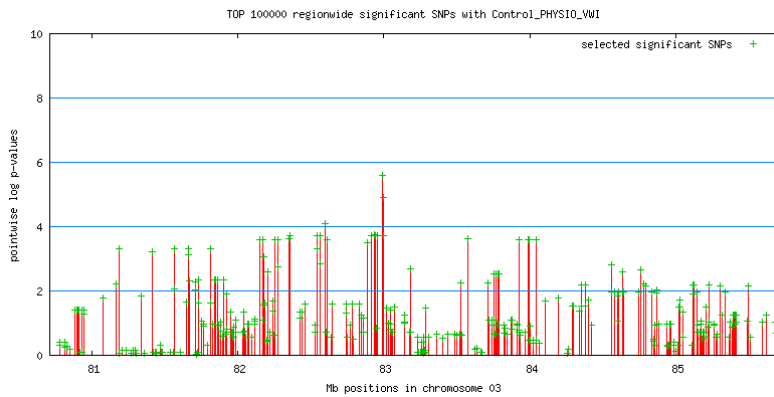


Locus 1

Significance (based on data with full allele set): **CORRECT**

Top hit : position chr3 : 82'991'172
alleles (EMMA) # alleles 1 = 14; # alleles 2 = 8 (do alleles #2 include strain Balb/cJ ?)
condition / stat control, REMLt
p-value: **2.593×10^{-6}**

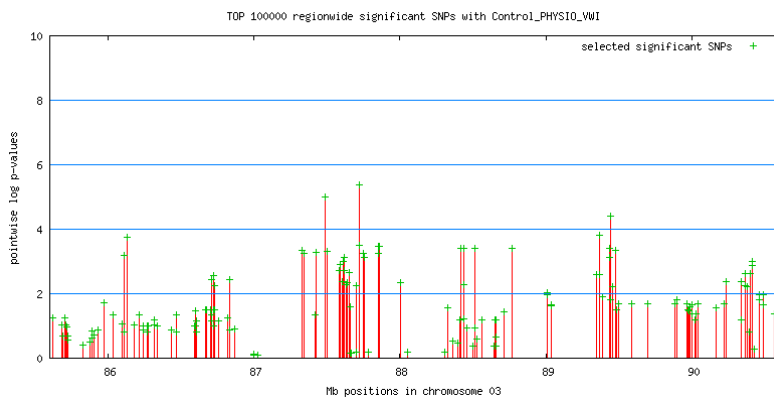


Locus 2

Significance (based on data with full allele set): **INFLATED**

Top hit 1 : position chr3 : 87'719'795 (*Hdgf*)
alleles (EMMA) # alleles 1 = 13; # alleles 2 = 7 (-> allele set is incomplete; this is also the case with the imputed CGD1 set of SNPs)
condition / stat control, REMLt
p-value: 4.236×10^{-6}

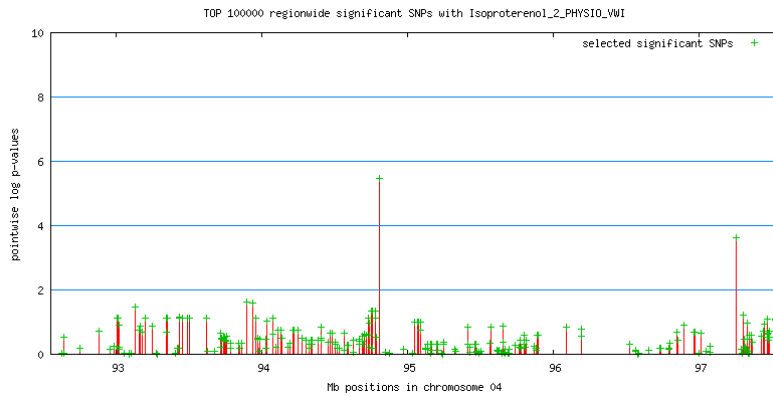
Top hit 2 : position chr3 : 87487048 (*Arhgef11*)
alleles (EMMA) #alleles 1 =10; # alleles 2 = 10 (-> allele set is incomplete; yet it is complete with the MPD medium size SNP set given below -> it is not clear which alleles are missing in the EMMA III association scan)
condition / stat control, REMLt
p-value: 1.031×10^{-5}



Locus 3

Significance (based on data with full allele set): **CORRECT**

Top hit 1 : position chr 4 : 94'807'400 (a single strong hit)
alleles (EMMA) # alleles 1 = 17; # alleles 2 = 4
condition / stat iso1, REMLt
p-value: **3.351×10^{-6}**

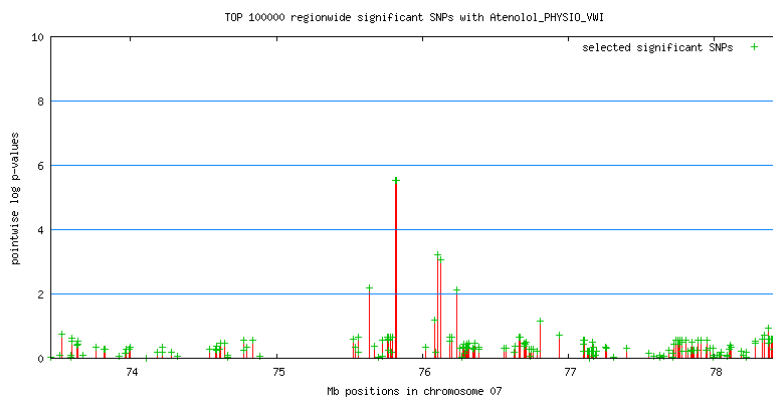


Locus 4

Significance (based on data with full allele set): **CORRECT**

Top hit 1 : position chr7 : 75'814'117
 alleles (EMMA) # alleles 1 = 17; # alleles 2 = 5
 condition / stat atenolol, REMLt
 p-value: **3.038×10^{-6}**

Top hit 2 : position chr7 : 75'824'602
 alleles (EMMA) # alleles 1 = 17; # alleles 2 = 5
 condition / stat atenolol, REMLt
 p-value: **3.038×10^{-6}**

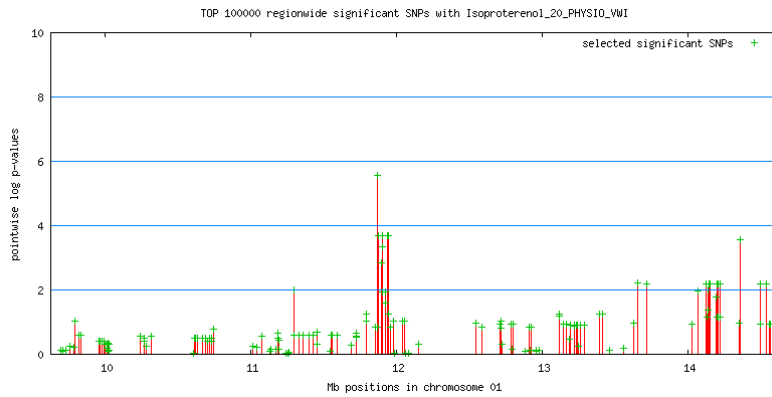


Locus 5

Significance (based on data with full allele set): **INFLATED**

Top hit 1 : position chr 1:11'871'998
 alleles (EMMA) # alleles 1 = 13; # alleles 2 = 7 (-> allele set is not complete)
 condition / stat iso10, REMLt
 p-value: 2.680×10^{-6}

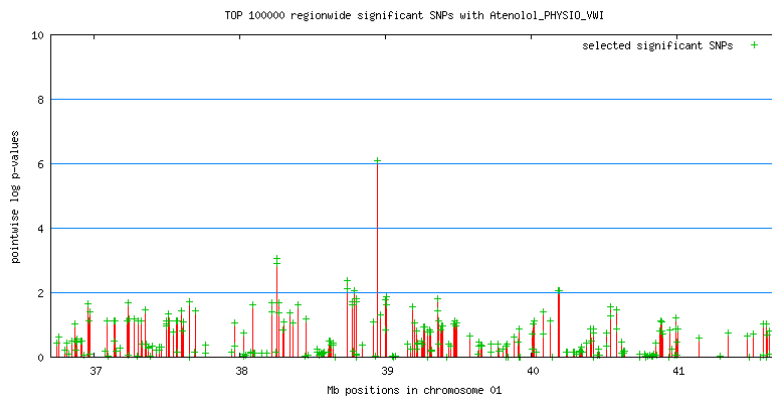
Top hit 2 : position chr 1:11'899'477
 alleles (EMMA) #alleles 1 =14; # alleles 2 = 7 (1 missing allele; see matching SNP above)
 condition / stat atenolol, LRT
 p-value: 1.351×10^{-6}



Locus 6

Significance (based on data with full allele set): **INFLATED ?**

Top hit 1 : position: chr 1:38'947'935
 alleles (EMMA): # alleles 1 = 14; # alleles 2 = 5 (-> allele set is not complete)
 condition / stat: atenolol, LRT
 p-value: 8.232×10^{-7}

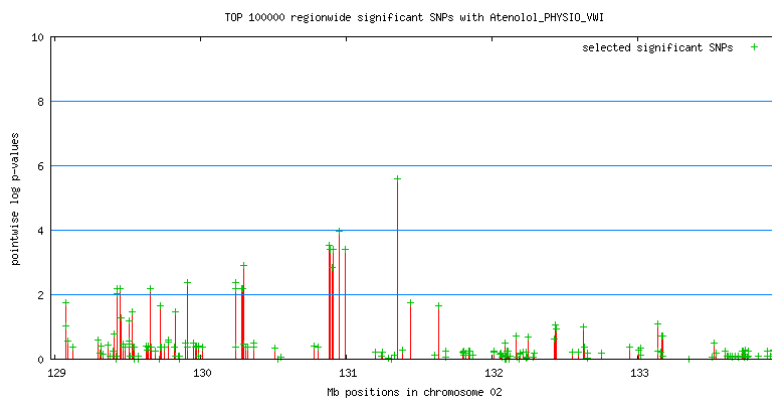


Locus 7

Significance (based on data with full allele set): **CORRECT**

Top hit 1 : position chr 2:131'352'413
 alleles (EMMA) # alleles 1 = 16; # alleles 2 = 6
 condition / stat atenolol, LRT
 p-value: 2.584×10^{-6}

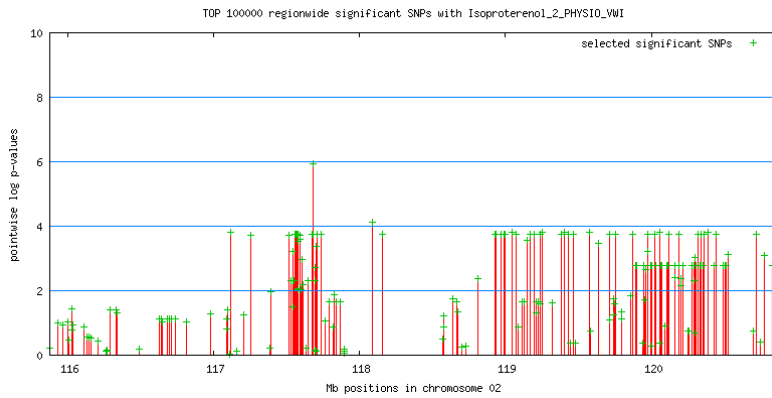
Top hit 2 : position chr2:130'952'456
 alleles (EMMA) # alleles 1 = 17; # alleles 2 = 4 (incomplete allele set)
 condition / stat atenolol, REMLt
 p-value: 1.439×10^{-5}



Locus 8

Significance (based on data with full allele set): **INFLATED**

Top hit 1 : position chr 2:117'682'002
alleles (EMMA) # alleles 1 = 15; # alleles 2 = 4 (-> allele set is not complete)
condition / stat iso 1, REMLt
p-value: 1.174×10^{-6}

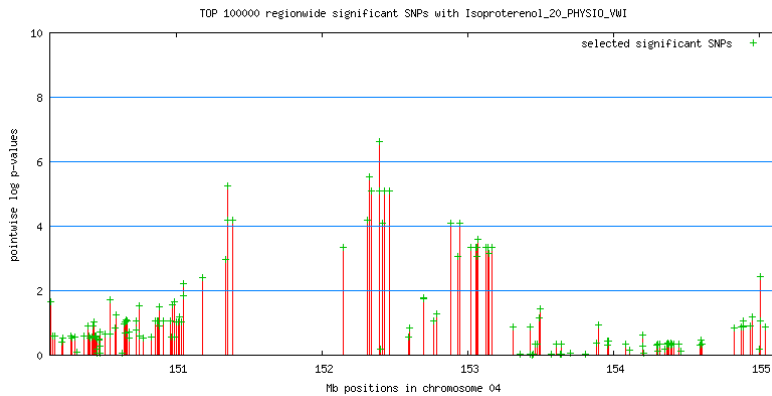


Locus 9

Significance (based on data with full allele set): **INFLATED, but p-values still below 10^{-5}**

Top hit 1 : position chr 4:151'355'820
alleles (EMMA) # alleles 1 = 16; # alleles 2 = 5 (allele set is incomplete)
condition / stat iso 1, REMLt
p-value: 3.346×10^{-7}

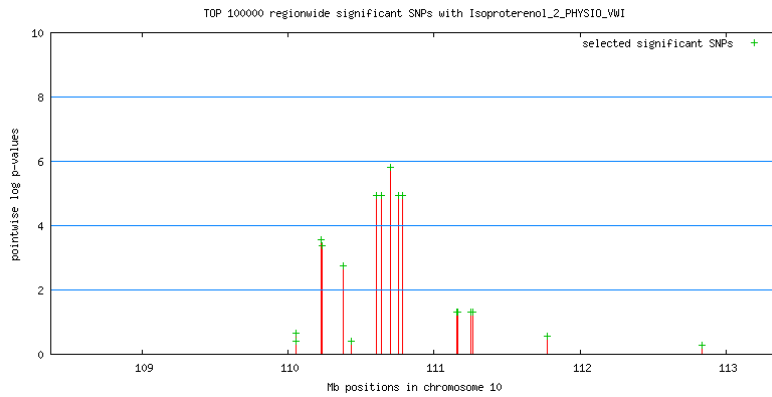
Top hit 2 : position chr 4:152'394'133
alleles (EMMA) # alleles 1 = 17; # alleles 2 = 4 (incomplete allele set)
condition / stat iso 10, REMLt
p-value: 2.307×10^{-7}



Locus 10

Significance (based on data with full allele set): **INFLATED**

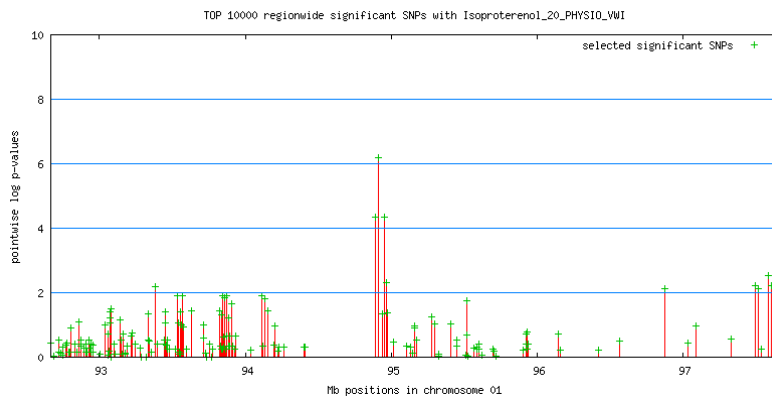
Top hit 1 : position chr 10:110'702'509
alleles (EMMA) # alleles 1 = 16; # alleles 2 = 4 (-> allele set is incomplete)
condition / stat iso 1, REMLt
p-value: 1.588×10^{-6}



Locus 11

Significance (based on data with full allele set): **INFLATED**

Top hit 1 : position chr 1:94'914'398
 alleles (EMMA) # alleles 1 = 10; # alleles 2 = 5 (-> allele set is incomplete)
 condition / stat iso 10, REMLt
 p-value: 6.643×10^{-7}

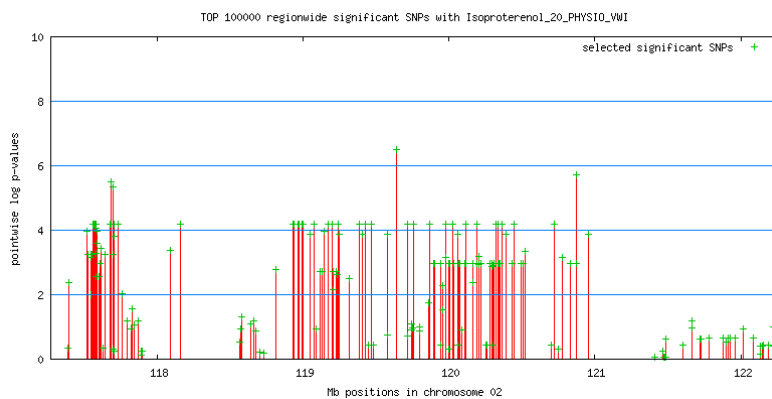


Locus 12

Significance (based on data with full allele set): **INFLATED ?**

Top hit 1 : position chr 2:119'637'990
 alleles (EMMA) # alleles 1 = 12; # alleles 2 = 8 (incomplete allele set)
 condition / stat iso 10, REMLt
 p-value: 3.255×10^{-7}

Top hit 2 : position chr 2:120'869'441
 alleles (EMMA) # alleles 1 = 13; # alleles 2 = 7 (incomplete allele set)
 condition / stat iso 10, REMLt
 p-value: 1.921×10^{-6}

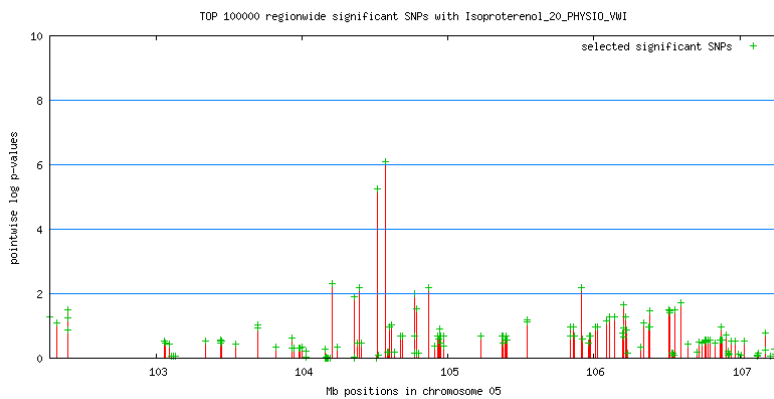


Locus 13

Significance (based on data with full allele set): **INFLATED ?**

Top hit 1 : position chr 5:104'572'764
alleles (EMMA) # alleles 1 = 15; # alleles 2 = 5 (-> allele set is not complete)
condition / stat iso 10, REMLt
p-value: 8.03×10^{-7}

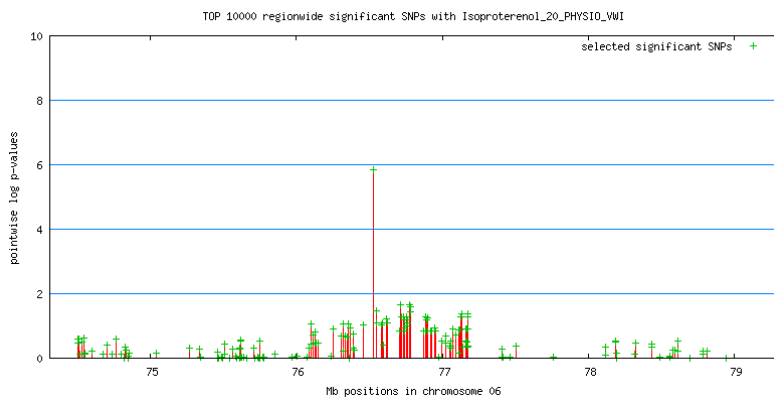
Top hit 2 : position chr 5:104'515'280
alleles (EMMA) #alleles 1 = 17; # alleles 2 = 4
condition / stat iso 10, REMLt
p-value: 5.597×10^{-6}



Locus 14

Significance (based on data with full allele set): **CORRECT**

Top hit 1 : position chr 6:76'524'788
alleles (EMMA) # alleles 1 = 12; # alleles 2 = 10
condition / stat iso 10, LRT
p-value: 1.463×10^{-6}

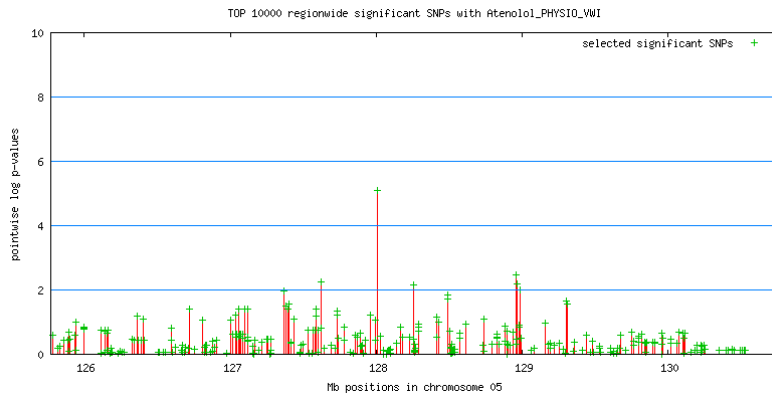


Locus 15

Significance (based on data with full allele set): **CORRECT**

Top hit 1 : position chr 5:128'006'028
alleles (EMMA) # alleles 1 = 18; # alleles 2 = 4
condition / stat atenolol, REMLt
p-value: 8.338×10^{-6}

Top hit 2 : position chr 5:128'006'079
alleles (EMMA) #alleles 1 = 18; # alleles 2 = 4
condition / stat atenolol, REMLt
p-value: 8.338×10^{-6}

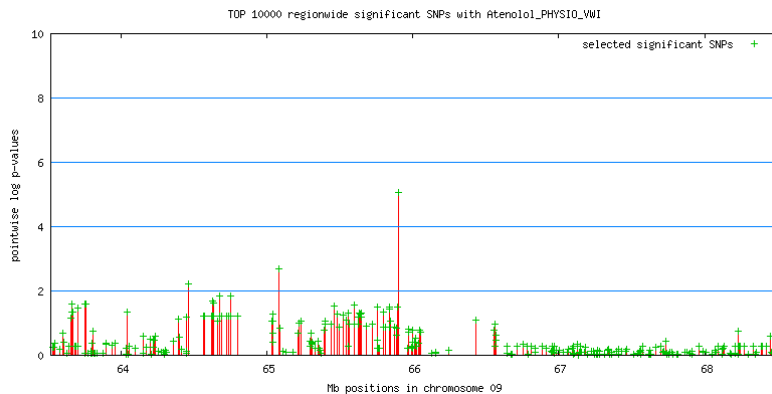


Locus 16

Significance (based on data with full allele set): **CORRECT**

Top hit 1 : position chr 9:65'899'904
 alleles (EMMA) # alleles 1 = 18; # alleles 2 = 4
 condition / stat atenolol, REMLt
 p-value: **8.396×10^{-6}**

Top hit 2 : position chr 9:64'463'047
 alleles (EMMA) #alleles 1 = 13; # alleles 2 = 7
 condition / stat iso 10, REMLt
 p-value: 1.743×10^{-5}

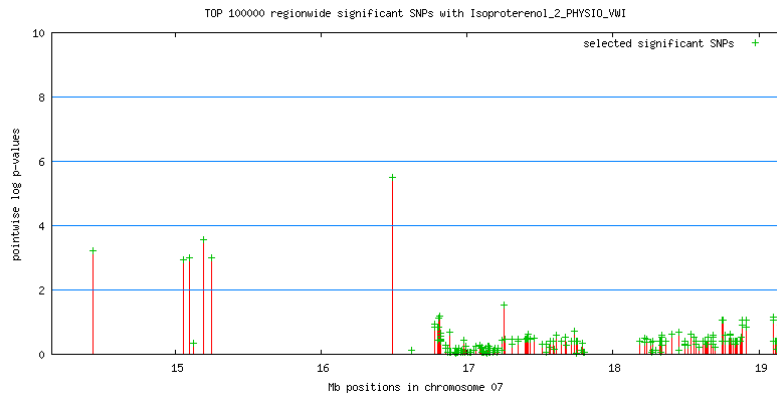


Locus 17

Significance (based on data with full allele set): **INFLATED ?**

Top hit 1 : position chr 7:16'488'107
 alleles (EMMA) # alleles 1 = 14; # alleles 2 = 5 (-> allele set is not complete)
 condition / stat iso 1, REMLt
 p-value: 3.162×10^{-6}

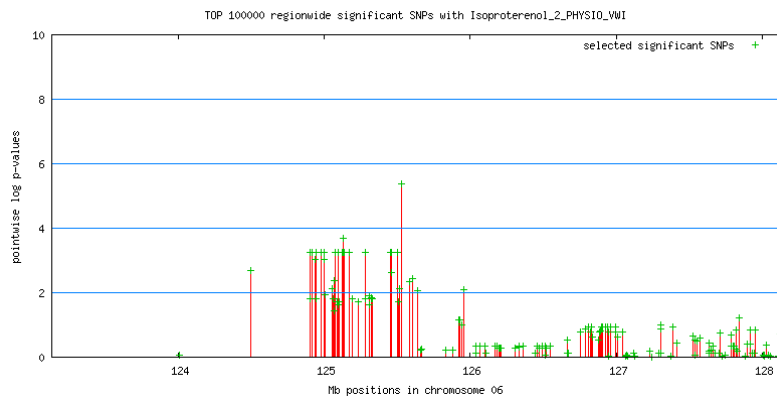
Top hit 2 : position chr 7:15'194'001
 alleles (EMMA) #alleles 1 = 13; # alleles 2 = 5
 condition / stat iso 10, REMLt
 p-value: 6.614×10^{-6}



Locus 18

Significance (based on data with full allele set): **CORRECT**

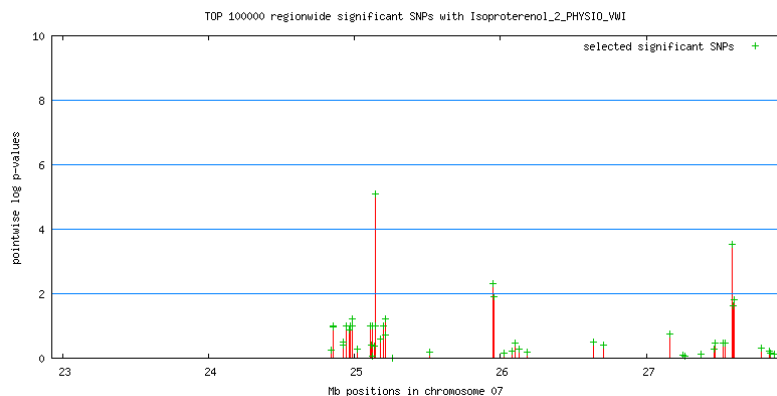
Top hit 1 : position chr 6:125'528'422
 alleles (EMMA) # alleles 1 = 17; # alleles 2 = 5
 condition / stat iso 1, REMLT
 p-value: **4.072×10^{-6}**



Locus 19

Significance (based on data with full allele set): **CORRECT**

Top hit 1 : position chr 7:25'140'278
 alleles (EMMA) # alleles 1 = 18; # alleles 2 = 4
 condition / stat iso 1, REMLT
 p-value: **8.226×10^{-6}**



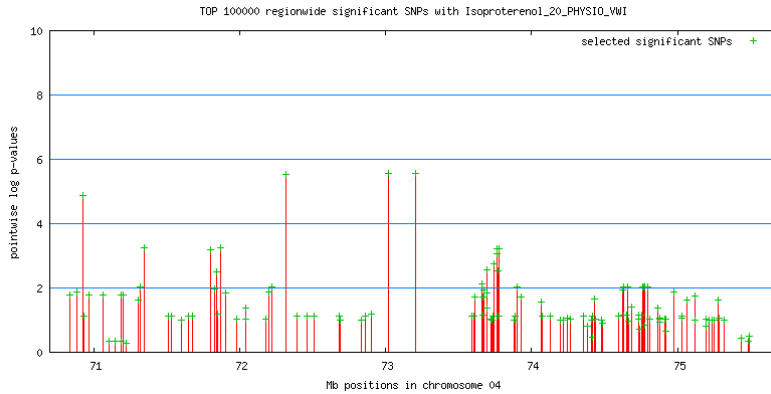
Locus 20

Significance (based on data with full allele set): **INFLATED** but p-value still below 10^{-5} (provided that alleles are correct)

Top hits 1/2: position chr 4:73'016'585 and chr 4:73'202'146
 alleles (EMMA) # alleles 1 = 13; # alleles 2 = 7 (-> allele set is not complete)

condition / stat iso 10, REMLt
p-value: 2.659×10^{-6}

Top hit 3 : position chr 4:72'313'856
alleles (EMMA) #alleles 1 = 15; # alleles 2 = 7
condition / stat iso 10, REMLt
p-value: **2.840×10^{-6}**

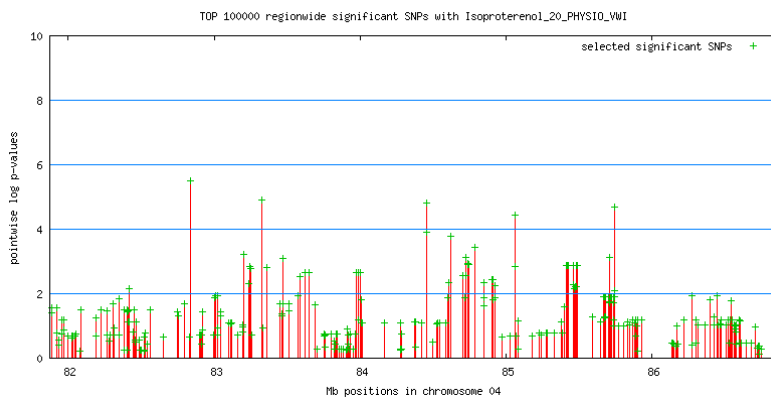


Locus 21

Significance (based on data with full allele set): **INFLATED ?**

Top hit 1 : position chr 4:82'834'365
alleles (EMMA) # alleles 1 = 9; # alleles 2 = 11 (-> allele set is not complete)
condition / stat iso 10, REMLt
p-value: 3.179×10^{-6}

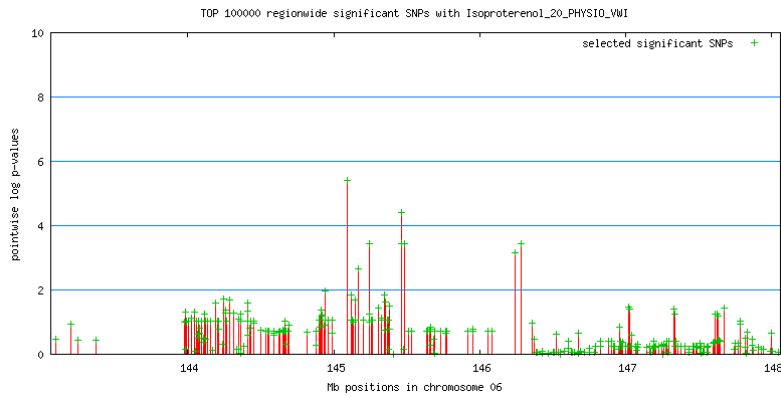
Top hit 2 : position chr 4:83'326'905
alleles (EMMA) #alleles 1 = 10; # alleles 2 = 11
condition / stat iso 10, REMLt
p-value: 1.239×10^{-5}



Locus 22

Significance (based on data with full allele set): **CORRECT**

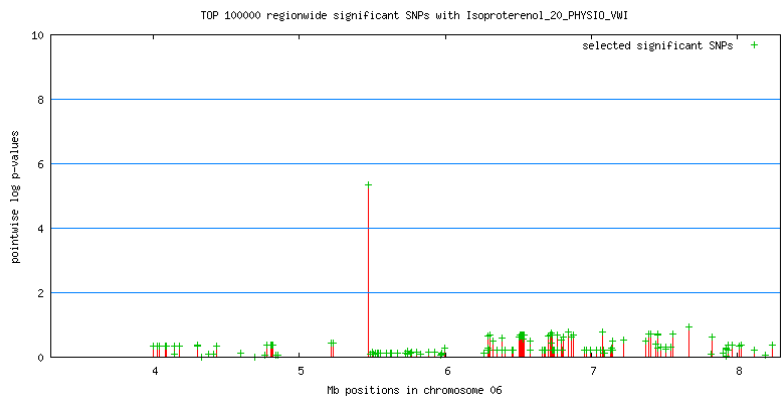
Top hit 1 : position chr 6:145'091'729
alleles (EMMA) # alleles 1 = 16; # alleles 2 = 6
condition / stat iso 10, REMLt
p-value: **4.025×10^{-6}**



Locus 23

Significance (based on data with full allele set): **INFLATED**

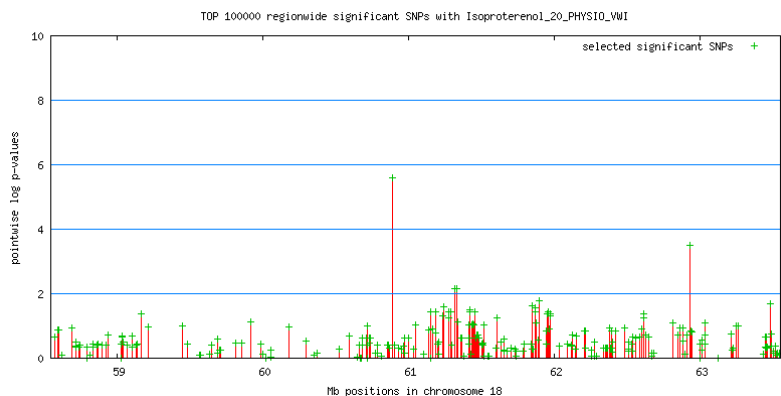
Top hit 1 : position chr 6:5'476'010
 alleles (EMMA) # alleles 1 = 13; # alleles 2 = 5 (-> allele set is not complete)
 condition / stat iso 10, REMLt
 p-value: 4.607×10^{-6}



Locus 24

Significance (based on data with full allele set): **INFLATED ?**

Top hit 1 : position chr 18:60'889'758
 alleles (EMMA) # alleles 1 = 12; # alleles 2 = 7 (-> the allele set is incomplete)
 condition / stat iso 10, LRT
 p-value: 2.488×10^{-6}

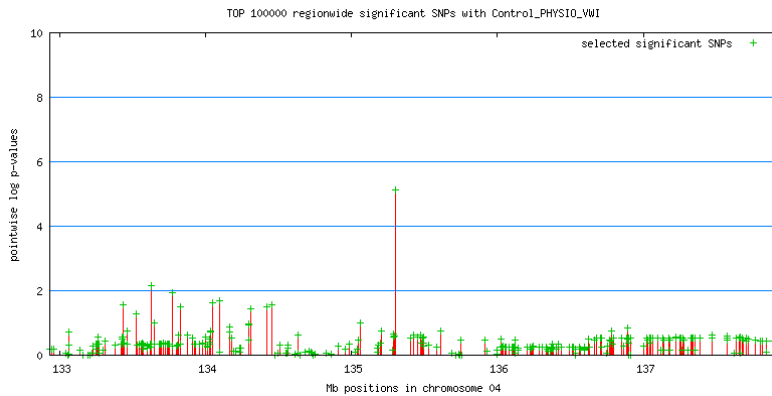


Locus 25

Significance (based on data with full allele set): **CORRECT (under-estimated ?)**

Top hit 1 : position chr 4:135'298'806
 alleles (EMMA) # alleles 1 = 16; # alleles 2 = 5 (-> allele set is not complete)
 condition / stat control, LRT

p-value: **7.542x10⁻⁶**



Locus 26

Significance (based on data with full allele set): [presumably CORRECT / false positive](#)

Top hit 1 : position chr 5:45'736'224
alleles (EMMA) # alleles 1 = 10; # alleles 2 = 12
condition / stat iso 1, LRT
p-value: **6.138x10⁻⁶**

Top hit 2 : position chr 5:45'776'195
alleles (EMMA) # alleles 1 = 10; # alleles 2 = 12
condition / stat iso 1, LRT
p-value: 6.138x10⁻⁶

and

Locus 27

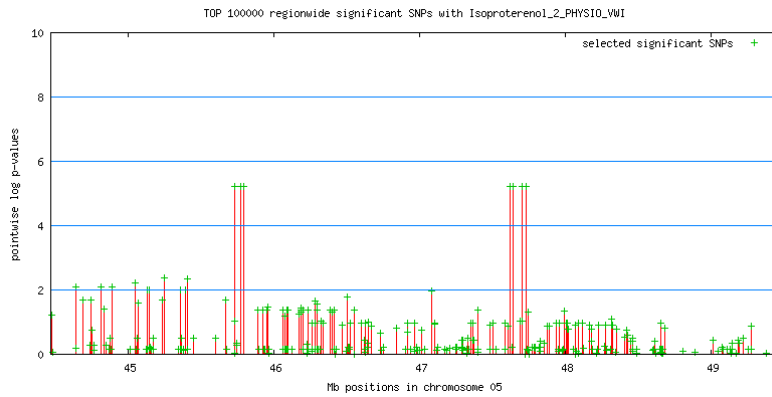
Significance (based on data with full allele set): [presumably CORRECT / false positive](#)

Top hits 1-4: positions chr 5:47'619'864; chr5: 47'638'996; chr5:47'704'974; and
chr5:47'729'042
alleles (EMMA) # alleles 1 = 10; # alleles 2 = 12
condition / stat iso 1, REMLt
p-value: **6.138x10⁻⁶**

Top hit 2 : position chr5: 47'638'996
alleles (EMMA) # alleles 1 = 10; # alleles 2 = 12
condition / stat iso 1, REMLt
p-value: 6.138x10⁻⁶

Top hit 3 : position chr5:47'704'974
alleles (EMMA) # alleles 1 = 10; # alleles 2 = 12
condition / stat iso 1, REMLt
p-value: 6.138x10⁻⁶

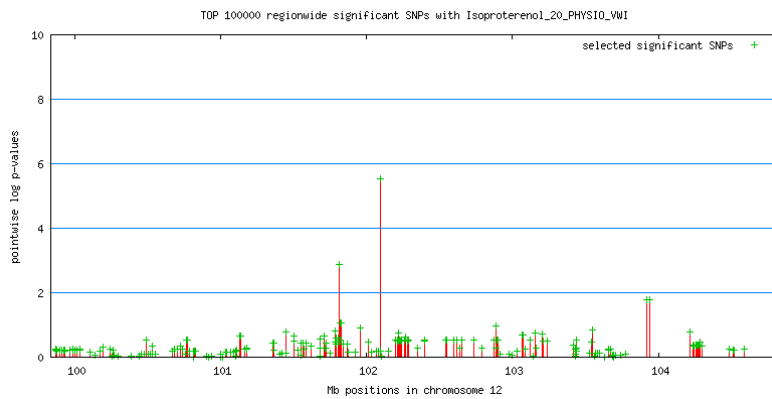
Top hit 4 : position chr5:47'729'042
alleles (EMMA) # alleles 1 = 10; # alleles 2 = 12
condition / stat iso 1, REMLt
p-value: 6.138x10⁻⁶



Locus 28

Significance (based on data with full allele set): **INFLATED**

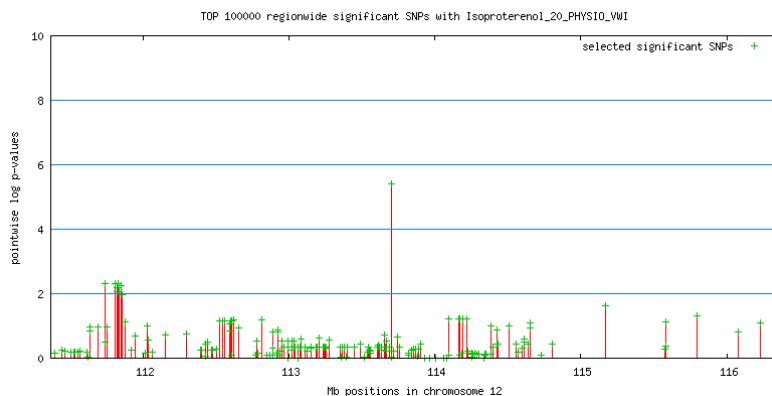
Top hit 1 : position chr 12:102'095'964
 alleles (EMMA) # alleles 1 = 12; # alleles 2 = 8 (-> allele set is not complete)
 condition / stat iso 10, LRT
 p-value: 2.973×10^{-6}



Locus 29

Significance (based on data with full allele set): **INFLATED**

Top hit 1 : position chr 12:113'701'753 and chr12:113'701'290
 alleles (EMMA) # alleles 1 = 12; # alleles 2 = 9 (-> allele set is incomplete)
 condition / stat iso 10, LRT
 p-value: 3.884×10^{-6}

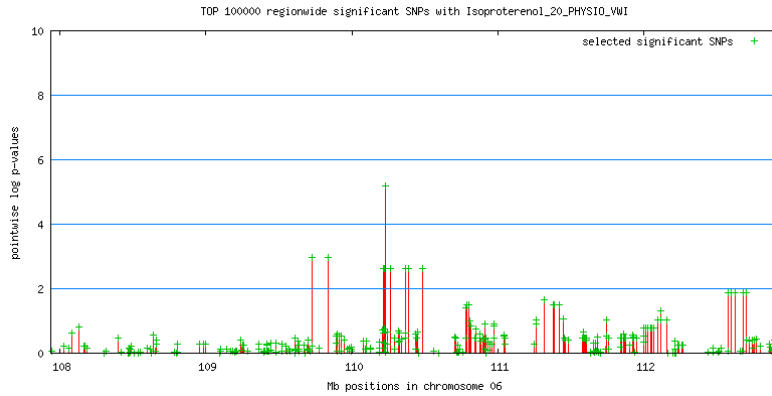


Locus 30

Significance (based on data with full allele set): **presumably CORRECT / false positive**

Top hit 1 : position chr 6:110'232'069
 alleles (EMMA) # alleles 1 = 13; # alleles 2 = 9
 condition / stat iso 10, LRT

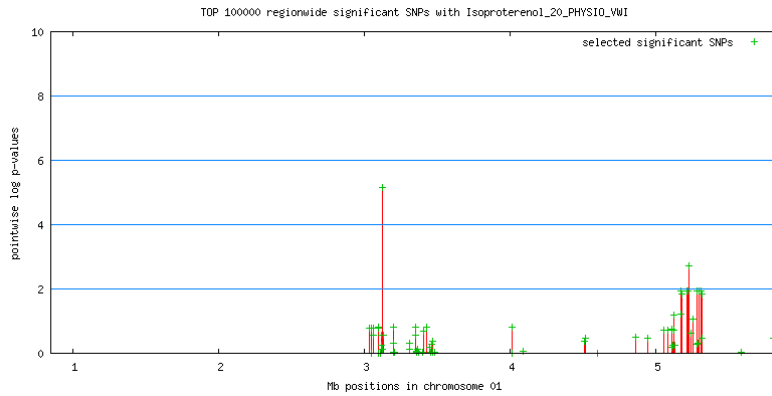
p-value: **6.407x10⁻⁶**



Locus 31

Significance (based on data with full allele set): [presumably CORRECT / false positive](#)

Top hit 1 : position chr 1:3'125'499
alleles (EMMA) # alleles 1 = 8; # alleles 2 = 14
condition / stat iso 10, LRT
p-value: **7.007x10⁻⁶**



Locus 32

Significance (based on data with full allele set): [presumably CORRECT / false positive](#)

Top hit 1 : position chr 17:12'465'938, 12'503'901, and 12'539'636
alleles (EMMA) # alleles 1 = 13; # alleles 2 = 9
condition / stat iso 10, LRT
p-value: **8.838x10⁻⁶**

Top hit 2 : position chr 17:12'503'901
alleles (EMMA) # alleles 1 = 13; # alleles 2 = 9
condition / stat iso 10, LRT
p-value: 8.838x10⁻⁶

Top hit 3 : position 17:12'539'636
alleles (EMMA) # alleles 1 = 13; # alleles 2 = 9
condition / stat iso 10, LRT
p-value: 8.838x10⁻⁶

