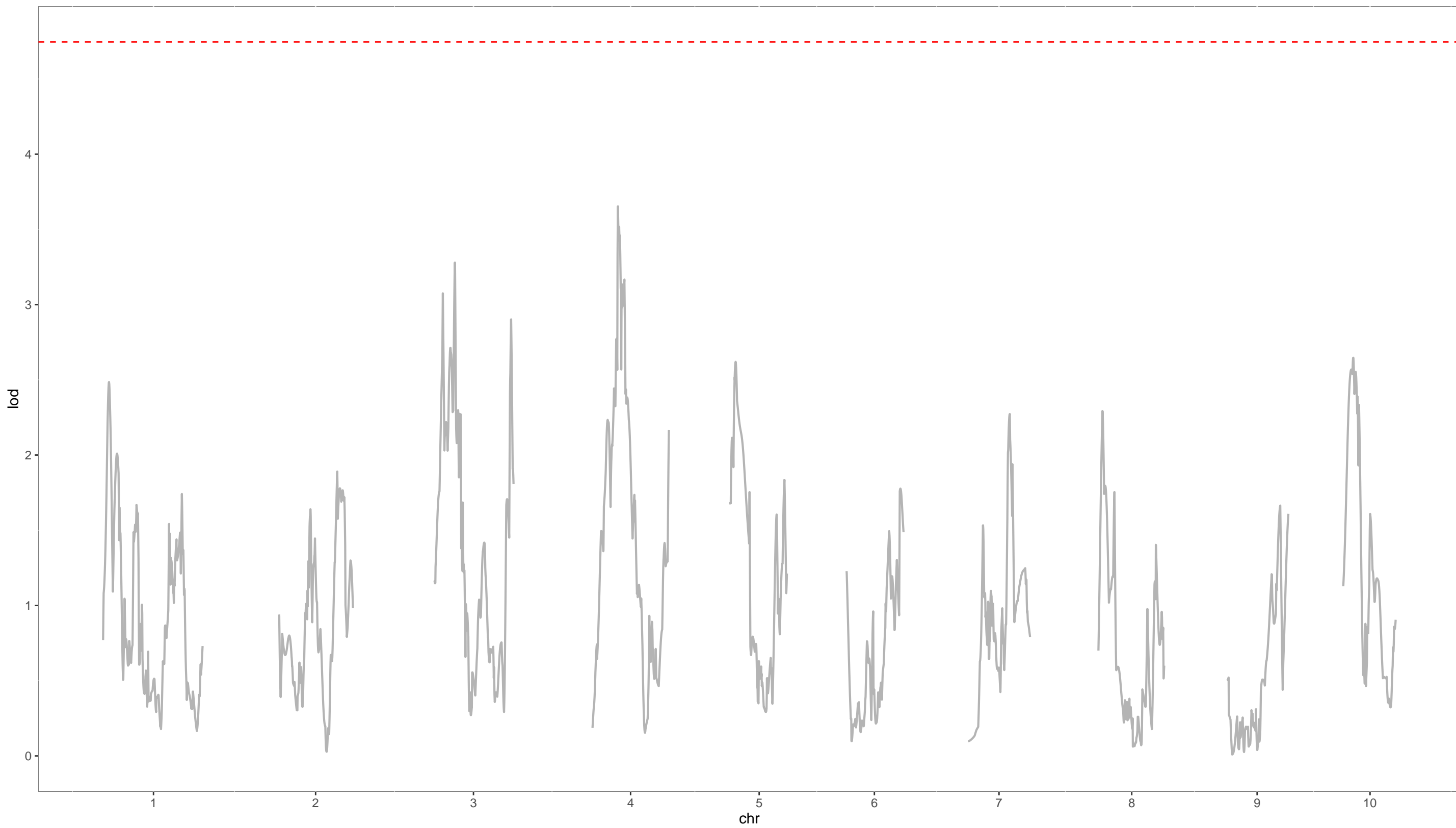
QTL analysis for int\_additive covariate for B\_leaf.f



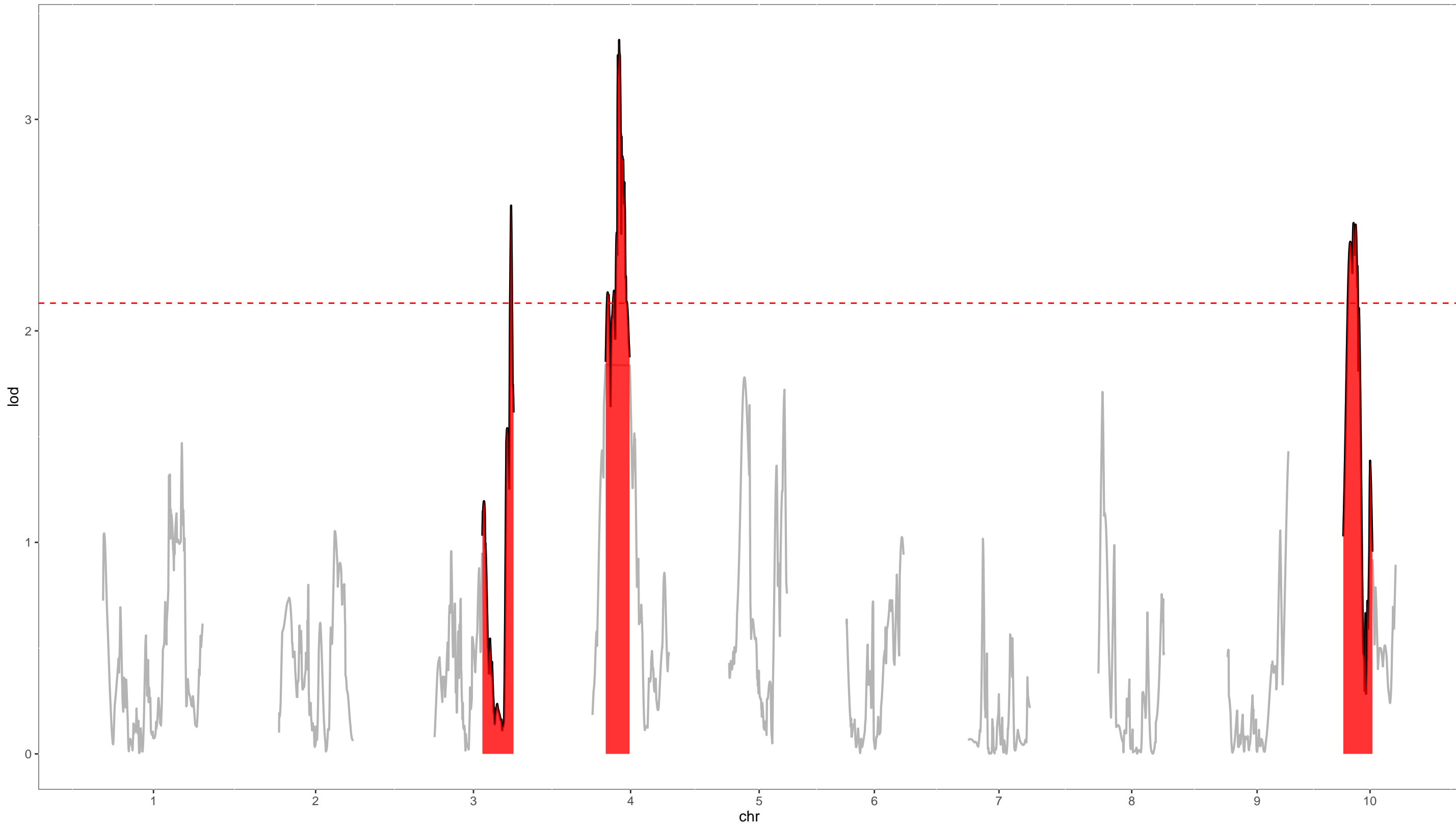
QTL analysis for int\_additive covariate for B\_leaf.i



QTL analysis for int\_additive covariate for B\_ratio.f

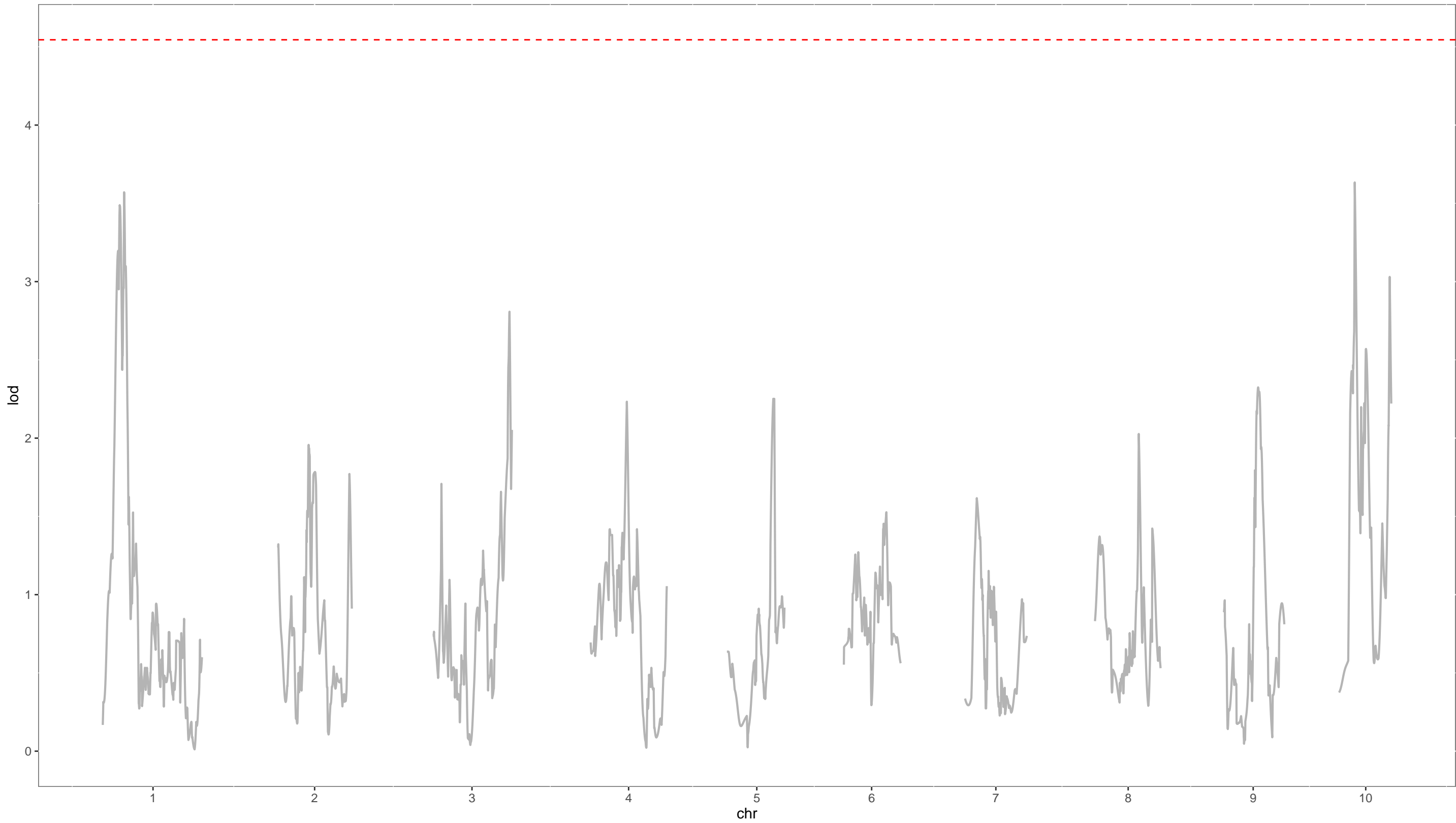


QTL analysis for int\_additive covariate for B\_ratio.i

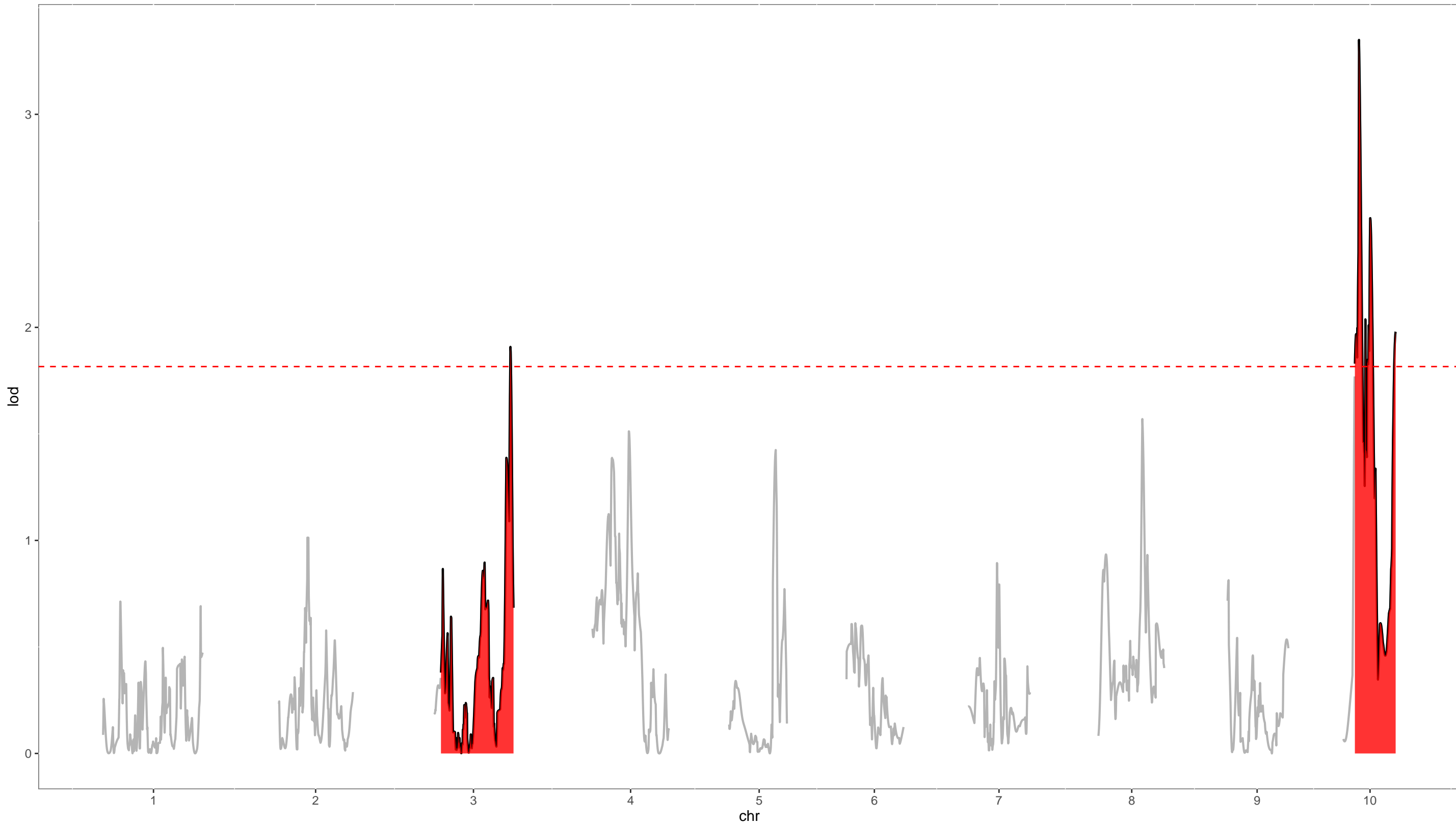




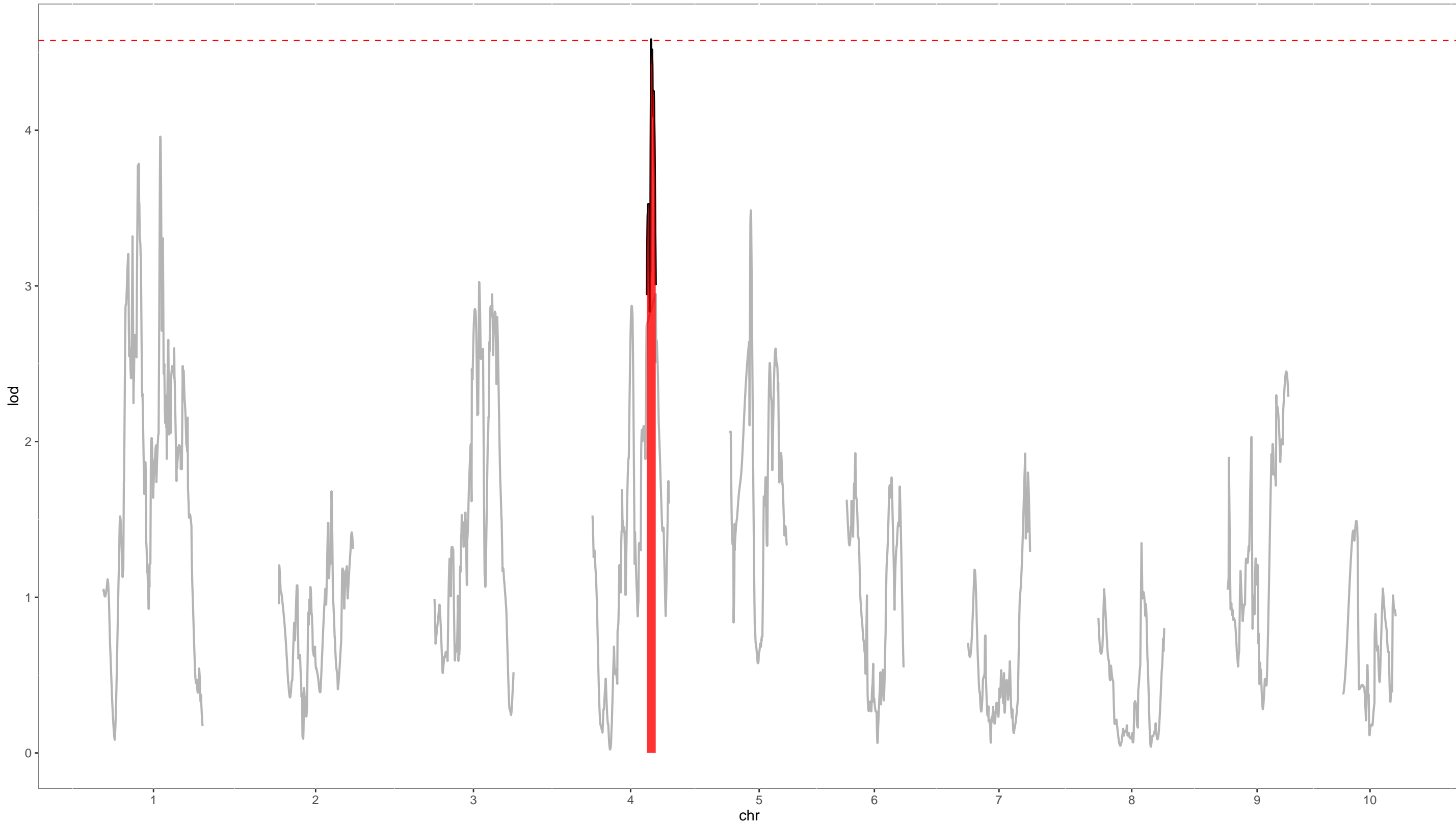
QTL analysis for int\_additive covariate for B\_seed.f



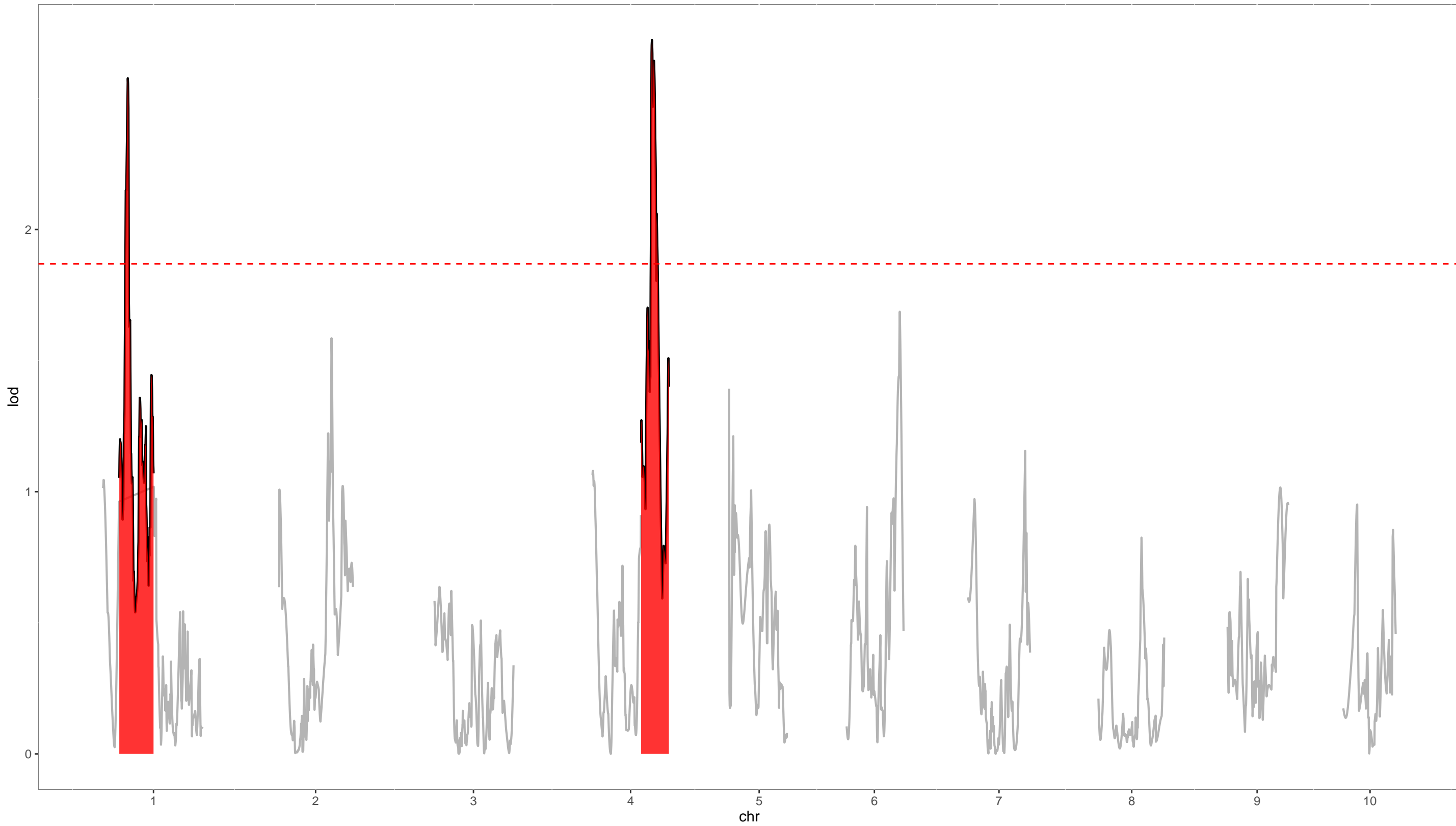
QTL analysis for int\_additive covariate for B\_seed.i



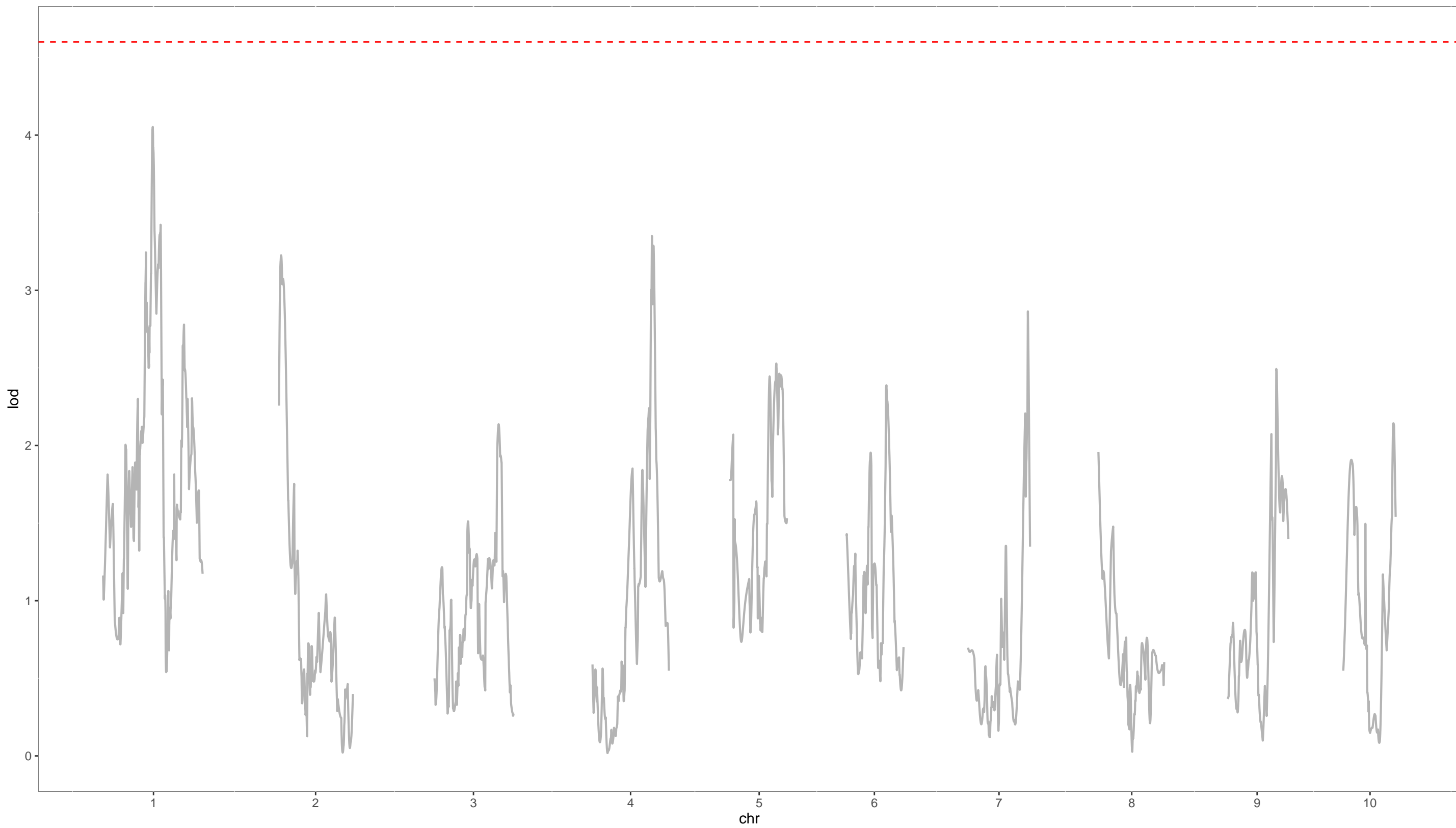
QTL analysis for int\_additive covariate for Ca\_leaf.f



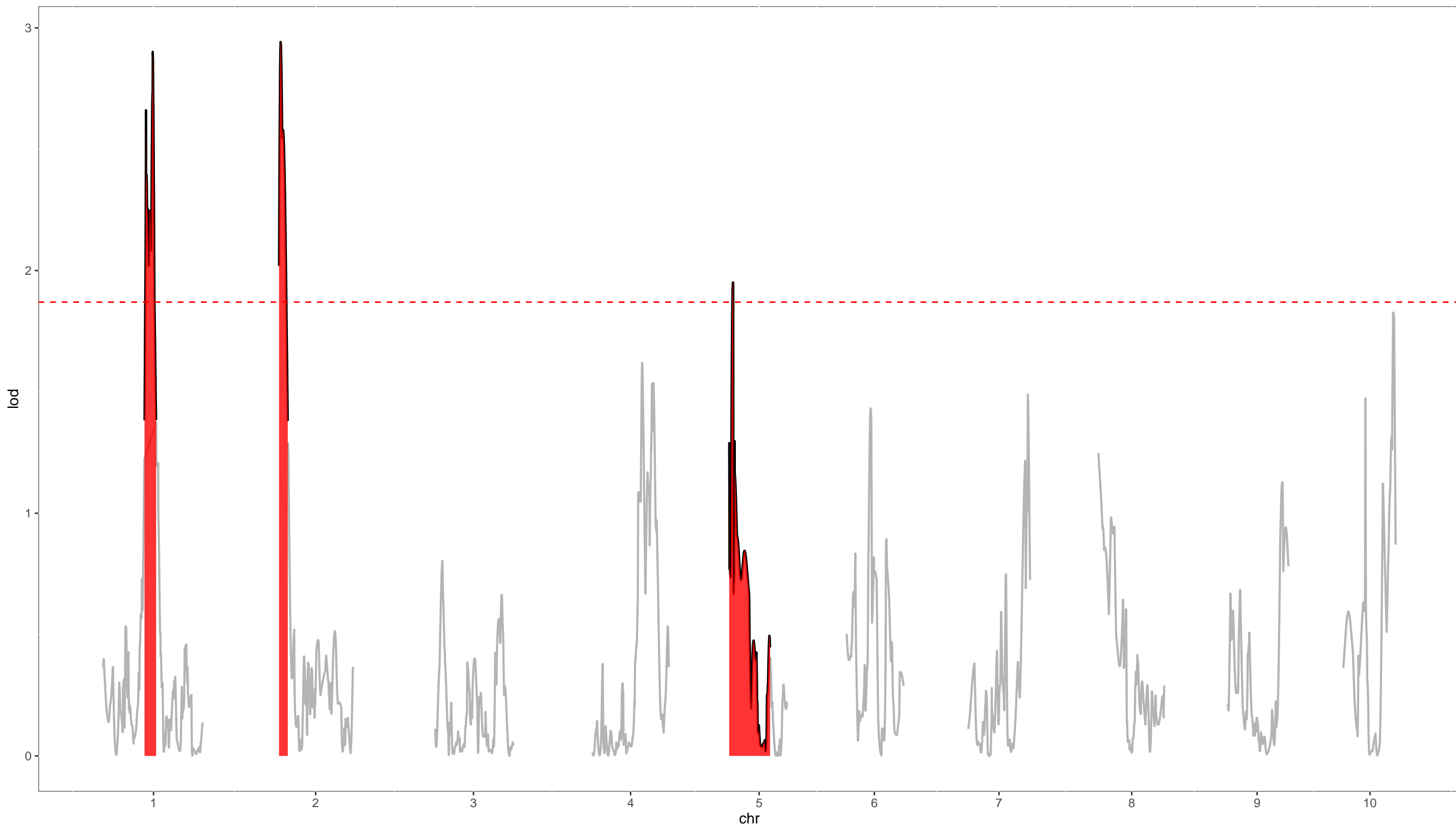
QTL analysis for int\_additive covariate for Ca\_leaf.i



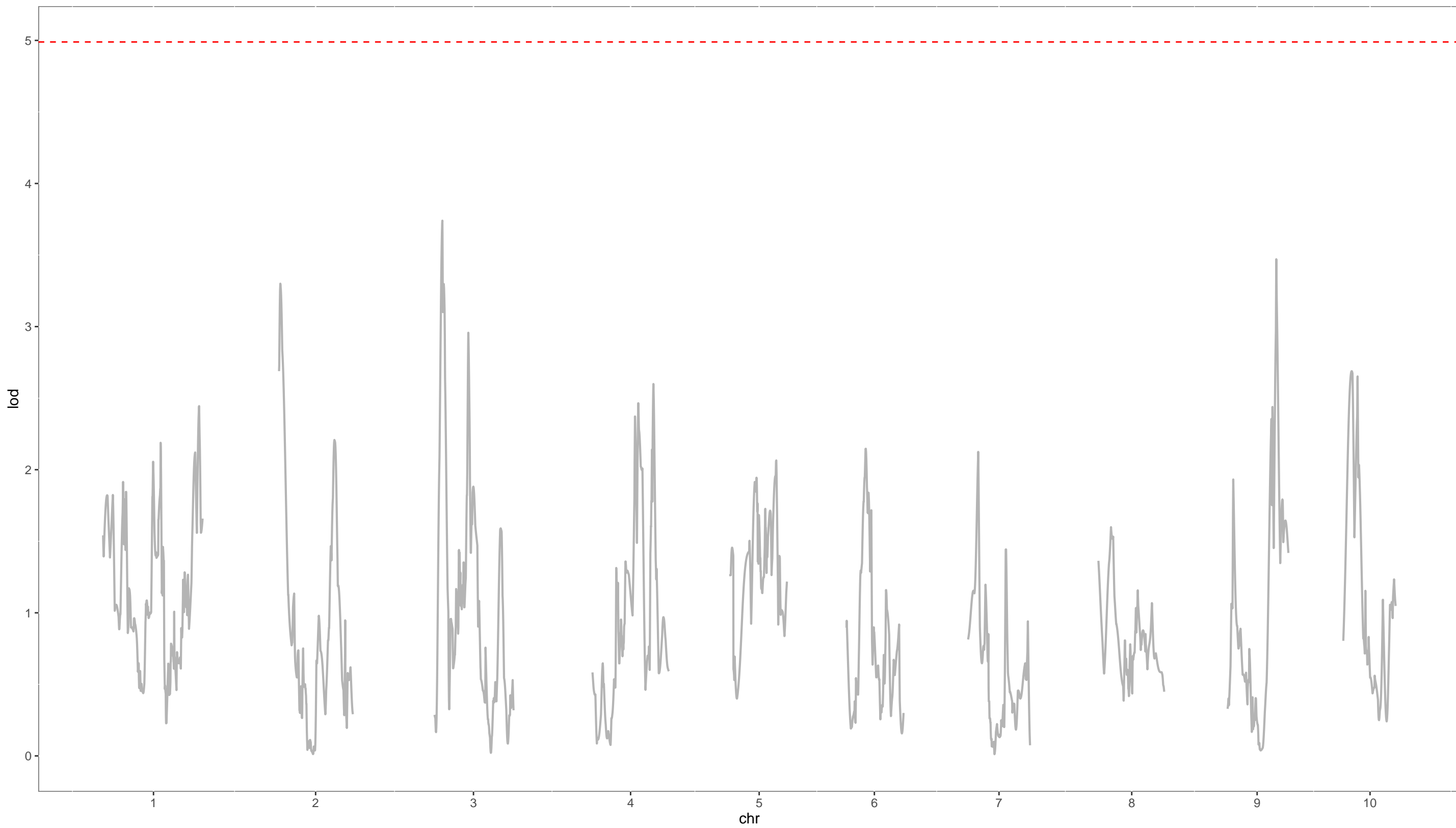
QTL analysis for int\_additive covariate for Ca\_ratio.f



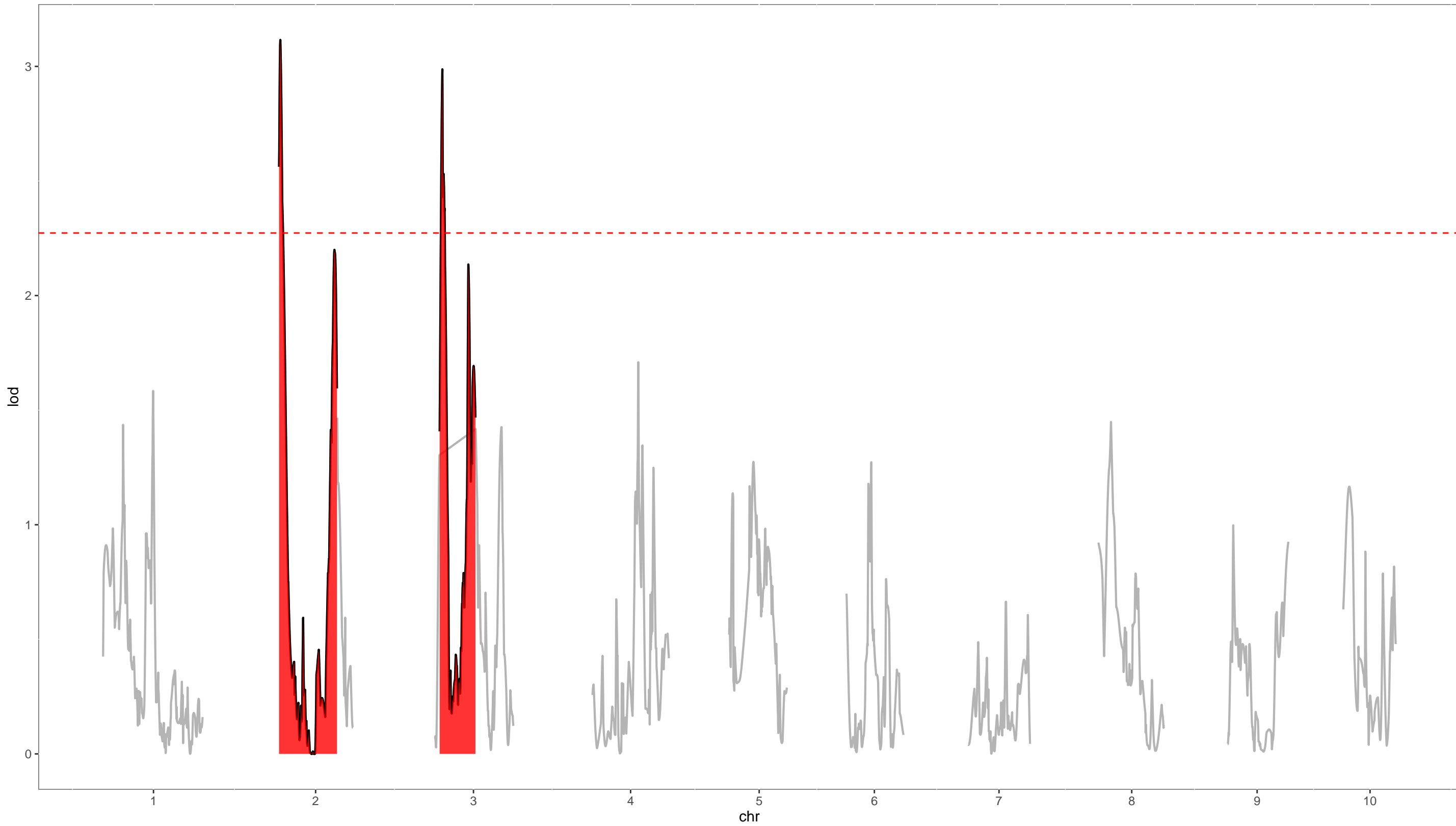
## QTL analysis for int\_additive covariate for Ca\_ratio.i



## QTL analysis for int\_additive covariate for Ca\_seed.f

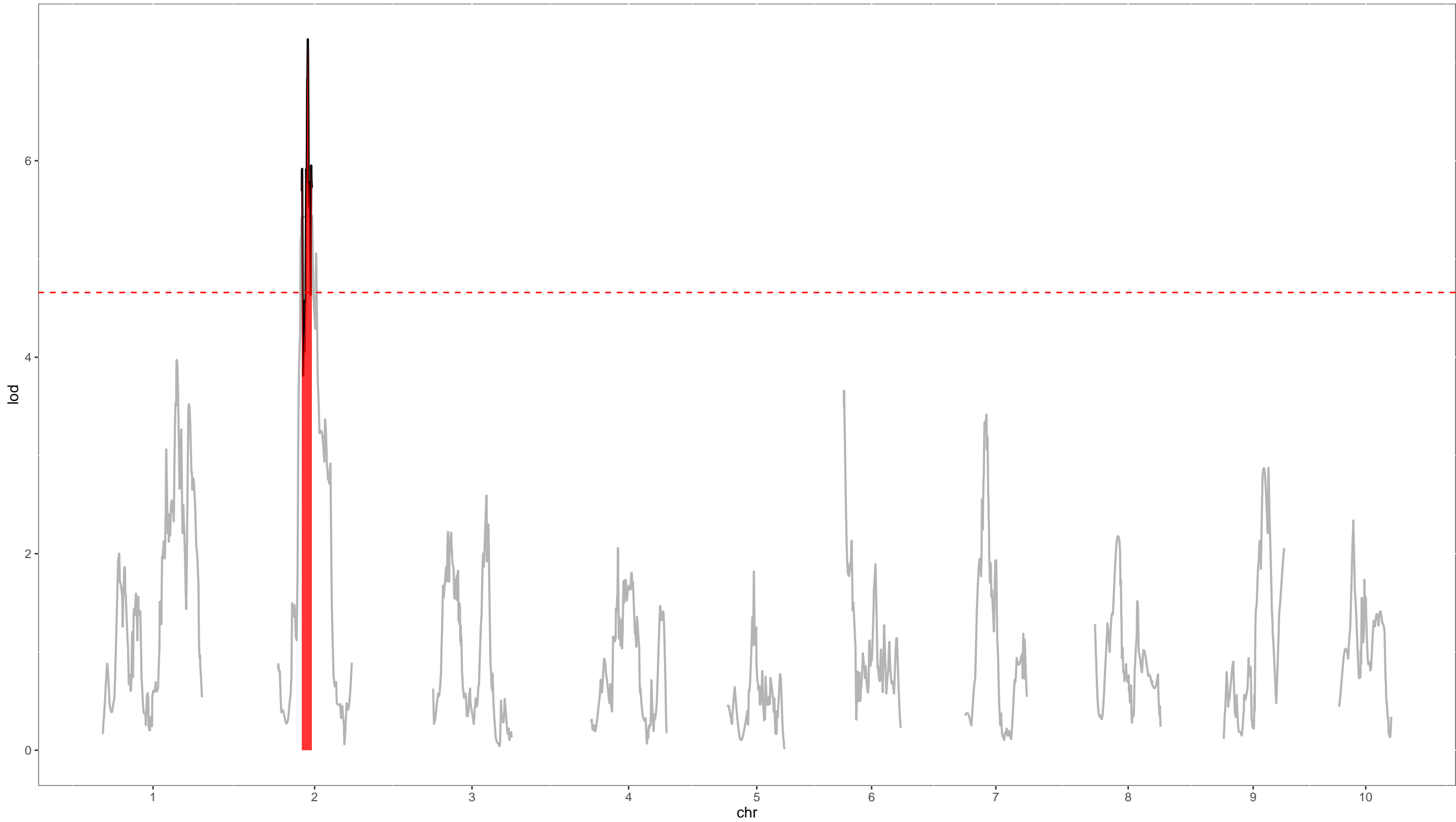


QTL analysis for int\_additive covariate for Ca\_seed.i

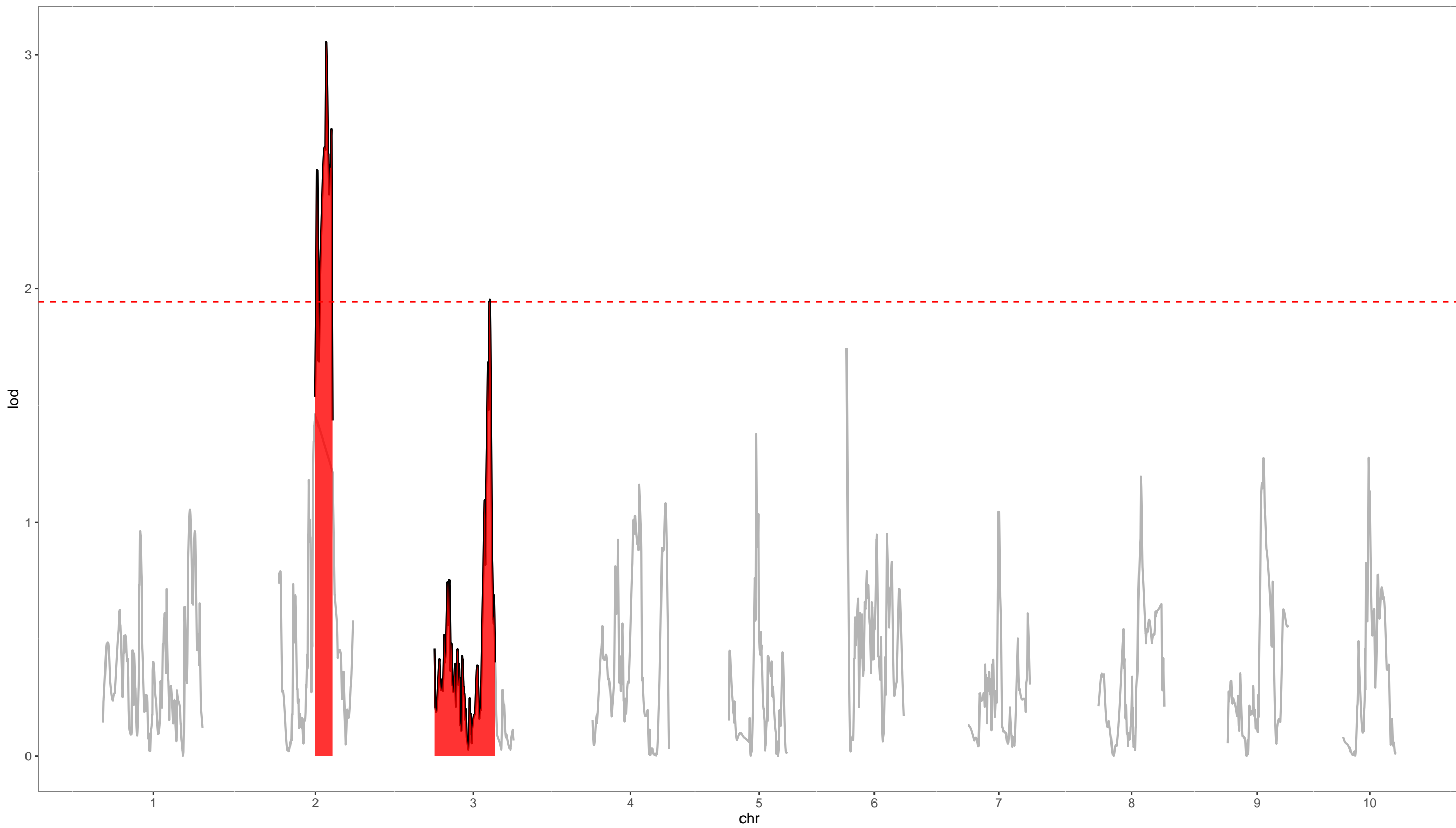




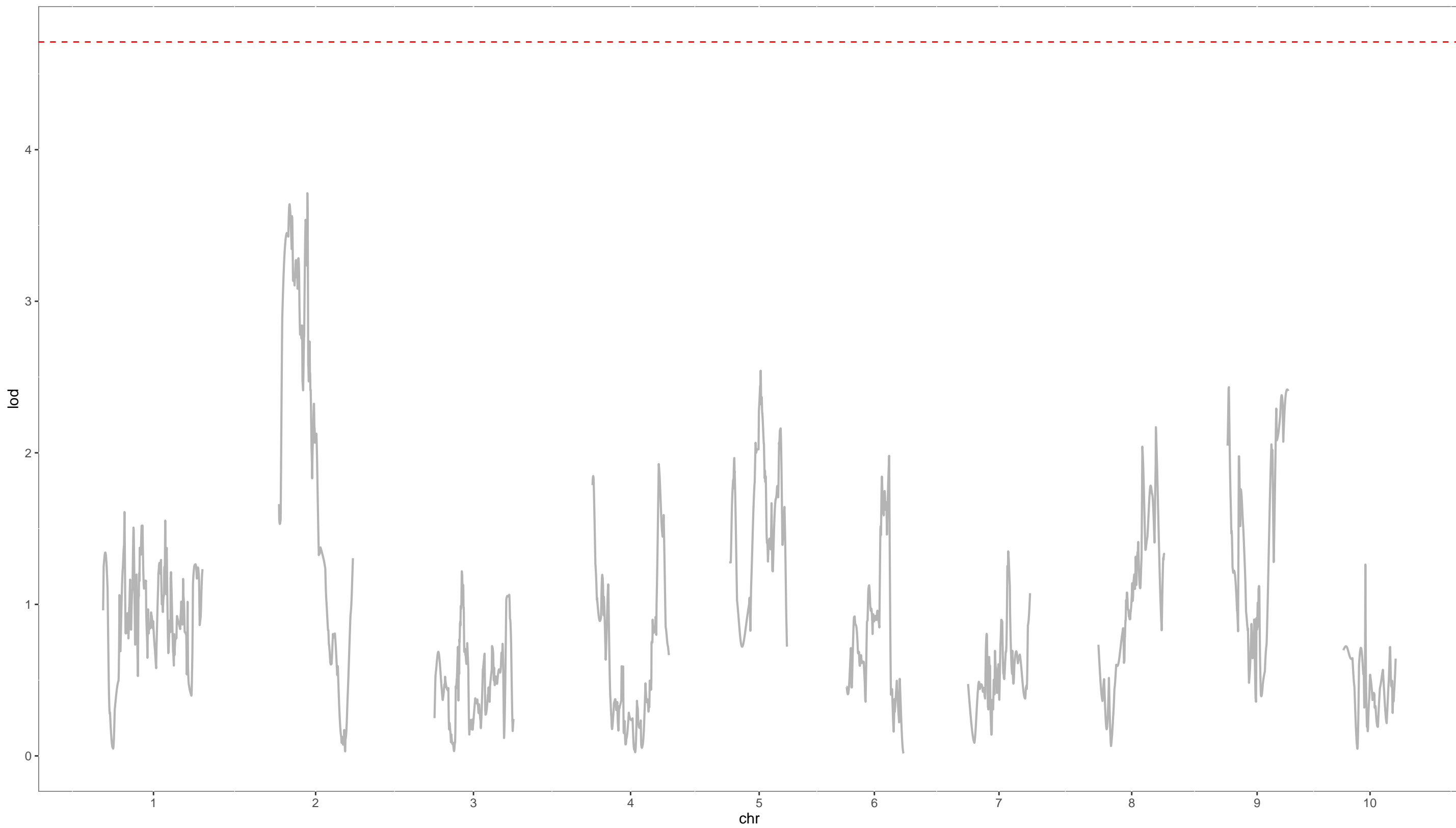
QTL analysis for int\_additive covariate for Cd\_leaf.f



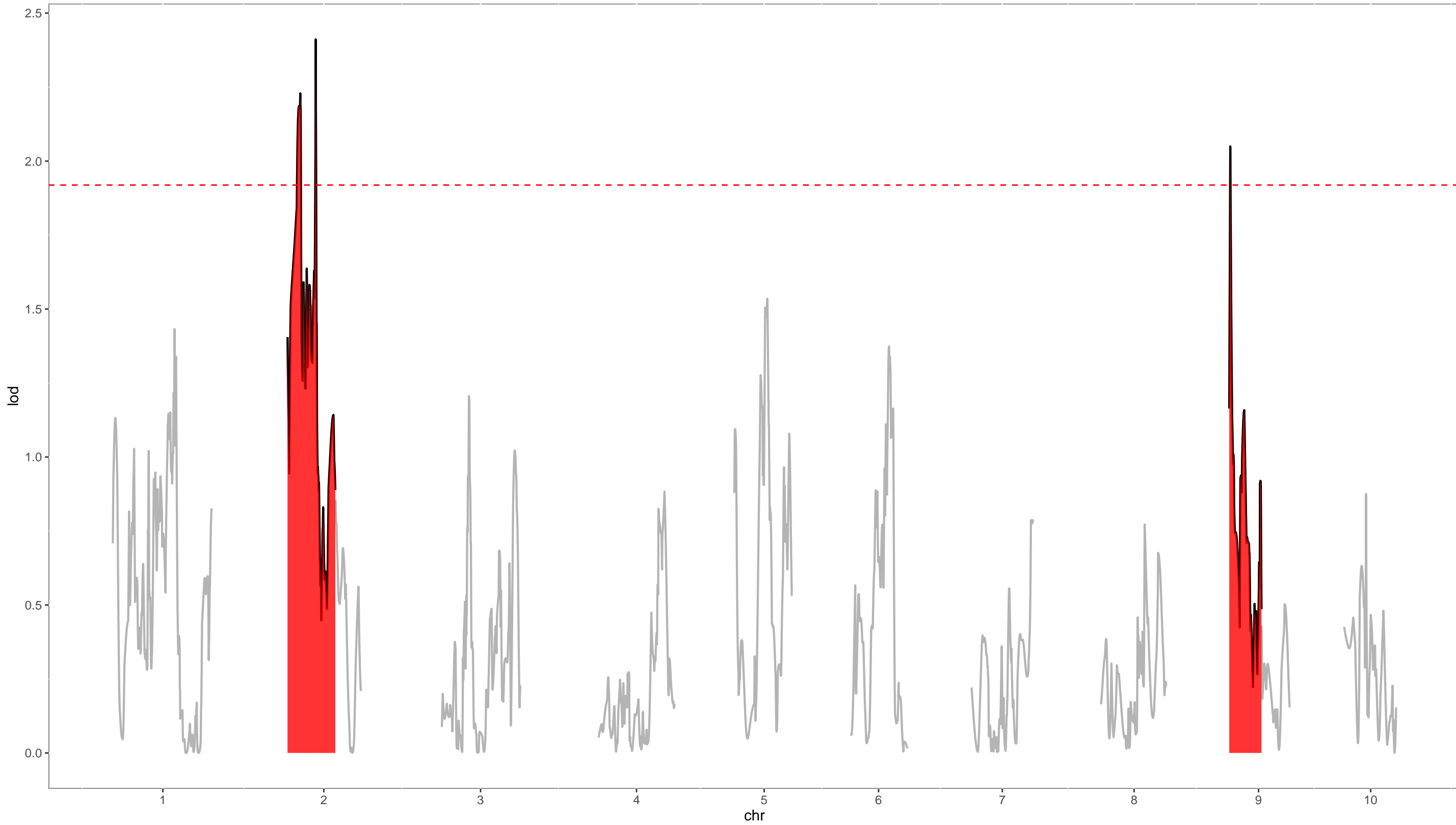
## QTL analysis for int\_additive covariate for Cd\_leaf.i



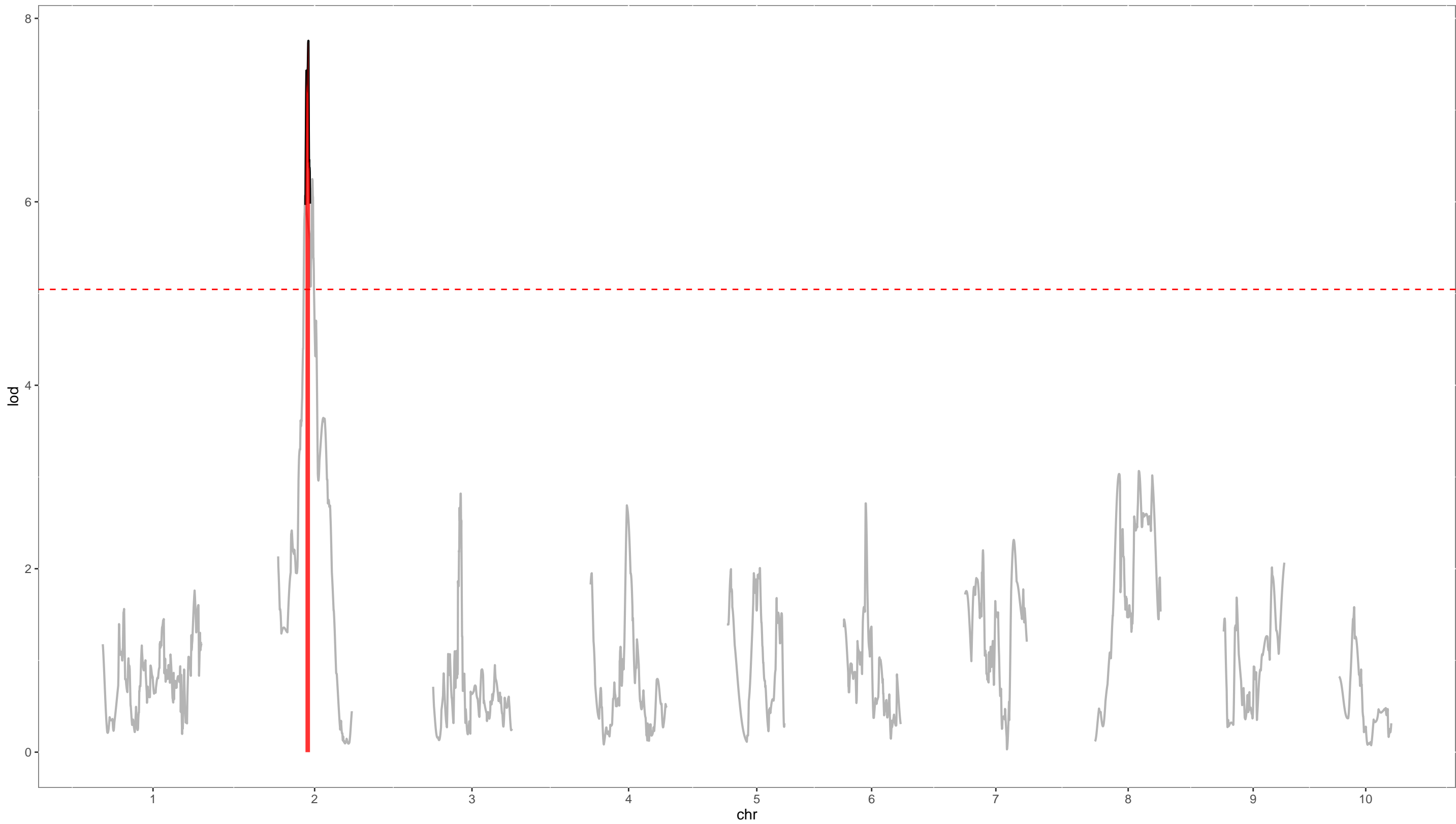
QTL analysis for int\_additive covariate for Cd\_ratio.f



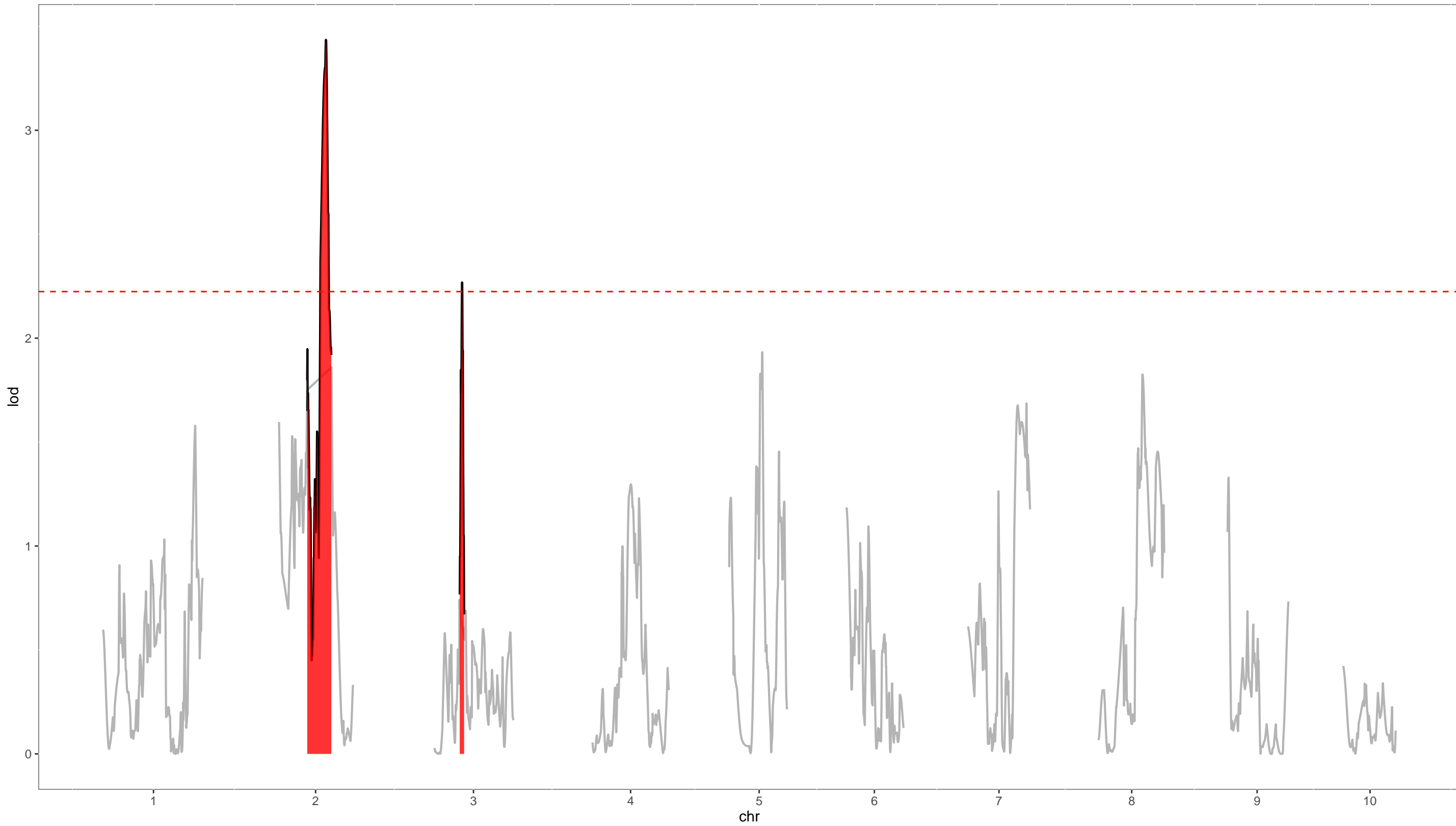
## QTL analysis for int\_additive covariate for Cd\_ratio.i



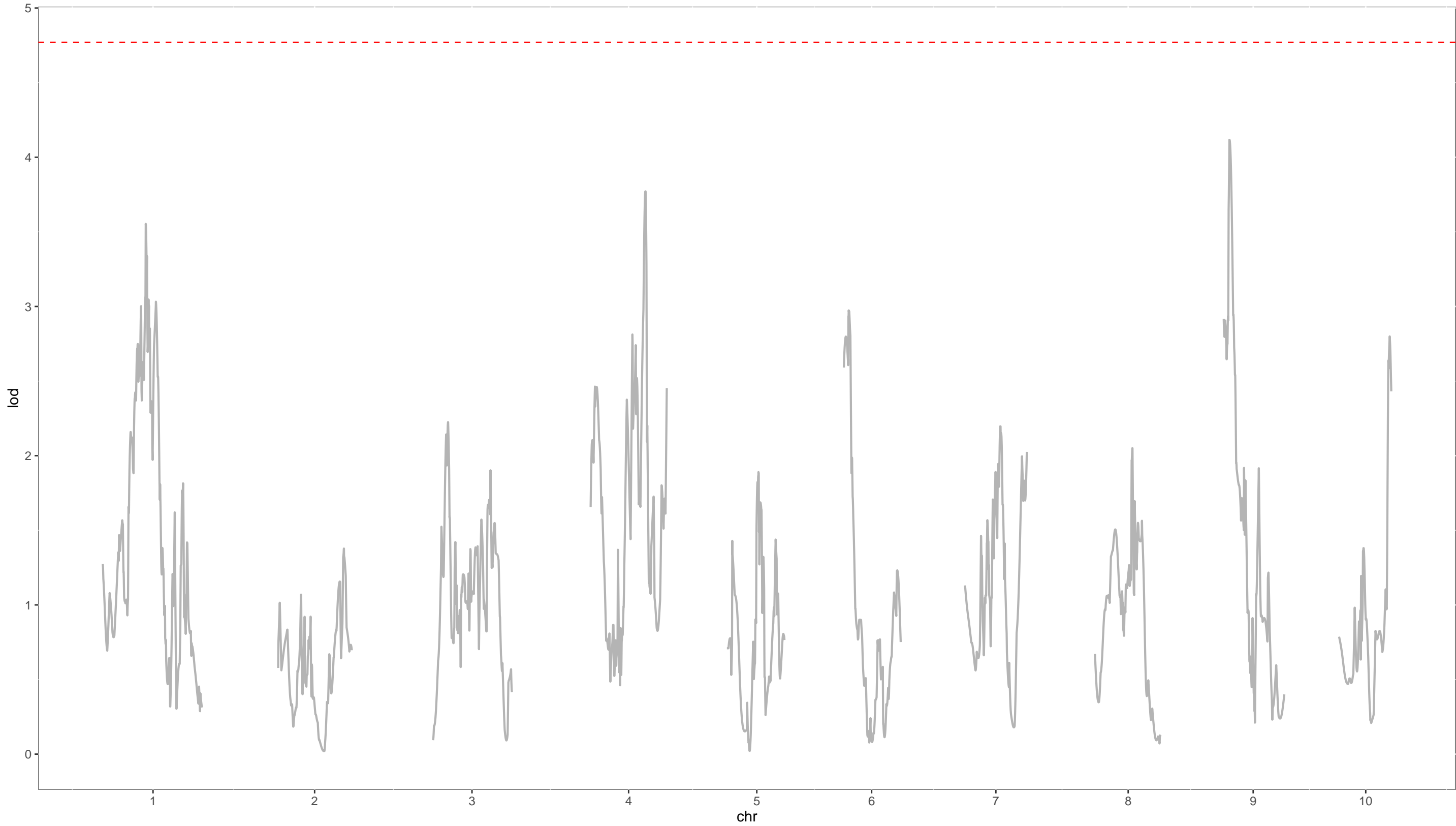
QTL analysis for int\_additive covariate for Cd\_seed.f



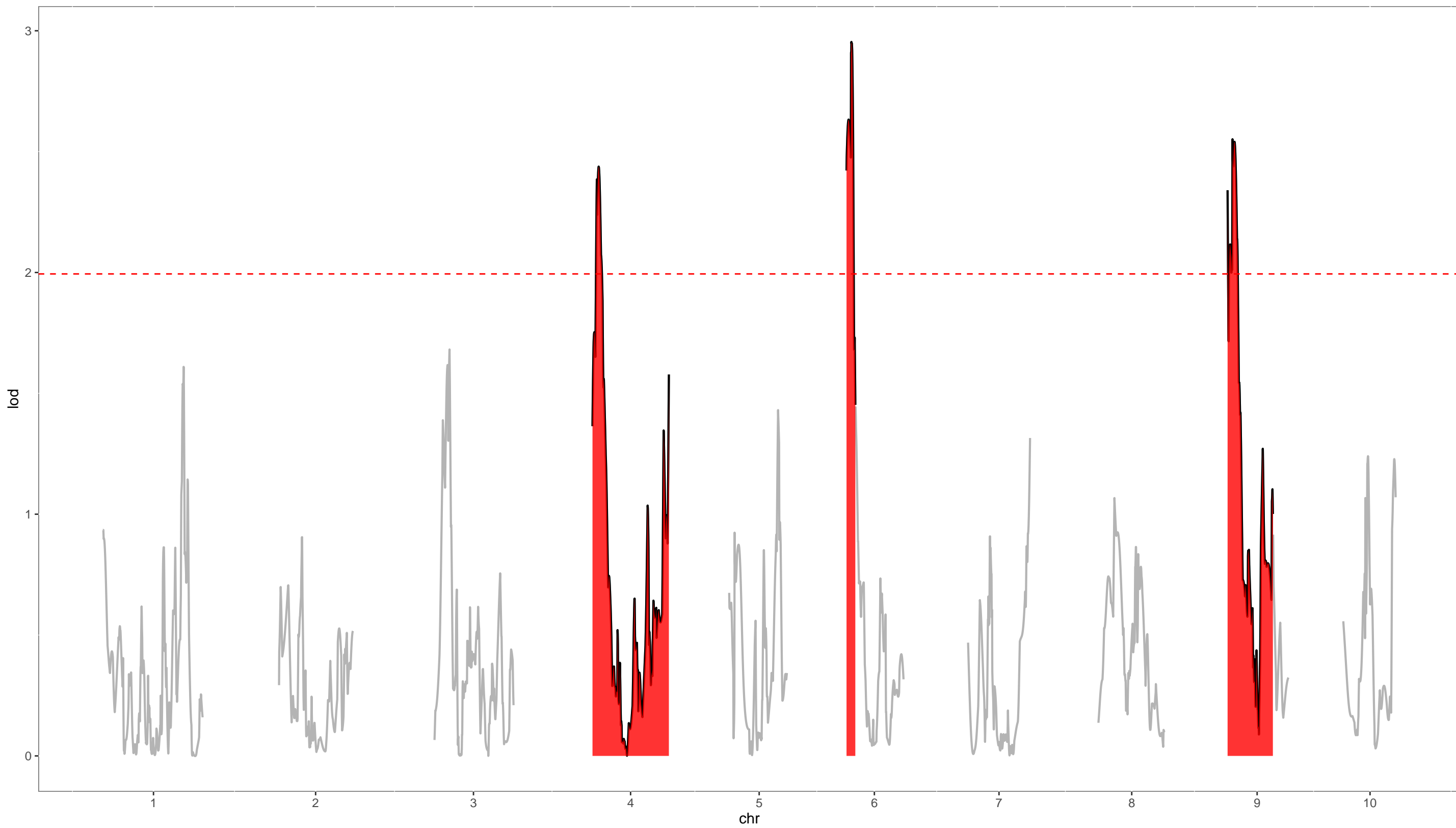
QTL analysis for int\_additive covariate for Cd\_seed.i



QTL analysis for int\_additive covariate for Co\_leaf.f

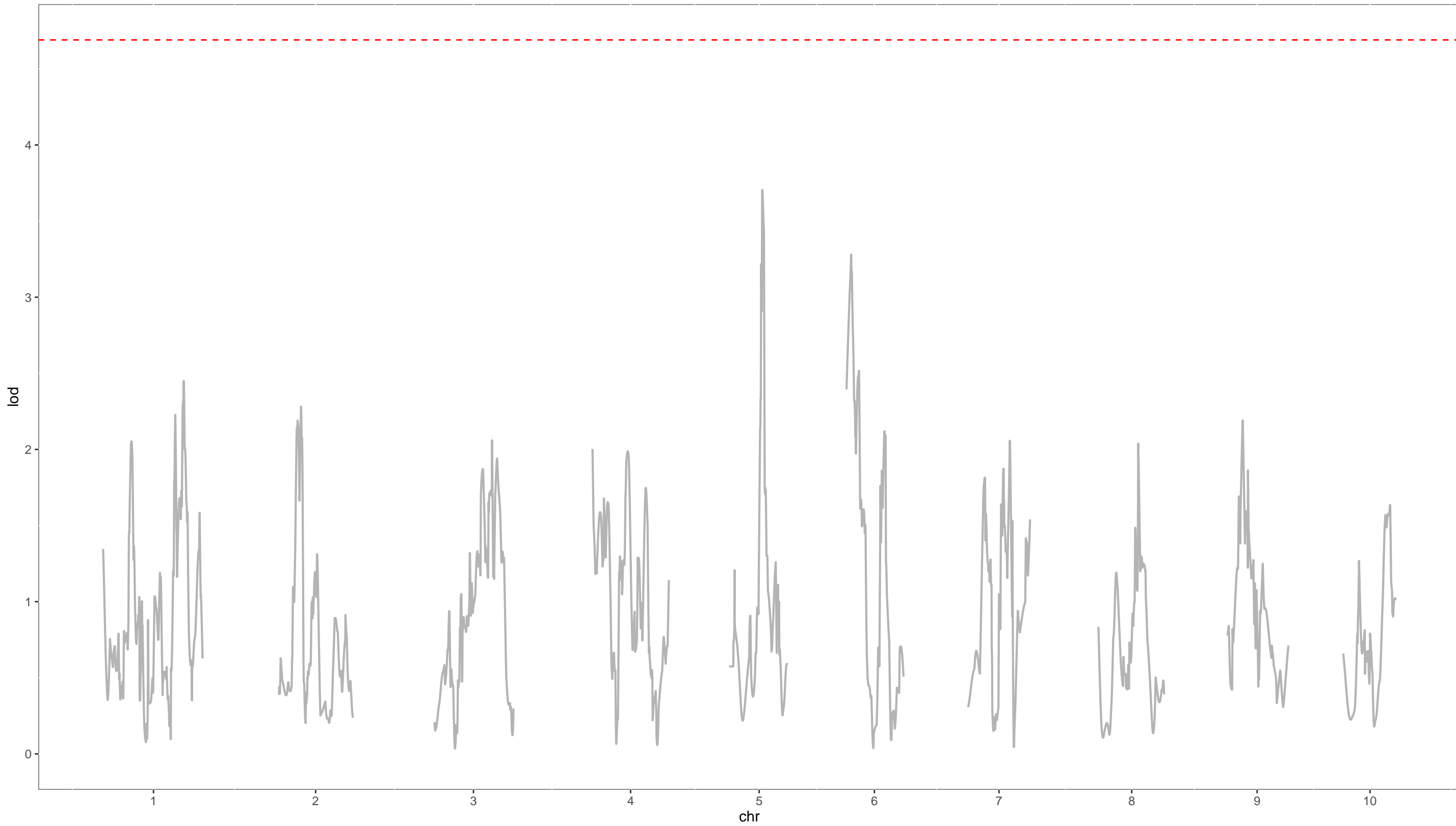


QTL analysis for int\_additive covariate for Co\_leaf.i

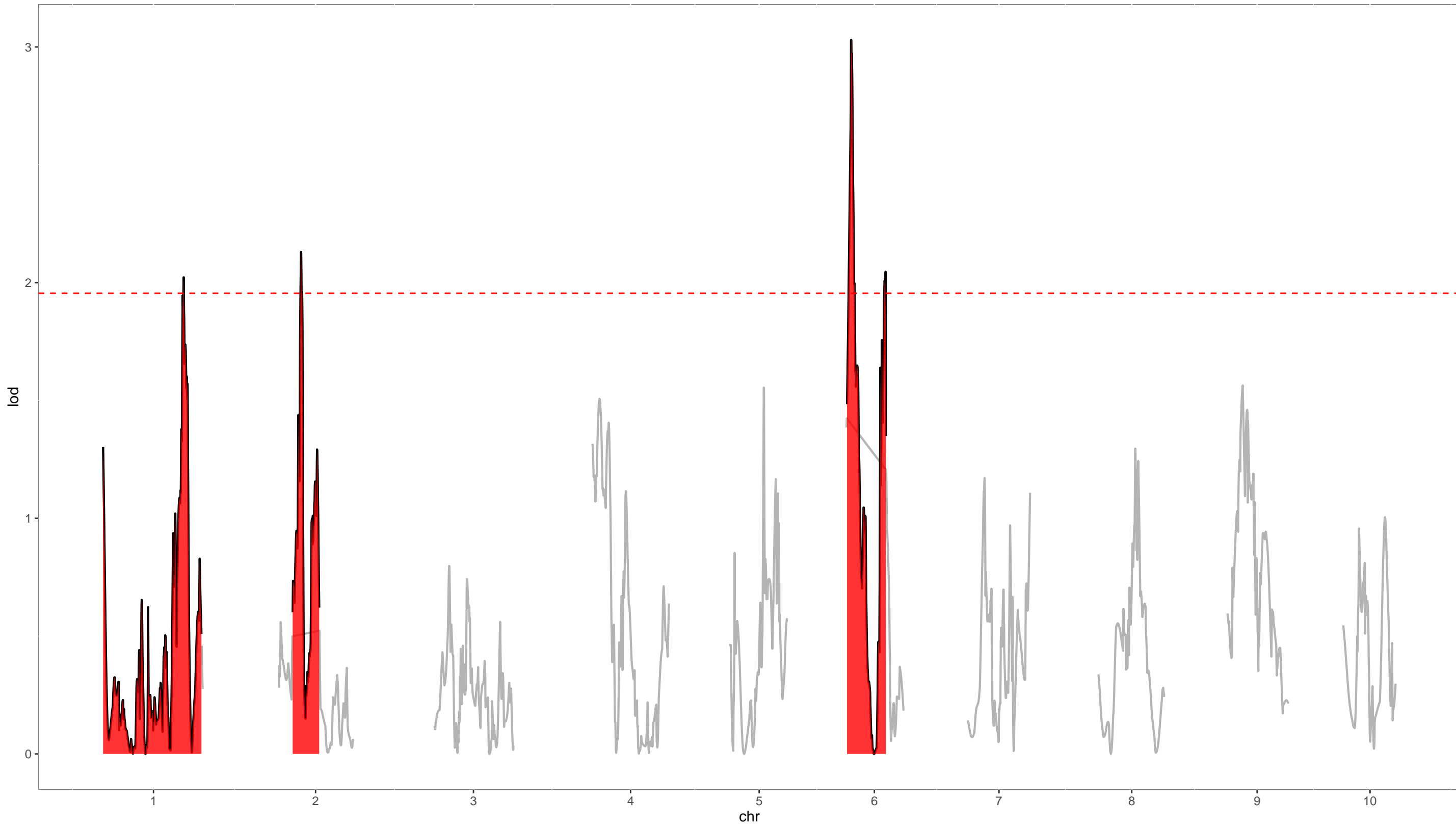




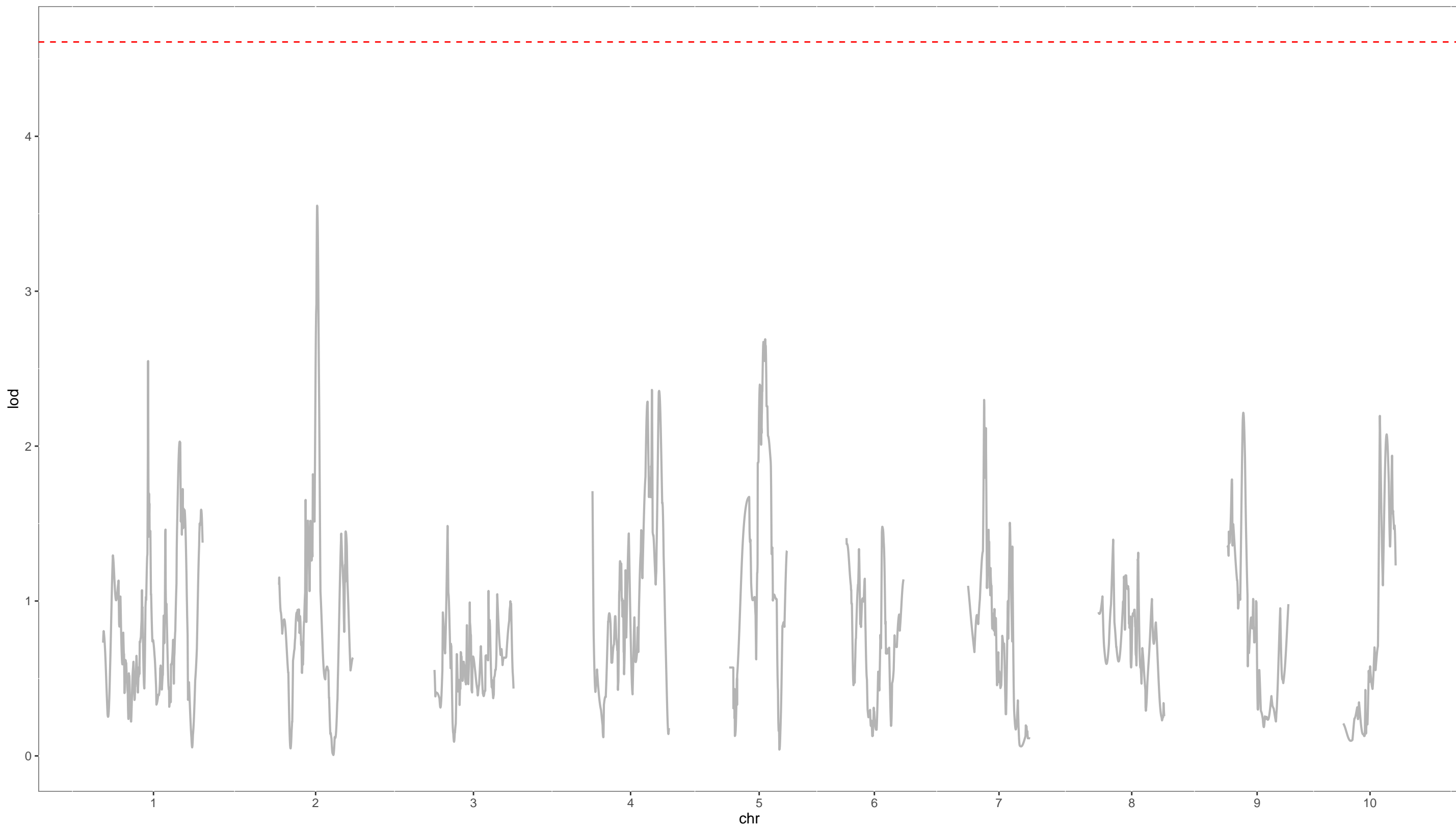
QTL analysis for int\_additive covariate for Co\_ratio.f



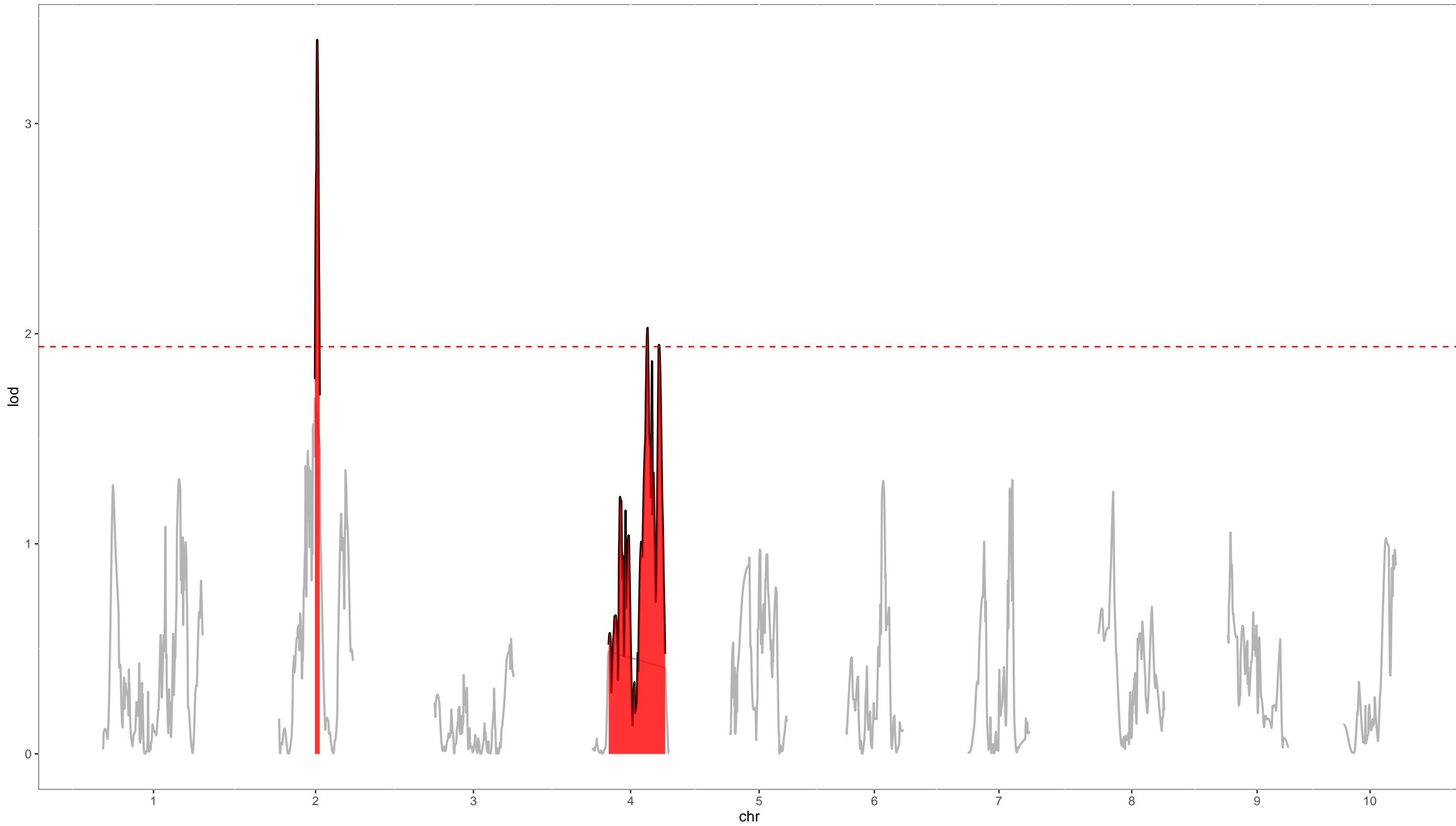
QTL analysis for int\_additive covariate for Co\_ratio.i



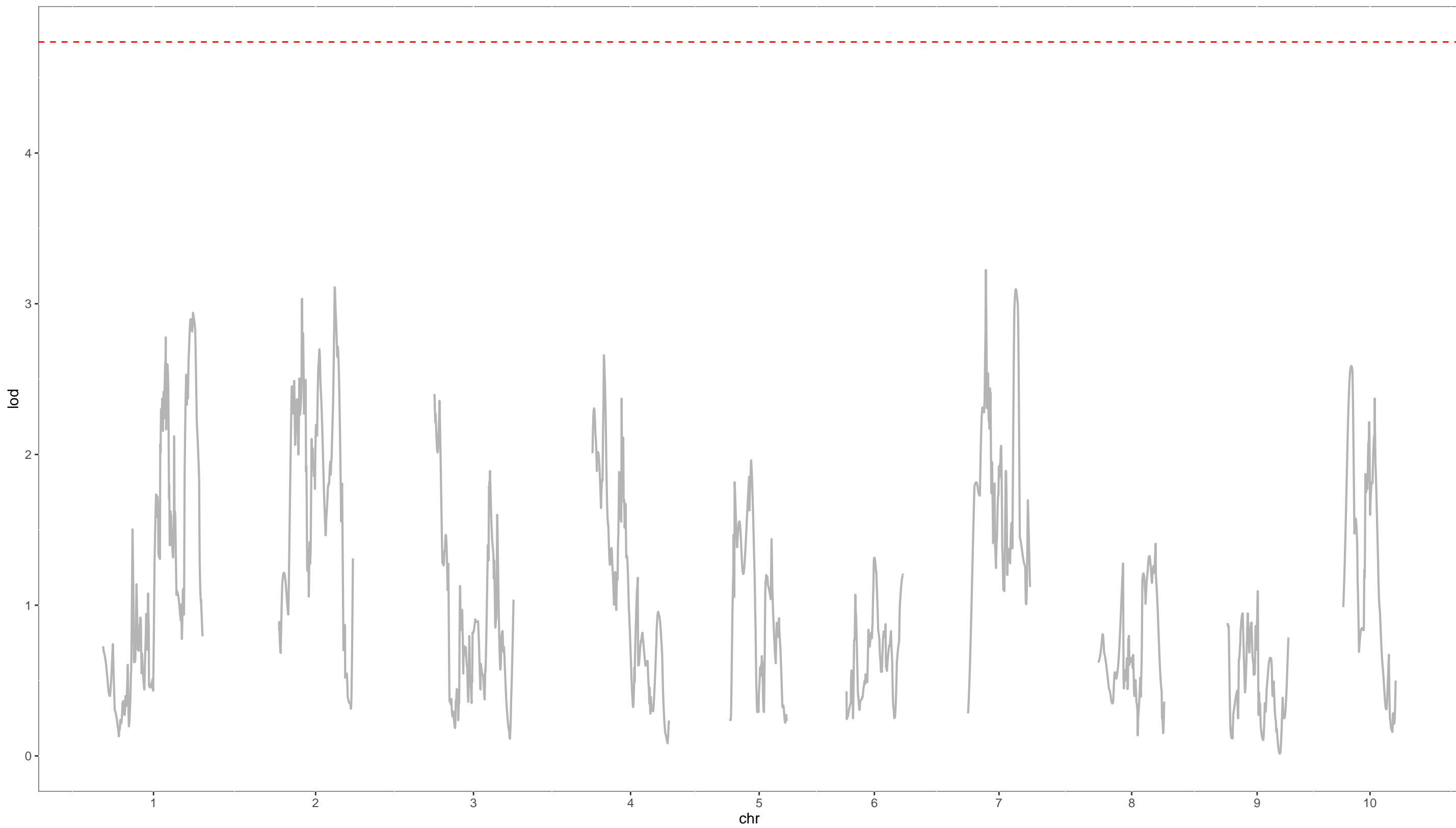
QTL analysis for int\_additive covariate for Co\_seed.f



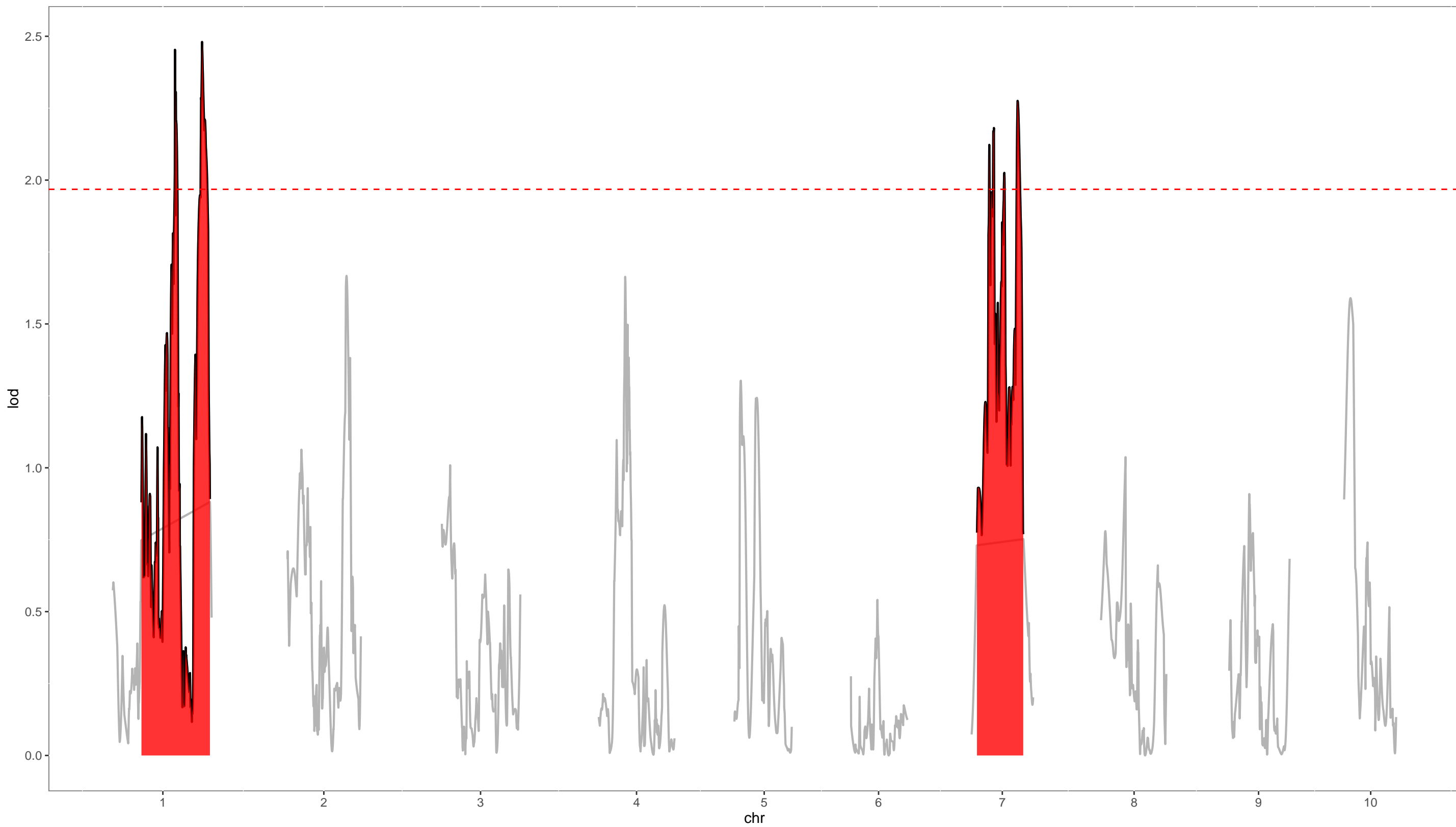
QTL analysis for int\_additive covariate for Co\_seed.i



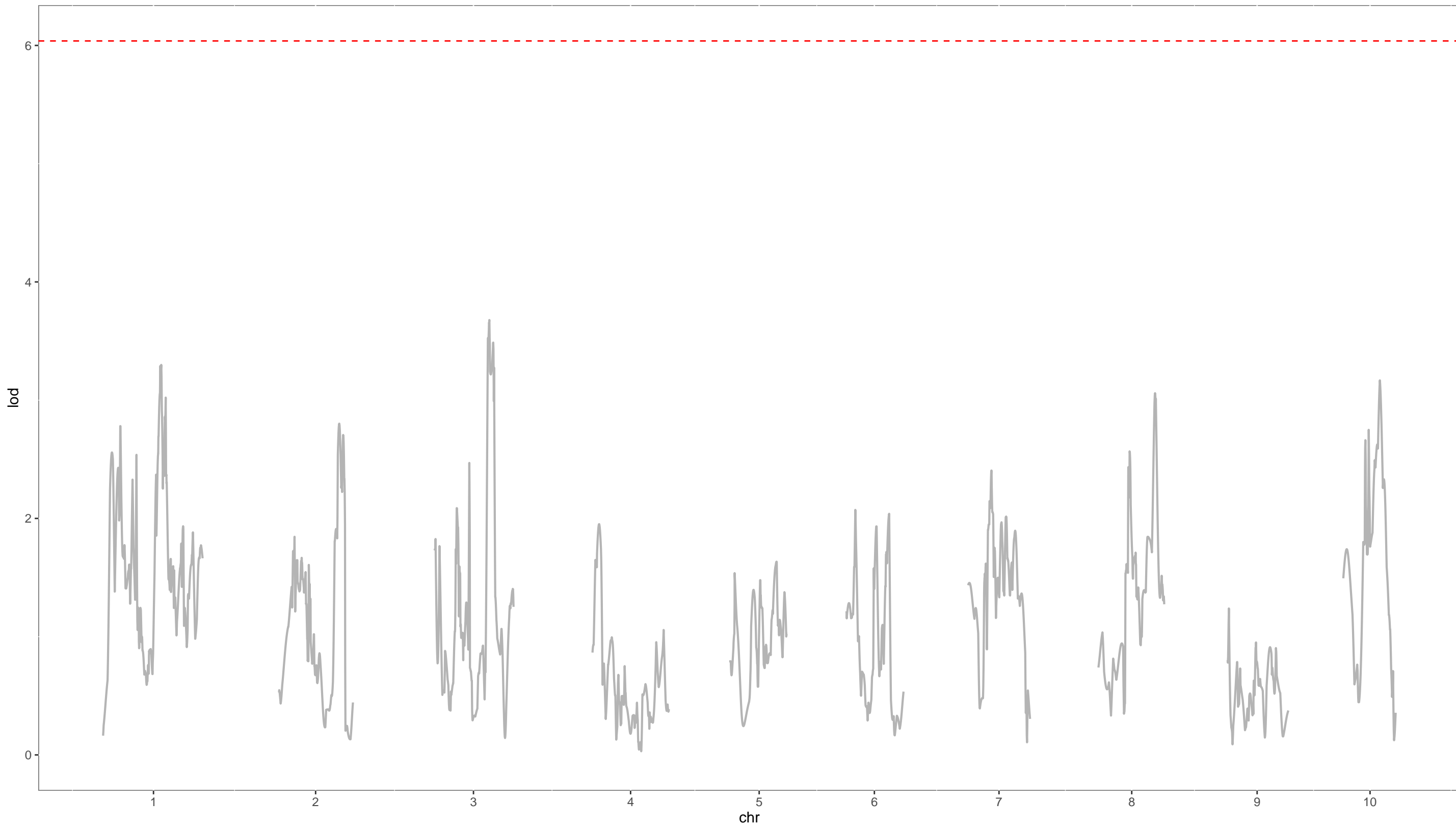
QTL analysis for int\_additive covariate for Cu\_leaf.f



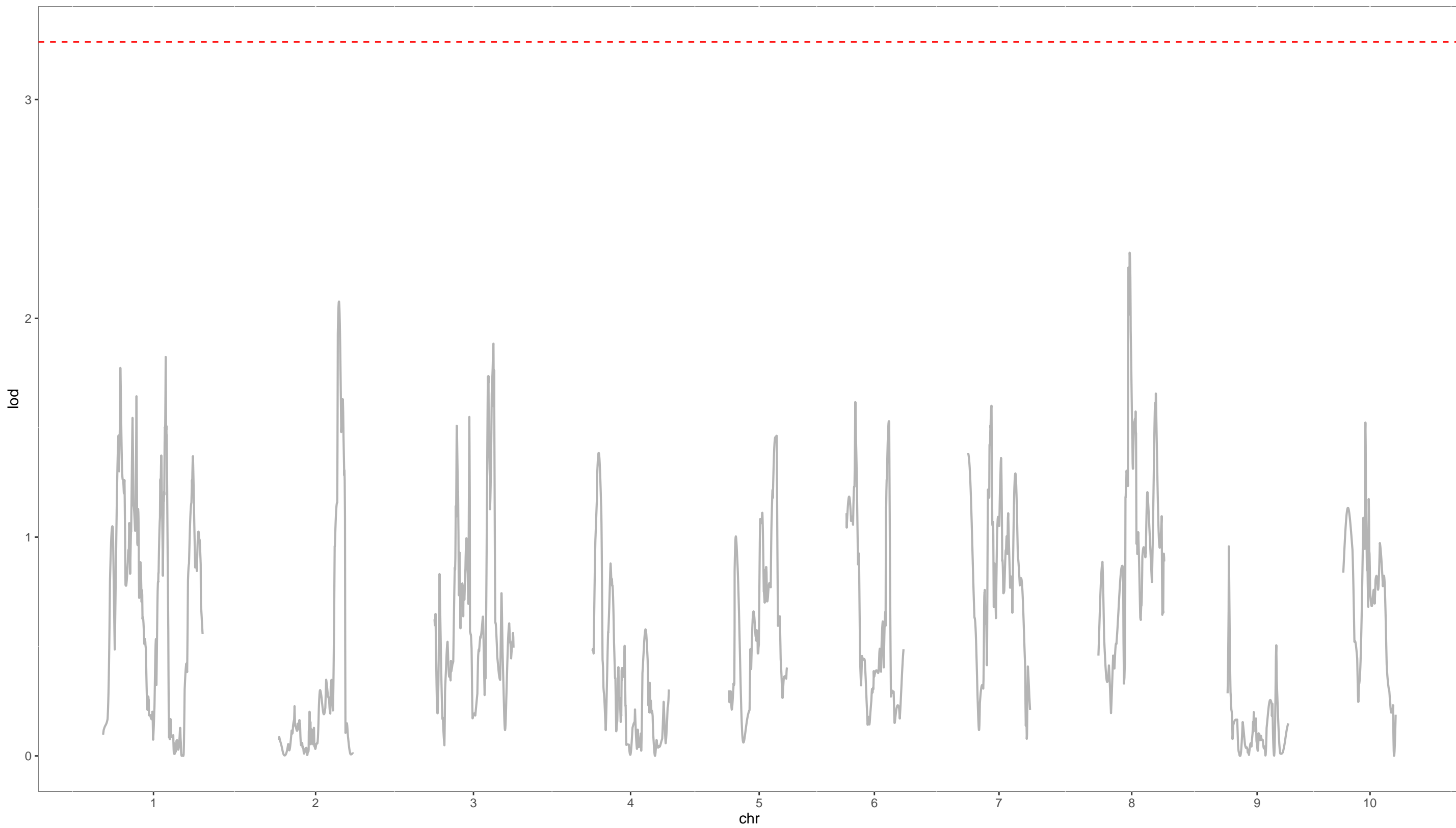
## QTL analysis for int\_additive covariate for Cu\_leaf.i



QTL analysis for int\_additive covariate for Cu\_ratio.f

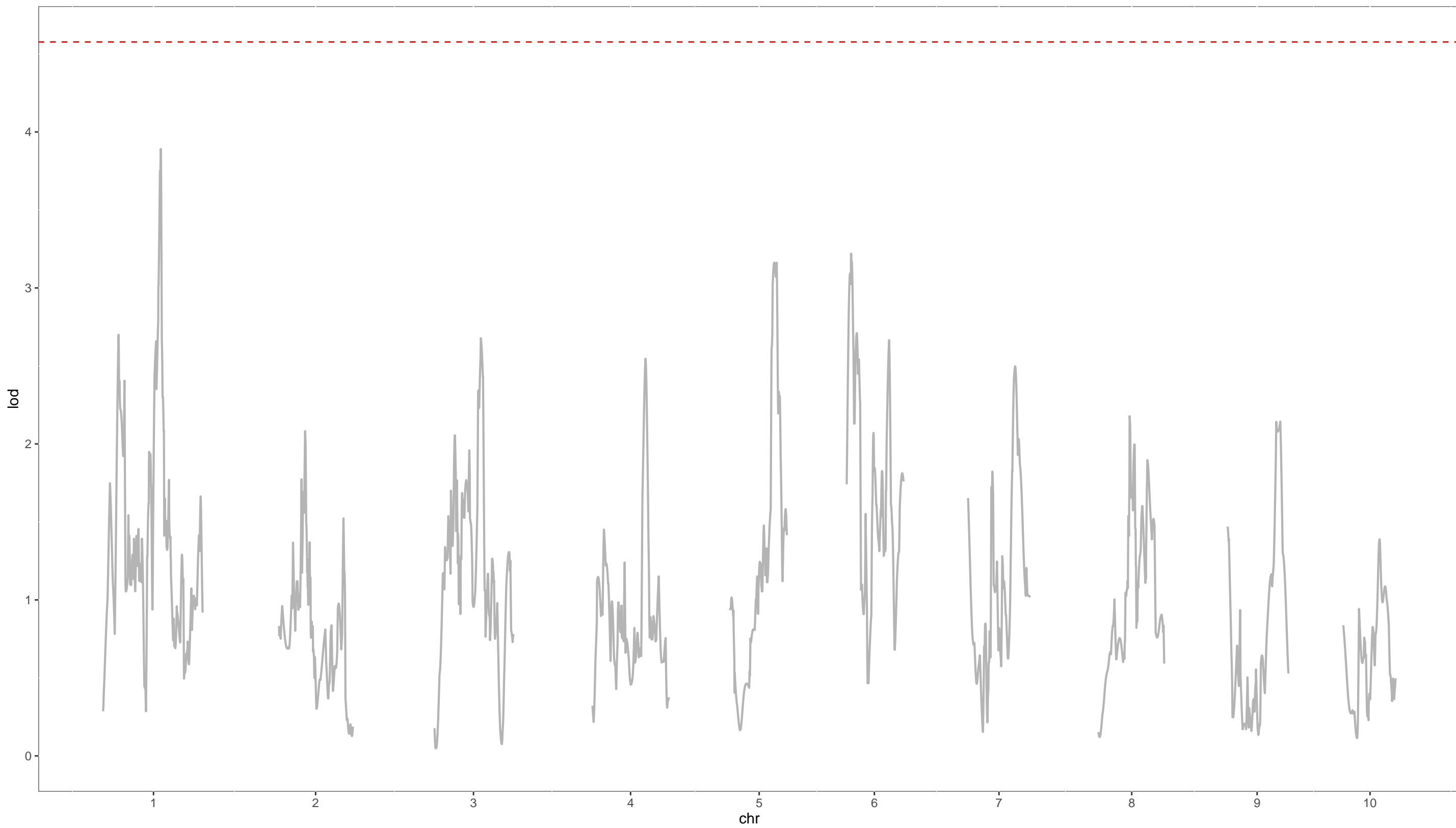


QTL analysis for int\_additive covariate for Cu\_ratio.i

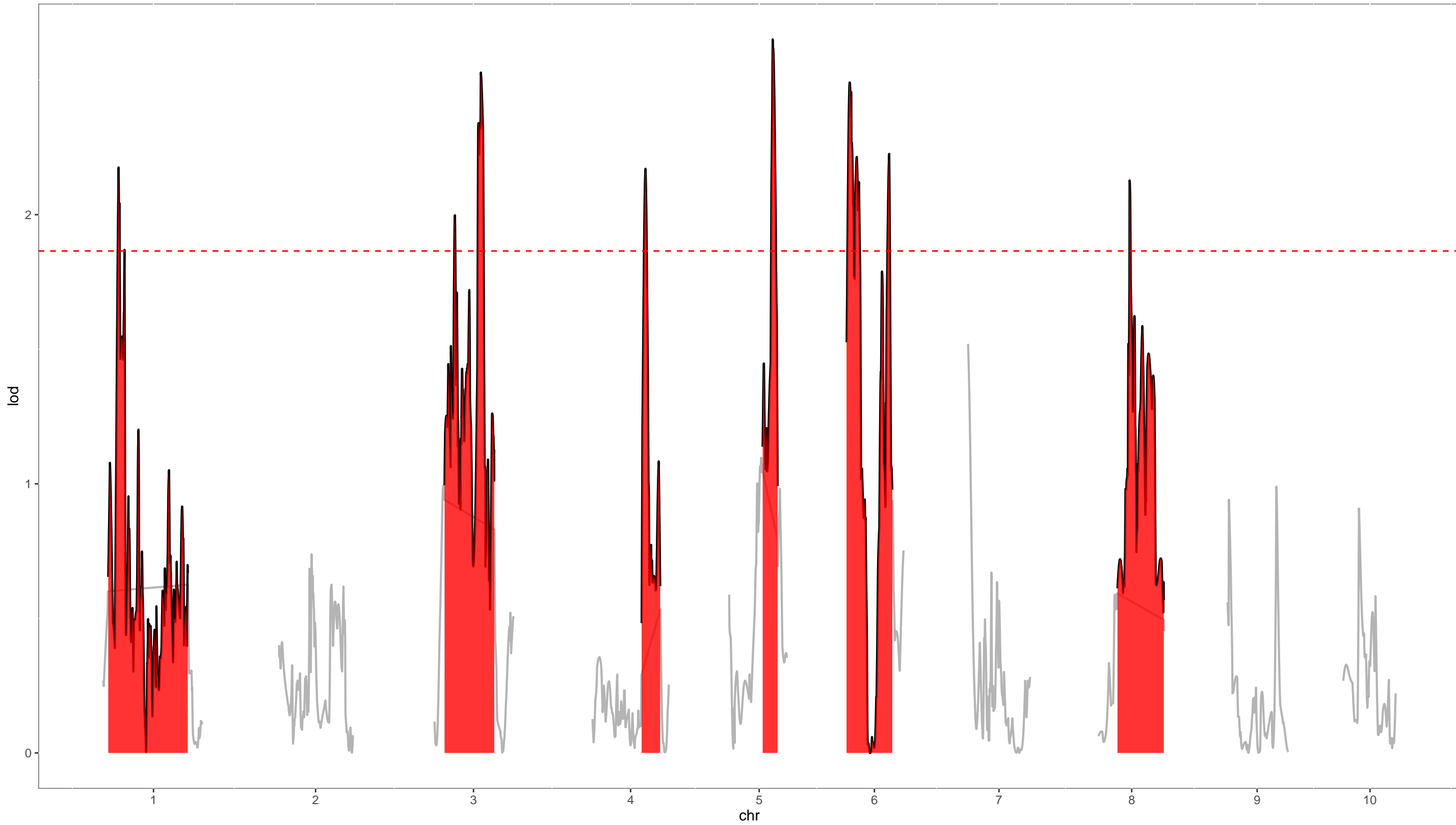




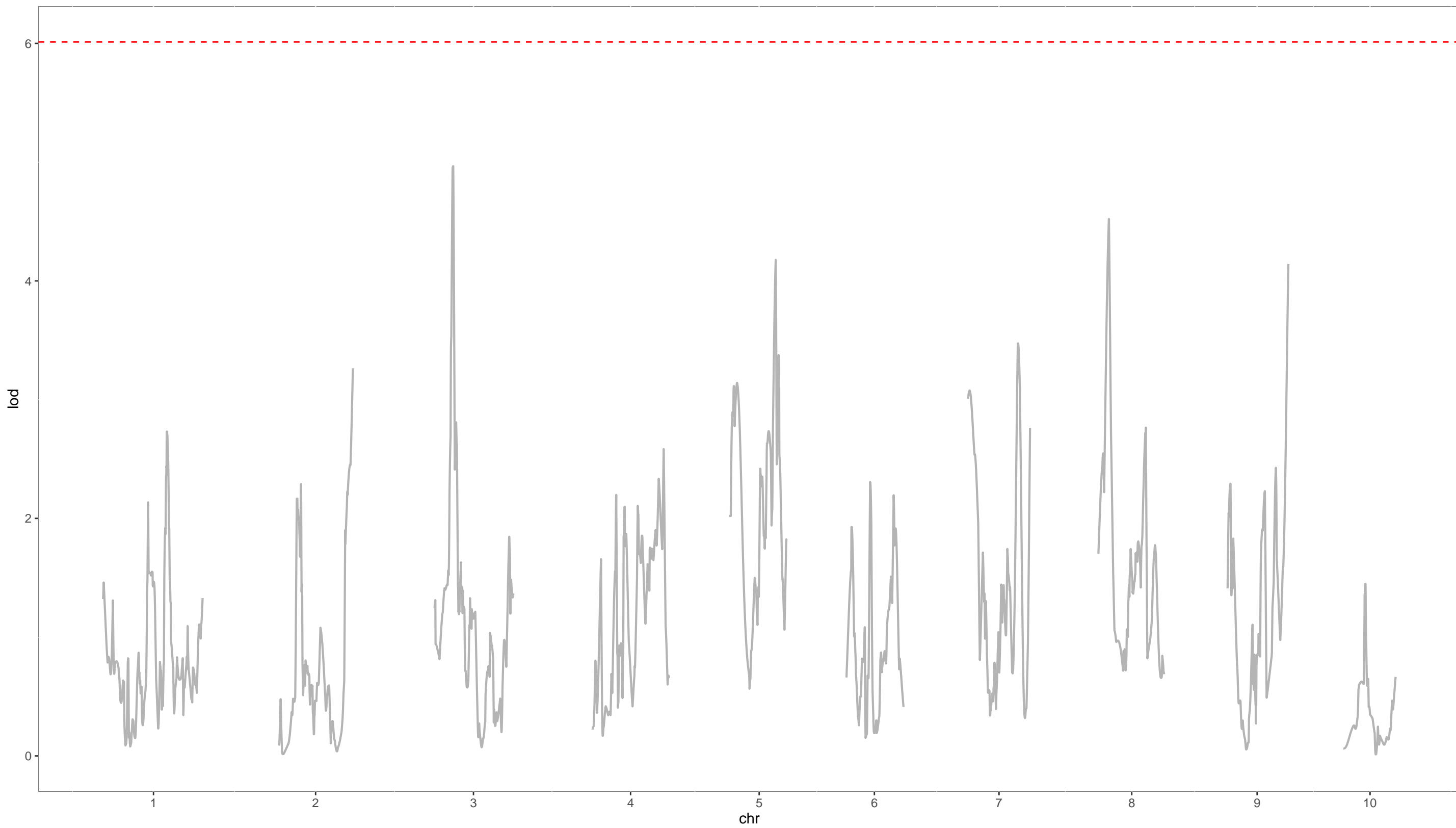
QTL analysis for int\_additive covariate for Cu\_seed.f



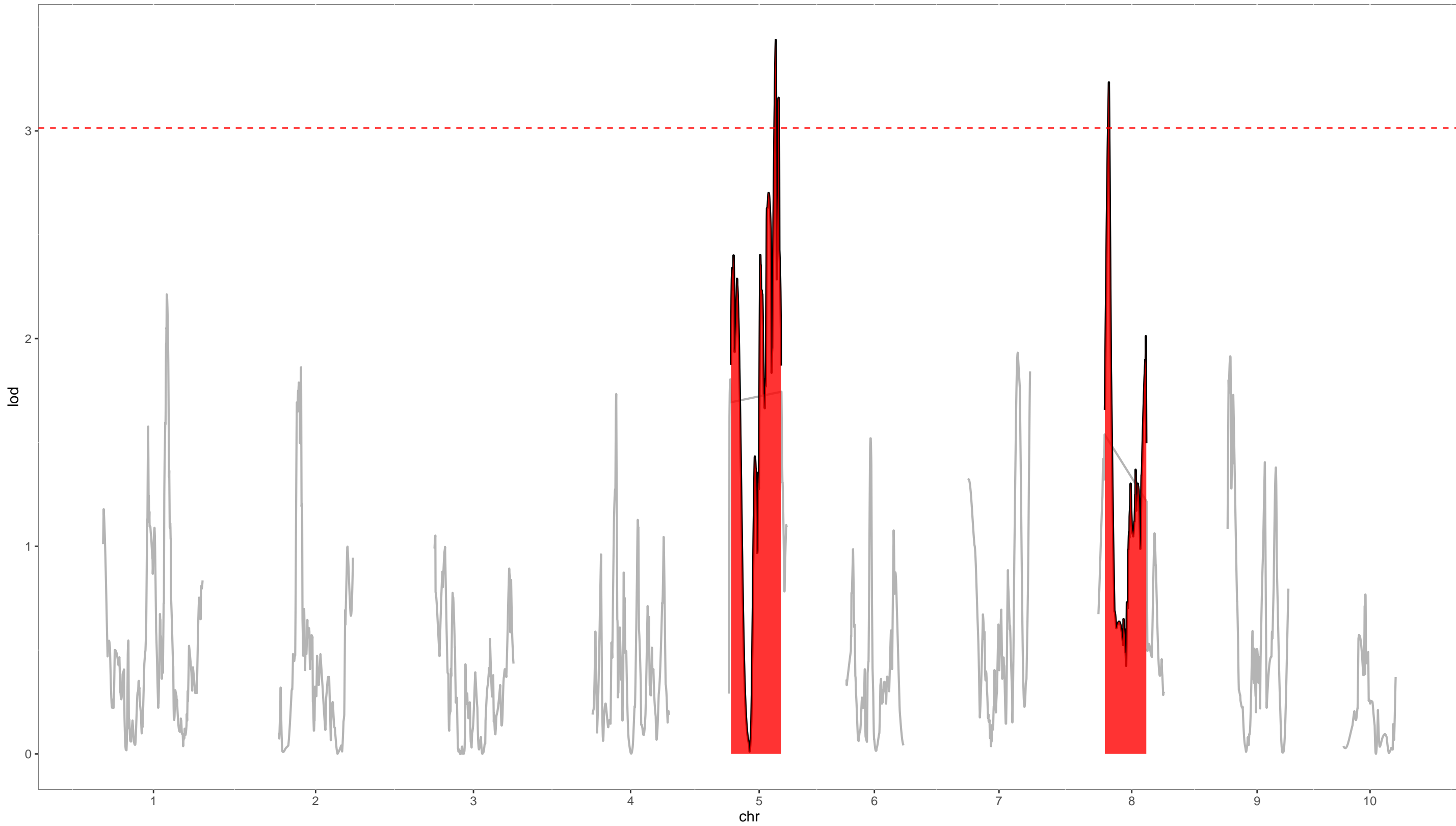
QTL analysis for int\_additive covariate for Cu\_seed.i



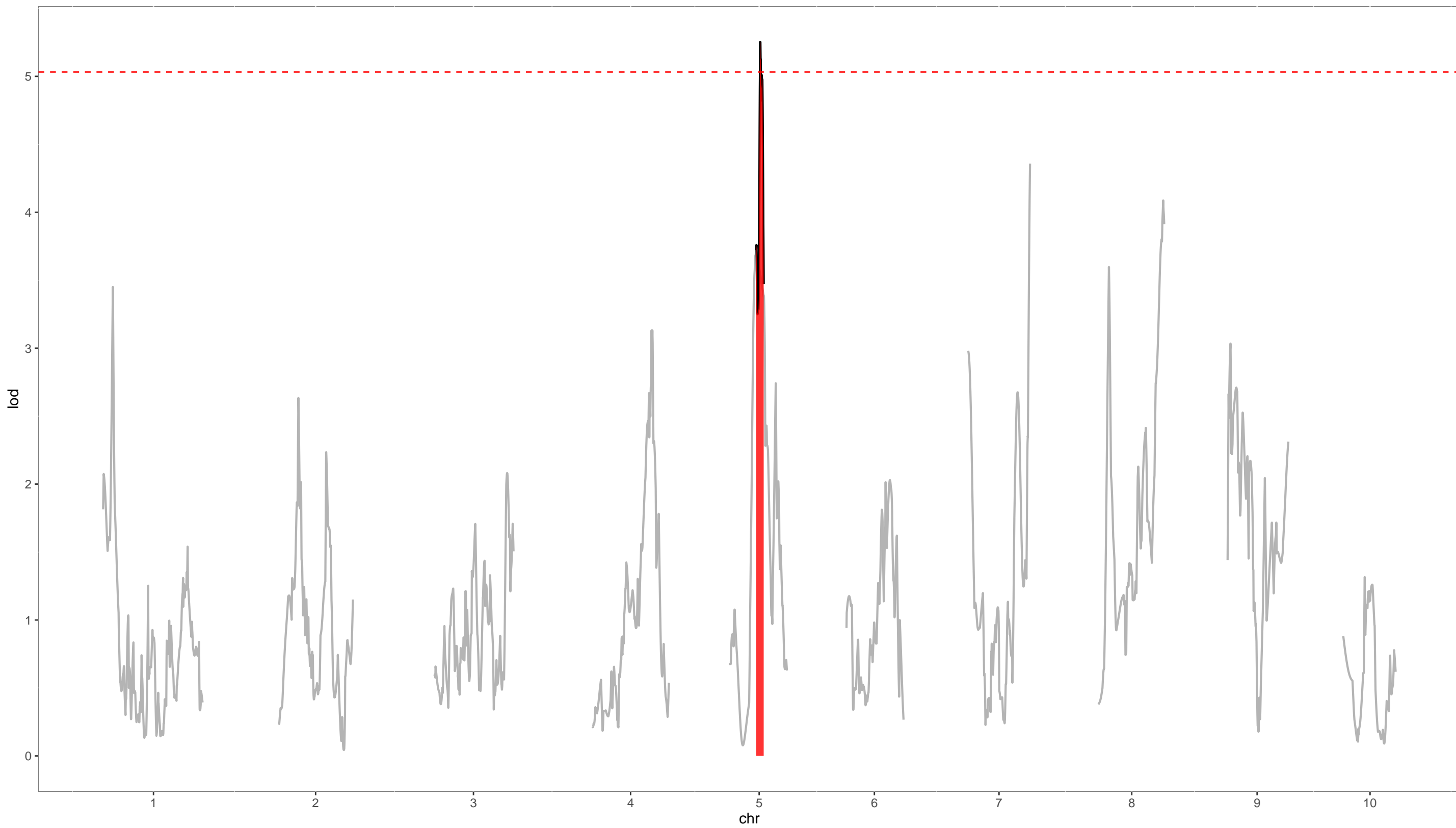
QTL analysis for int\_additive covariate for Fe\_leaf.f



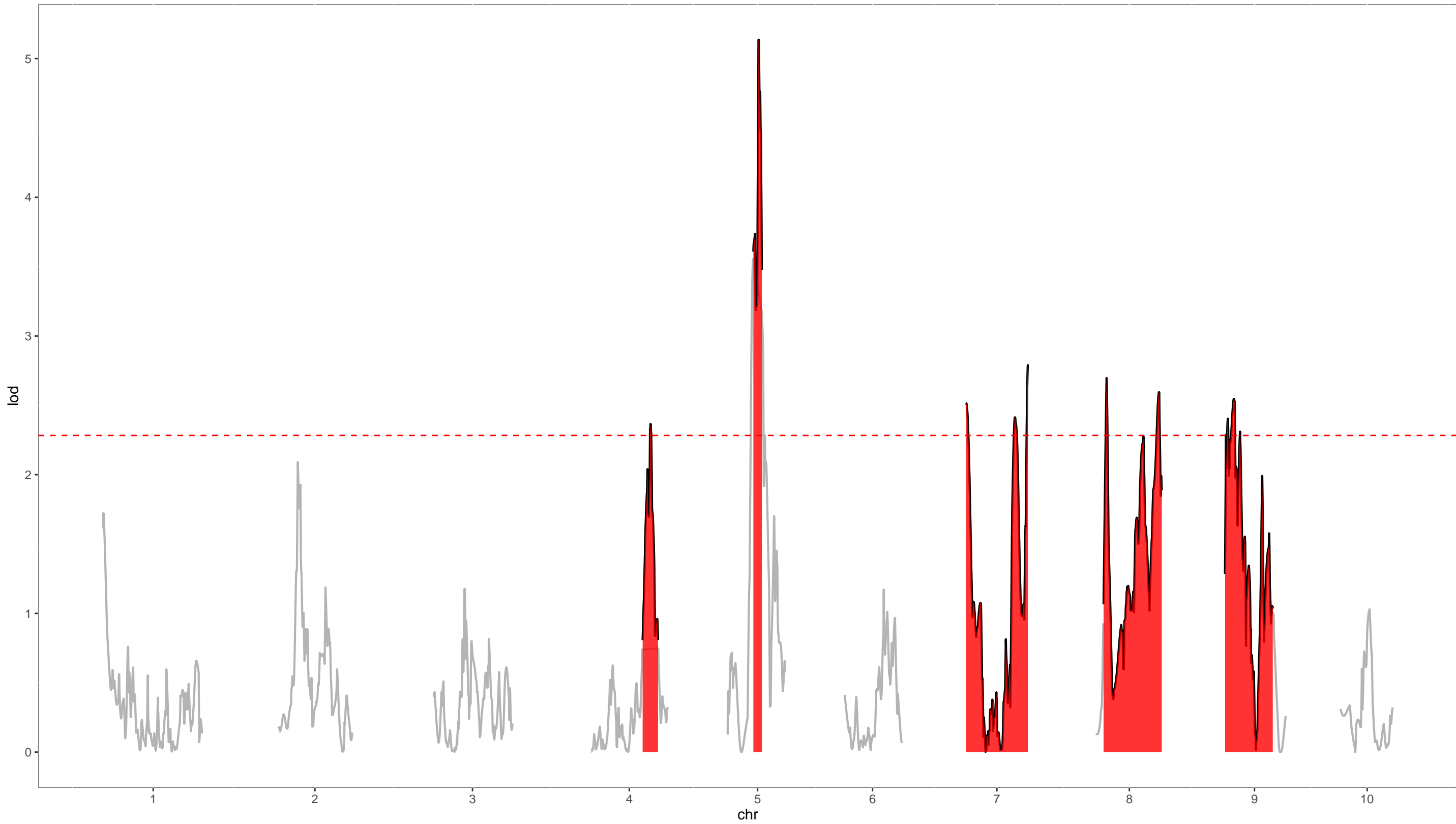
QTL analysis for int\_additive covariate for Fe\_leaf.i



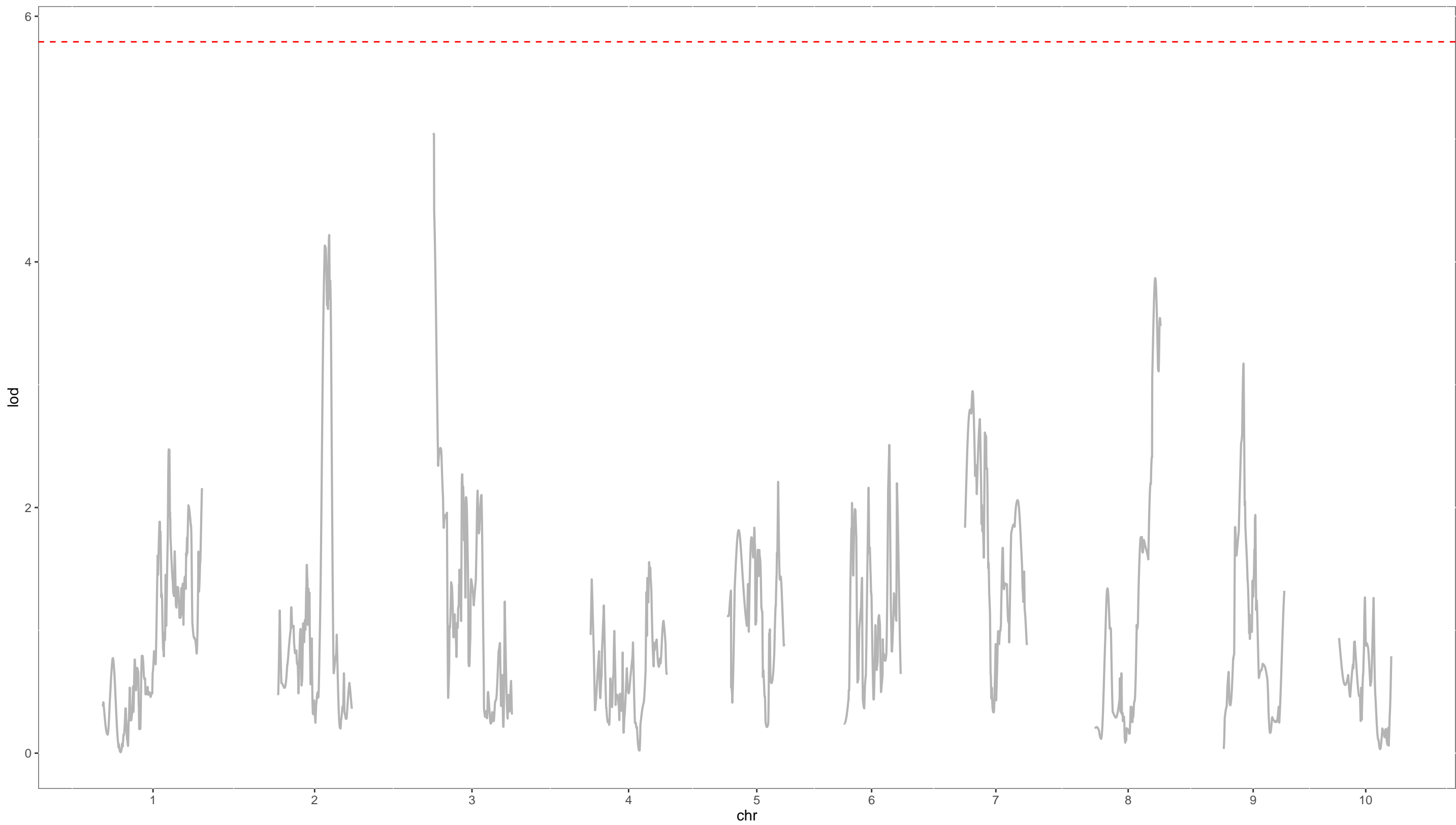
QTL analysis for int\_additive covariate for Fe\_ratio.f



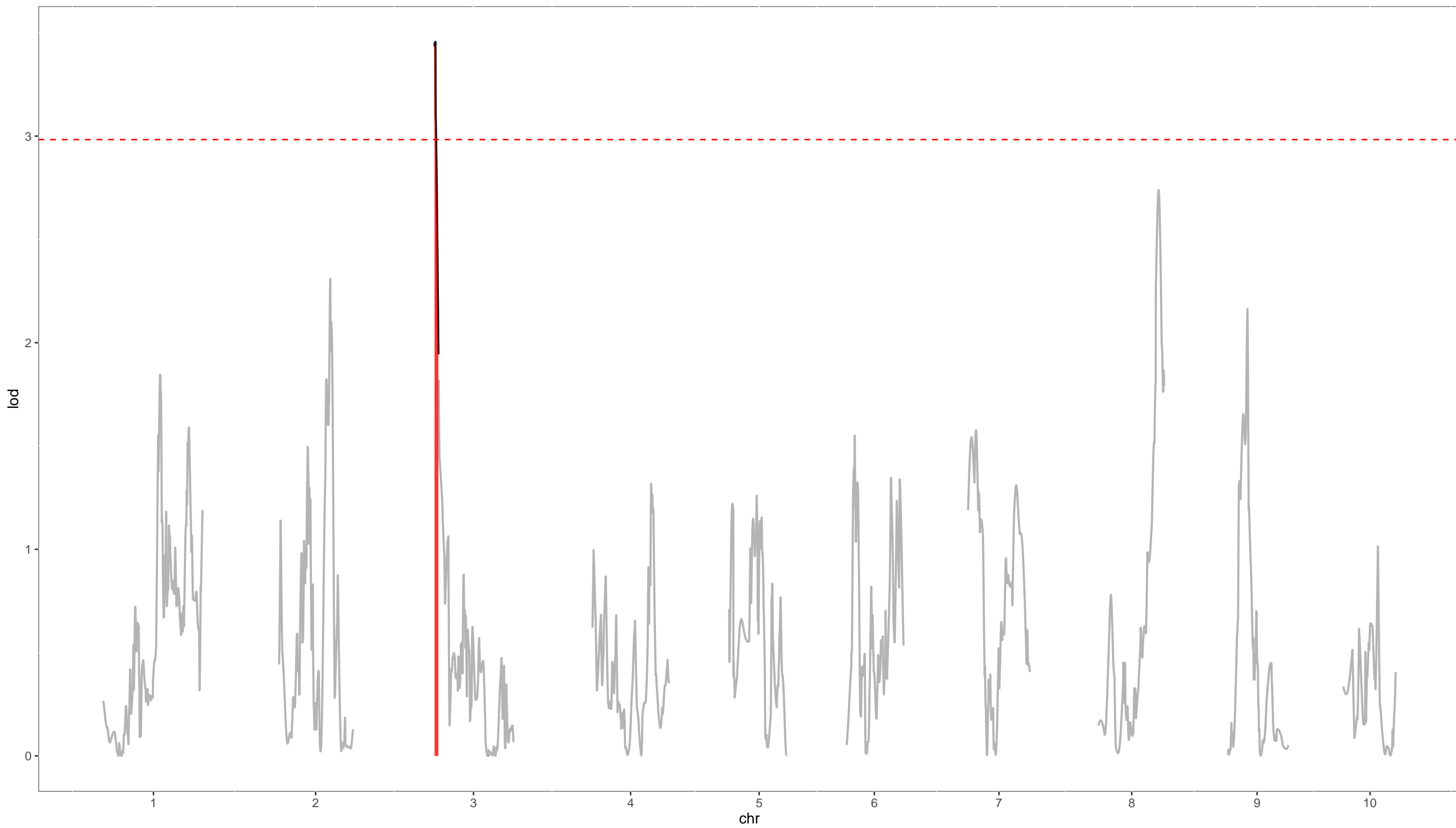
QTL analysis for int\_additive covariate for Fe\_ratio.i



## QTL analysis for int\_additive covariate for Fe\_seed.f

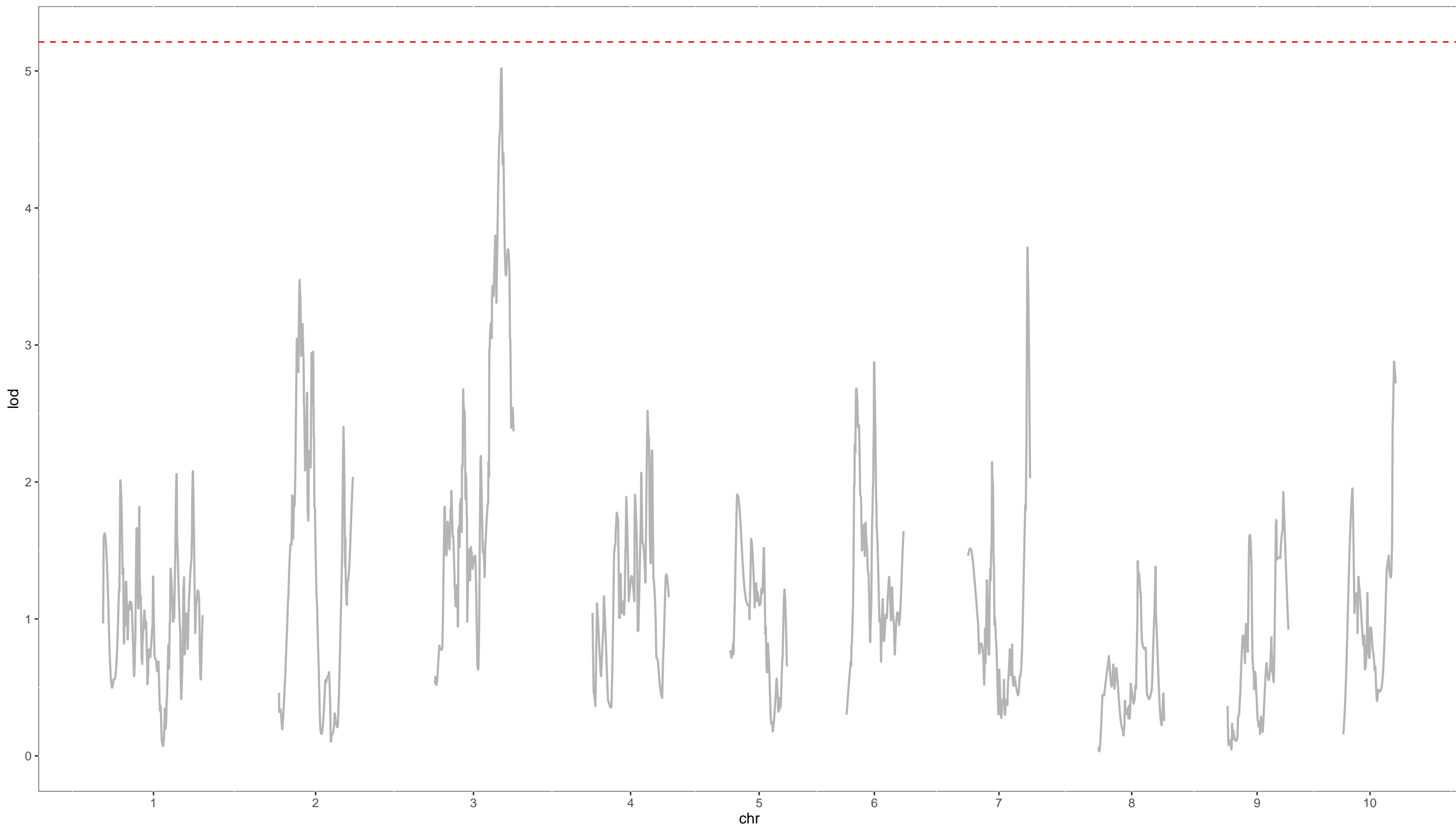


QTL analysis for int\_additive covariate for Fe\_seed.i

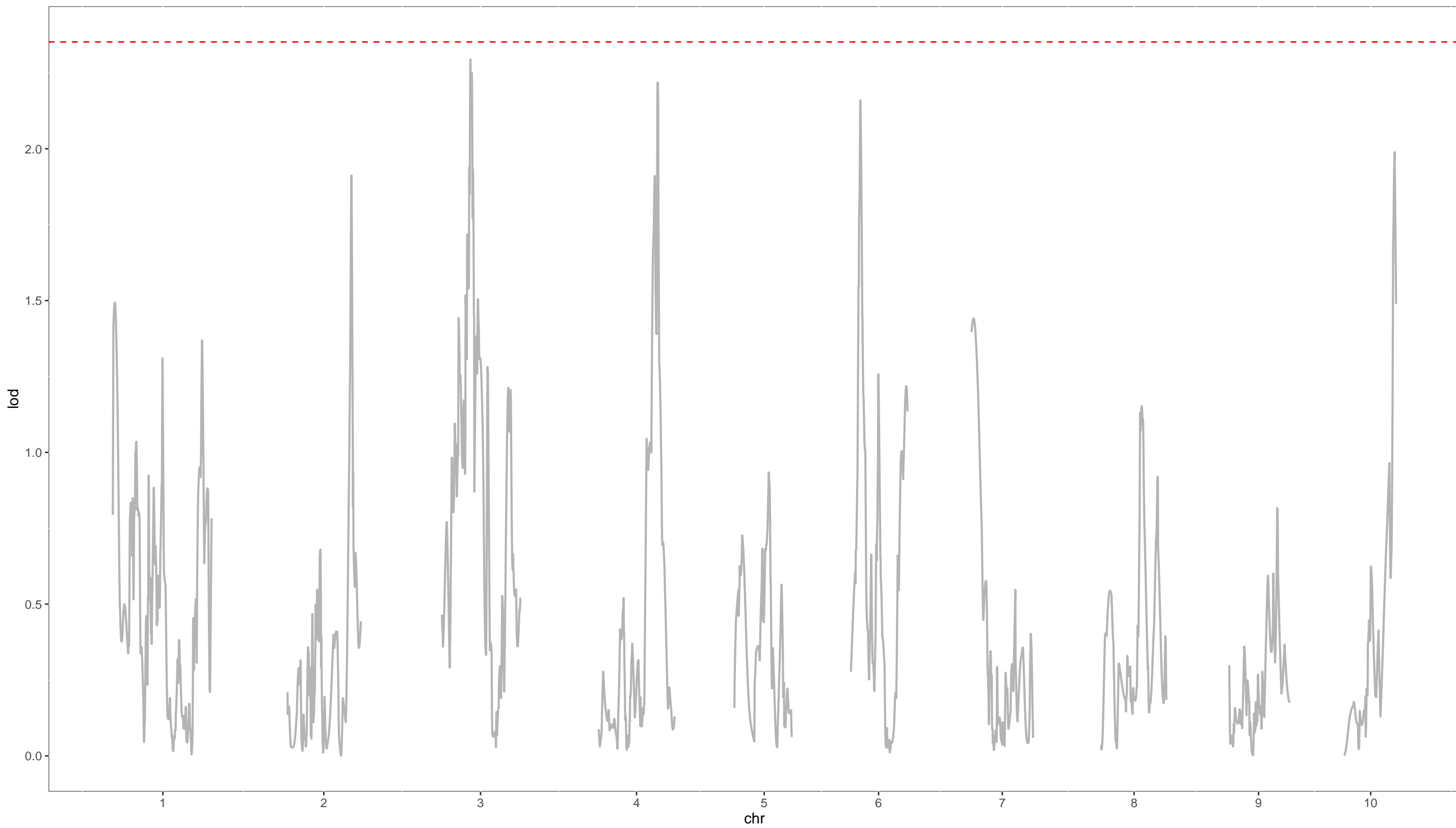




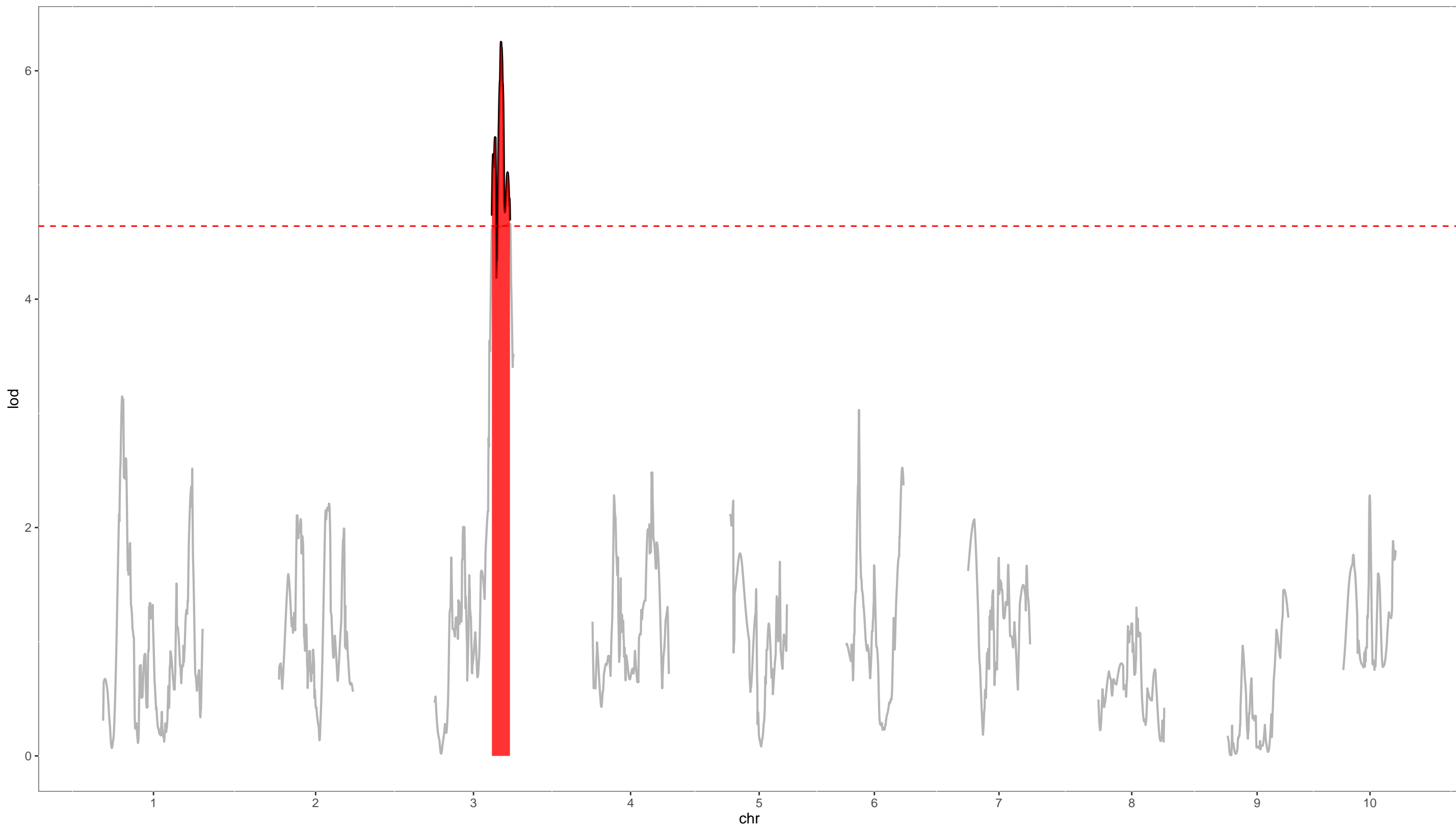
QTL analysis for int\_additive covariate for K\_leaf.f



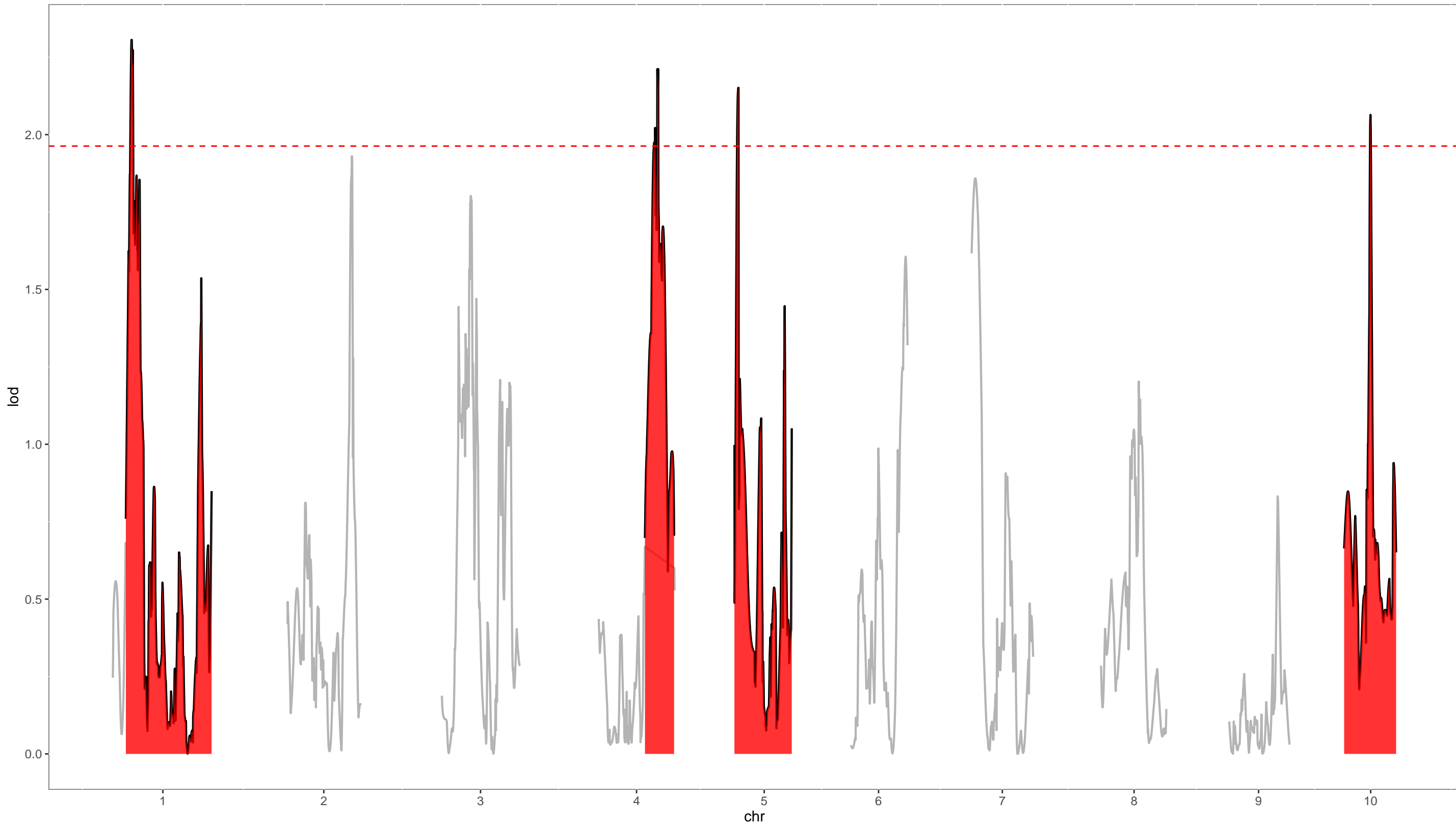
QTL analysis for int\_additive covariate for K\_leaf.i



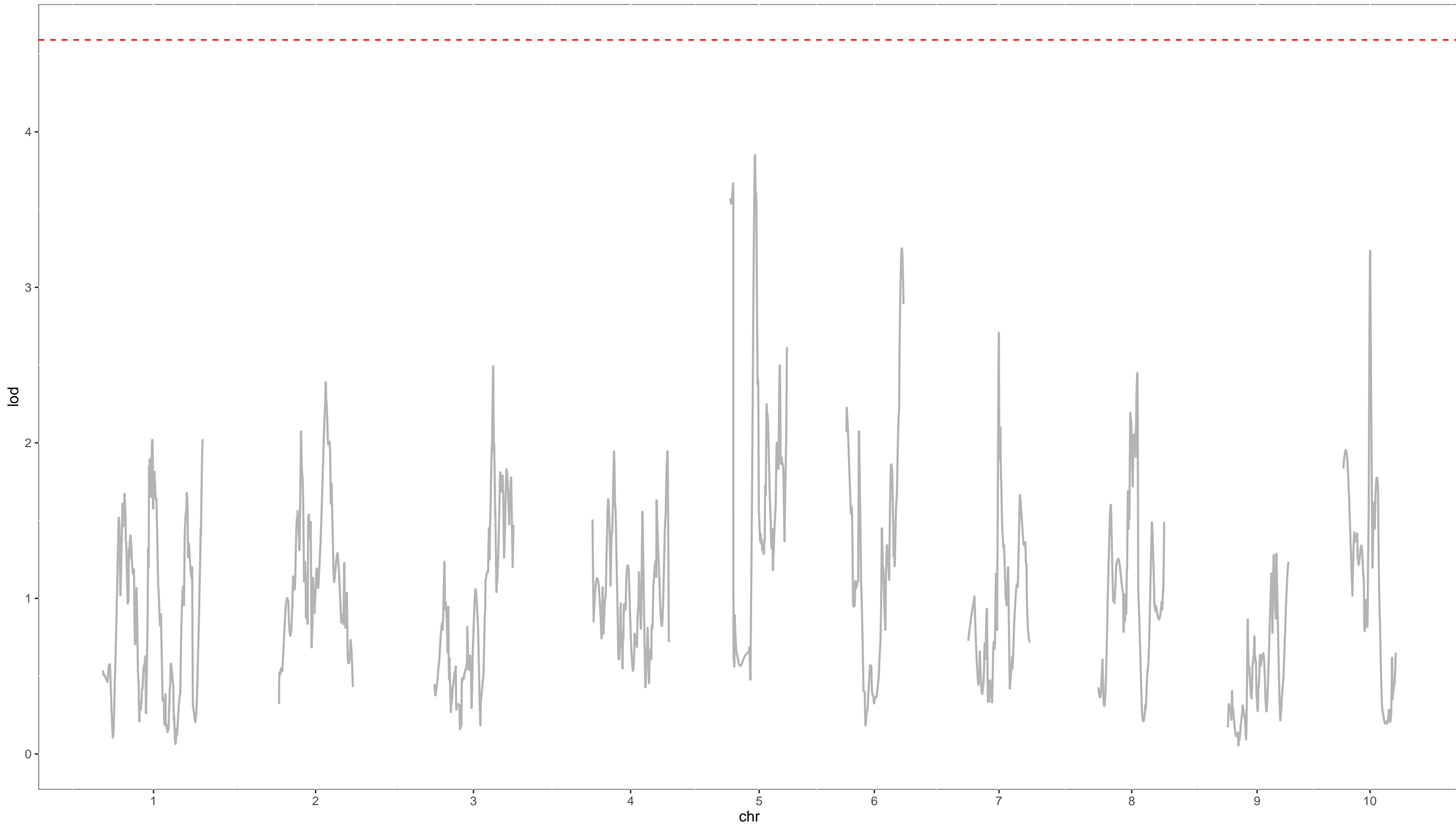
QTL analysis for int\_additive covariate for K\_ratio.f



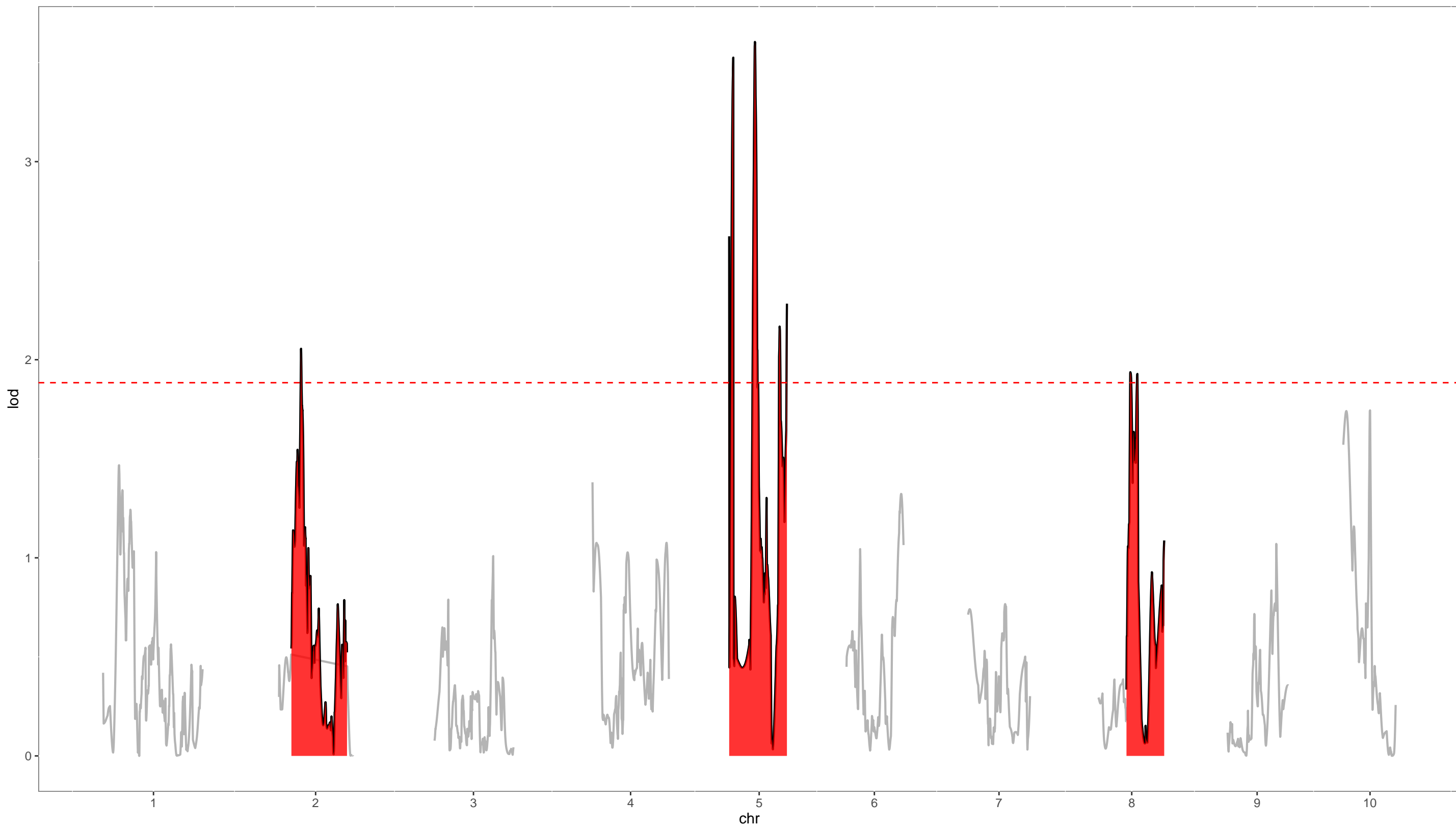
QTL analysis for int\_additive covariate for K\_ratio.i



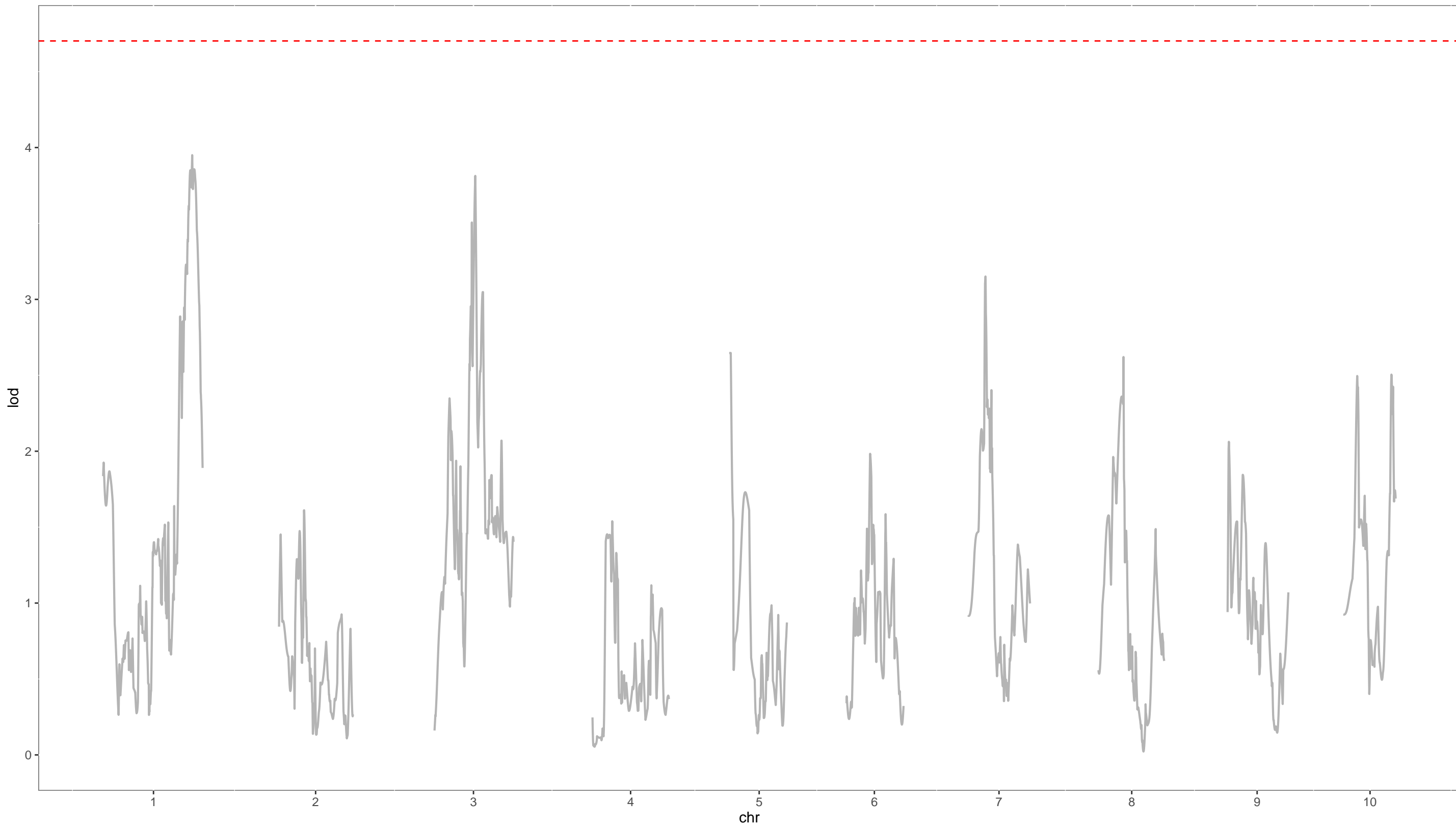
QTL analysis for int\_additive covariate for K\_seed.f



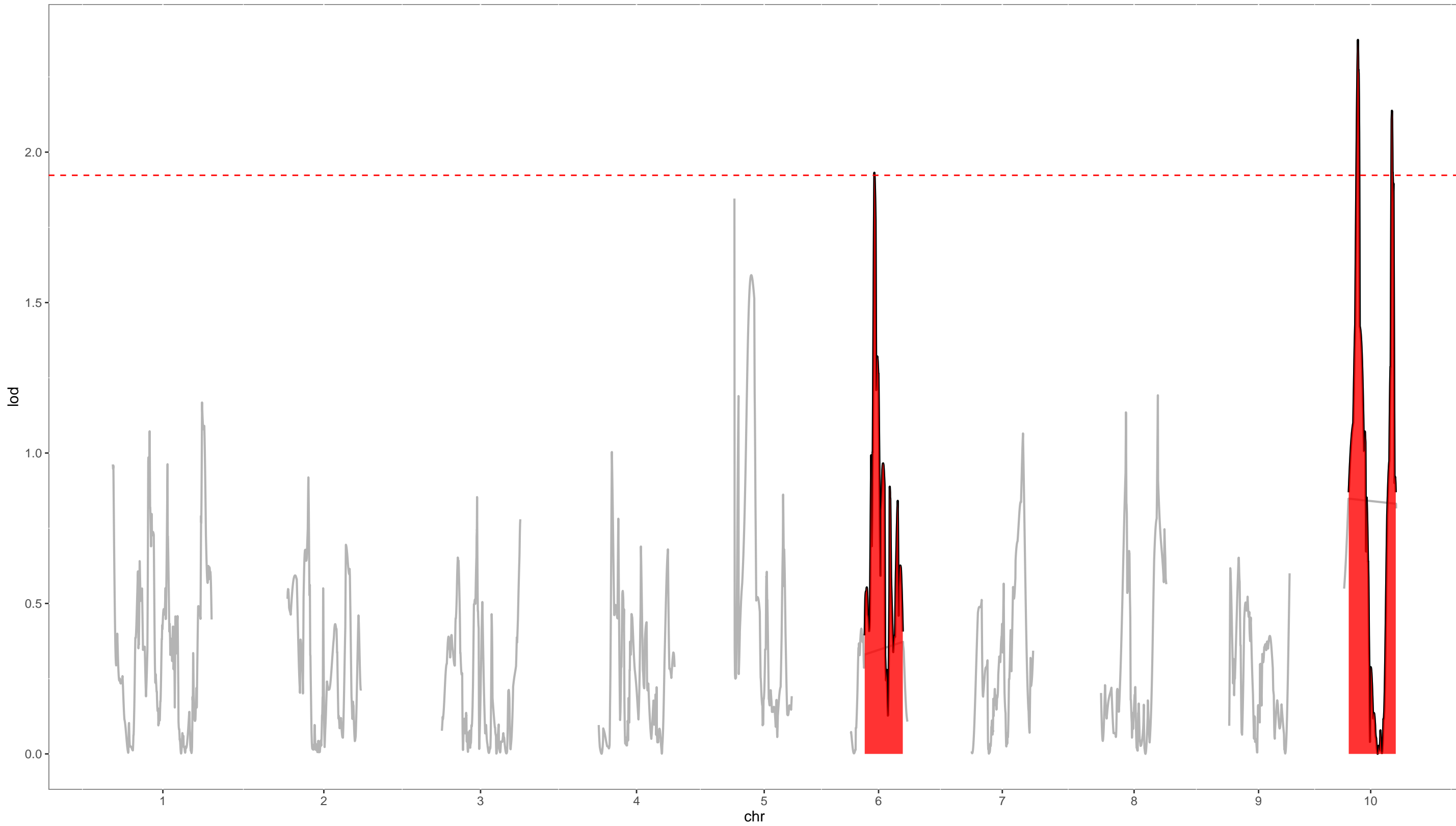
QTL analysis for int\_additive covariate for K\_seed.i



QTL analysis for int\_additive covariate for Mg\_leaf.f

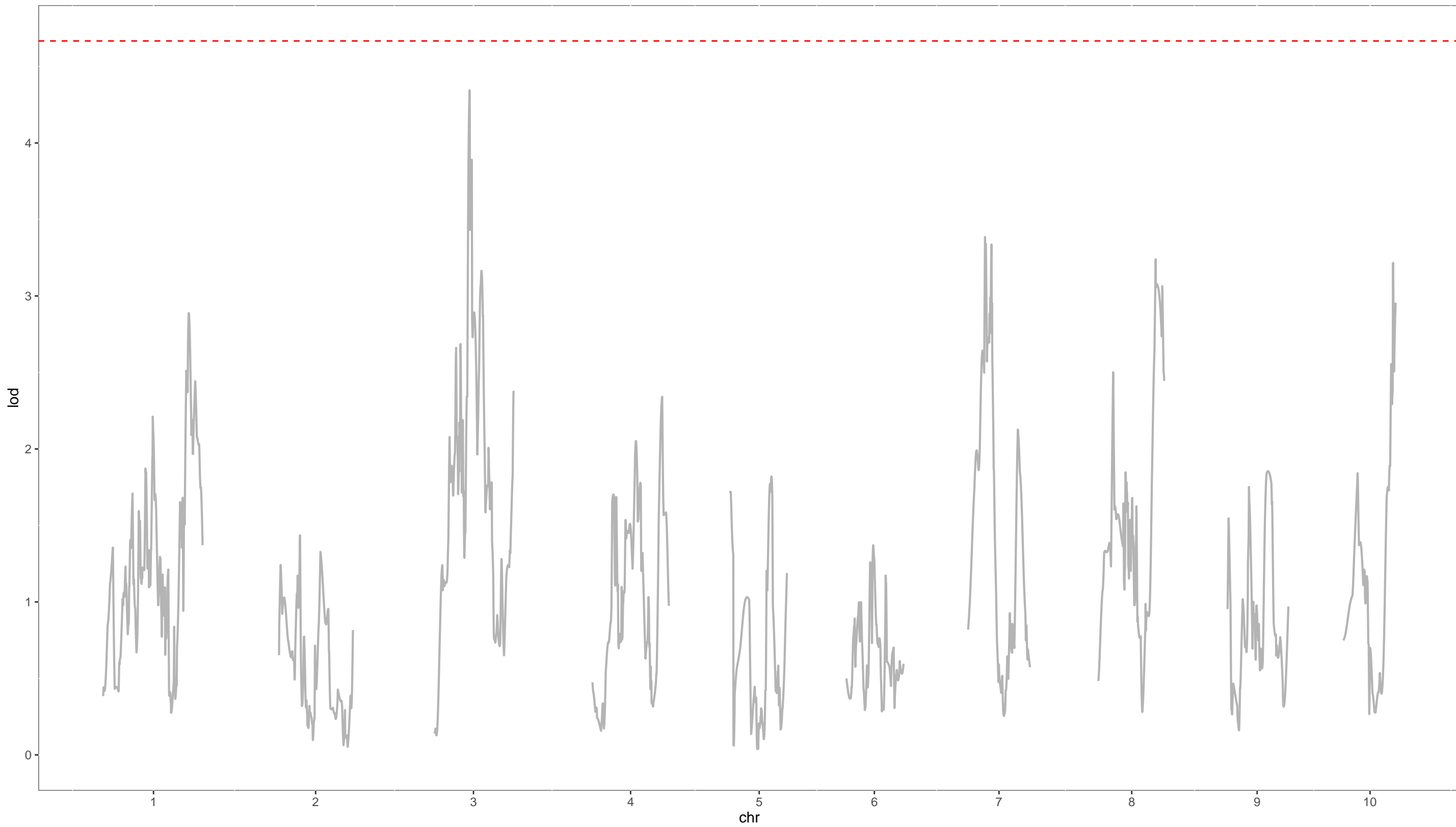


QTL analysis for int\_additive covariate for Mg\_leaf.i

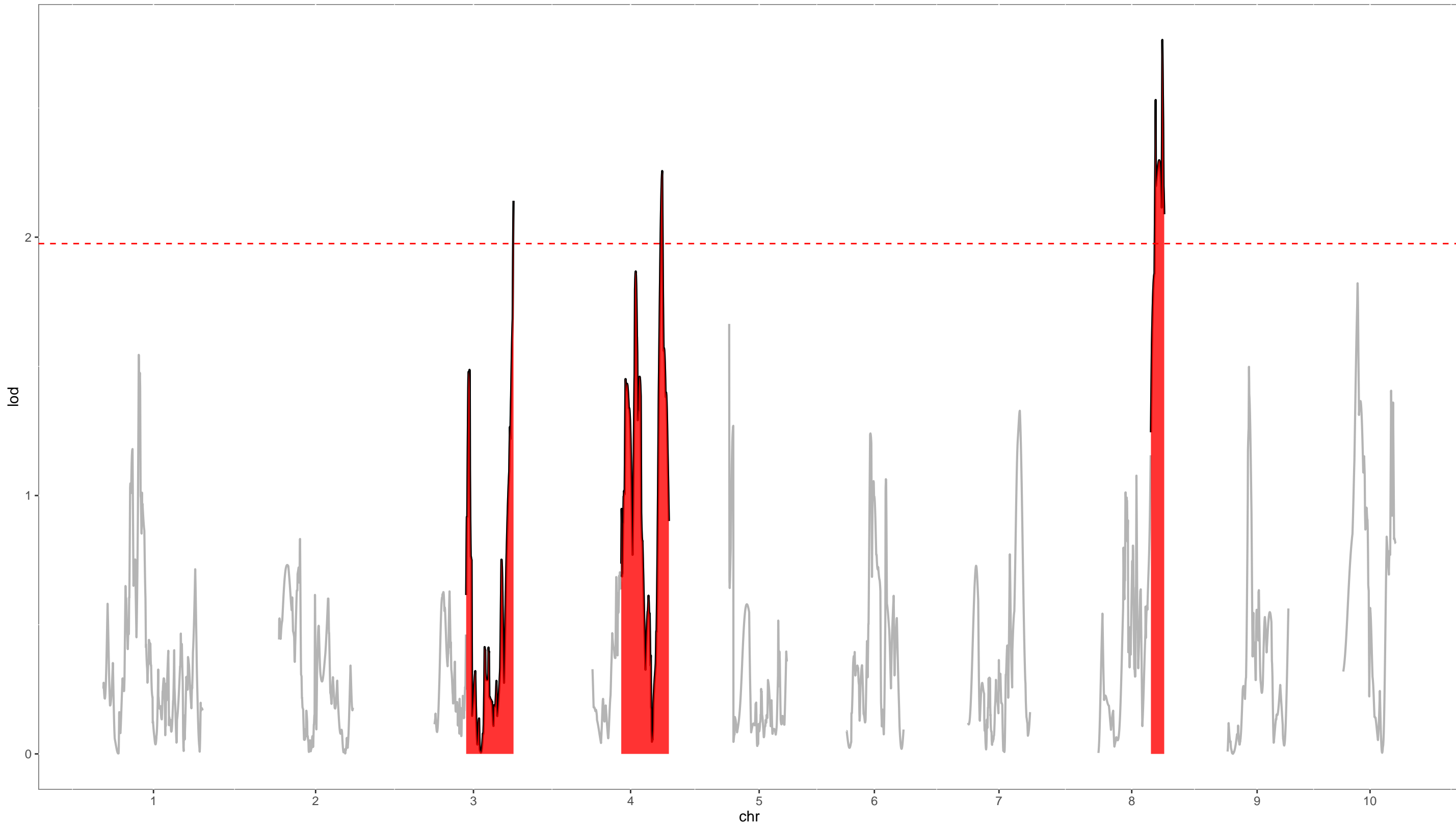




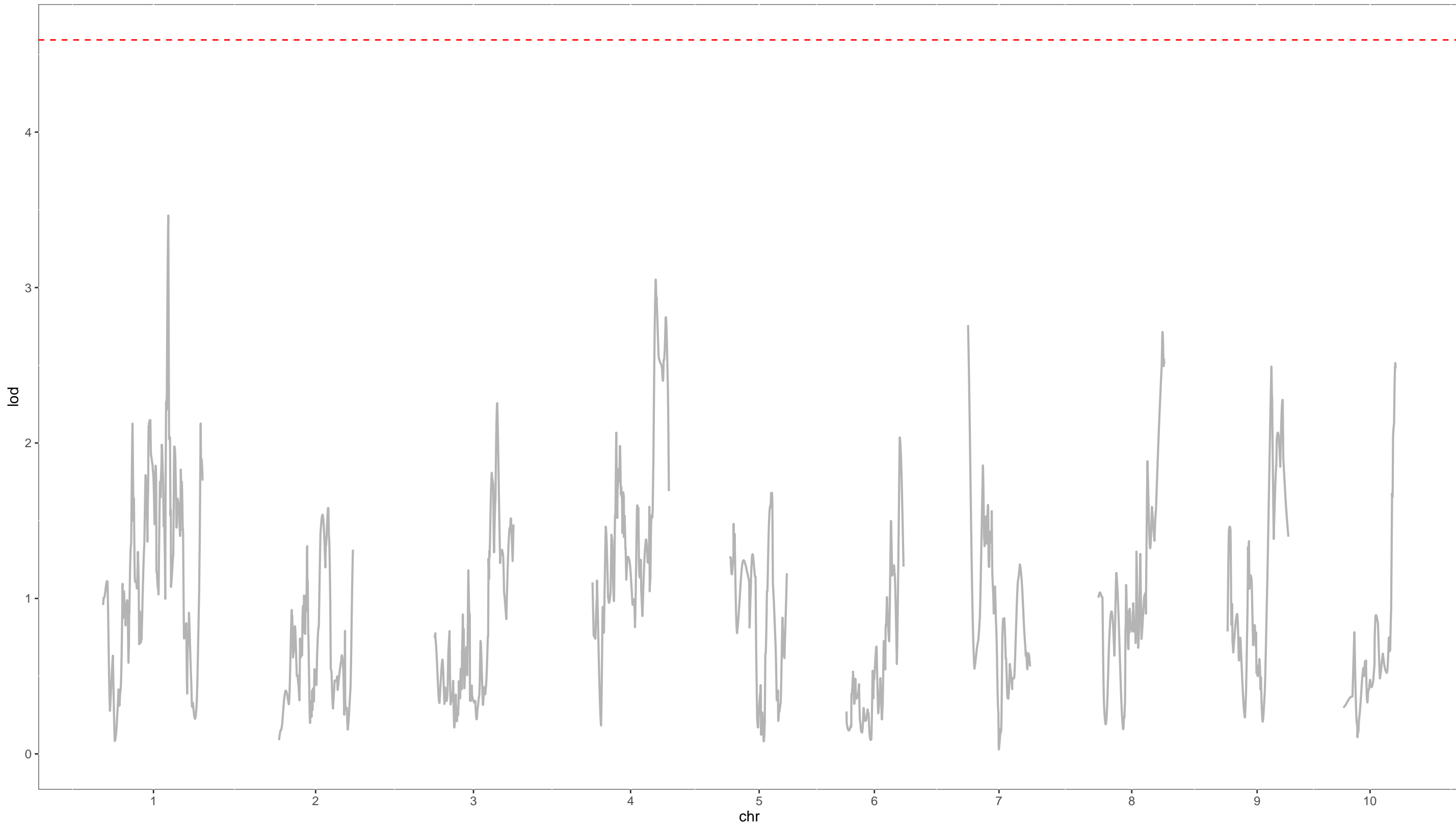
QTL analysis for int\_additive covariate for Mg\_ratio.f



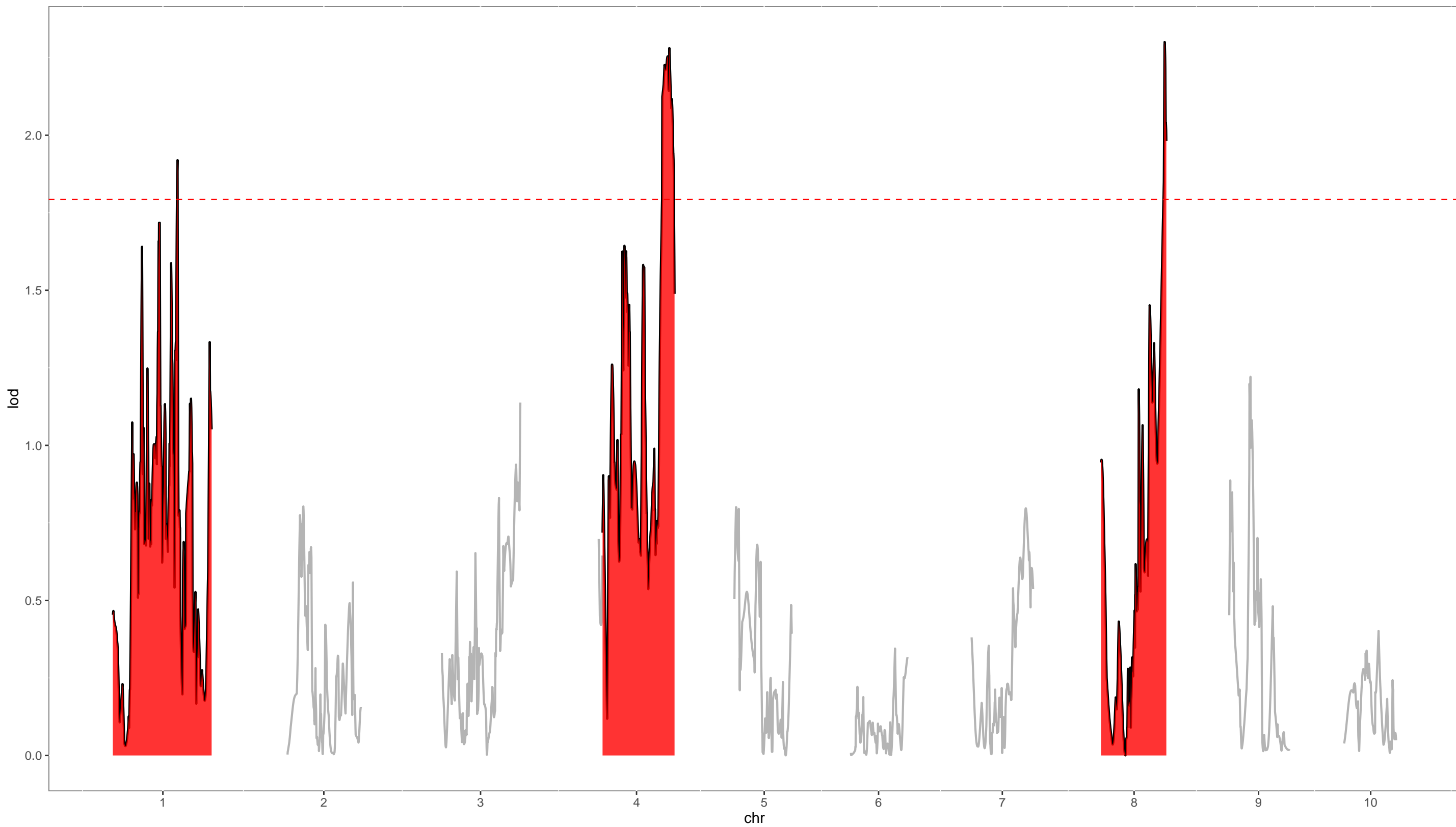
QTL analysis for int\_additive covariate for Mg\_ratio.i



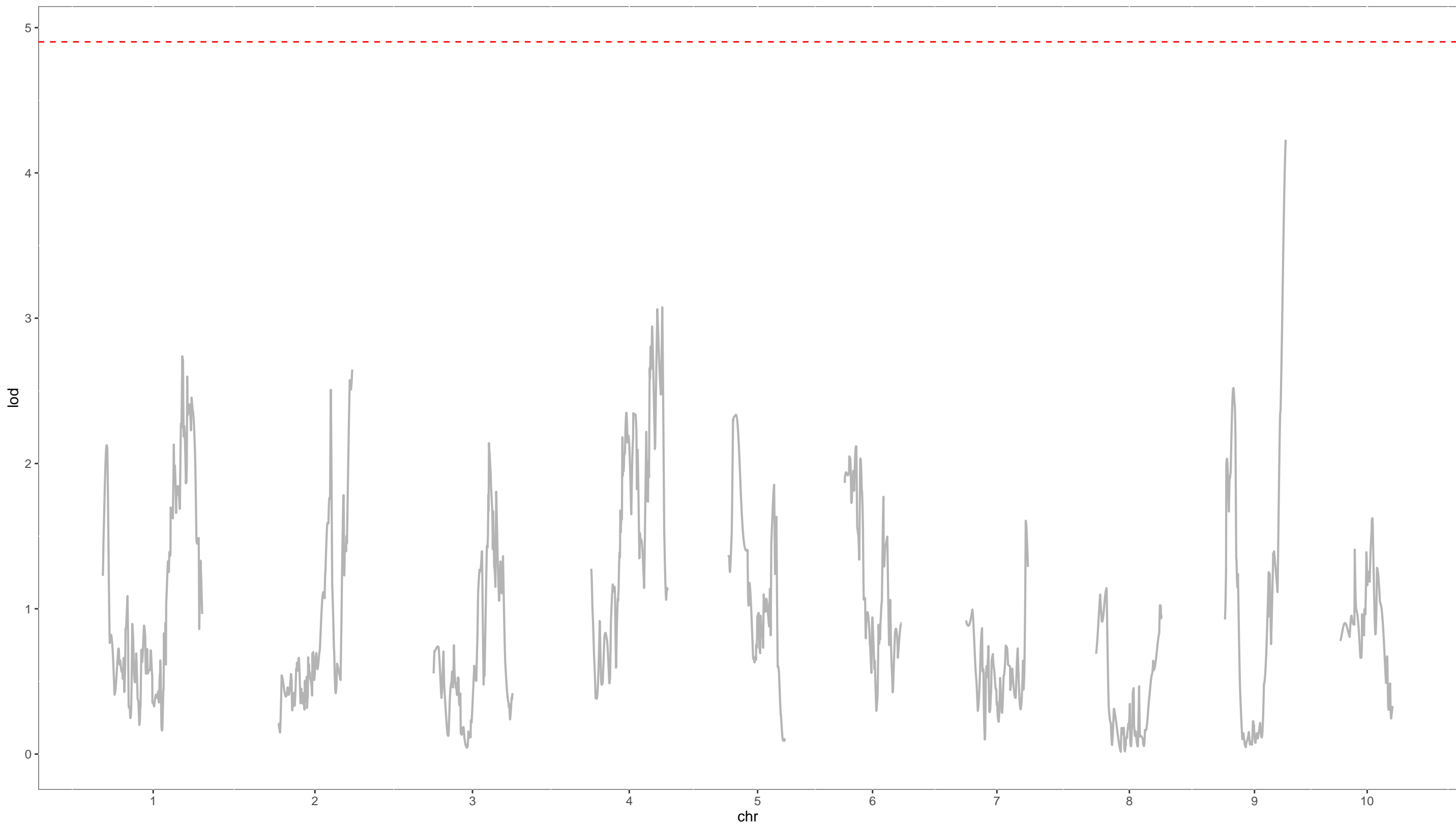
QTL analysis for int\_additive covariate for Mg\_seed.f



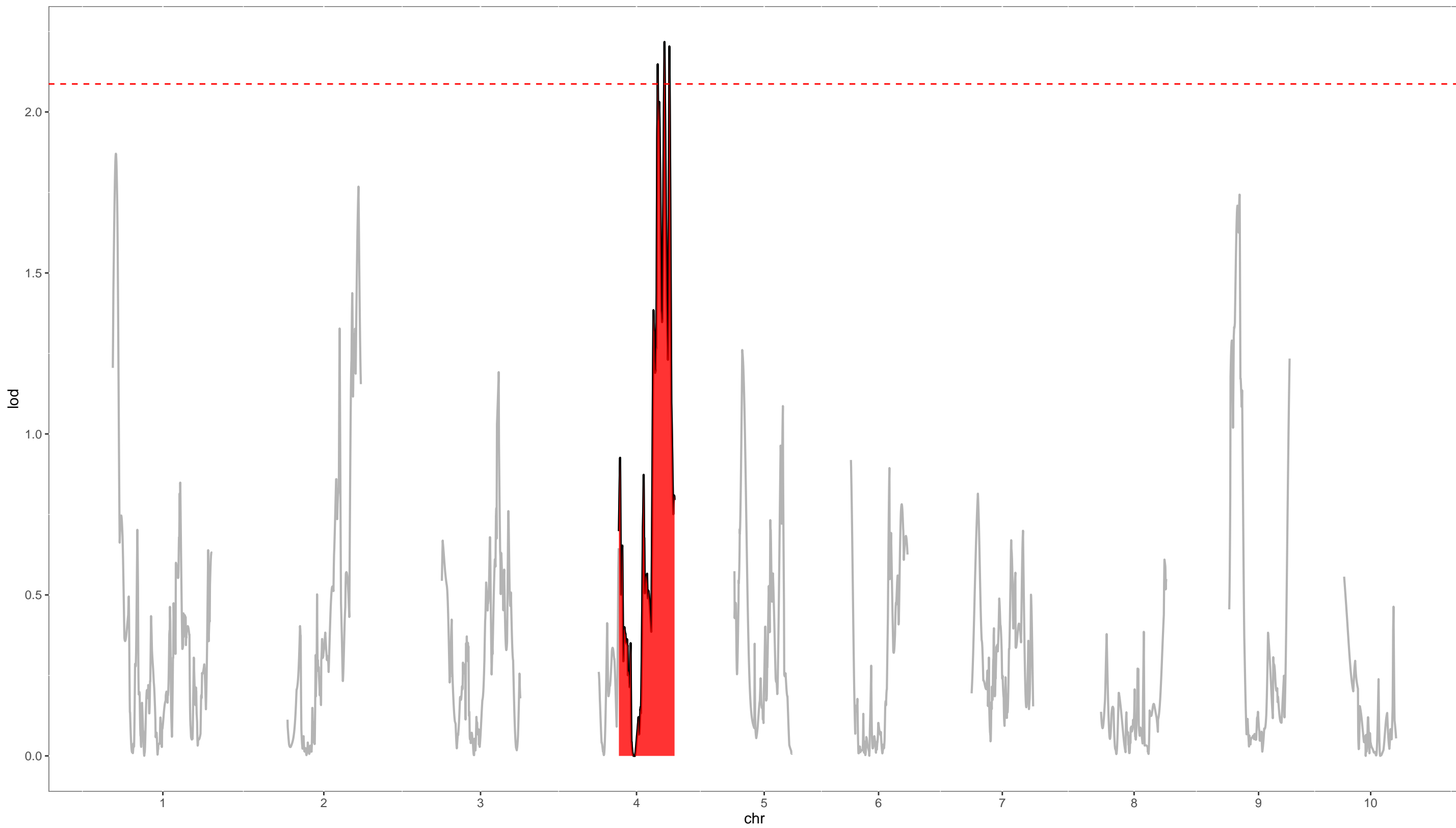
QTL analysis for int\_additive covariate for Mg\_seed.i



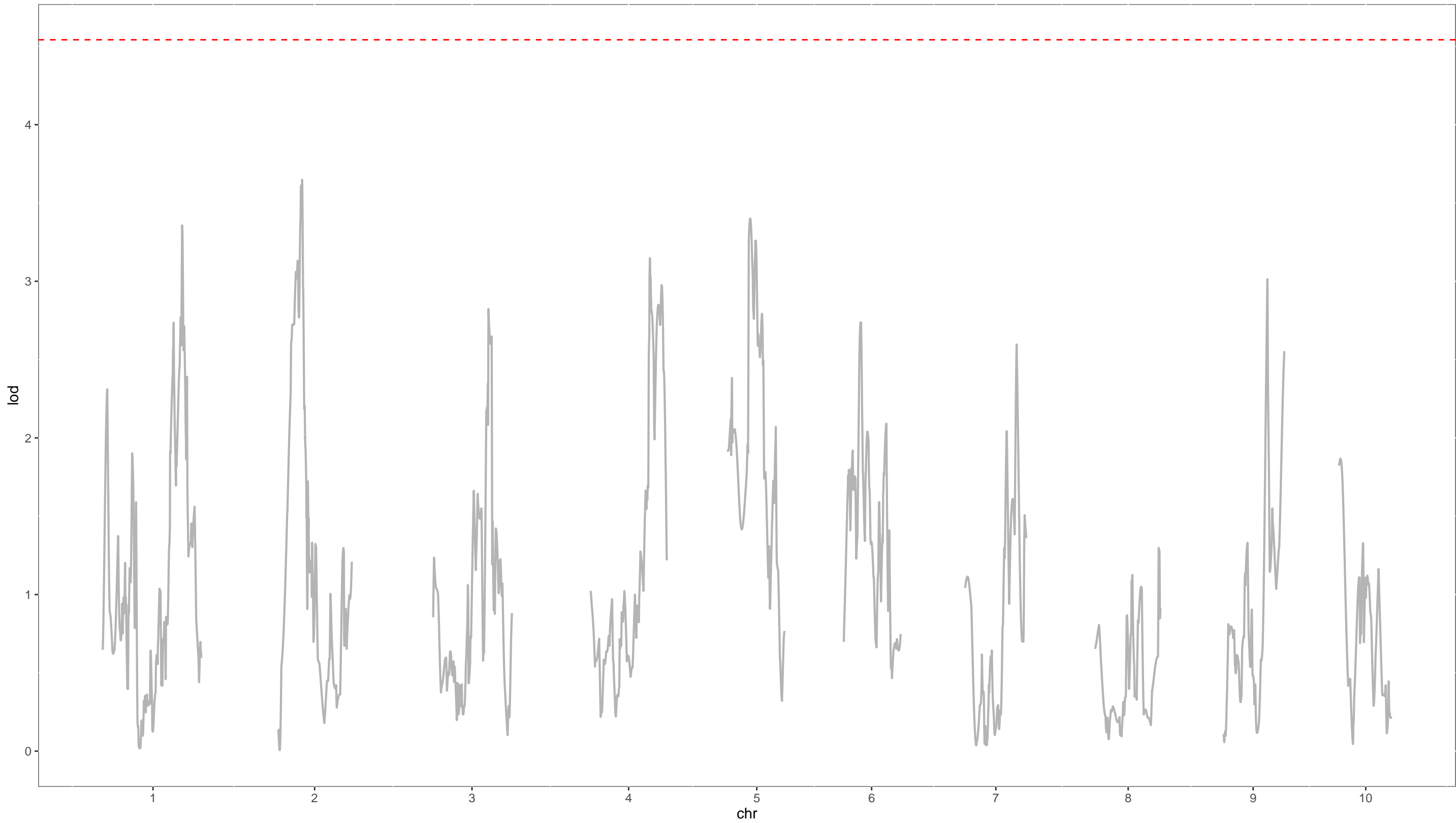
## QTL analysis for int\_additive covariate for Mn\_leaf.f



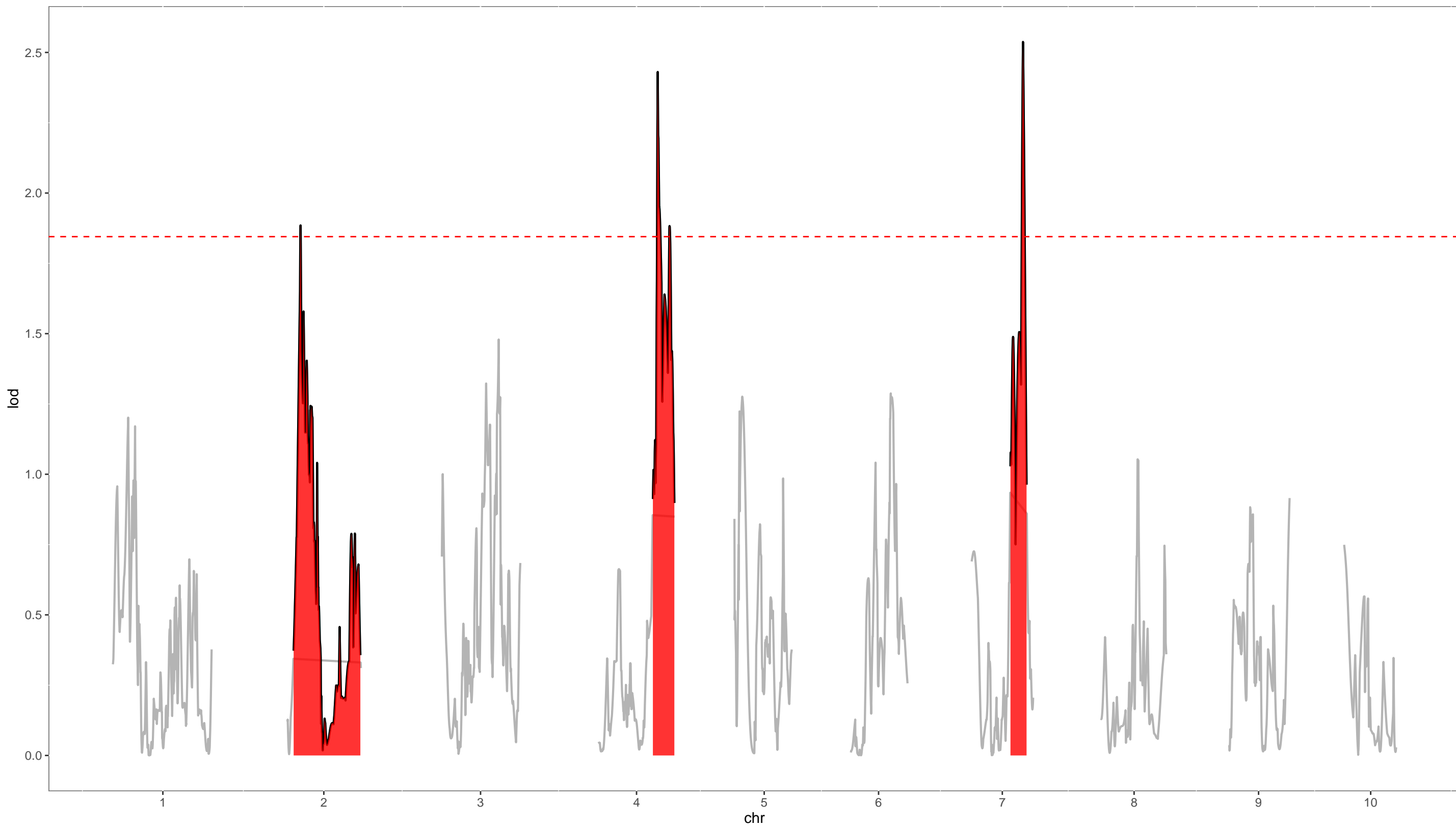
QTL analysis for int\_additive covariate for Mn\_leaf.i



QTL analysis for int\_additive covariate for Mn\_ratio.f

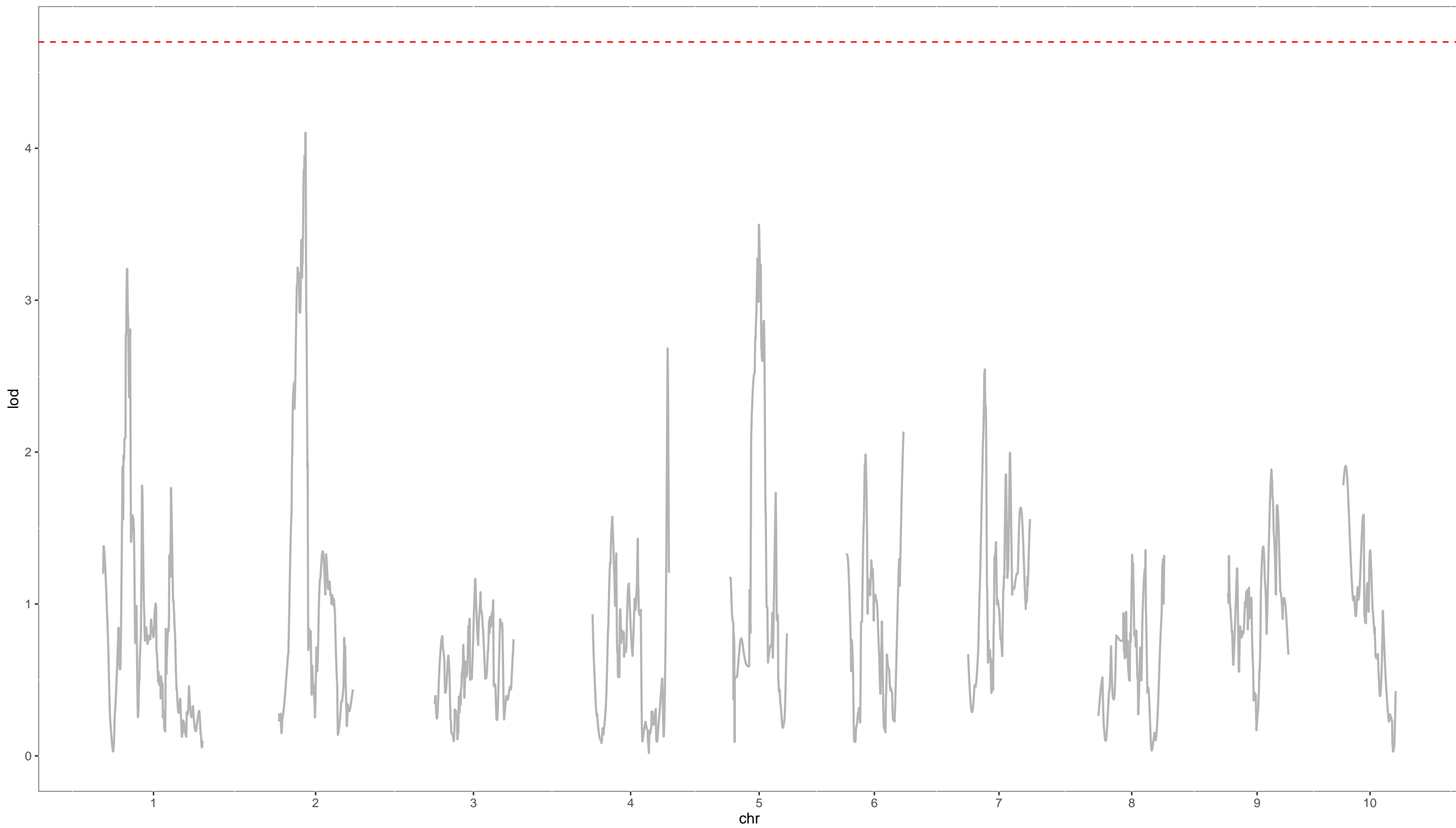


QTL analysis for int\_additive covariate for Mn\_ratio.i

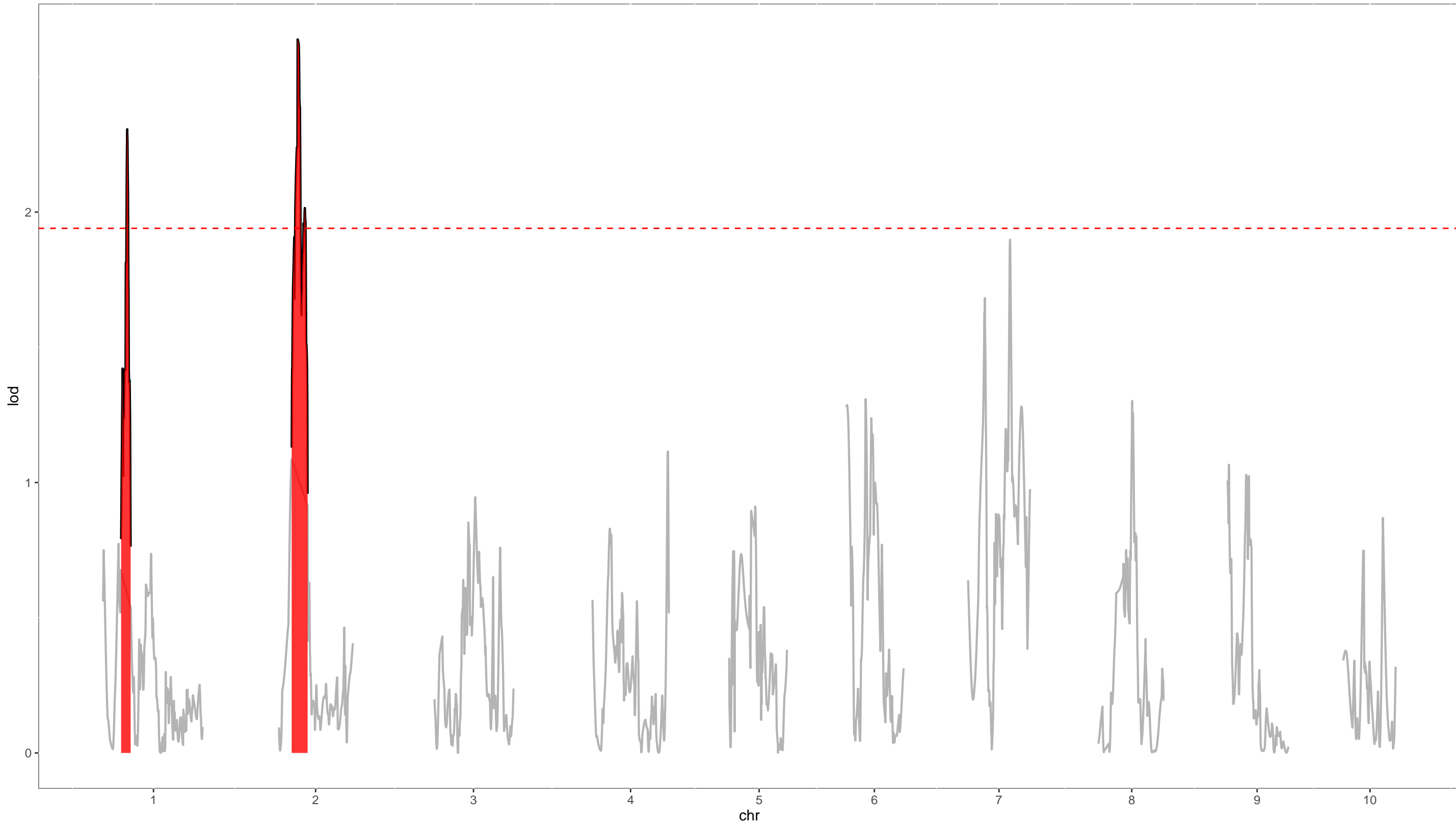




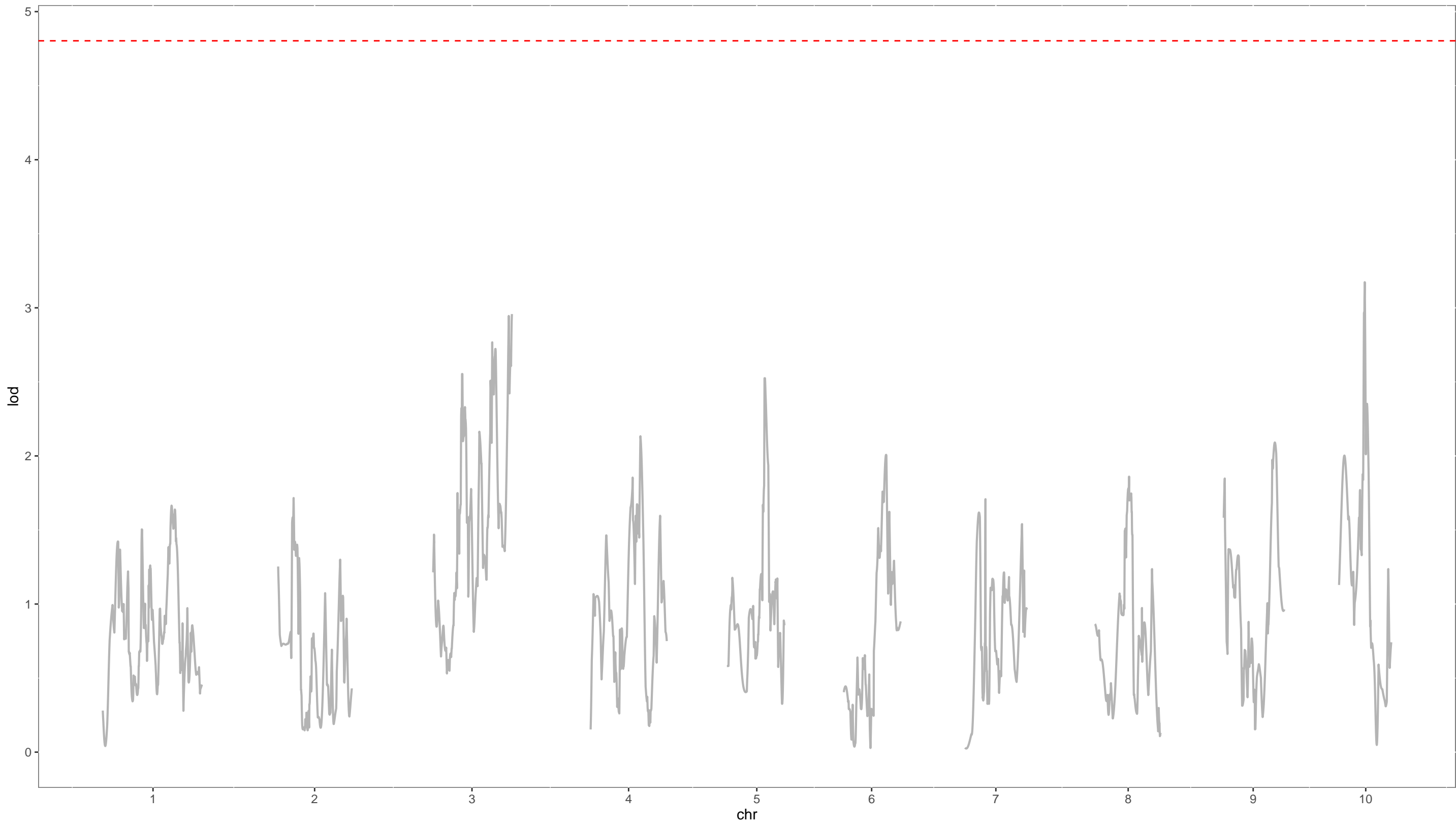
QTL analysis for int\_additive covariate for Mn\_seed.f



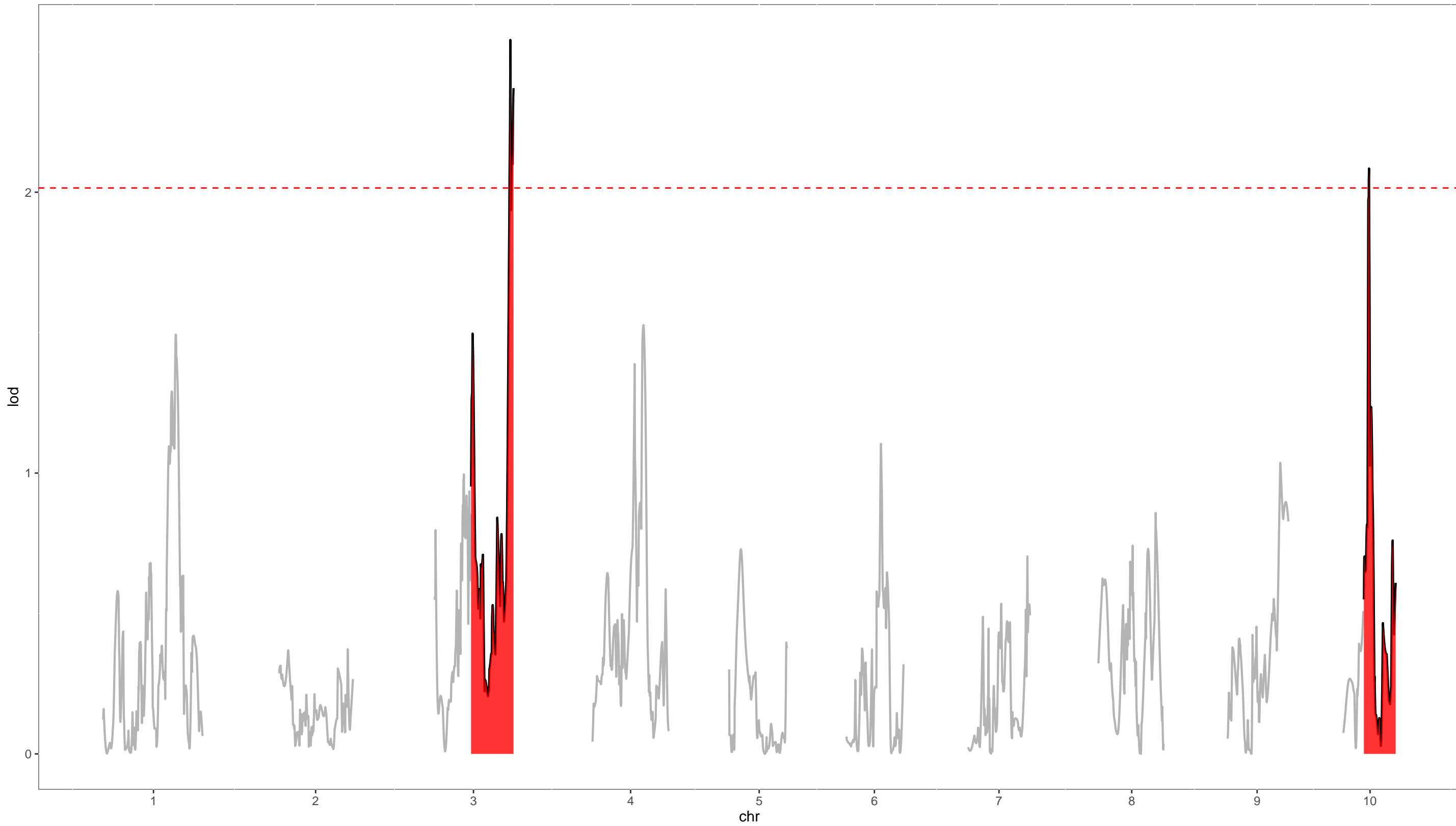
QTL analysis for int\_additive covariate for Mn\_seed.i



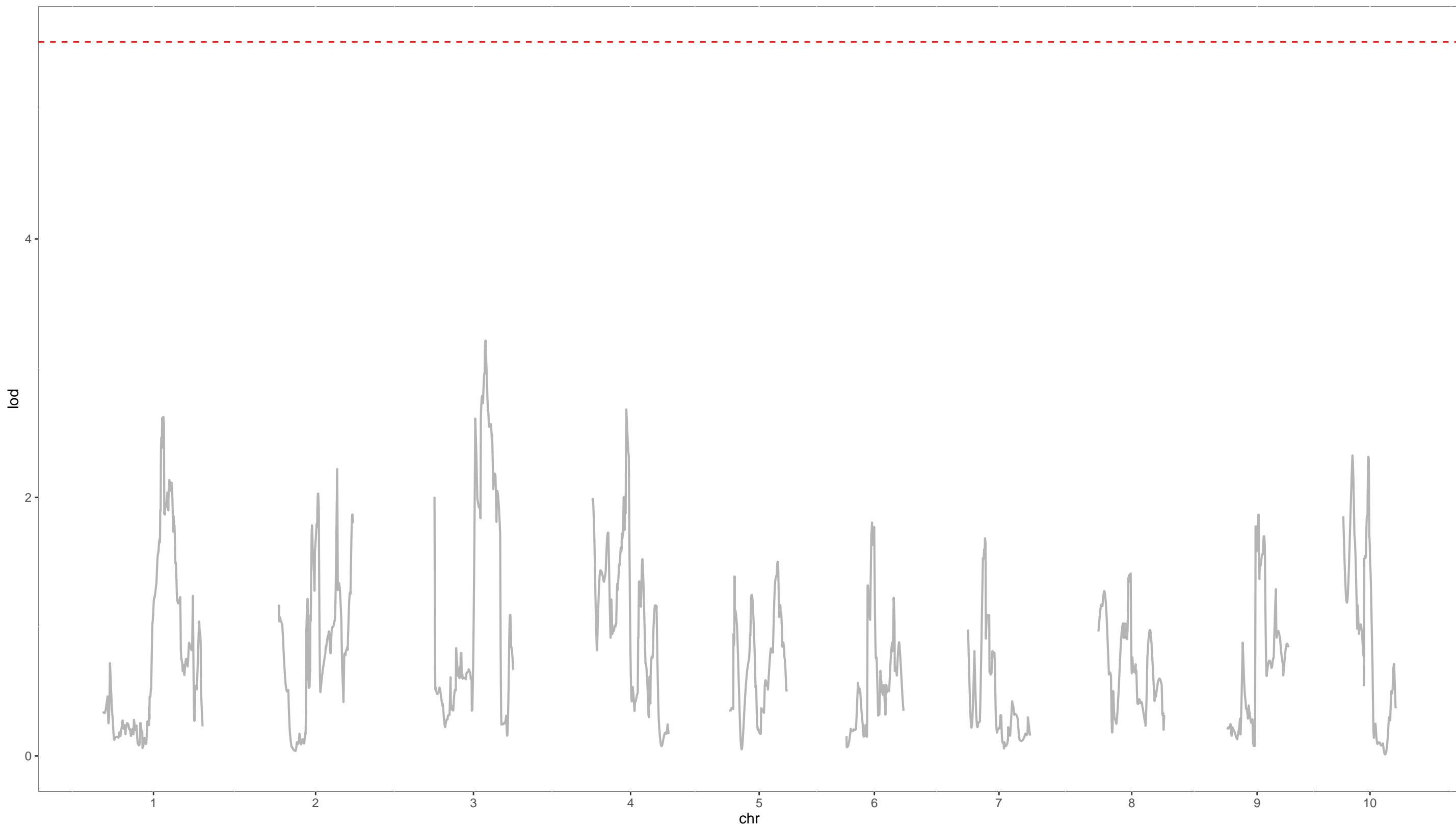
QTL analysis for int\_additive covariate for Mo\_leaf.f



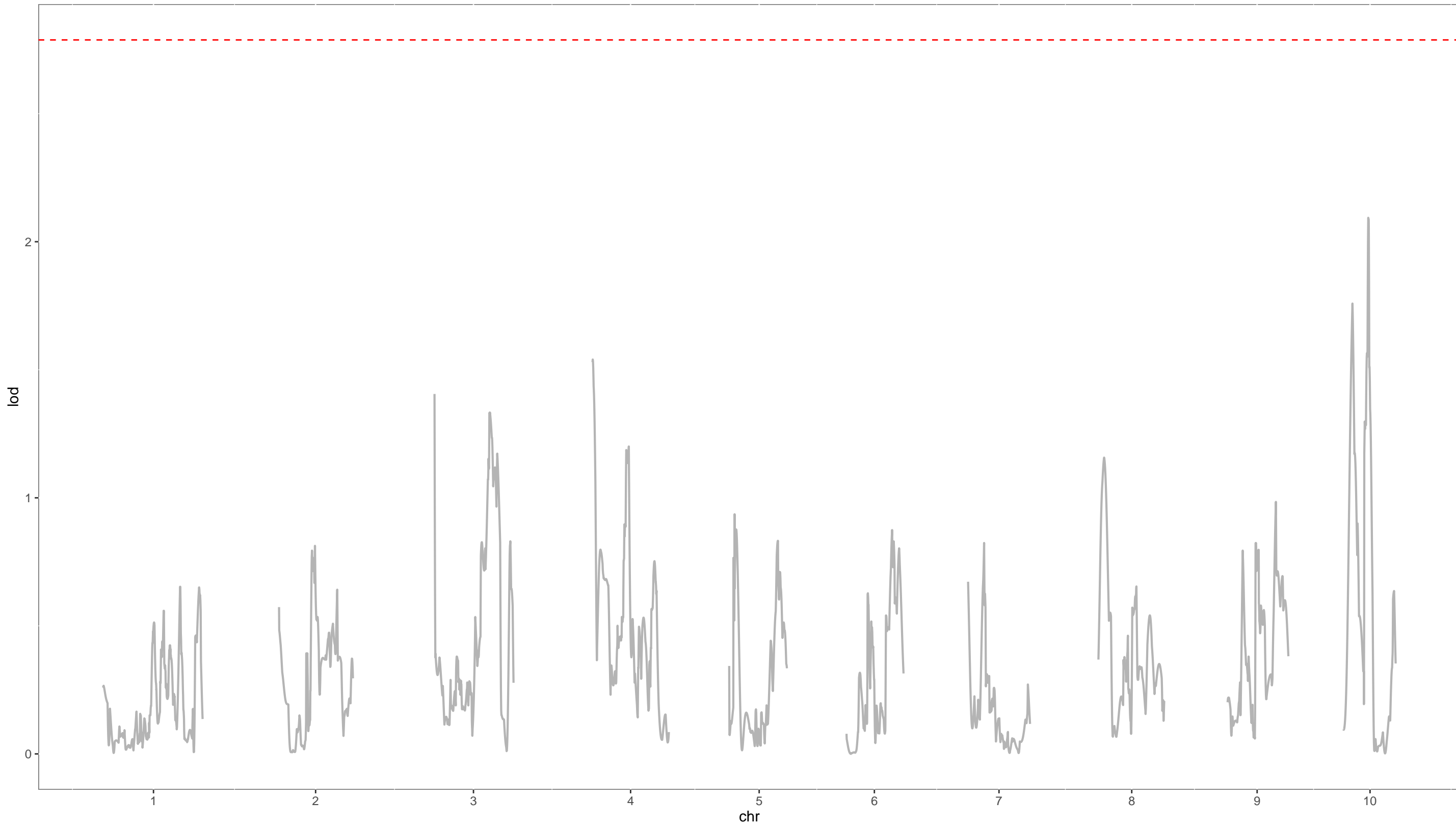
QTL analysis for int\_additive covariate for Mo\_leaf.i



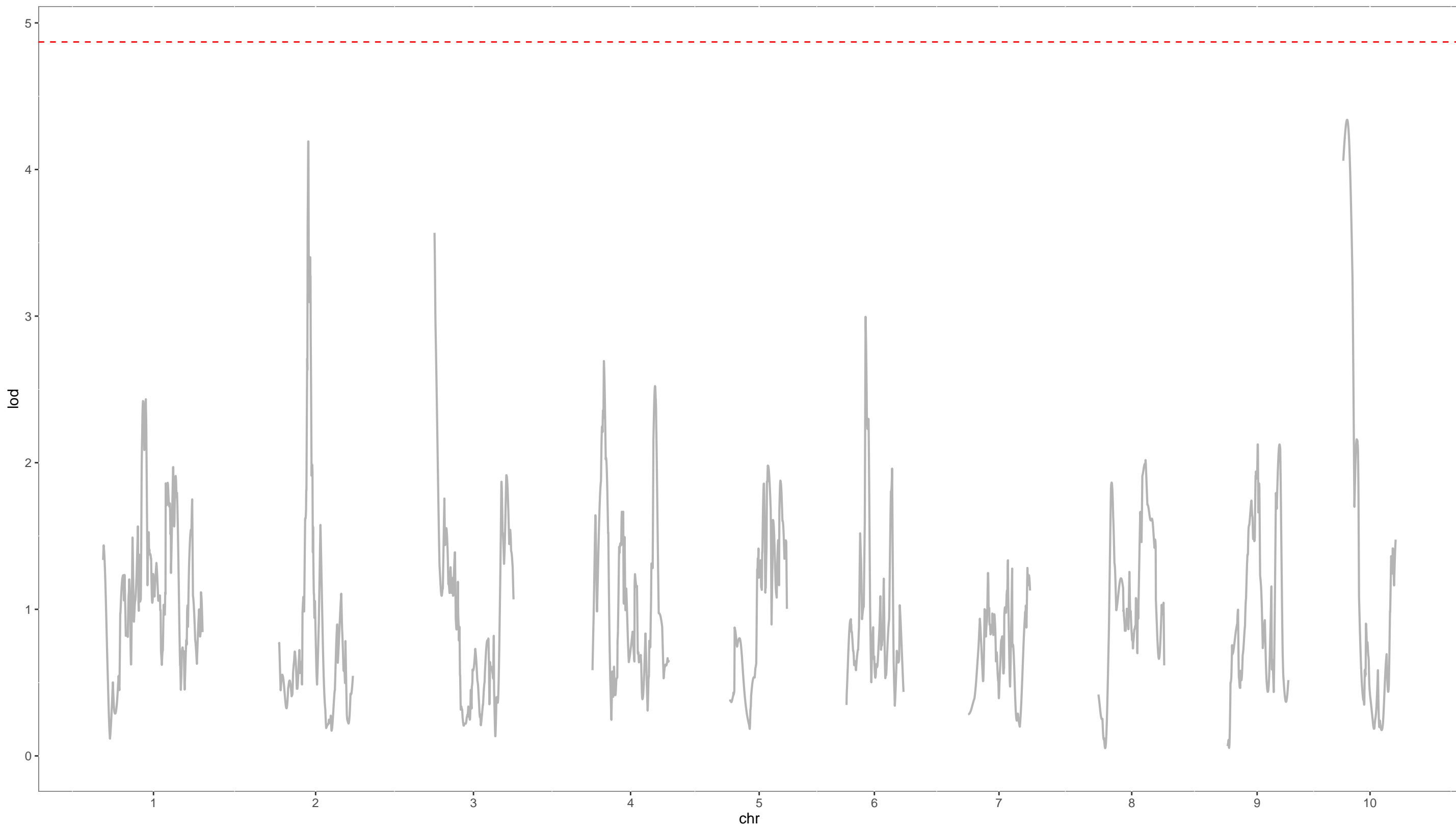
QTL analysis for int\_additive covariate for Mo\_ratio.f



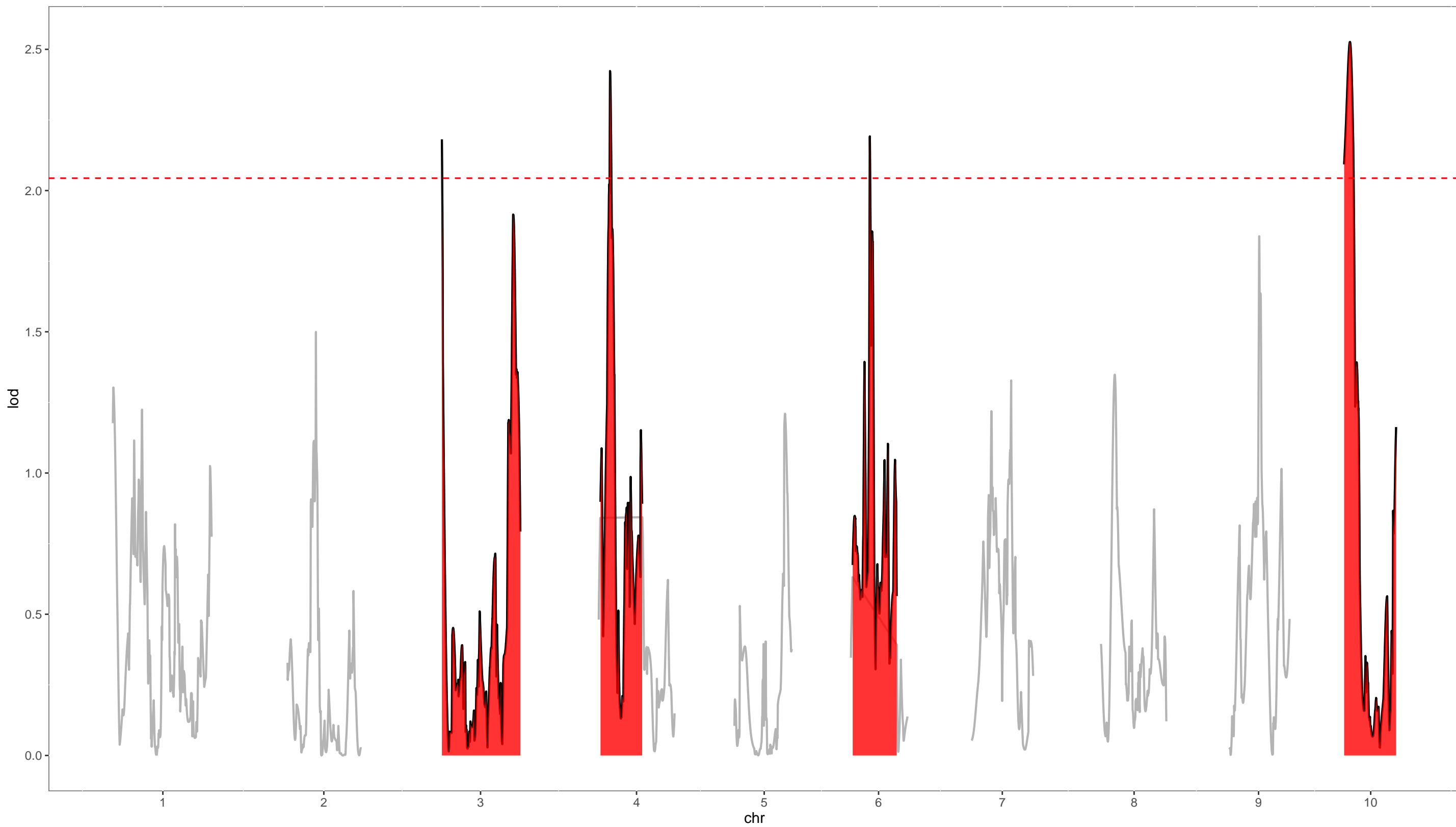
QTL analysis for int\_additive covariate for Mo\_ratio.i



QTL analysis for int\_additive covariate for Mo\_seed.f

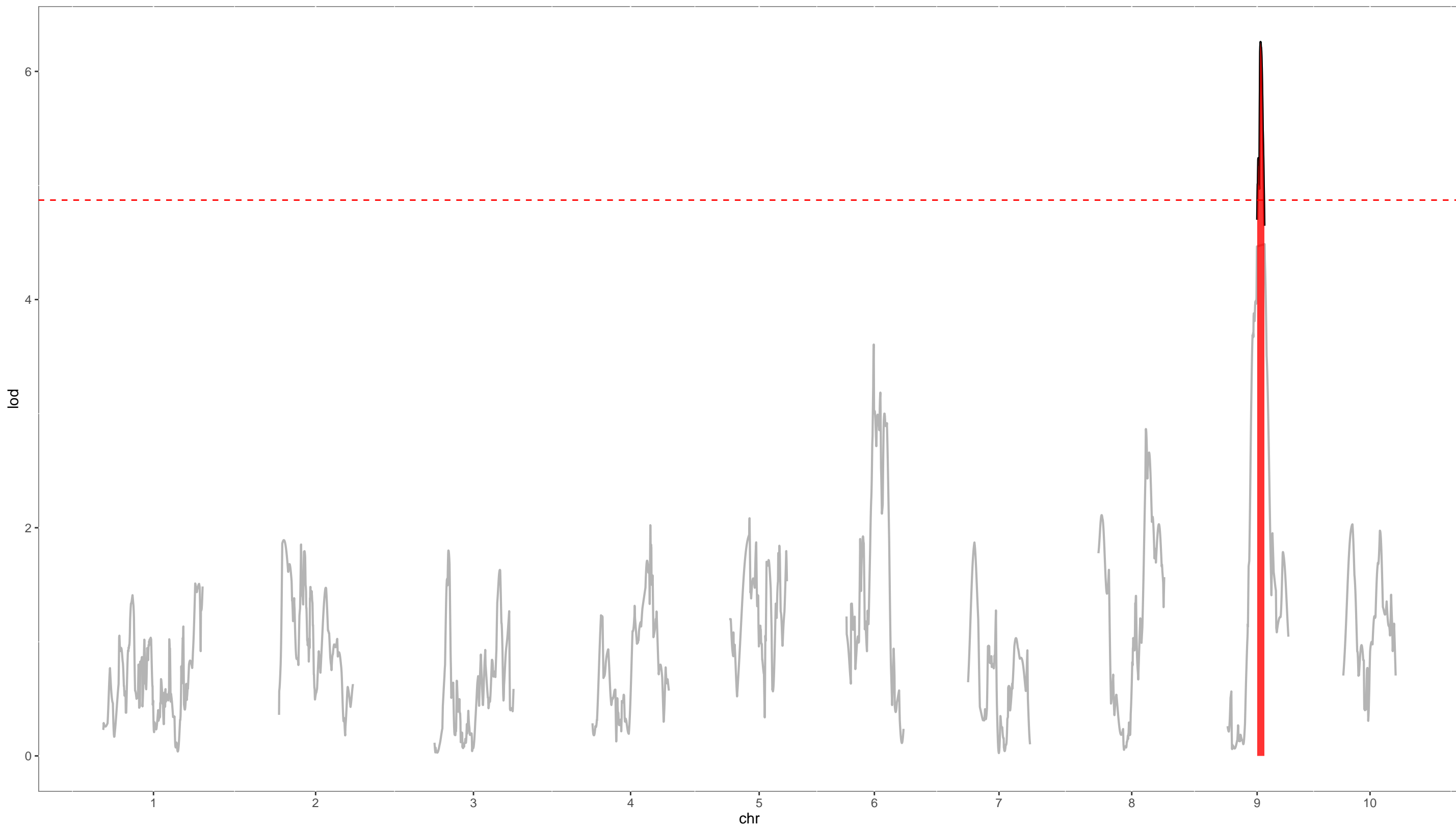


## QTL analysis for int\_additive covariate for Mo\_seed.i

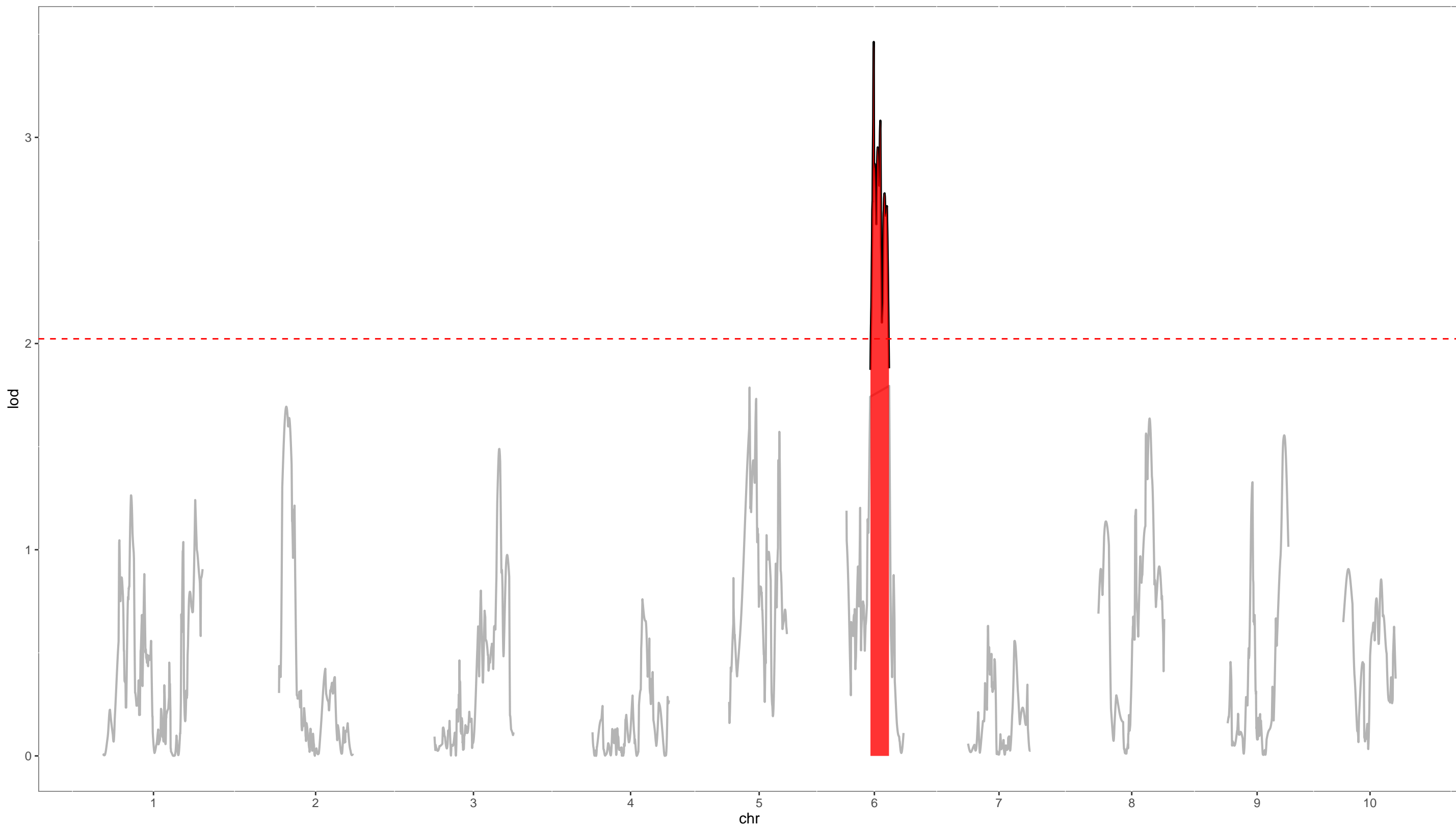




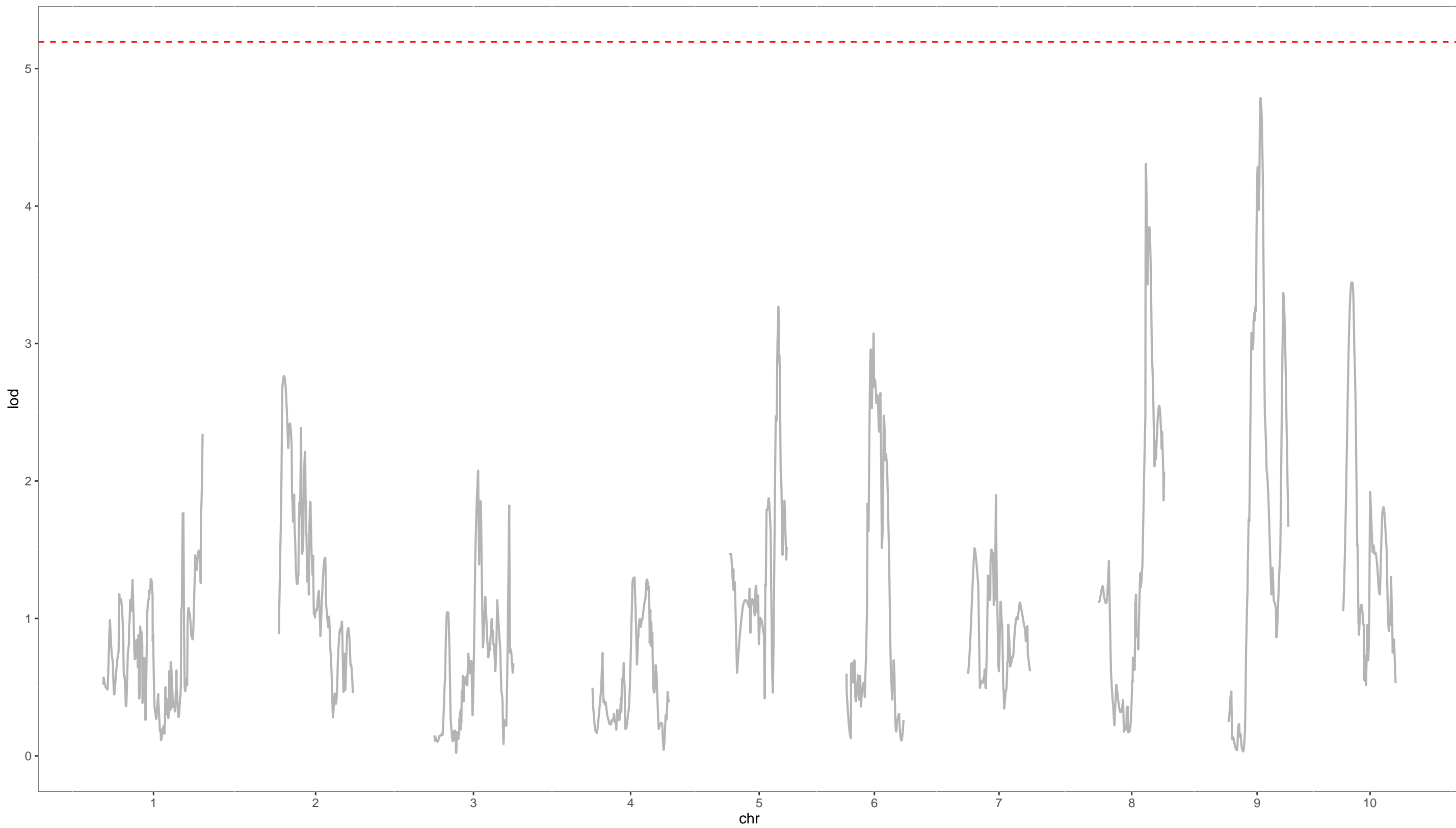
QTL analysis for int\_additive covariate for Na\_leaf.f



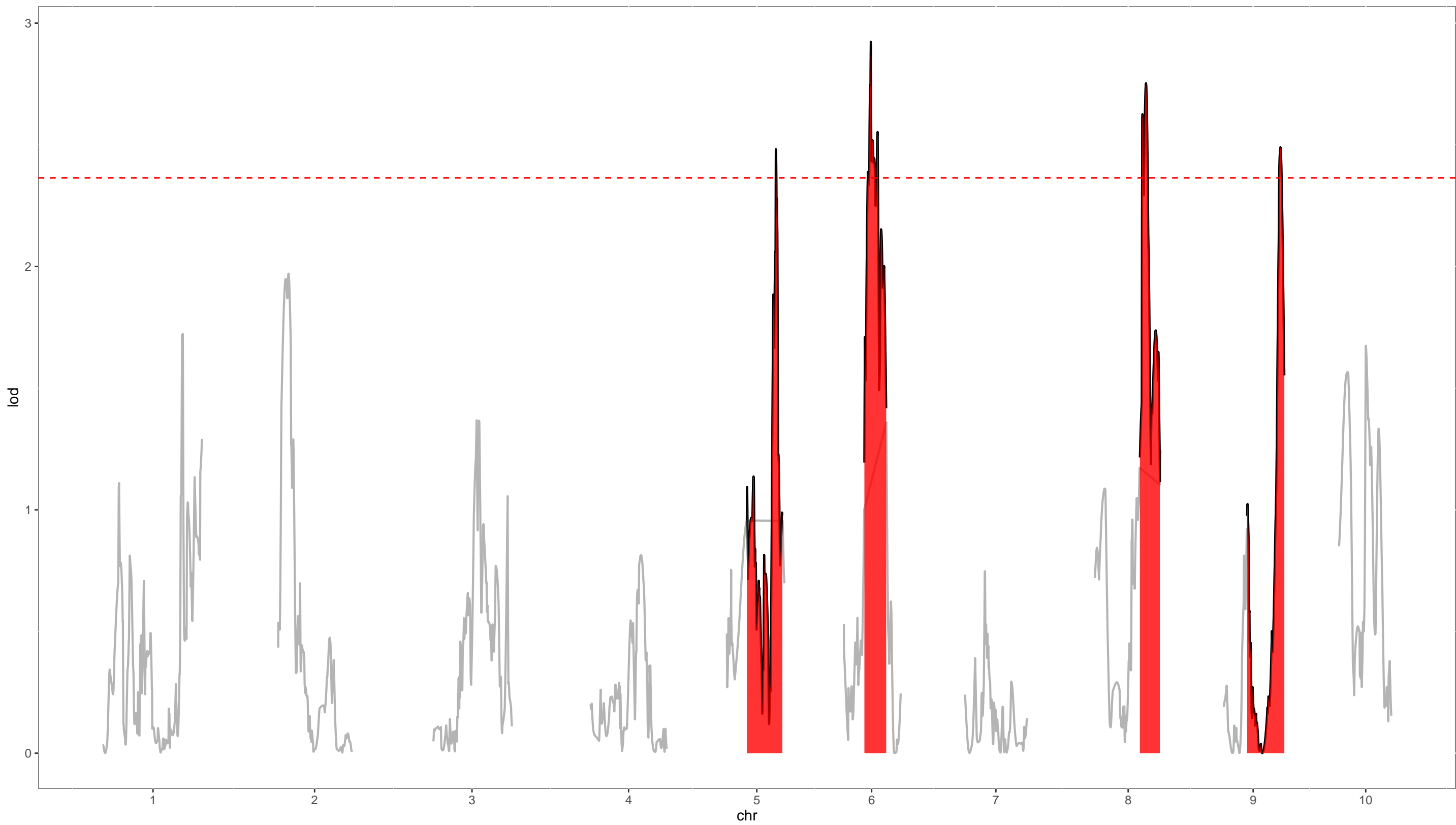
QTL analysis for int\_additive covariate for Na\_leaf.i



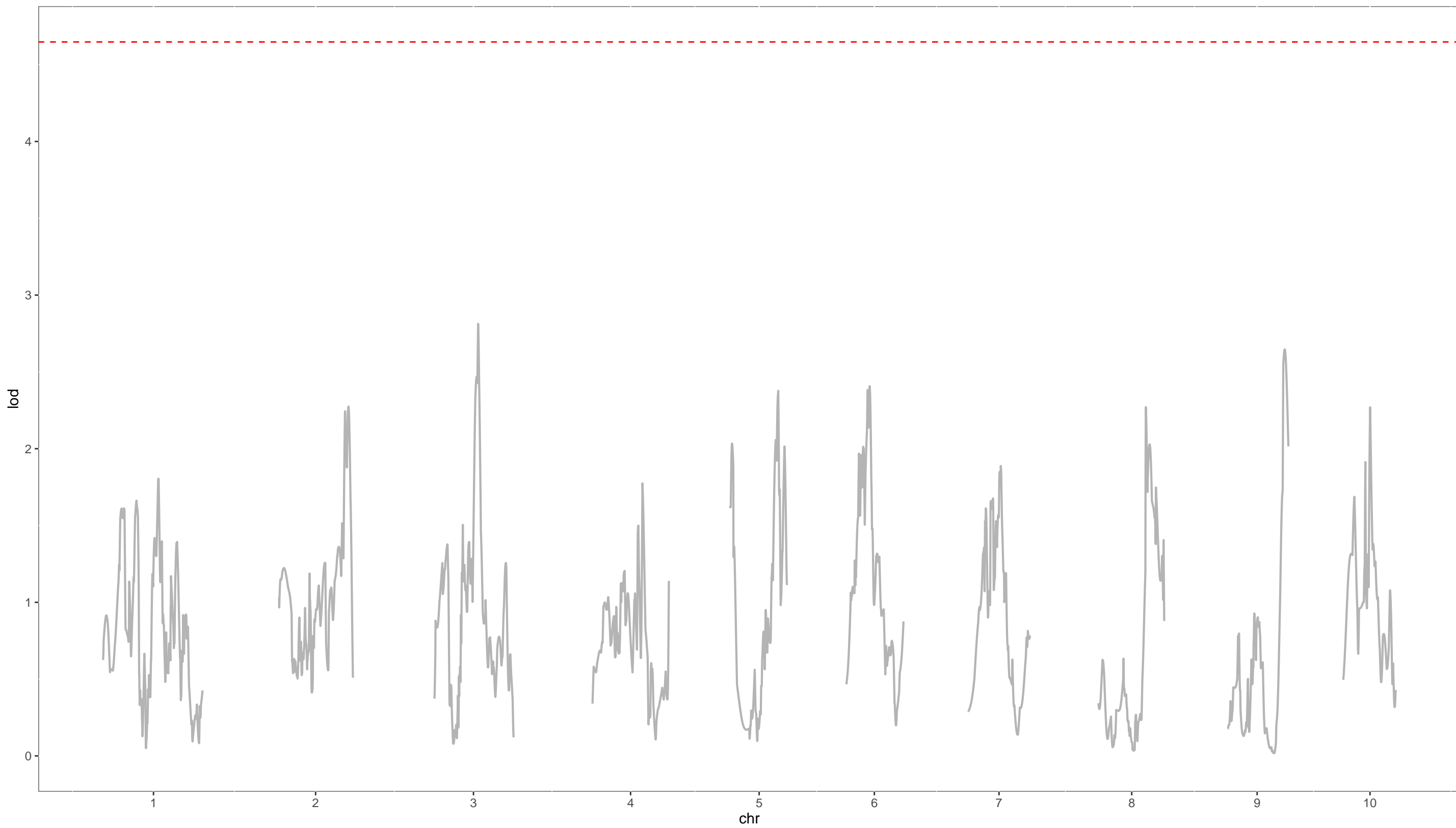
QTL analysis for int\_additive covariate for Na\_ratio.f



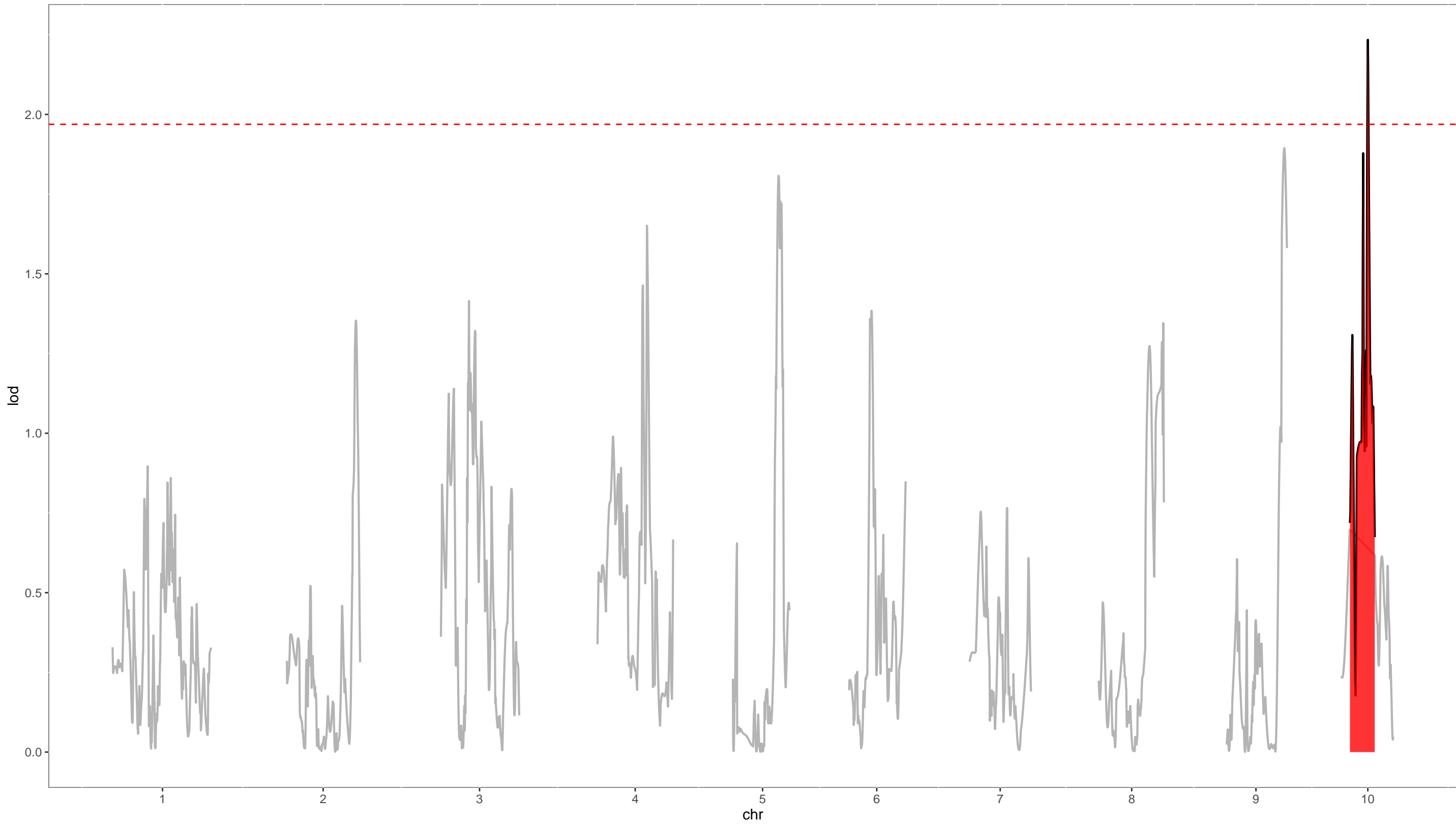
QTL analysis for int\_additive covariate for Na\_ratio.i



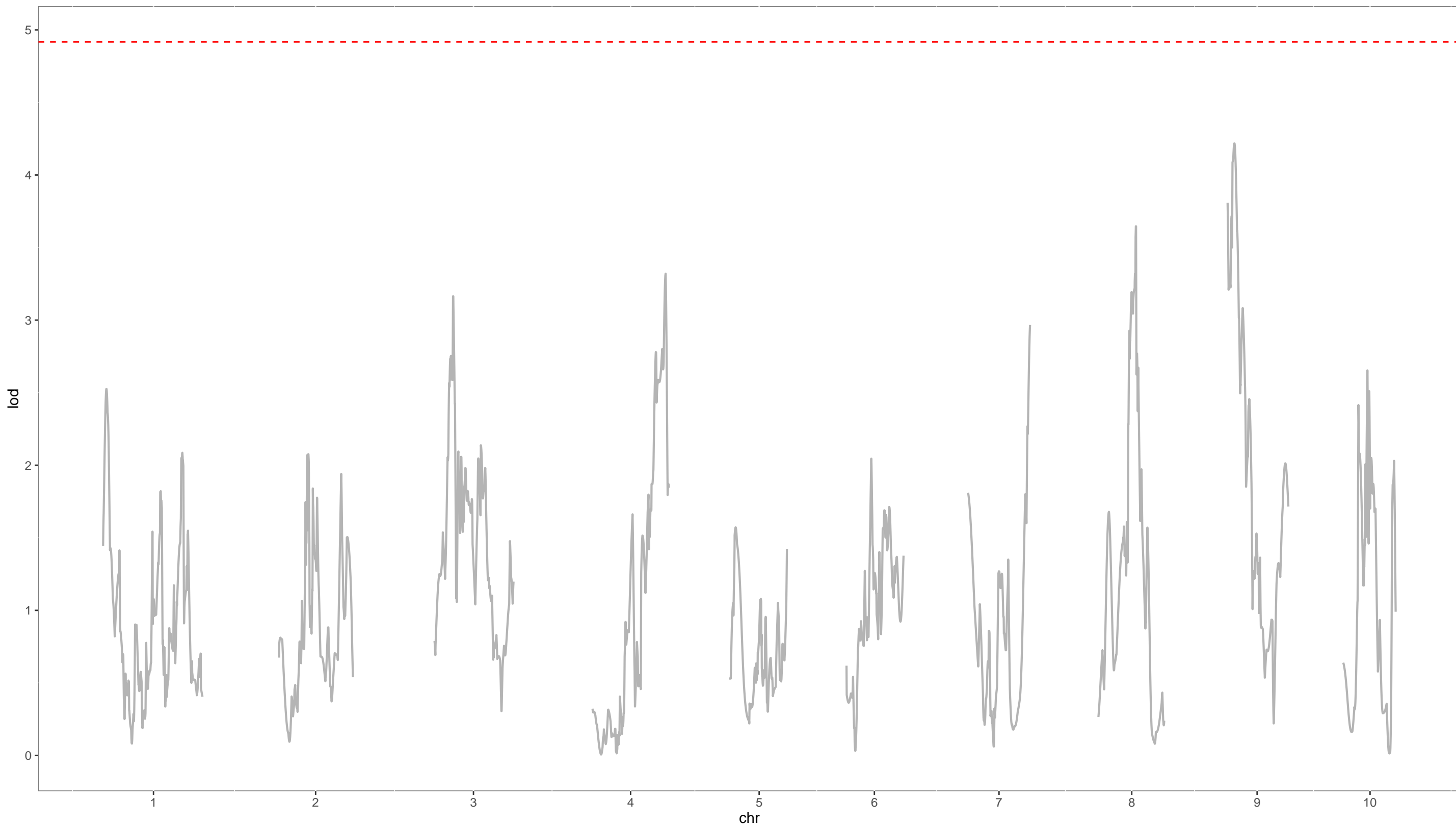
QTL analysis for int\_additive covariate for Na\_seed.f



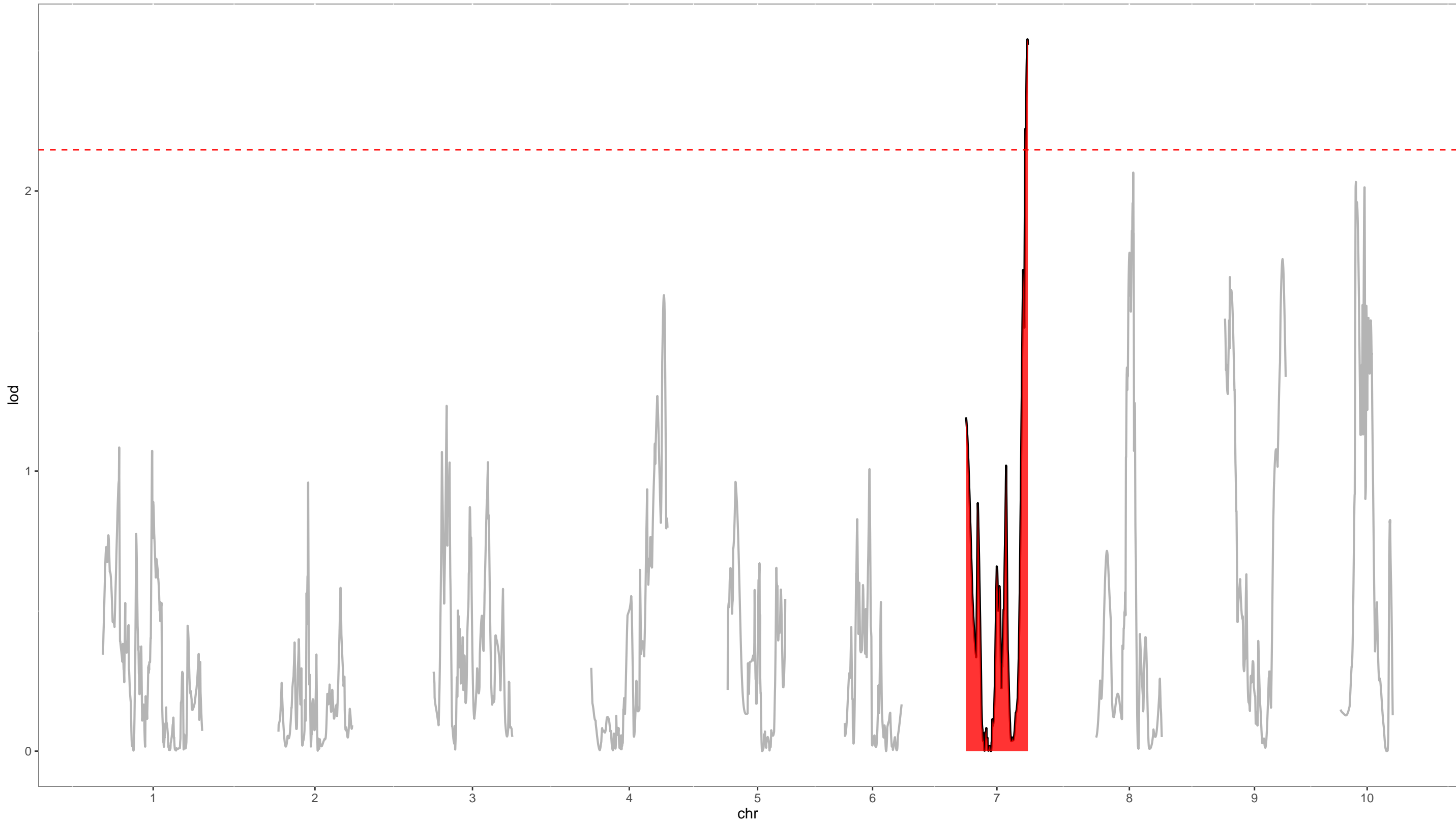
QTL analysis for int\_additive covariate for Na\_seed.i



QTL analysis for int\_additive covariate for Ni\_leaf.f

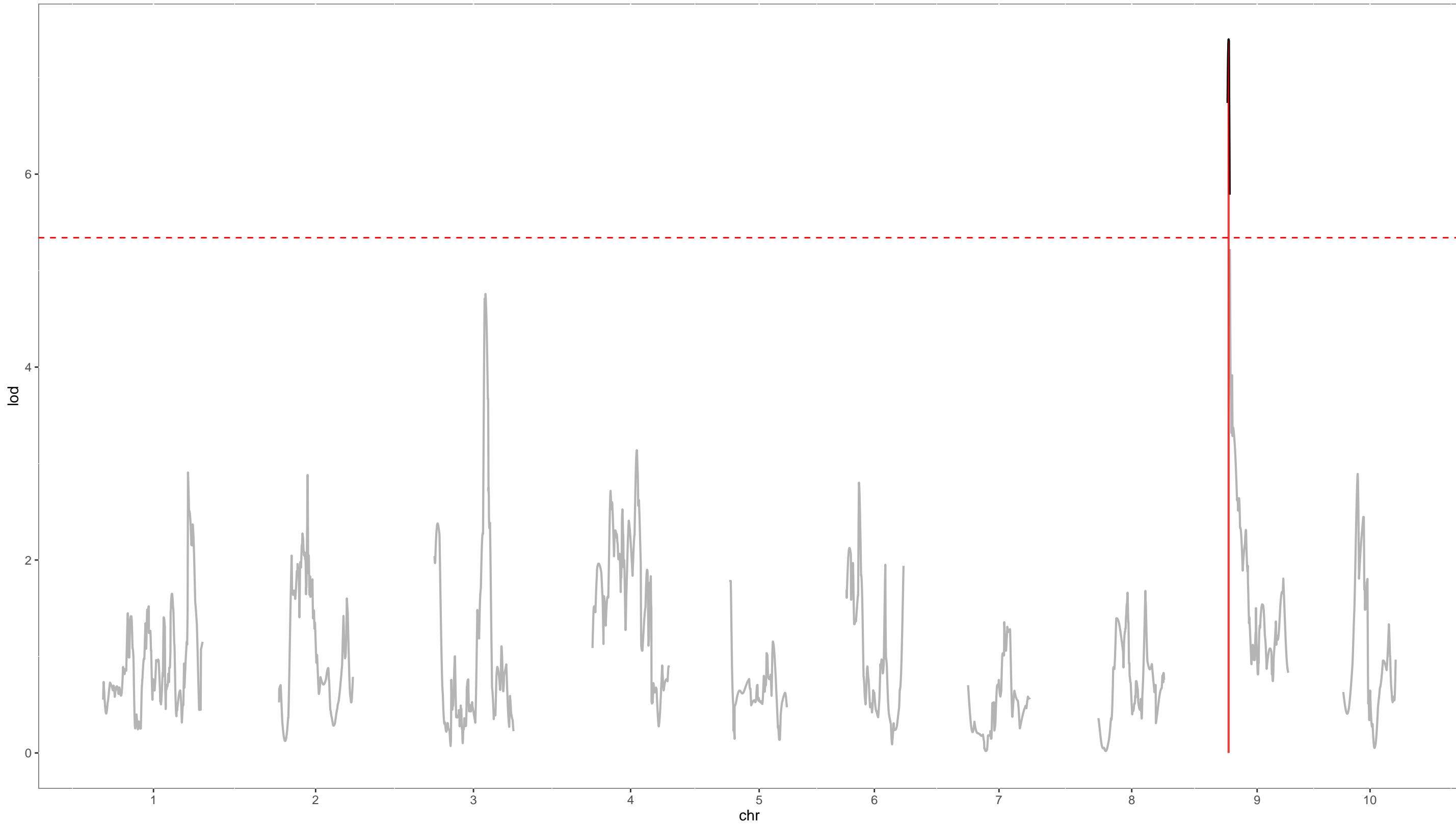


QTL analysis for int\_additive covariate for Ni\_leaf.i

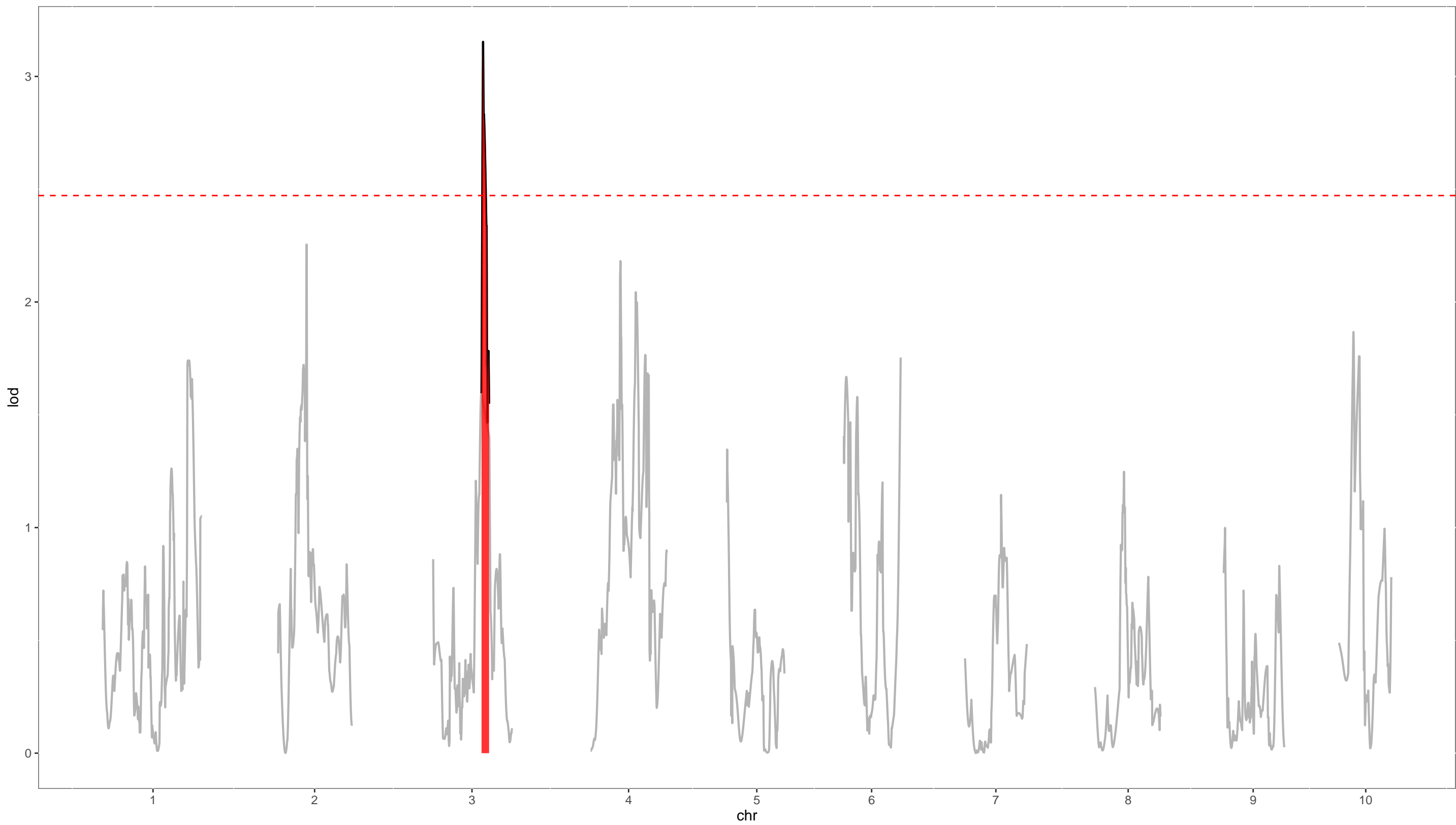




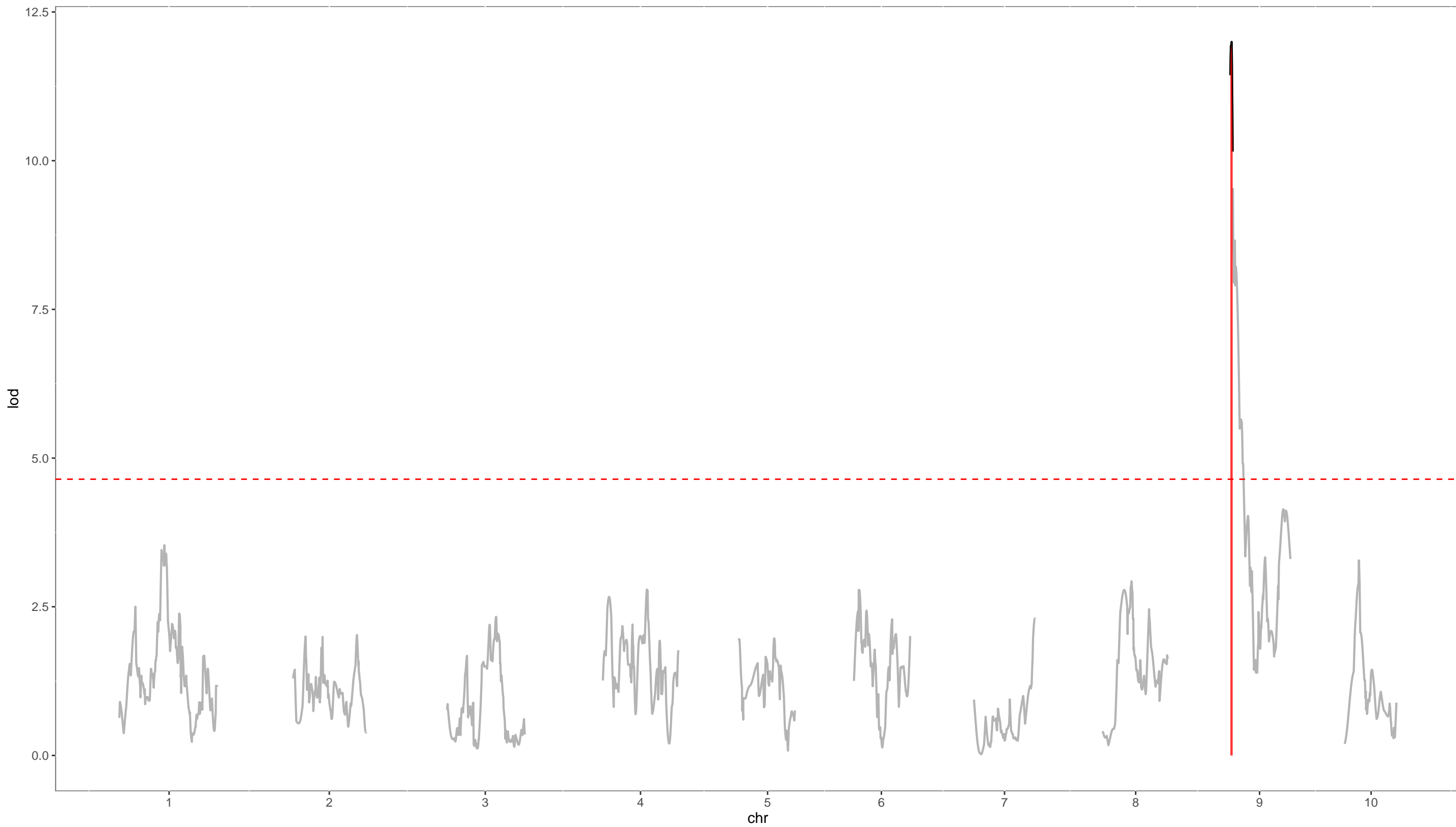
QTL analysis for int\_additive covariate for Ni\_ratio.f



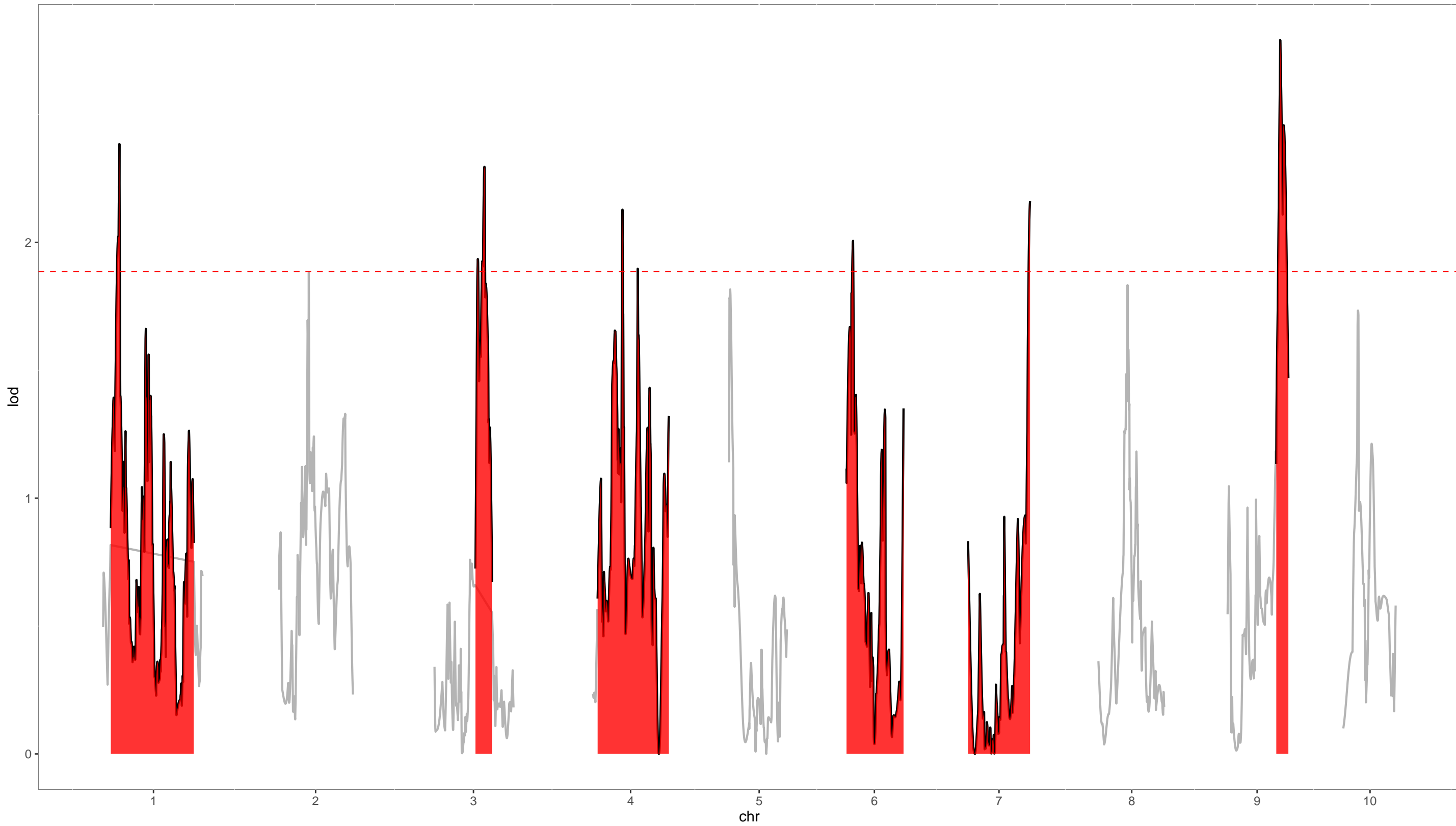
QTL analysis for int\_additive covariate for Ni\_ratio.i



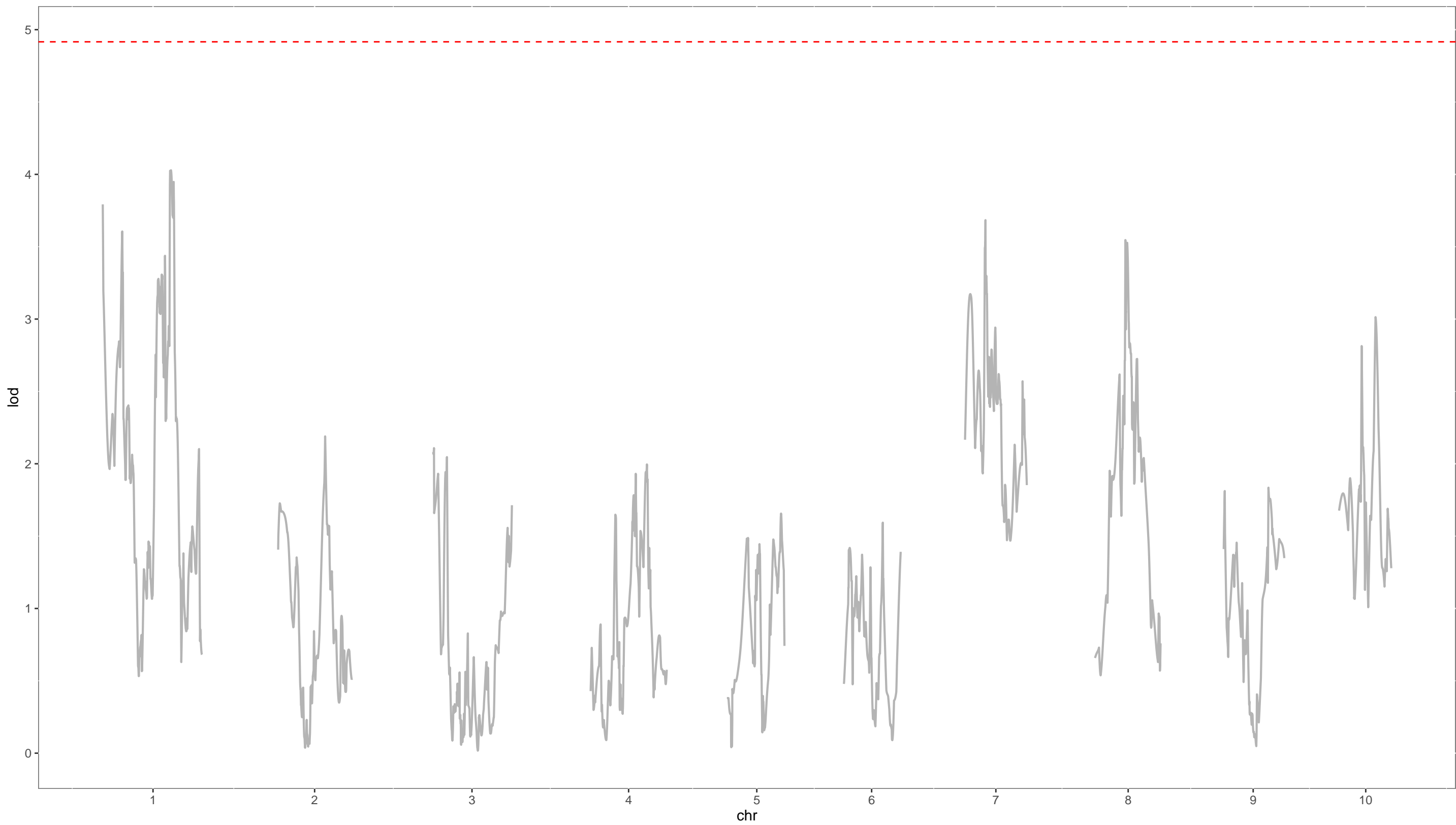
QTL analysis for int\_additive covariate for Ni\_seed.f



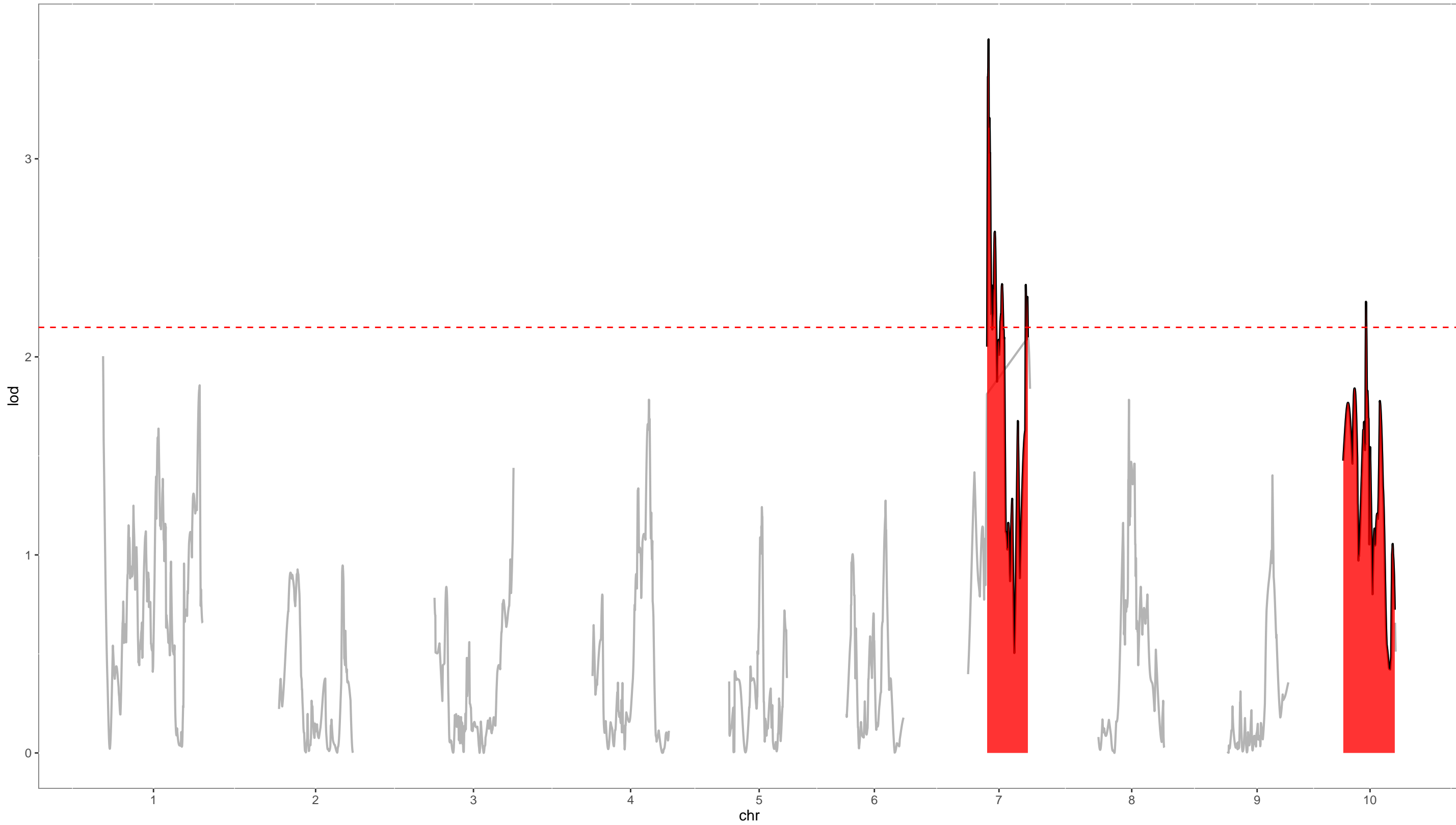
QTL analysis for int\_additive covariate for Ni\_seed.i



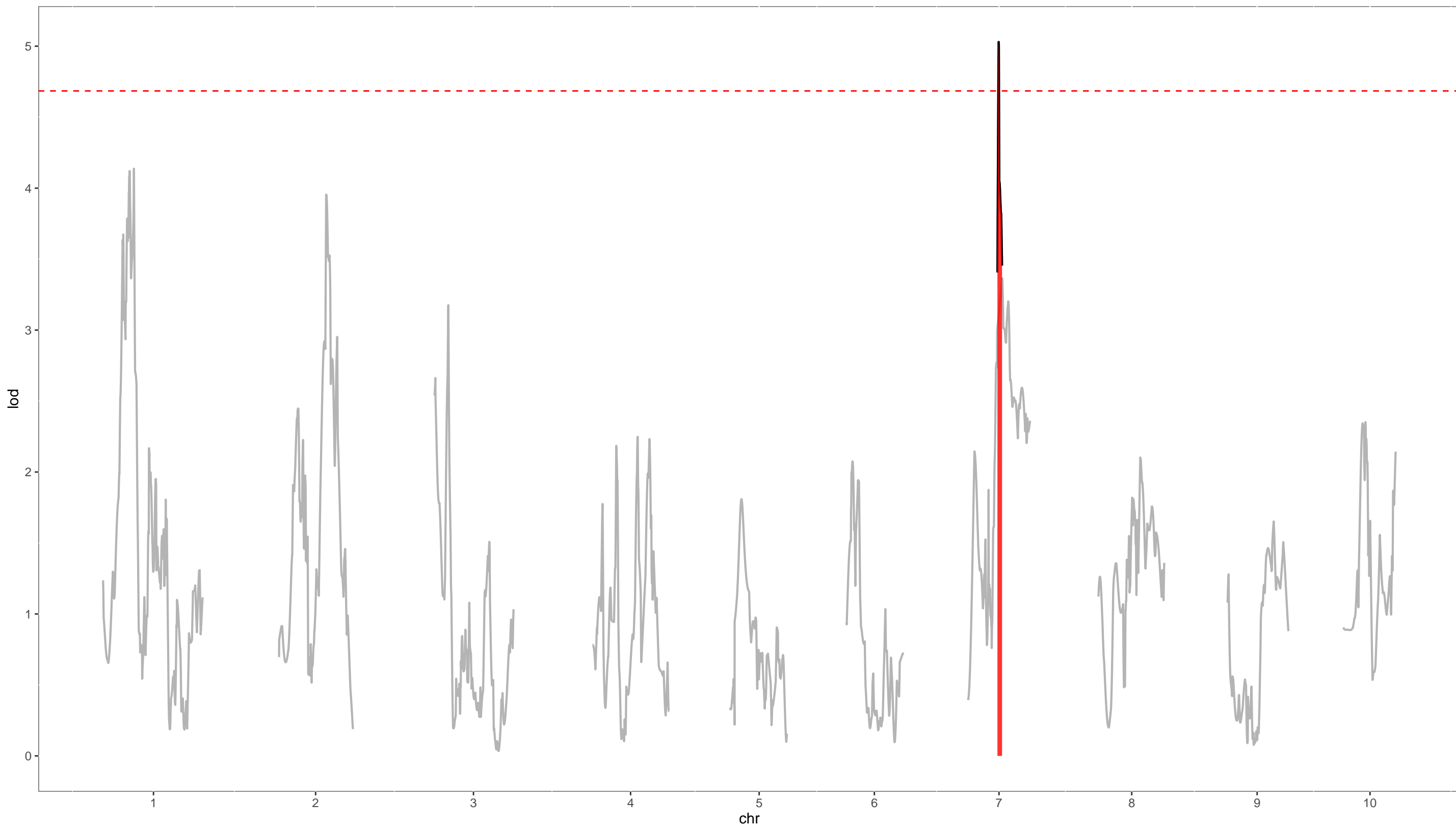
## QTL analysis for int\_additive covariate for P\_leaf.f



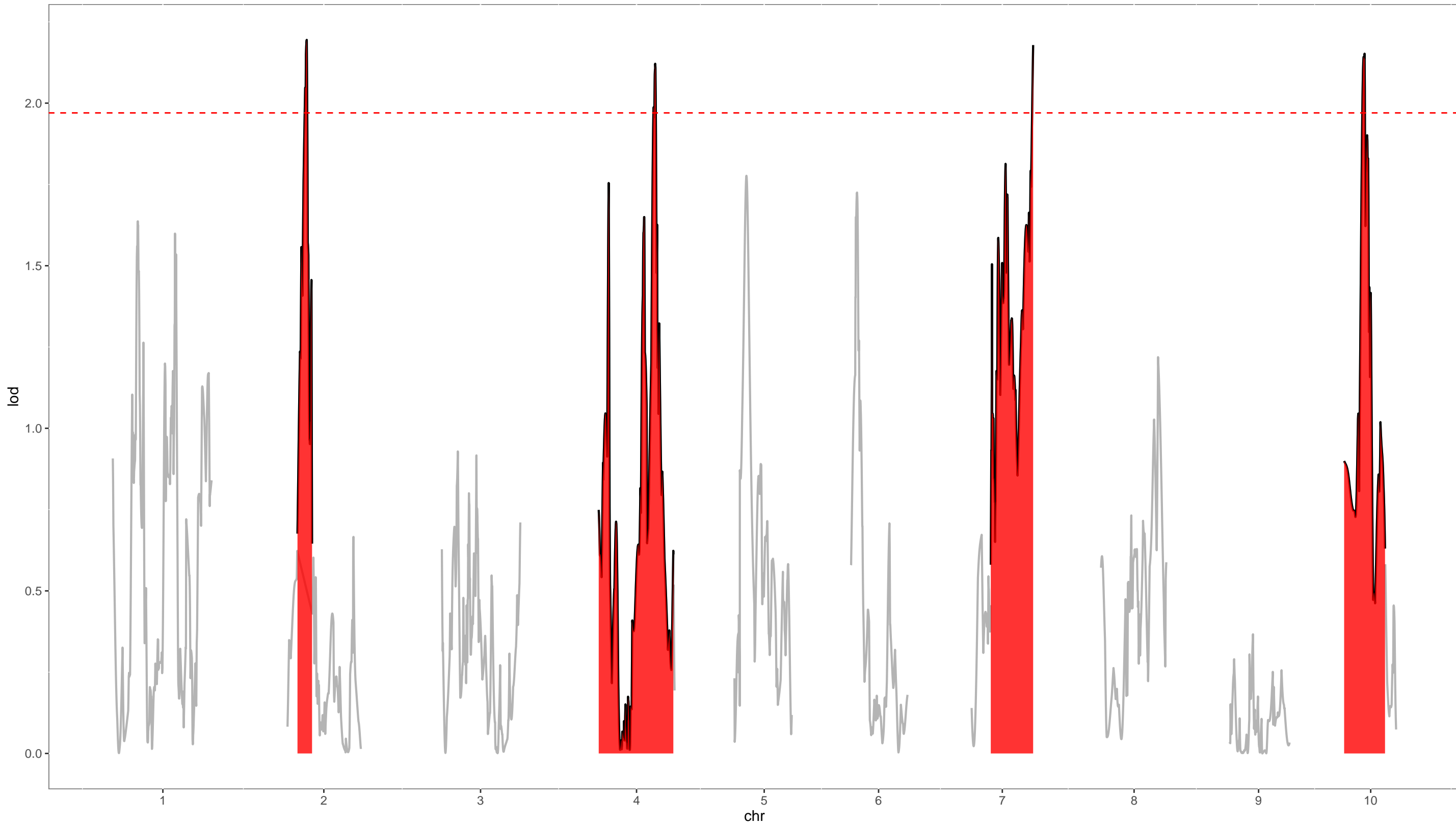
QTL analysis for int\_additive covariate for P\_leaf.i



QTL analysis for int\_additive covariate for P\_ratio.f

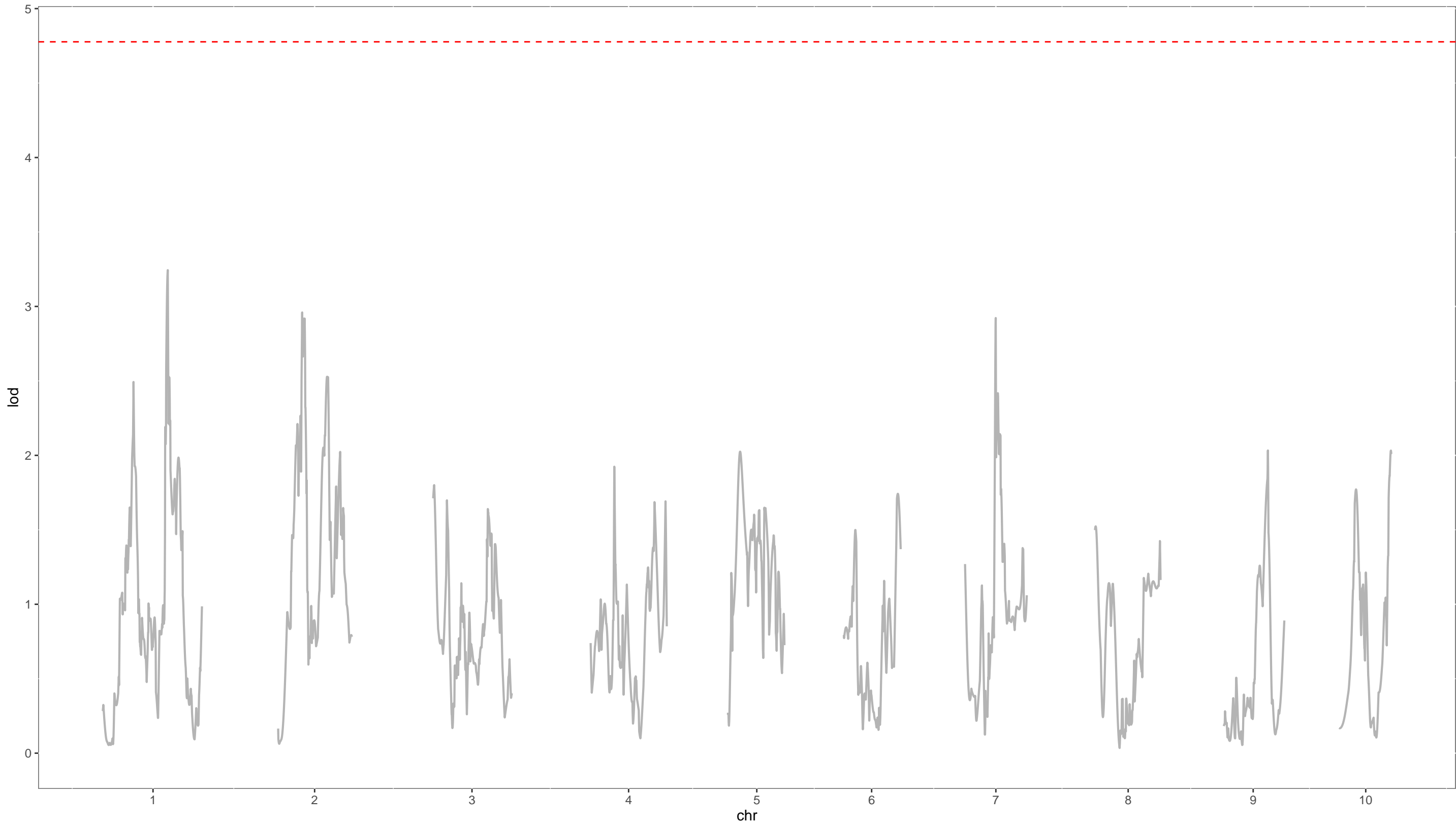


QTL analysis for int\_additive covariate for P\_ratio.i

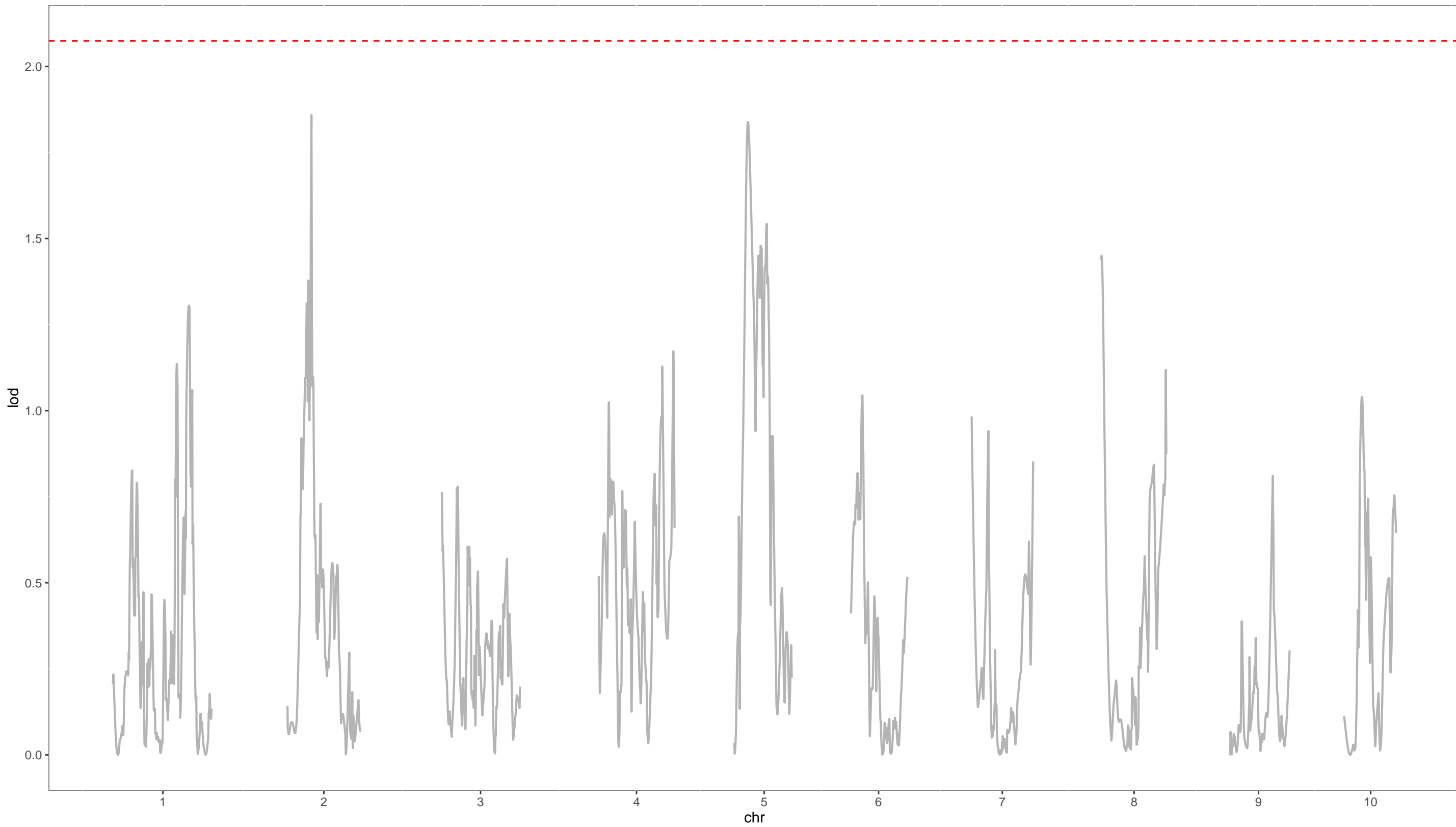




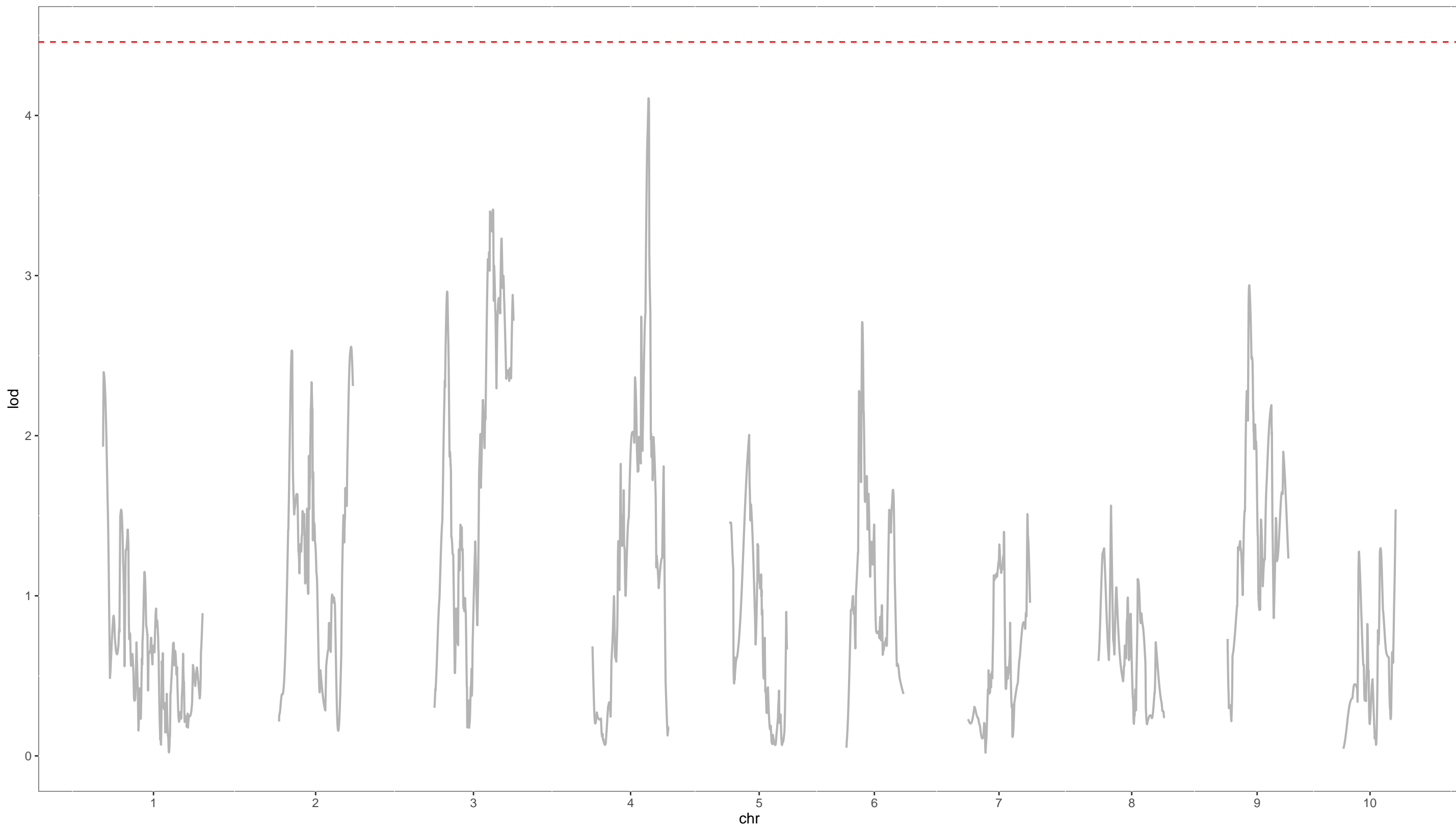
## QTL analysis for int\_additive covariate for P\_seed.f



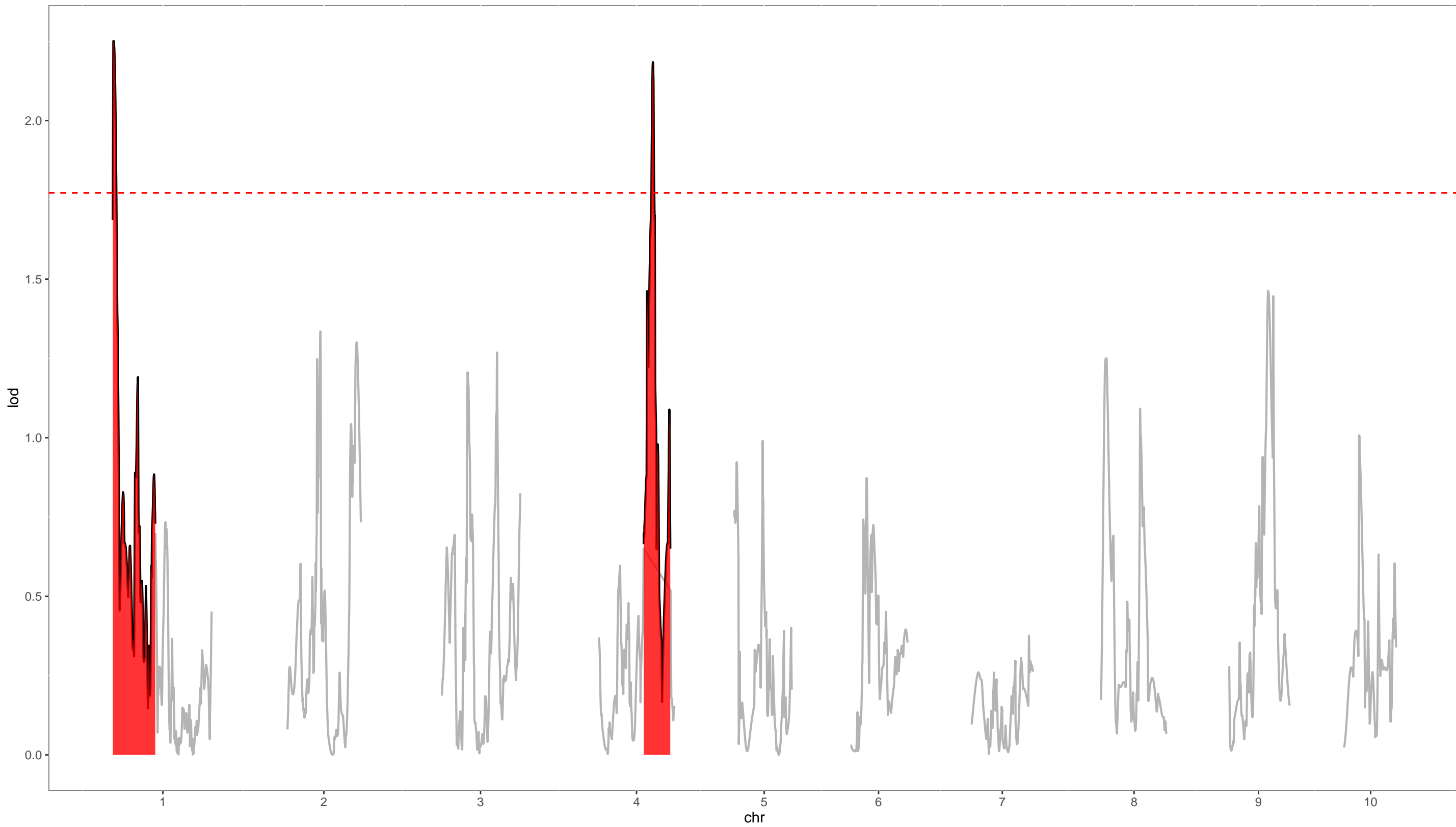
QTL analysis for int\_additive covariate for P\_seed.i



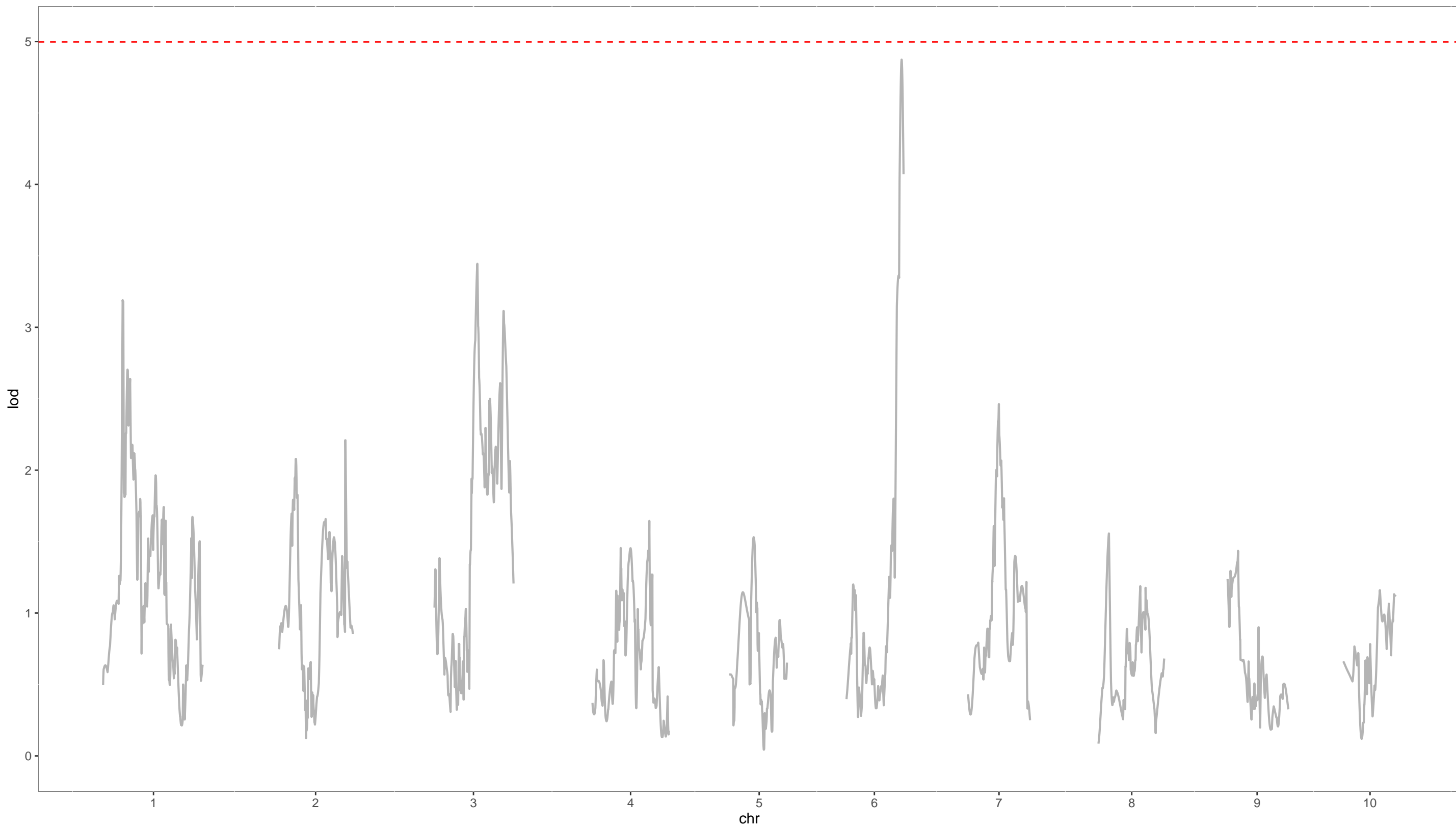
QTL analysis for int\_additive covariate for Rb\_leaf.f



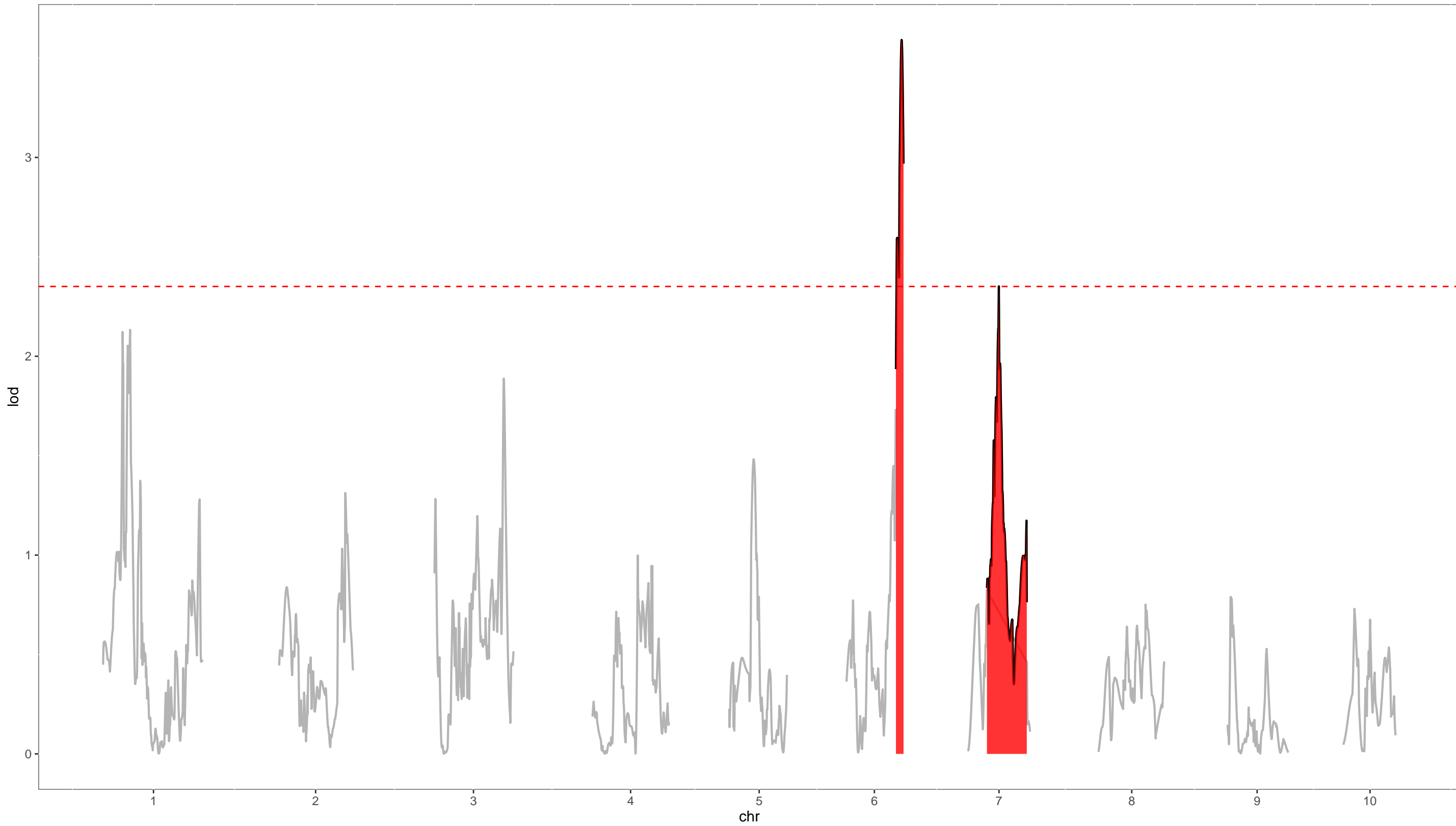
QTL analysis for int\_additive covariate for Rb\_leaf.i



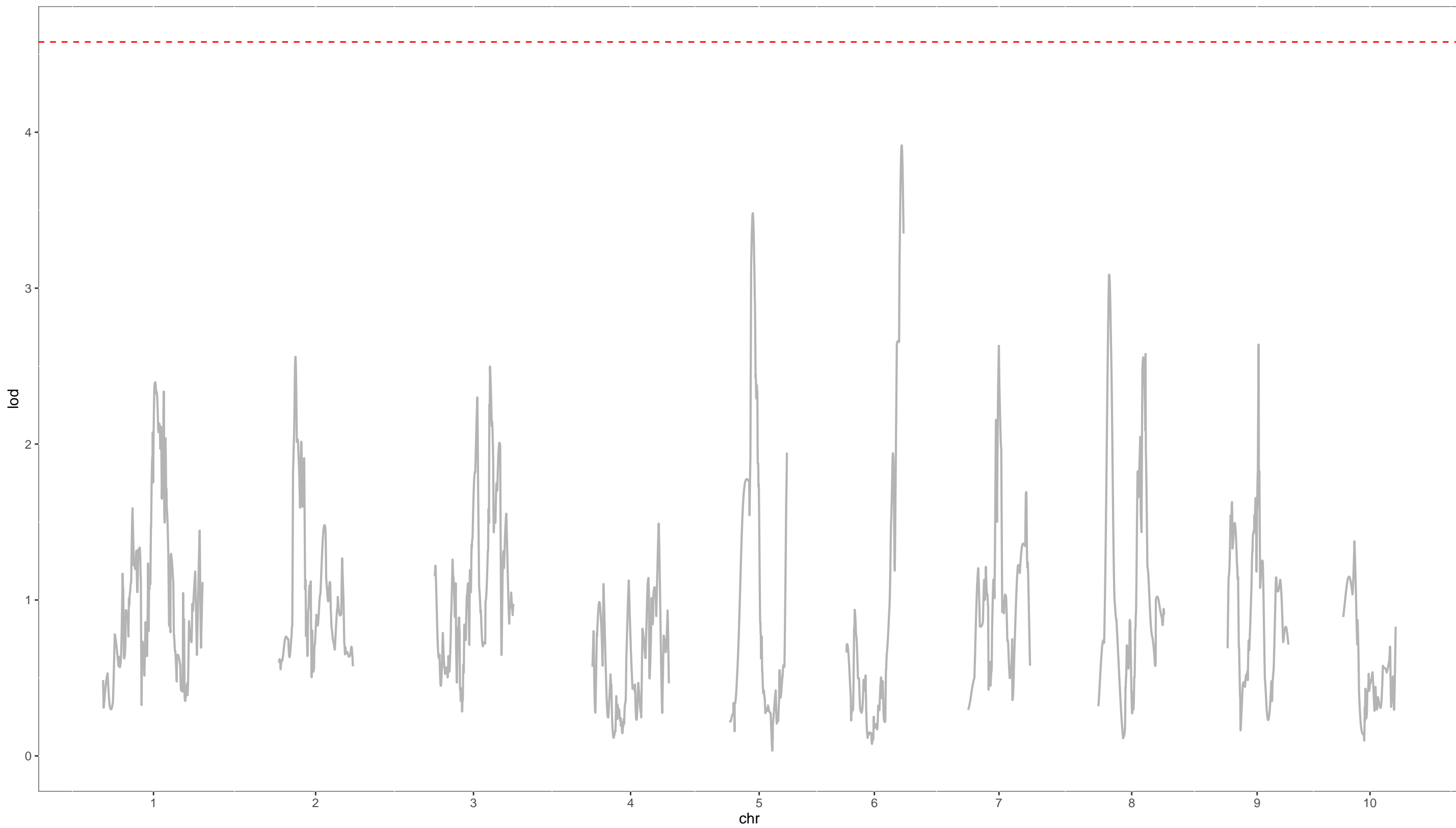
QTL analysis for int\_additive covariate for Rb\_ratio.f



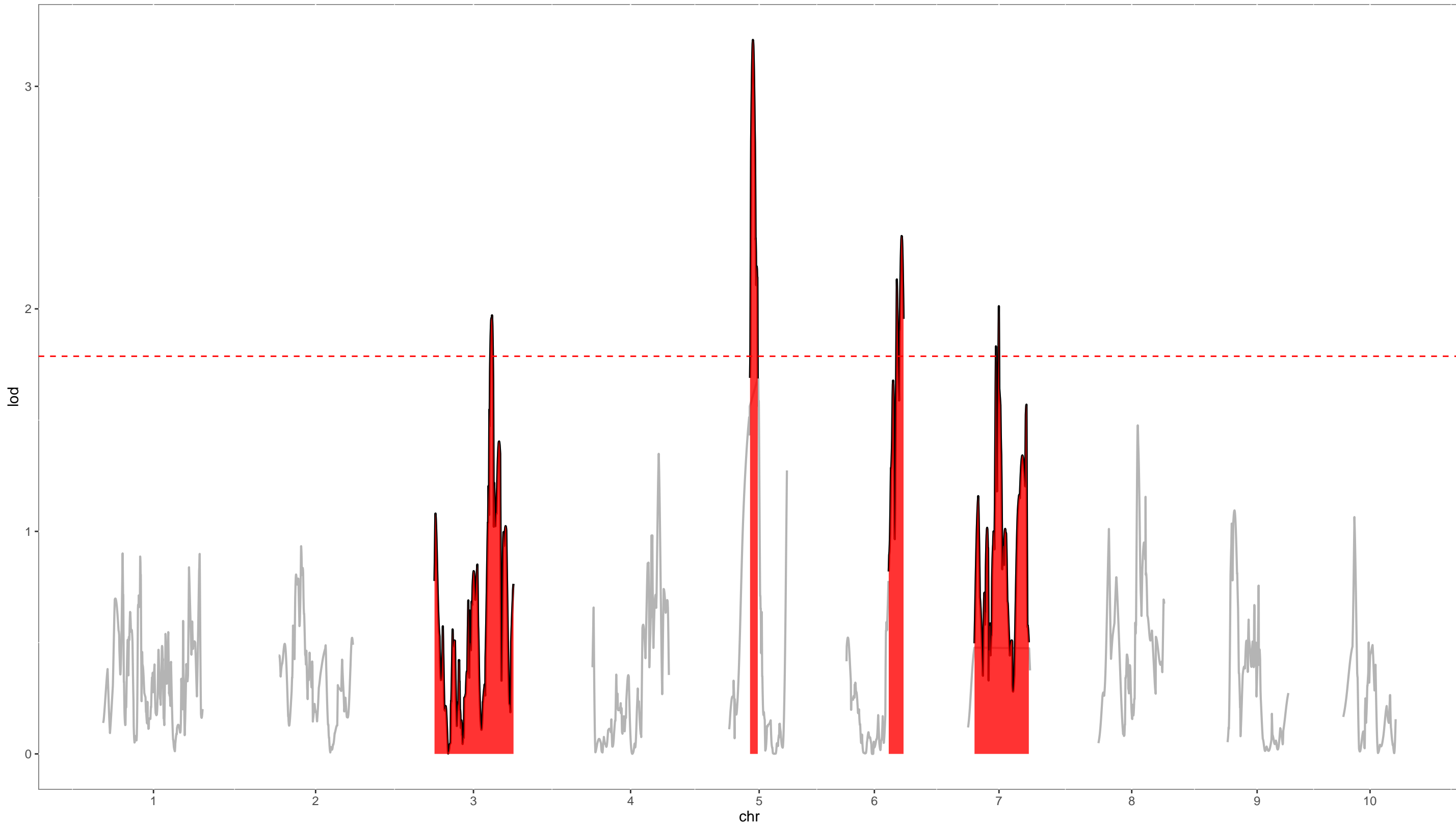
QTL analysis for int\_additive covariate for Rb\_ratio.i



QTL analysis for int\_additive covariate for Rb\_seed.f

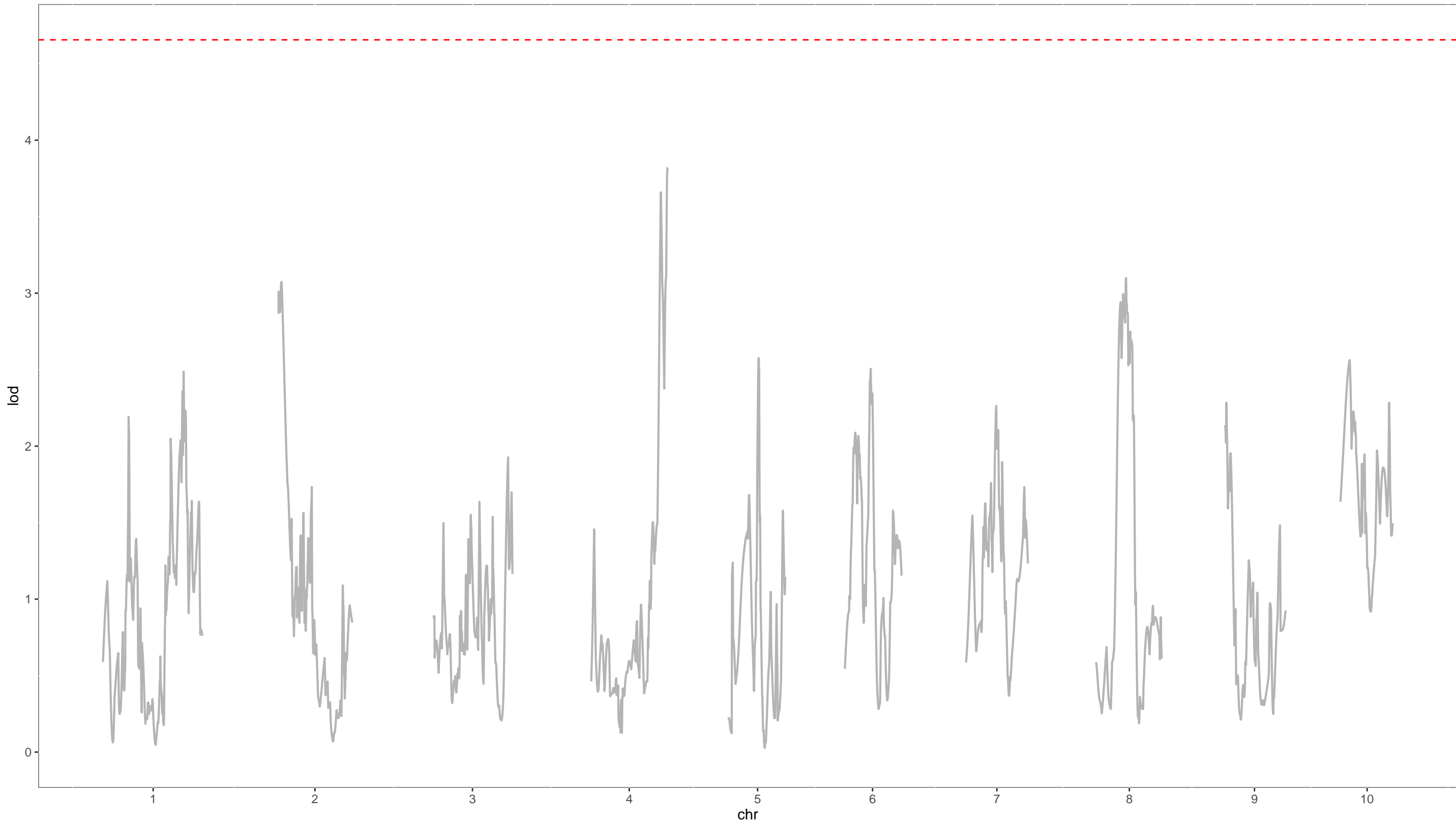


QTL analysis for int\_additive covariate for Rb\_seed.i

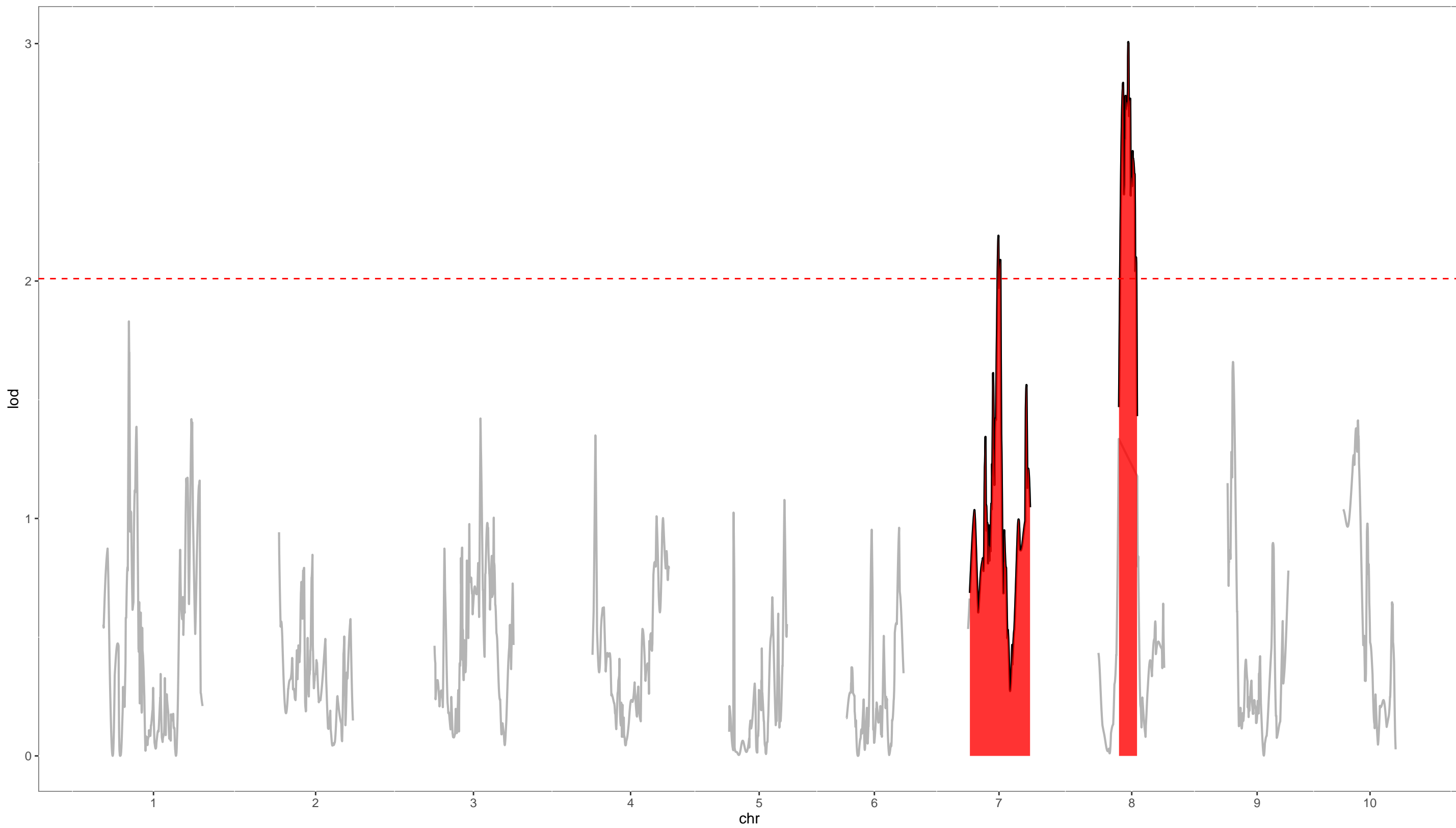




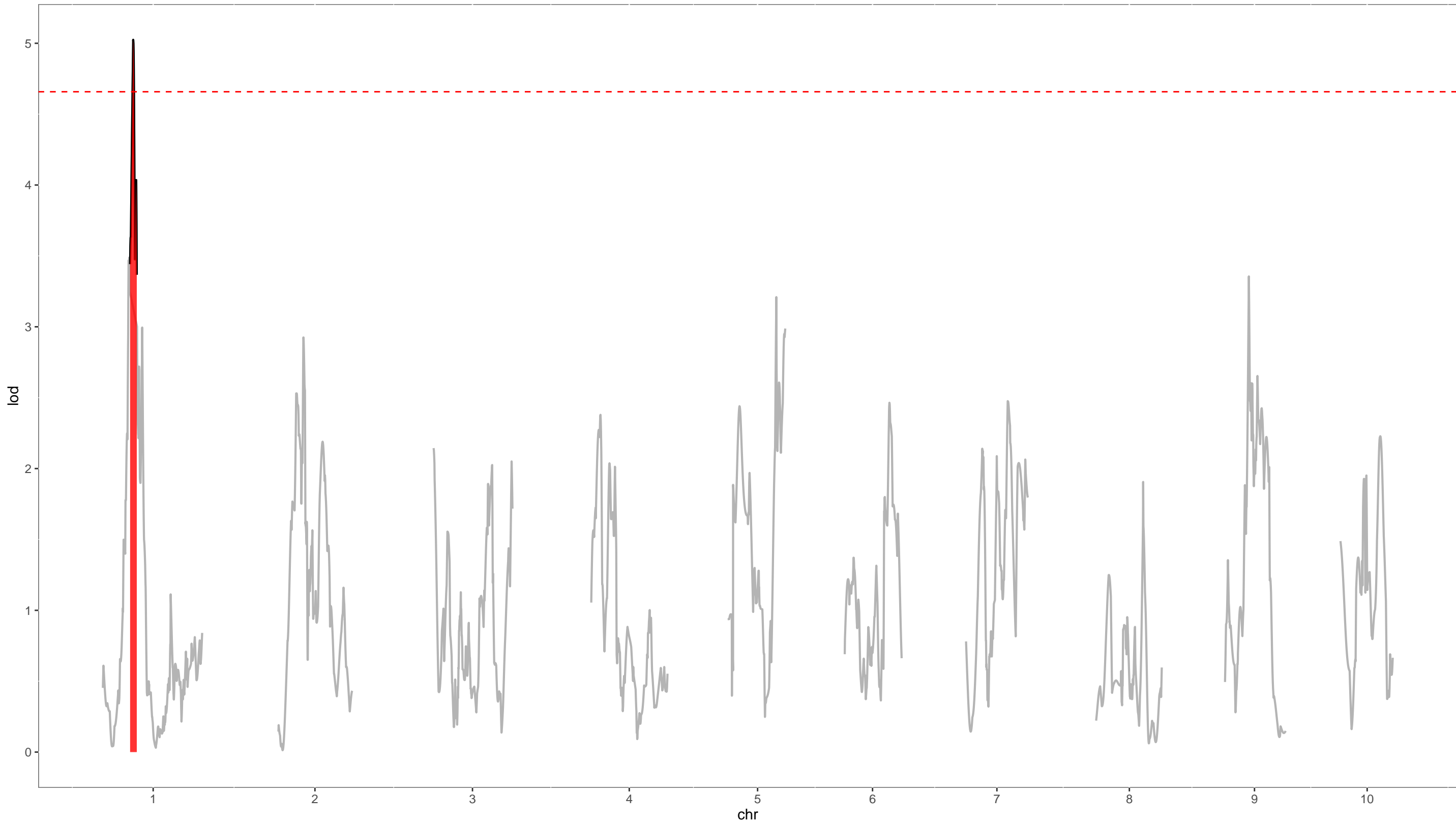
QTL analysis for int\_additive covariate for S\_leaf.f



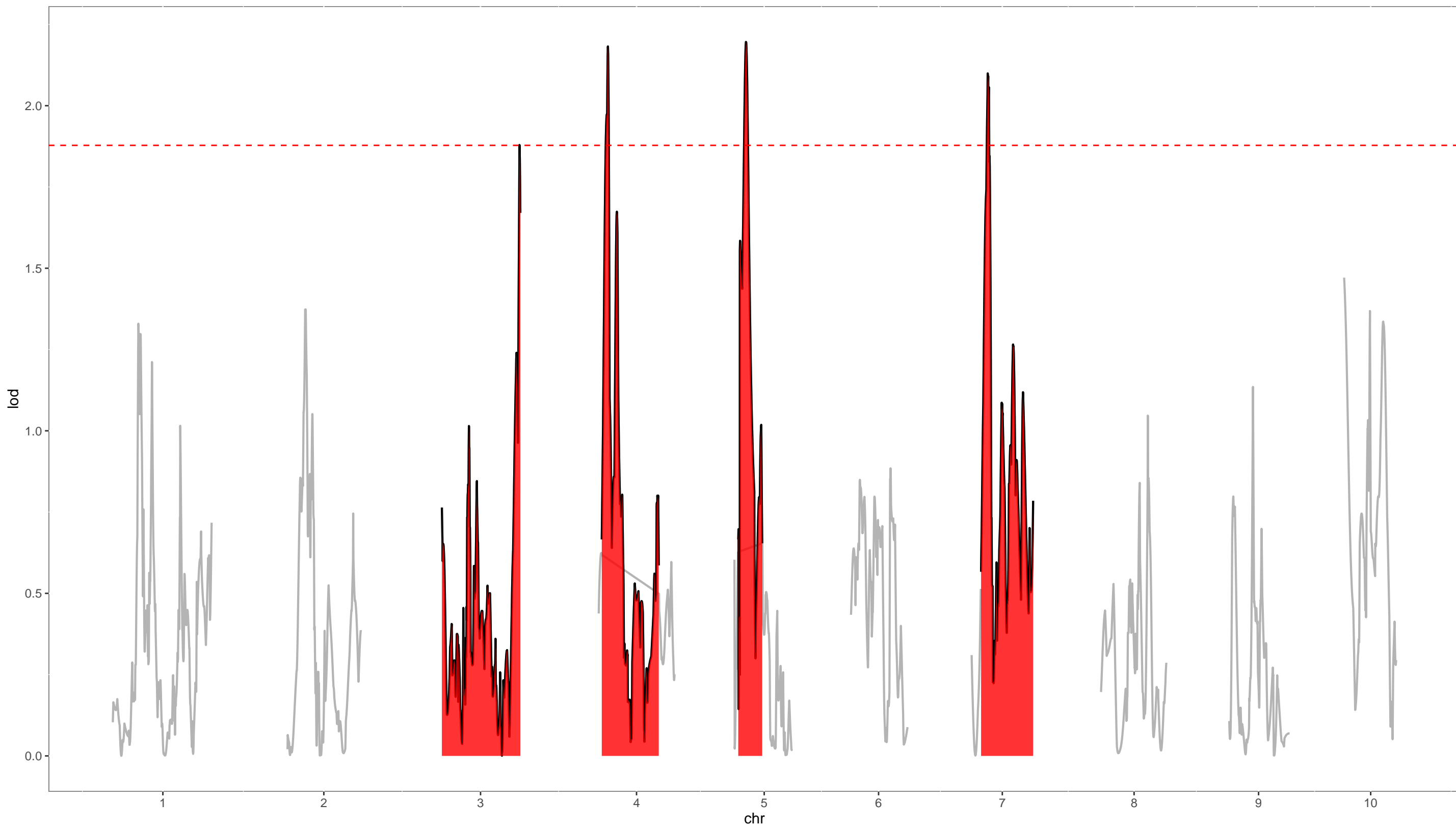
QTL analysis for int\_additive covariate for S\_leaf.i



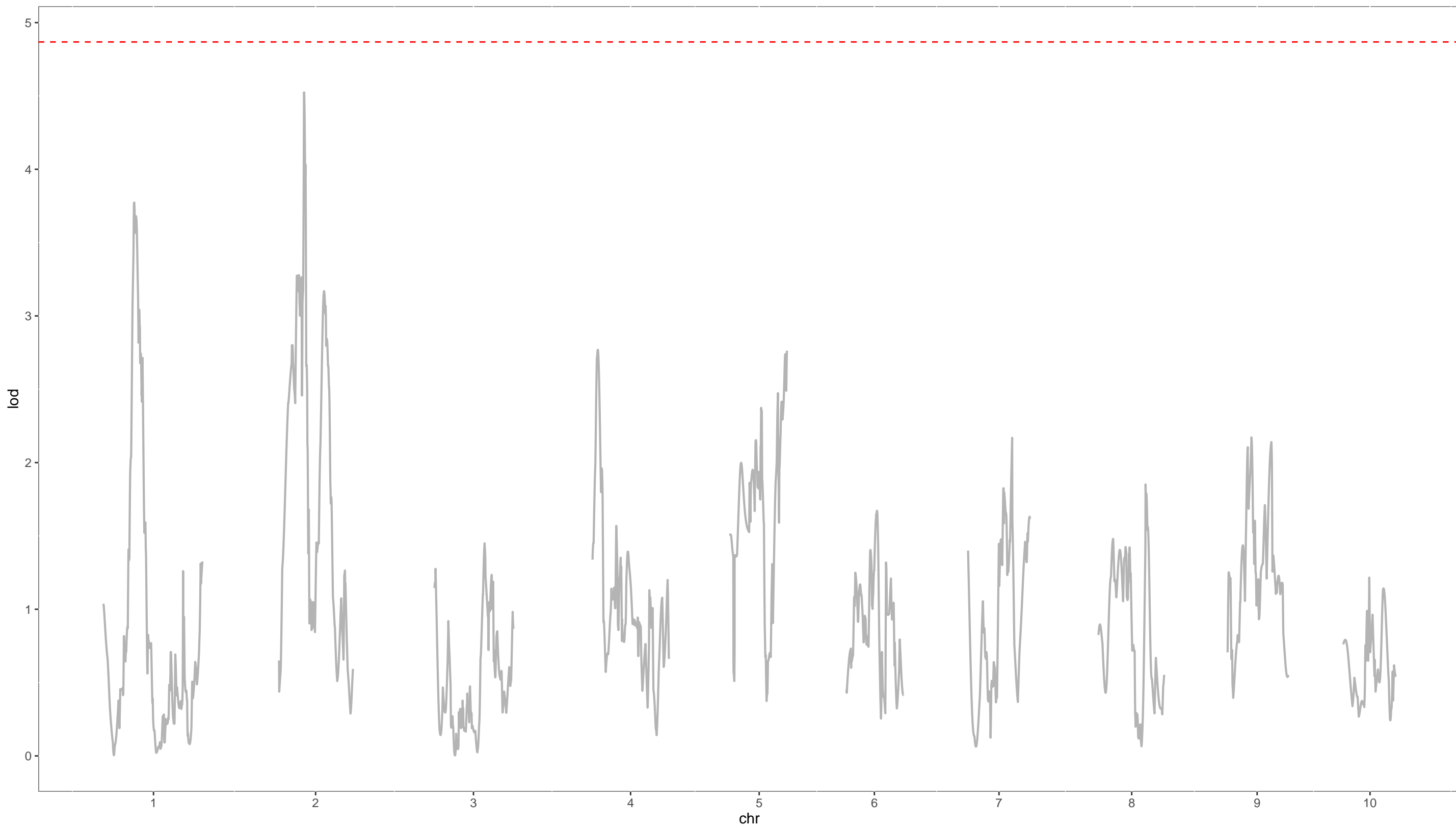
QTL analysis for int\_additive covariate for S\_ratio.f



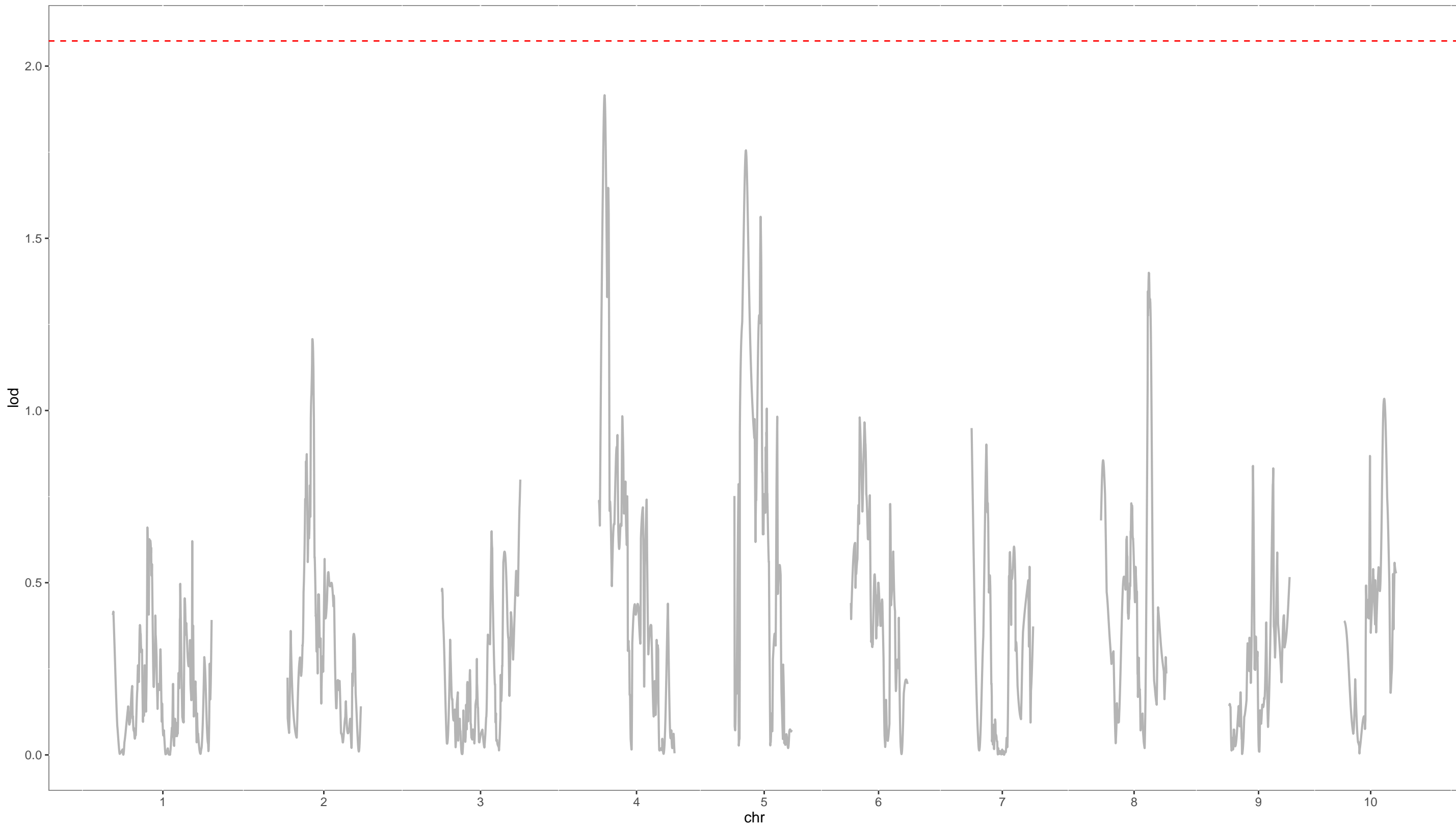
QTL analysis for int\_additive covariate for S\_ratio.i



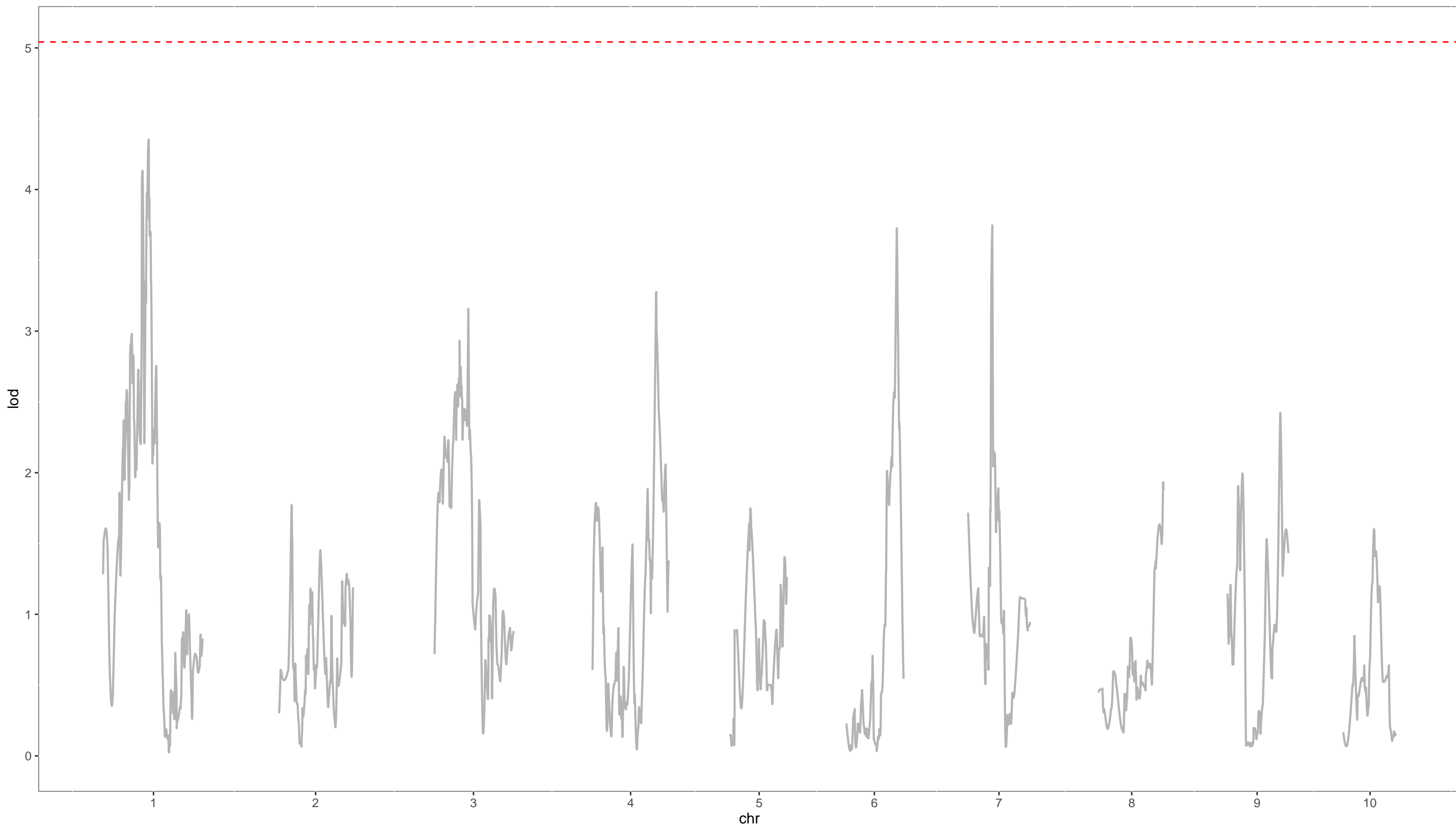
## QTL analysis for int\_additive covariate for S\_seed.f



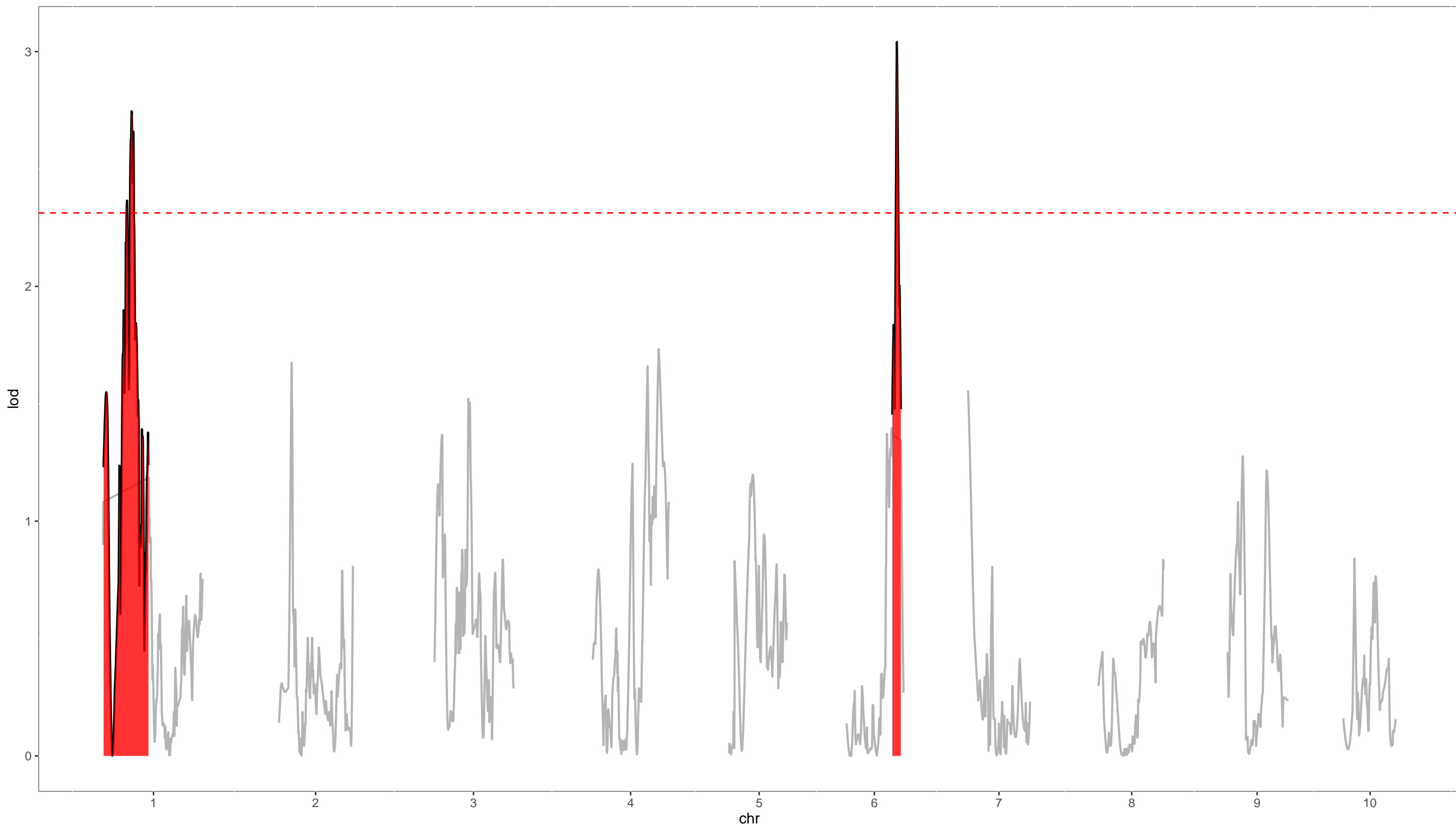
QTL analysis for int\_additive covariate for S\_seed.i



QTL analysis for int\_additive covariate for Se\_leaf.f

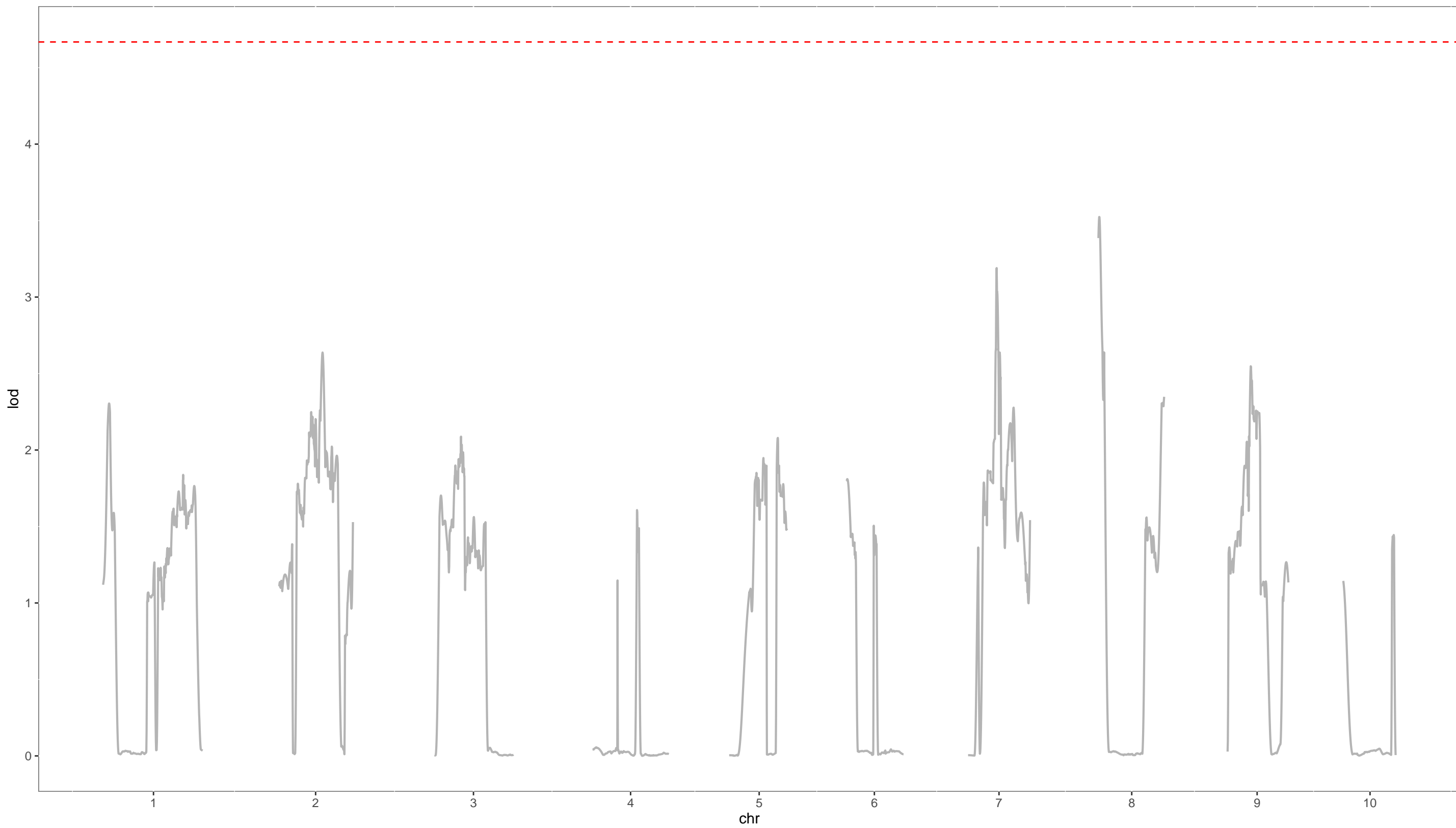


QTL analysis for int\_additive covariate for Se\_leaf.i

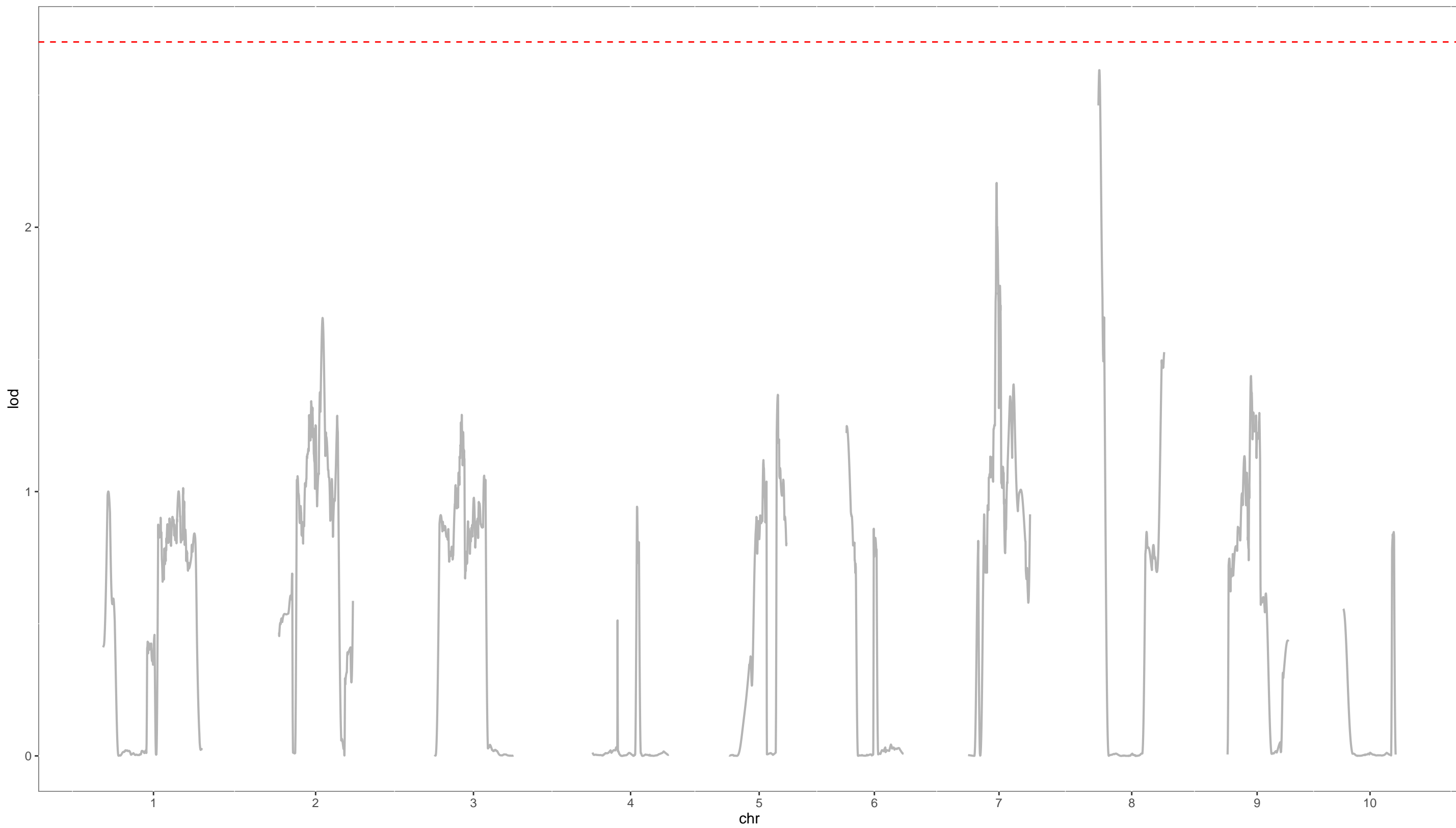




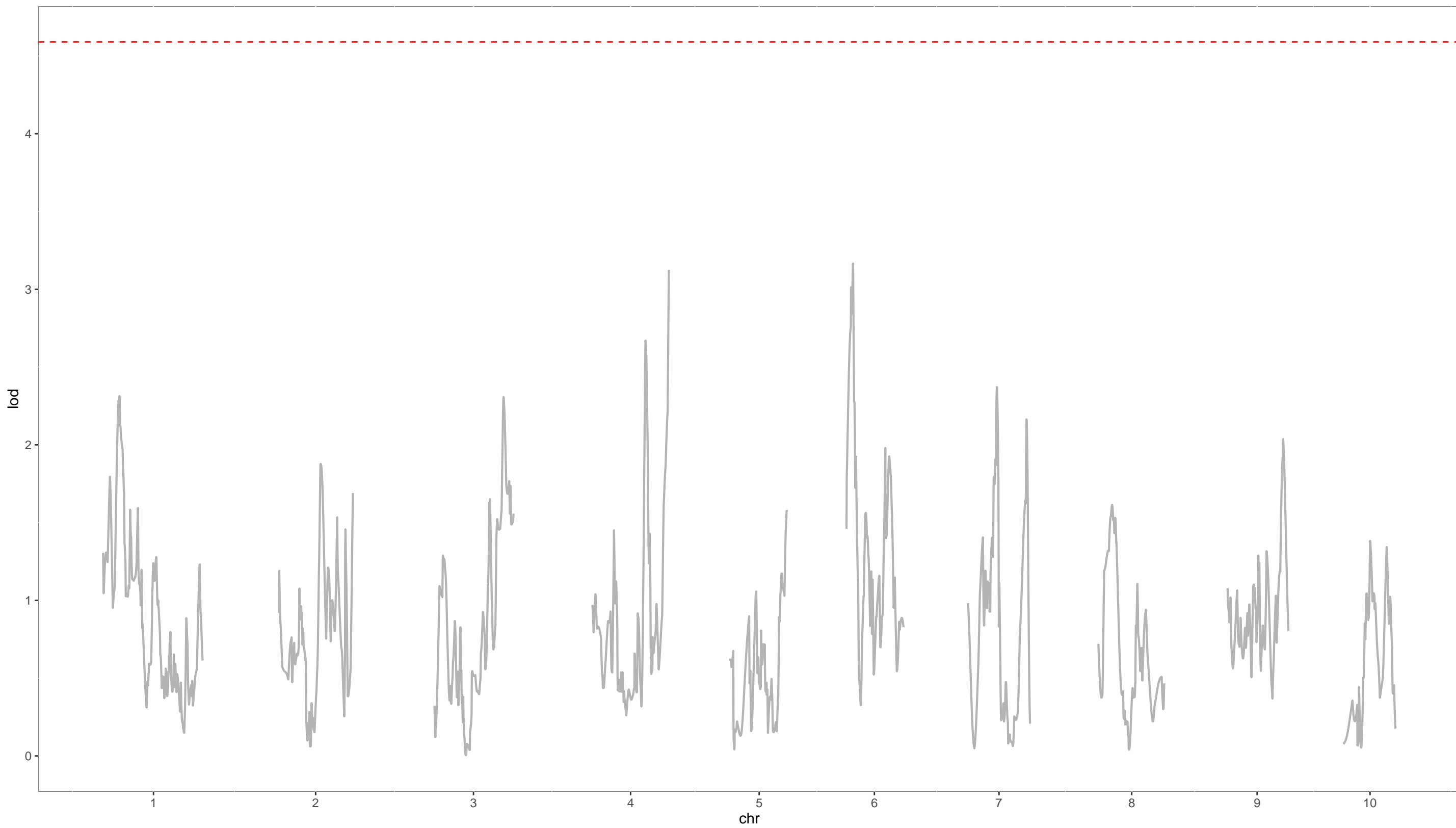
QTL analysis for int\_additive covariate for Se\_ratio.f



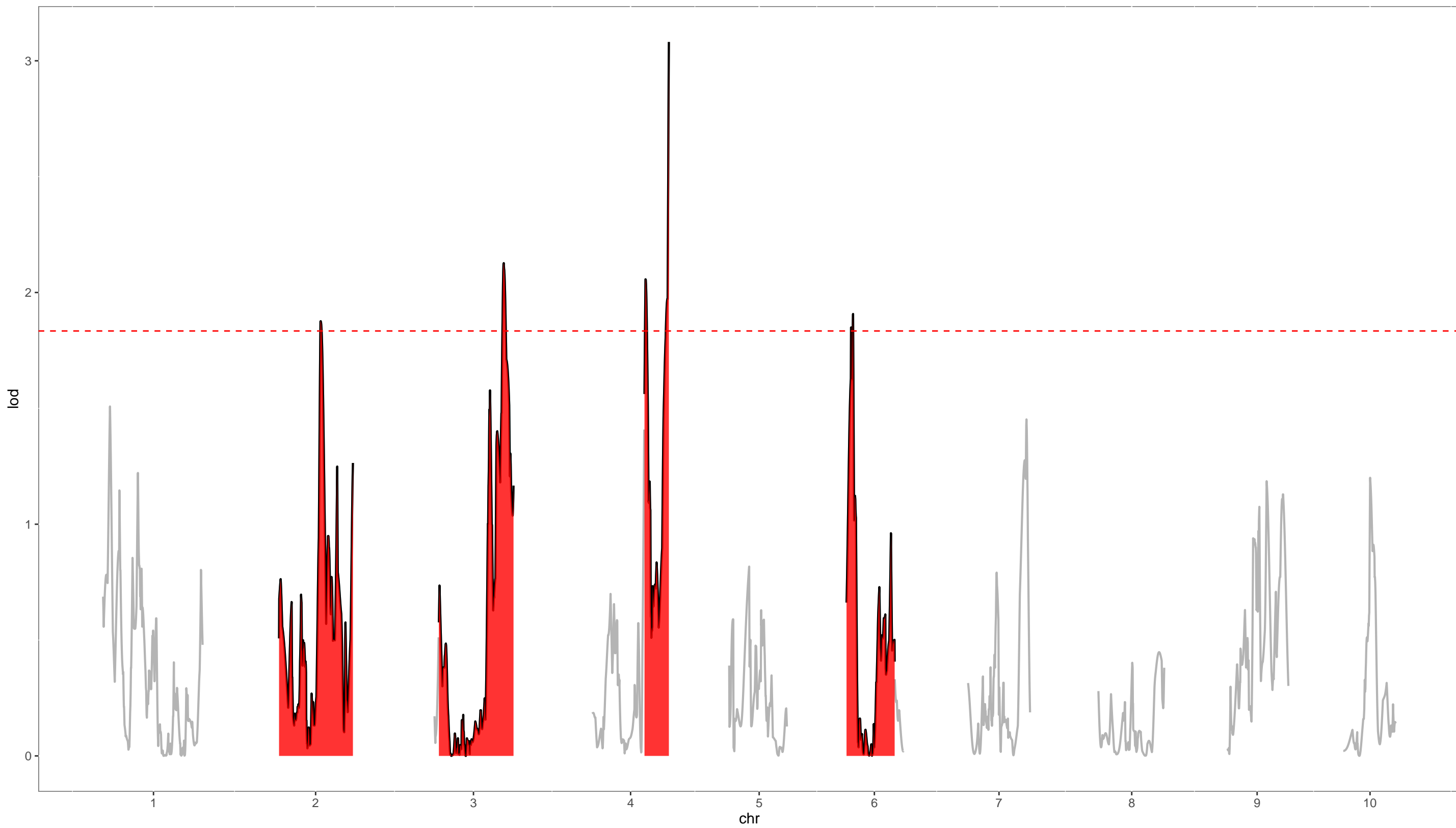
QTL analysis for int\_additive covariate for Se\_ratio.i



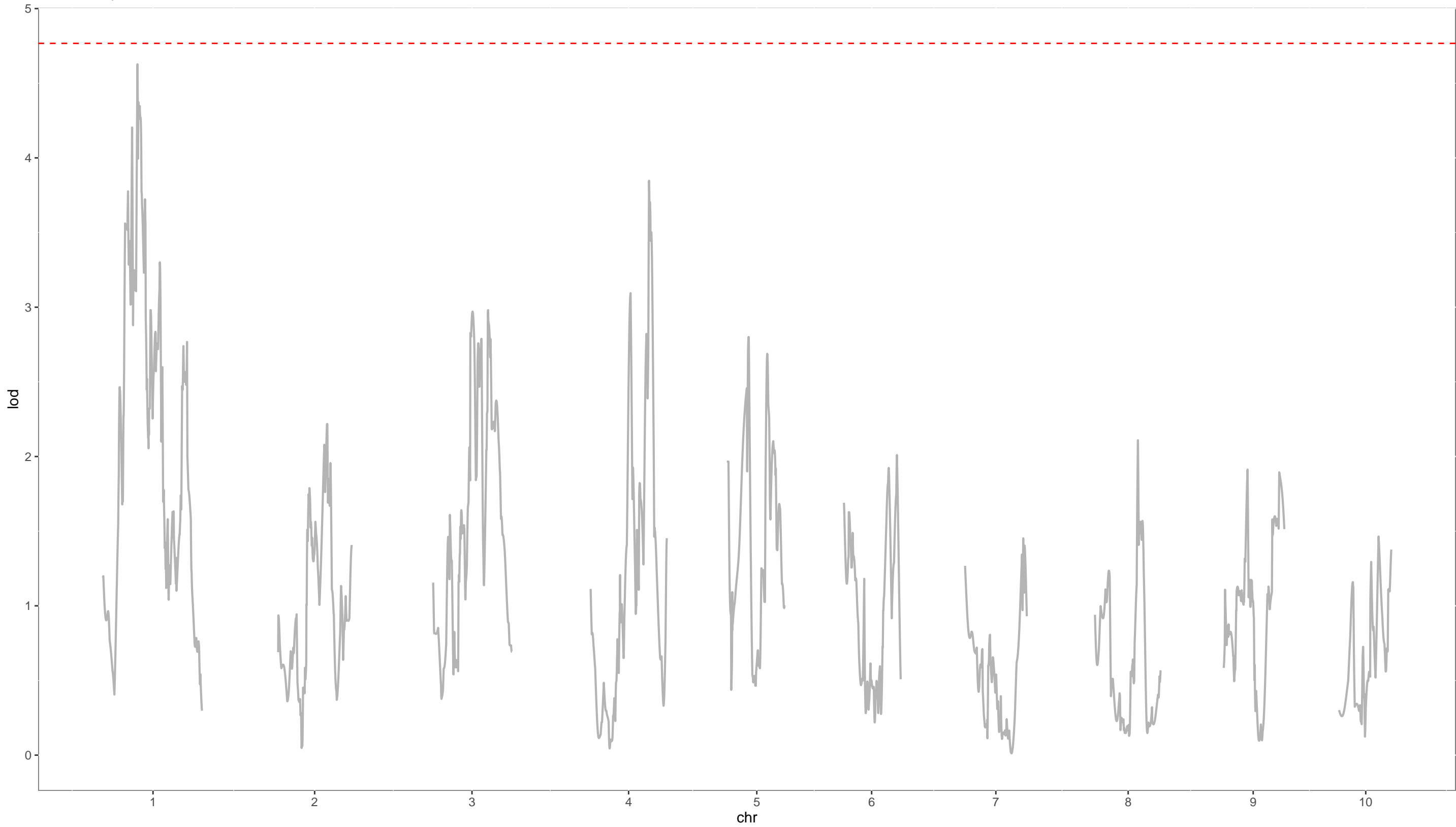
QTL analysis for int\_additive covariate for Se\_seed.f



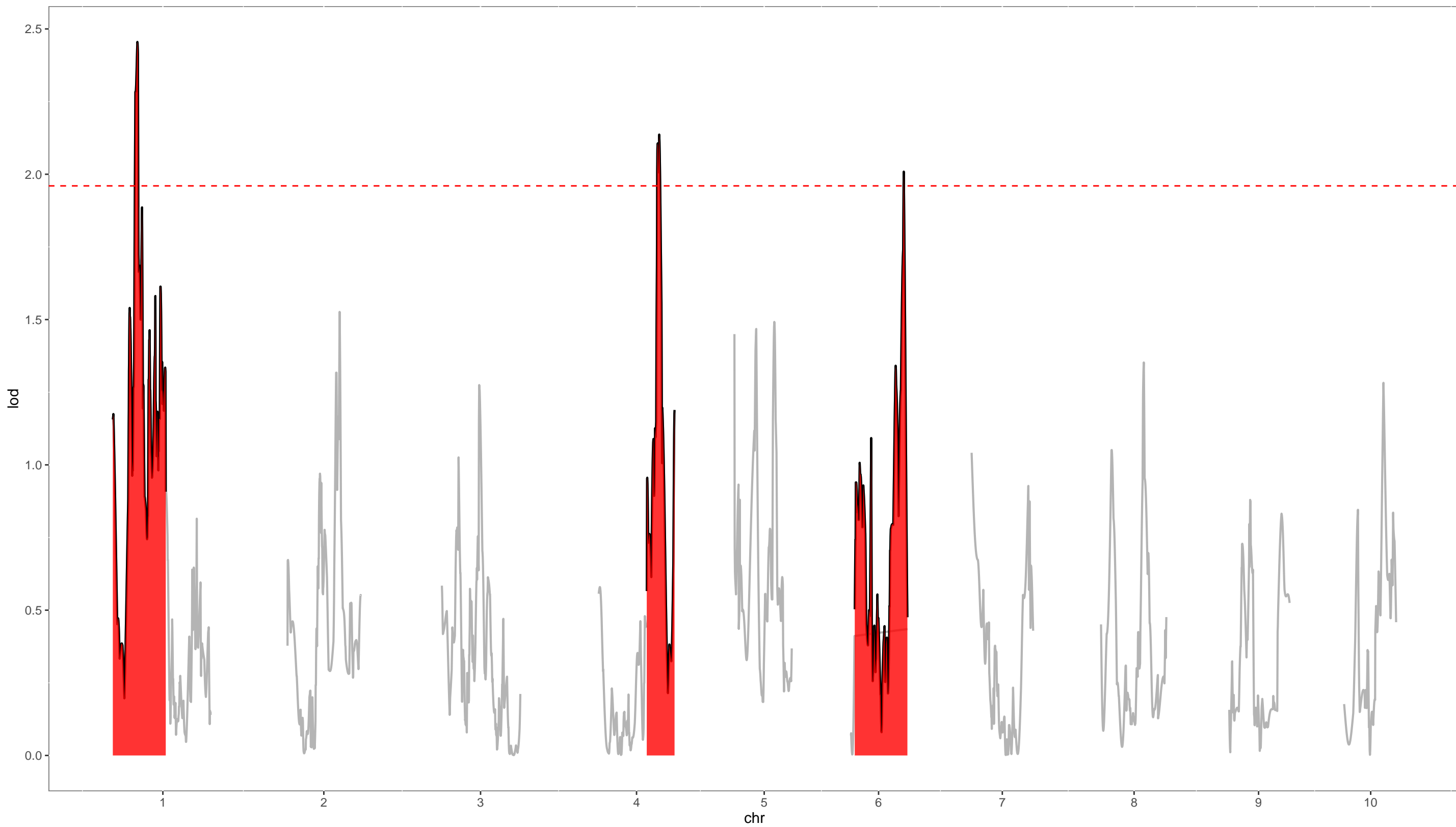
QTL analysis for int\_additive covariate for Se\_seed.i



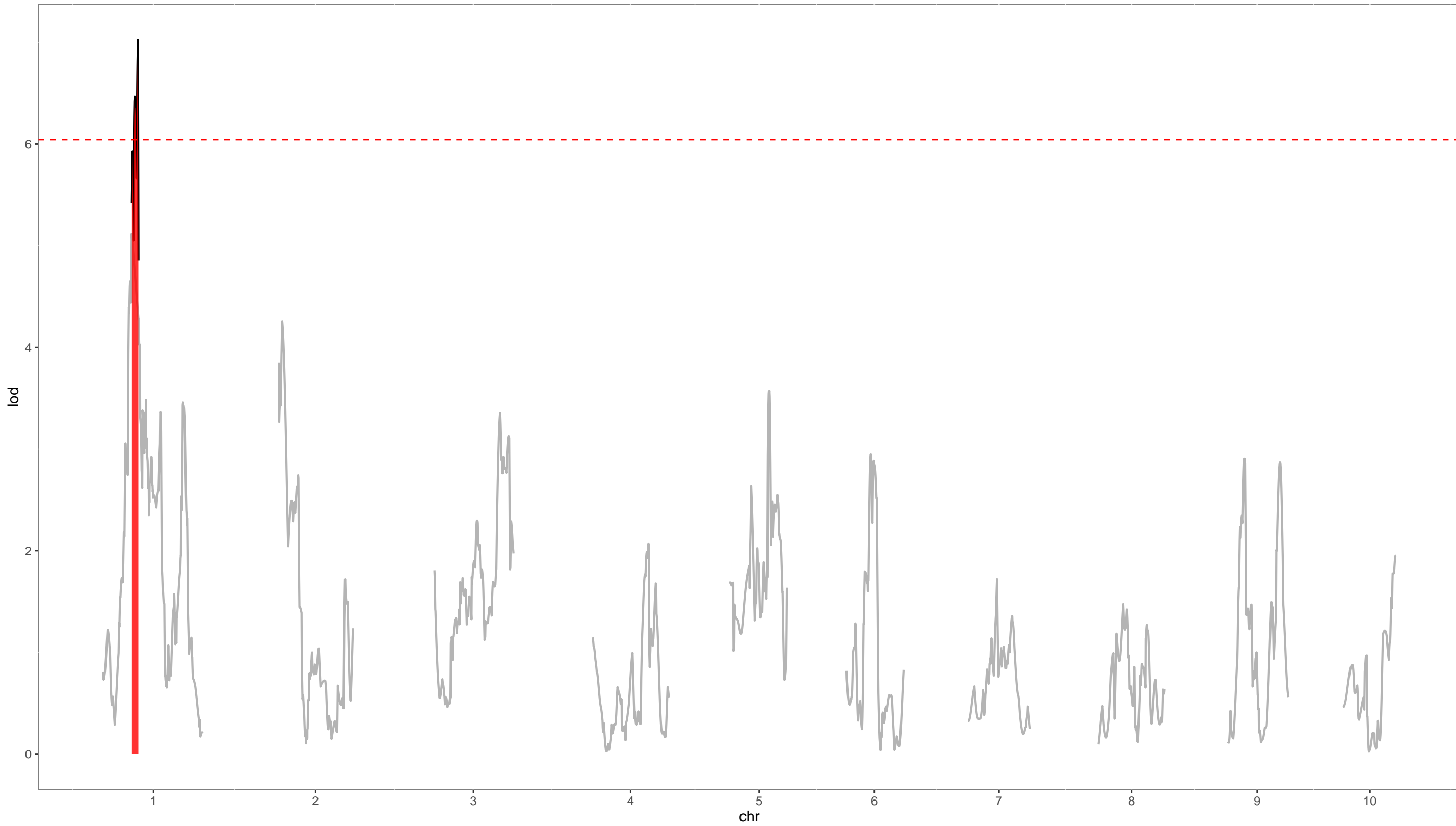
QTL analysis for int\_additive covariate for Sr\_leaf.f



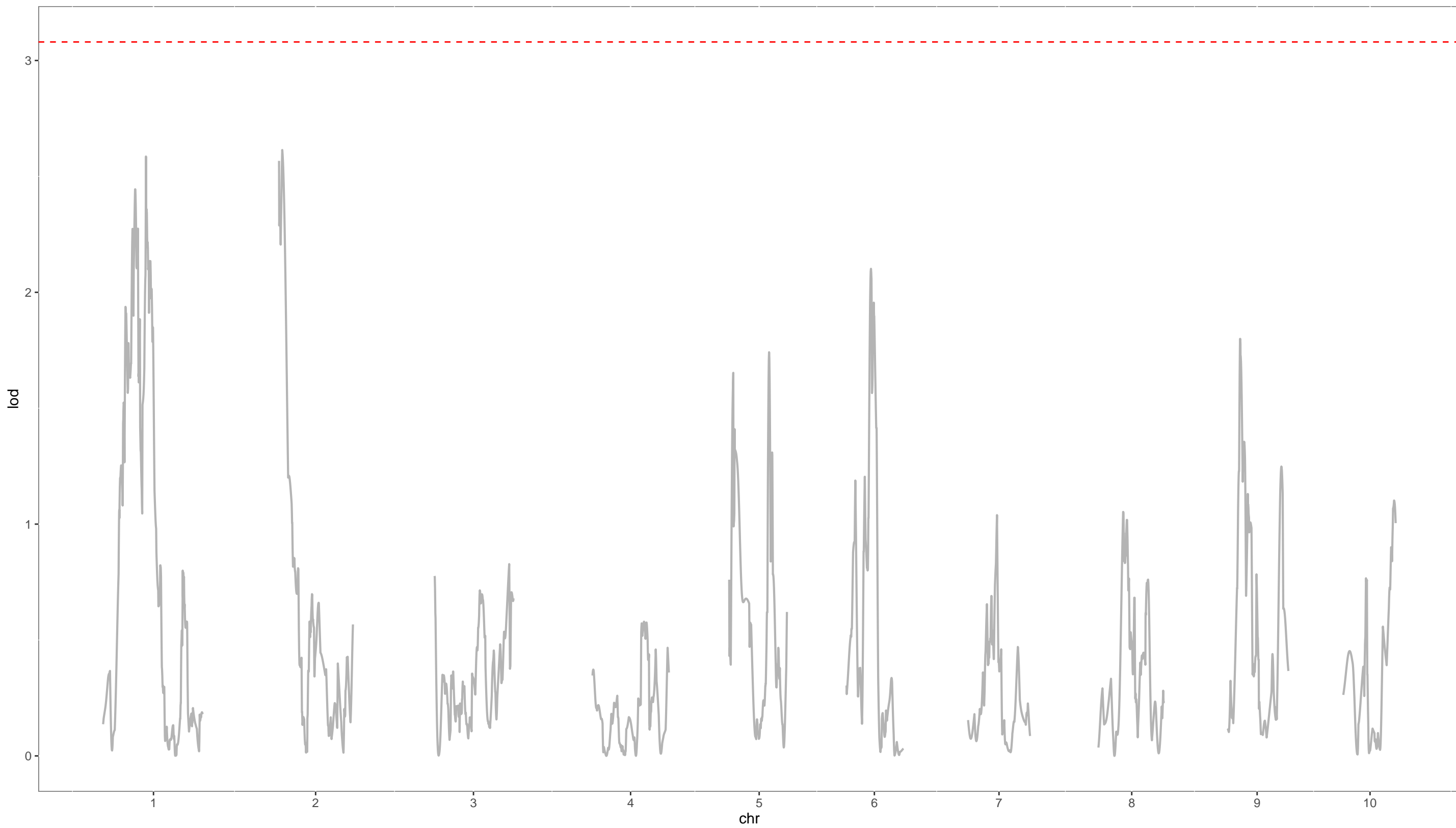
## QTL analysis for int\_additive covariate for Sr\_leaf.i



QTL analysis for int\_additive covariate for Sr\_ratio.f

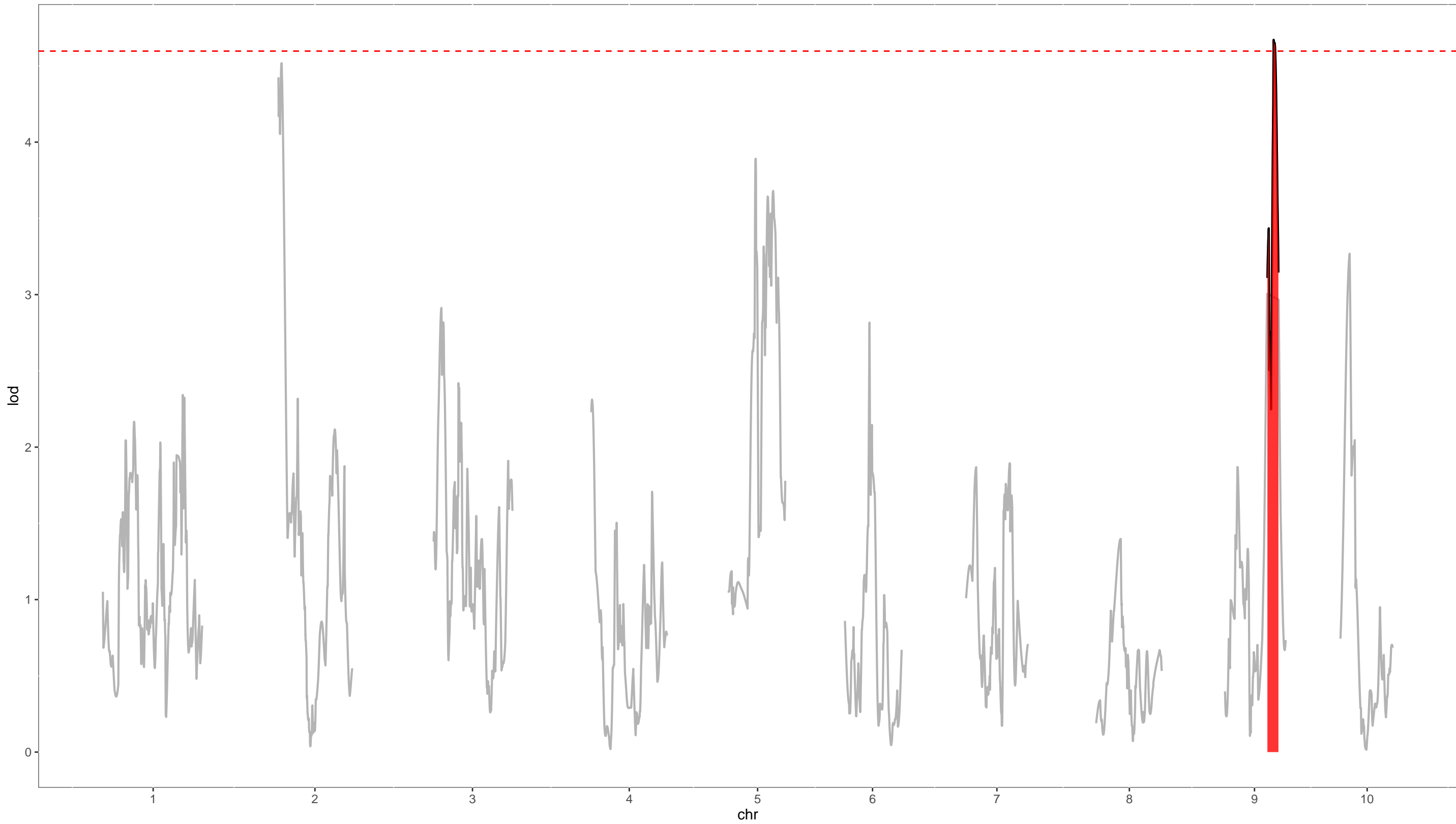


QTL analysis for int\_additive covariate for Sr\_ratio.i

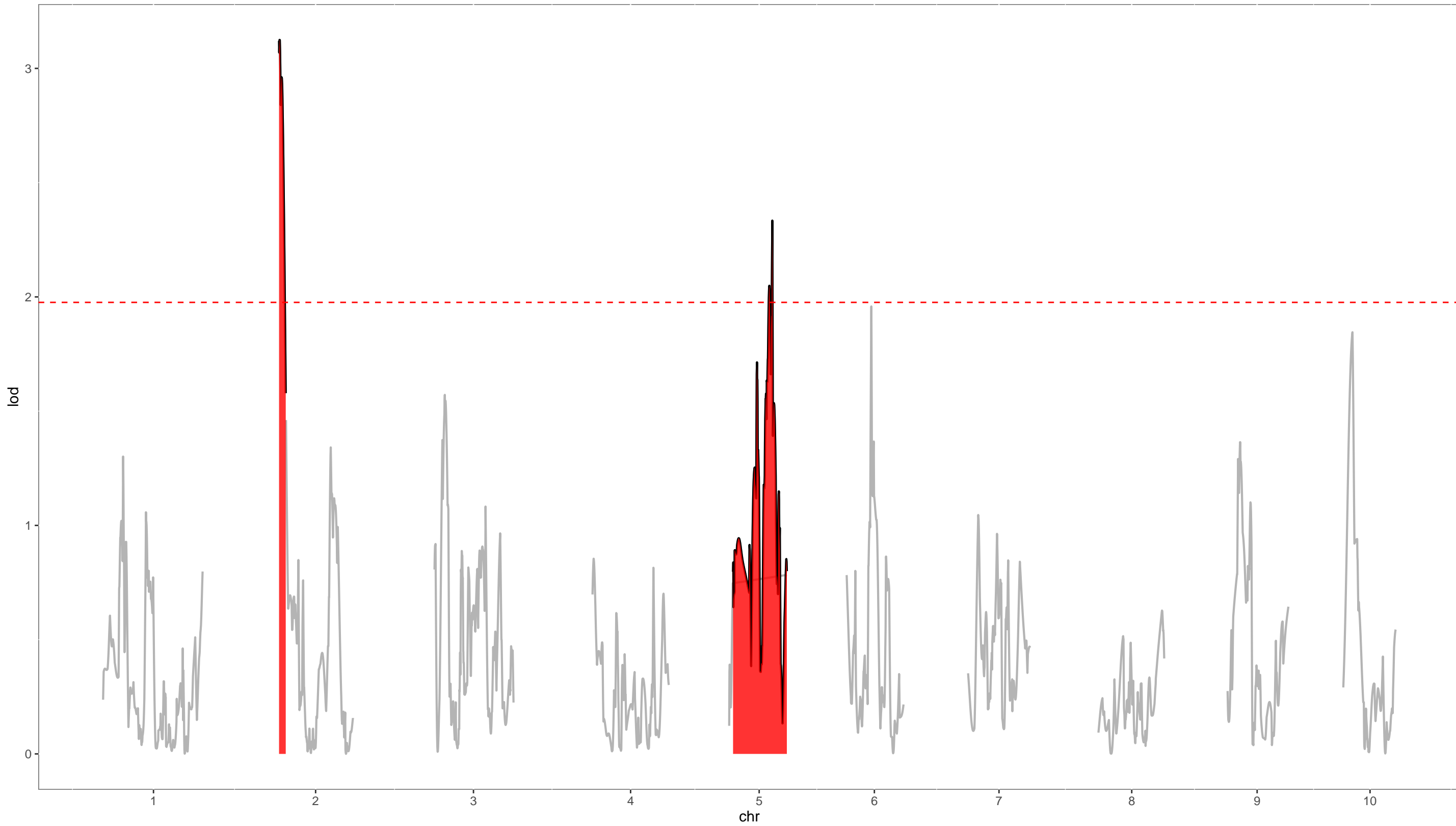




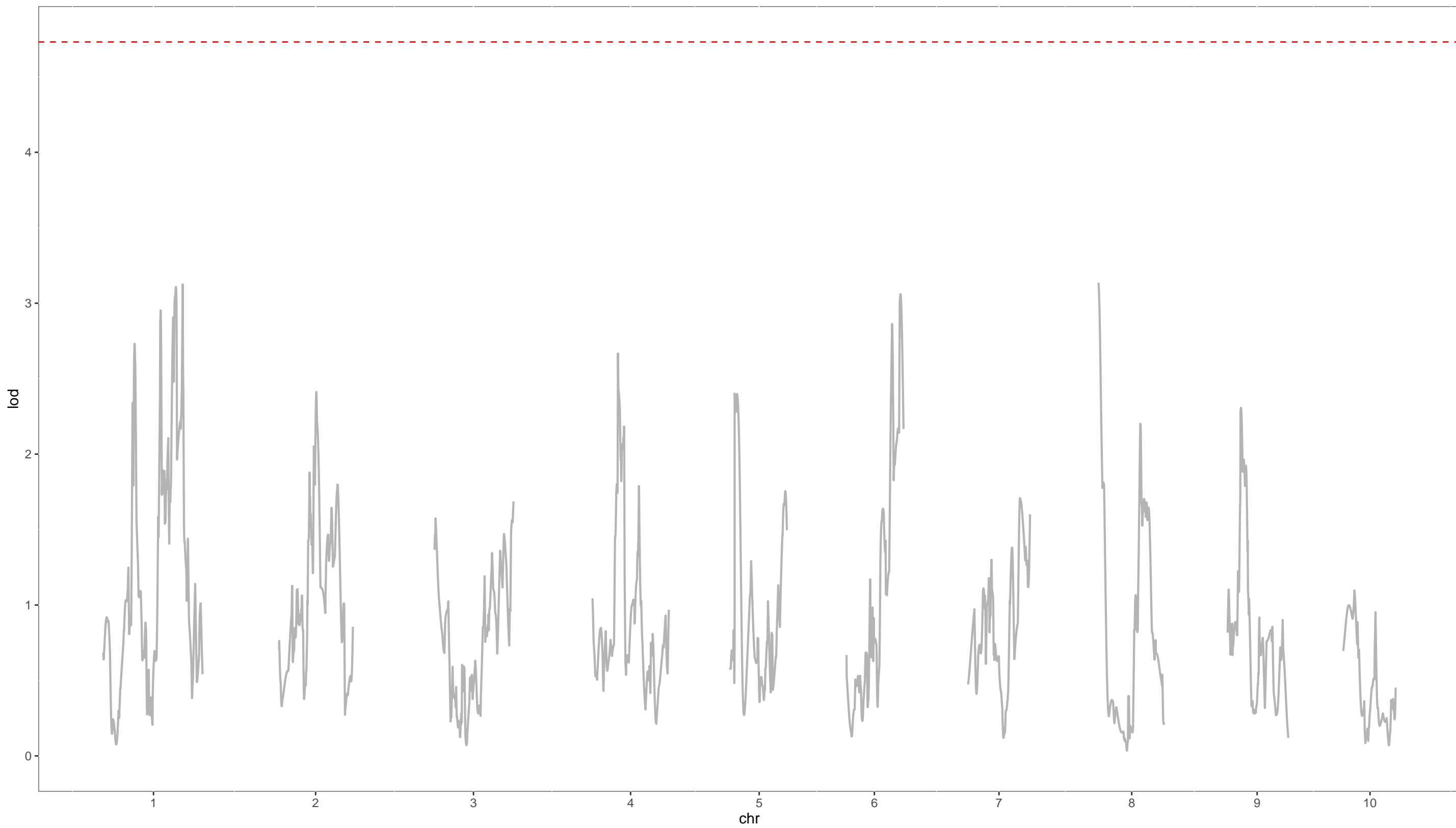
QTL analysis for int\_additive covariate for Sr\_seed.f



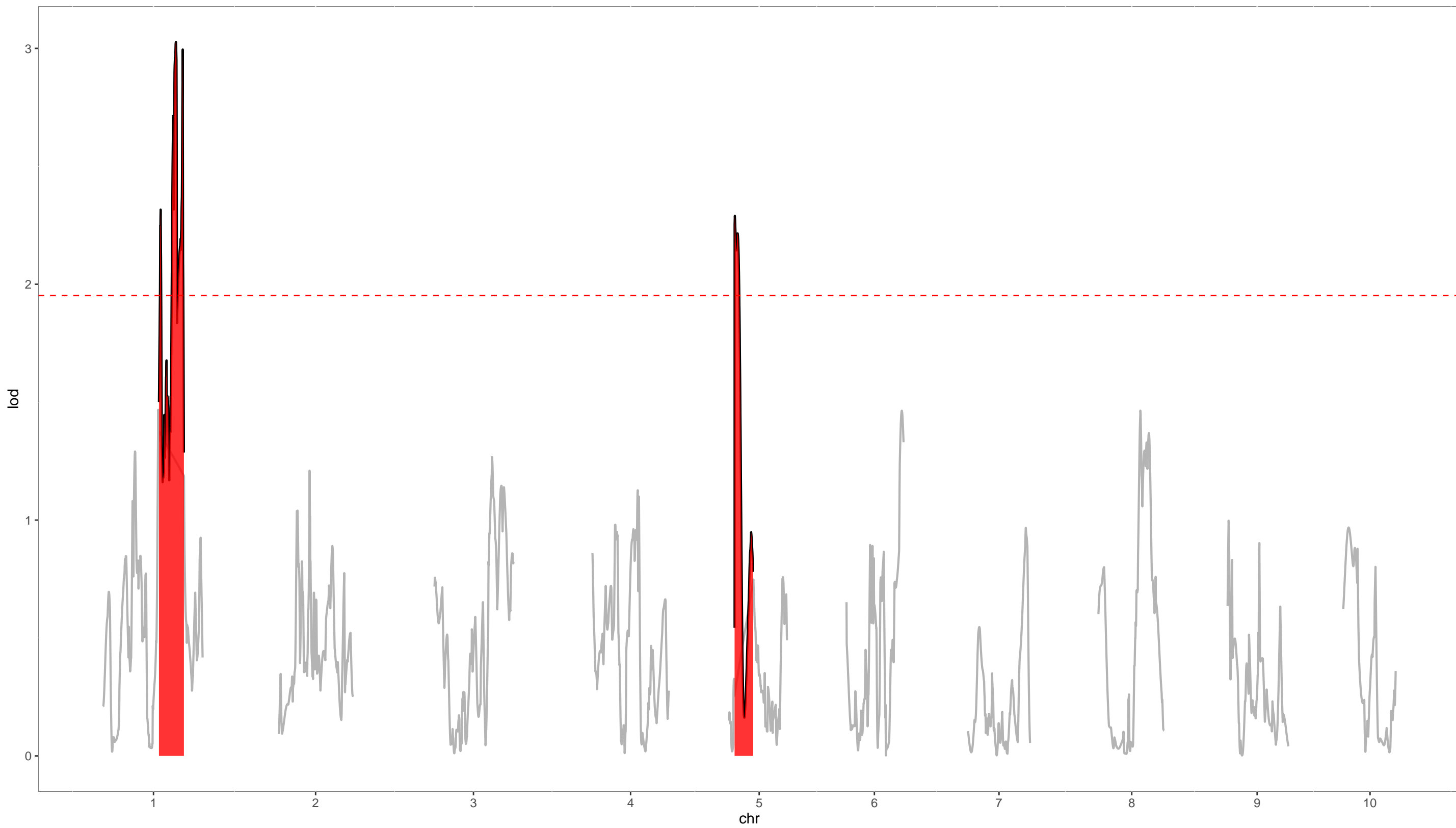
QTL analysis for int\_additive covariate for Sr\_seed.i



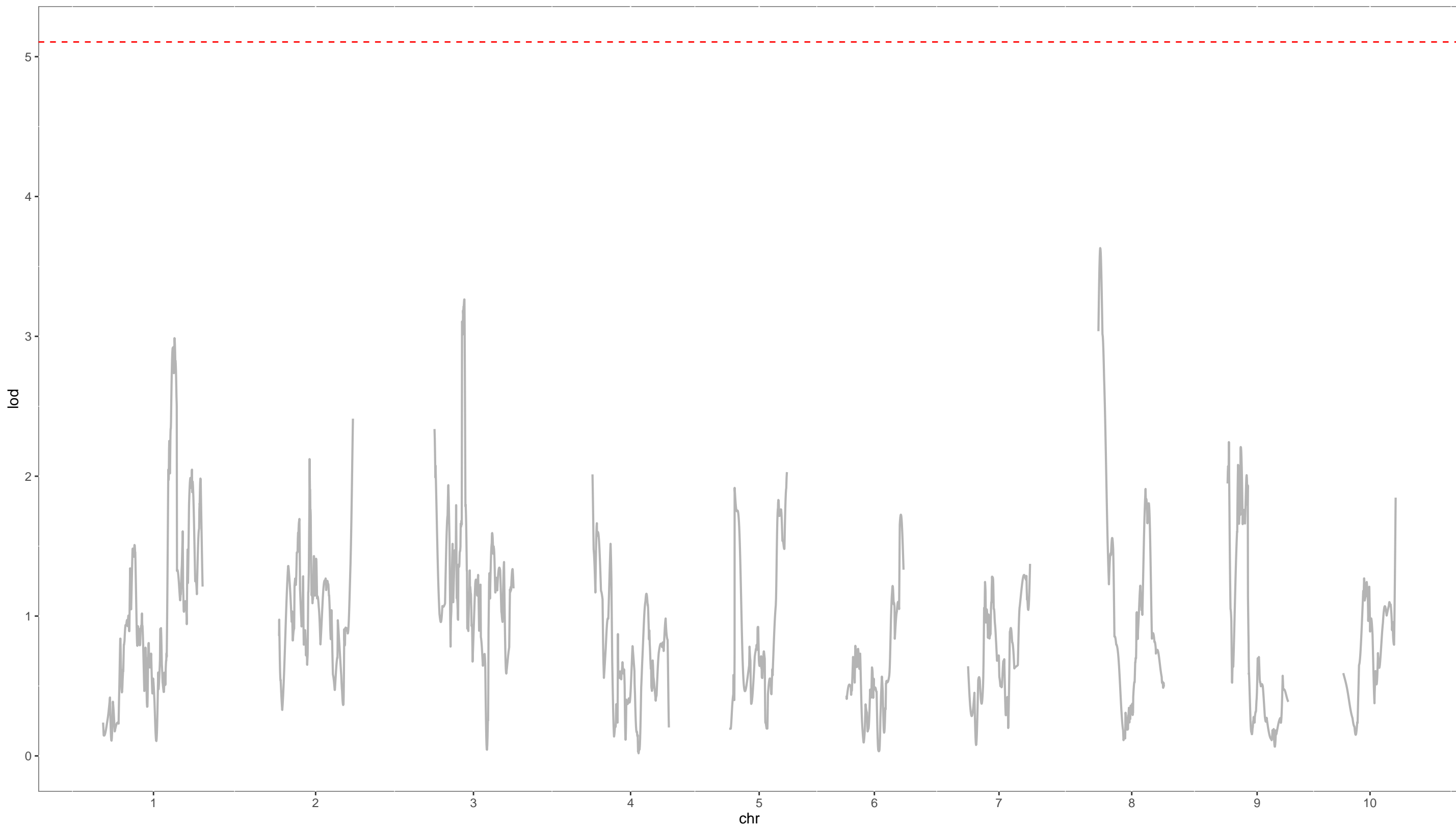
QTL analysis for int\_additive covariate for Zn\_leaf.f



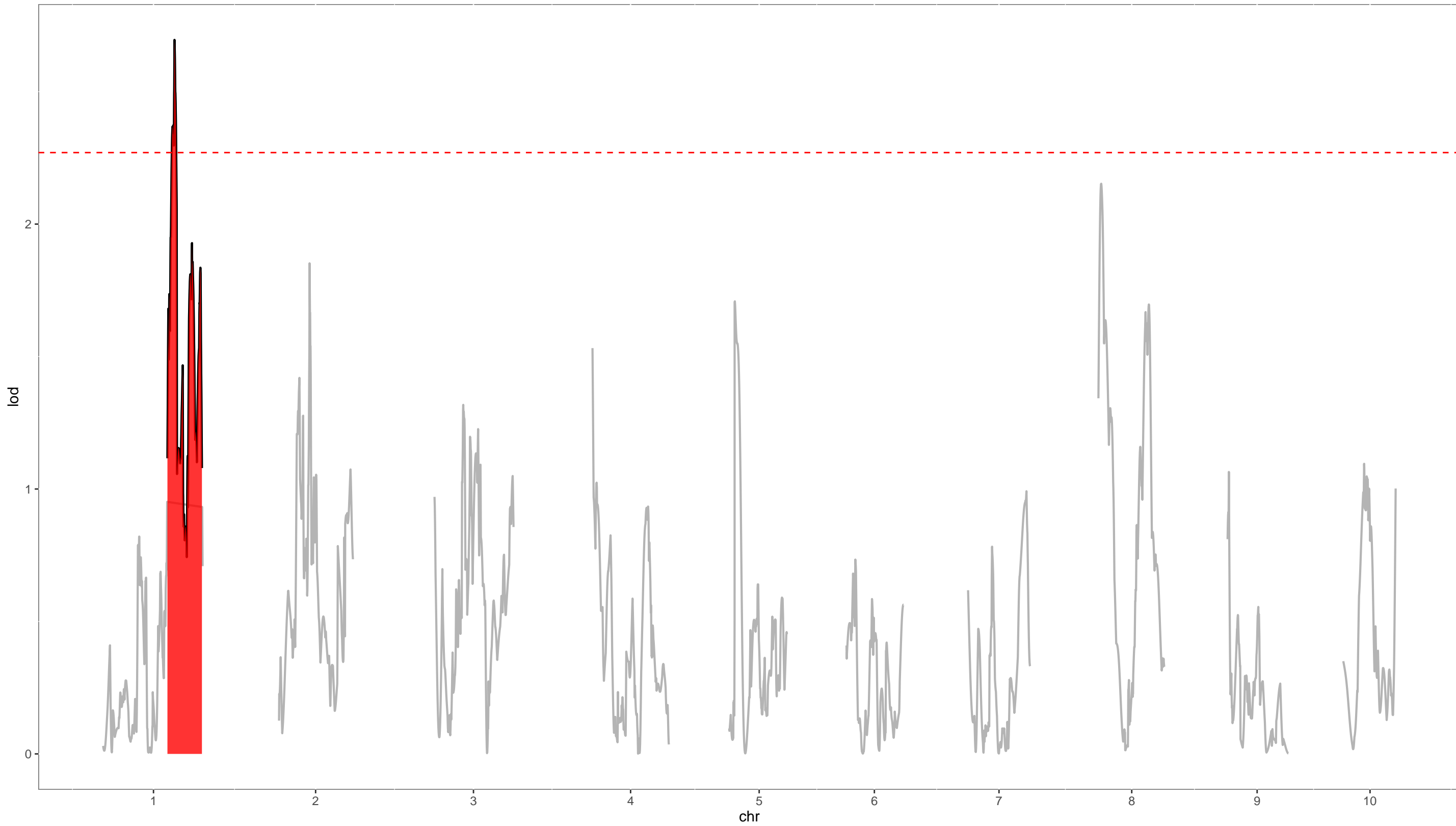
## QTL analysis for int\_additive covariate for Zn\_leaf.i



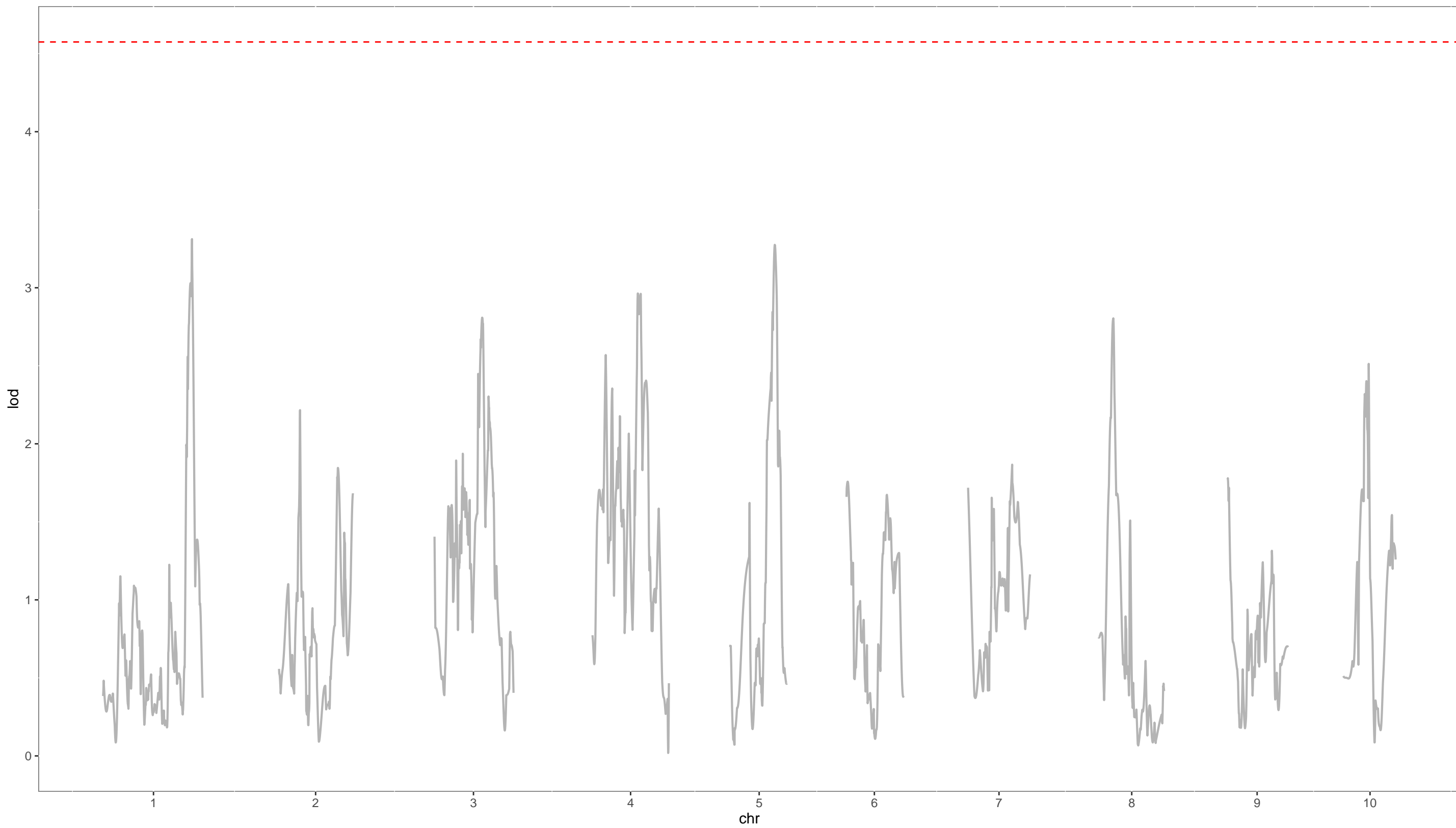
QTL analysis for int\_additive covariate for Zn\_ratio.f



QTL analysis for int\_additive covariate for Zn\_ratio.i



QTL analysis for int\_additive covariate for Zn\_seed.f



QTL analysis for int\_additive covariate for Zn\_seed.i

