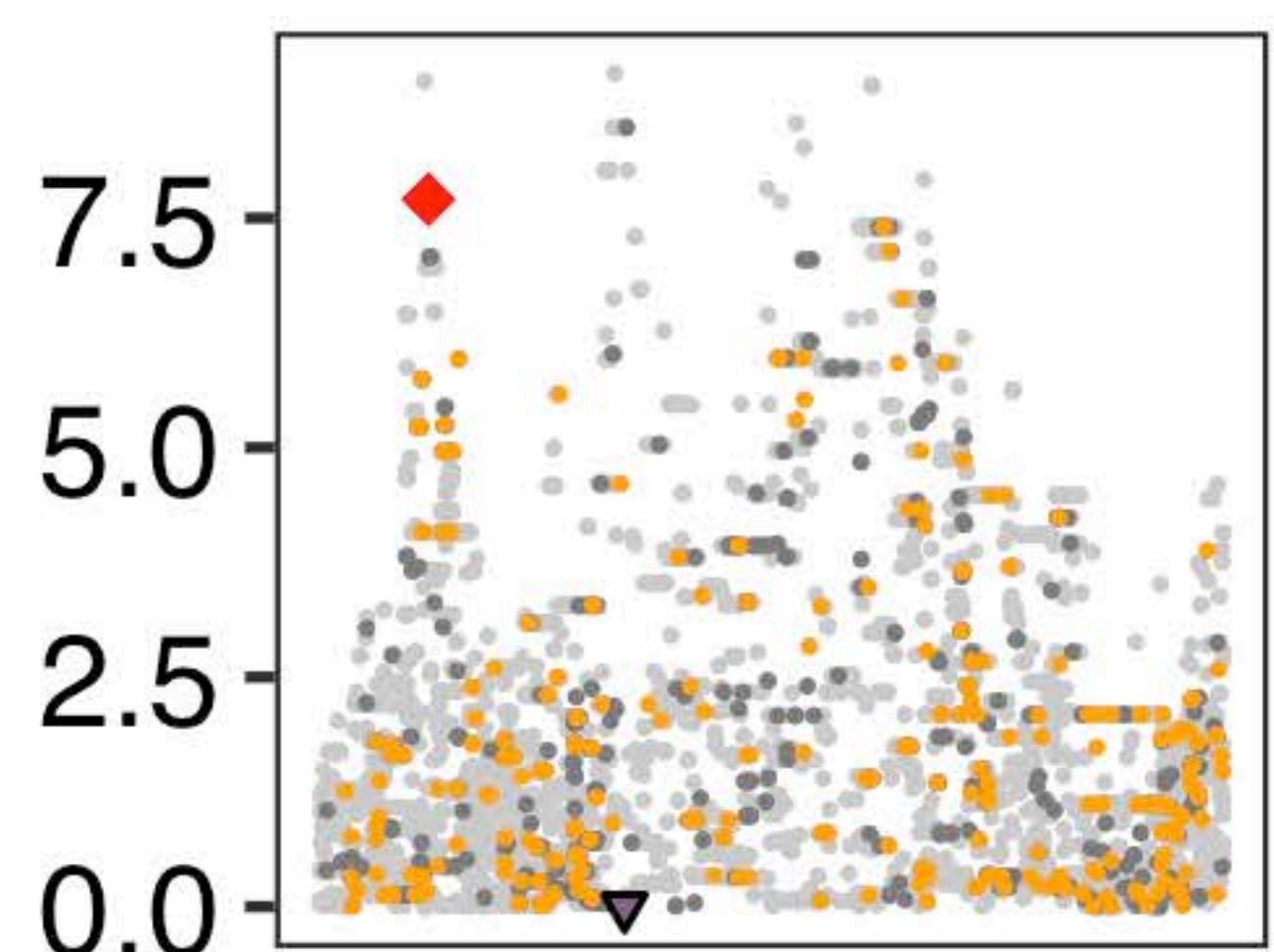
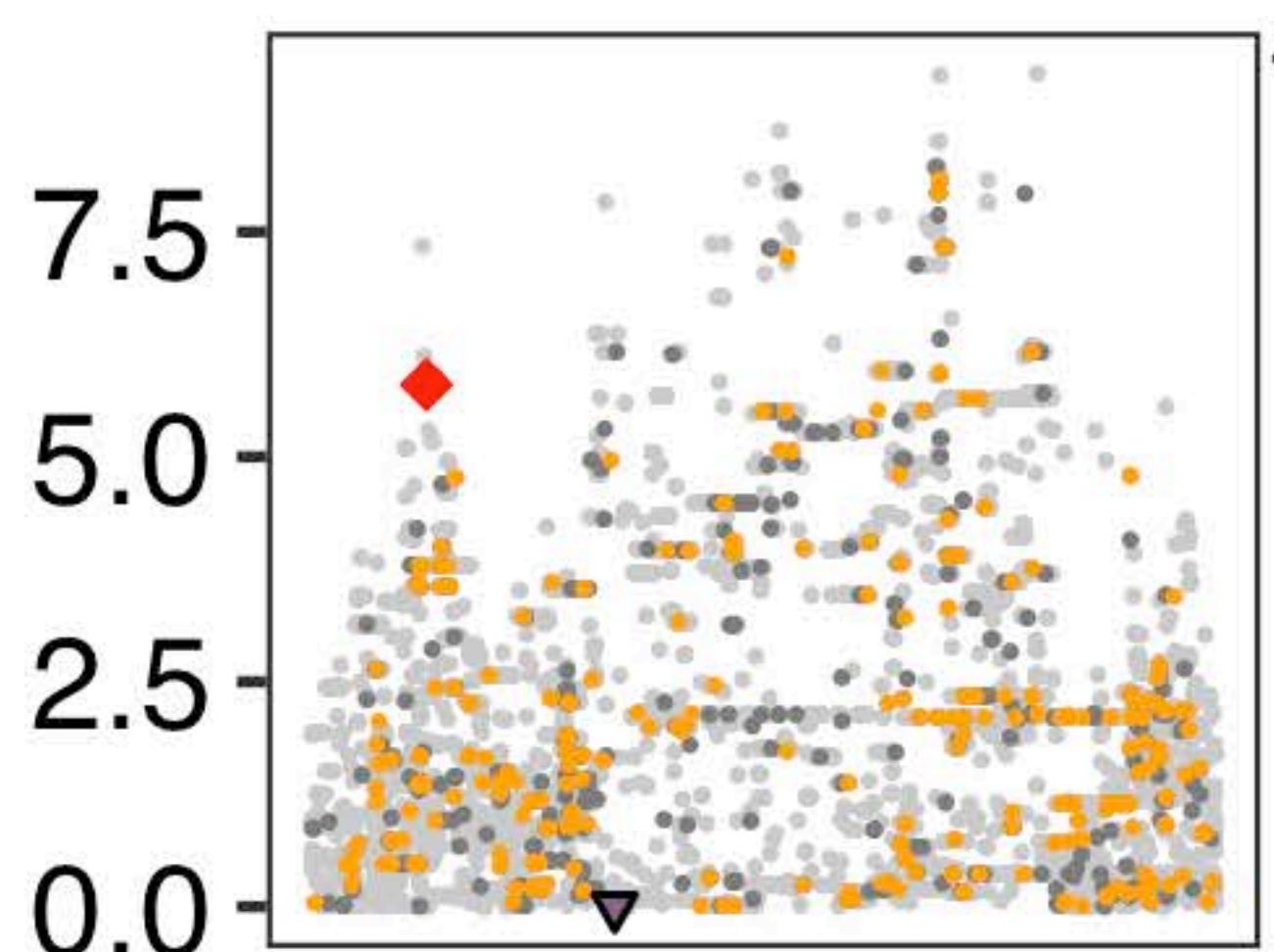
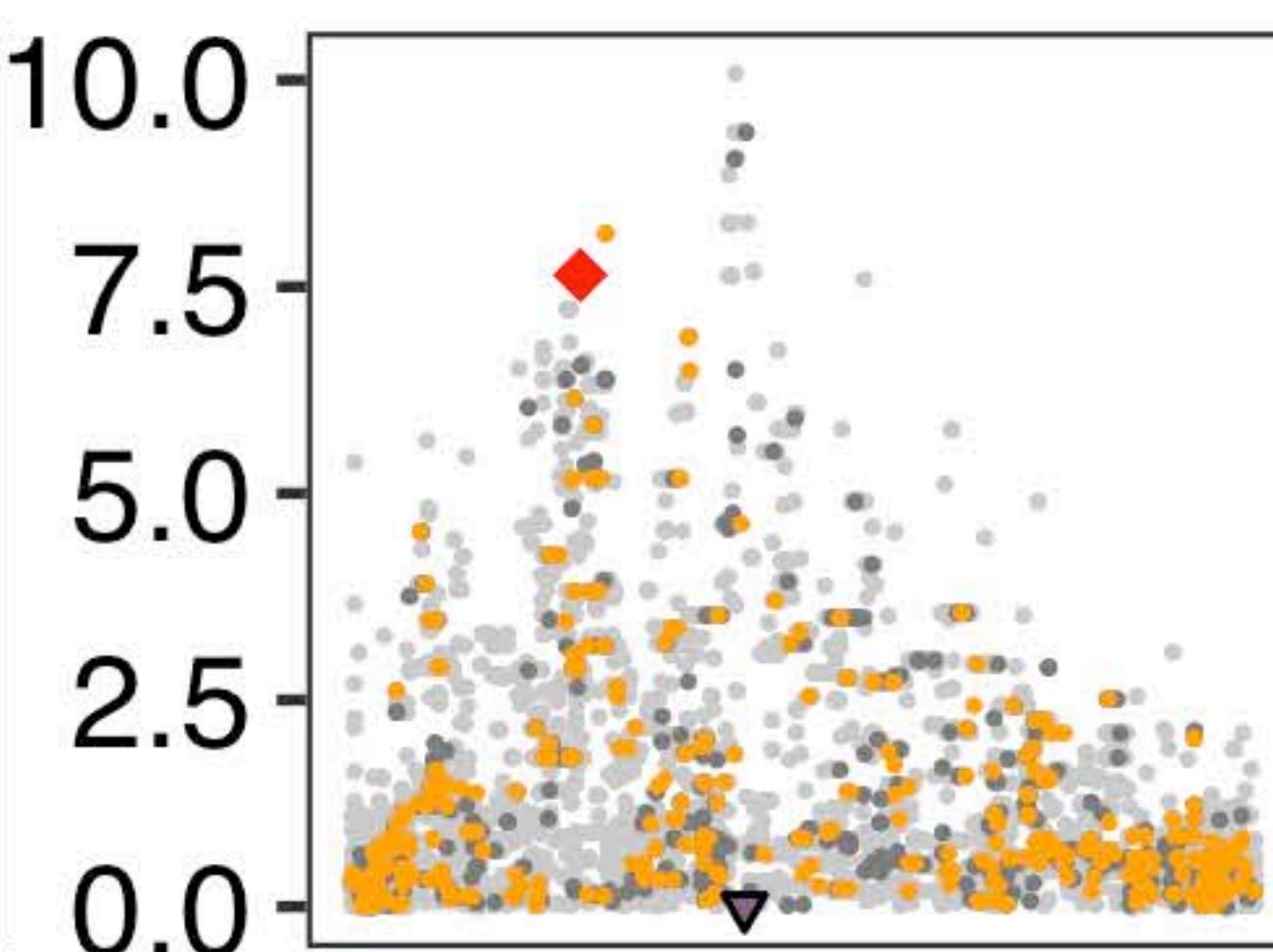
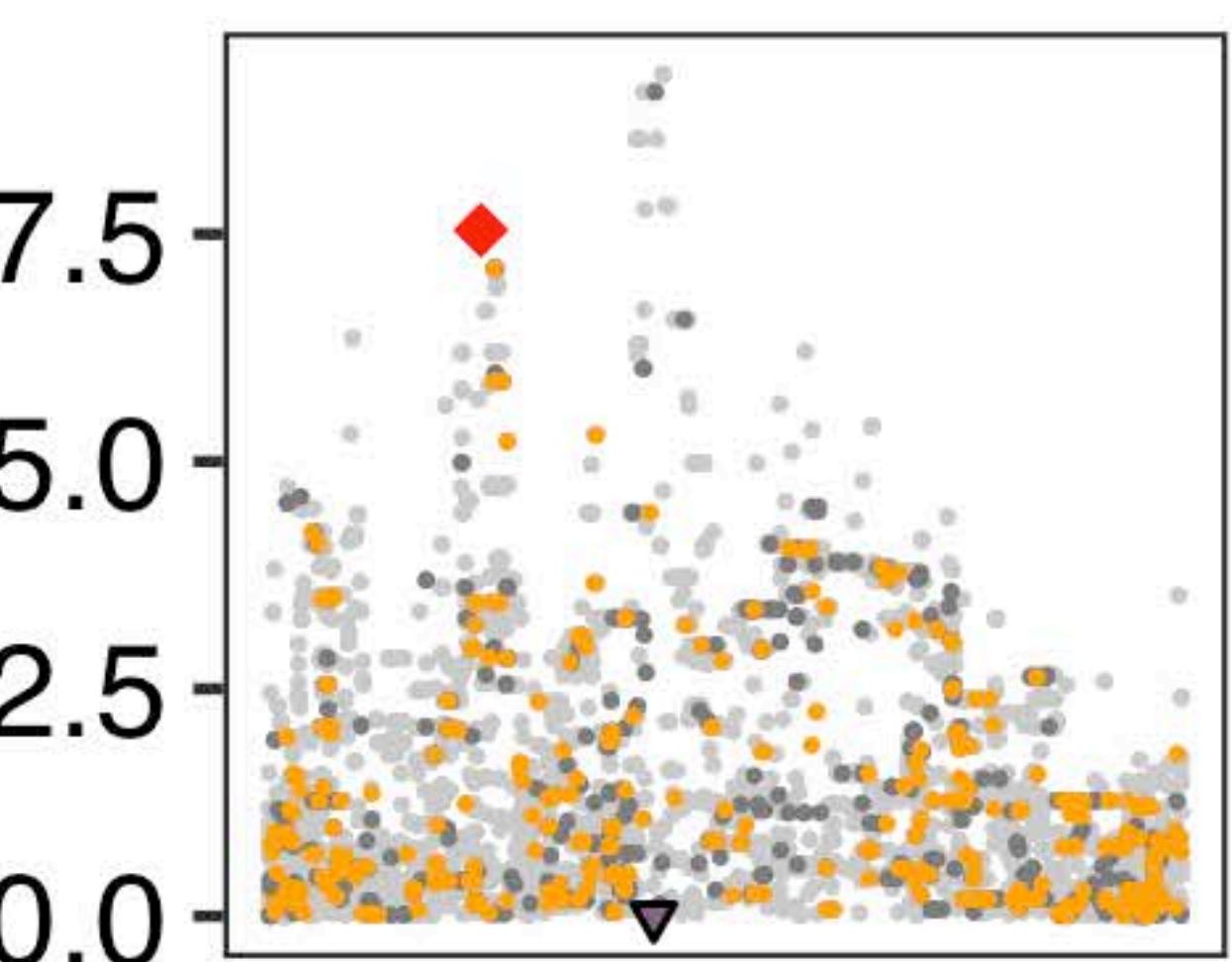
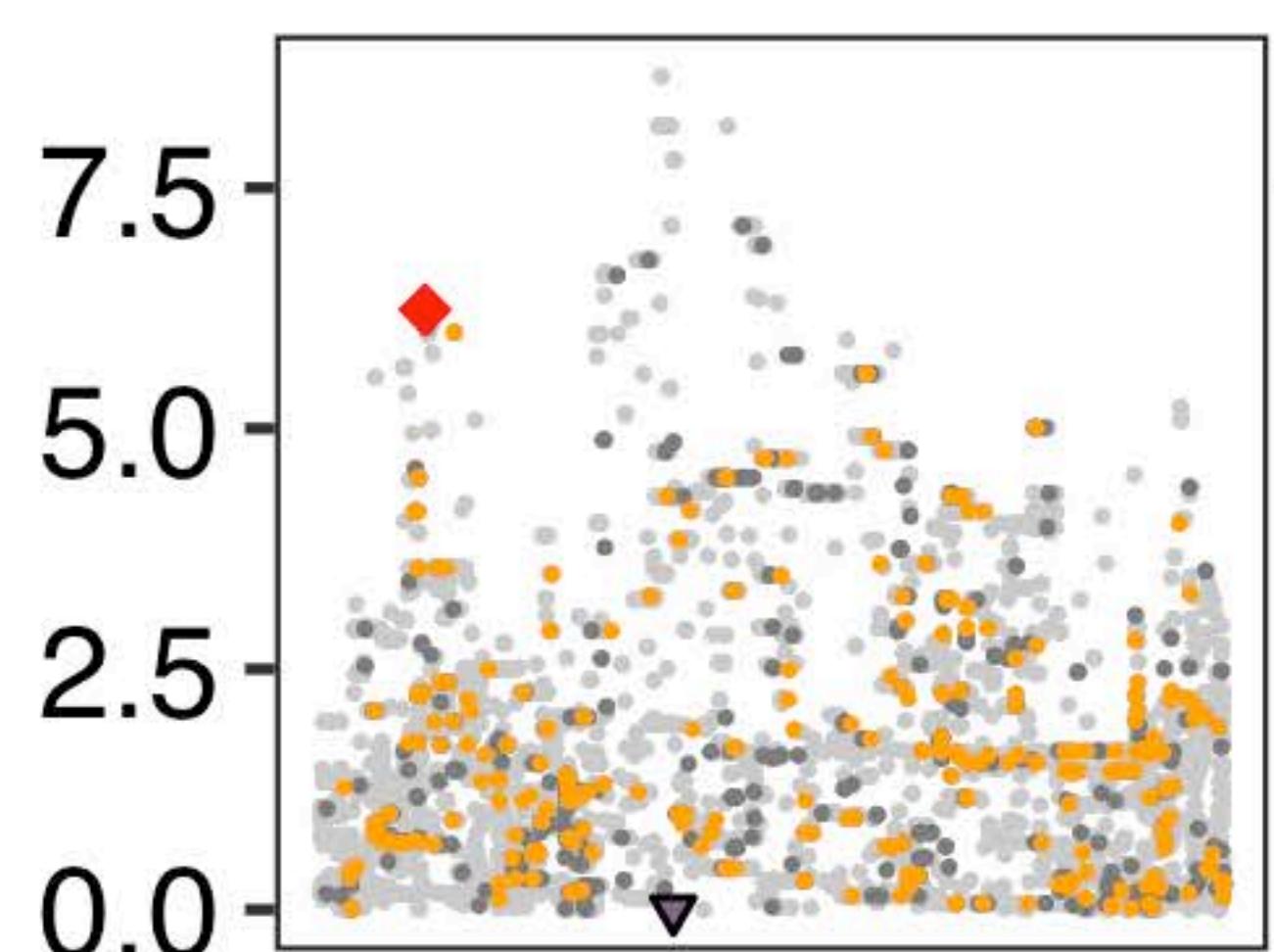
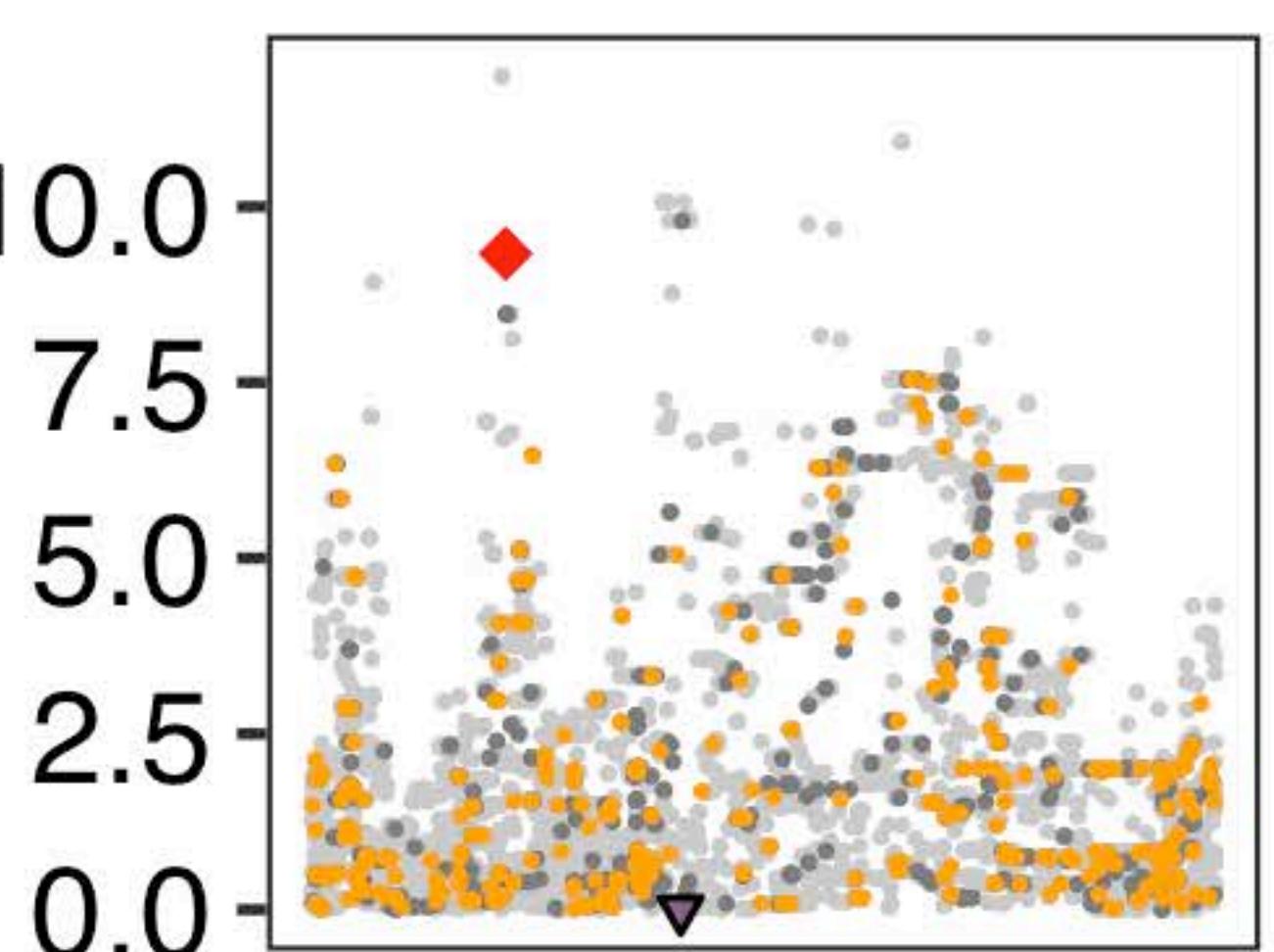
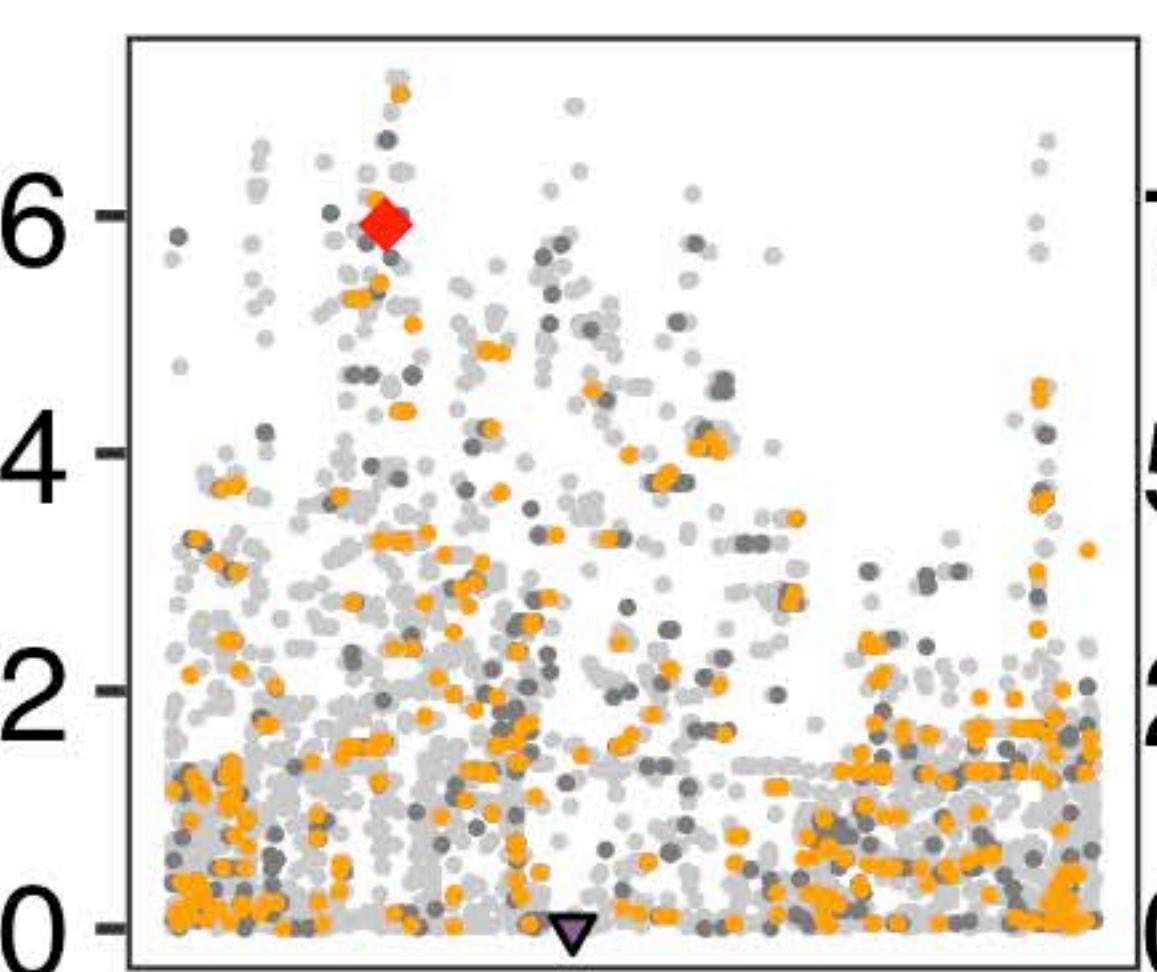
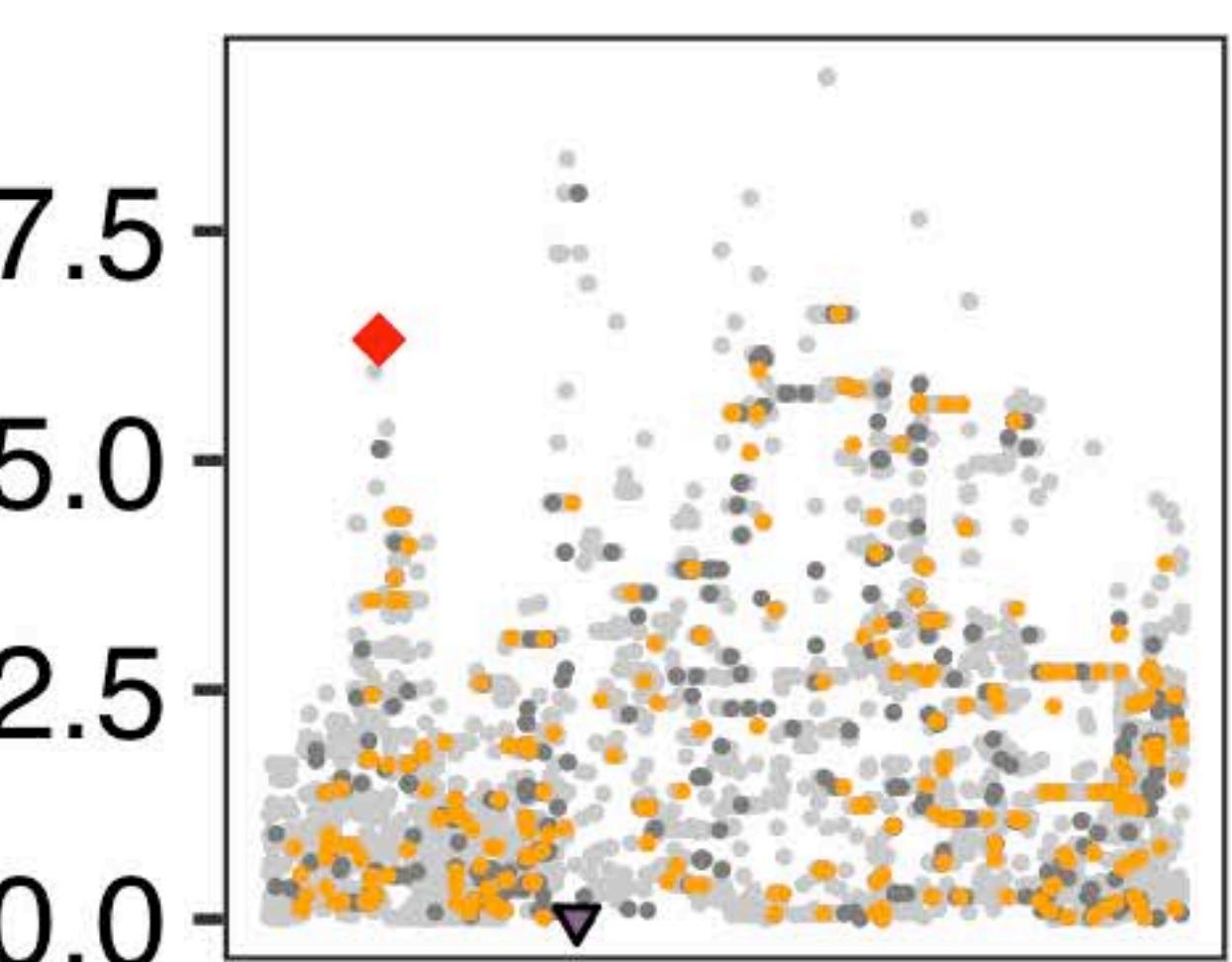
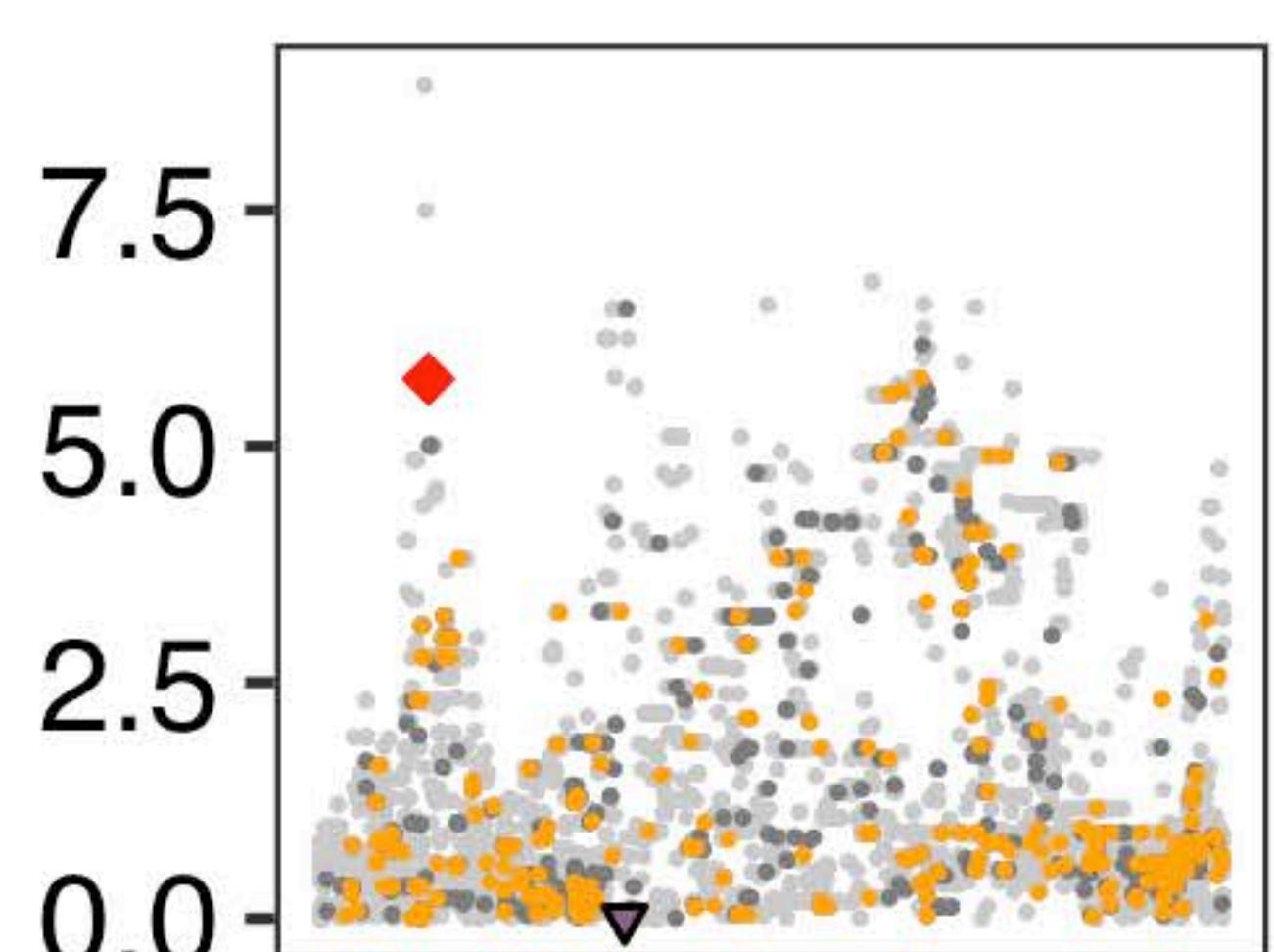
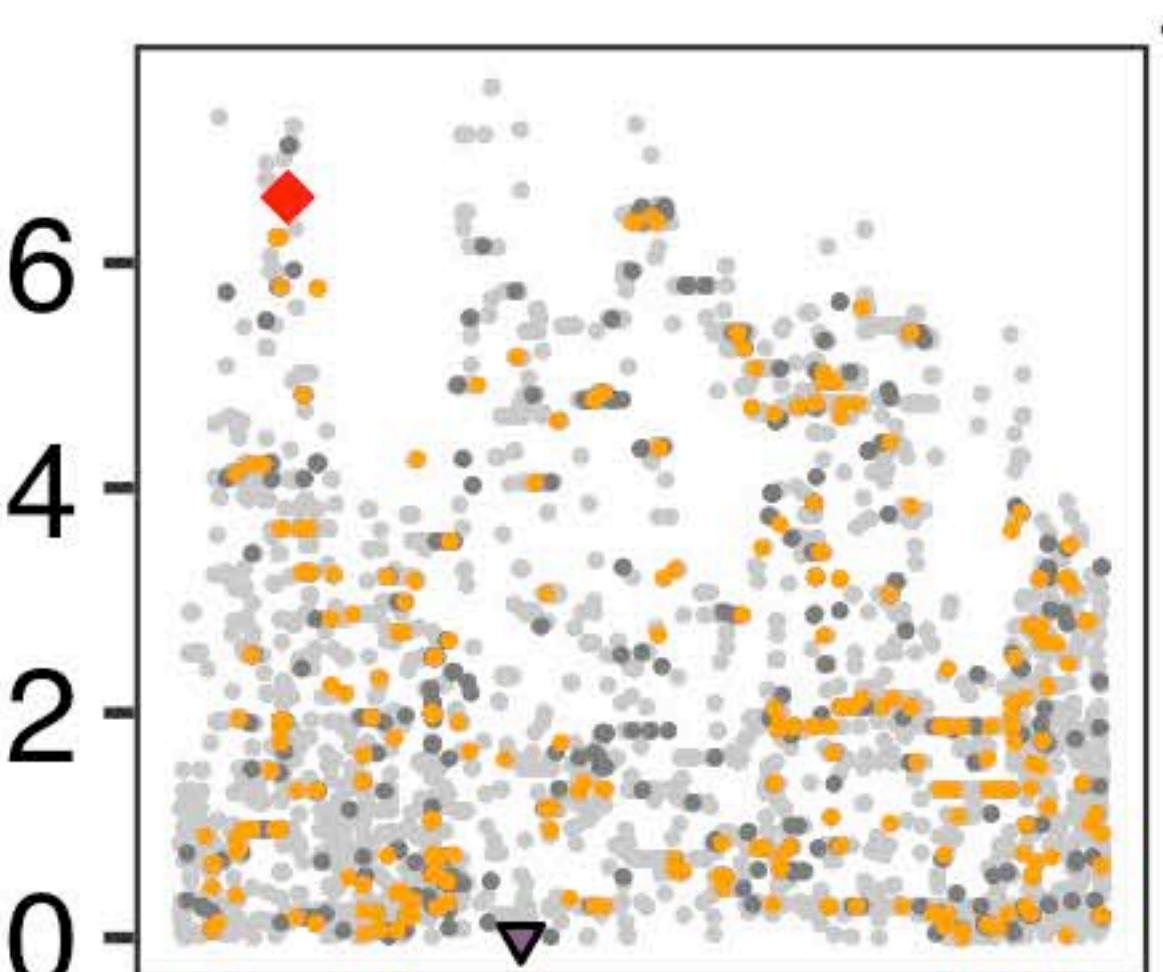
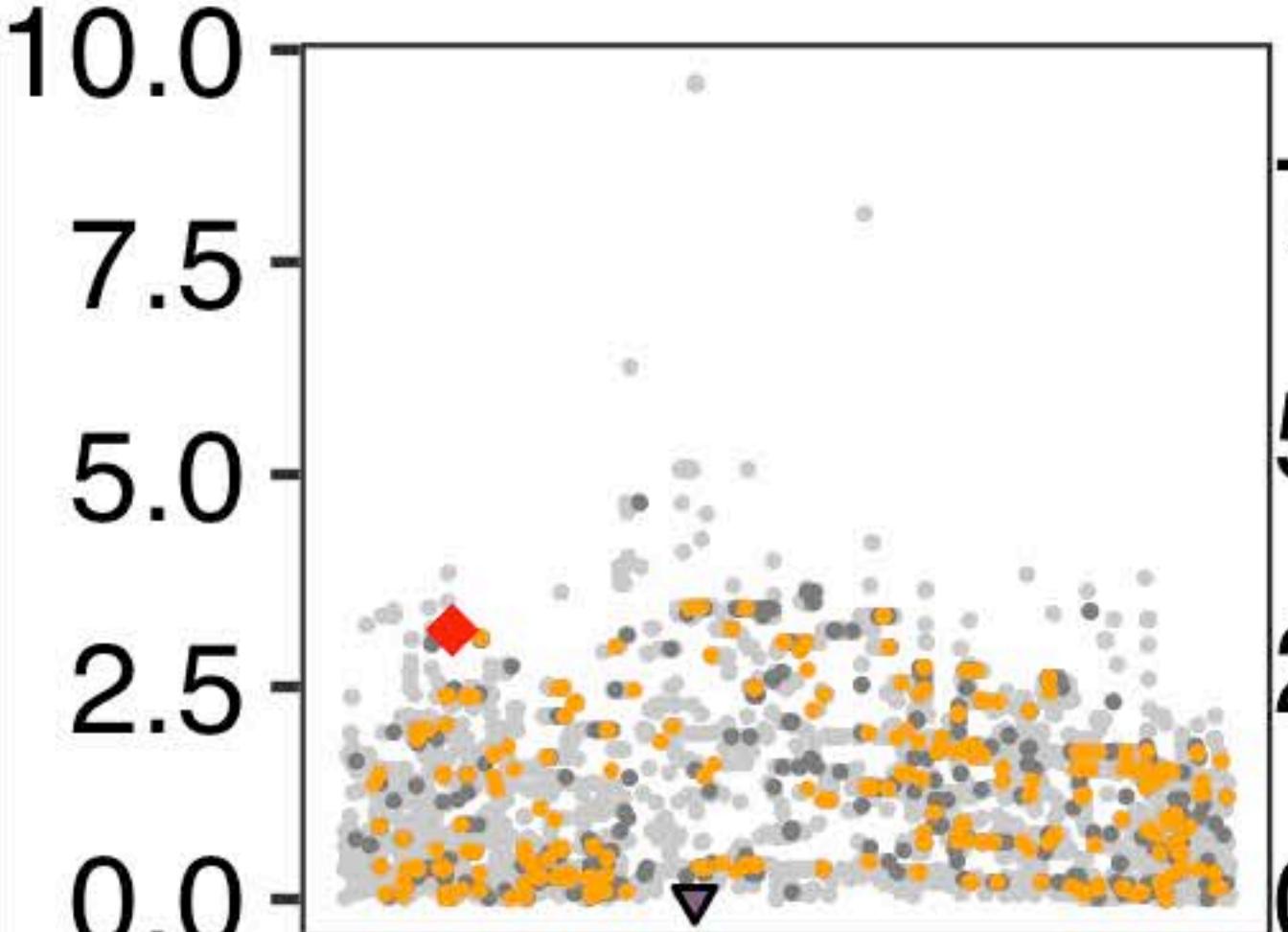
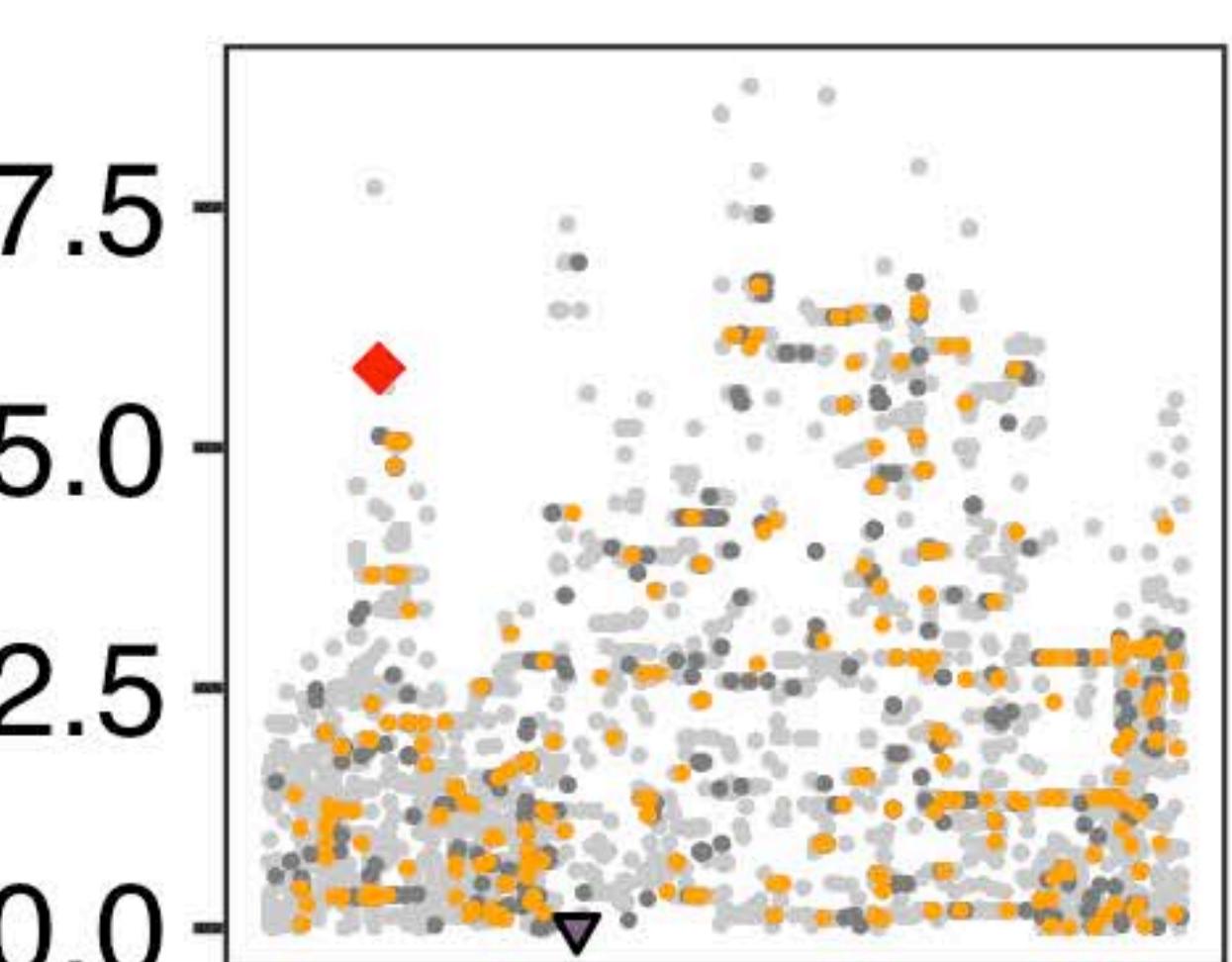
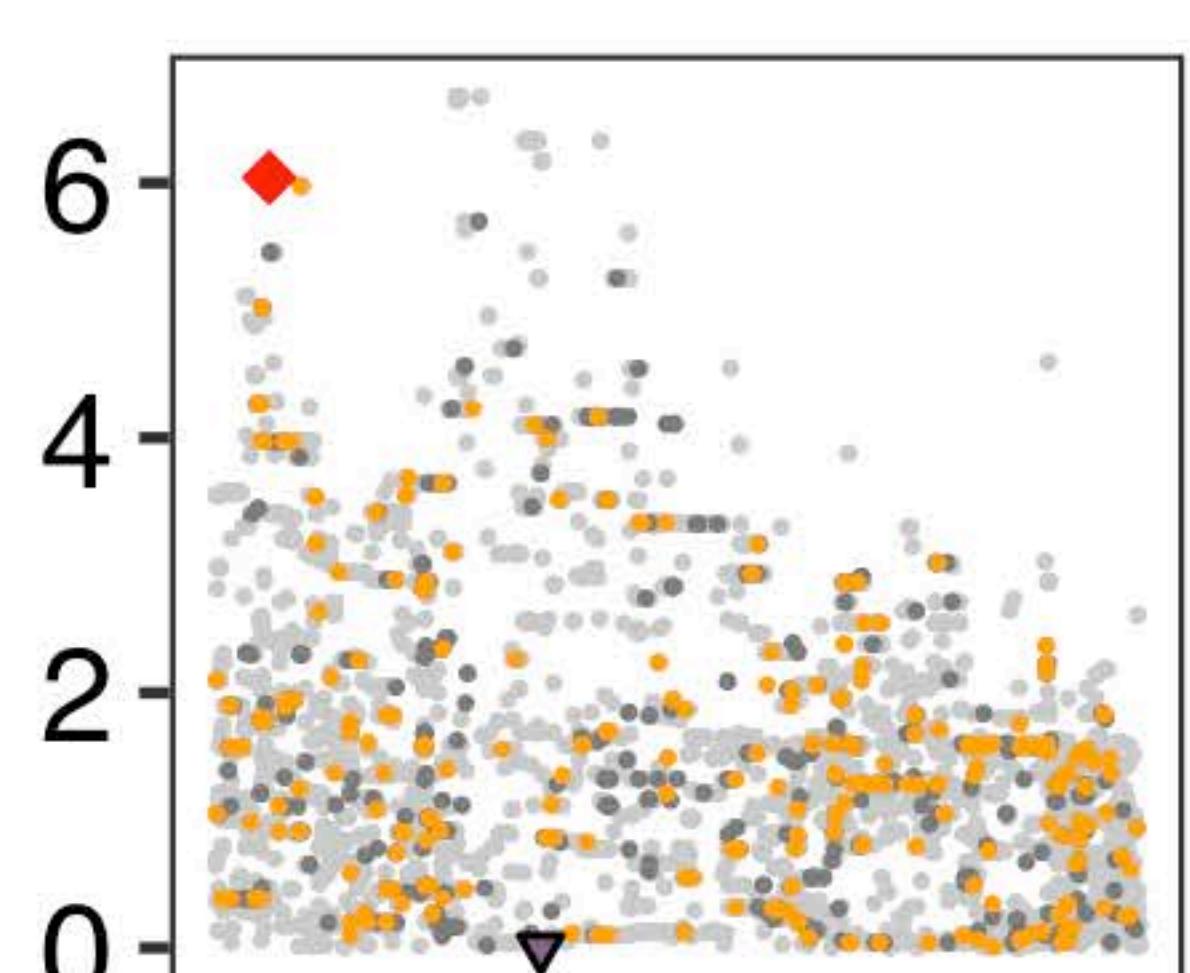
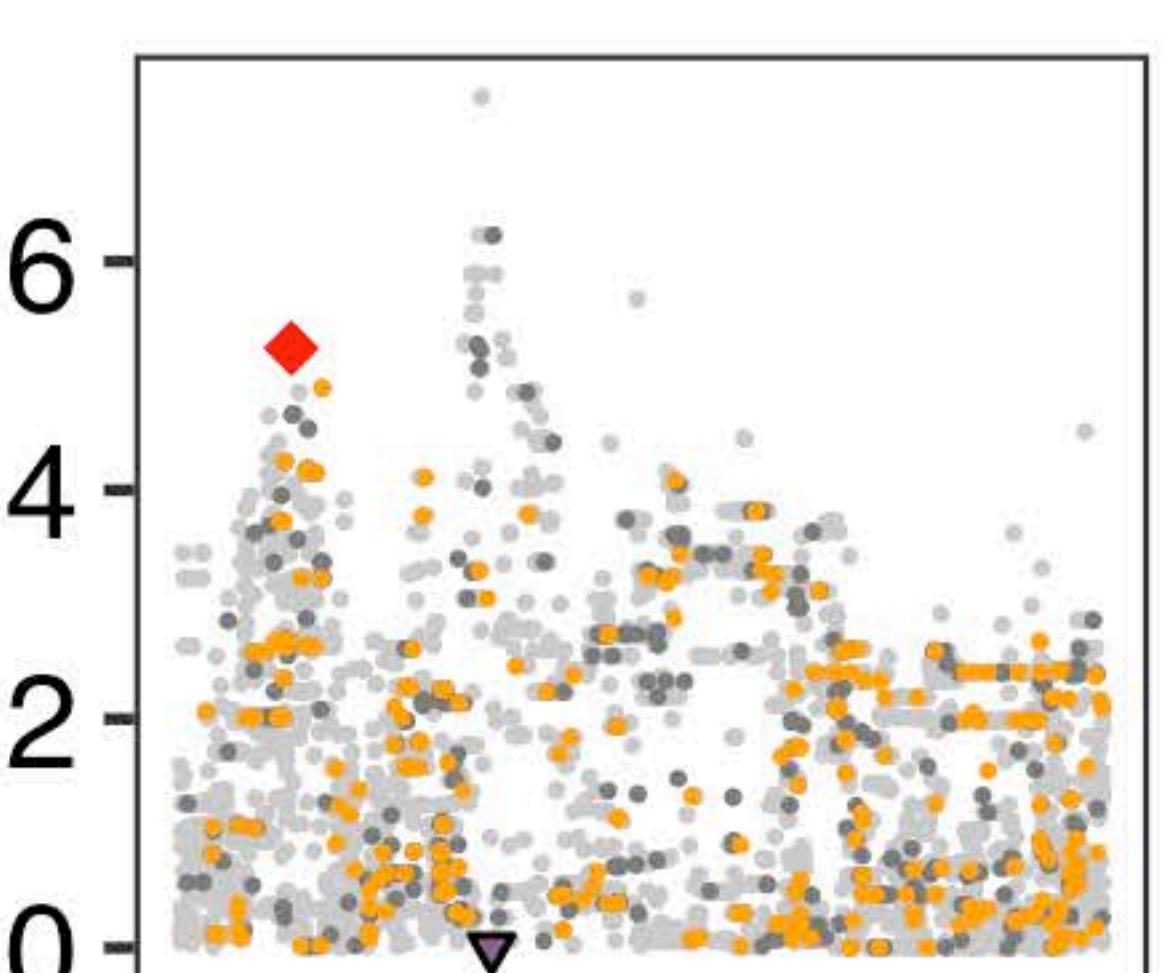
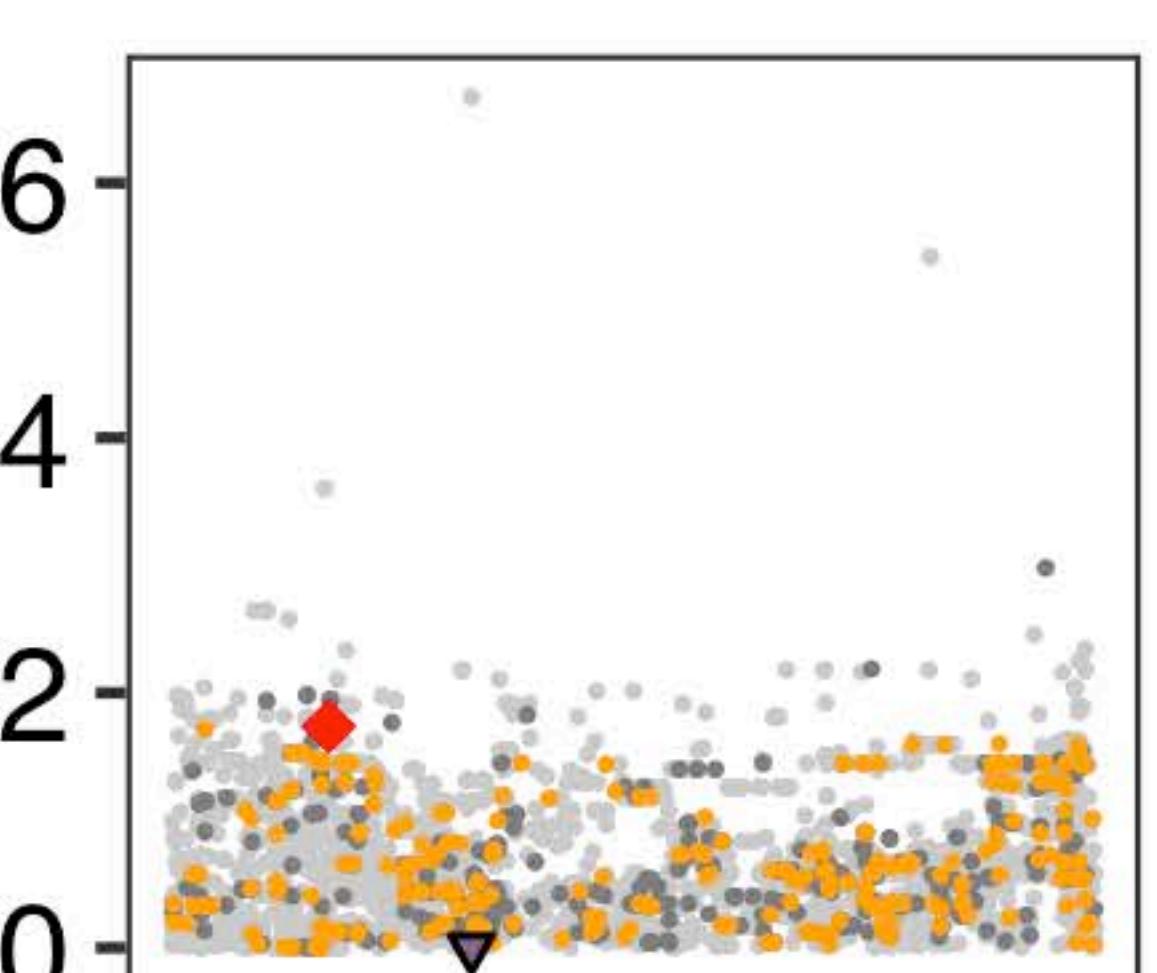
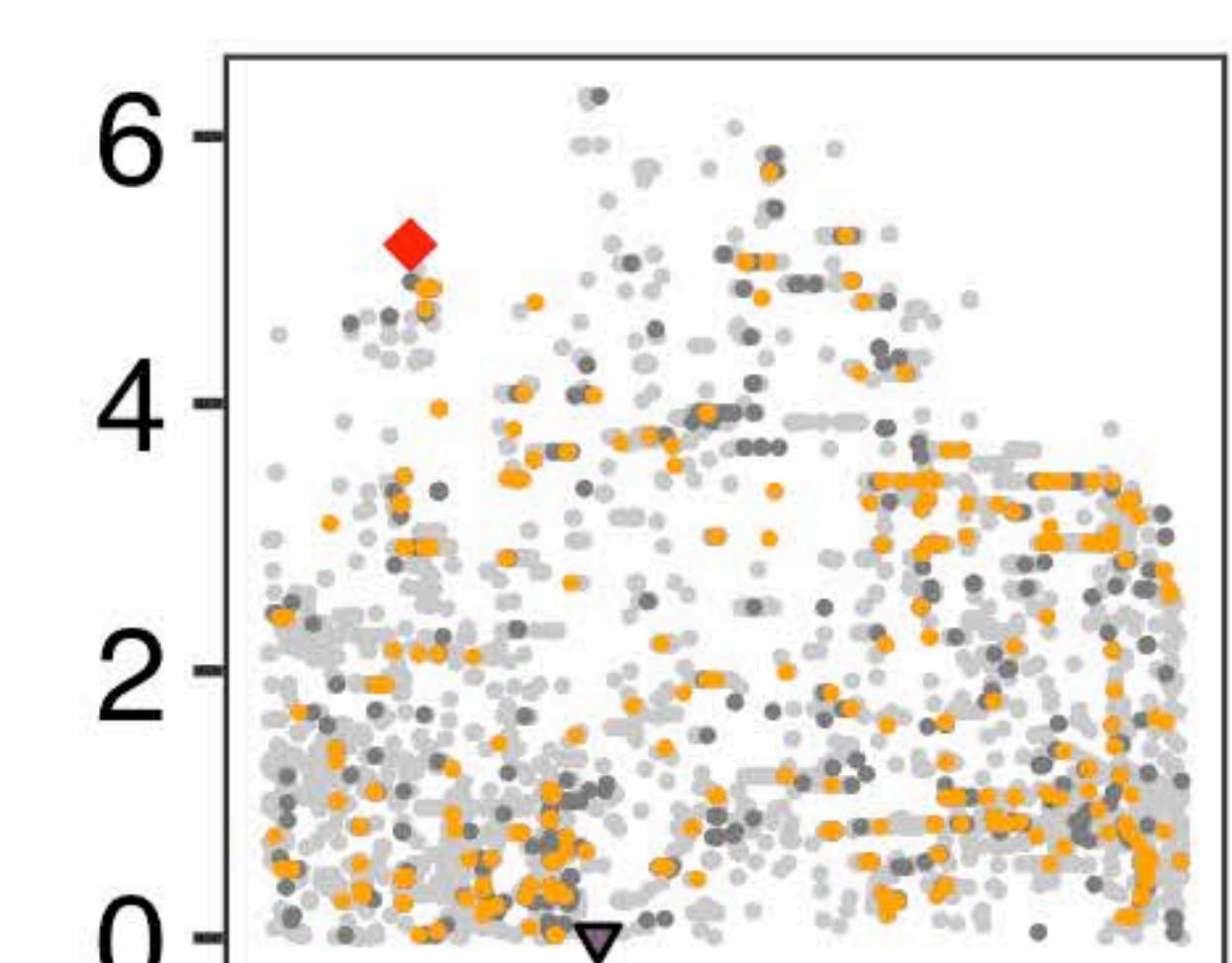
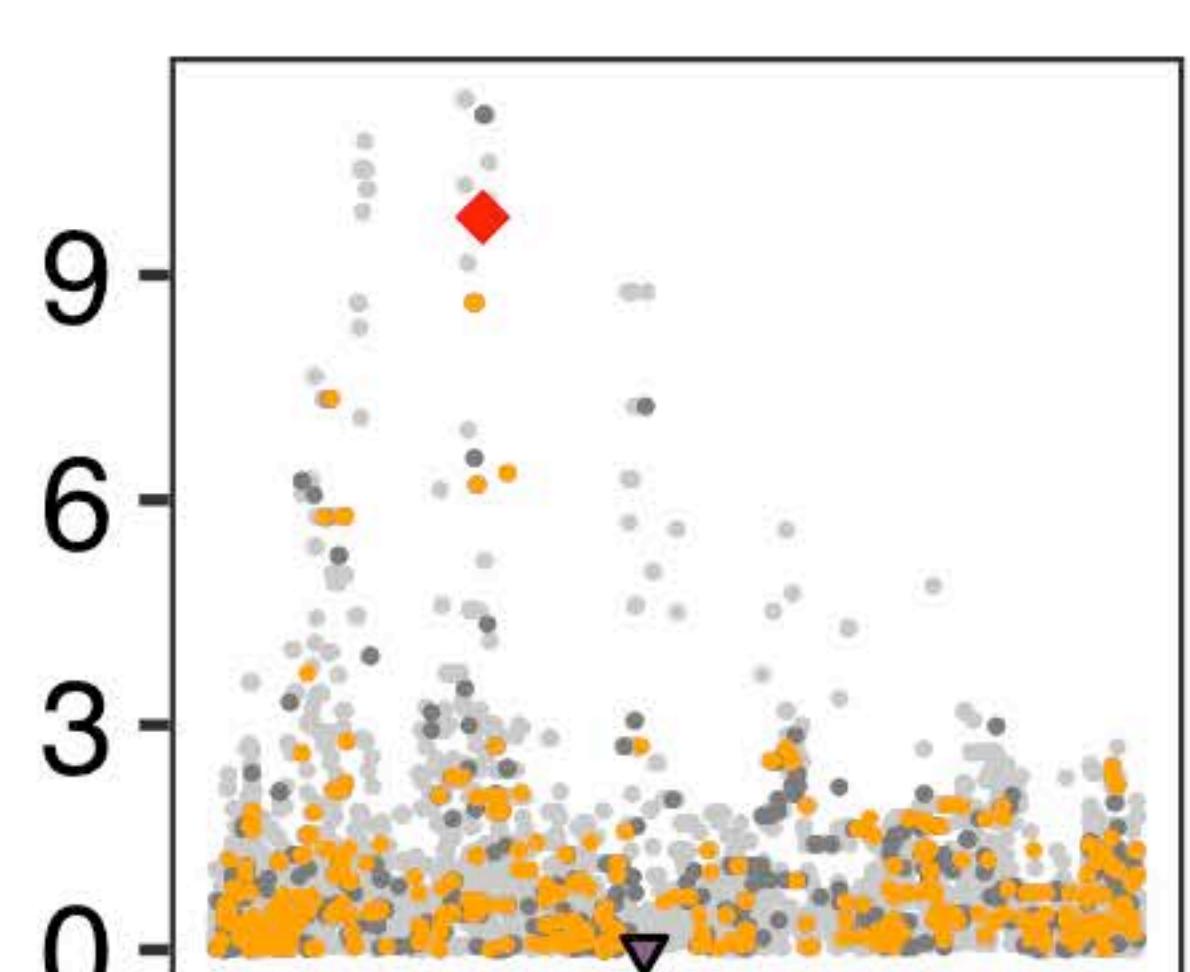


Chromosome IV: 31 cM

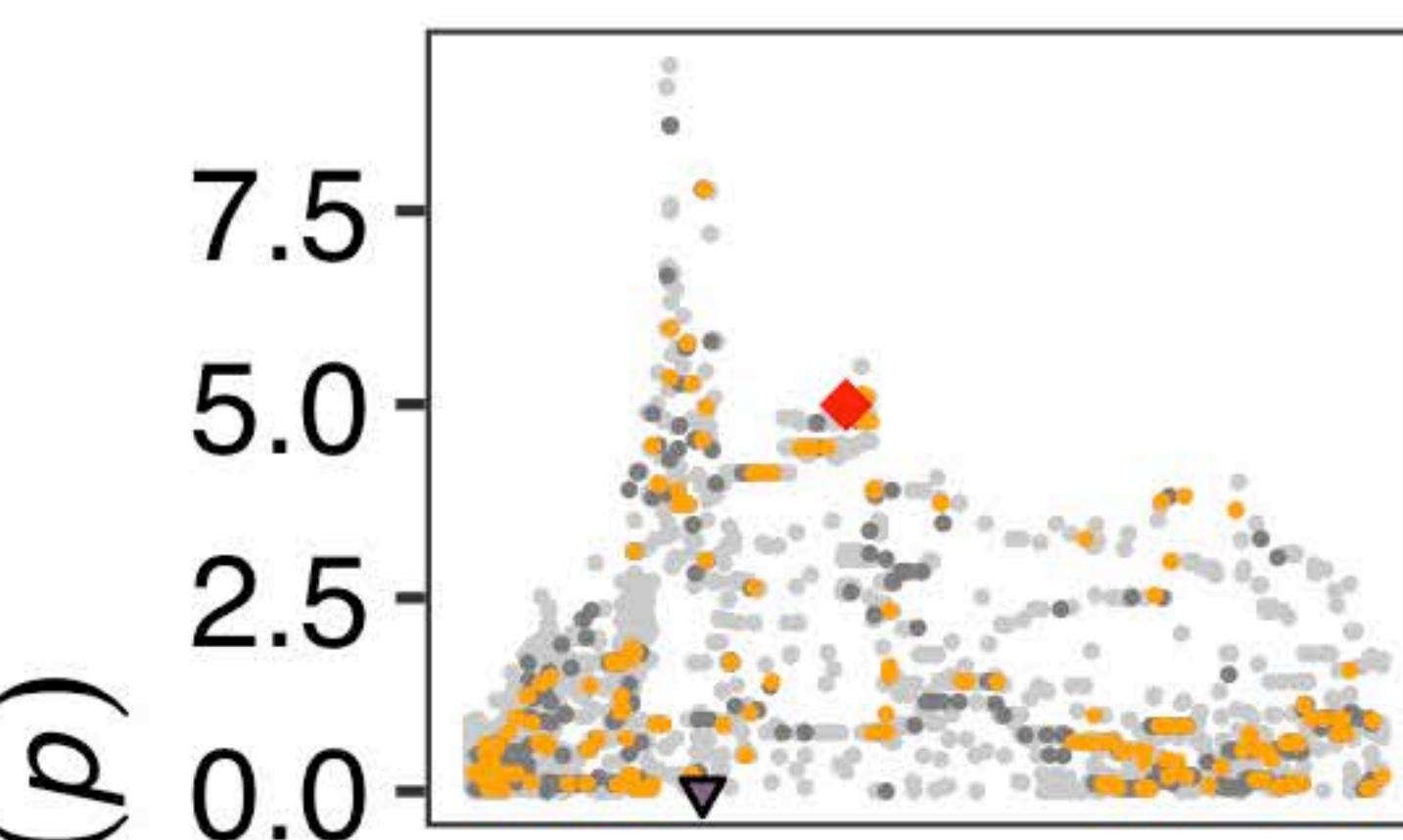
C08F8.15.1*C33F10.13.1**F15A4.13.1**F46F3.1a.1**F48E3.4.1**F56A12.1.1**K08D12.3b.1**R08C7.13.1**R08C7.9.1**R13A5.5.2**R13H9.4.1**T14G12.4a.1**Y47G6A.10.1**Y55B1BR.3.2**Y55F3AM.7b.1**Y73C8C.8.1**ZK993.1a.1*

Genomic position (Mb)

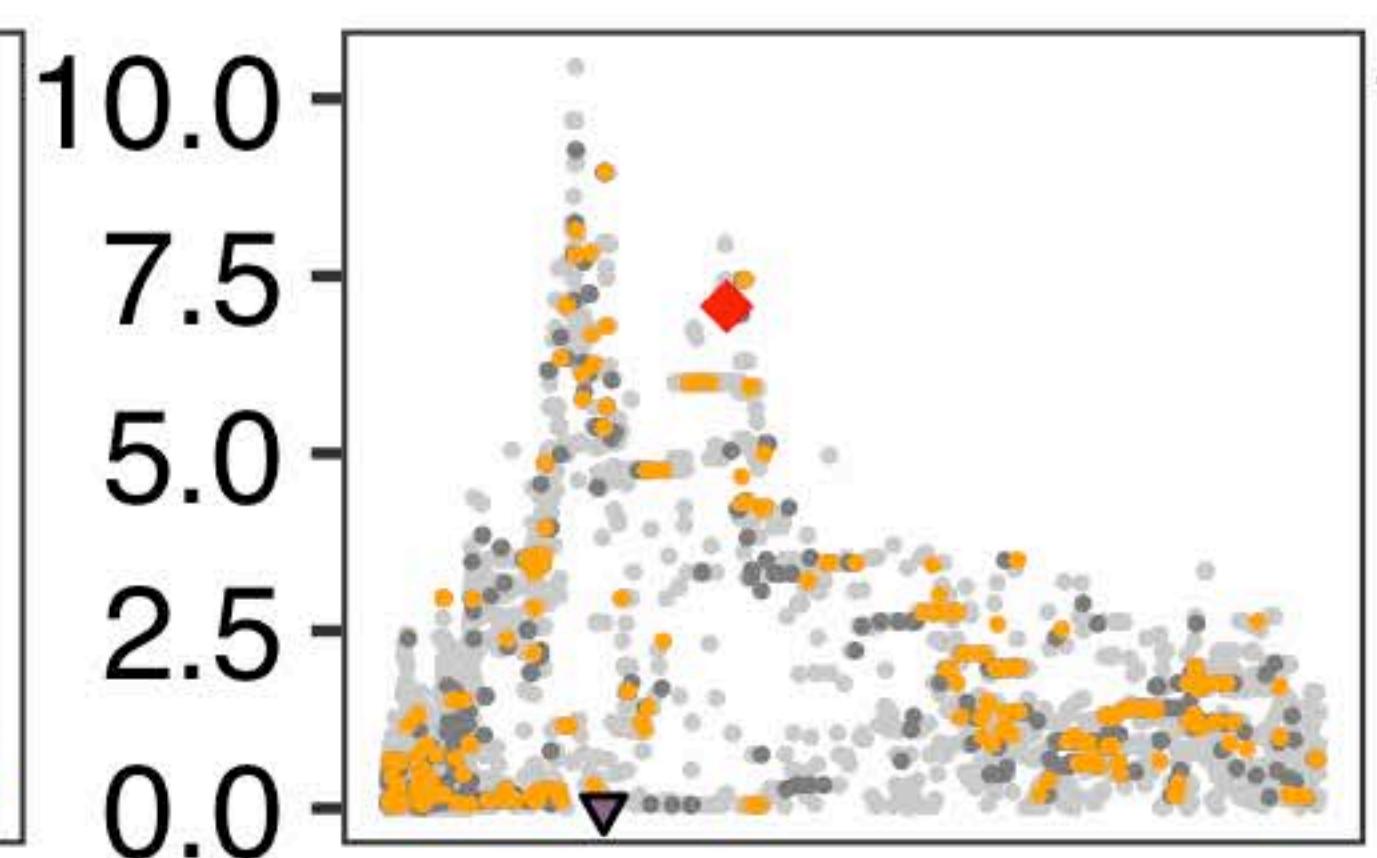
Candidate genes *hil-2*

Chromosome I: 21 cM

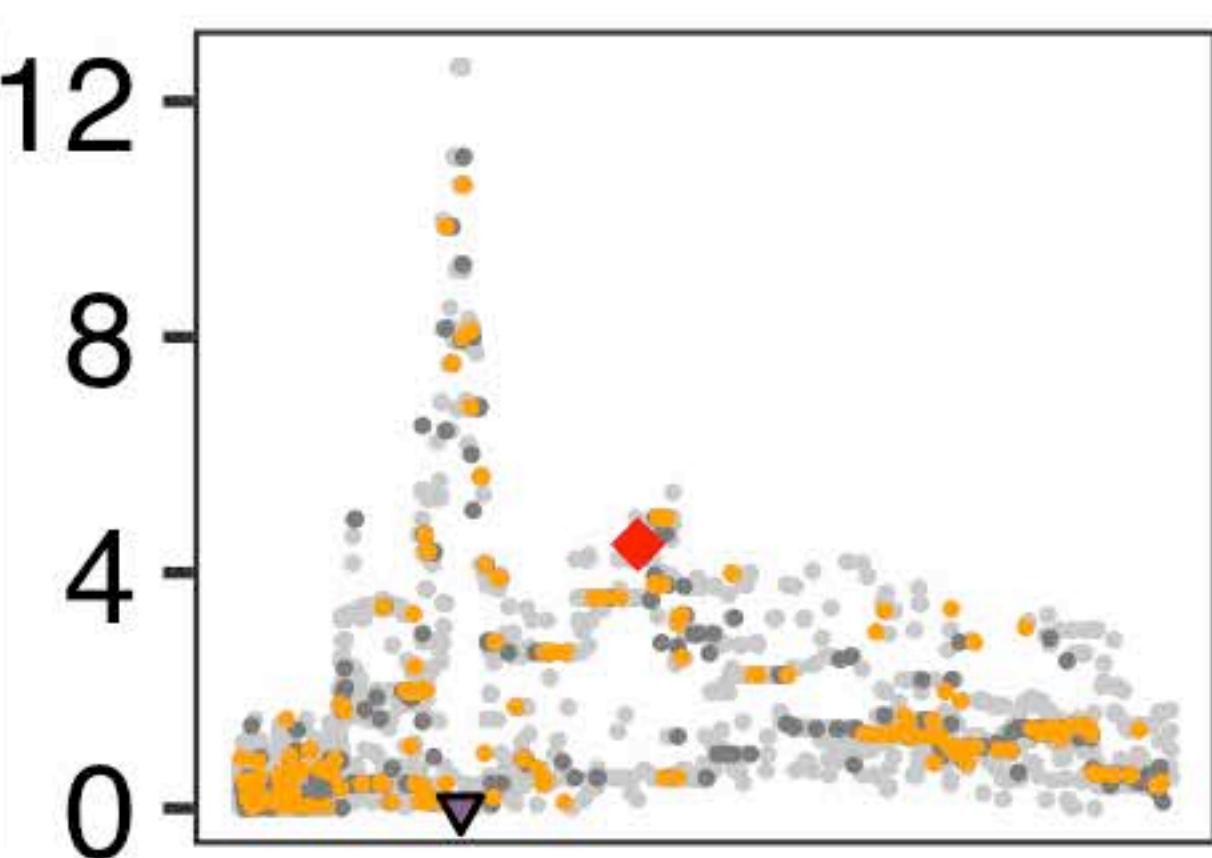
C36A4.11.1



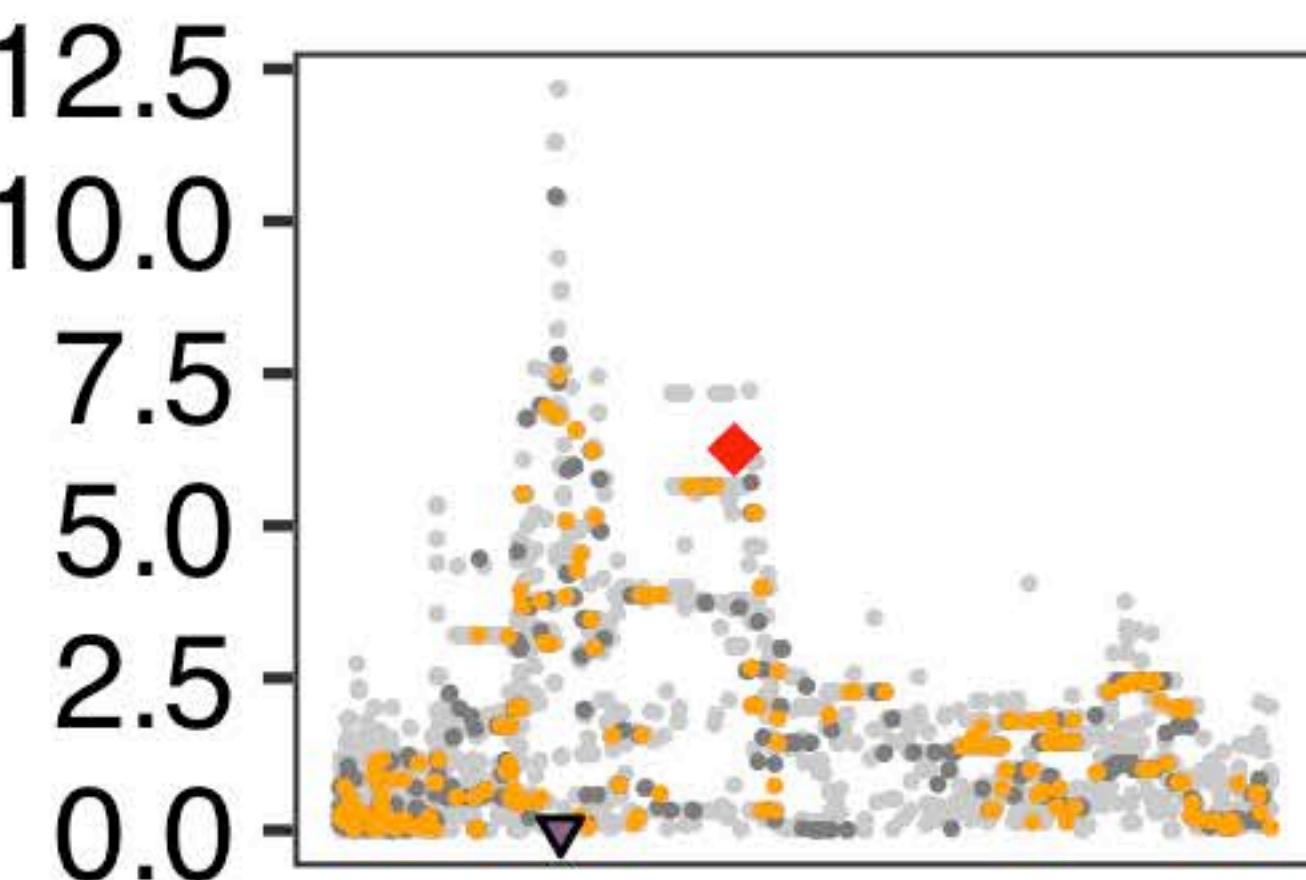
F19G12.9a.1



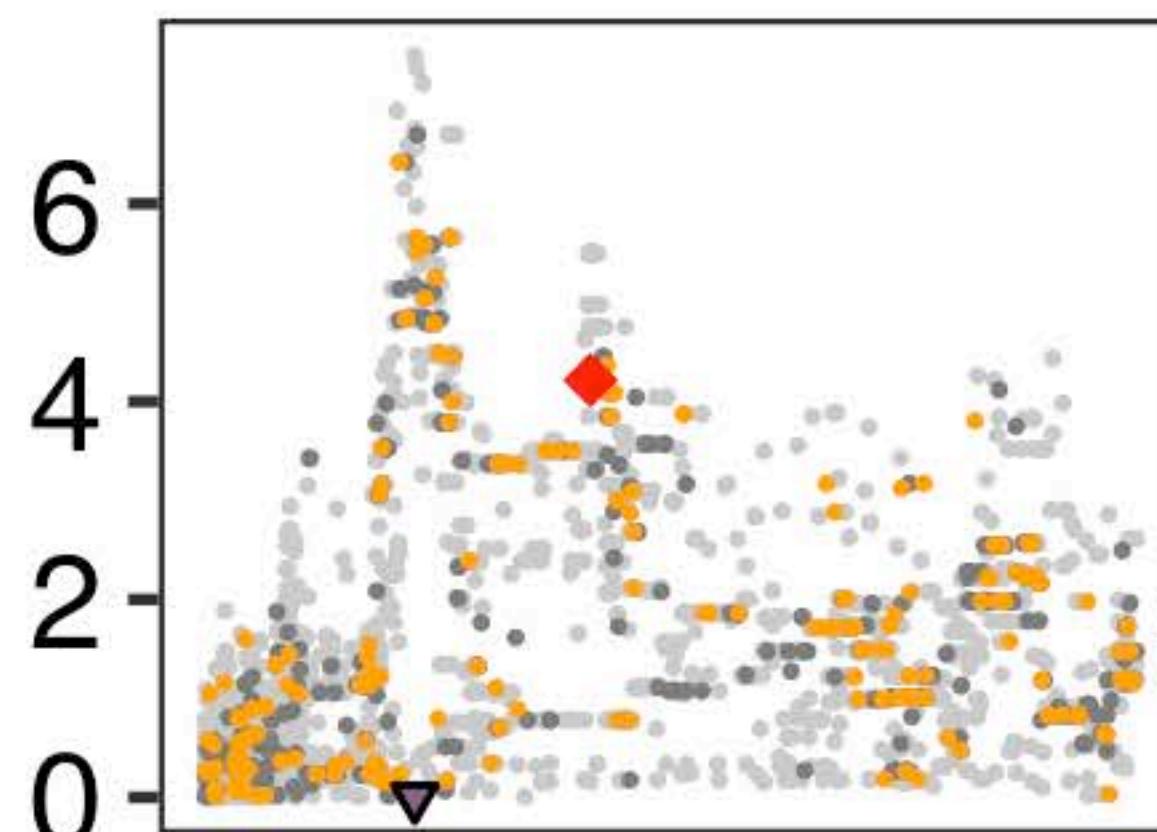
K02E2.6.1



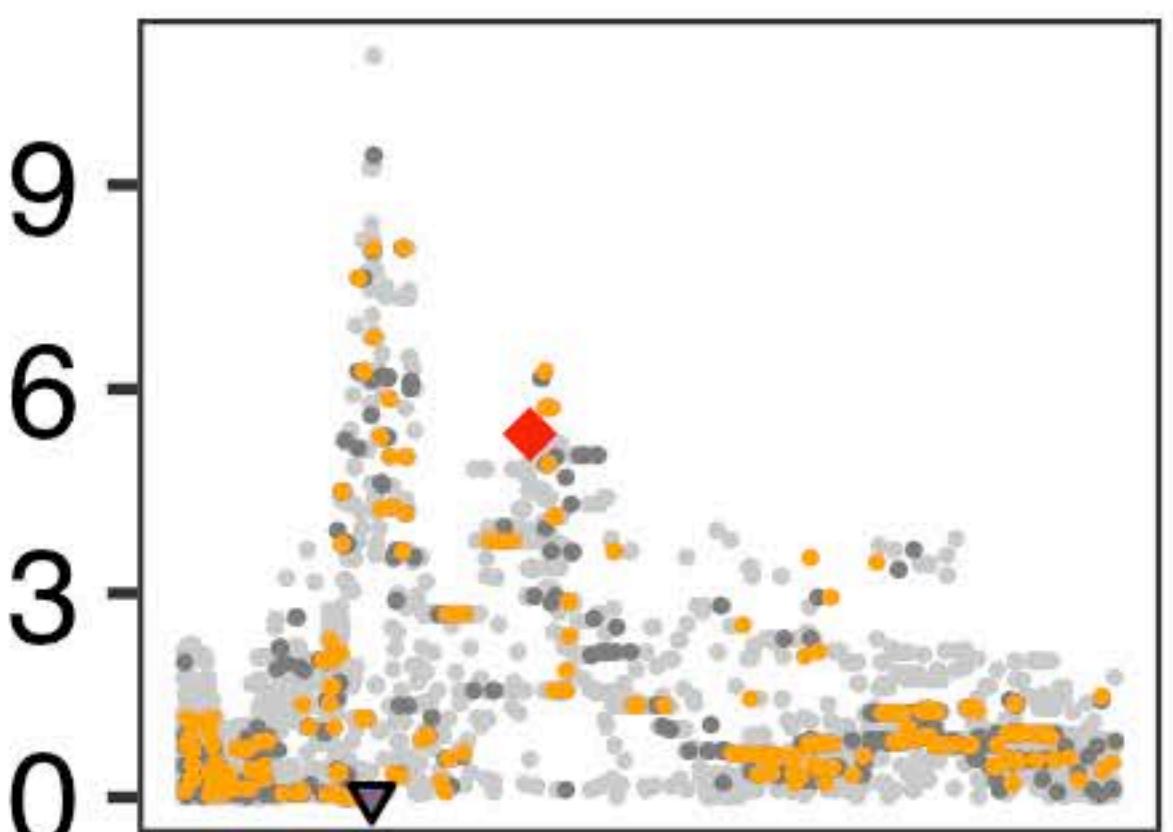
W04A4.2.1



W04B5.1



Y105C5A.25



Genomic position (Mb)

Candidate genes

◆ *lim-7*

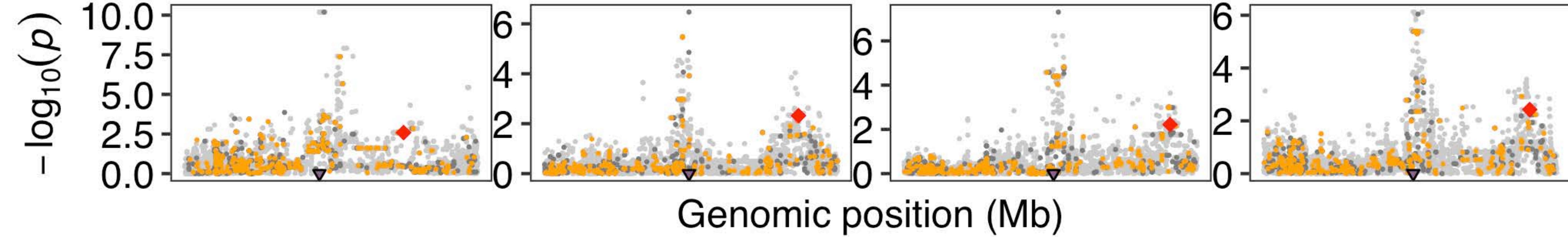
Chromosome I: 39.5 cM

C08E3.12.1

R10E8.6.1

ZK112.2d.1

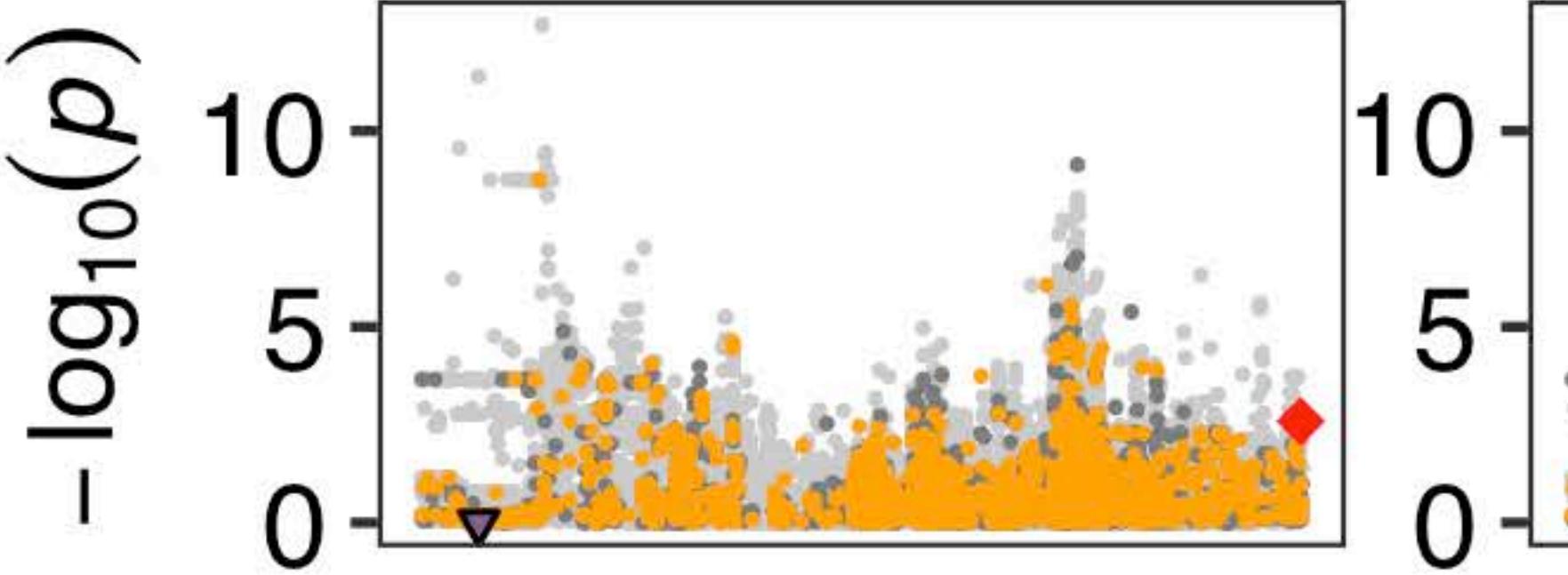
ZK666.6.1



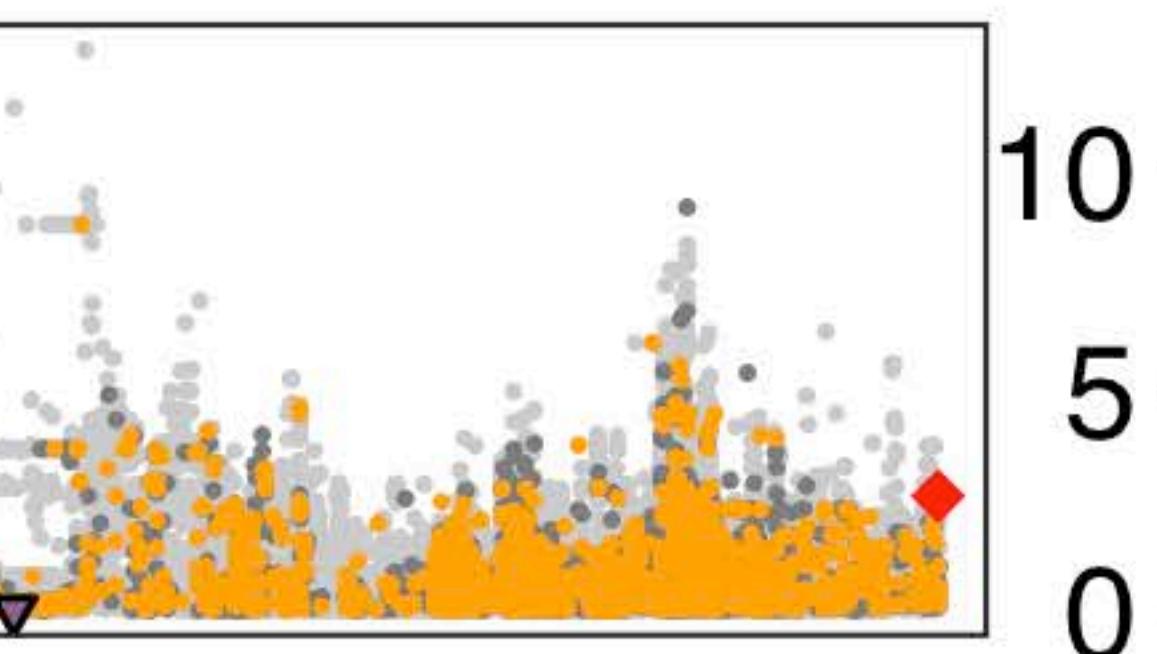
Candidate genes ♦ *nhr-276*

Chromosome II: 2.5 cM

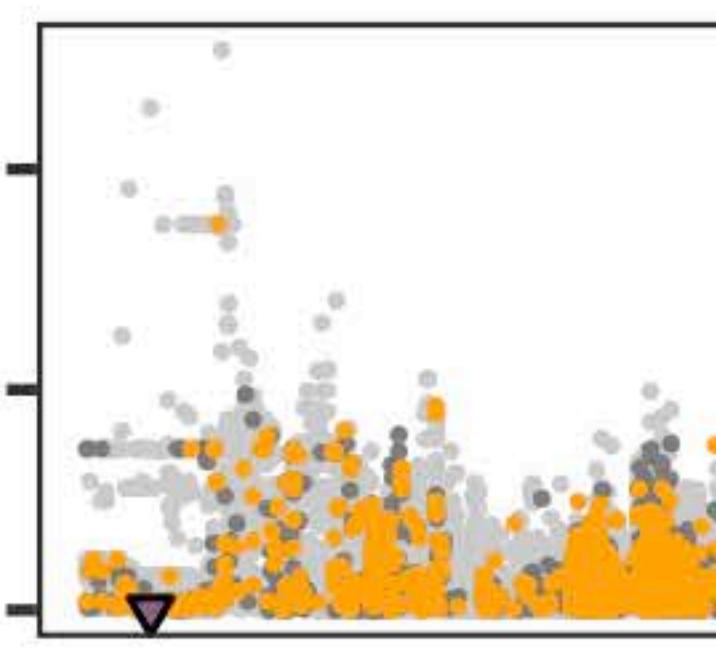
F07B7.11.1



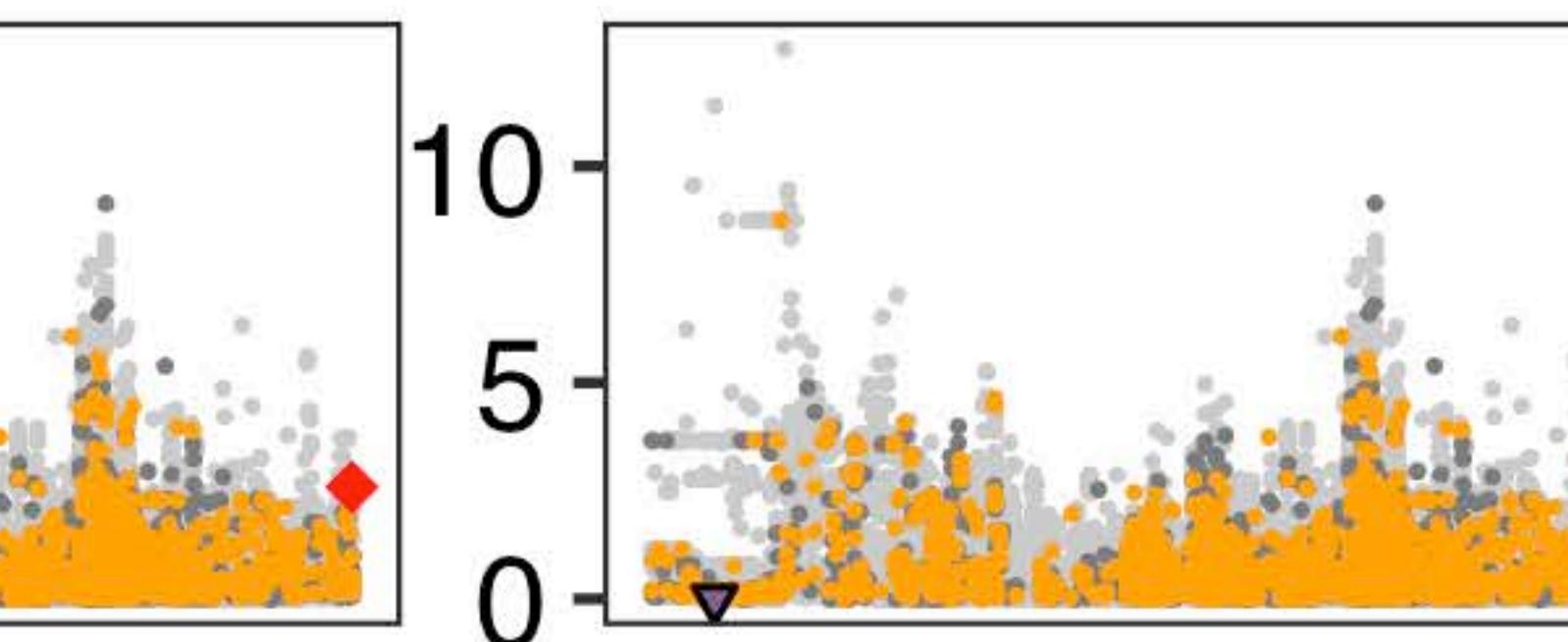
F07B7.4.1



K06C4.12.1

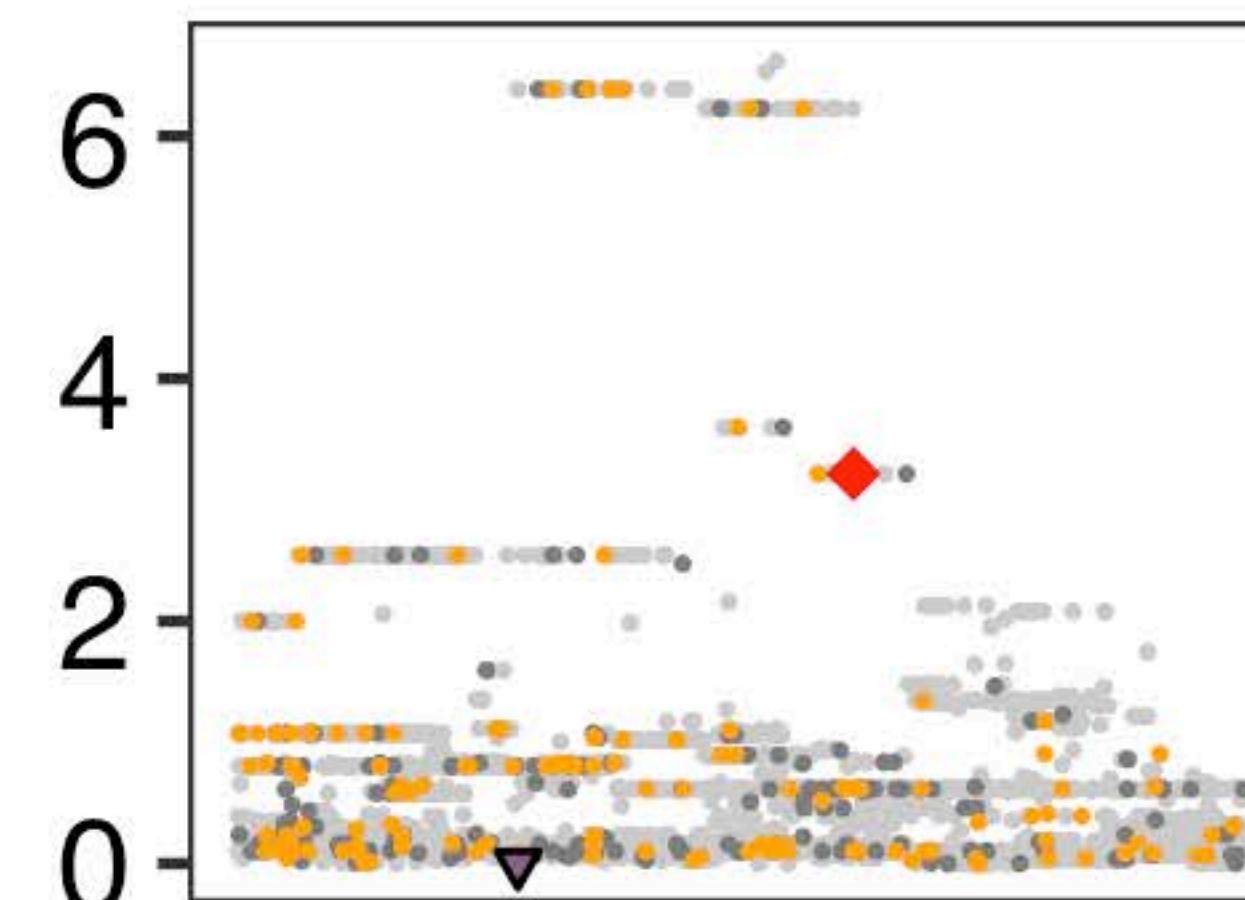
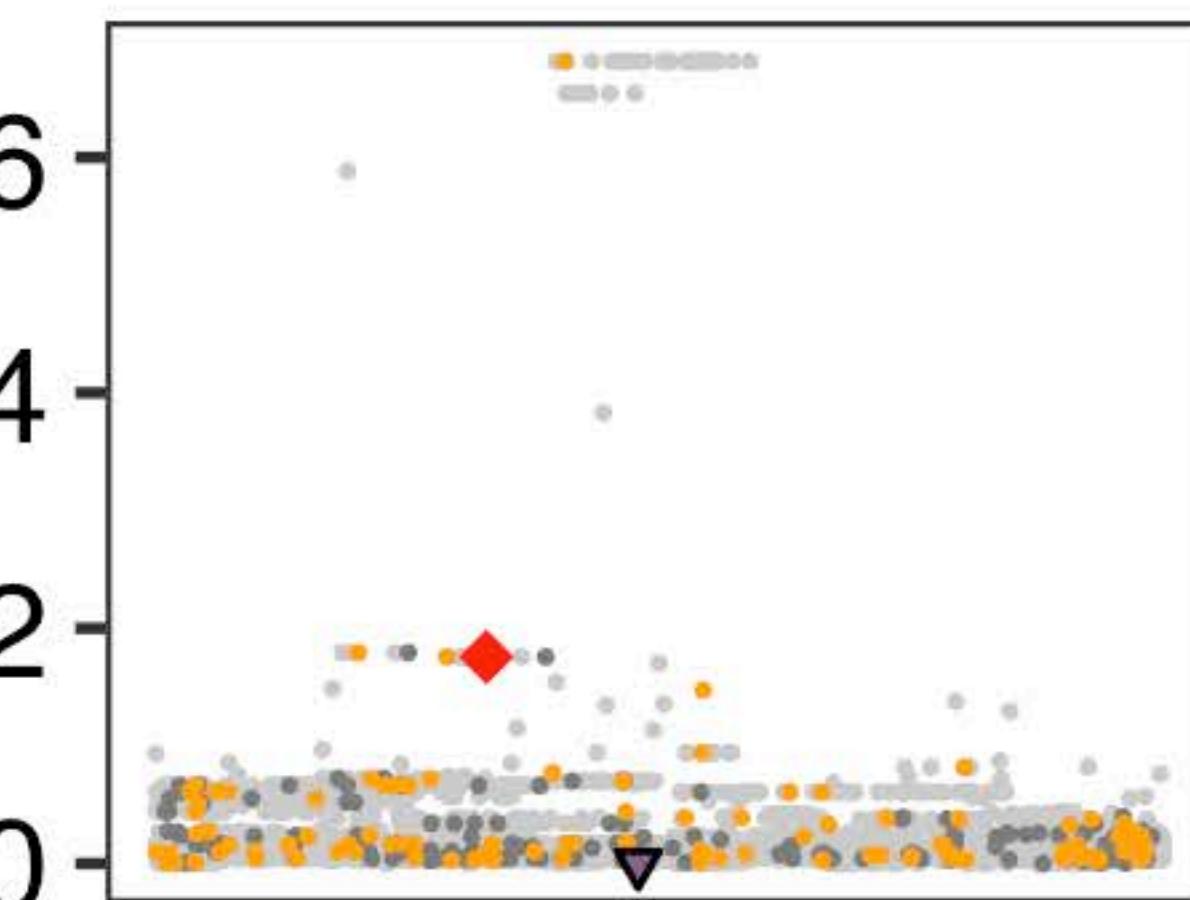
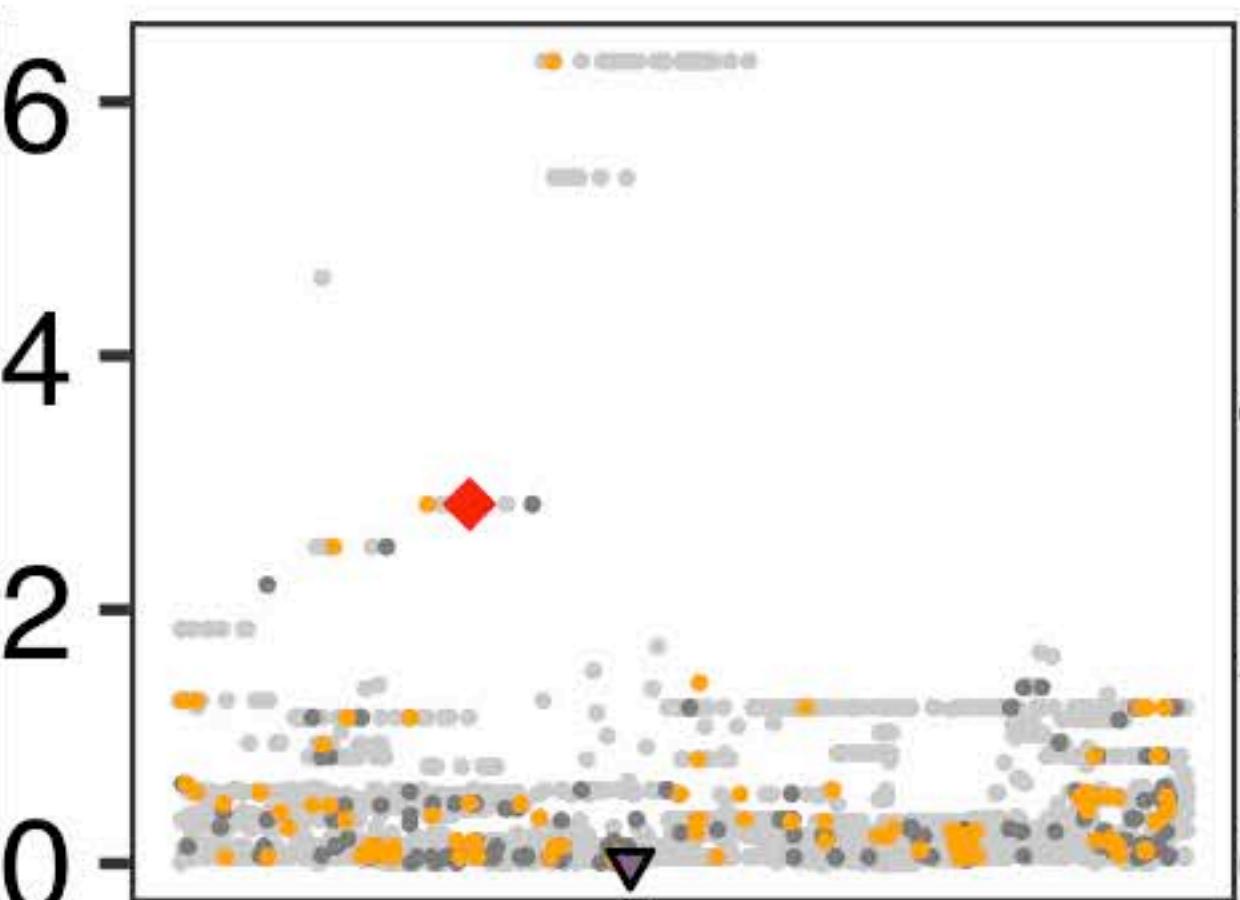
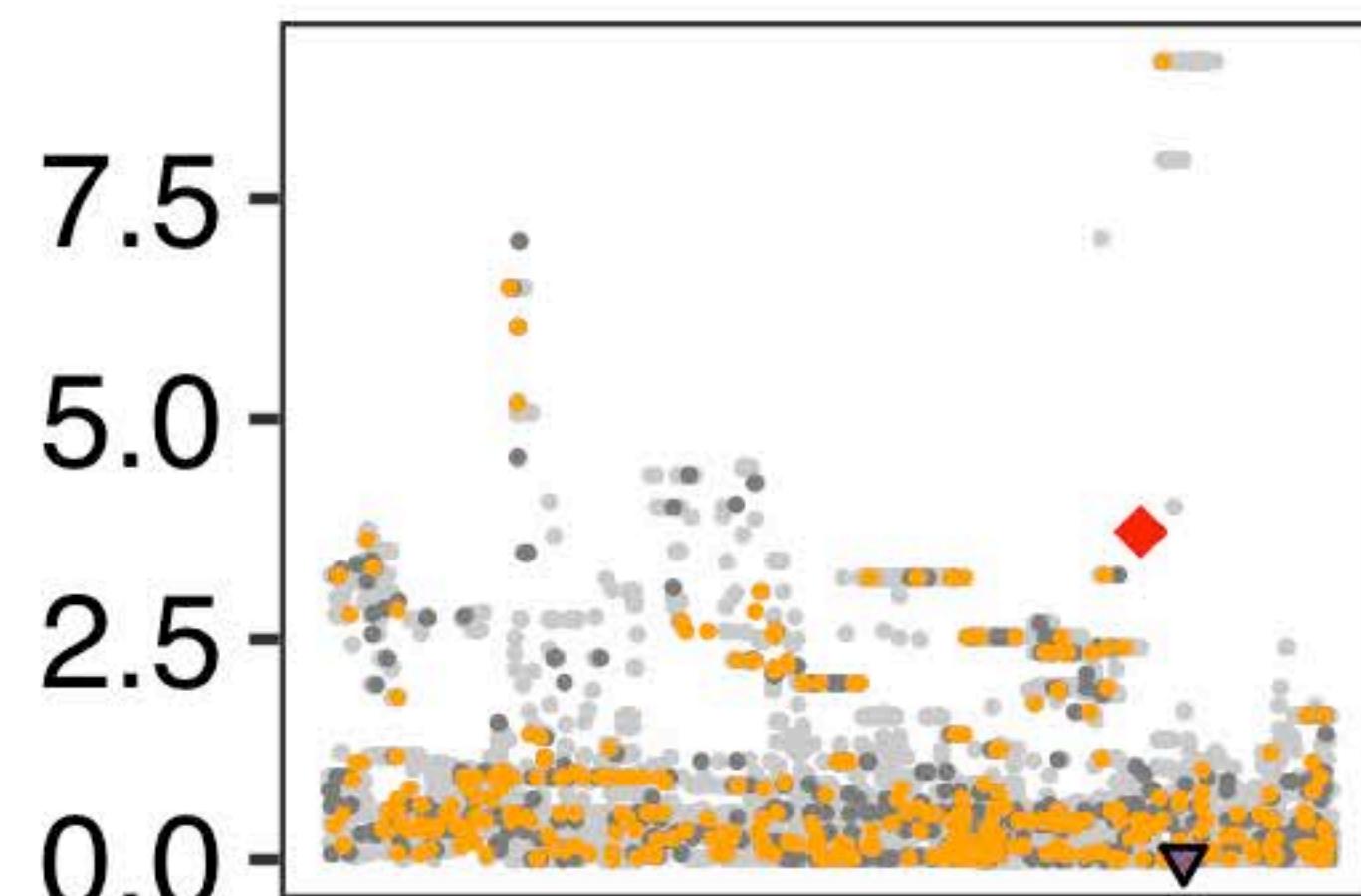
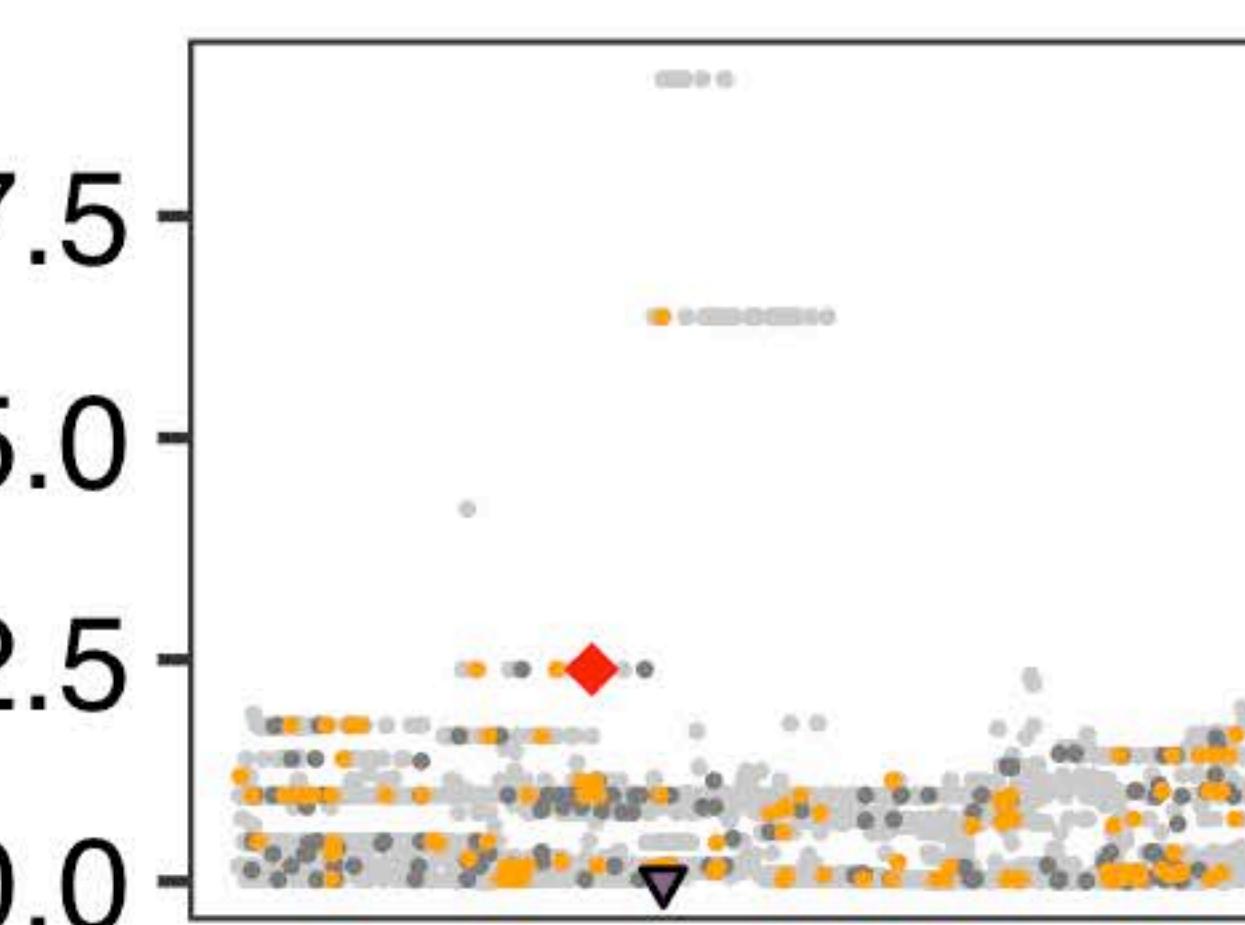
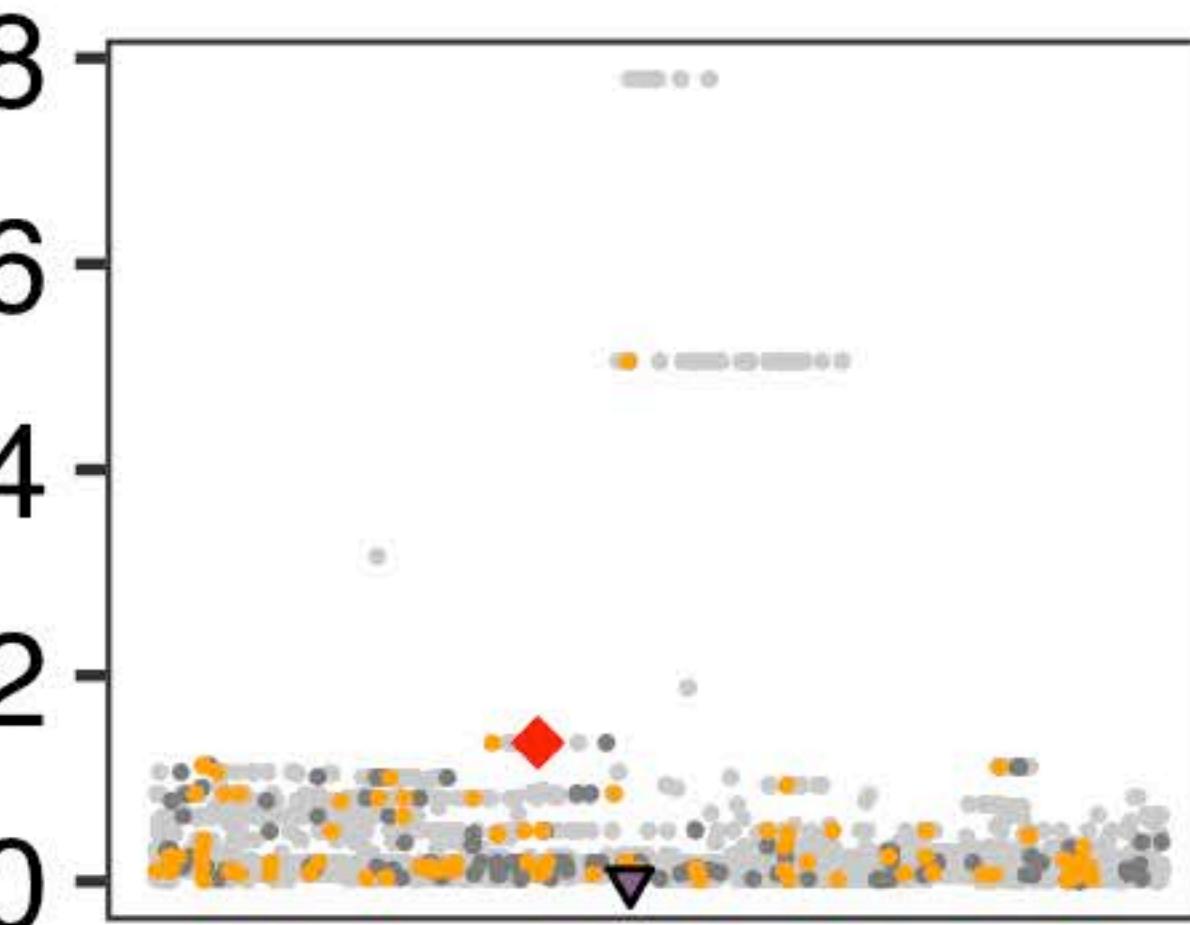
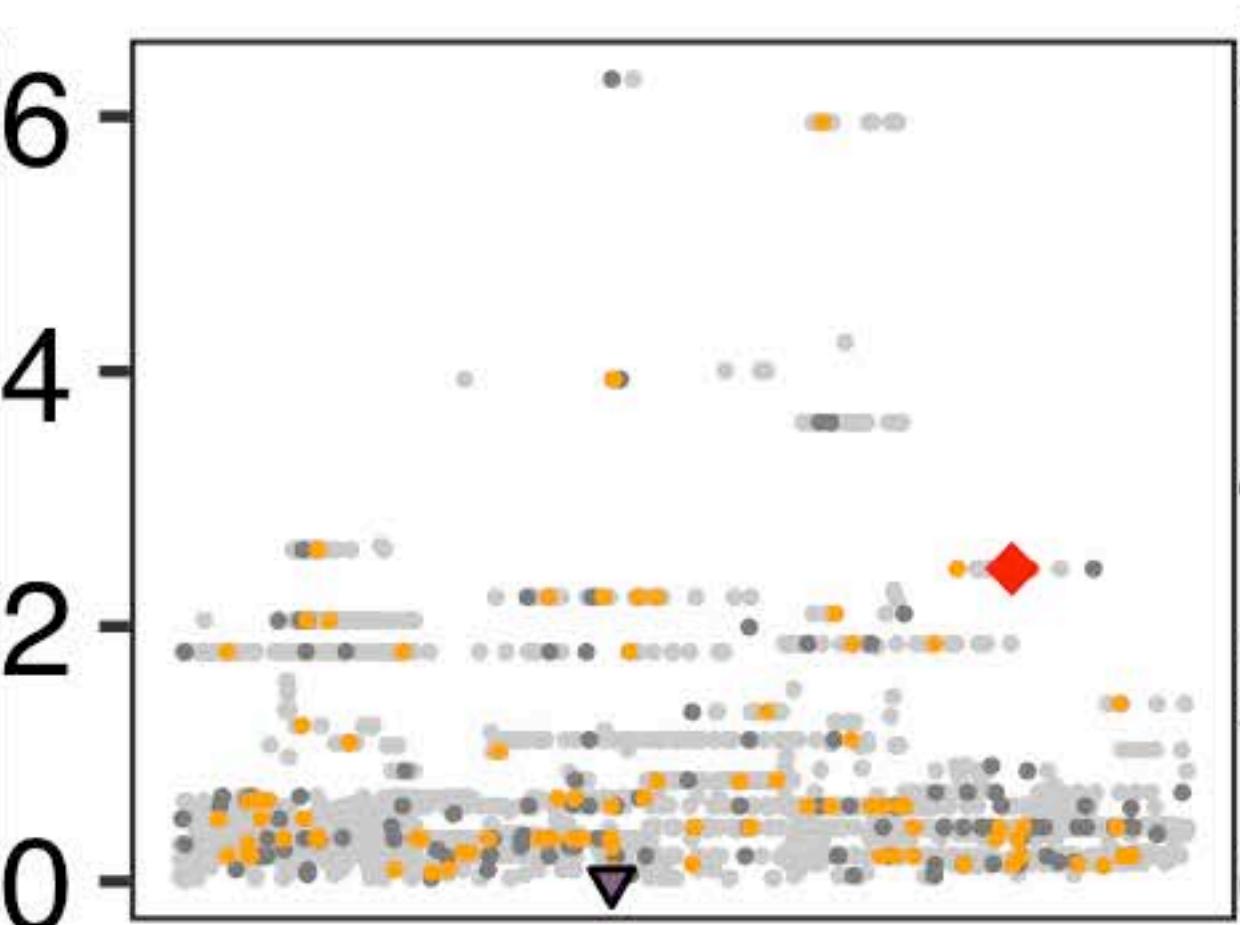
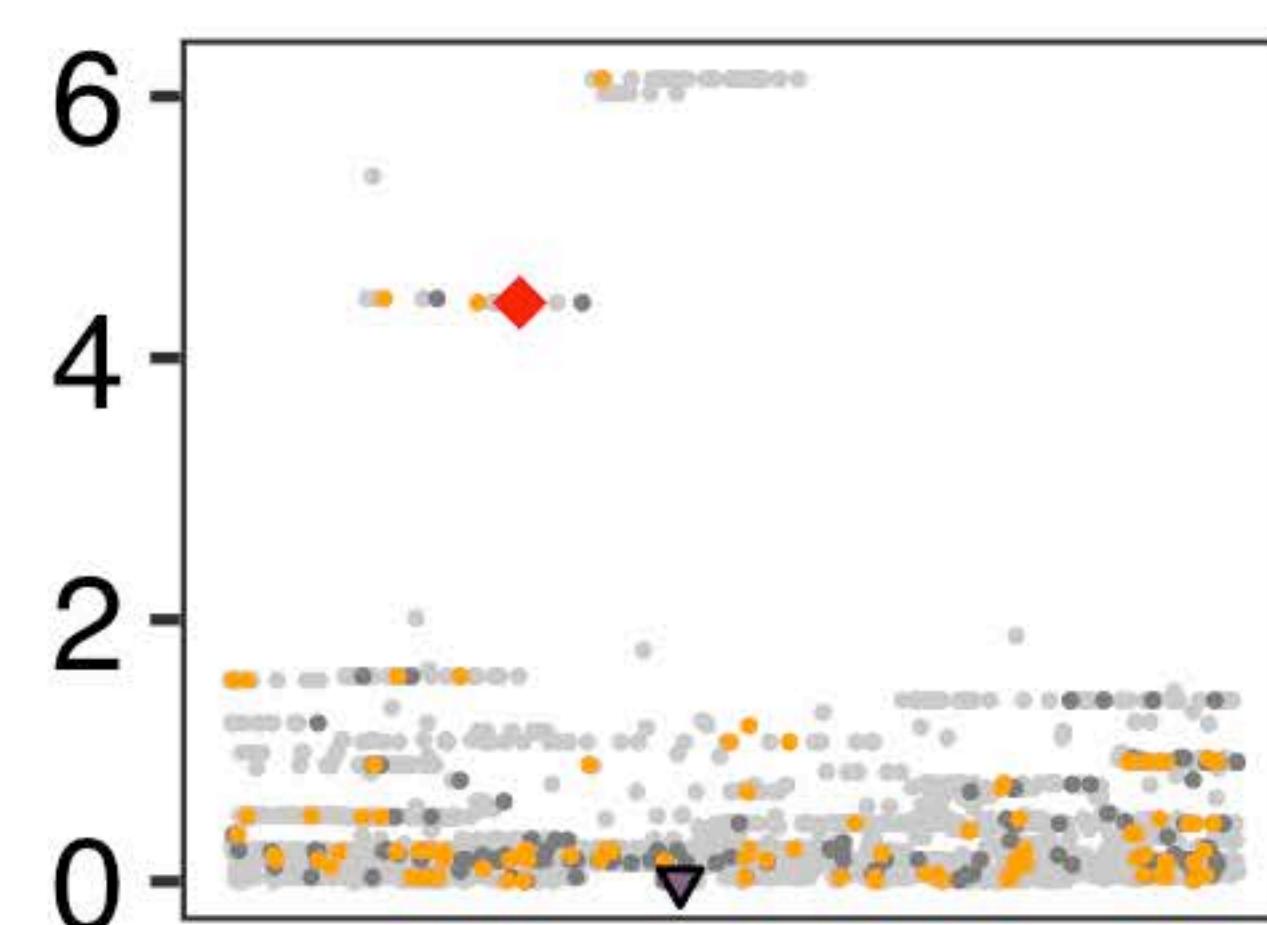
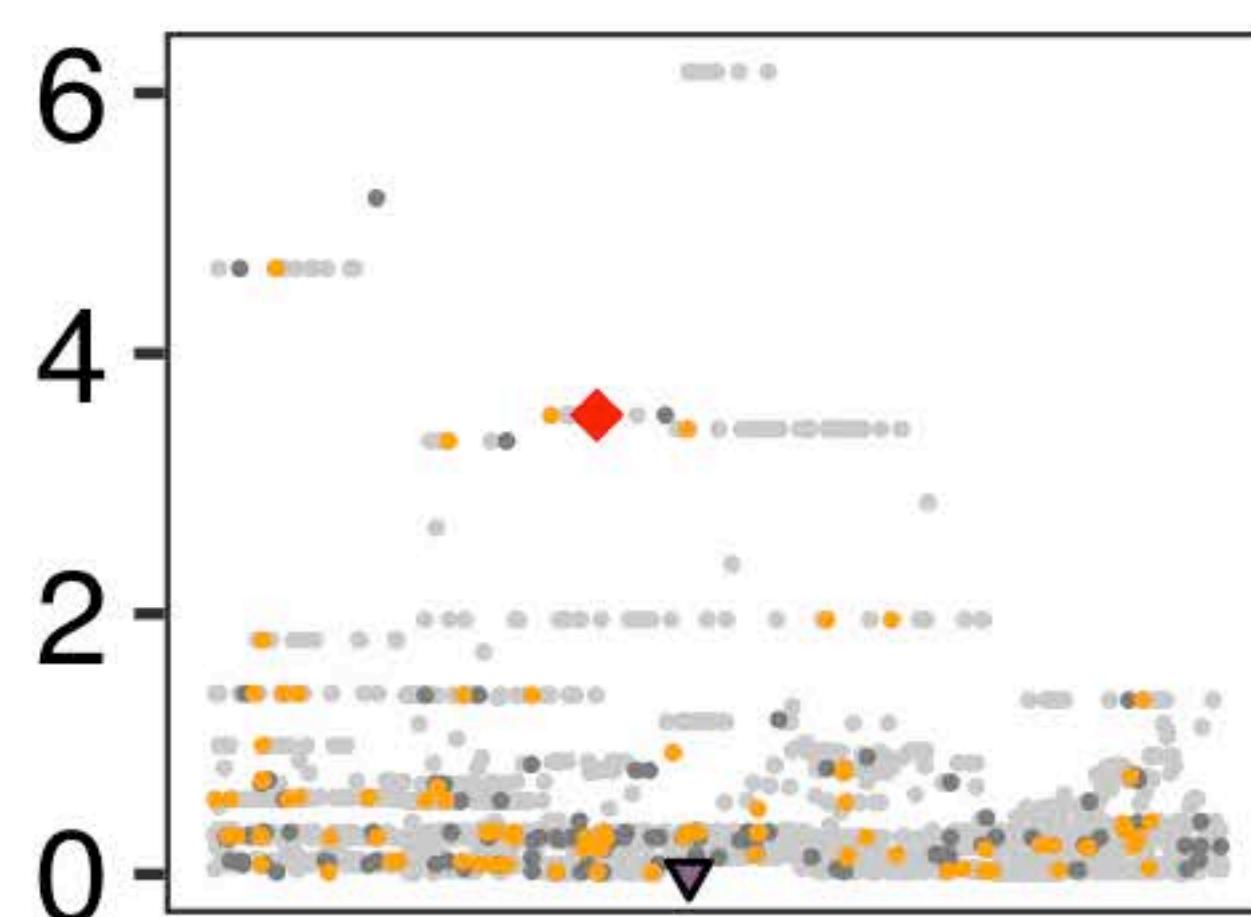


K06C4.4.1



Candidate genes *T10D4.6*

Chromosome II: 19 cM

*C25H3.14.1**K08H10.1a.1**T05H4.8**W04H10.4a.1**Y116F11B.6.1**Y38C9B.1.1**Y48G8AL.11a.2**Y49F6C.1* $-\log_{10}(p)$ *Y56A3A.14.1*

Genomic position (Mb)

Candidate genes

◆ *aptf-4*

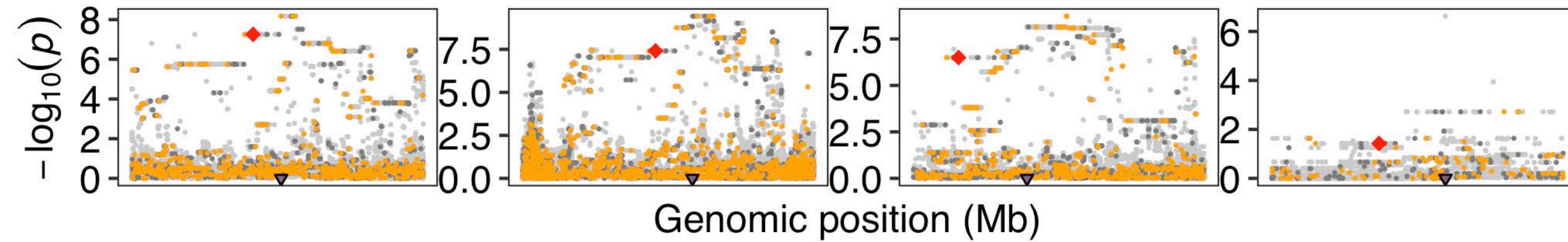
Chromosome II: 19 cM

C28H8.4.2

E04D5.1a.2

F18A1.3b.1

Y54F10AM.2a.1



Candidate genes ◆ *nfi-1*

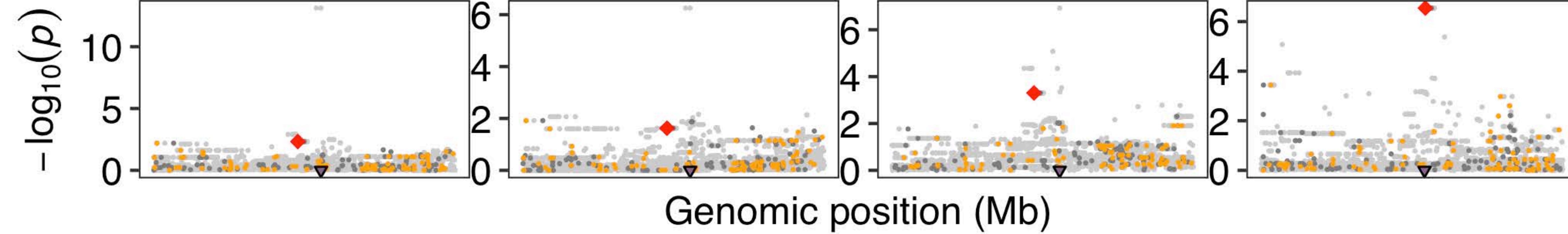
Chromosome II: 19.5 cM

Y110A2AL.12a.1

Y110A2AL.12a.2

Y53G8AR.2b.2

Y66D12A.16c.1



Candidate genes ◆ *jun-1*

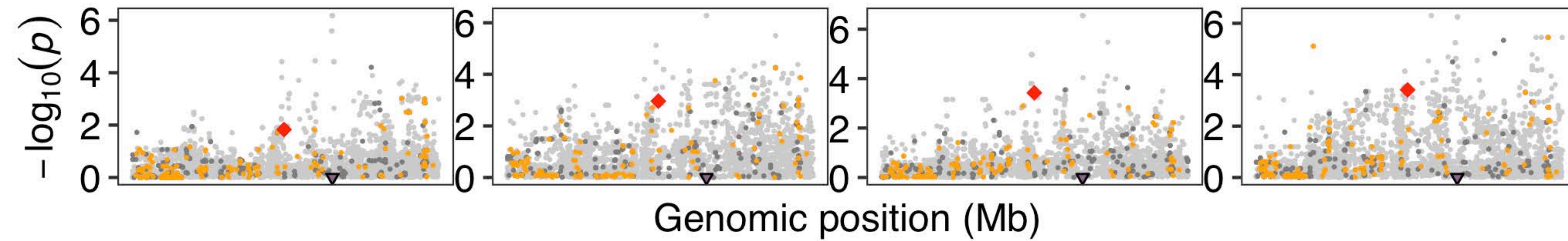
Chromosome III: 16.5 cM

C06H2.5a.1

E02C12.8c.2

F54E2.3f.1

Y47D3B.5b.1



Candidate genes \blacklozenge *ceh-44*

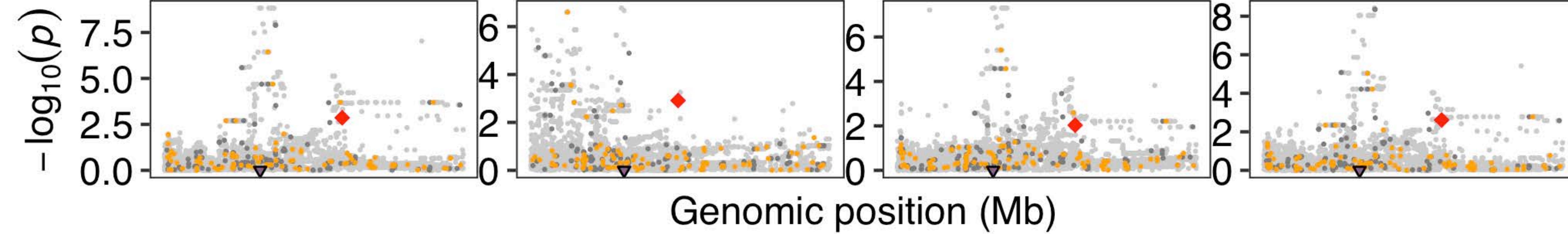
Chromosome III: 20.5 cM

C12C8.1.1

C12D5.7.2

T04H1.9.2

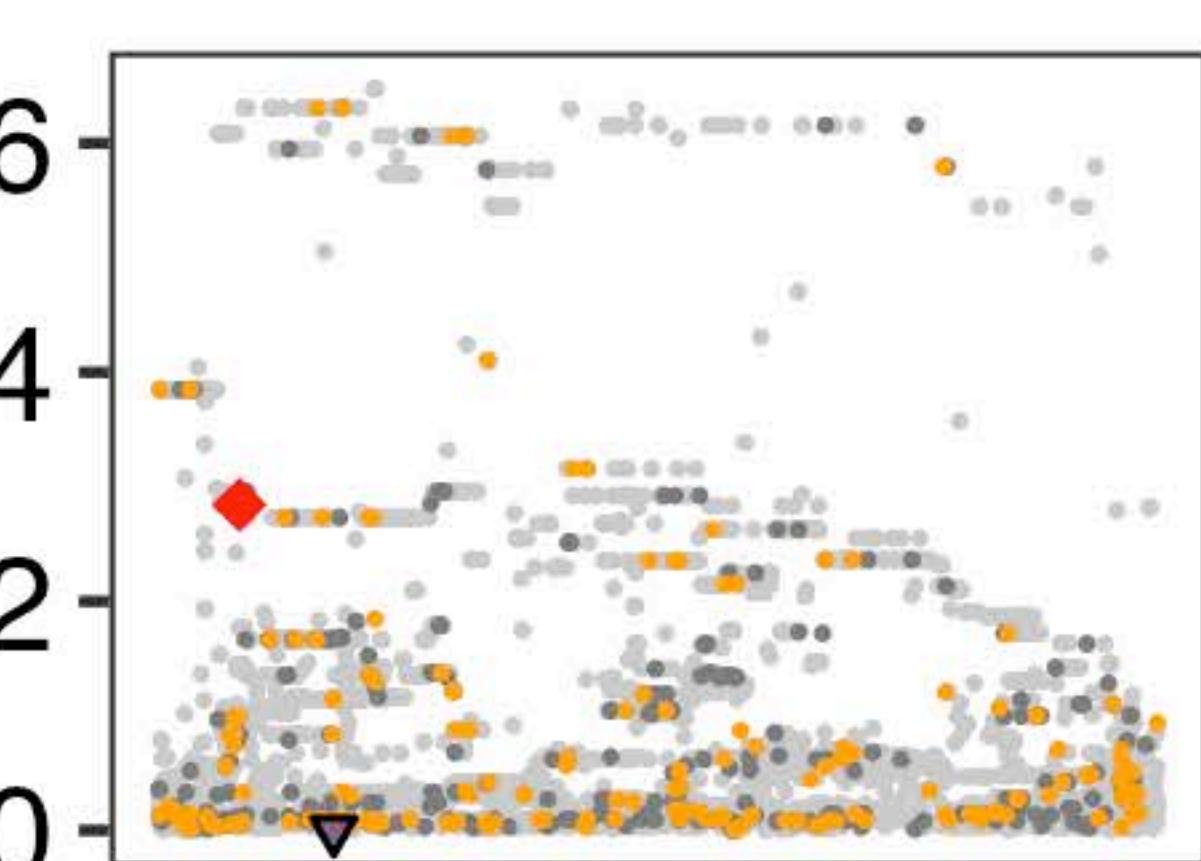
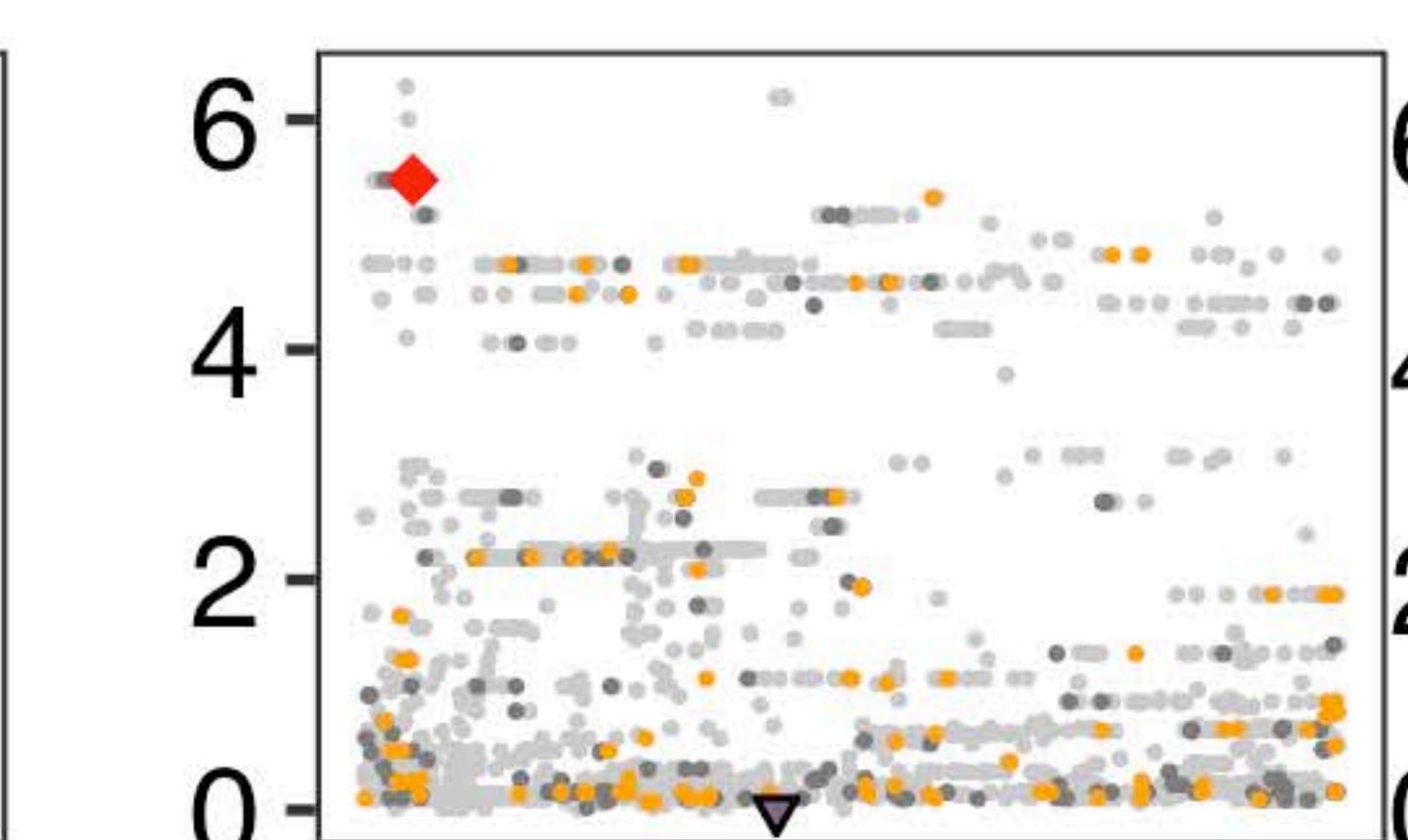
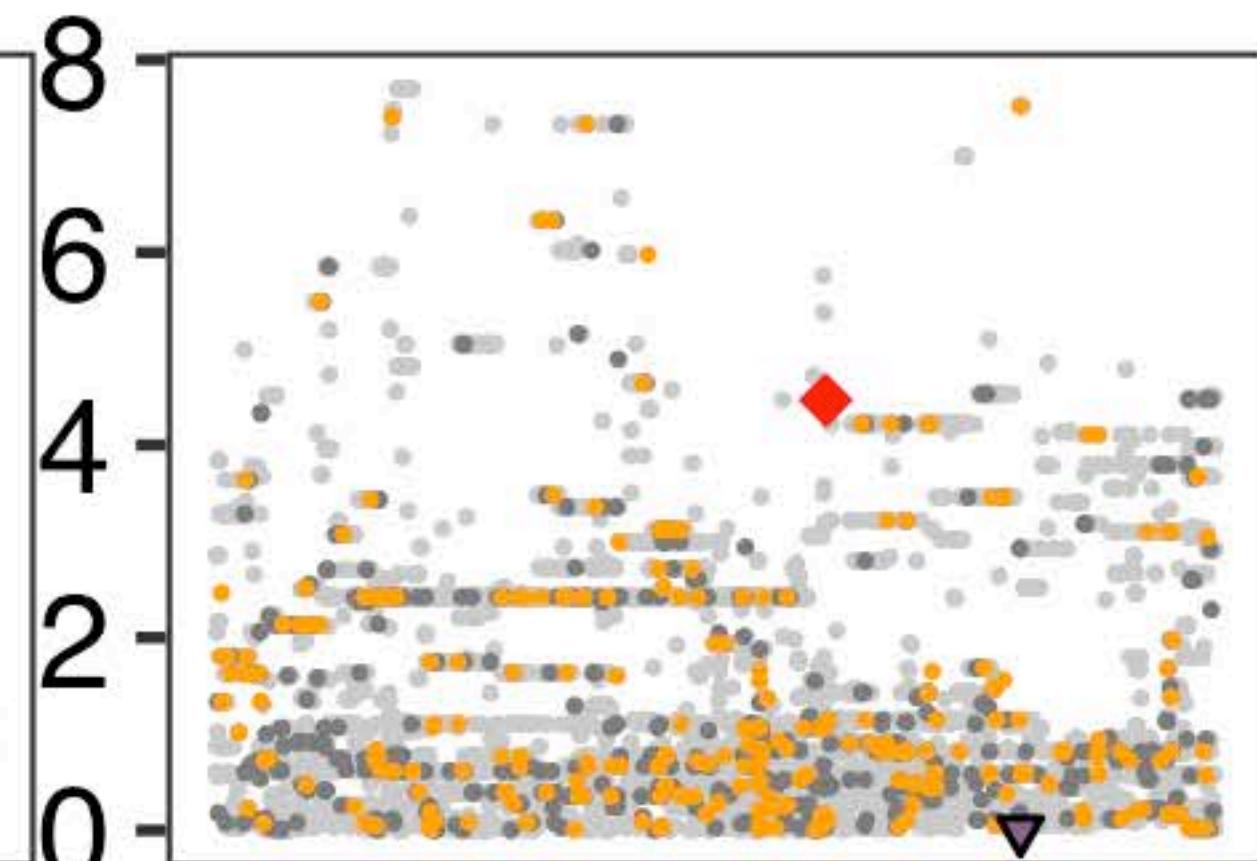
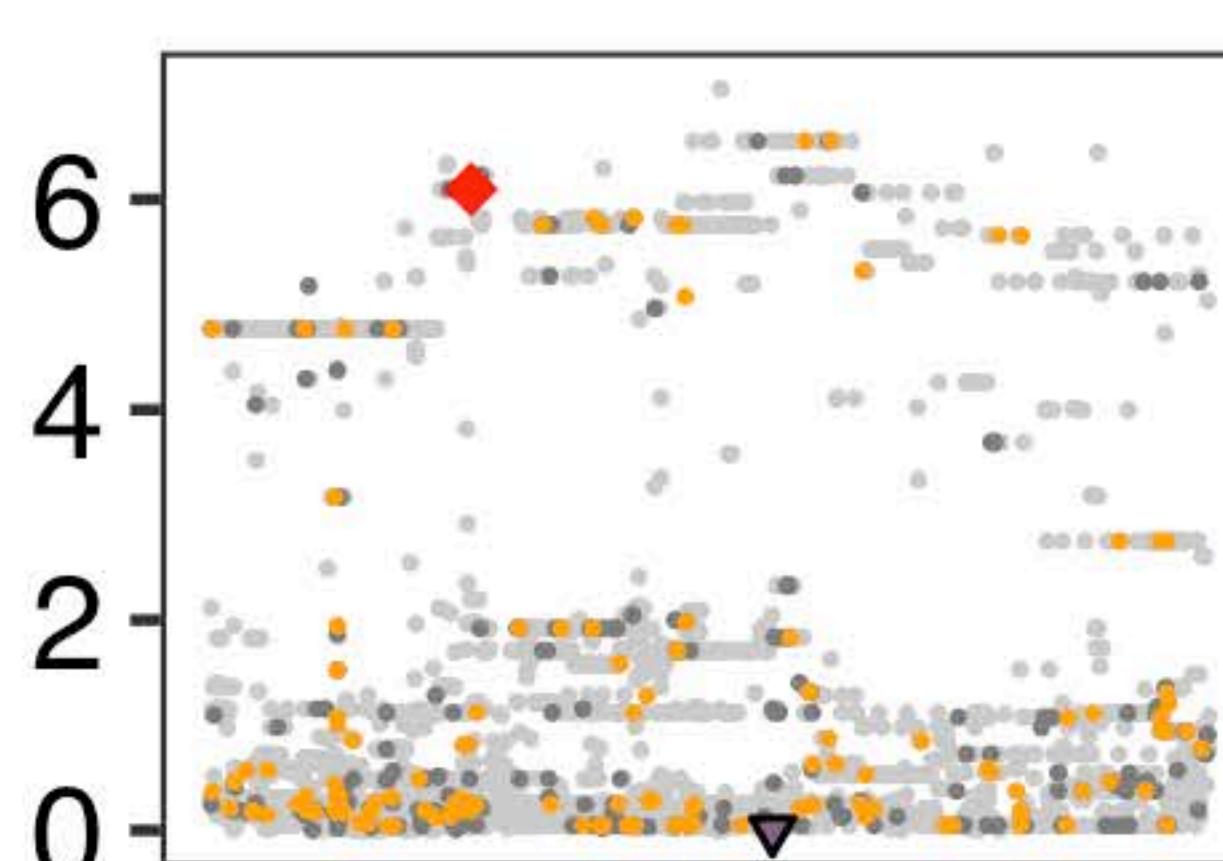
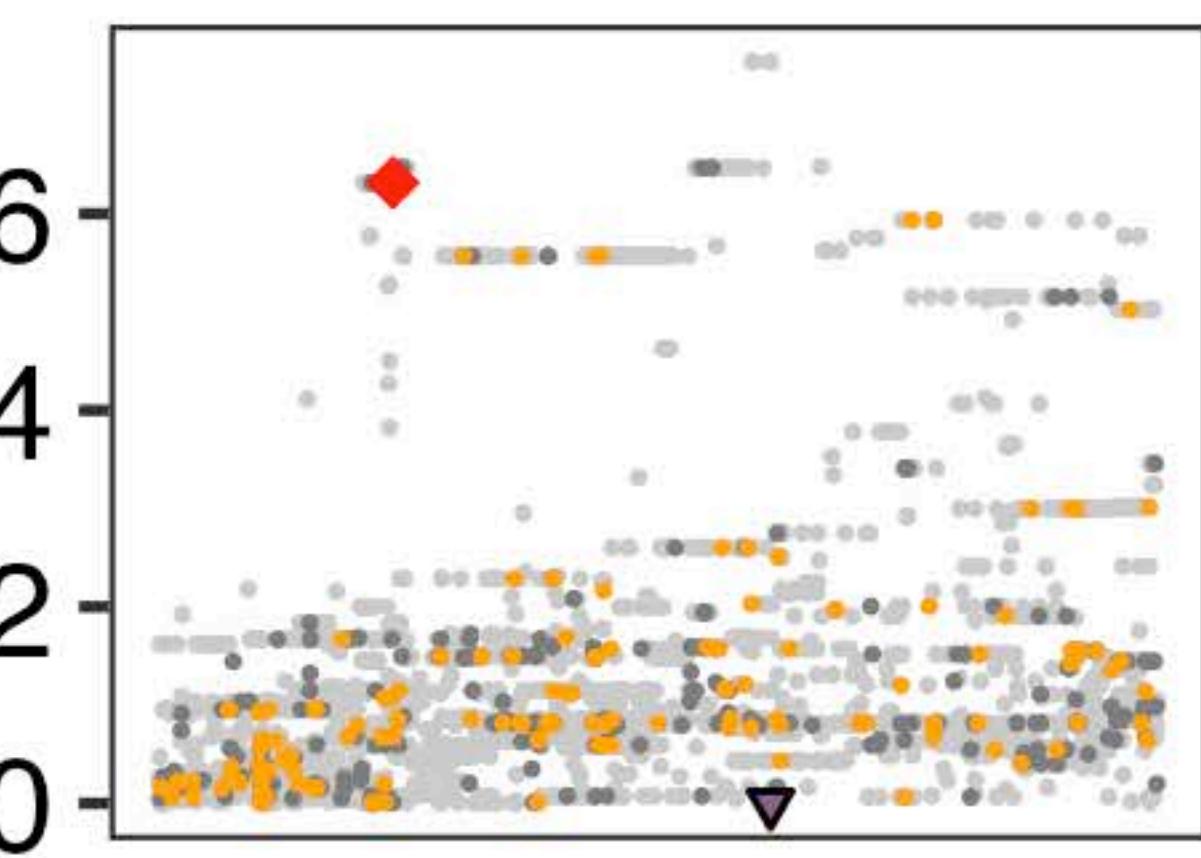
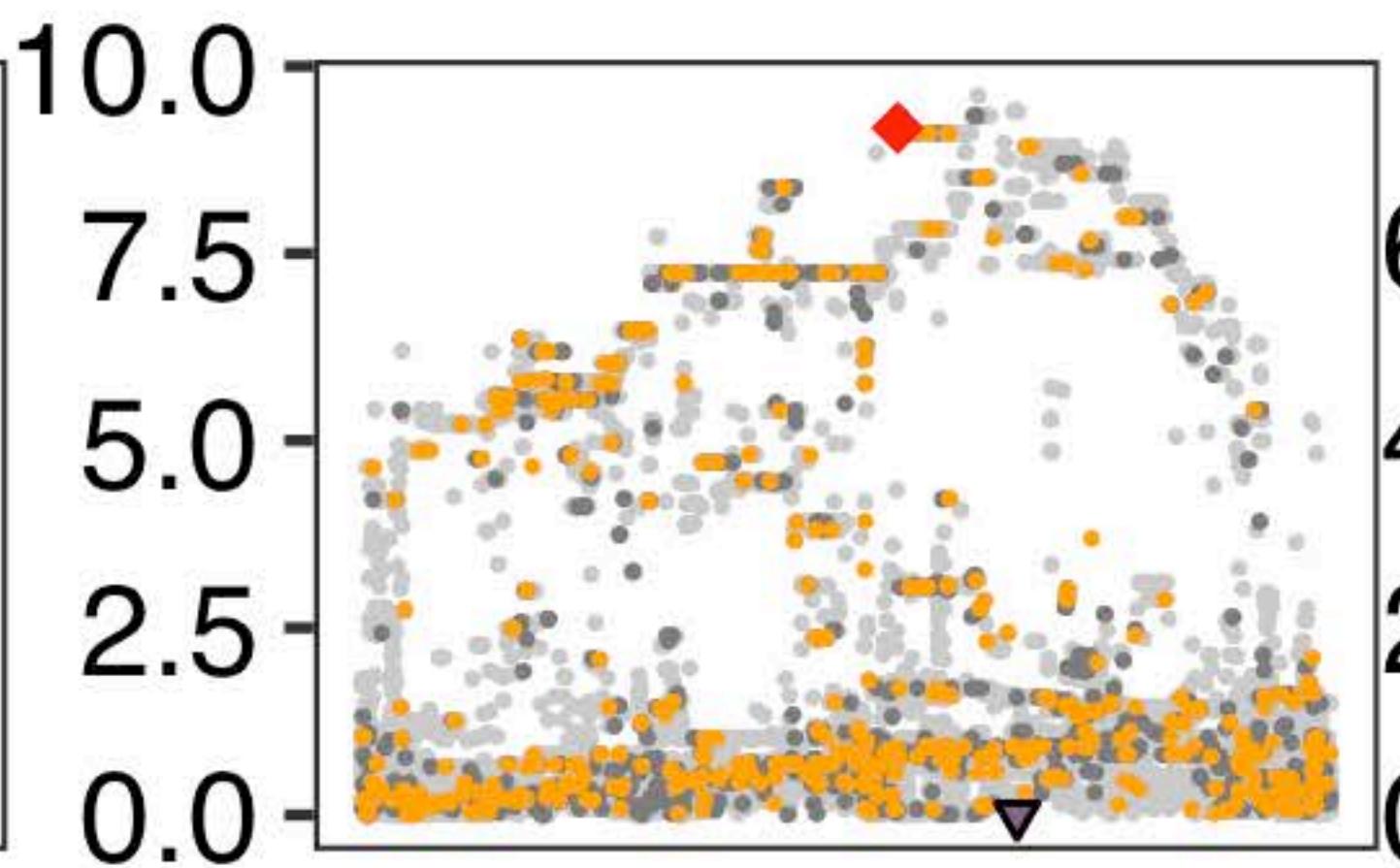
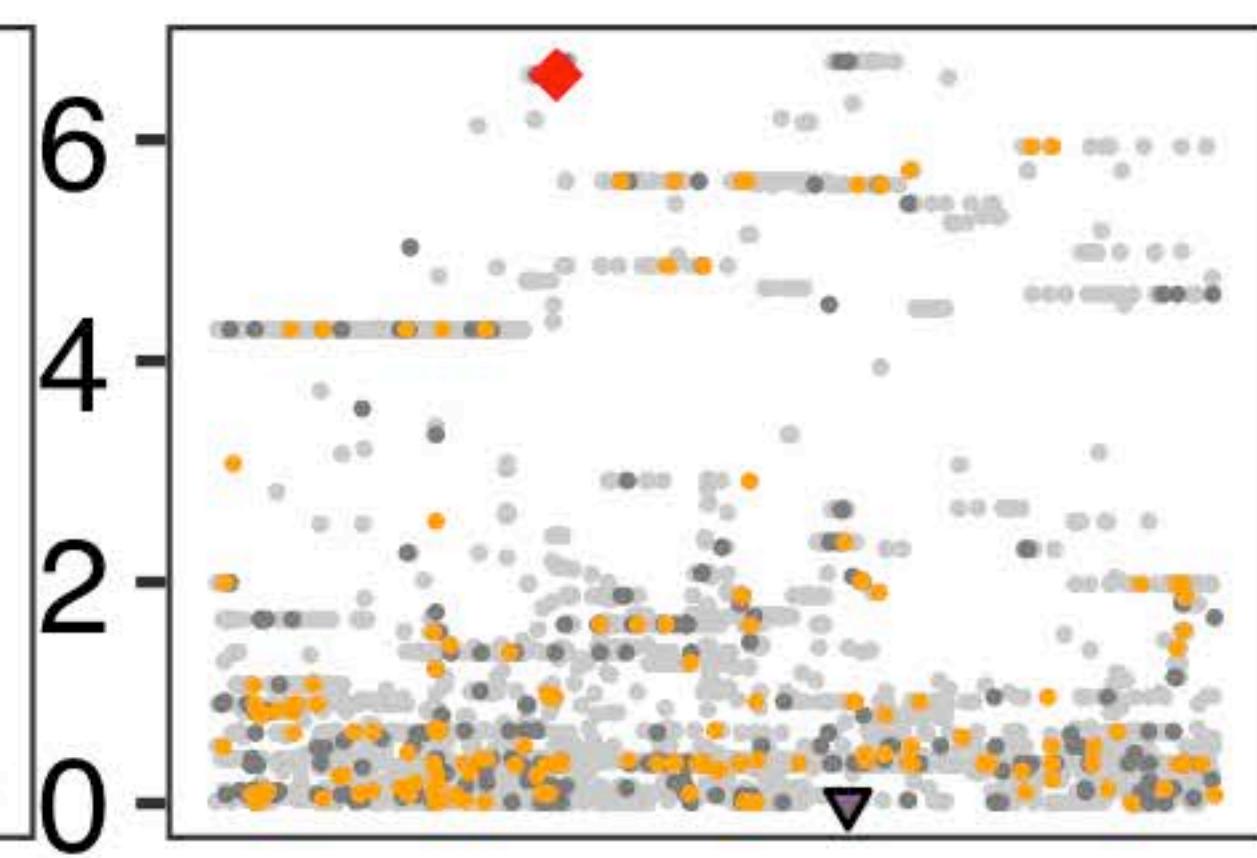
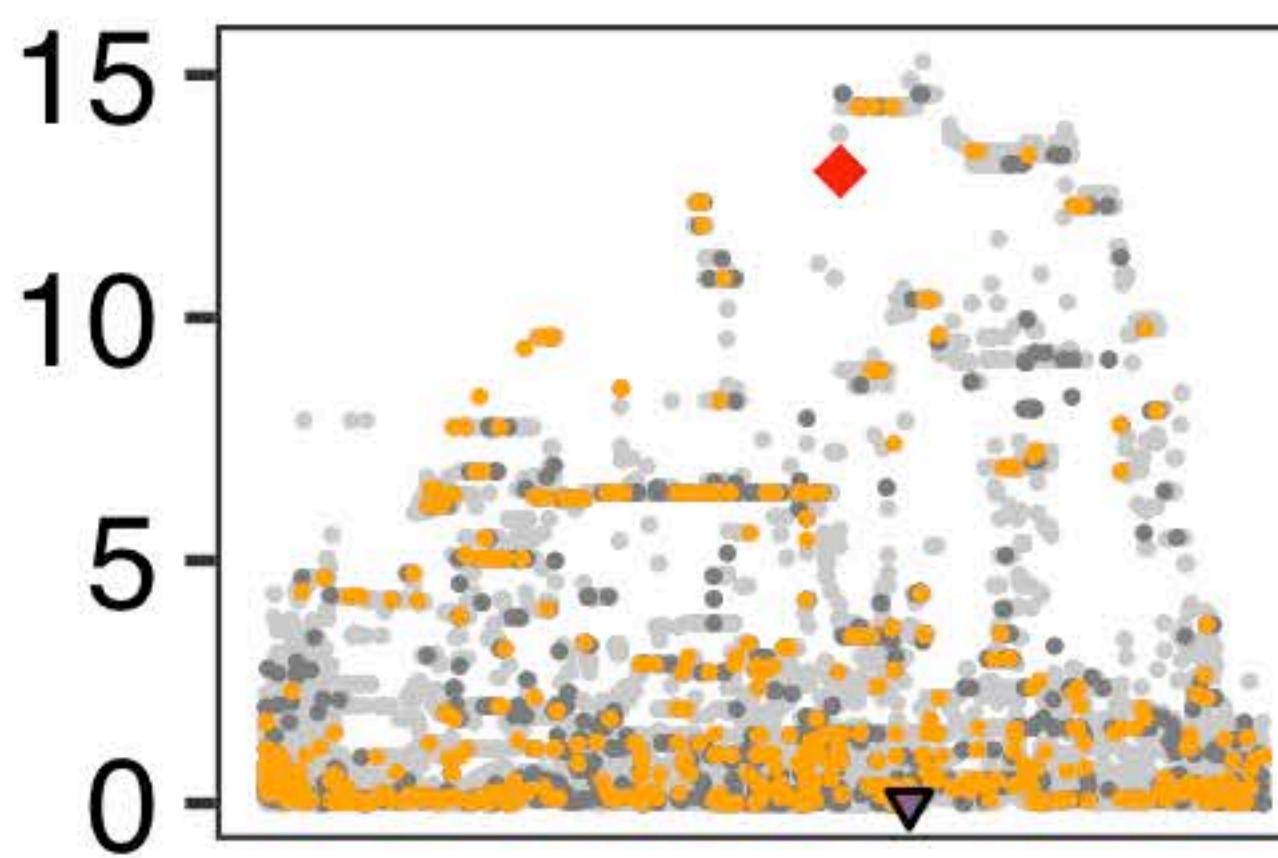
Y46H3A.2.1



Candidate genes

◆ *wdr-5.1*

Chromosome III: 27 cM

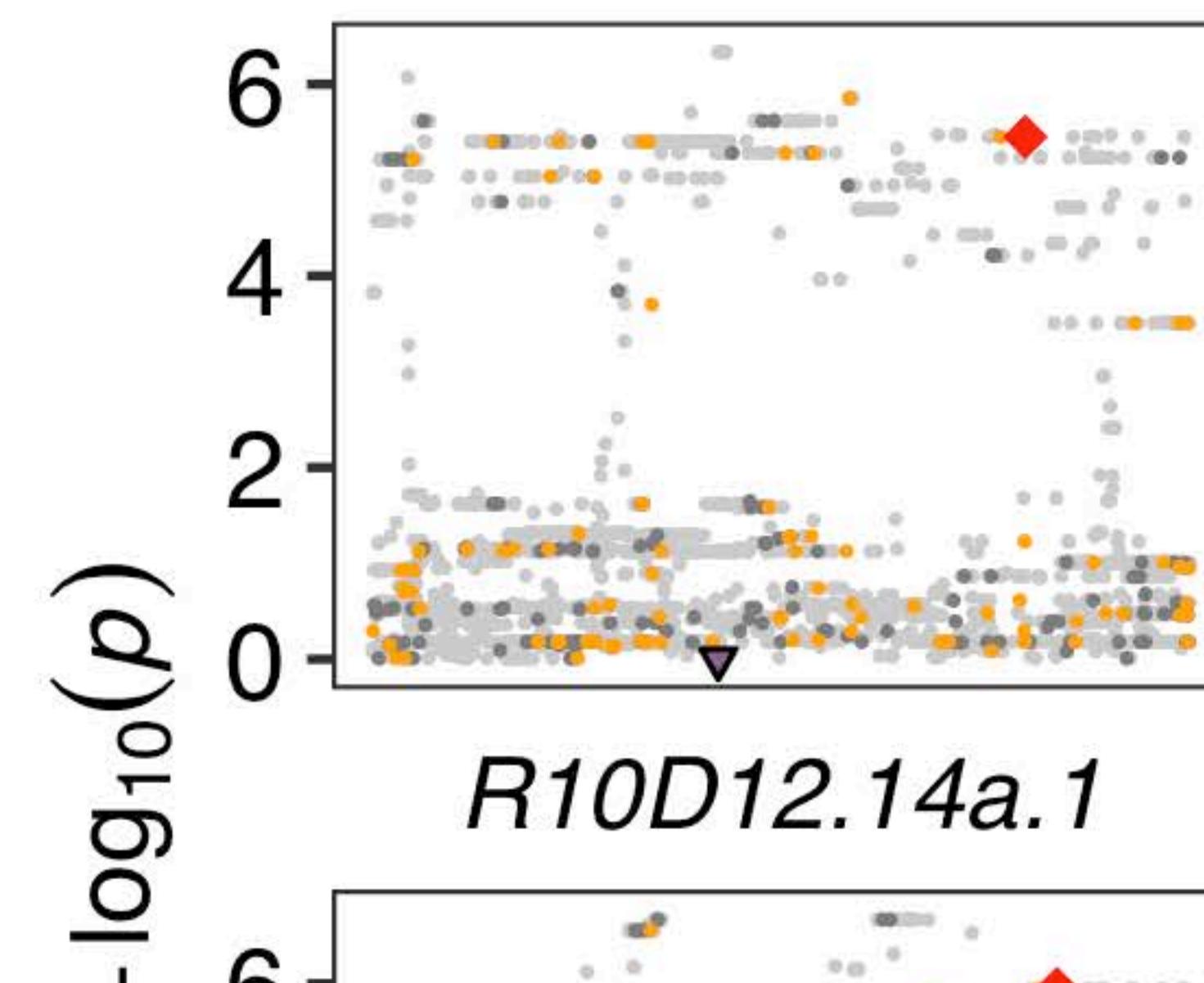
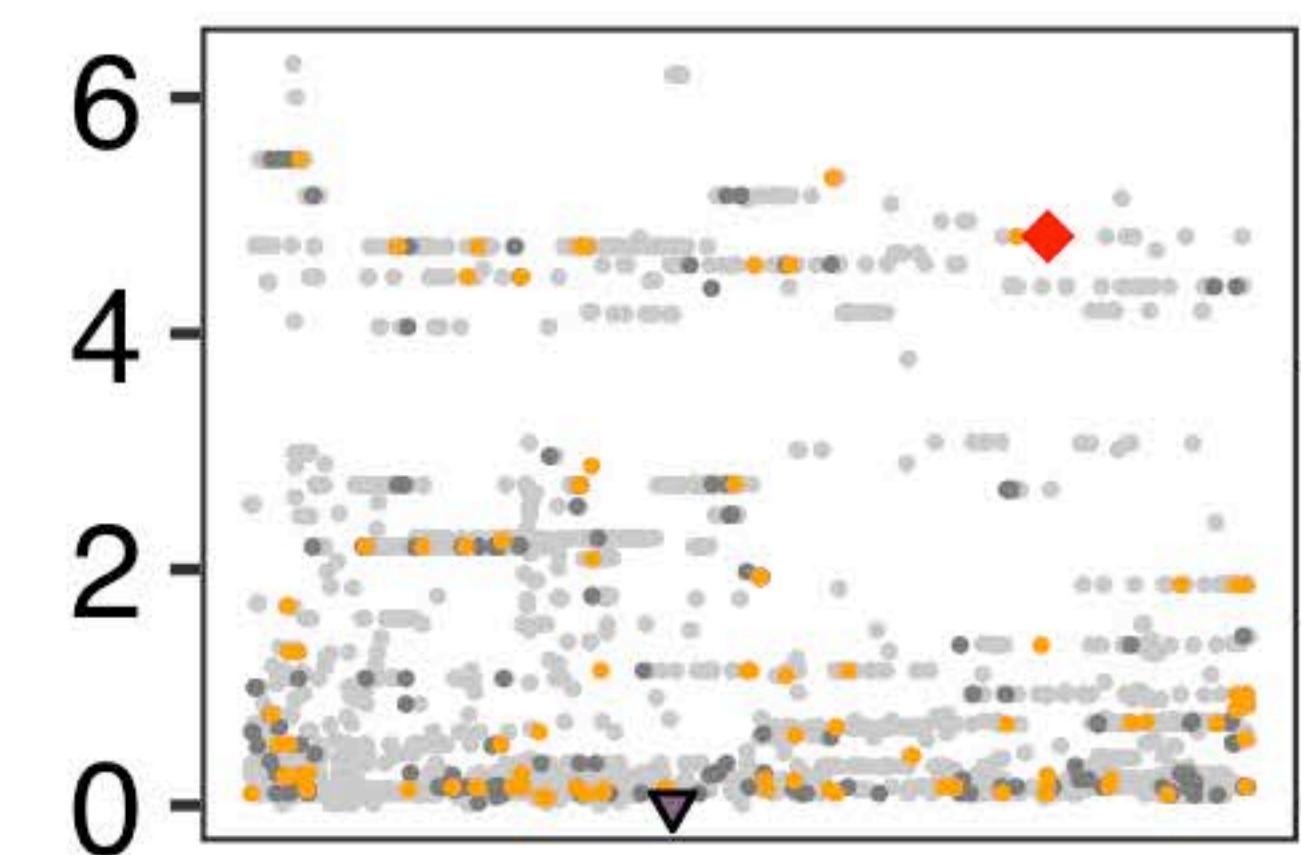
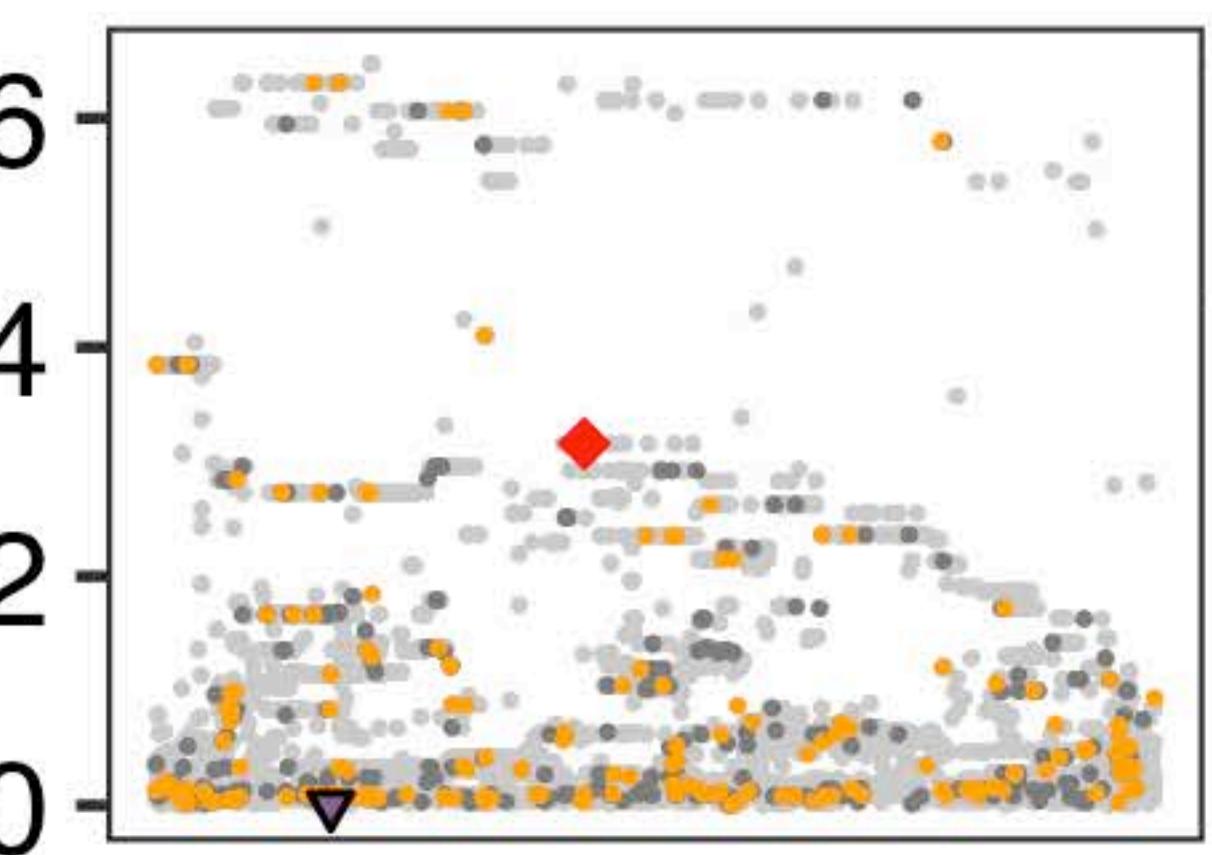
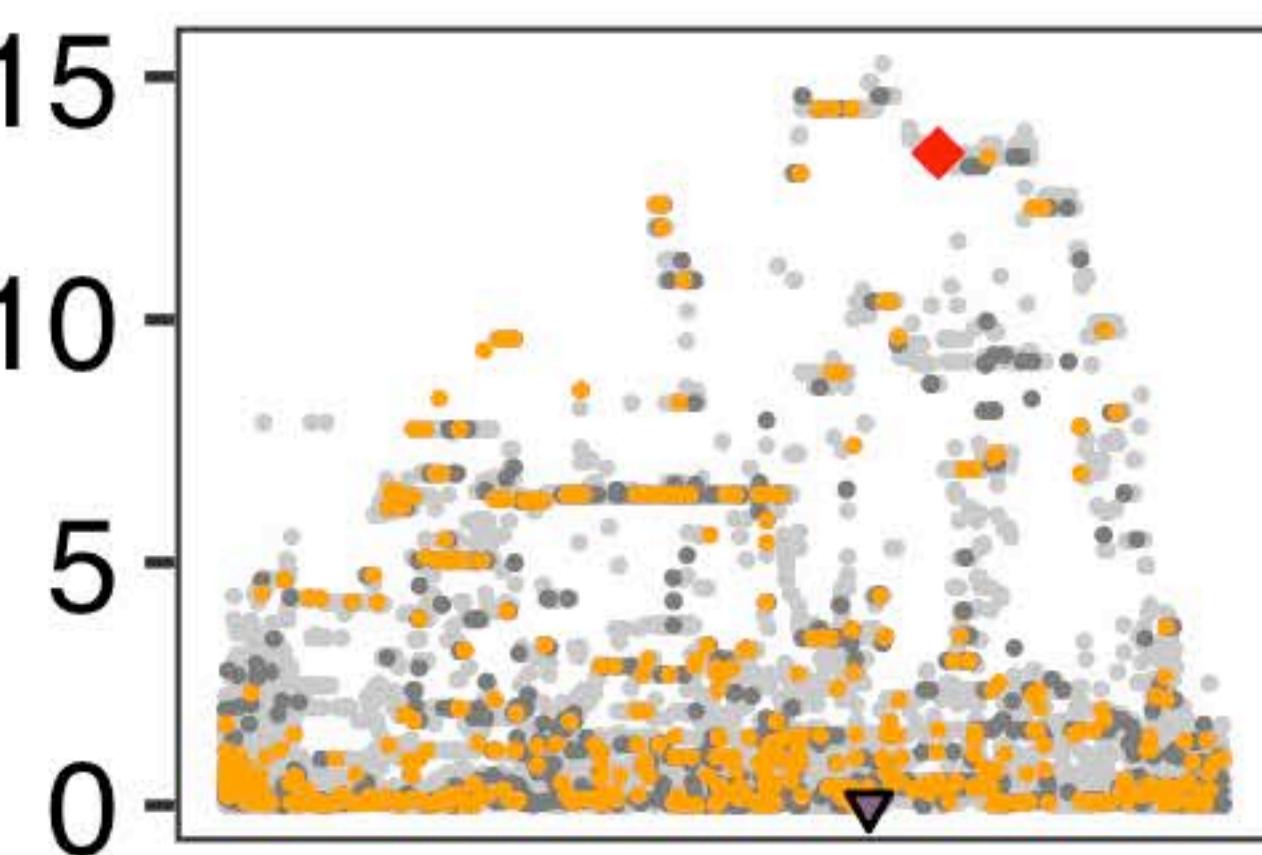
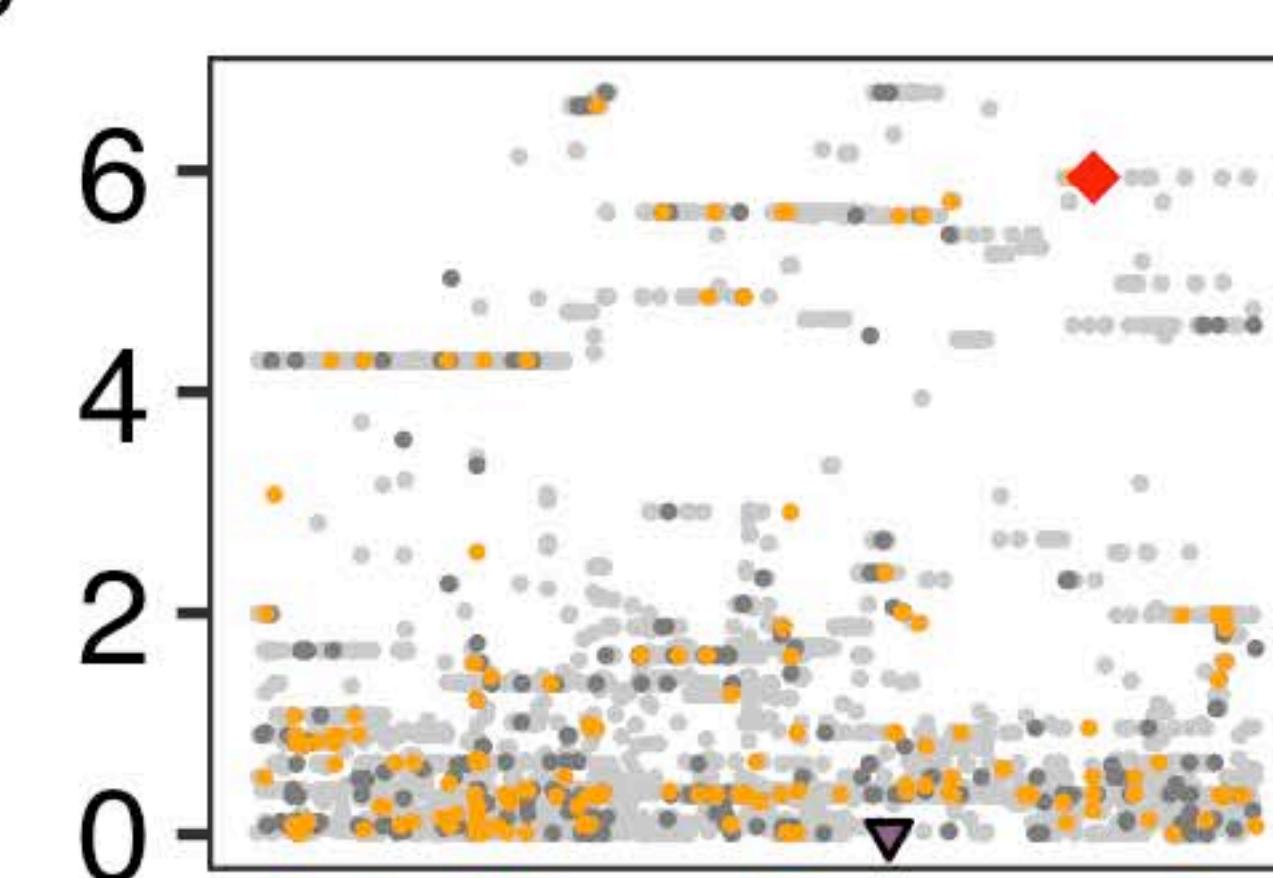
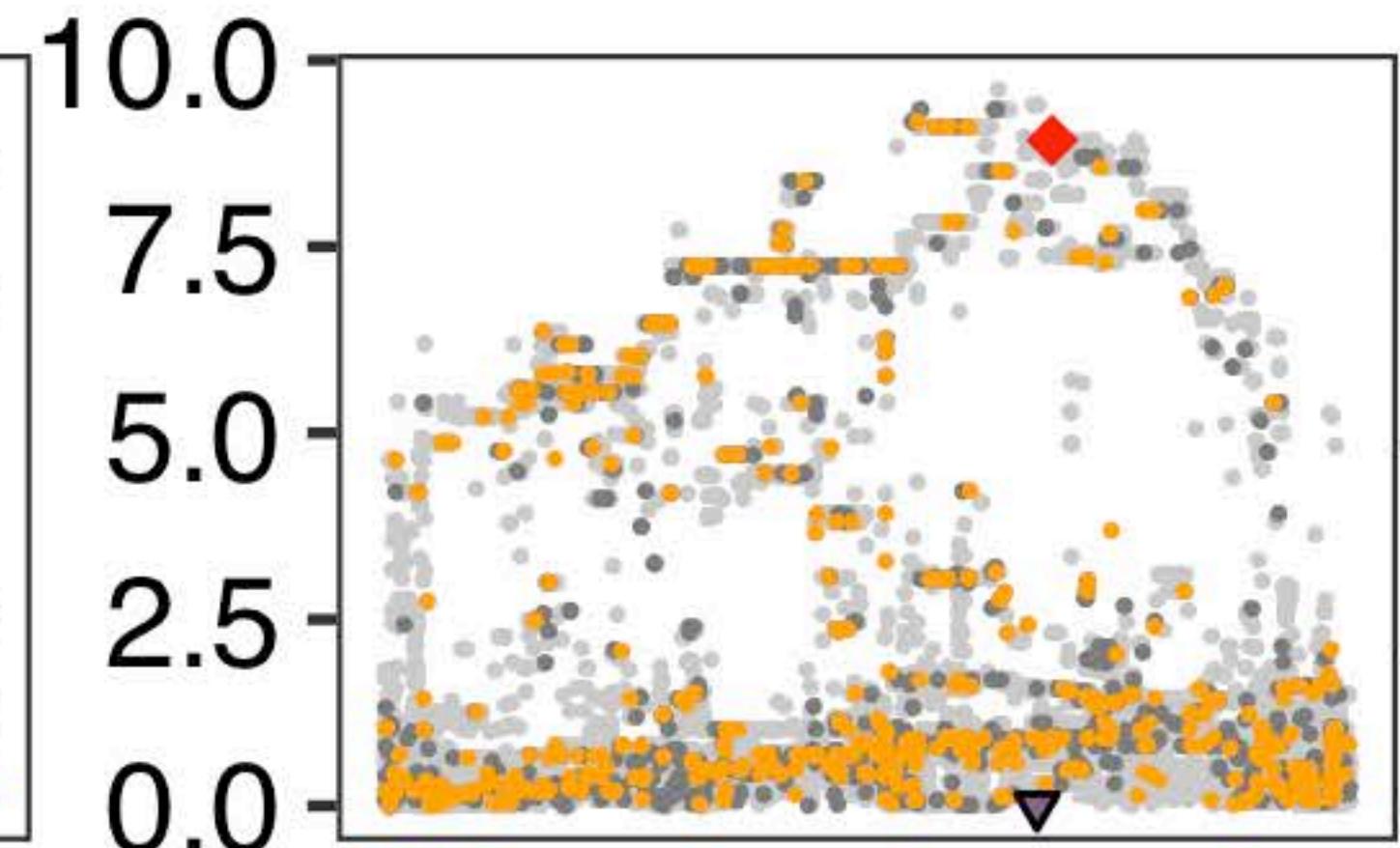
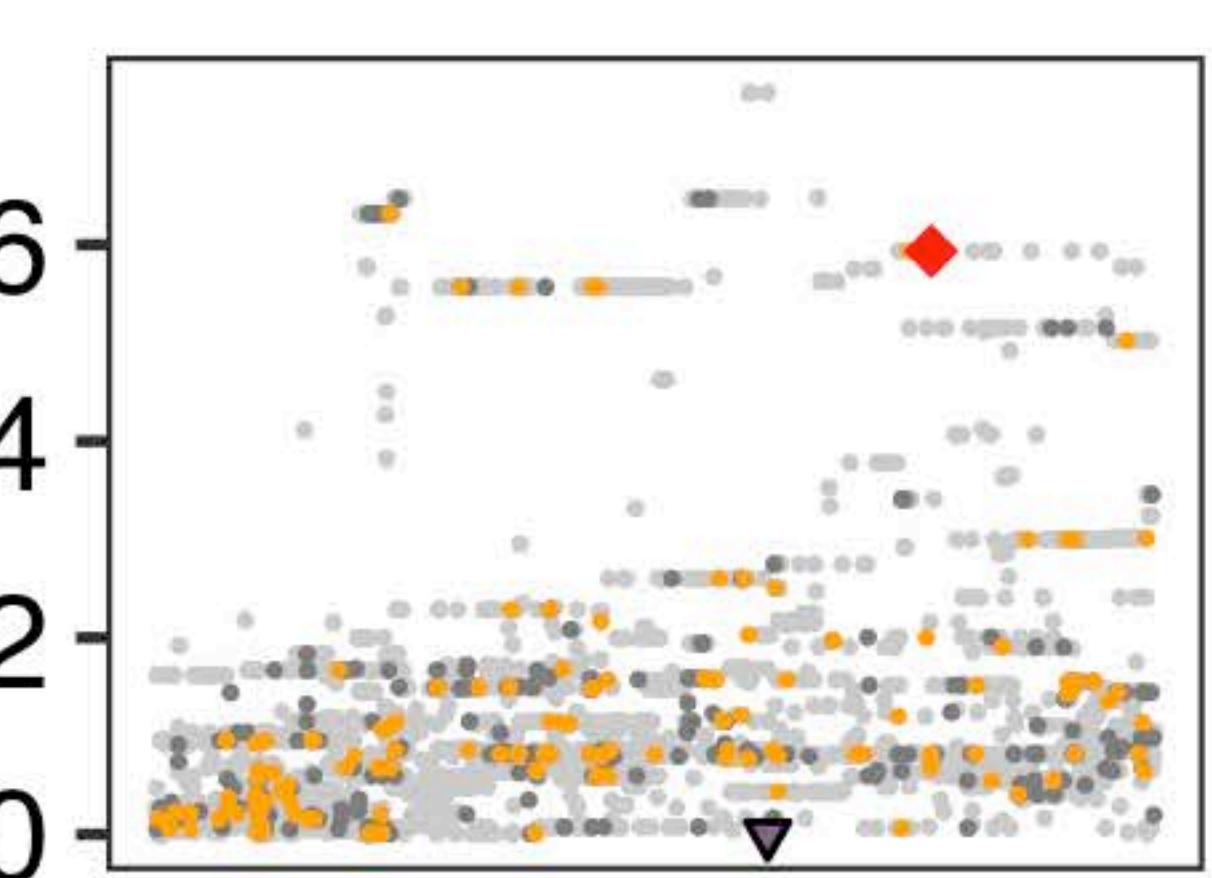
*C02B10.4.2**F01F1.7.1**F41E6.5a.1**F49D11.6.1* $-\log_{10}(p)$ *R08D7.3.2**R10D12.14a.1**T26A5.2b.1**Y39E4A.3a.2*

Genomic position (Mb)

Candidate genes

◆ *mml-1*

Chromosome III: 27 cM

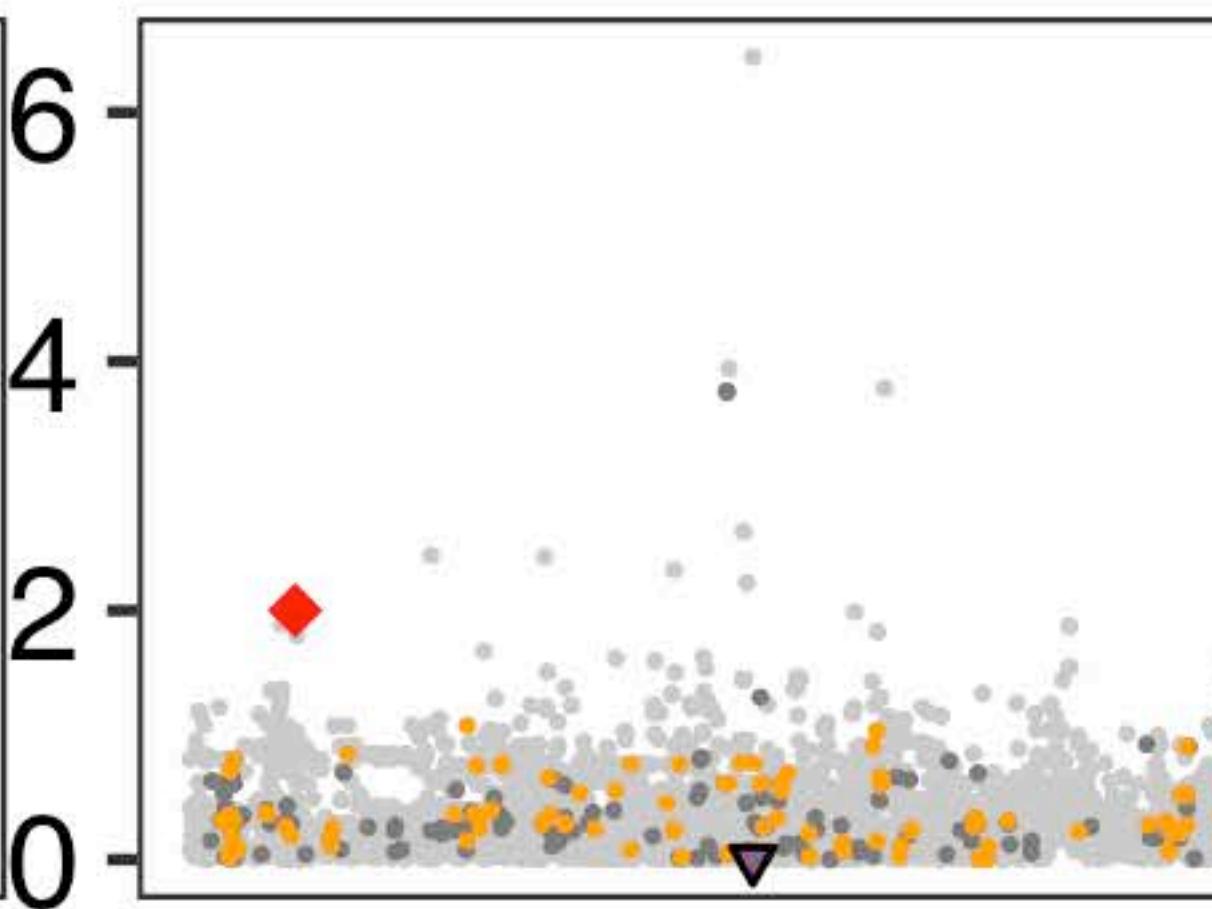
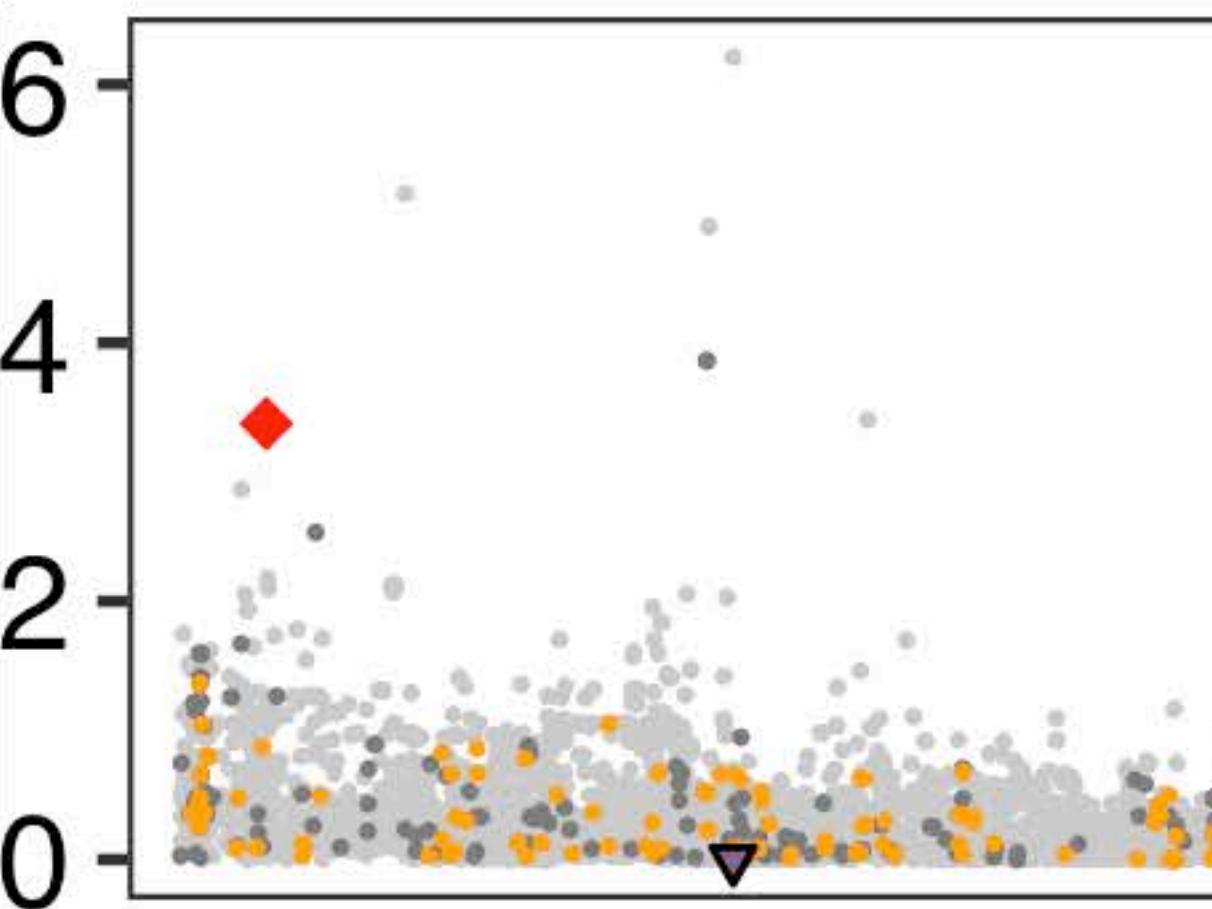
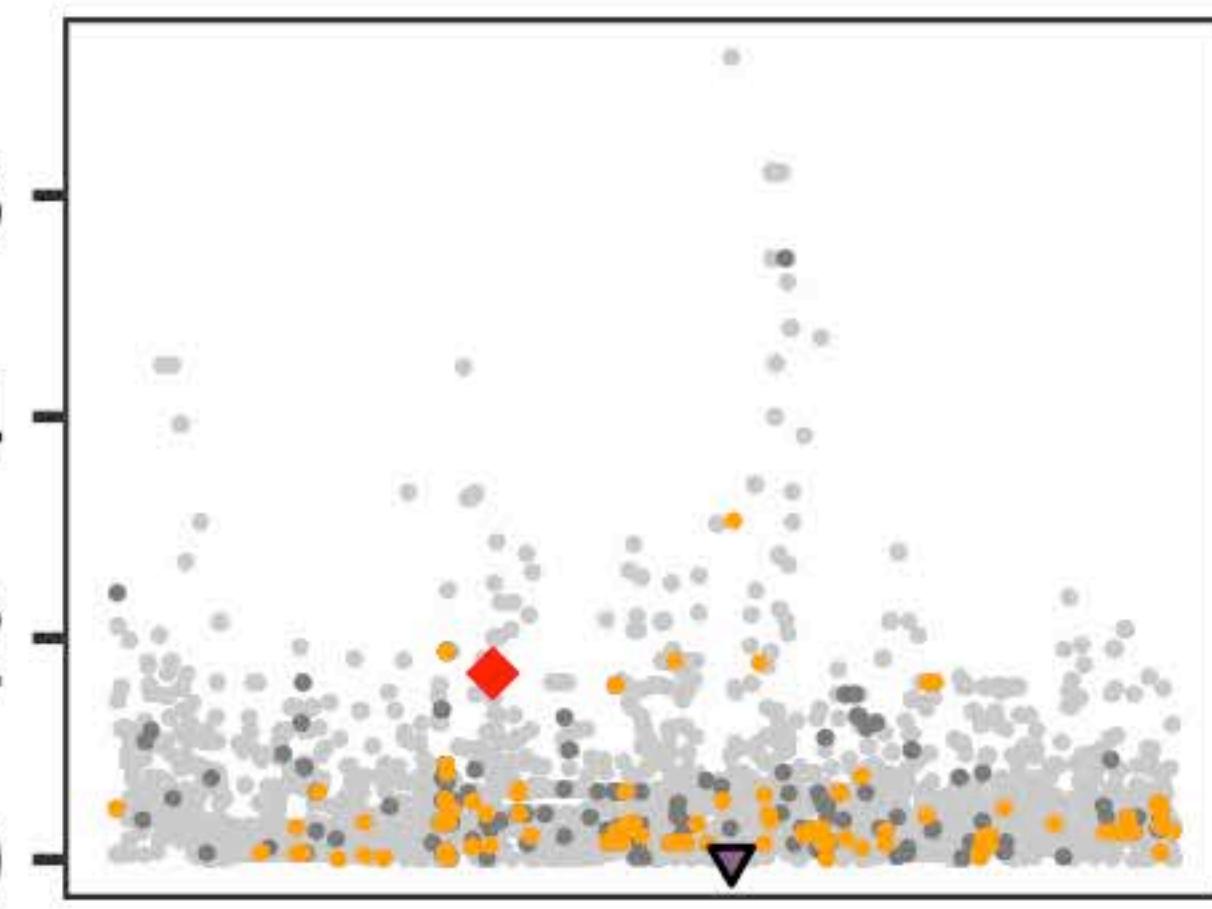
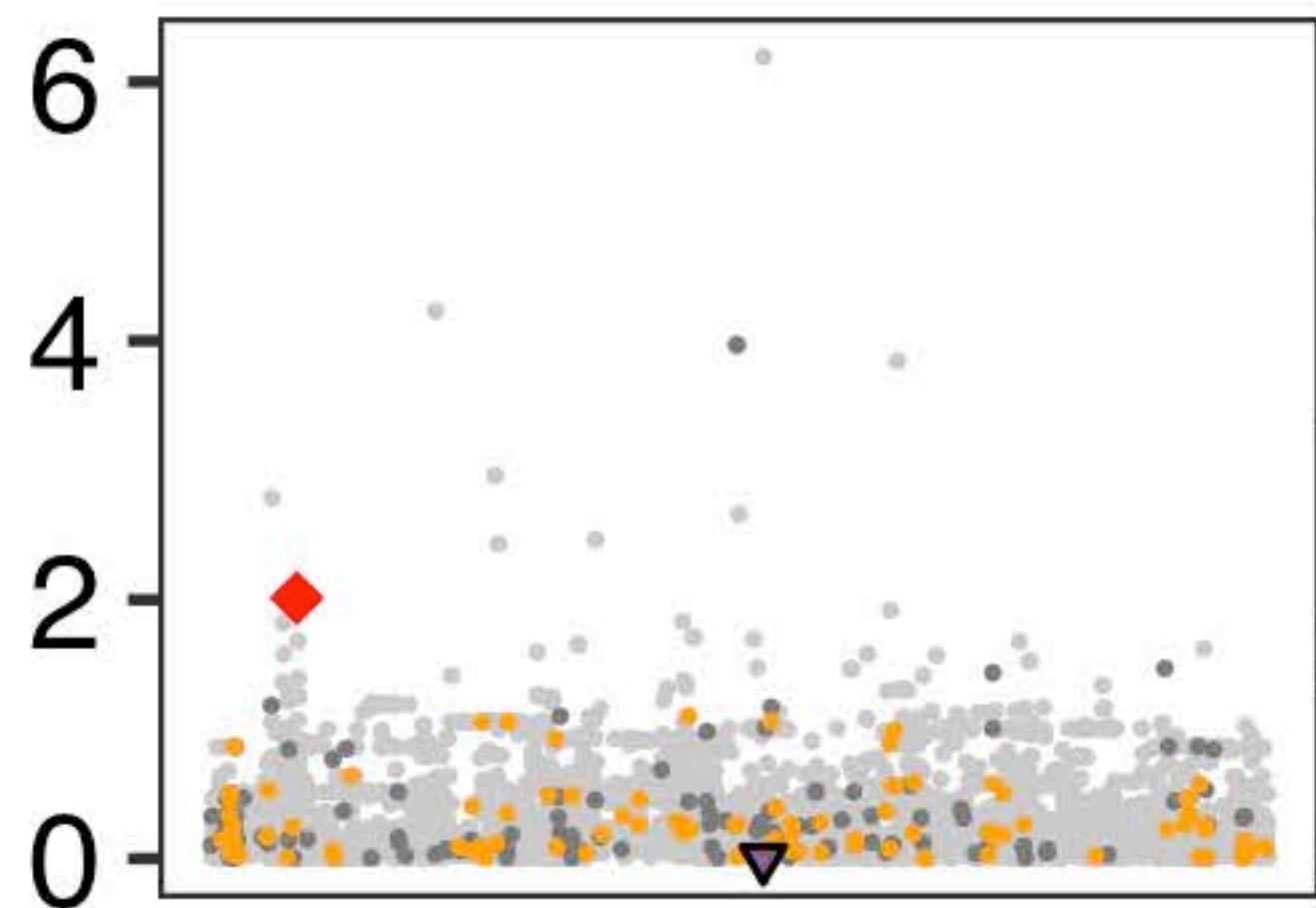
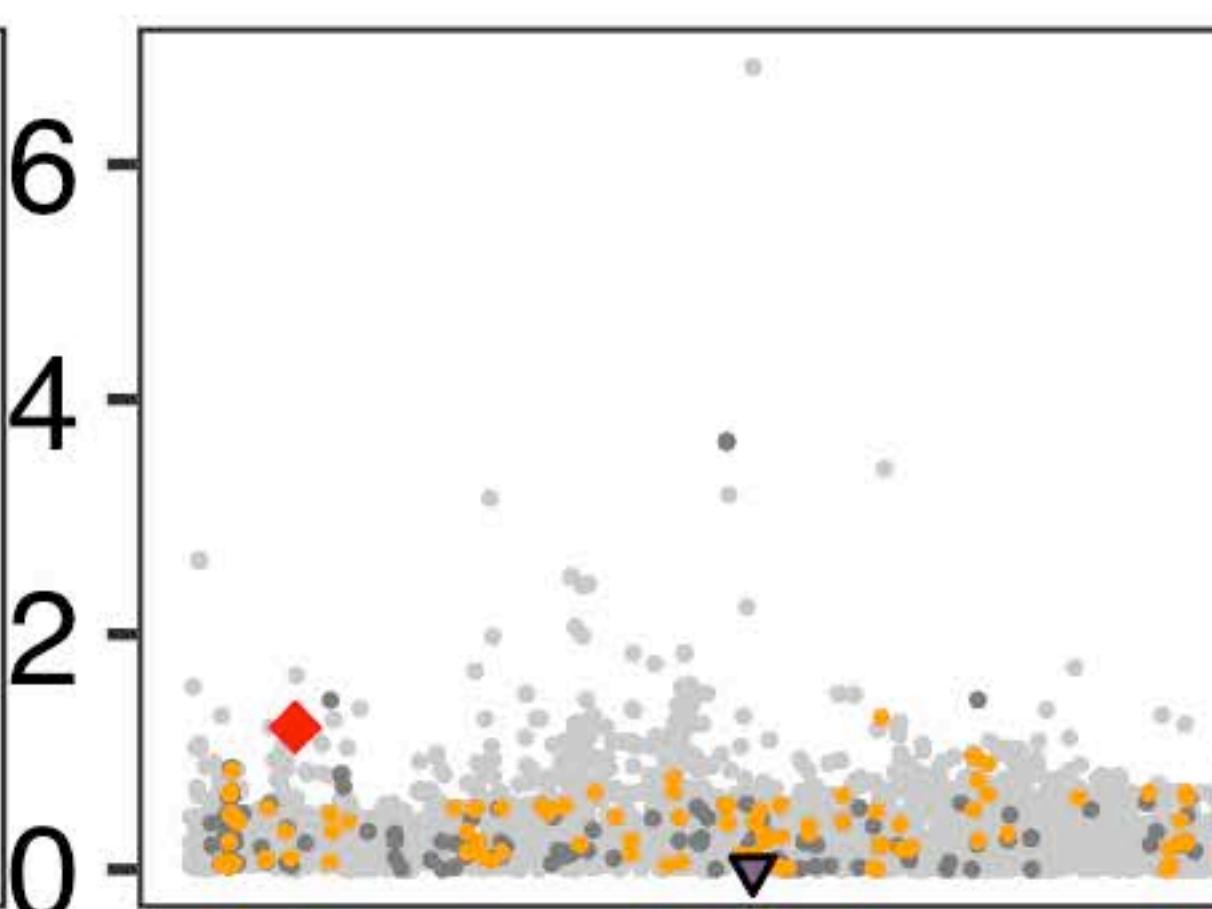
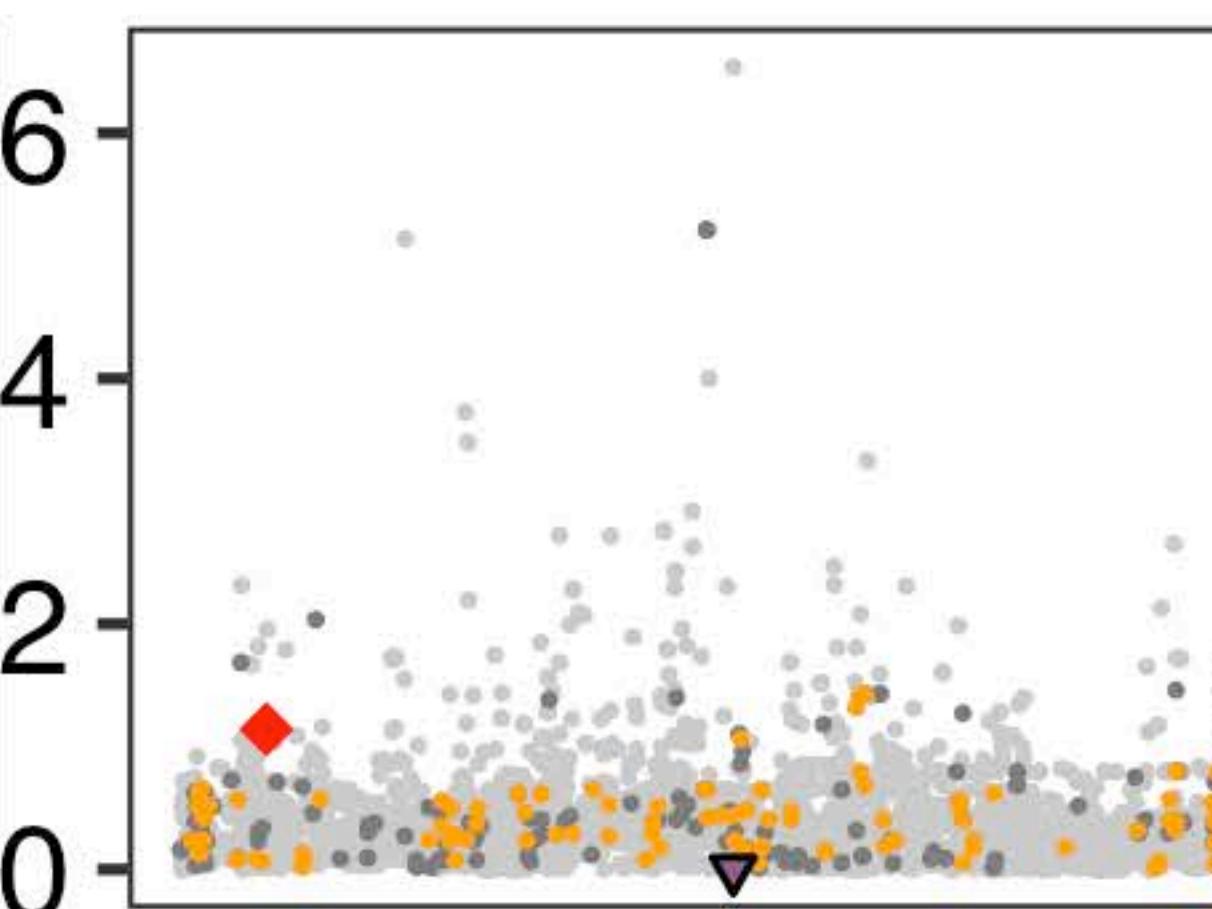
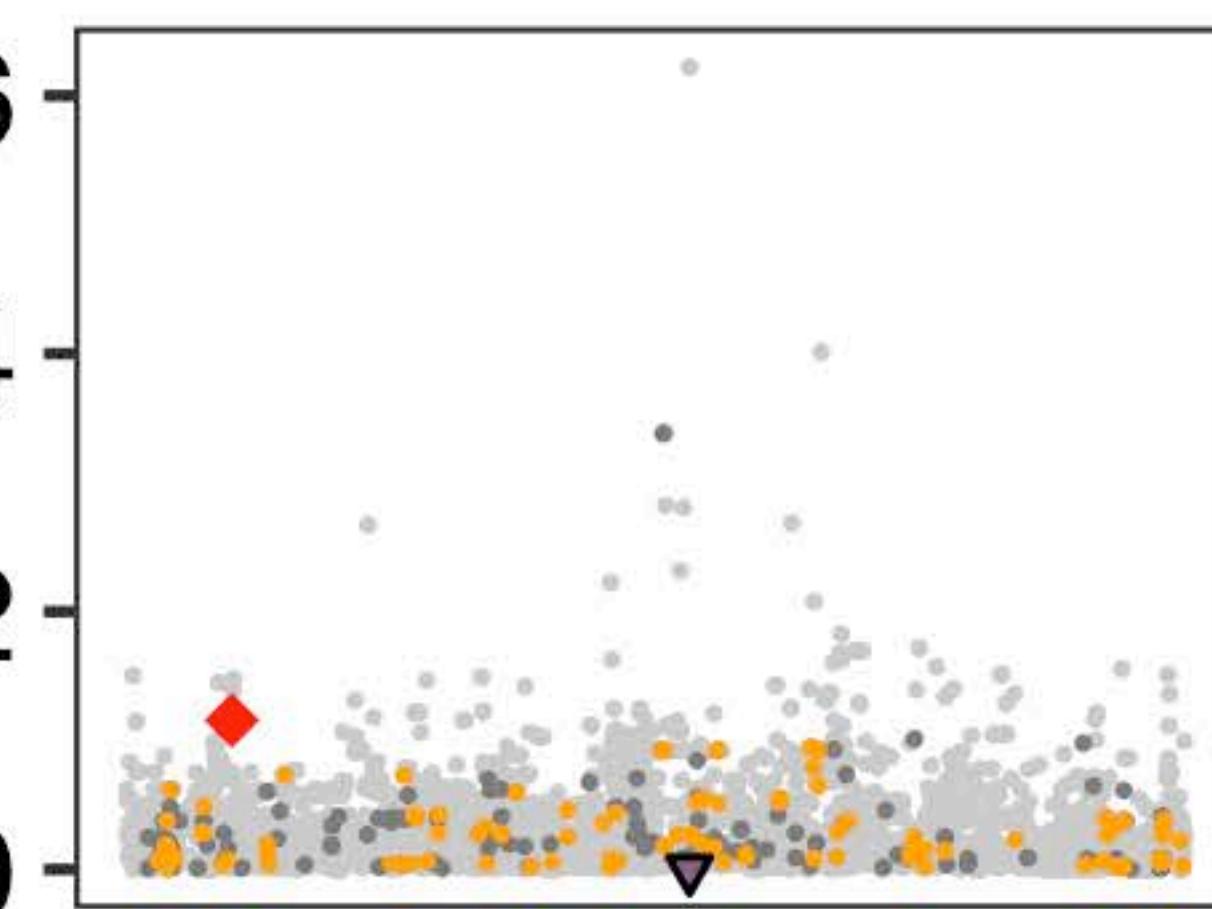
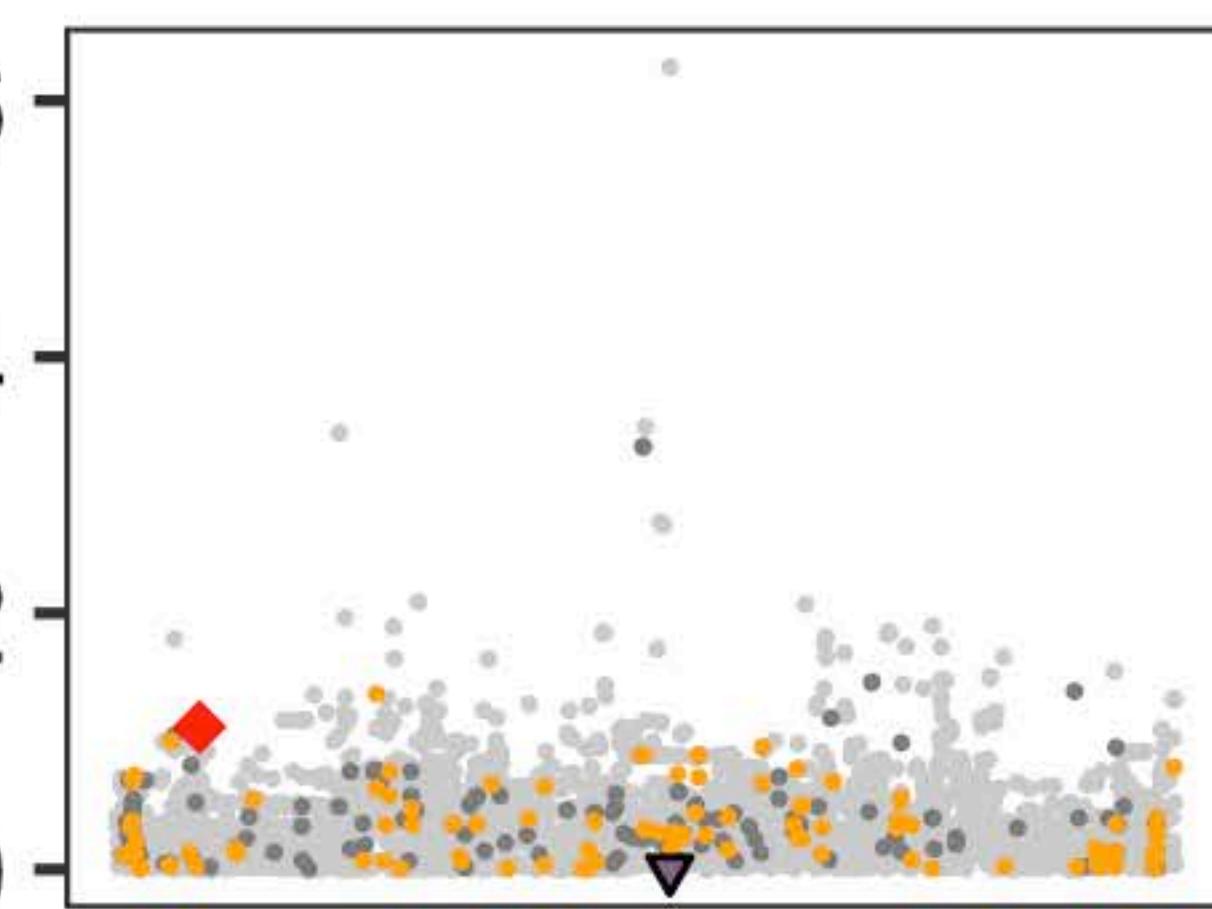
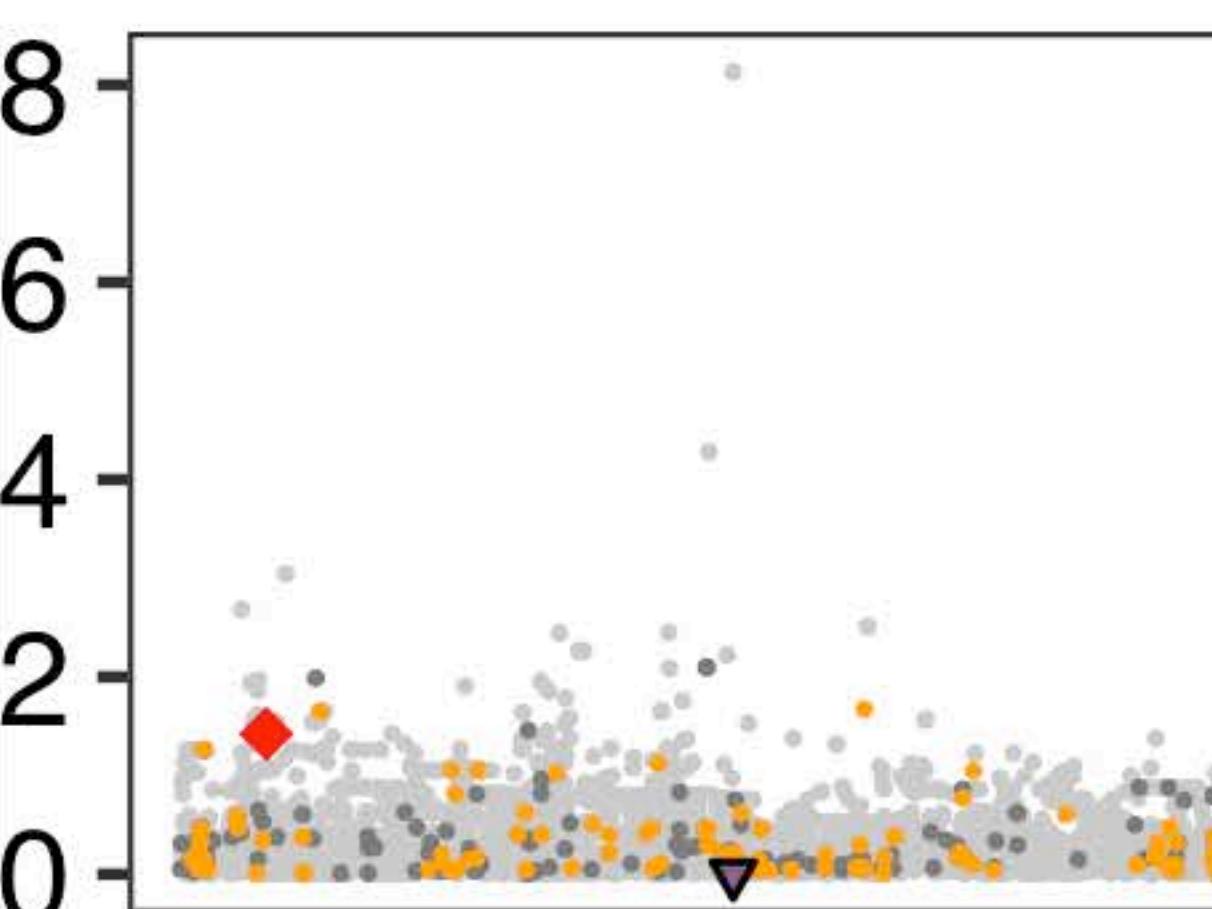
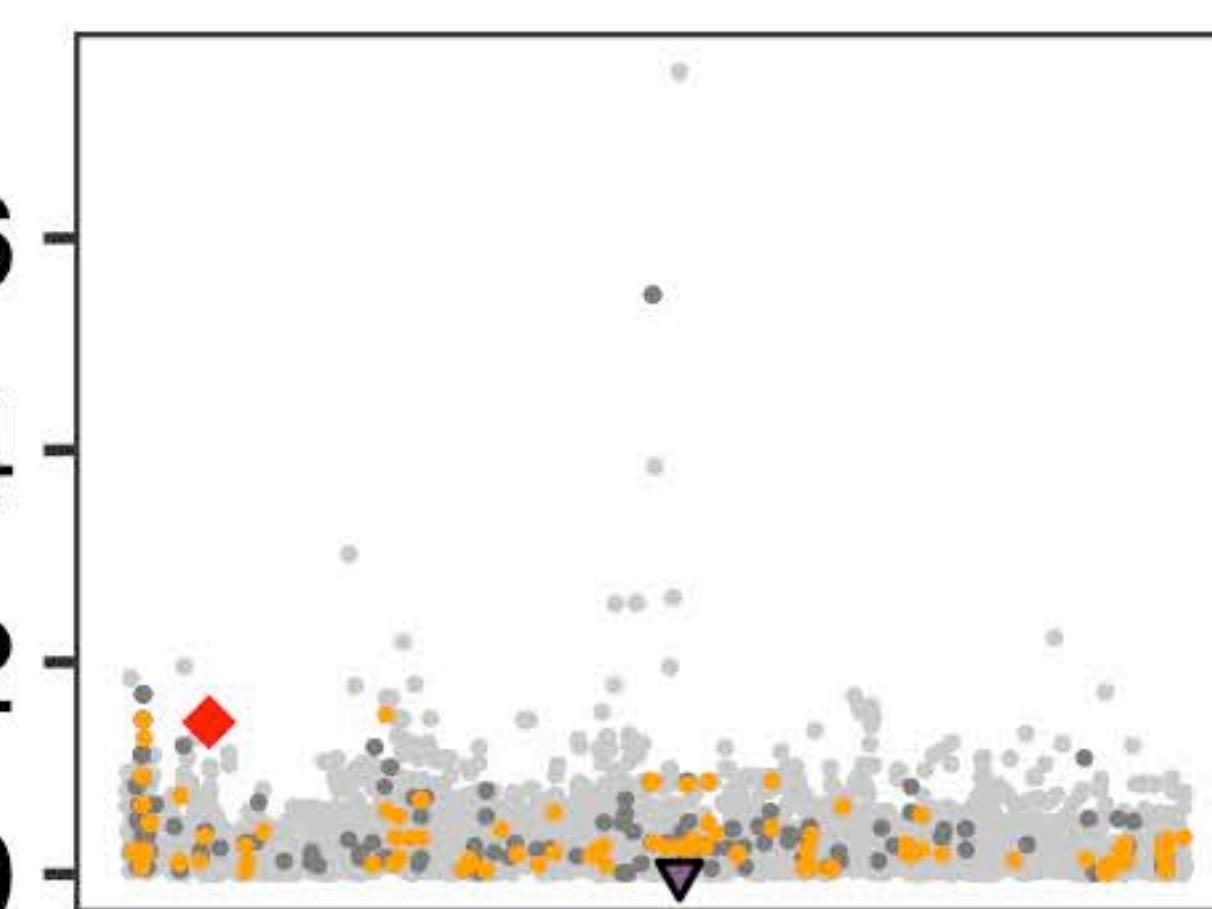
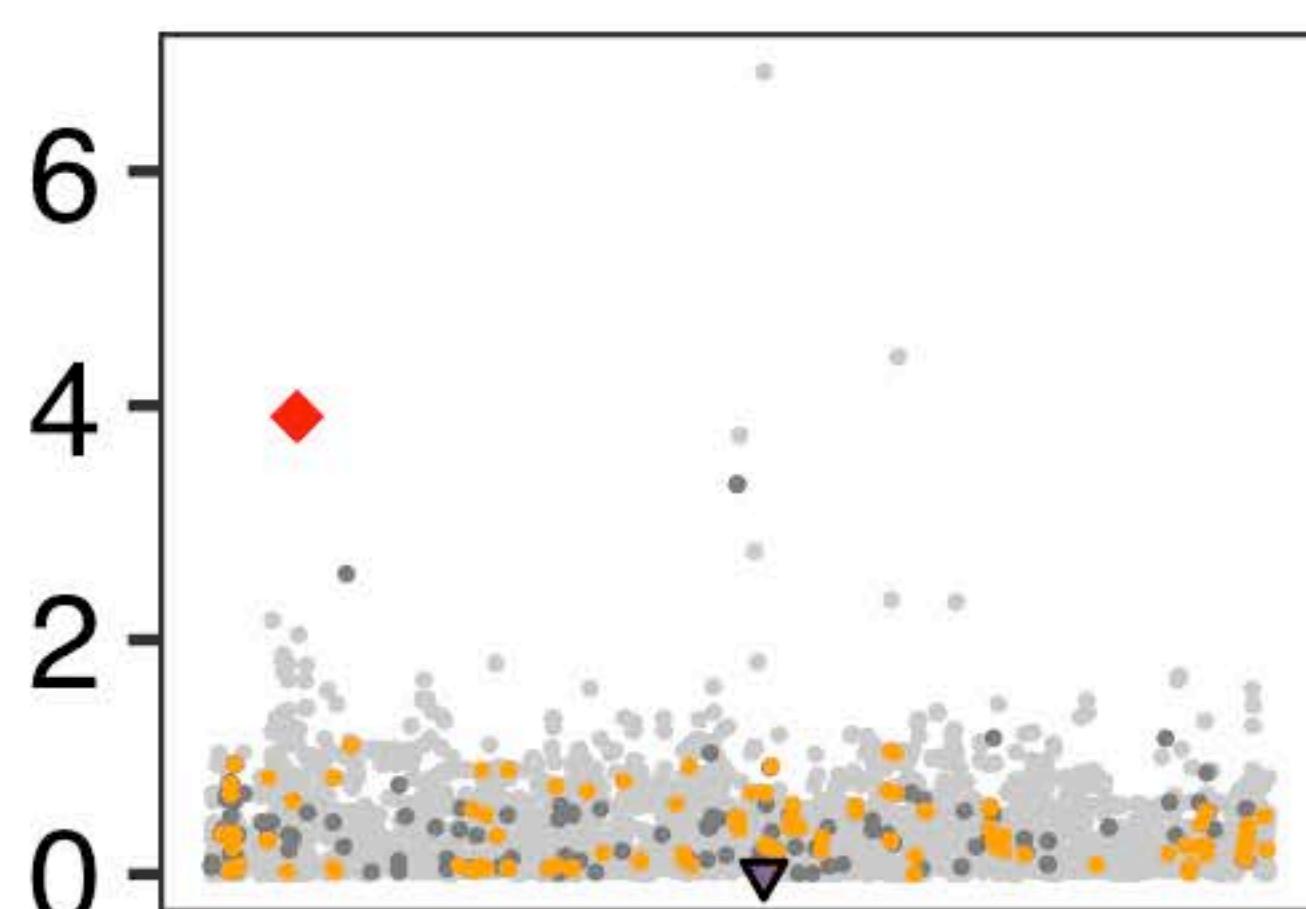
C38C10.4.2*F41E6.5a.1**F49D11.6.1**R08D7.3.2**R10D12.14a.1**T26A5.2b.1**Y39E4A.3a.2*

Genomic position (Mb)

Candidate genes

◆ *R05D3.3*

Chromosome III: 41 cM

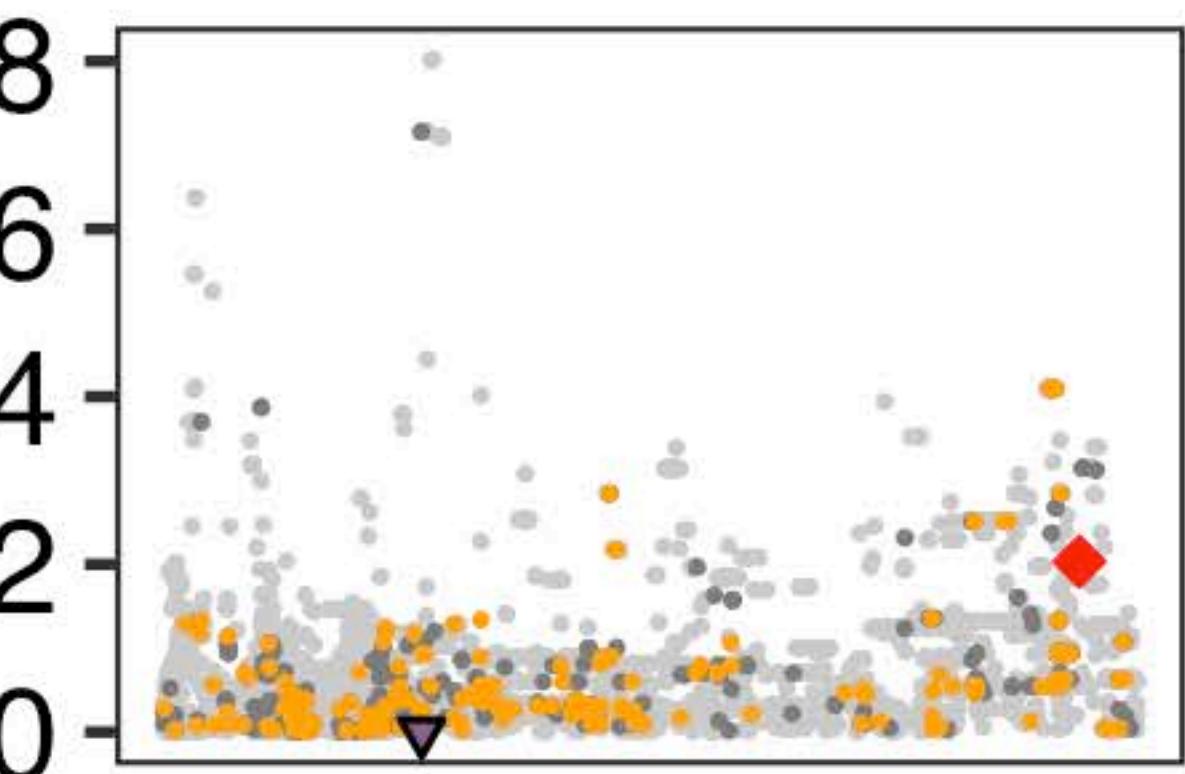
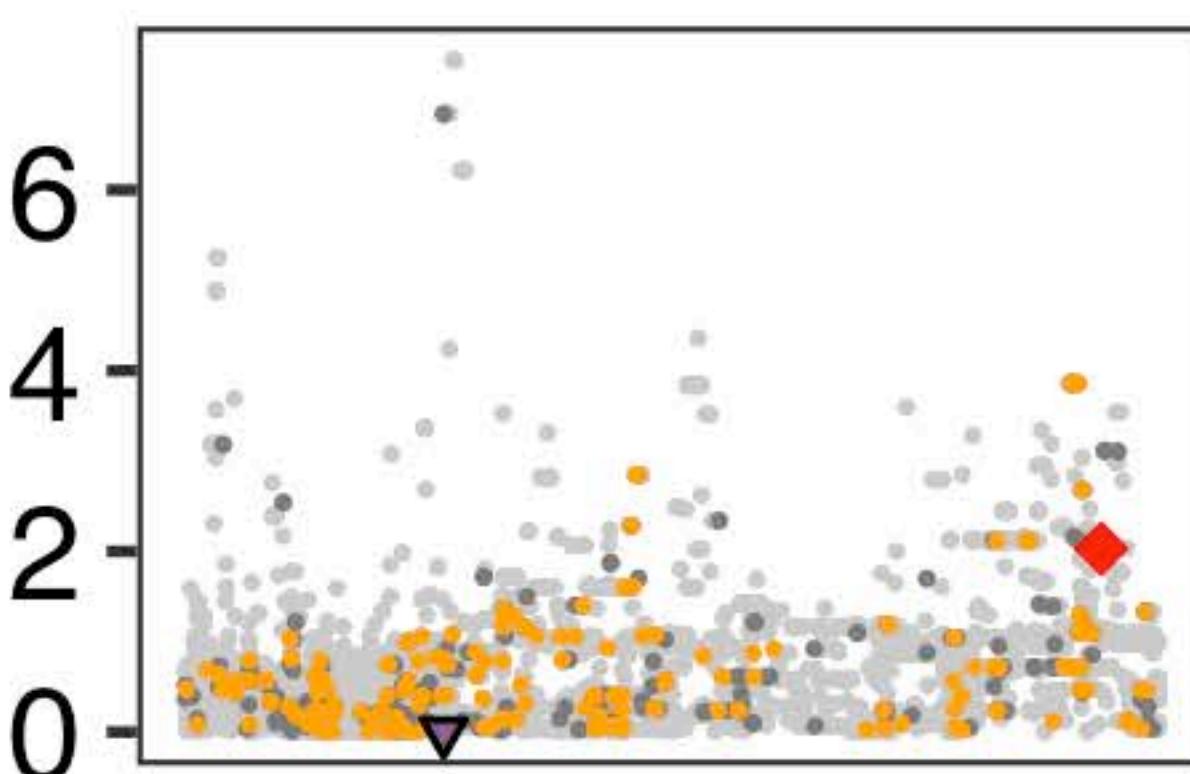
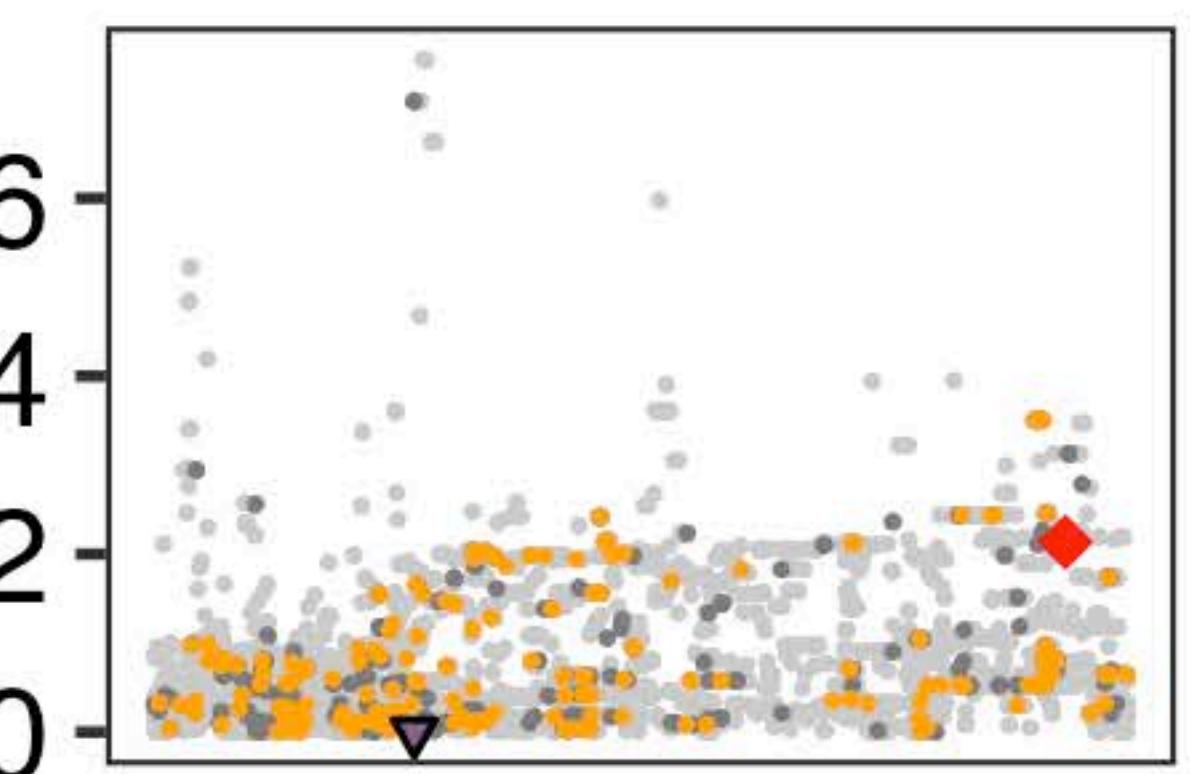
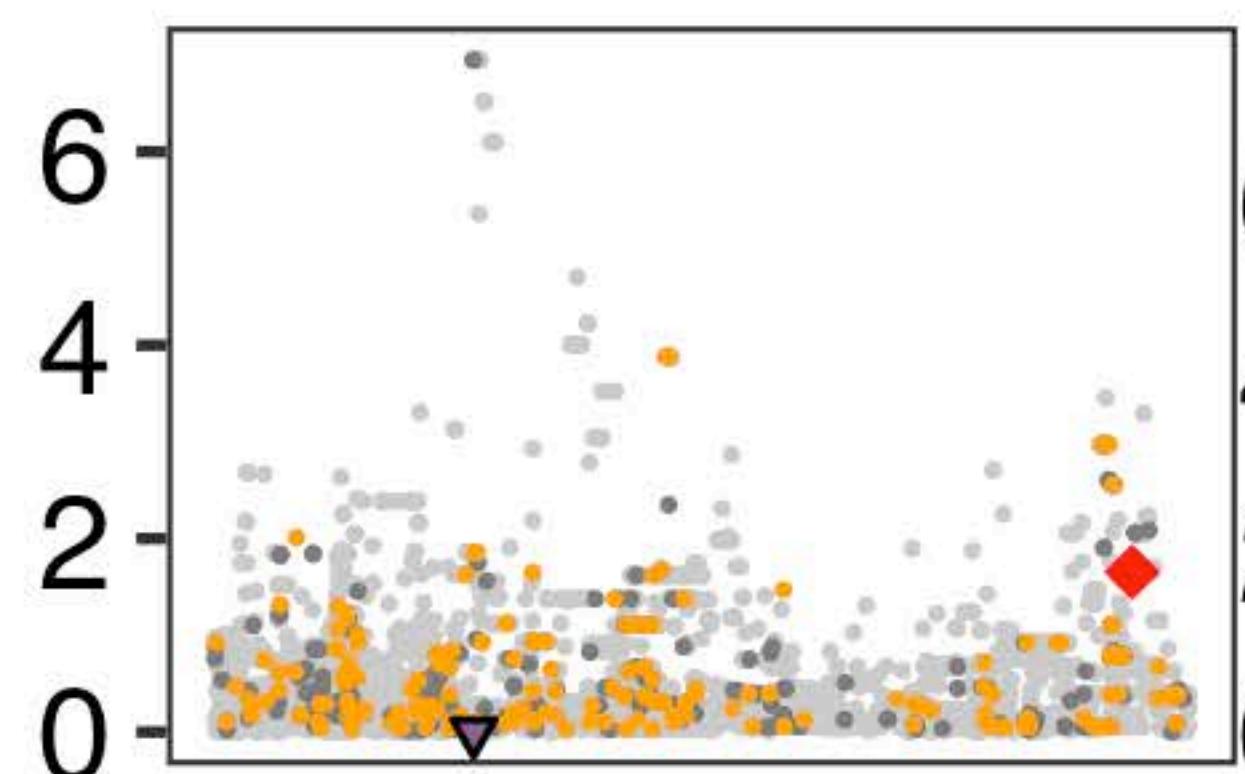
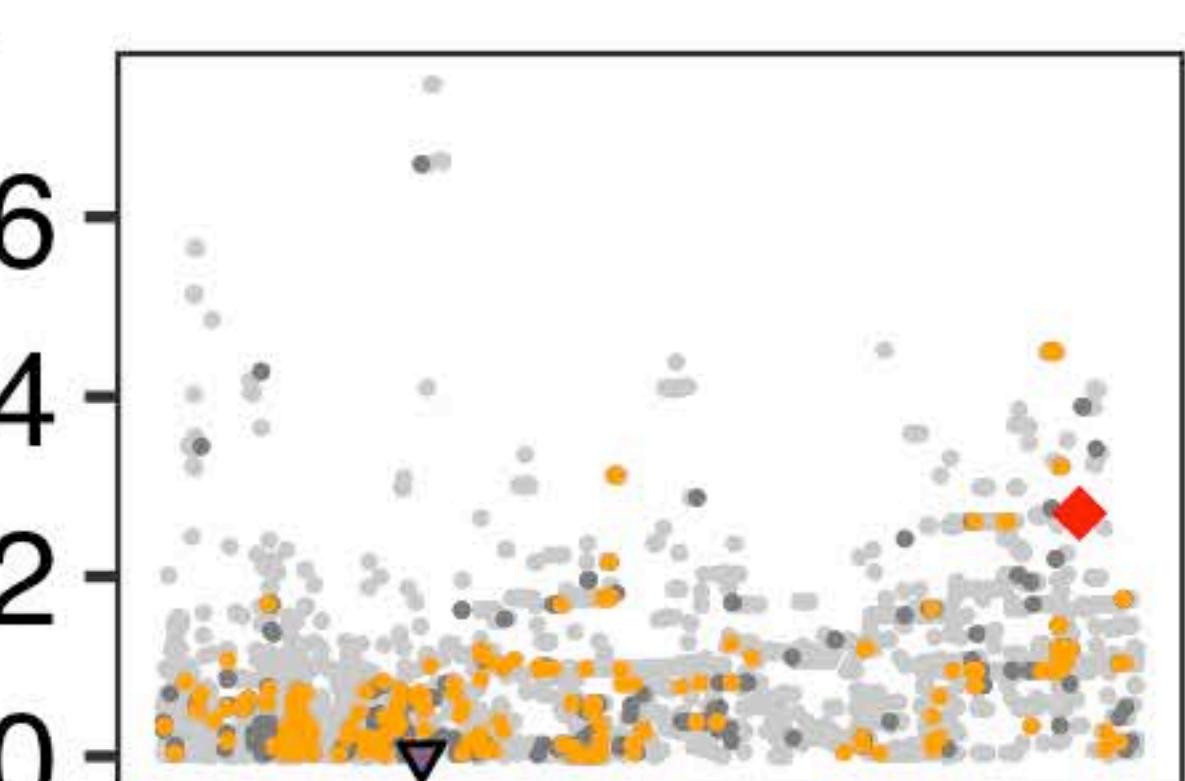
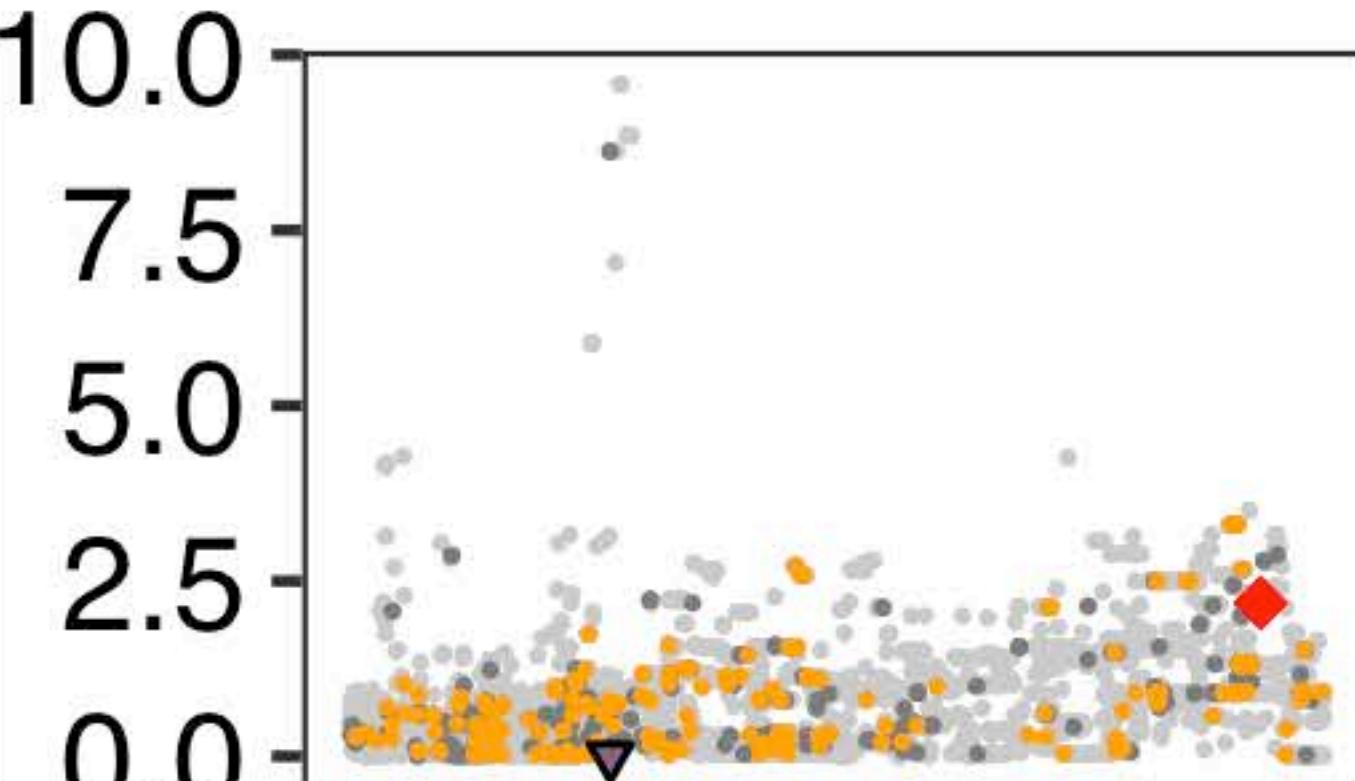
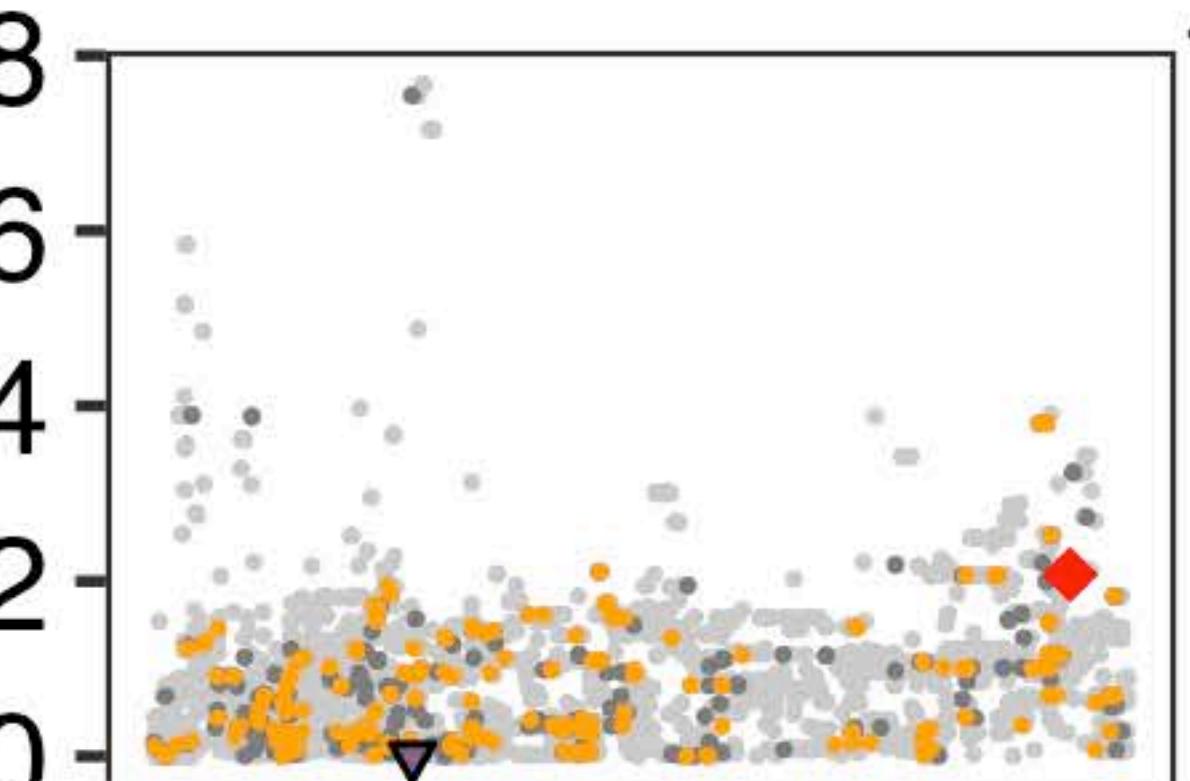
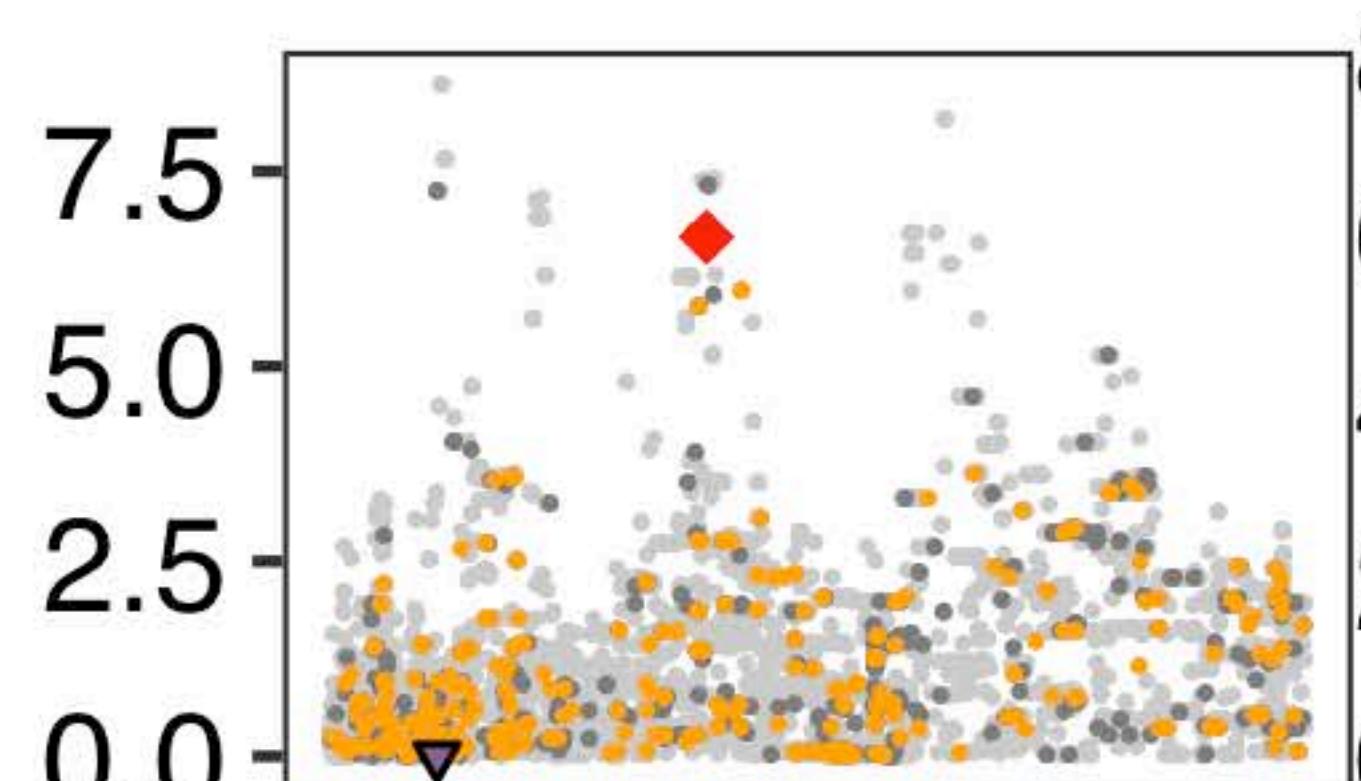
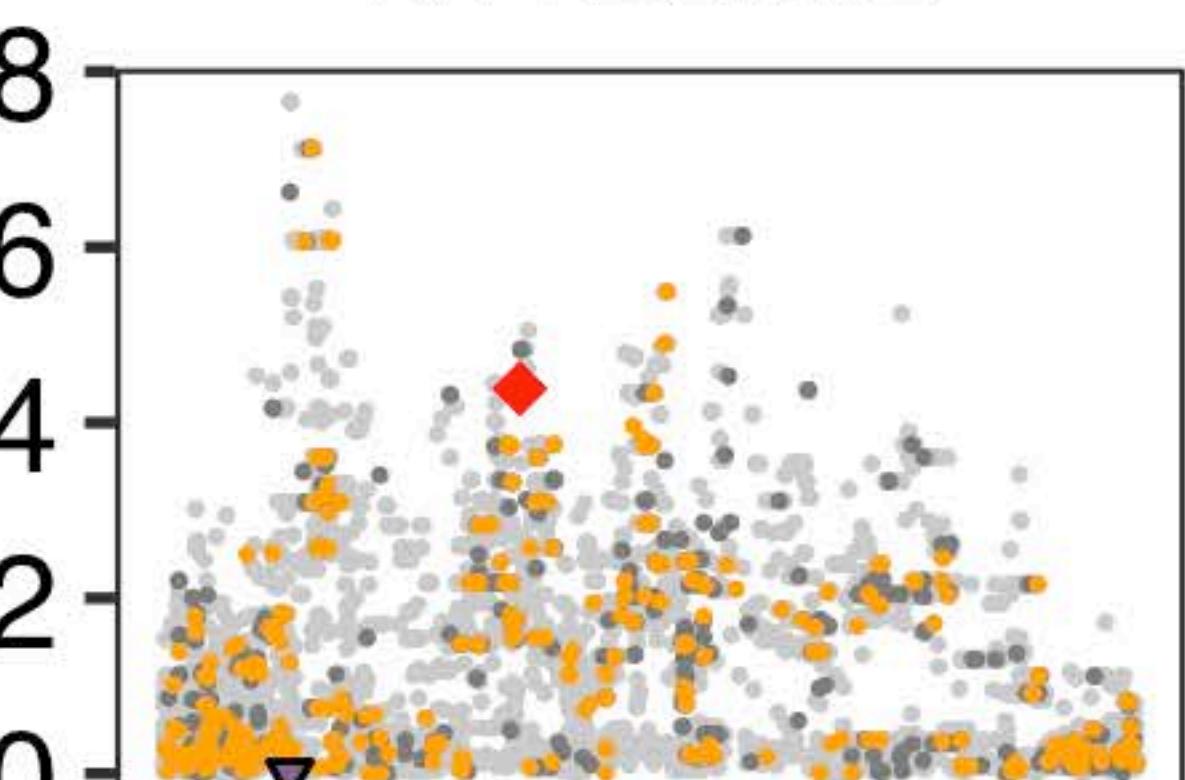
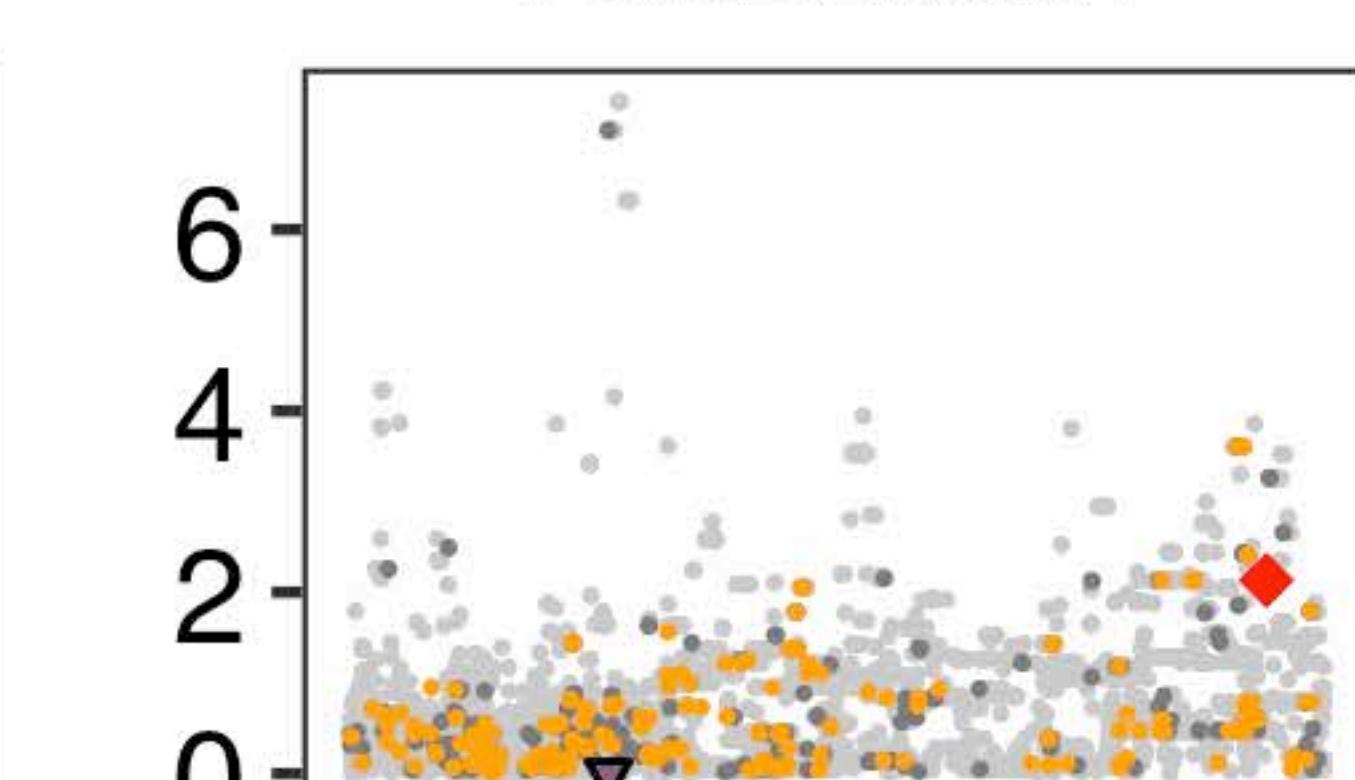
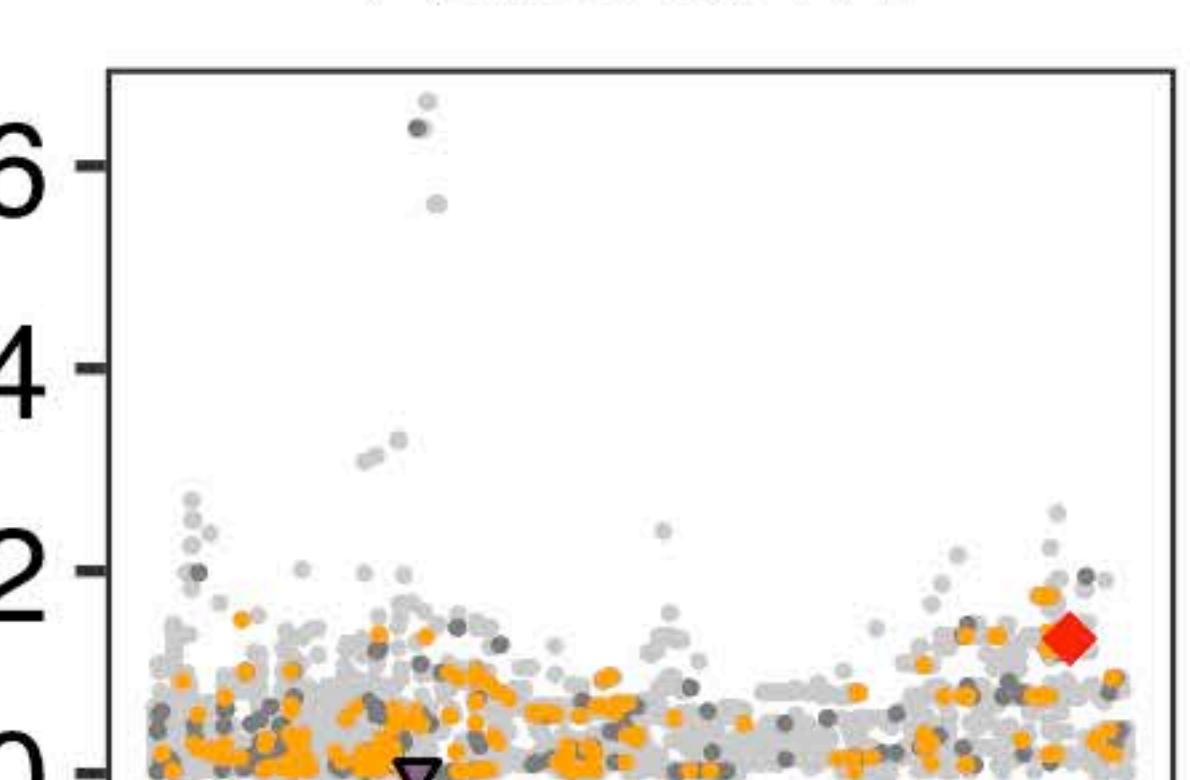
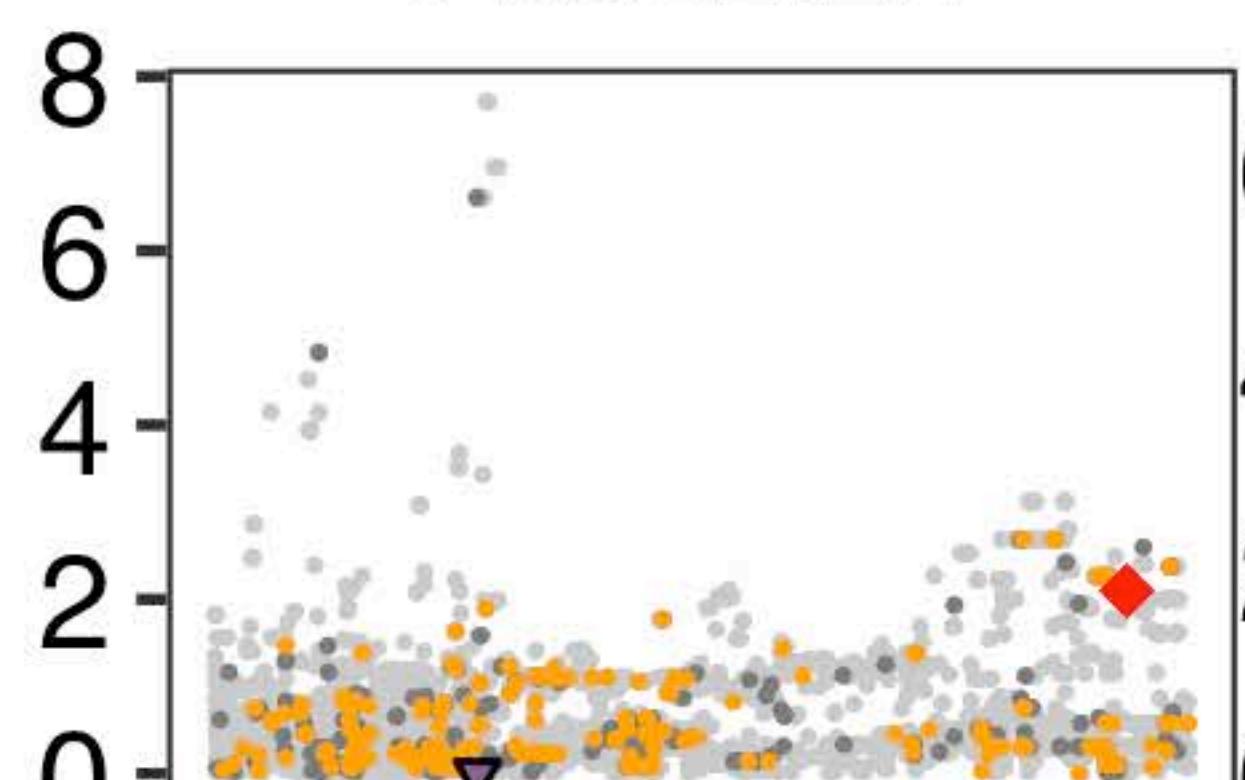
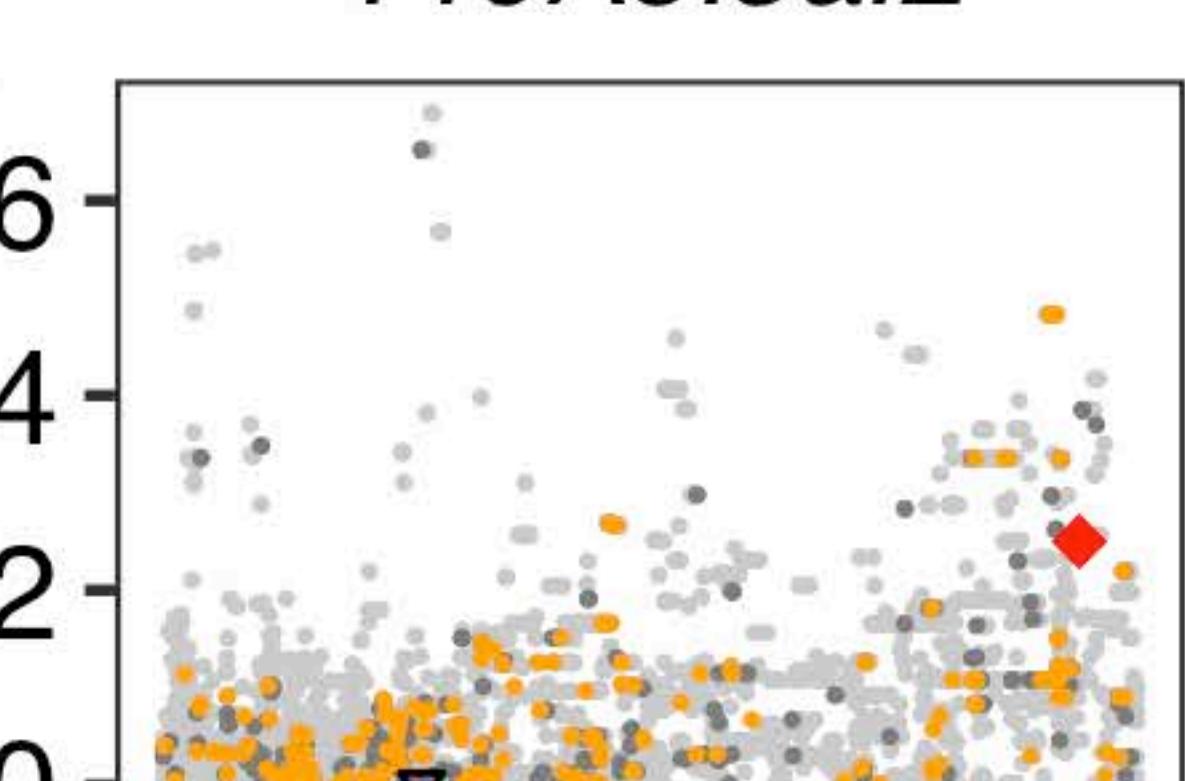
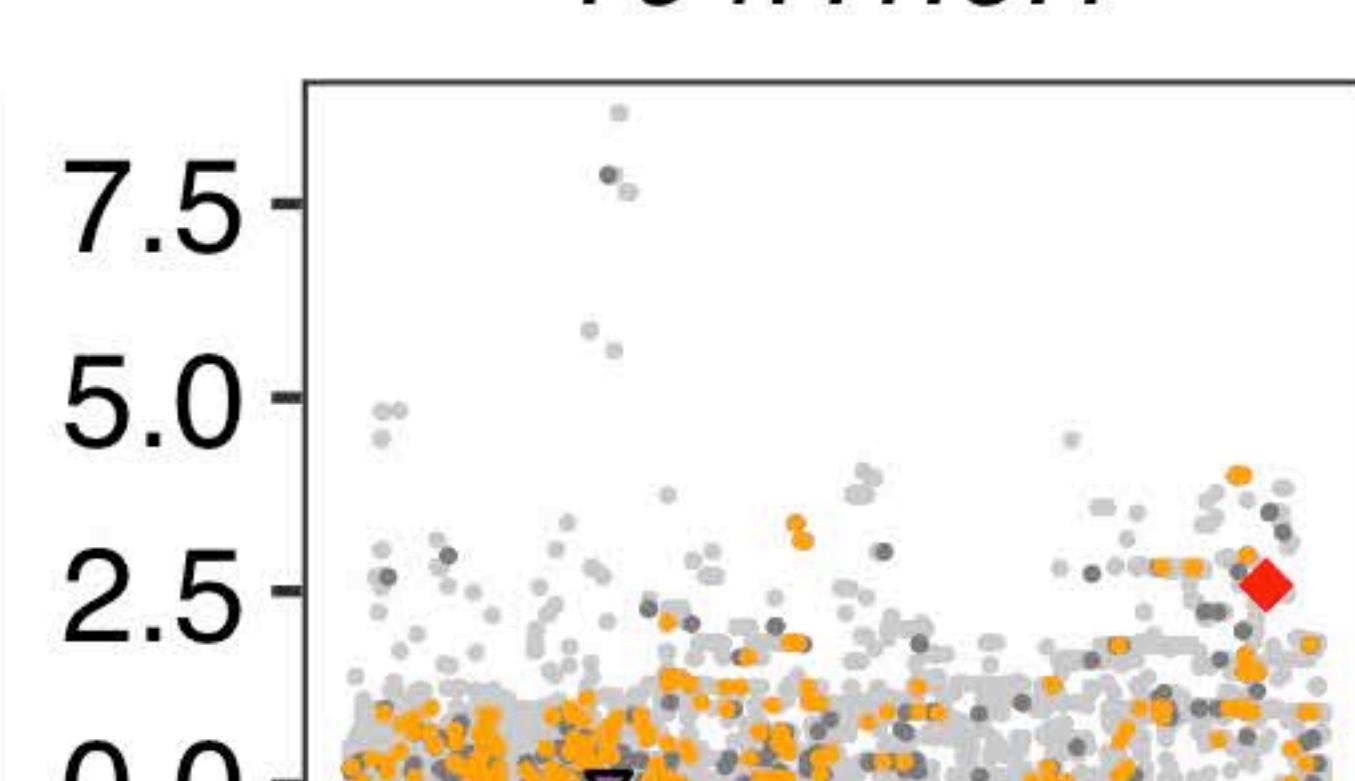
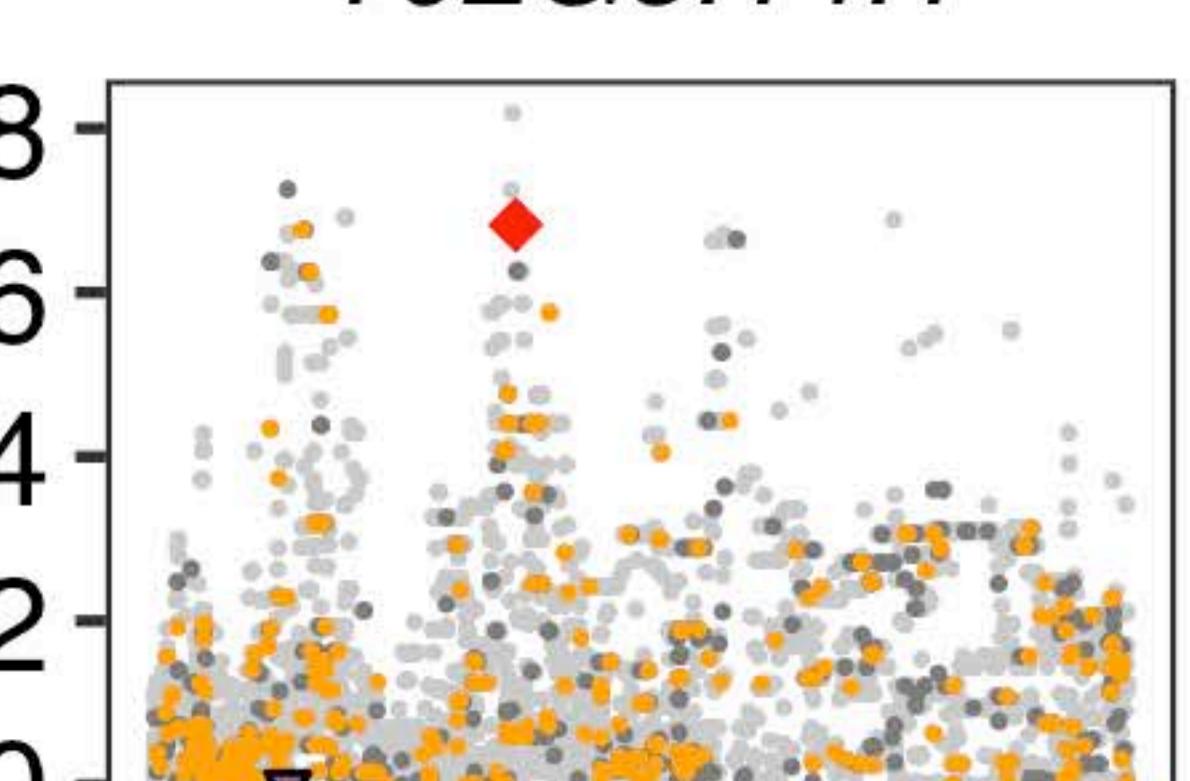
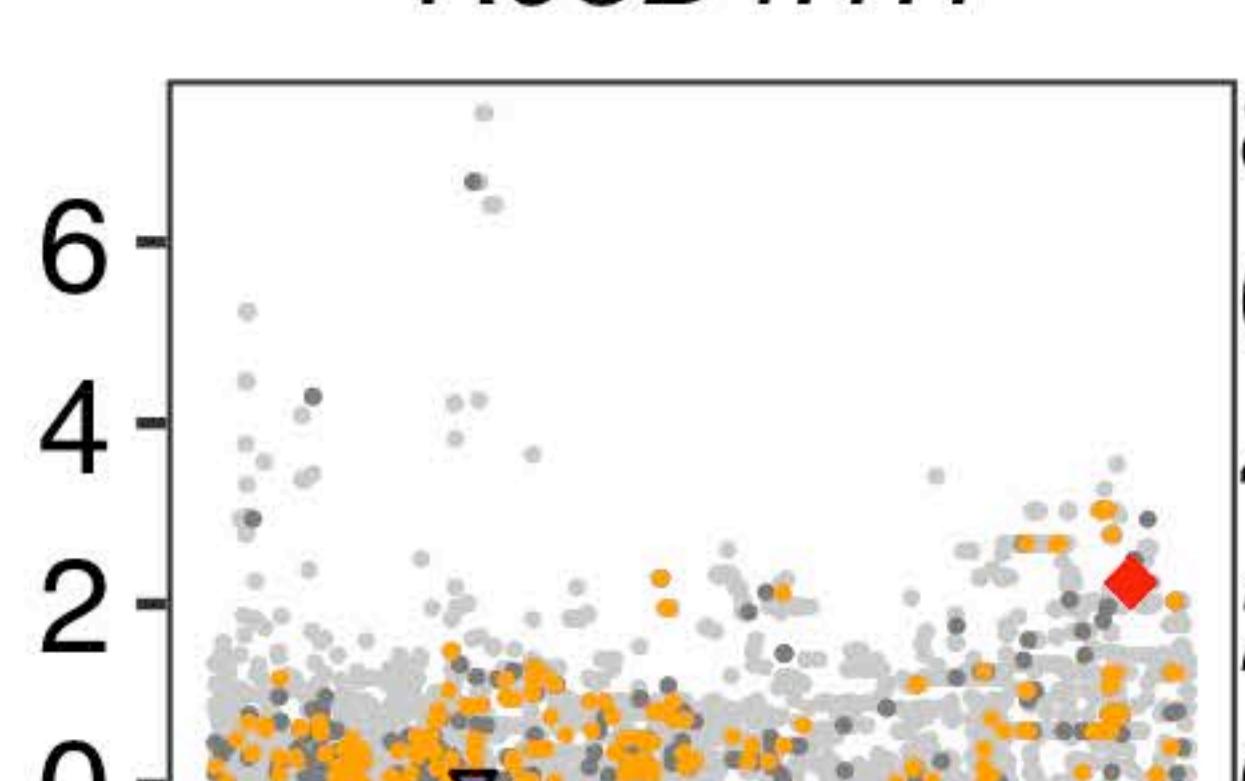
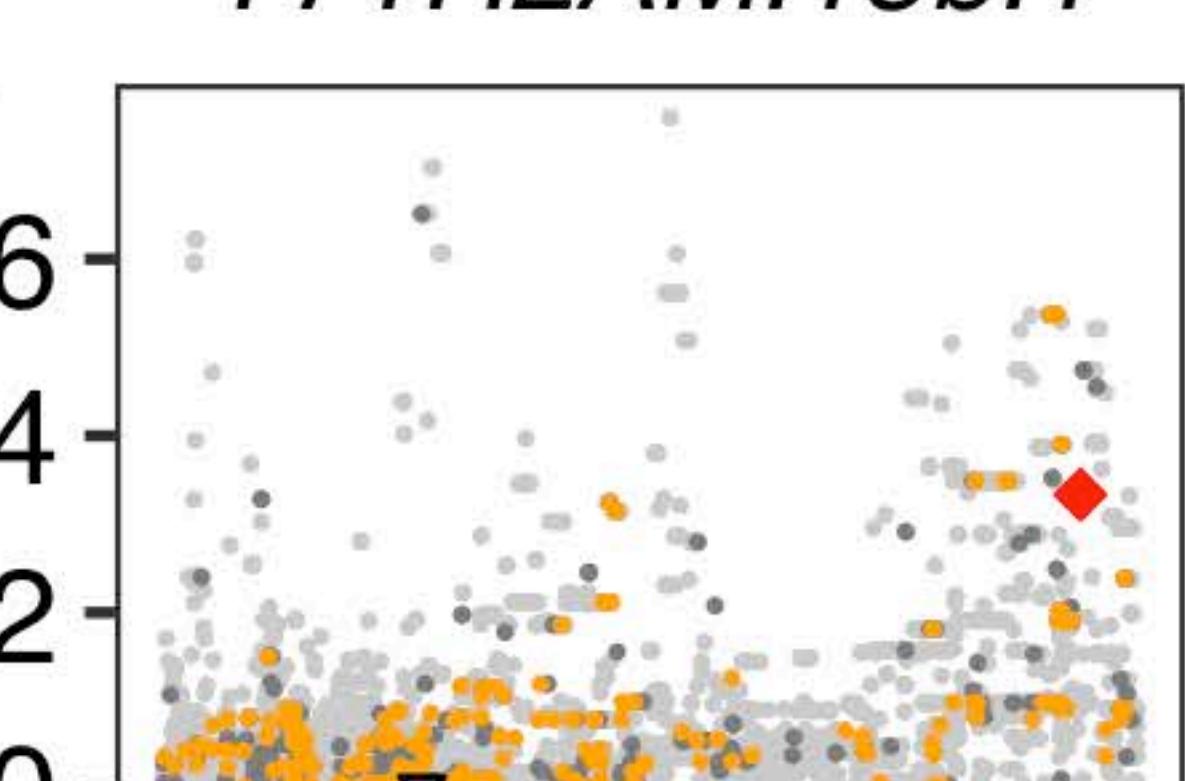
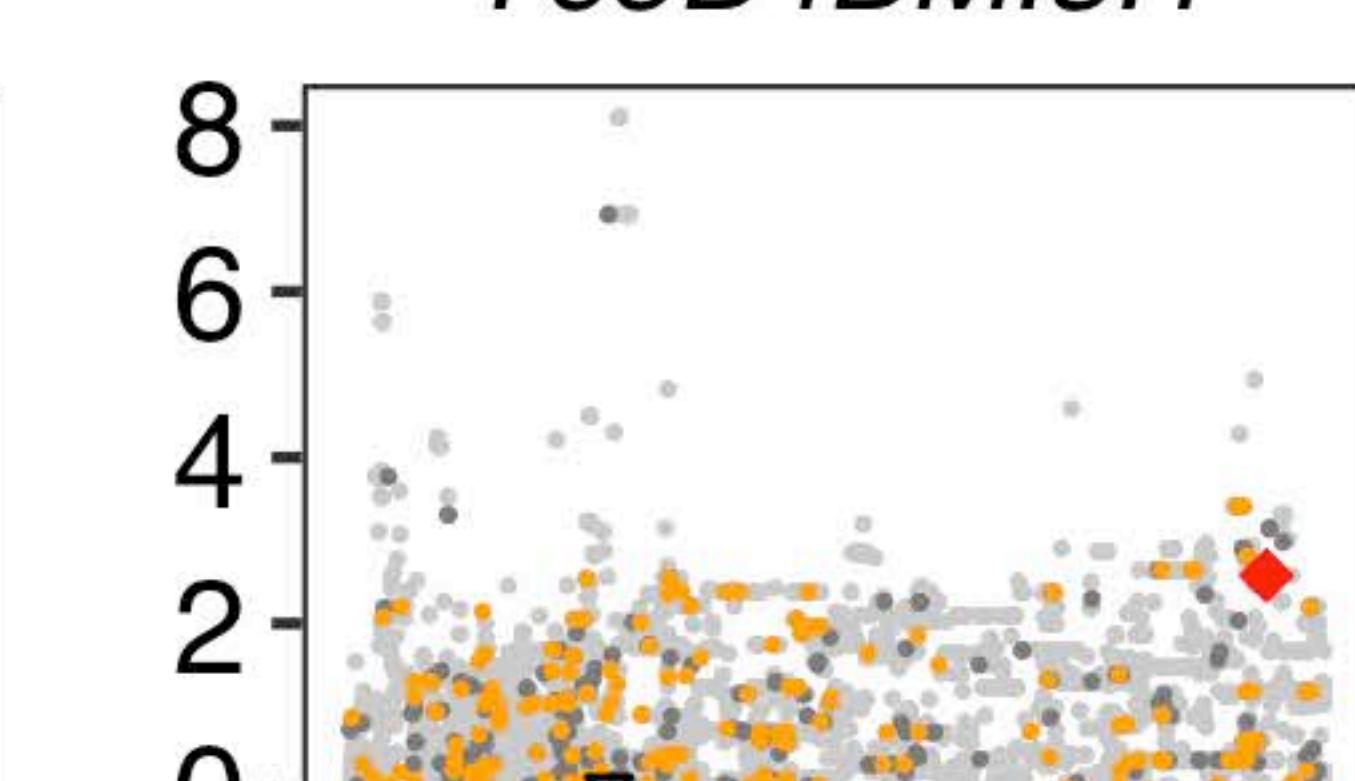
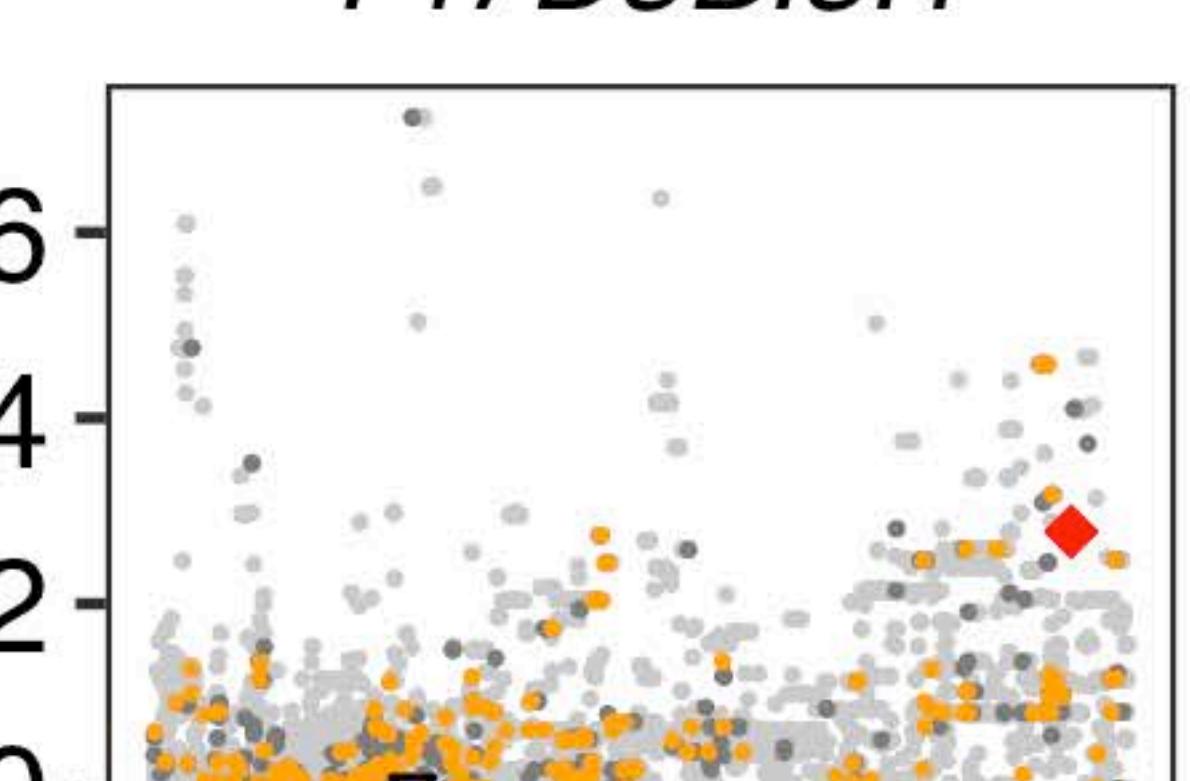
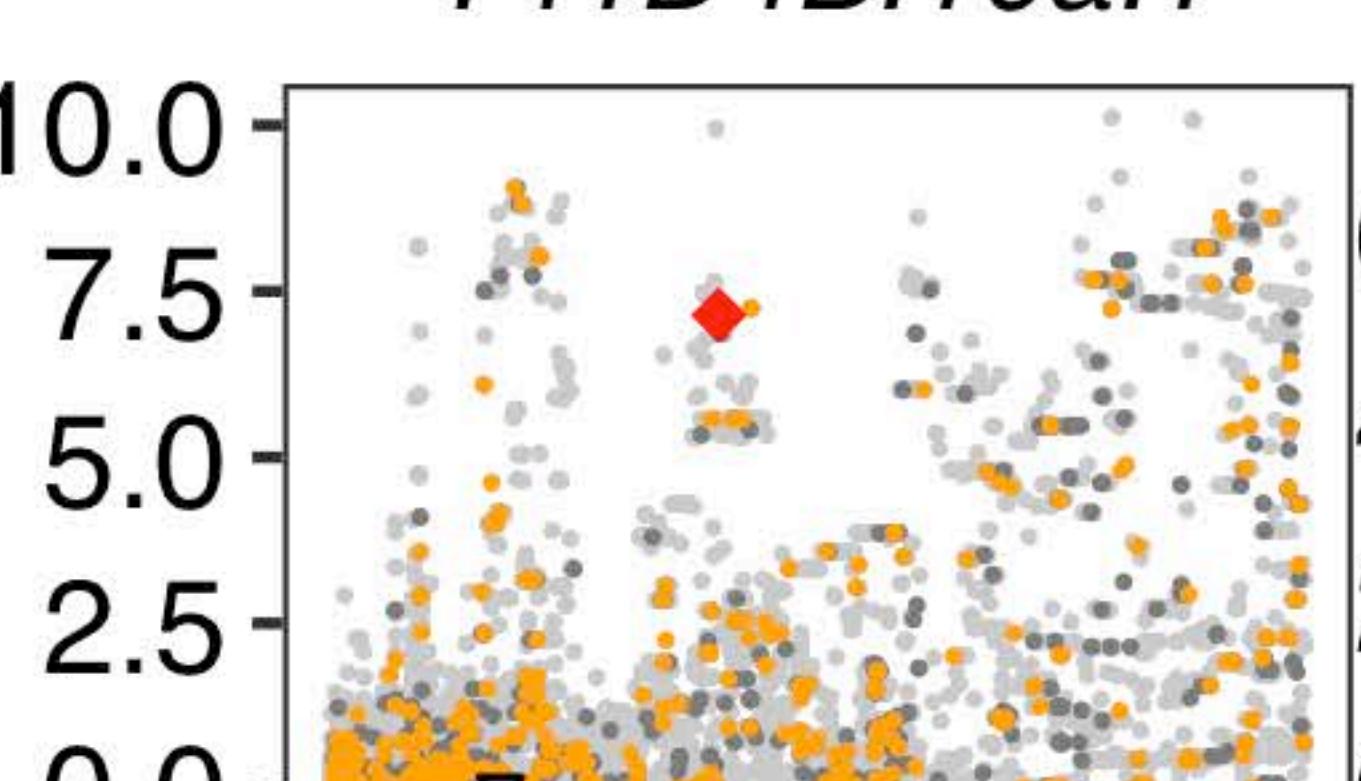
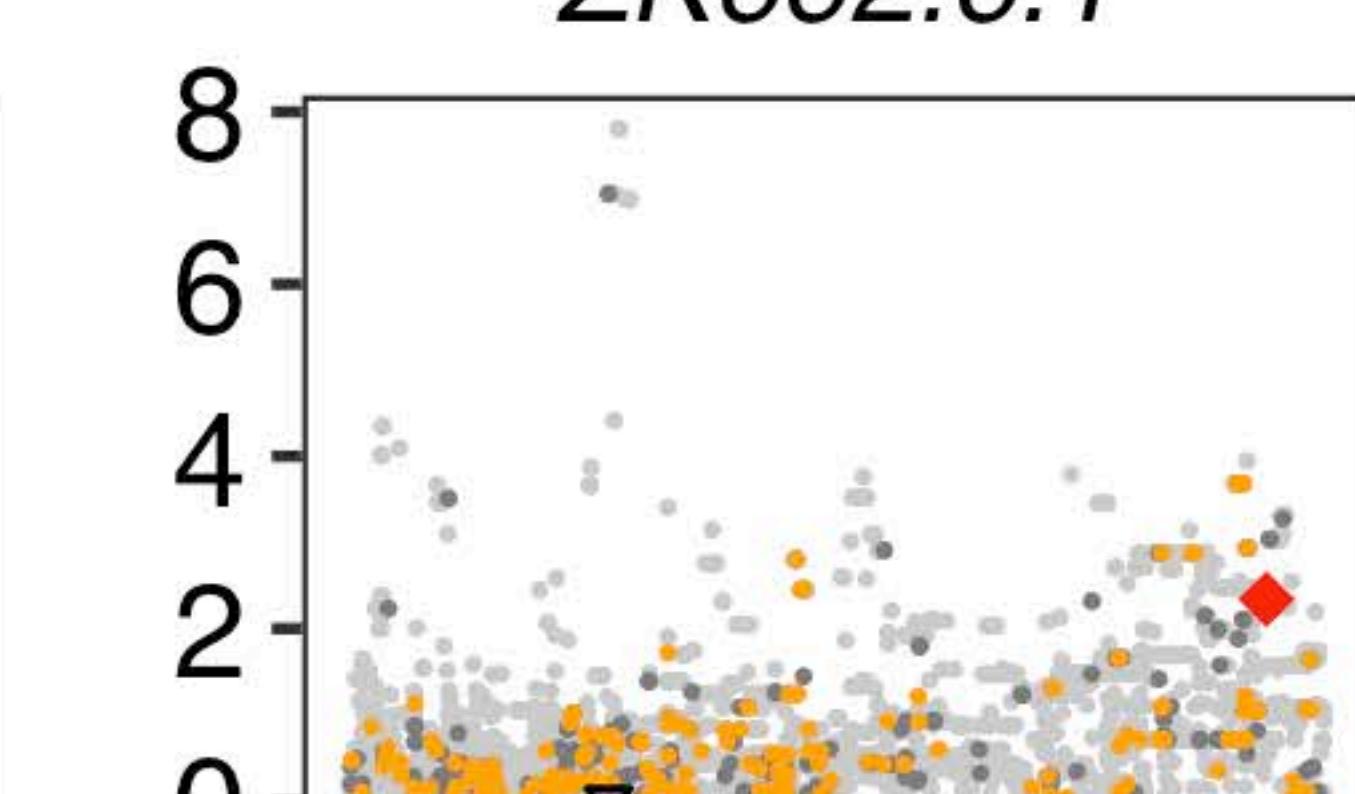
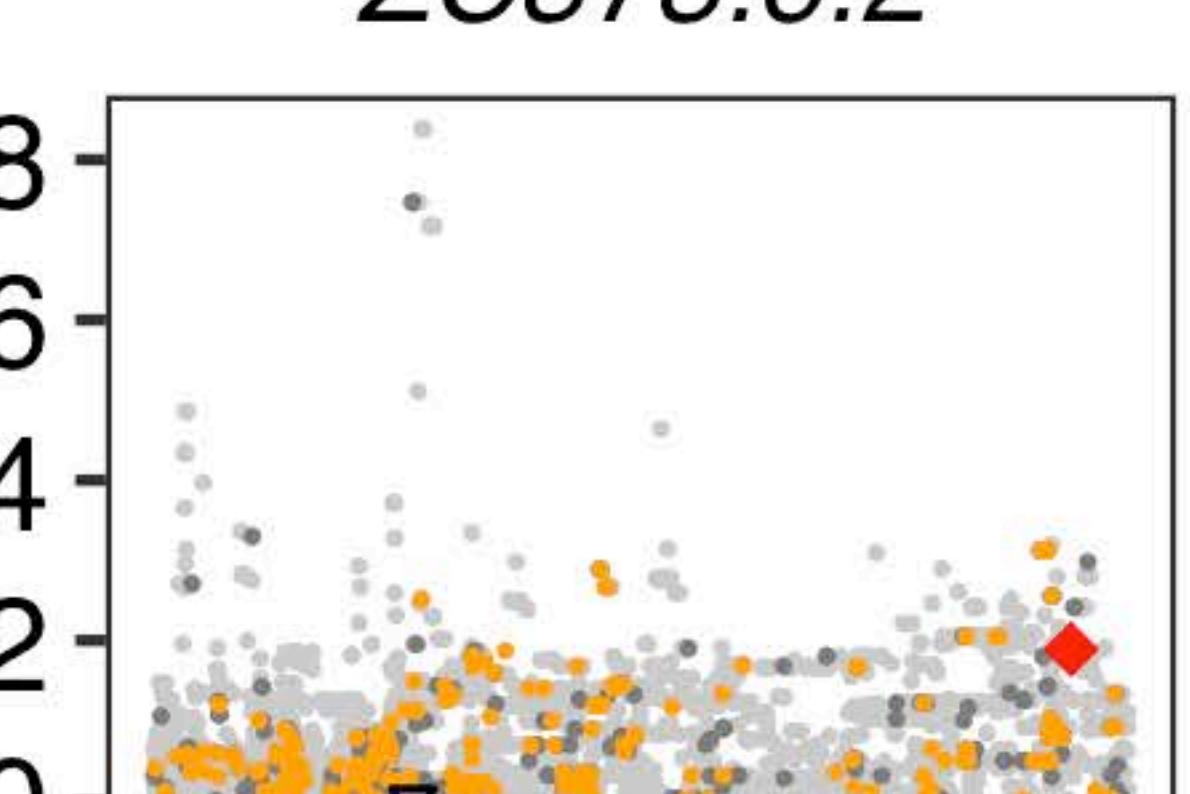
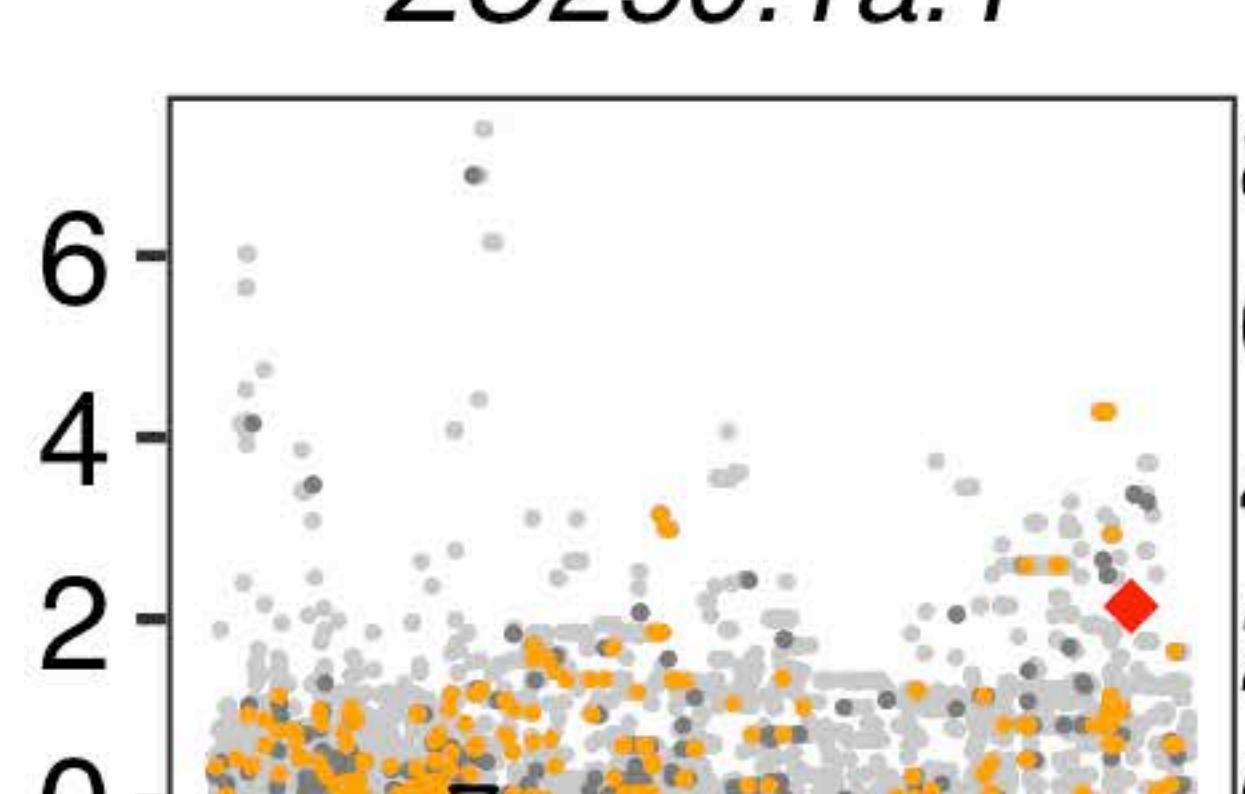
*C05C9.1.1**C08E3.12.1**C09B8.3.1**C26B9.2.1**C50F7.1b.2**C53B4.8.1**C54G7.3a.1**R05G9R.1.1* $-\log_{10}(p)$ *T19B10.9.1**Y39E4B.9d.1**ZK1055.4.2*

Genomic position (Mb)

Candidate genes

◆ *ceh-92*

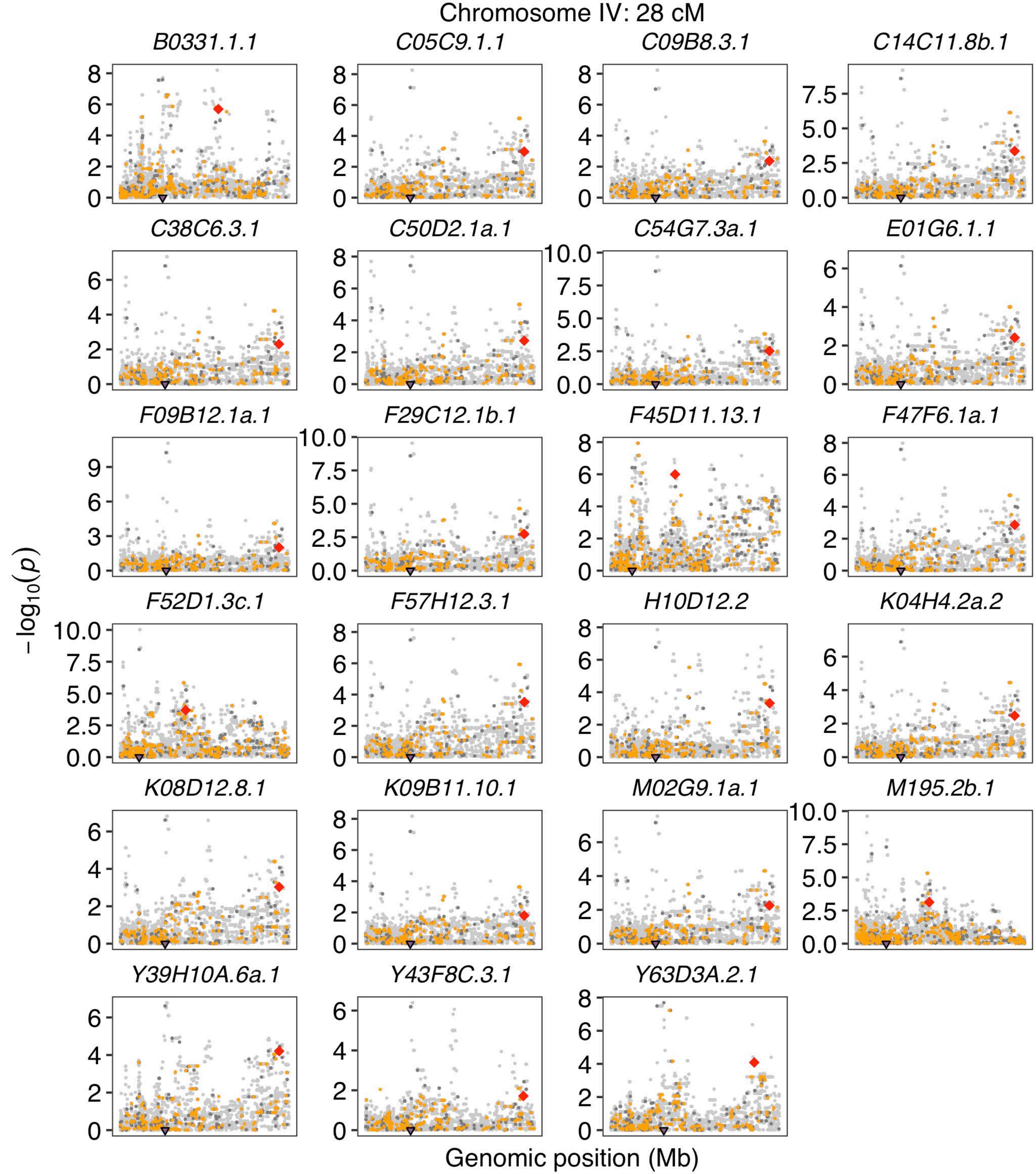
Chromosome IV: 28 cM

*C06E4.8.1**C09E8.3.1**C16C8.2.1**C25F6.7a.1**C44H4.2.1**F25H8.6.2**F32D1.11.1**F32E10.3b.1**F35D2.2.1**F39D8.4.1**F56D2.3a.1**K11D2.5.2**R08B4.1.1**T02G5.14.1**T04H1.6.1**T19A5.3a.2**Y41D4B.10a.1**Y47D3B.3.1**Y65B4BM.3.1**Y71H2AM.15b.1**ZC250.1a.1**ZC373.6.2**ZK662.6.1*

Genomic position (Mb)

Candidate genes *hil-2*

Chromosome IV: 28 cM



Candidate genes • *hil-2*

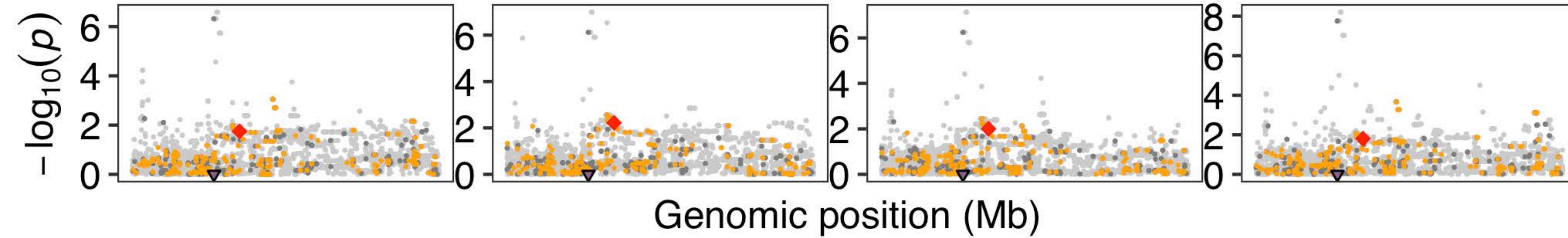
Chromosome IV: 28 cM

C29E4.1.1

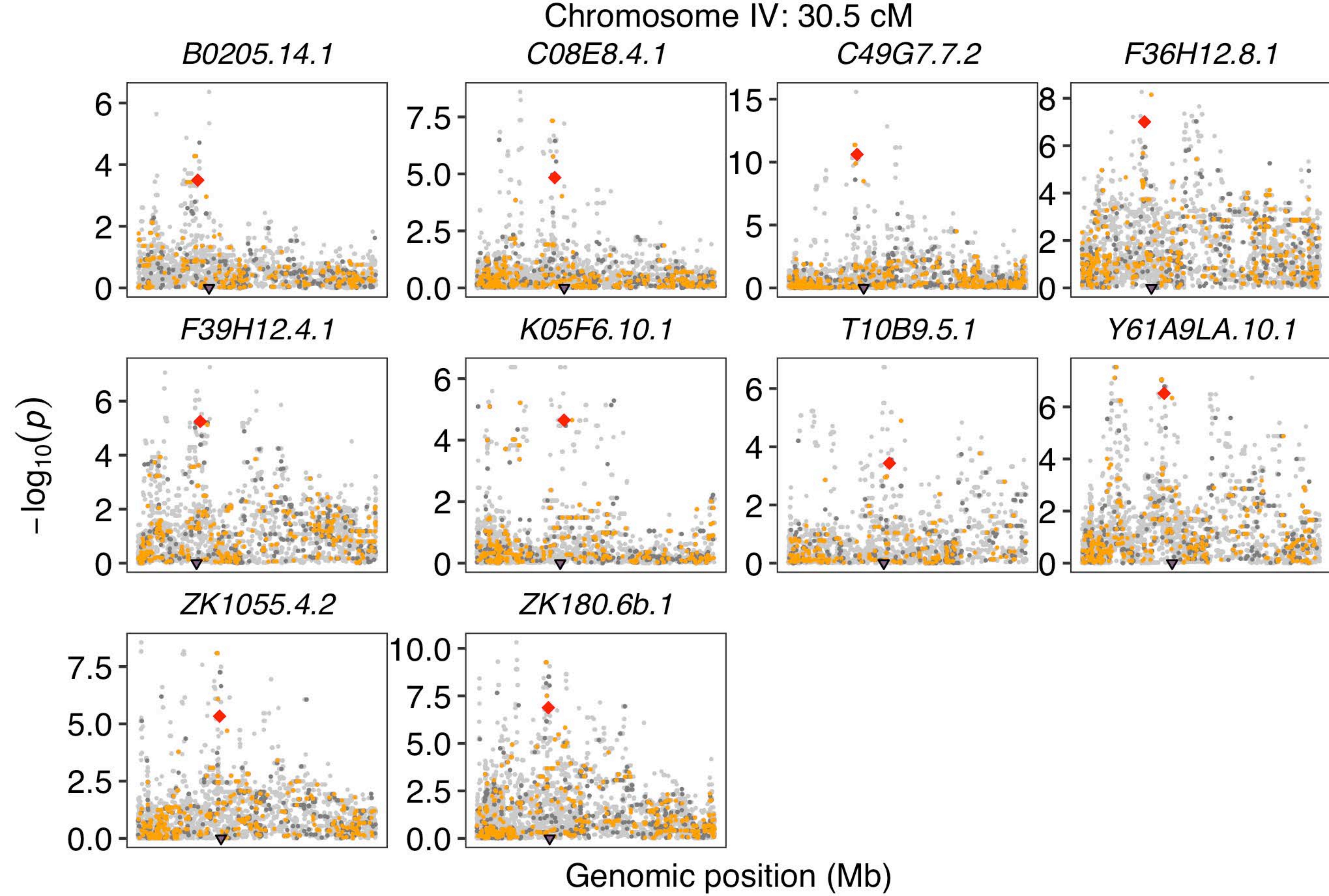
C56G2.4.1

Y56A3A.7a.1

ZK678.8.1

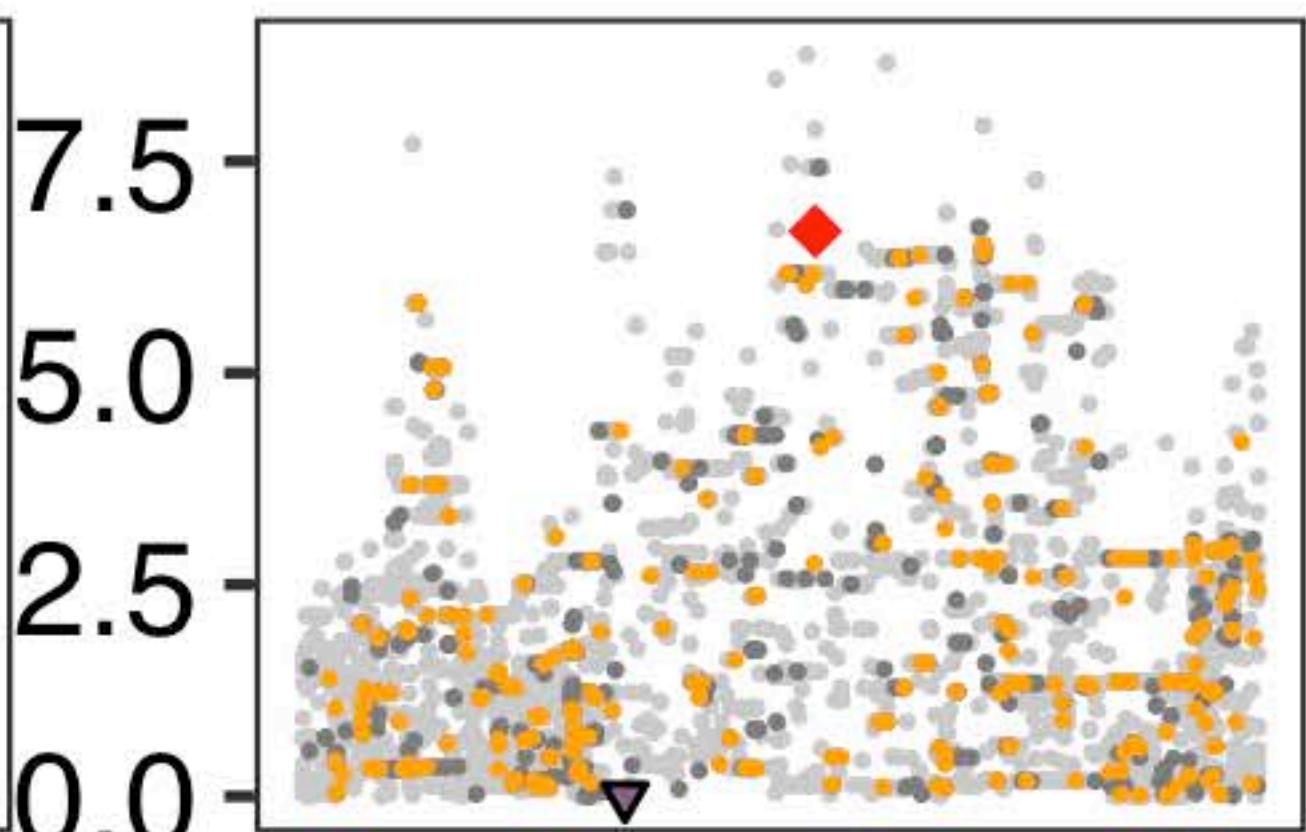
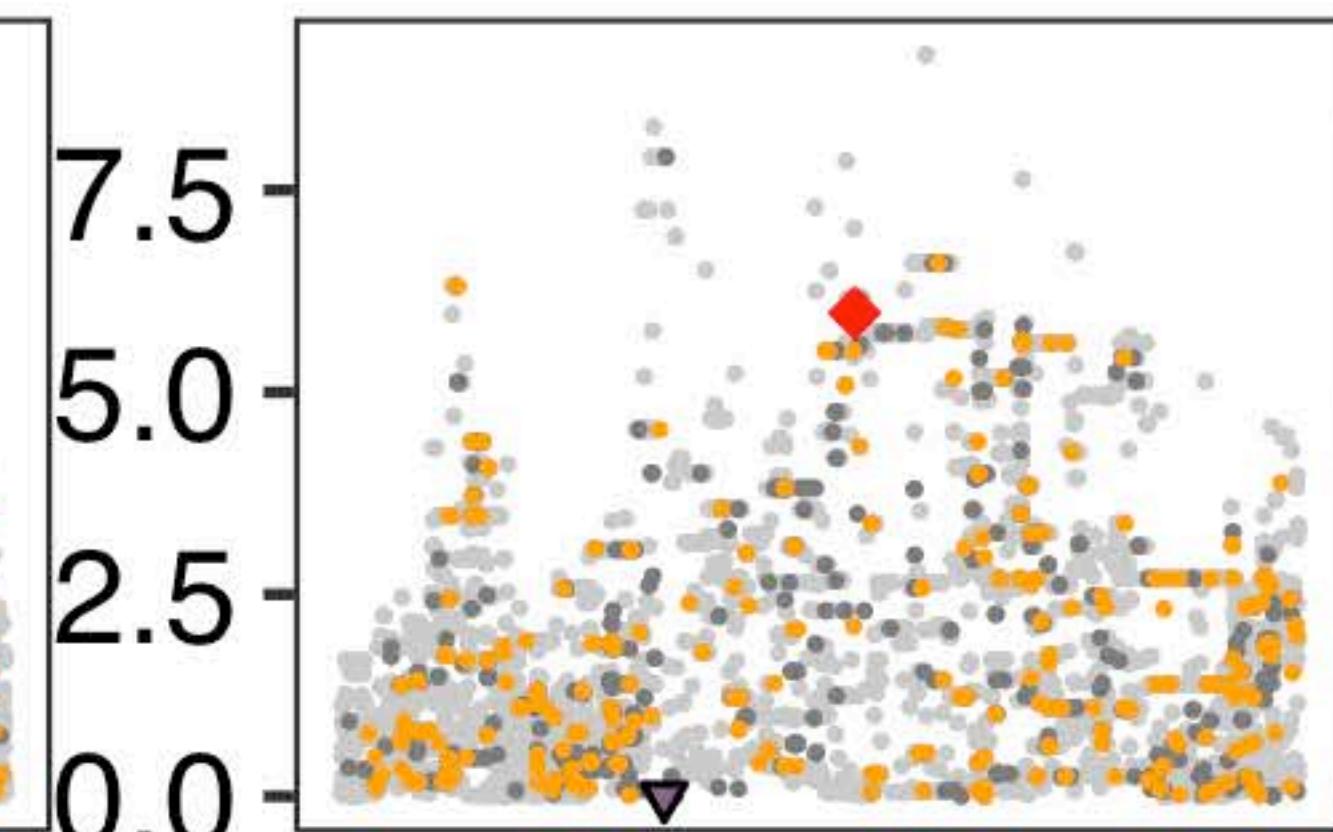
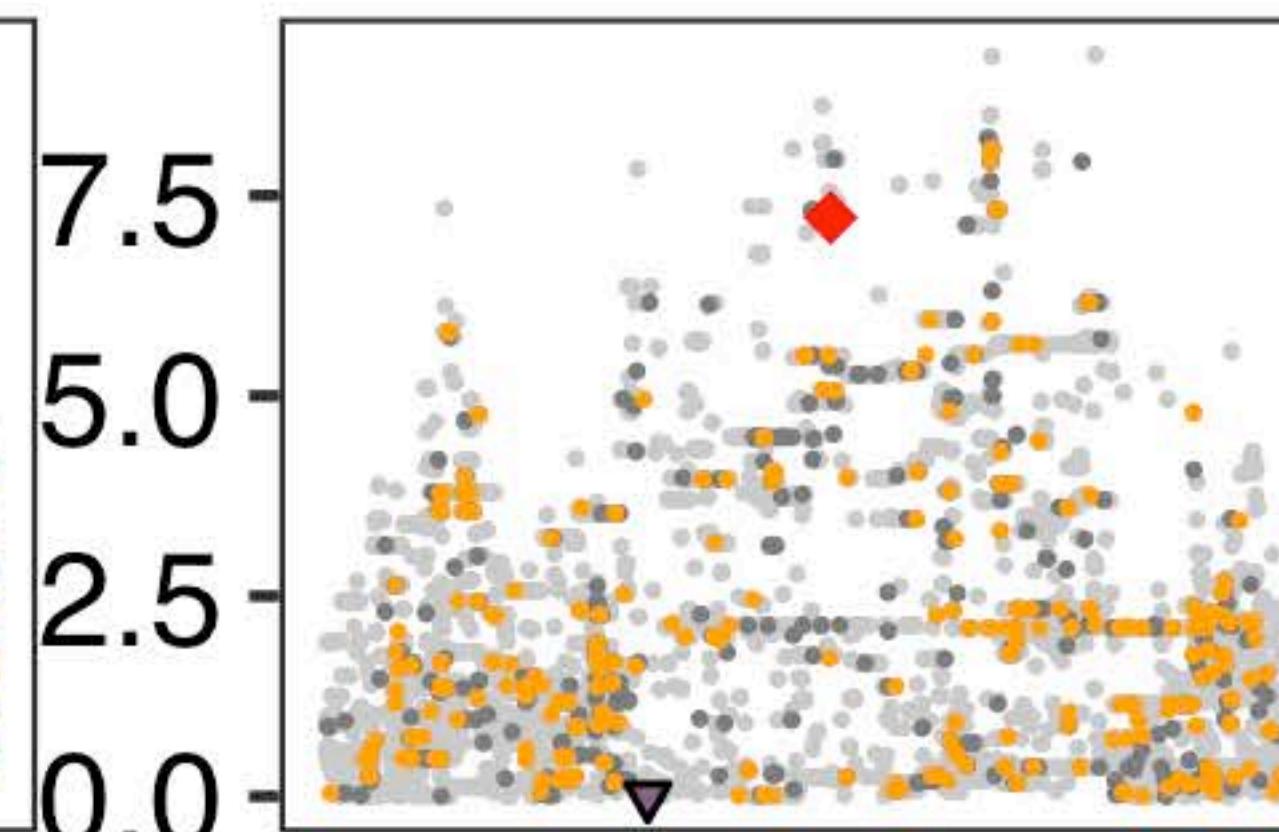
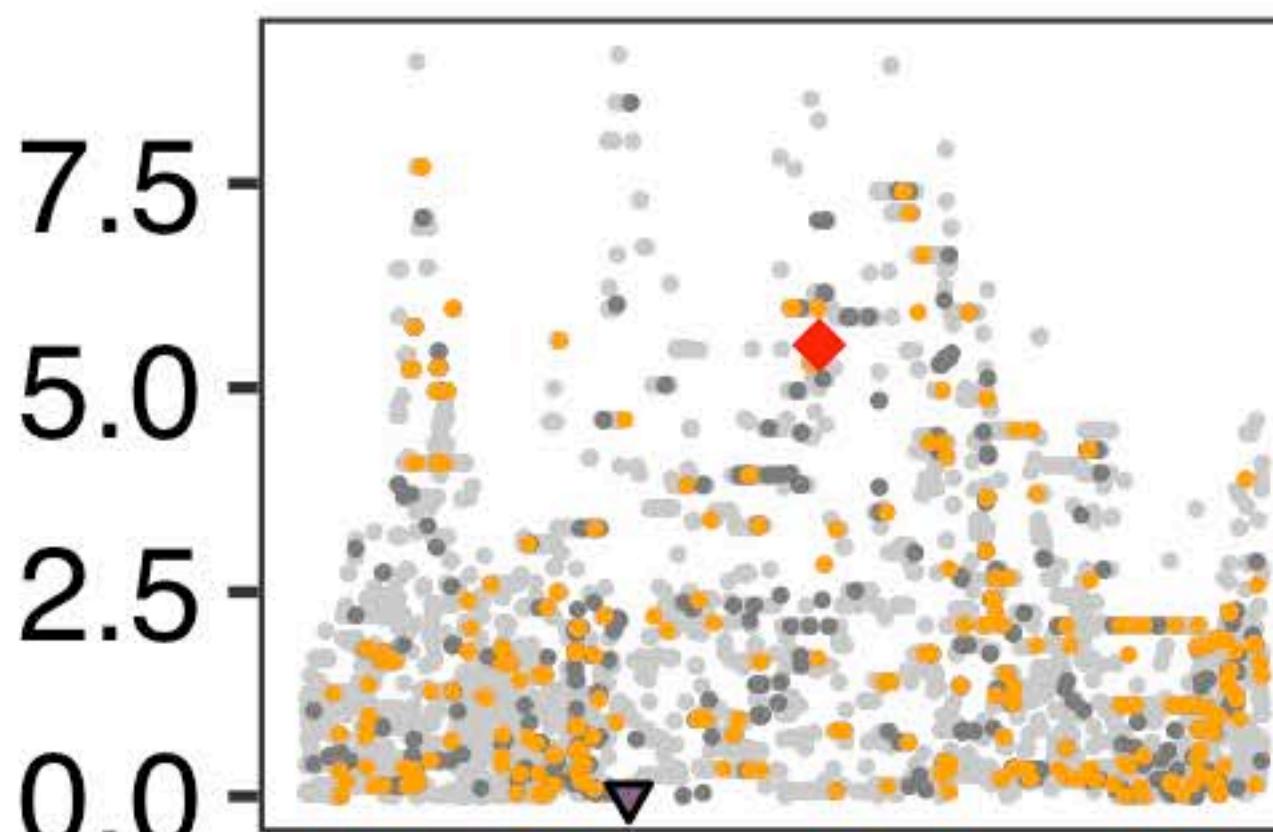
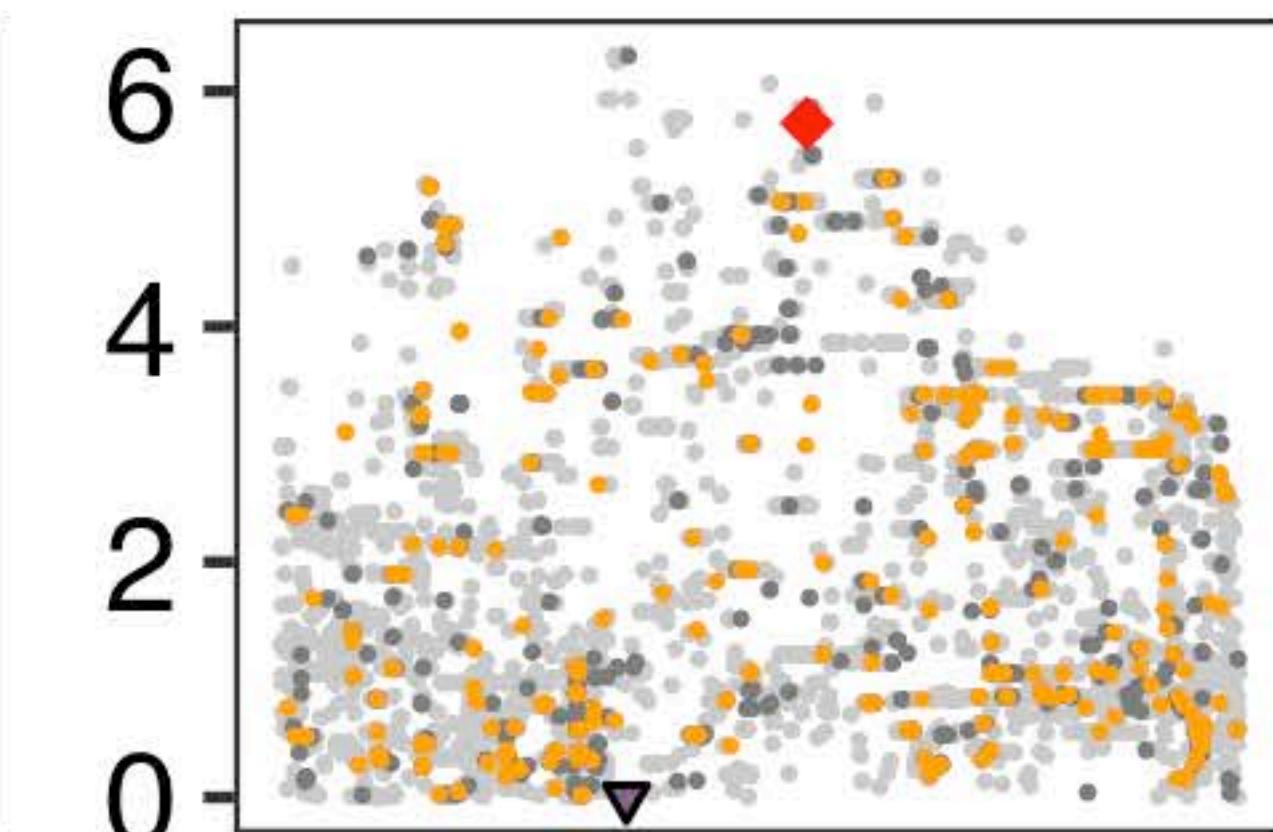
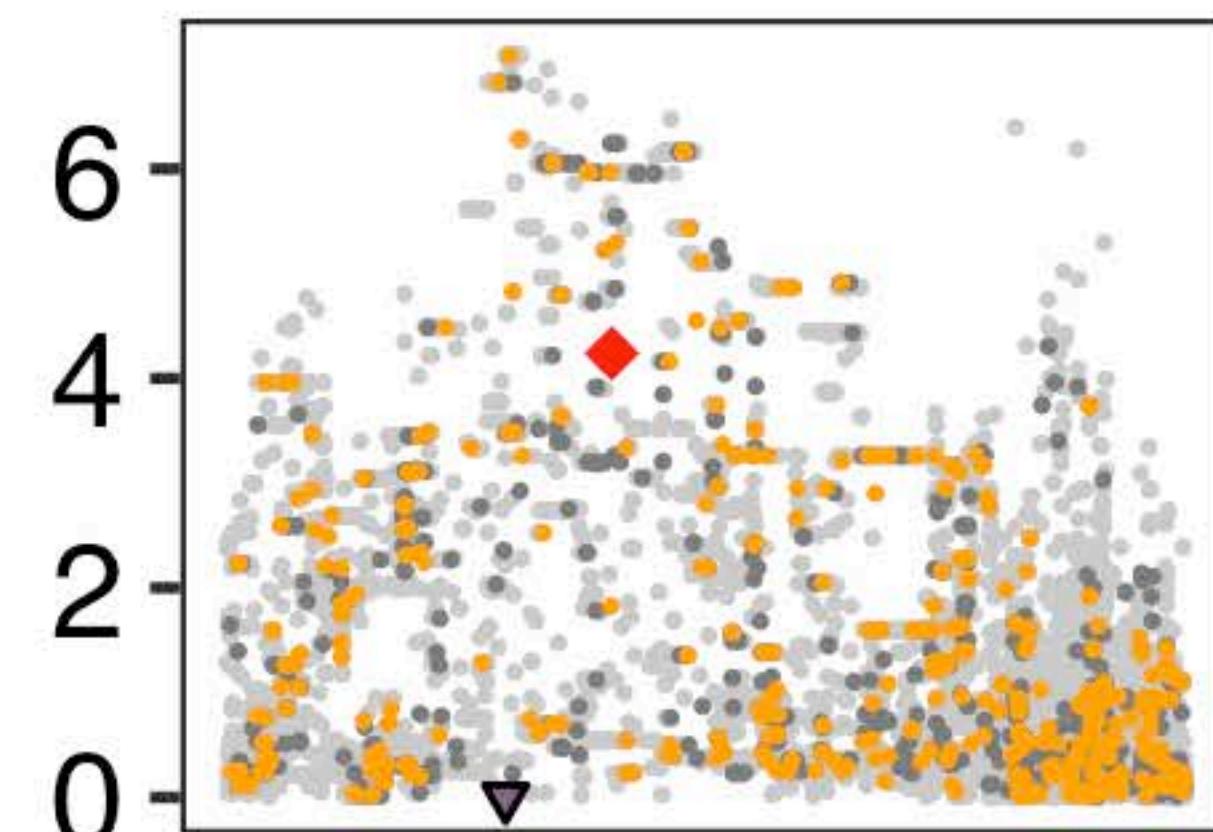
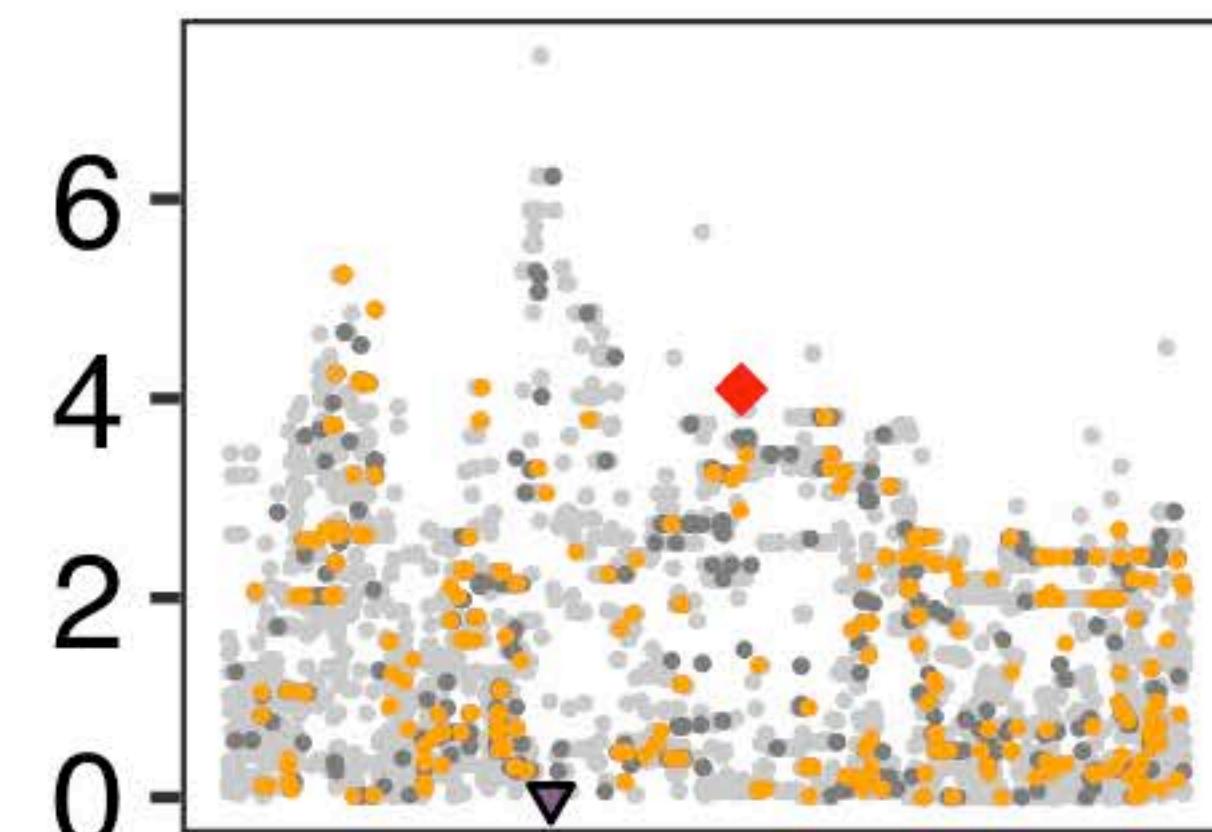


Candidate genes ◆ *jmjd-1.2*



Candidate genes ◆ *hil-2*

Chromosome IV: 31 cM

*C08F8.15.1**C33F10.13.1**R08C7.13.1**T14G12.4a.1* $-\log_{10}(p)$ *Y55B1BR.3.2**Y69E1A.2.2**Y73C8C.8.1*

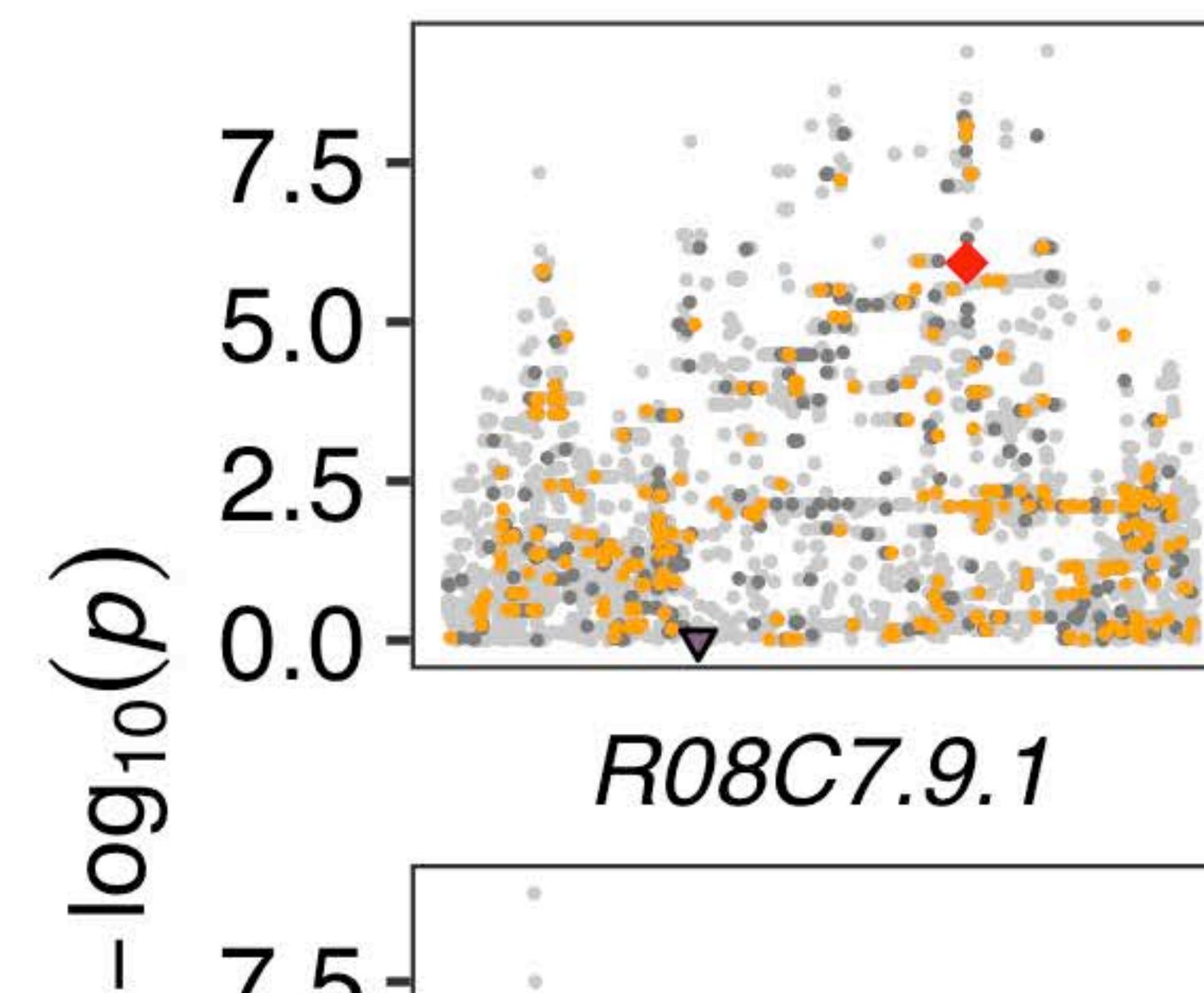
Genomic position (Mb)

Candidate genes

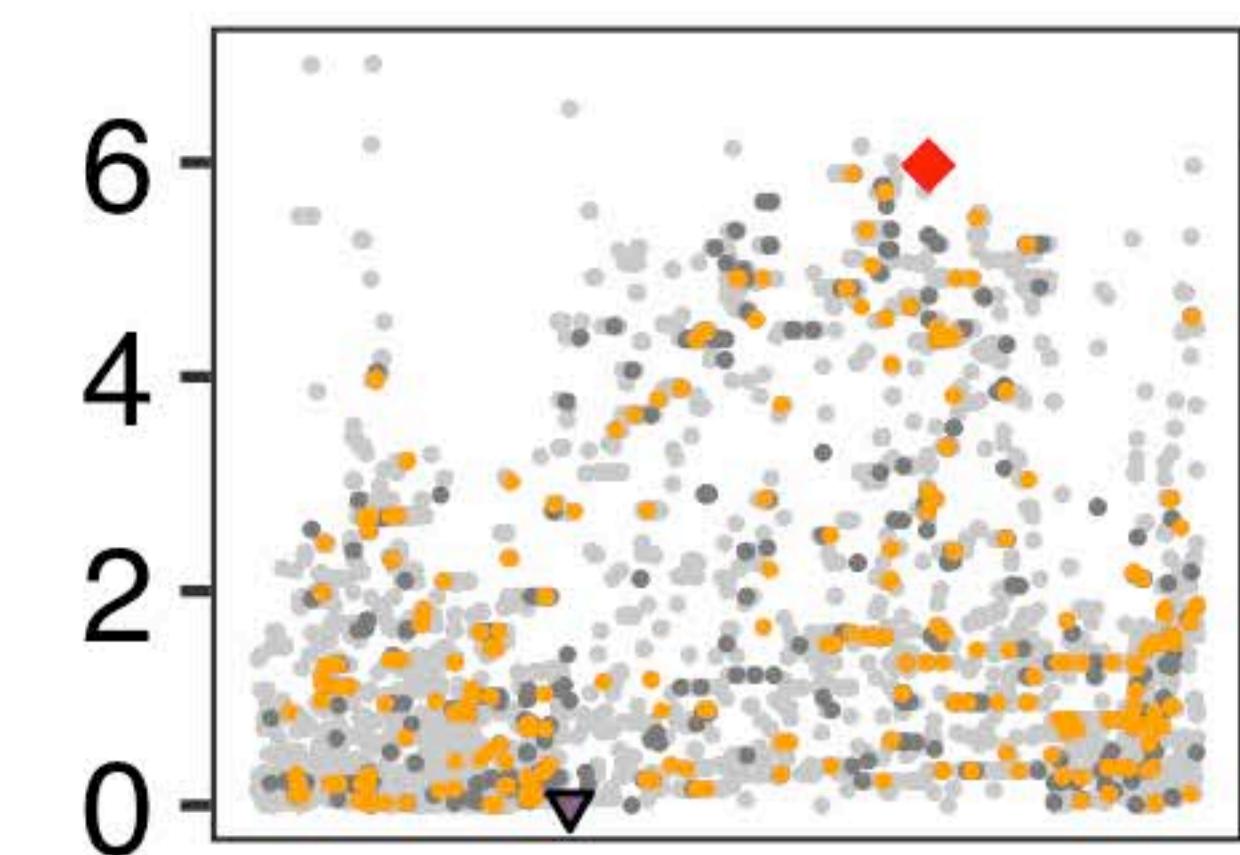
◆ *nhr-264*

Chromosome IV: 31 cM

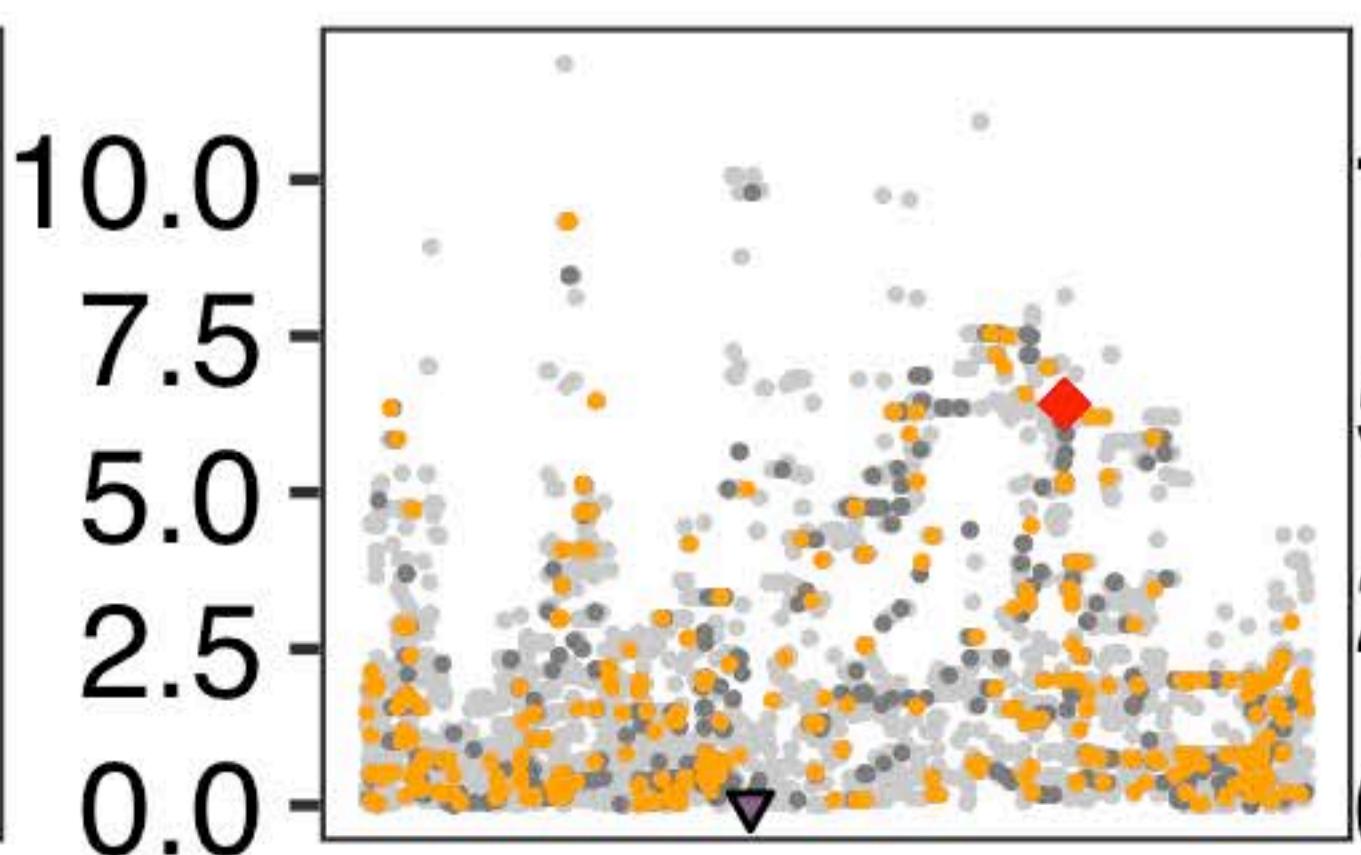
C33F10.13.1



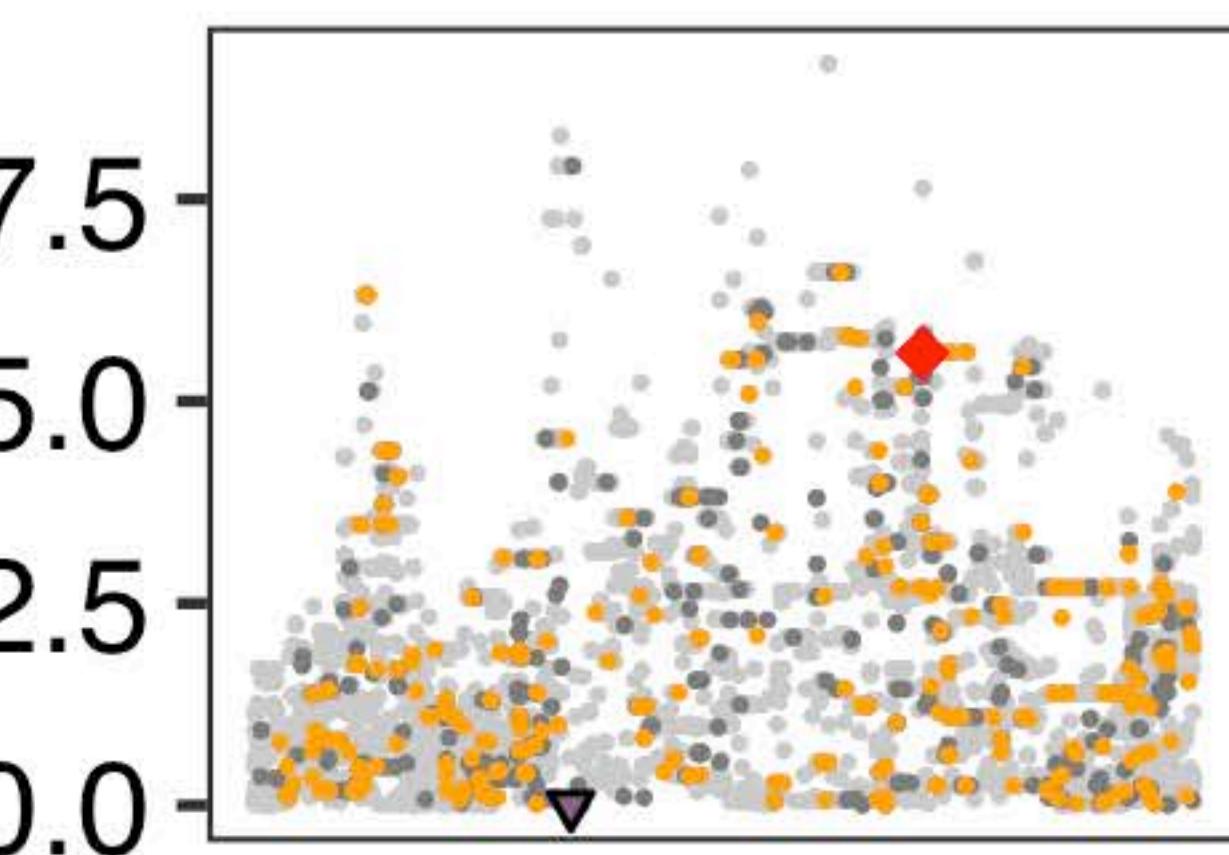
F45H11.1b.2



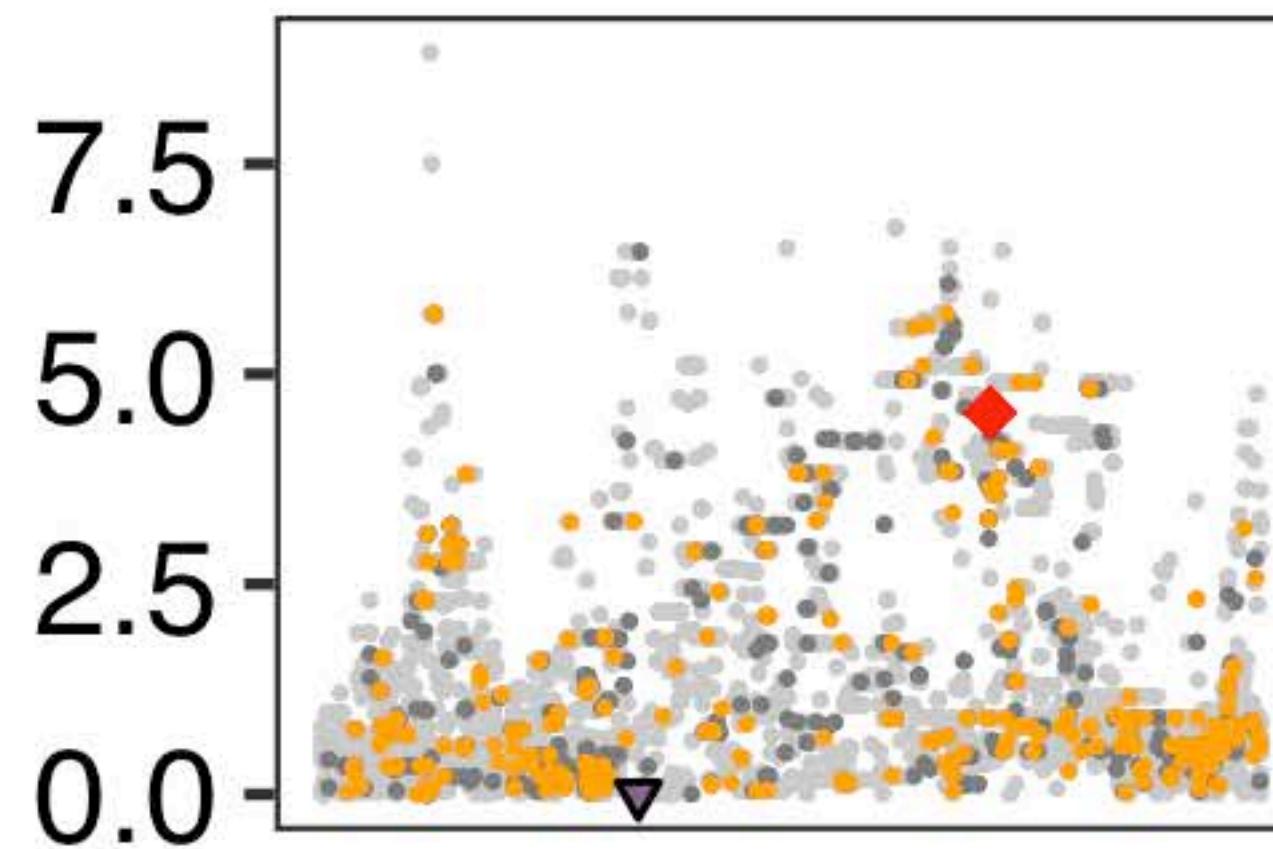
F56A12.1.1



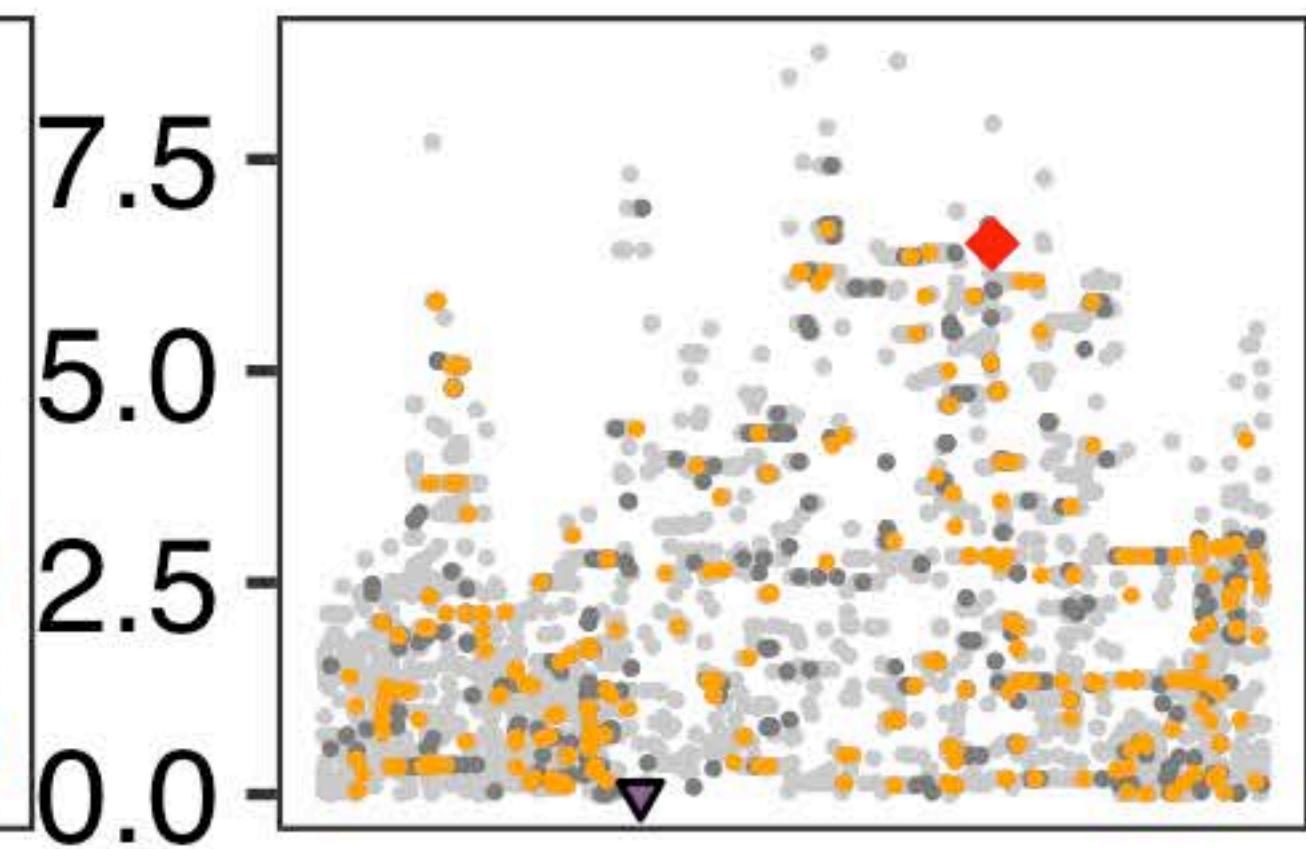
R08C7.13.1



R08C7.9.1



T14G12.4a.1



Genomic position (Mb)

Candidate genes *zim-2*

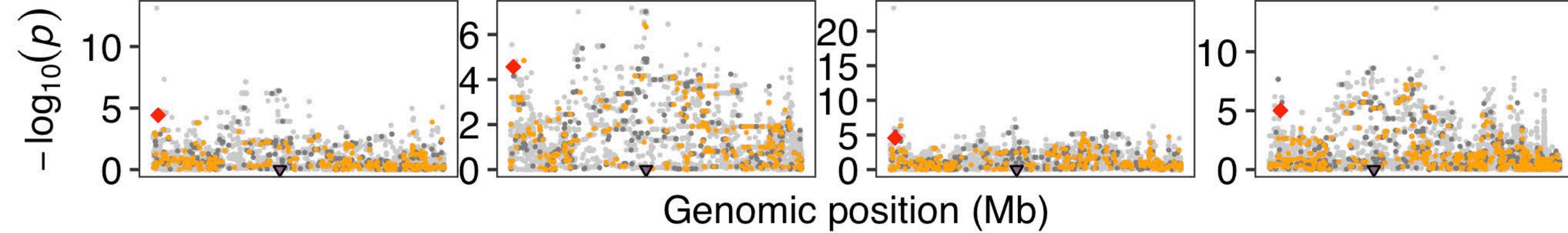
Chromosome IV: 31.5 cM

F44E5.4.1

F48E3.6.1

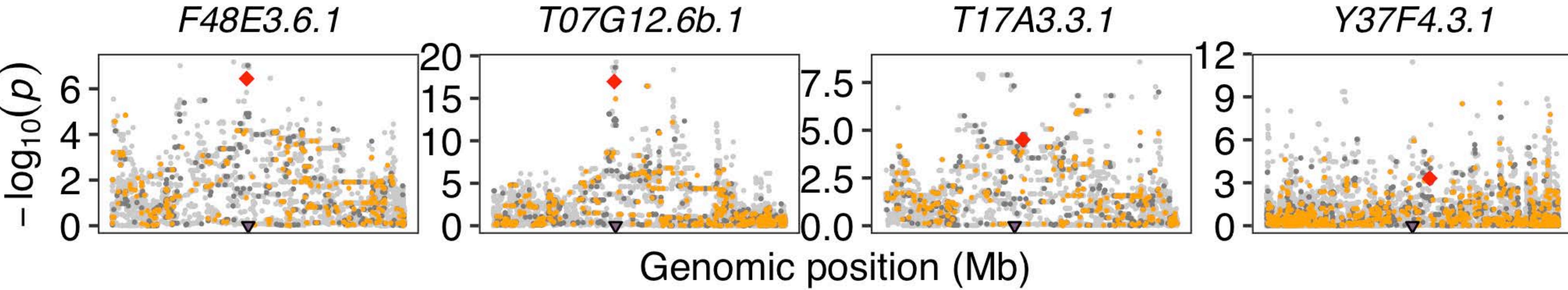
T27E4.2.1

W05F2.2



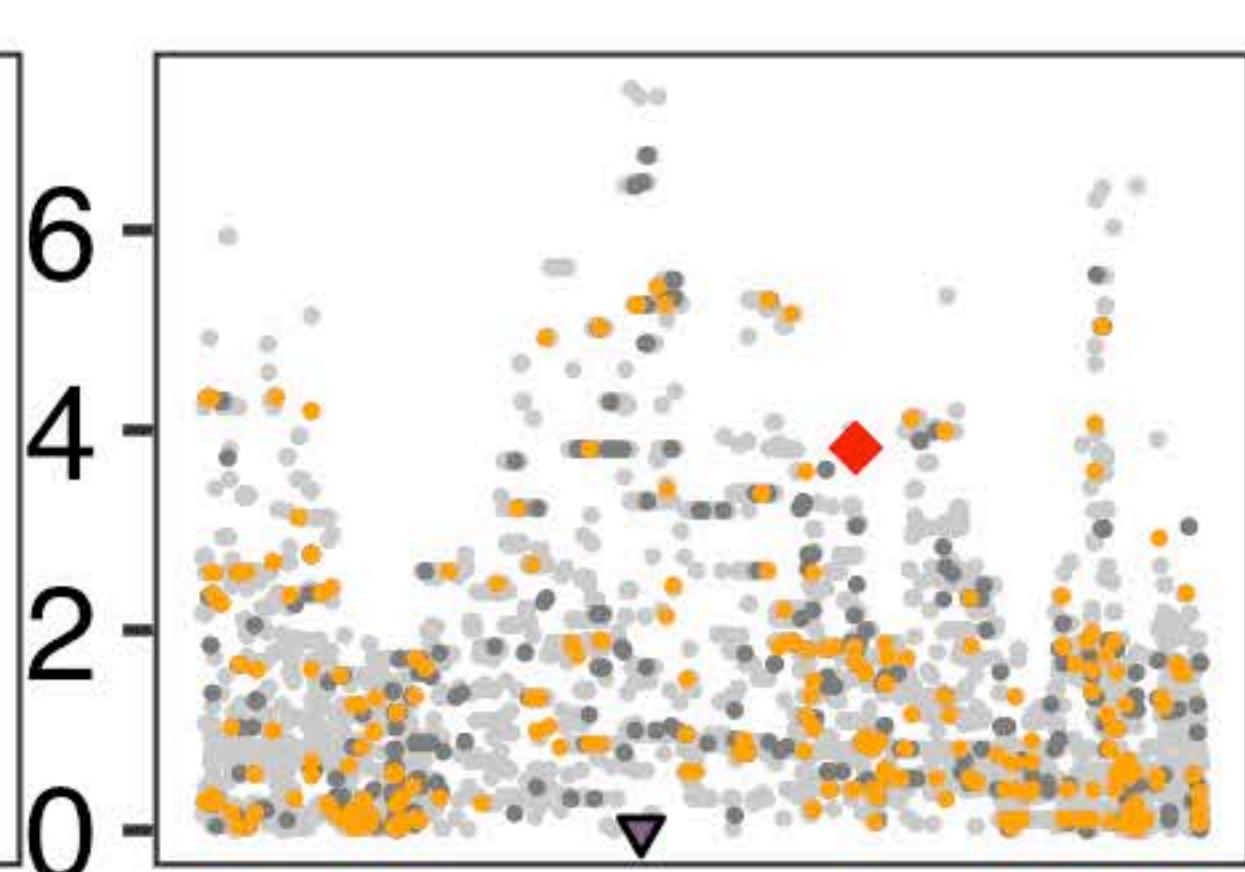
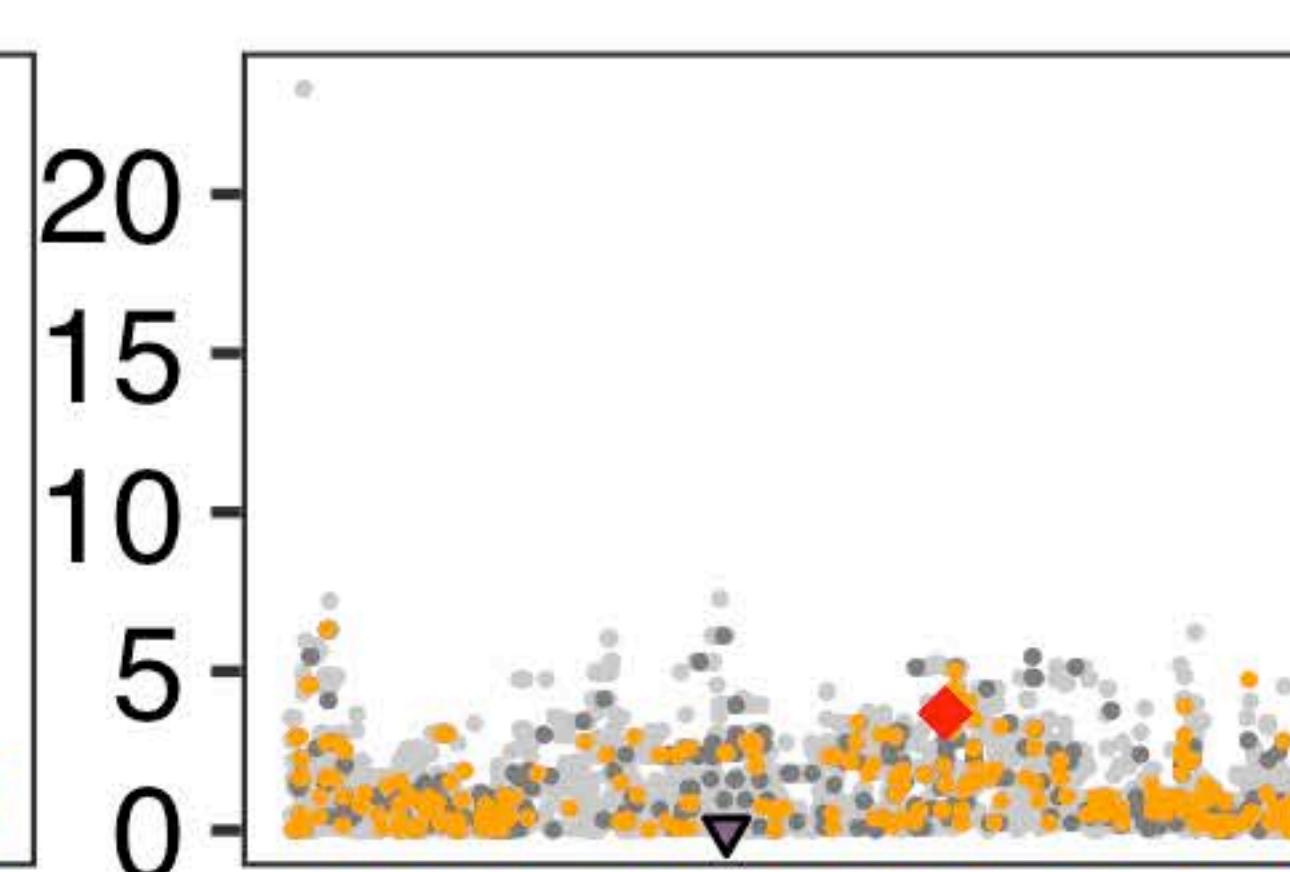
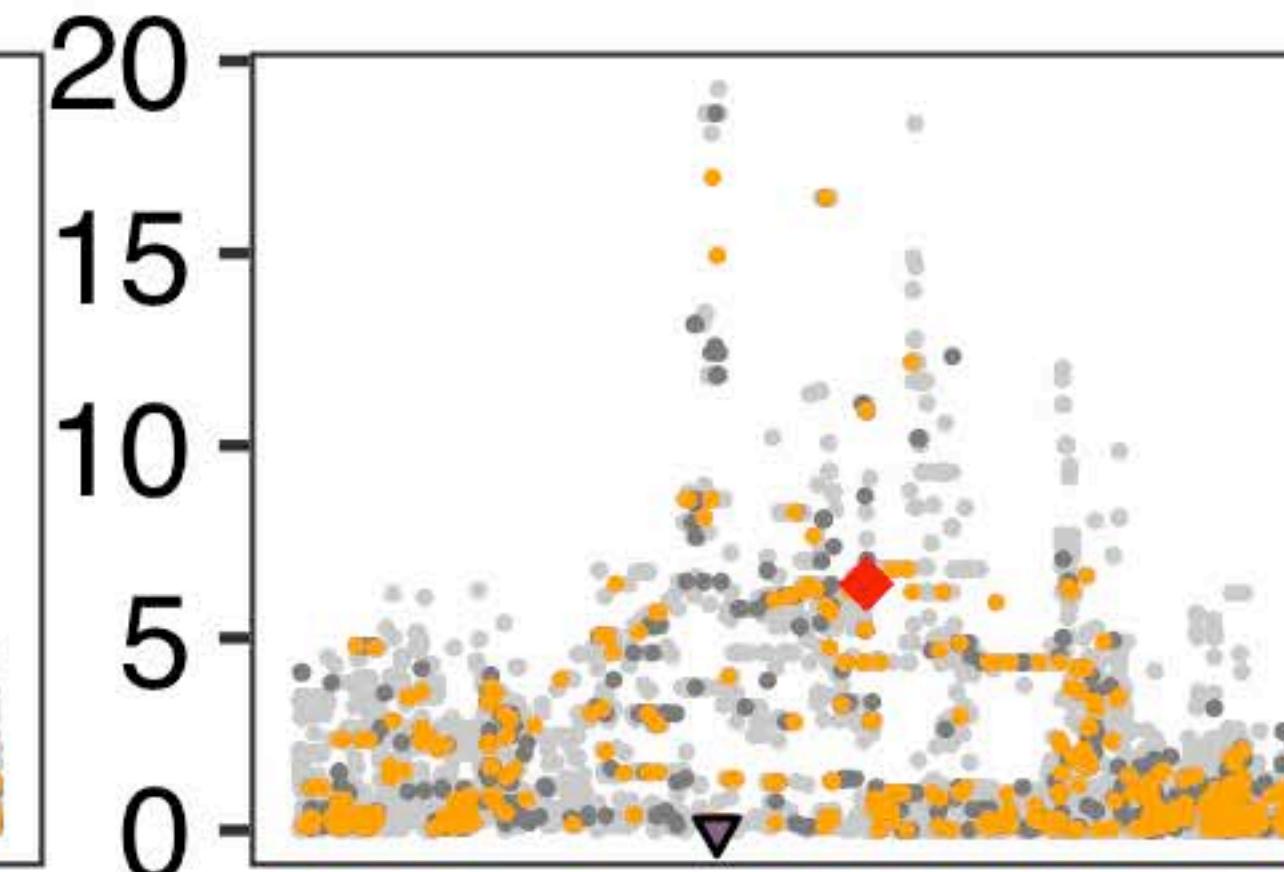
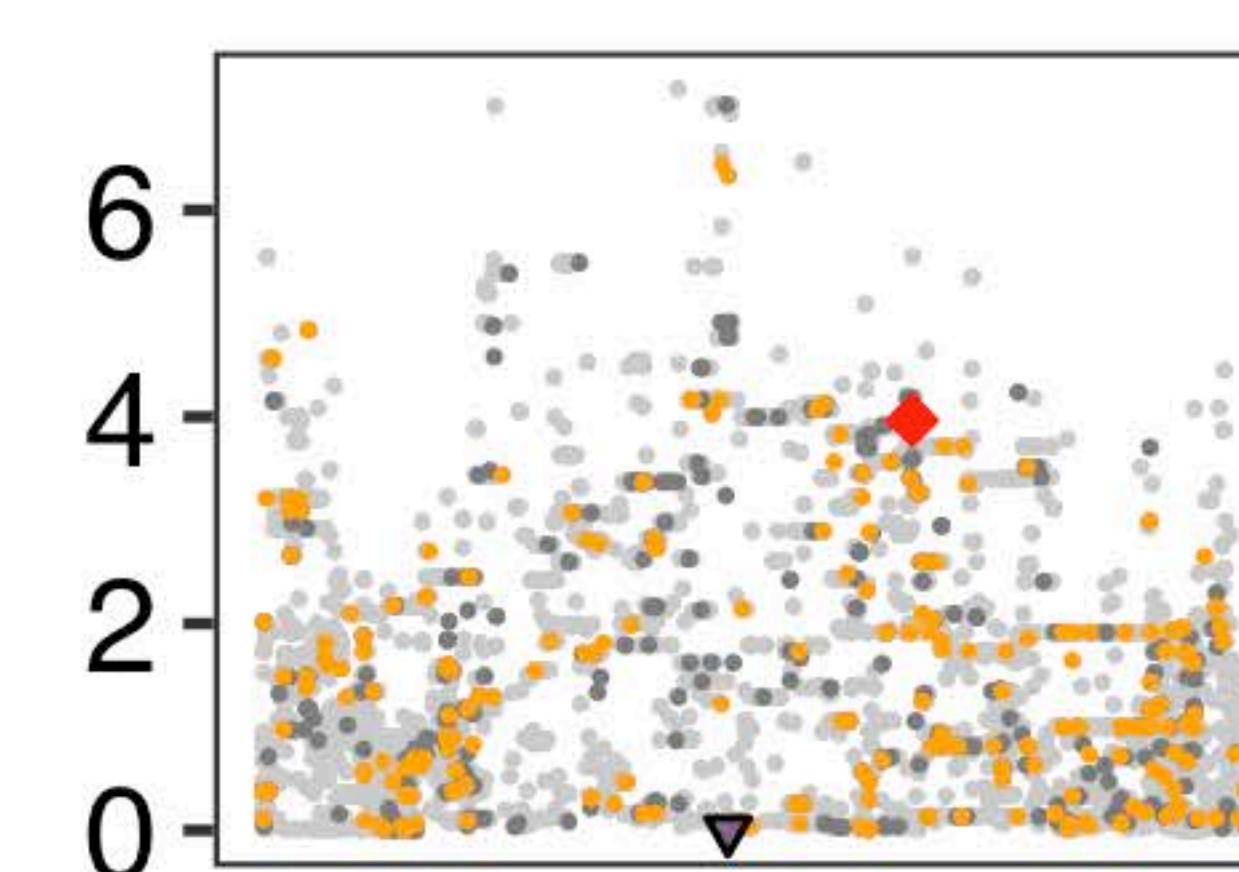
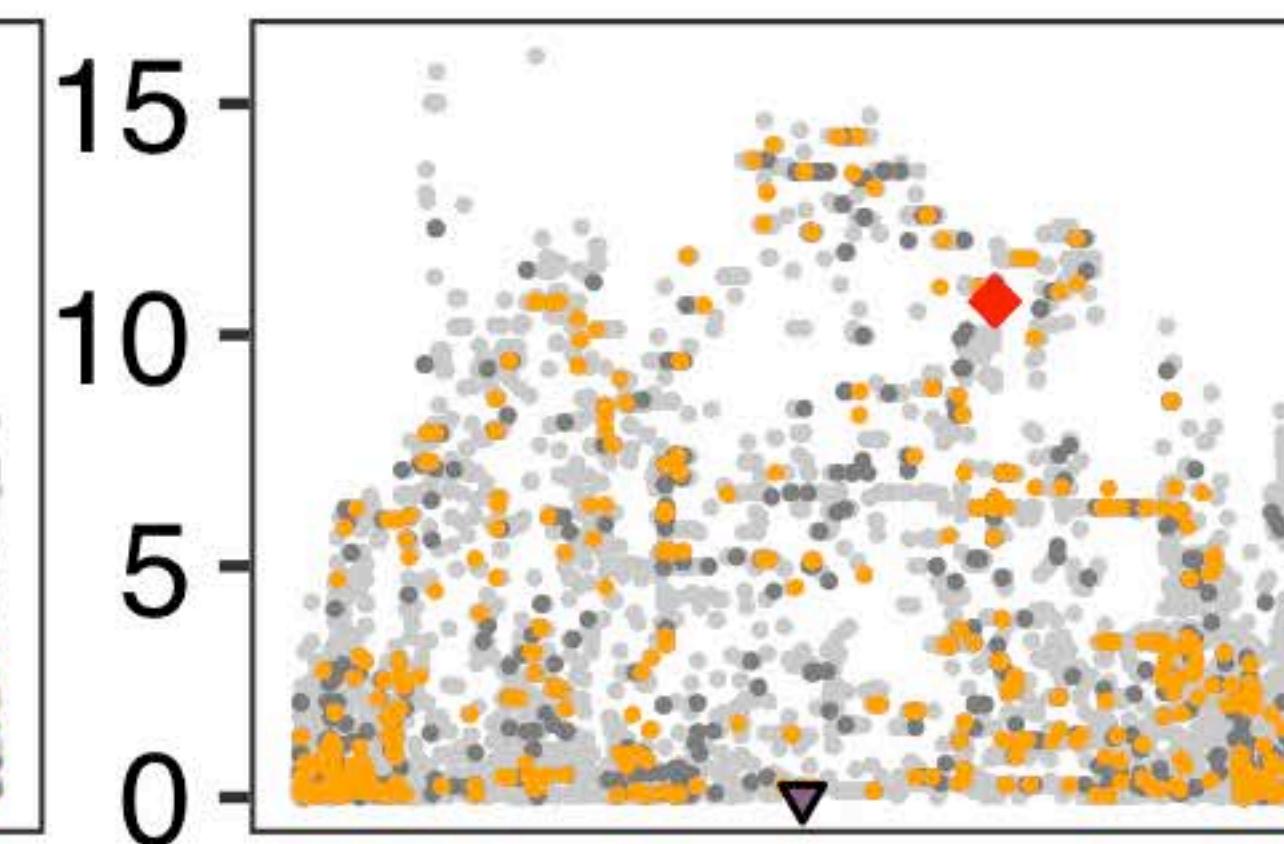
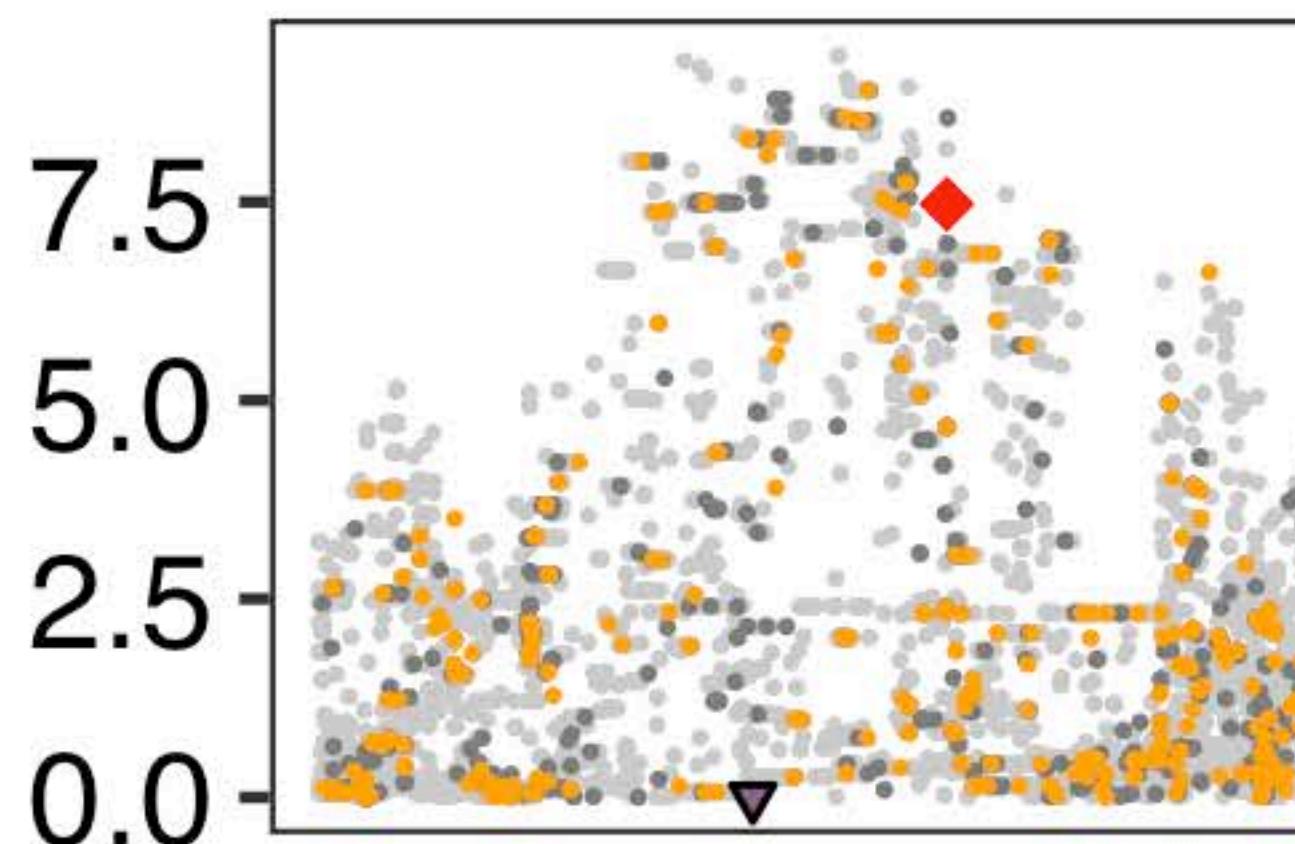
Candidate genes ◆ *hil-2*

Chromosome IV: 31.5 cM



Candidate genes ◆ *nhr-264*

Chromosome IV: 31.5 cM

*F48E3.6.1**T07G12.6b.1**T27E4.2.1**Y47D7A.2.1* $-\log_{10}(p)$ *Y69E1A.2.1**ZK354.1.1*

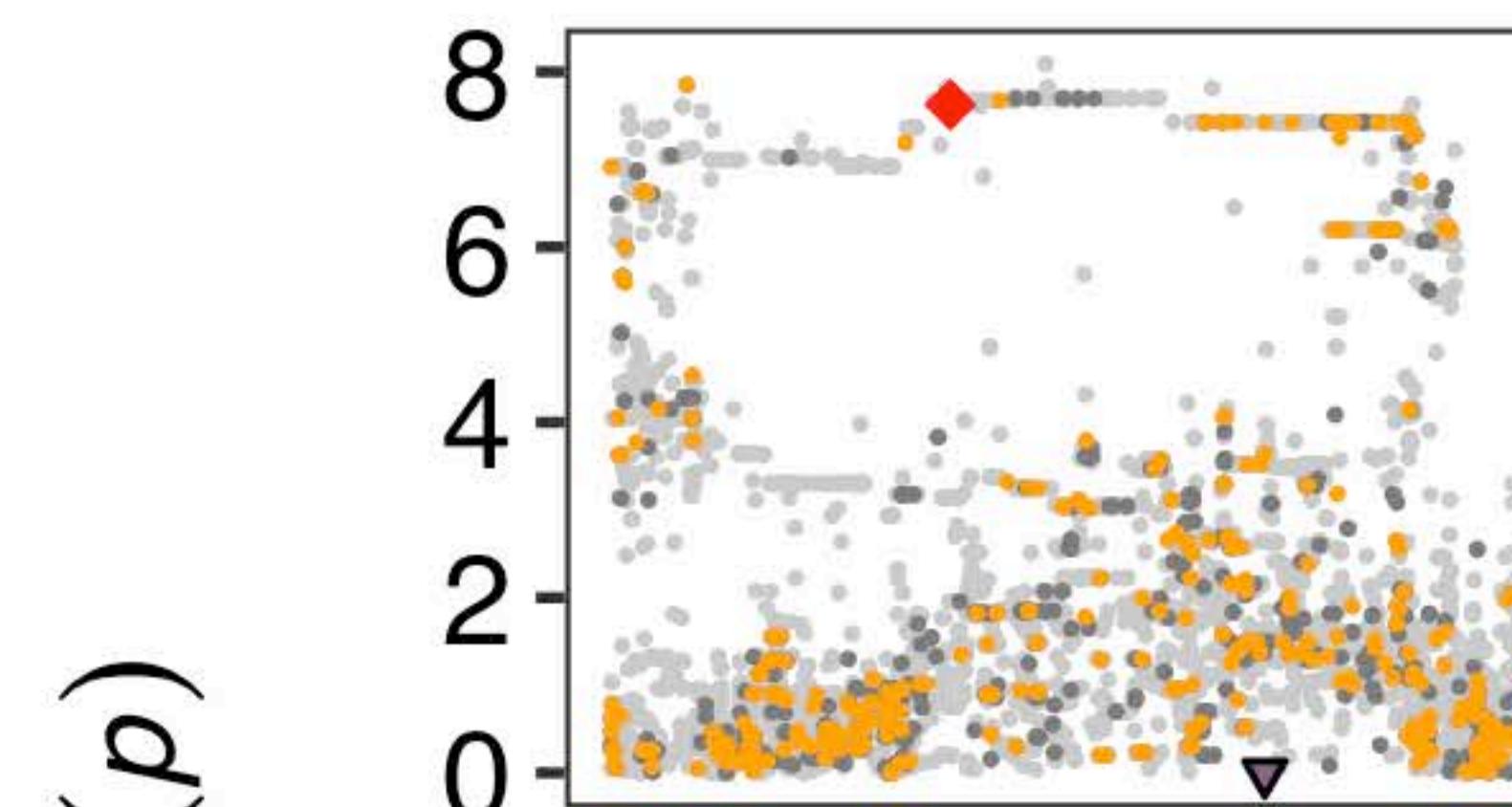
Genomic position (Mb)

Candidate genes

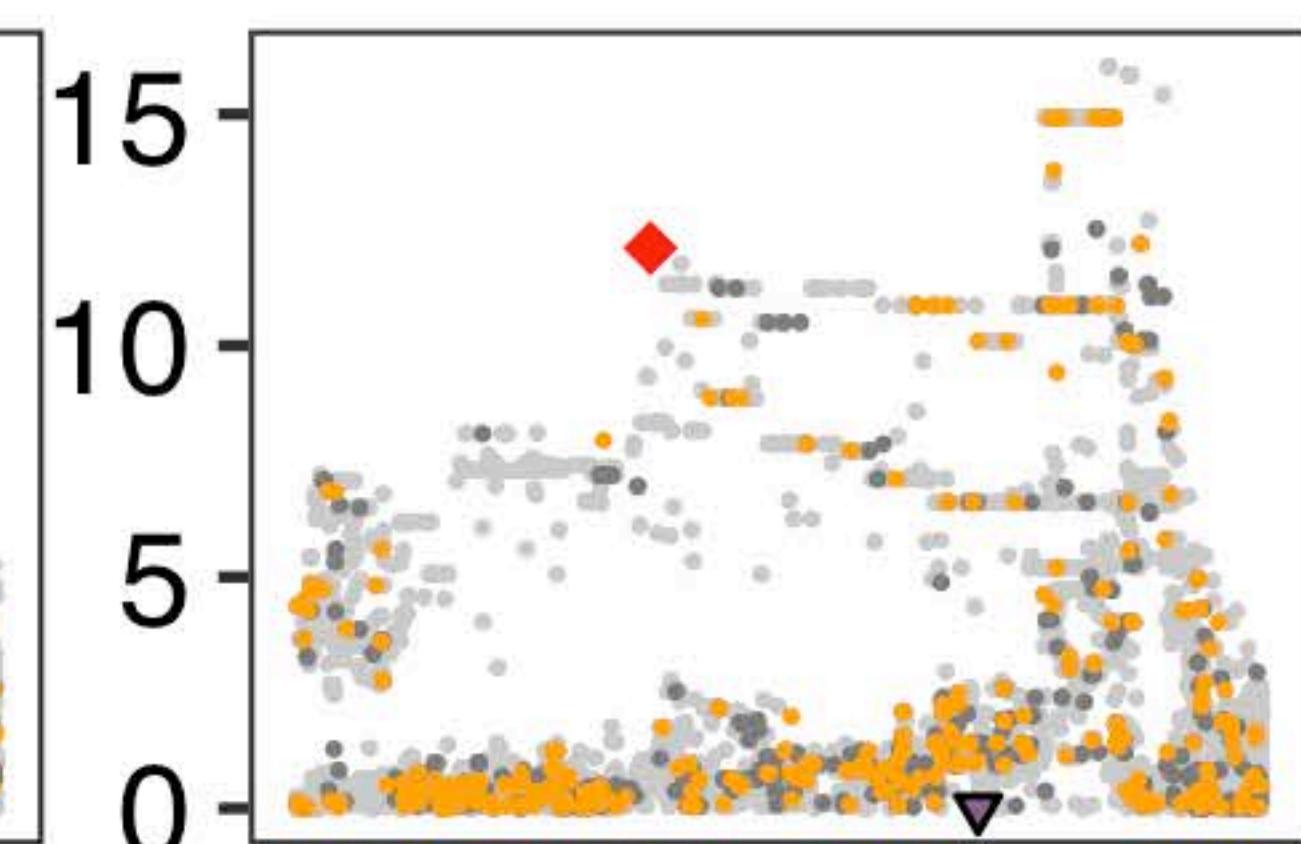
◆ *zim-2*

Chromosome IV: 32.5 cM

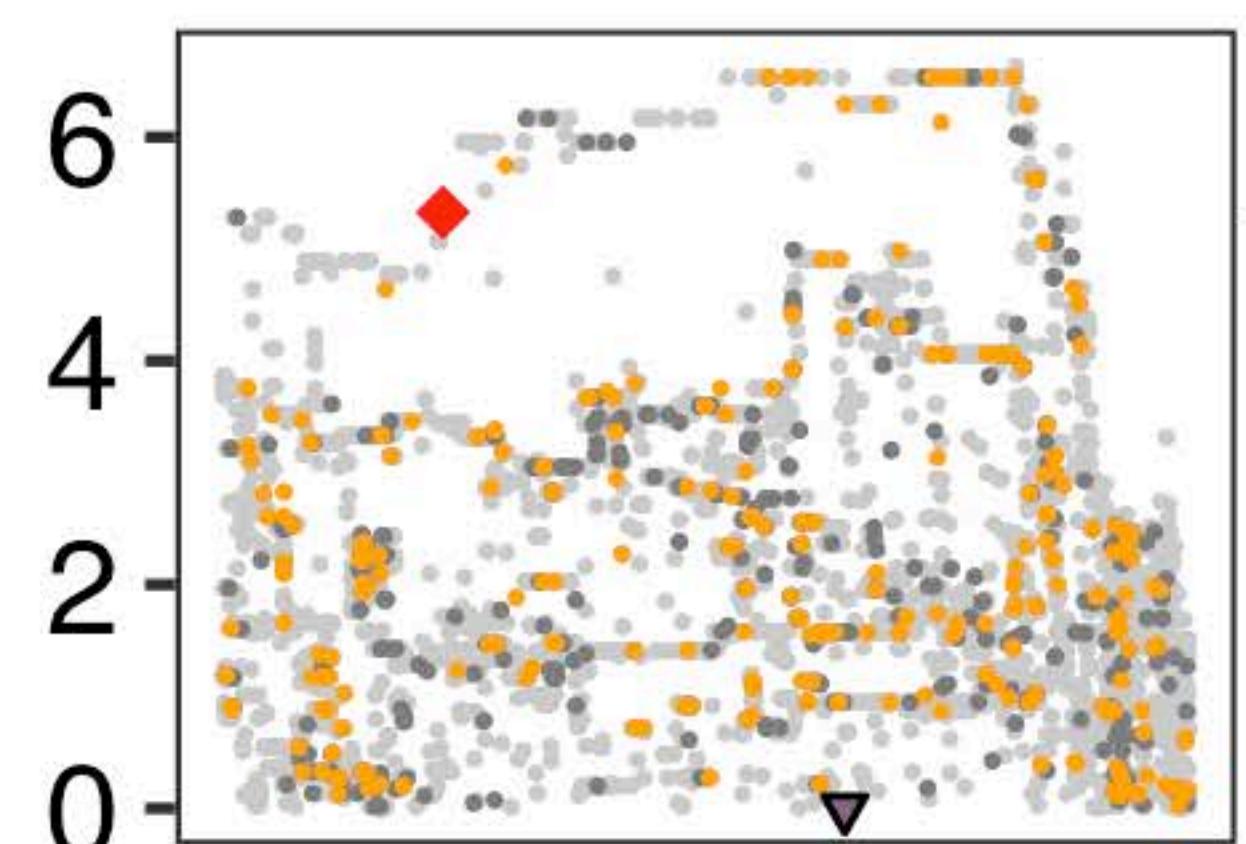
C05D12.5.1



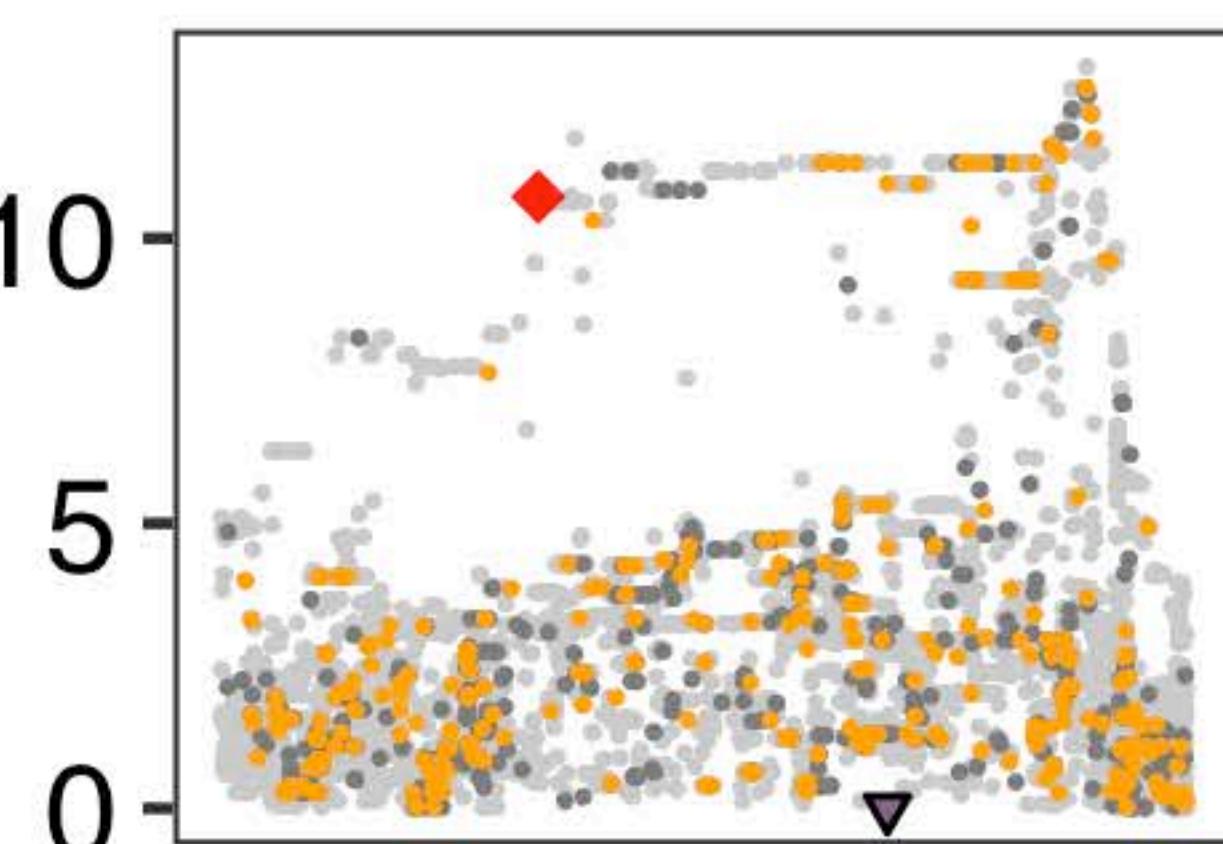
F42A9.6c.1



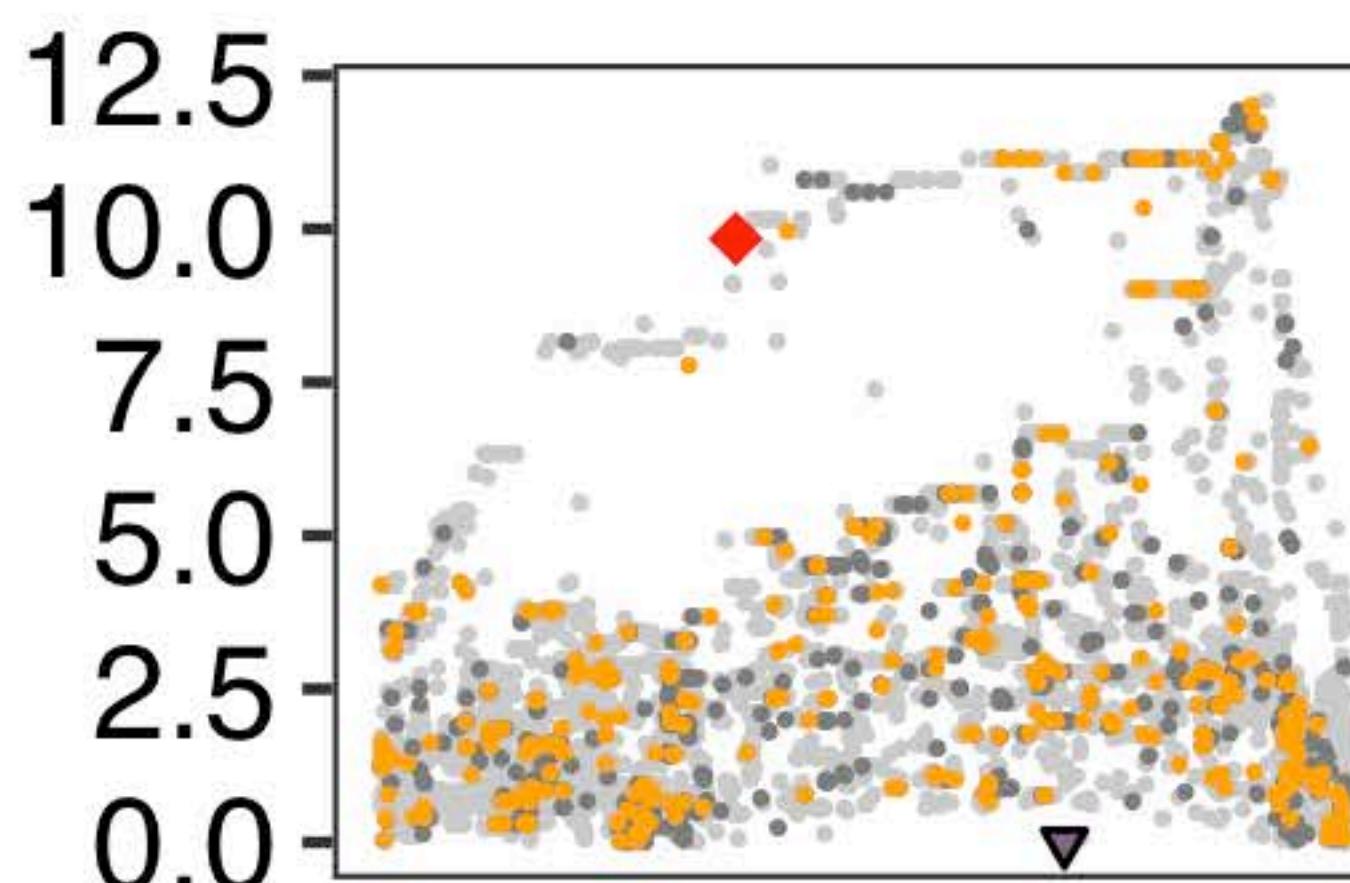
MTCE.4.1



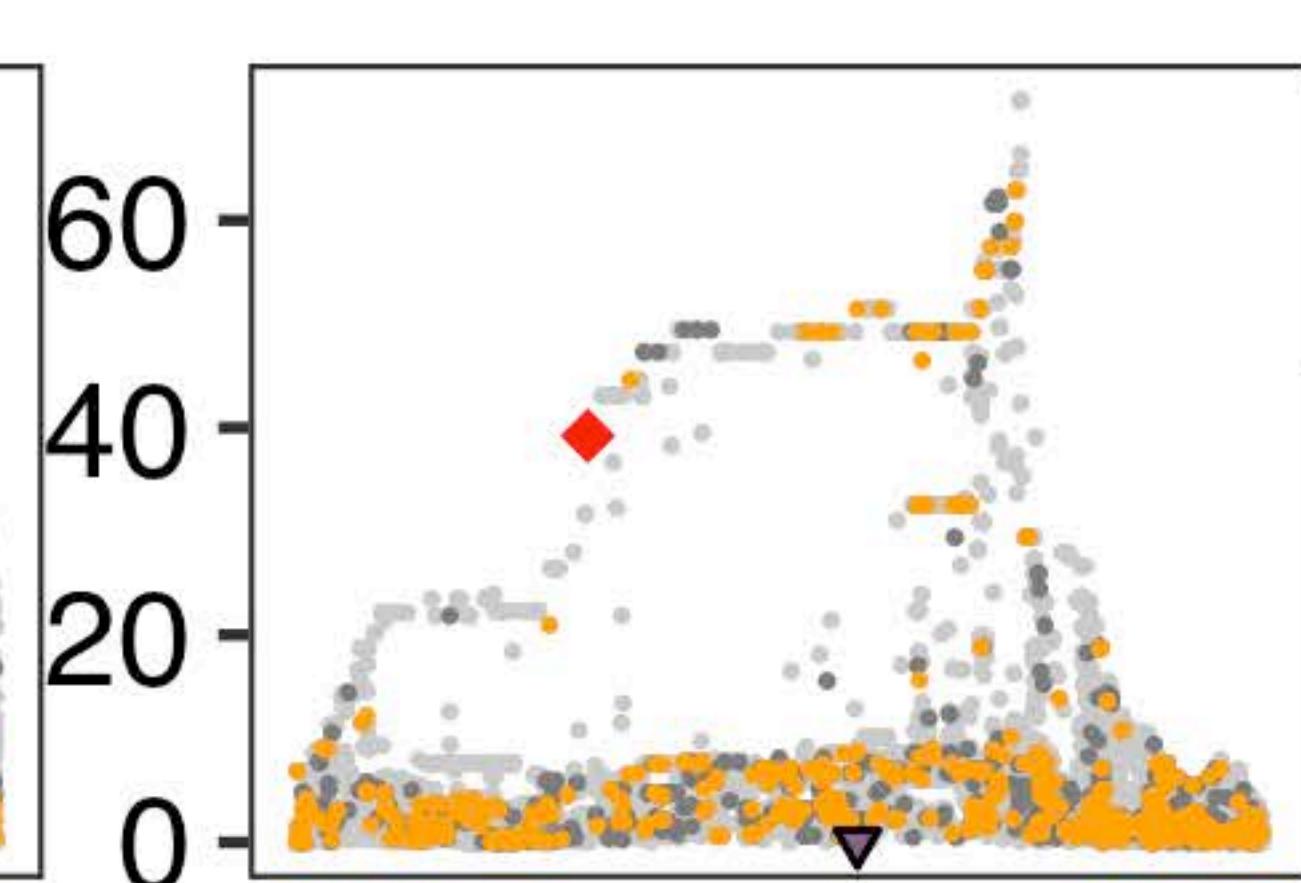
T04A11.1.1



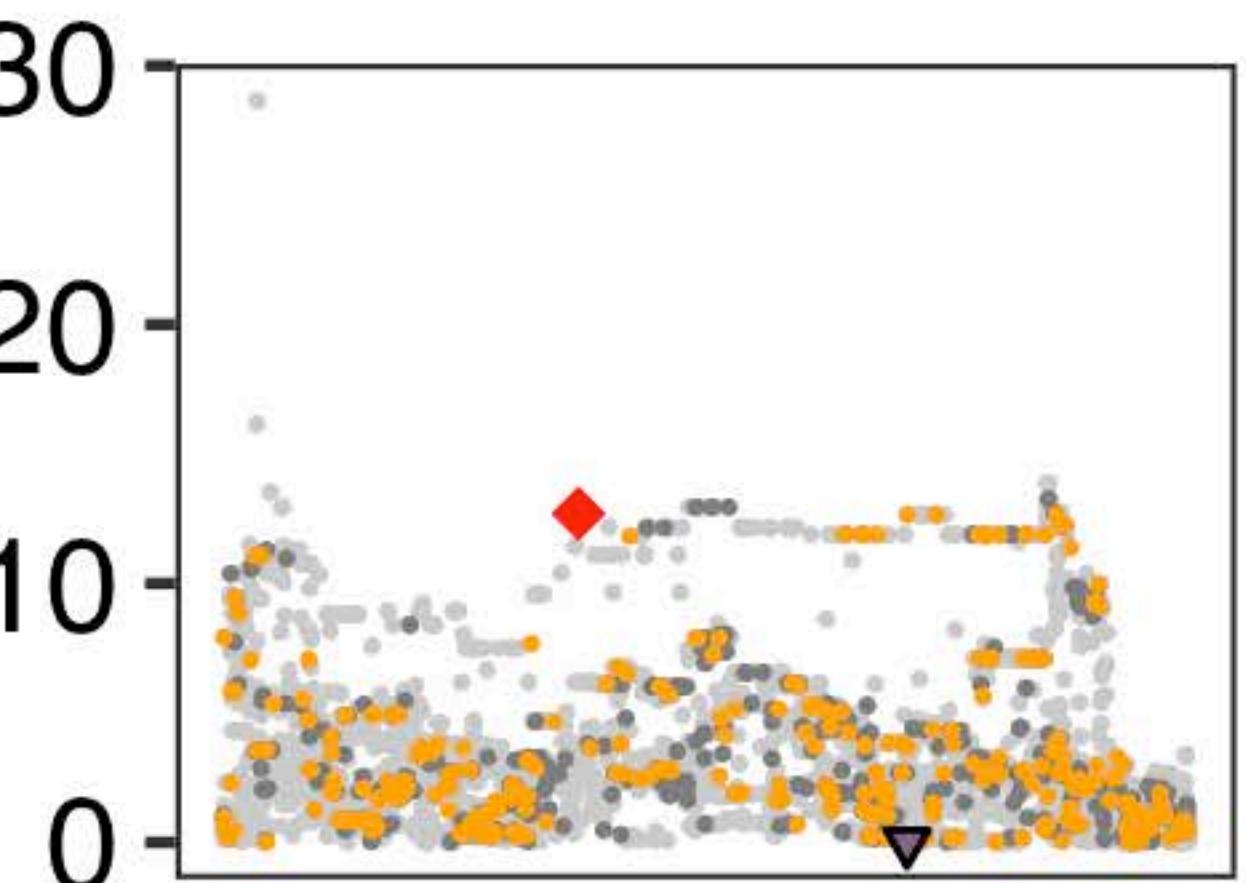
T04A11.4.1



T23B5.4b.1



Y59E9AL.2.1

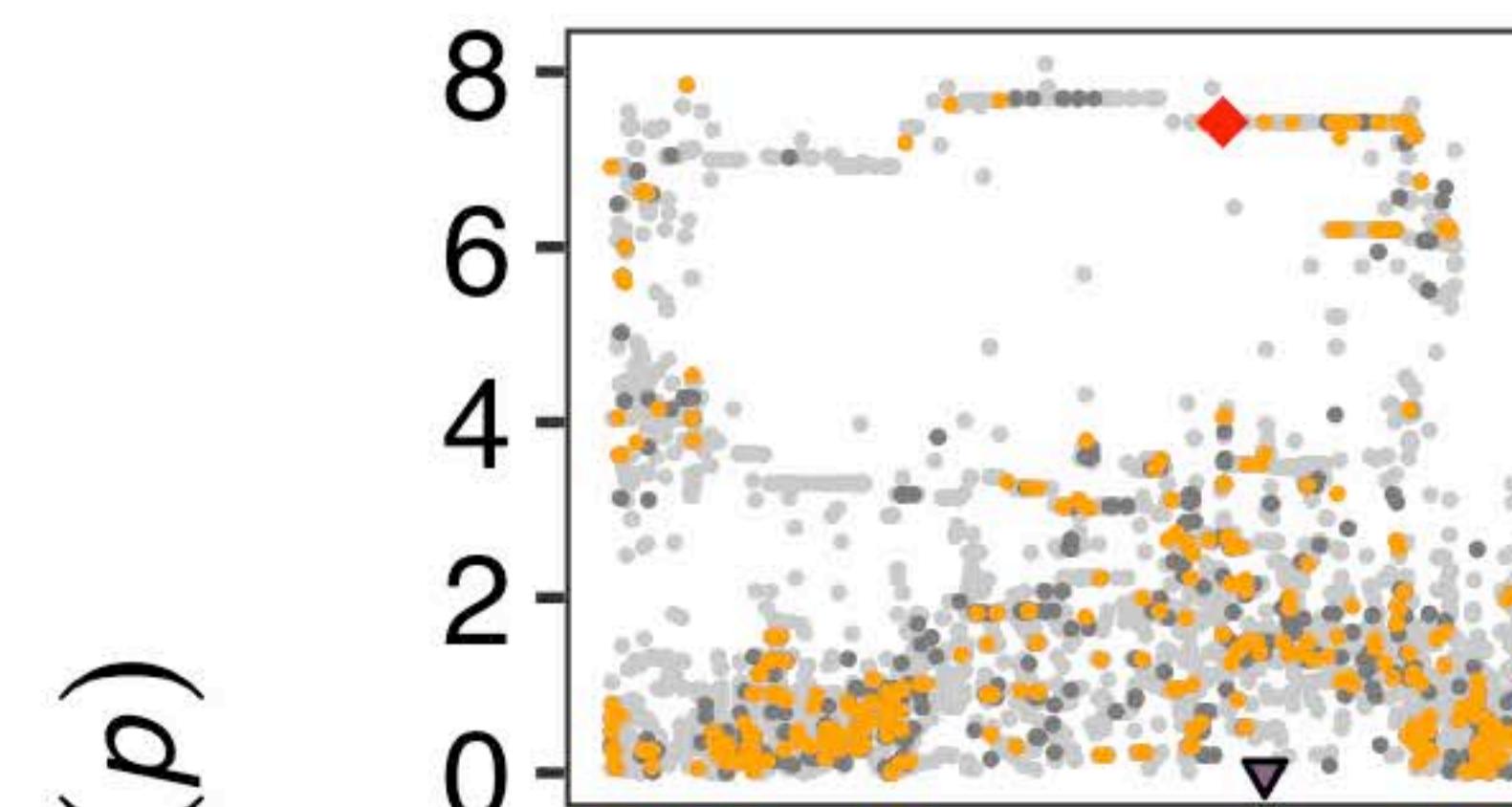
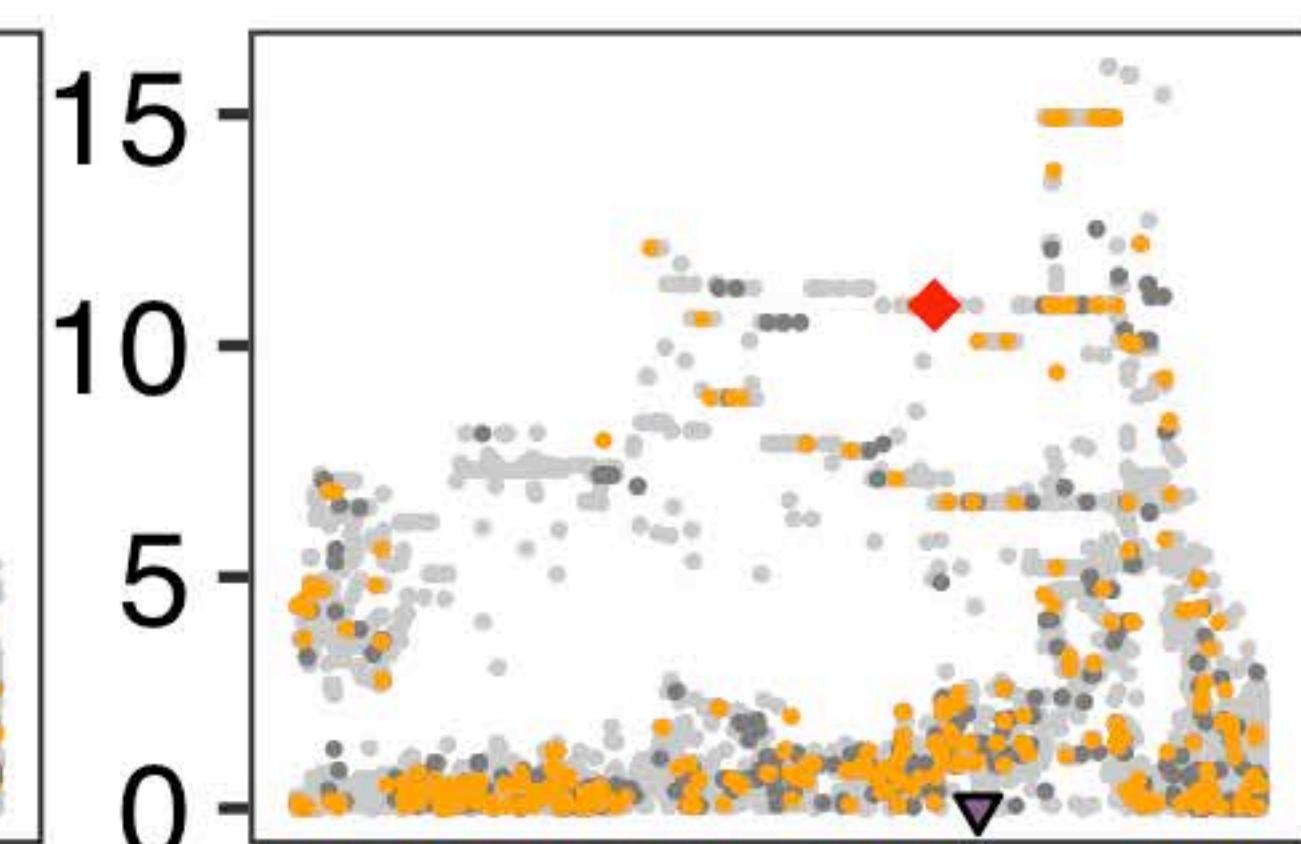
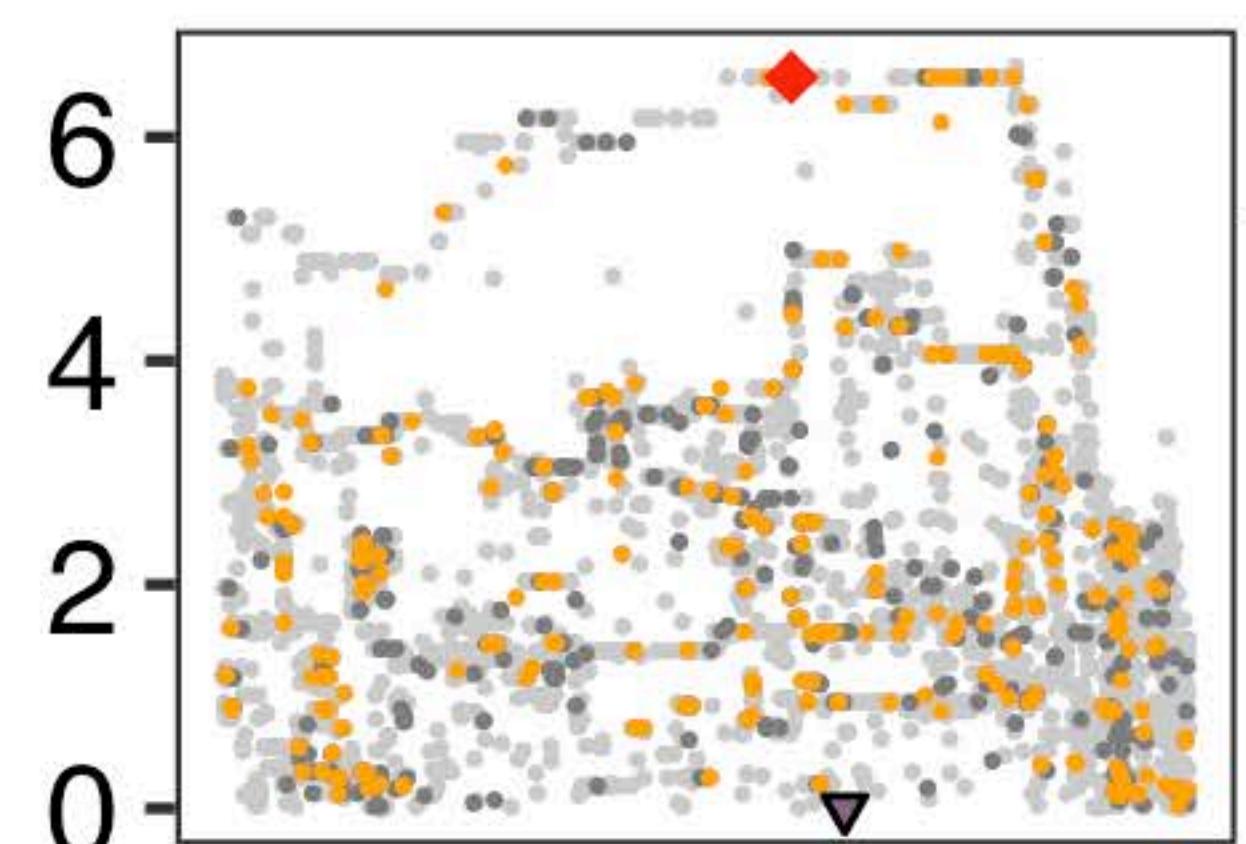
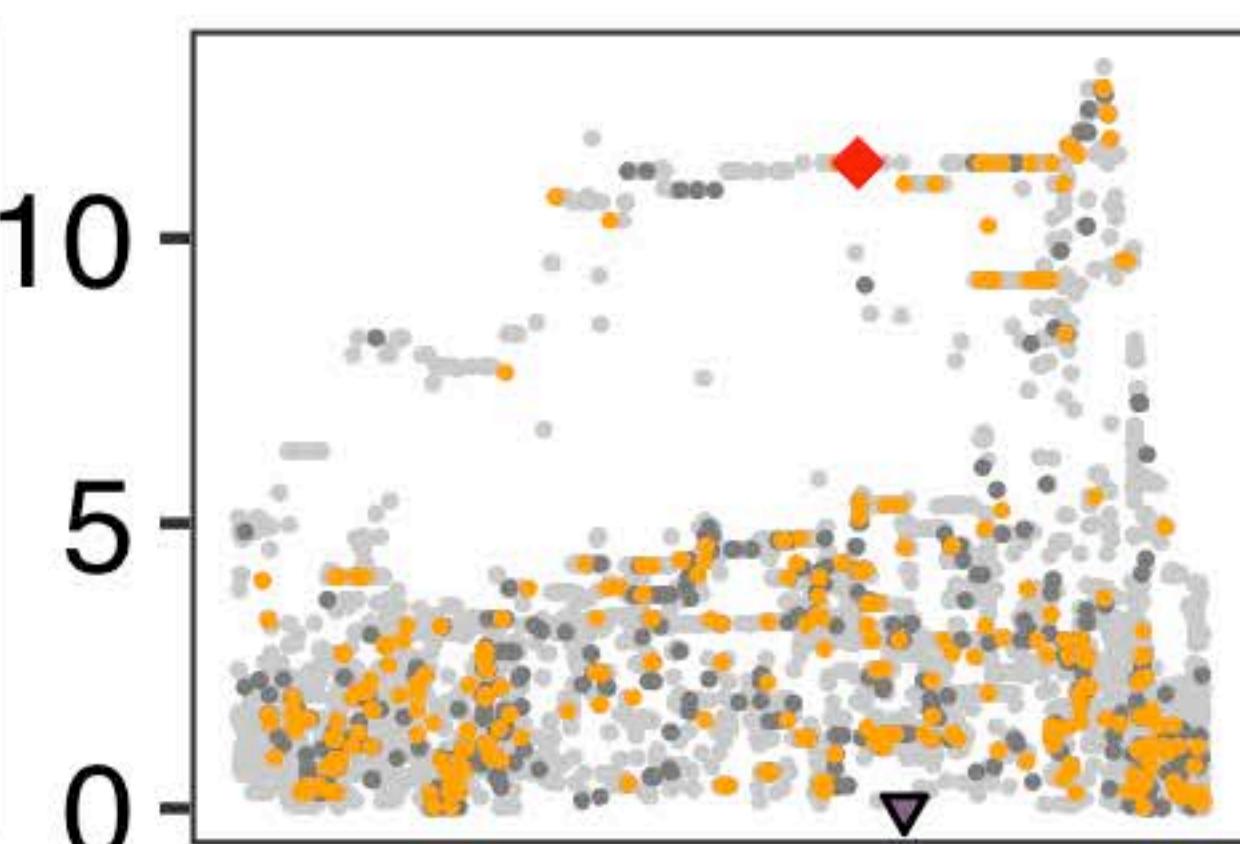
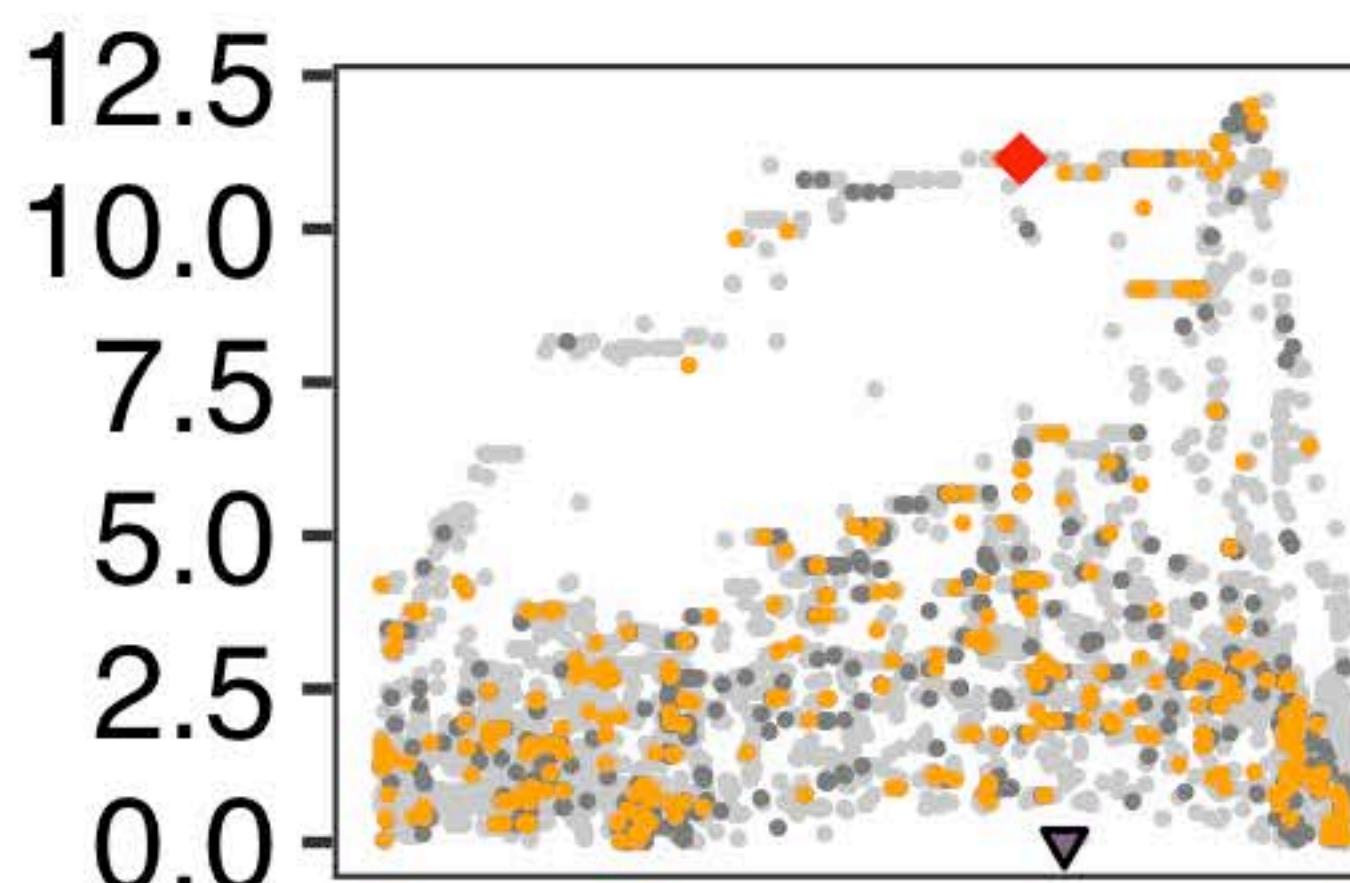
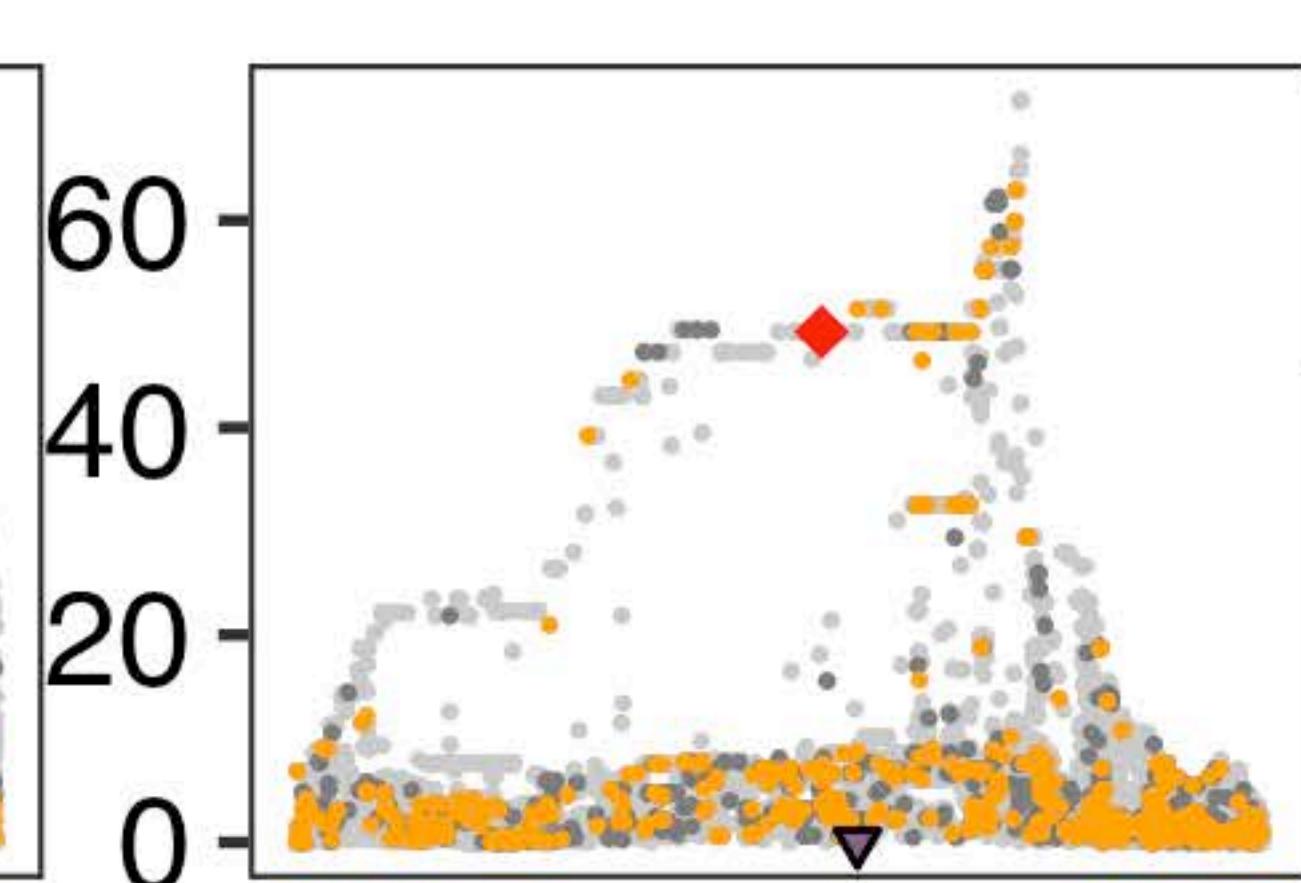
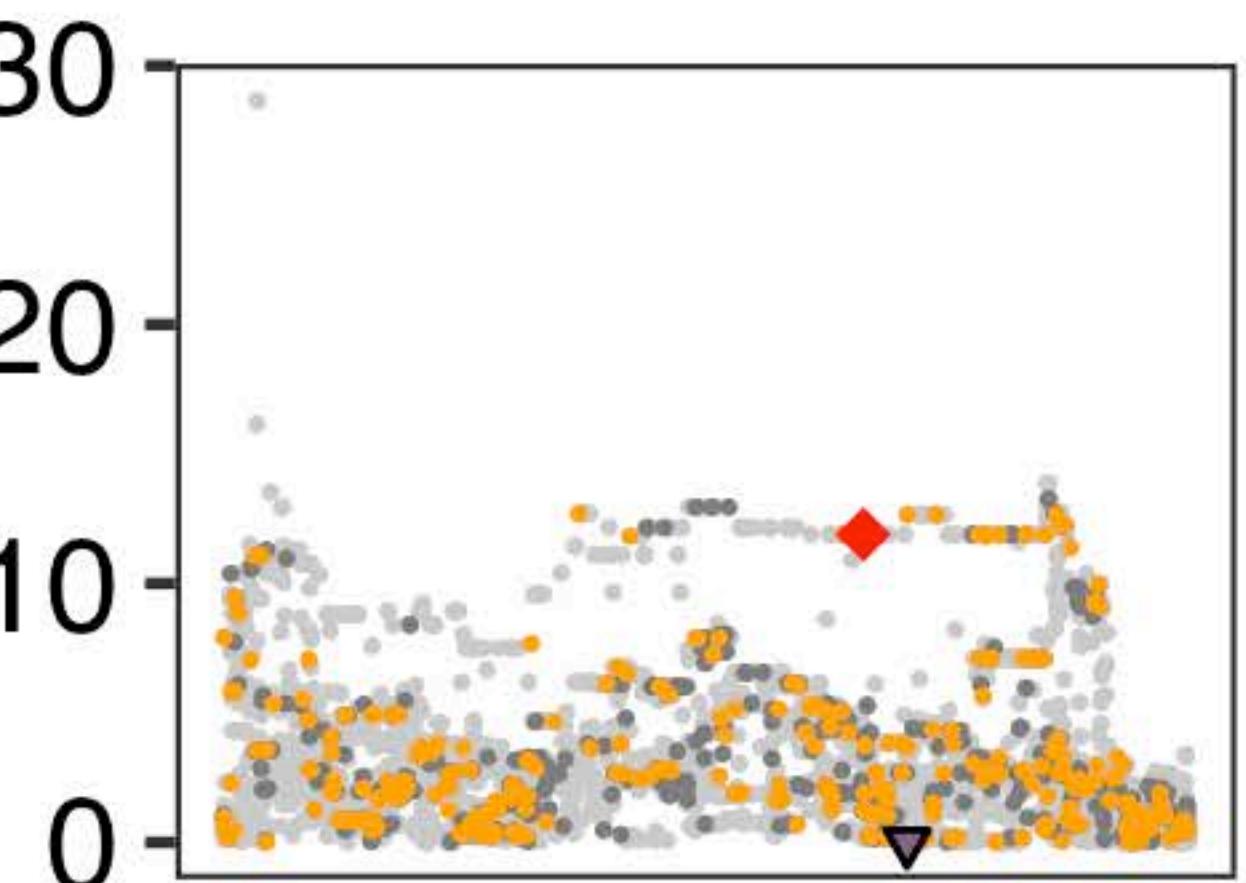


Genomic position (Mb)

Candidate genes

◆ *nhr-258*

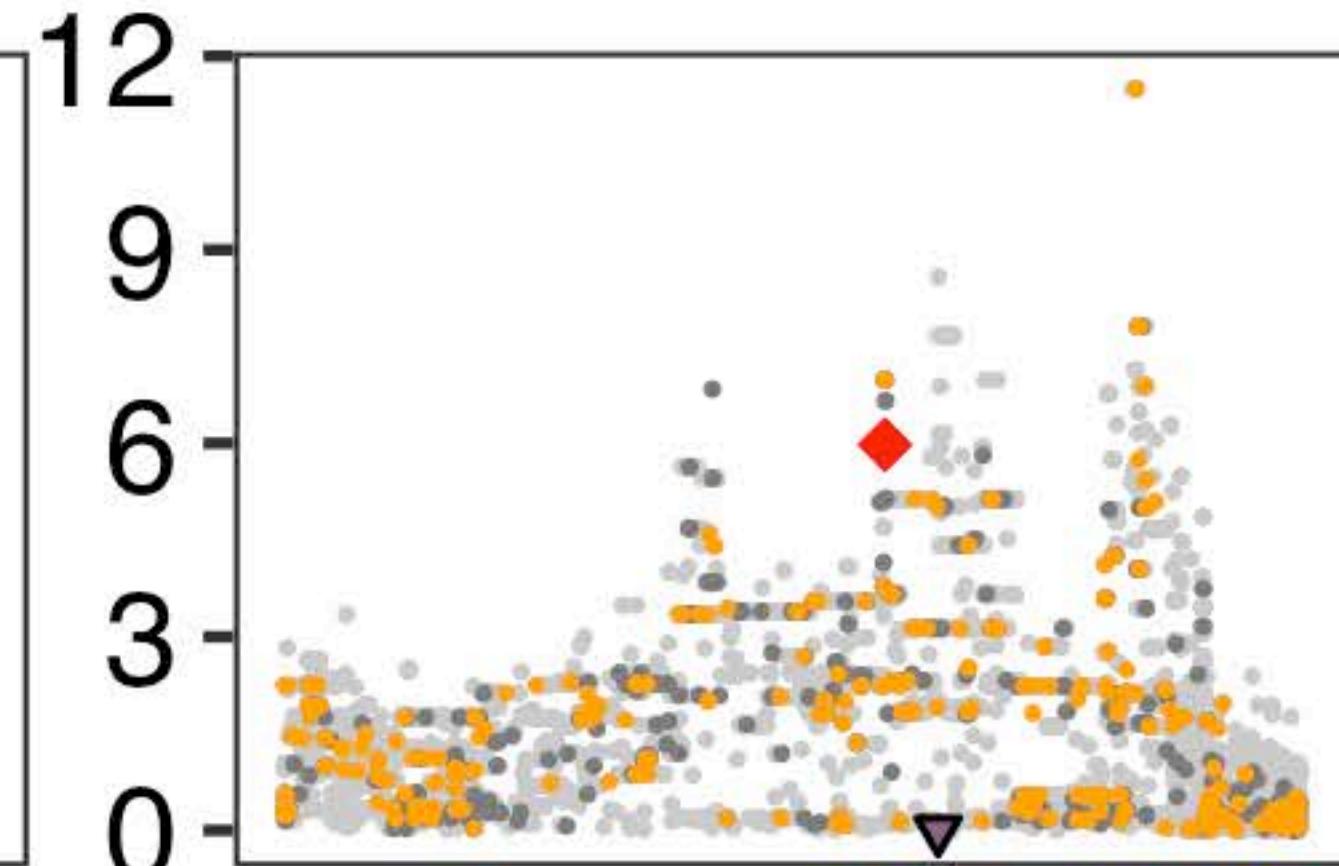
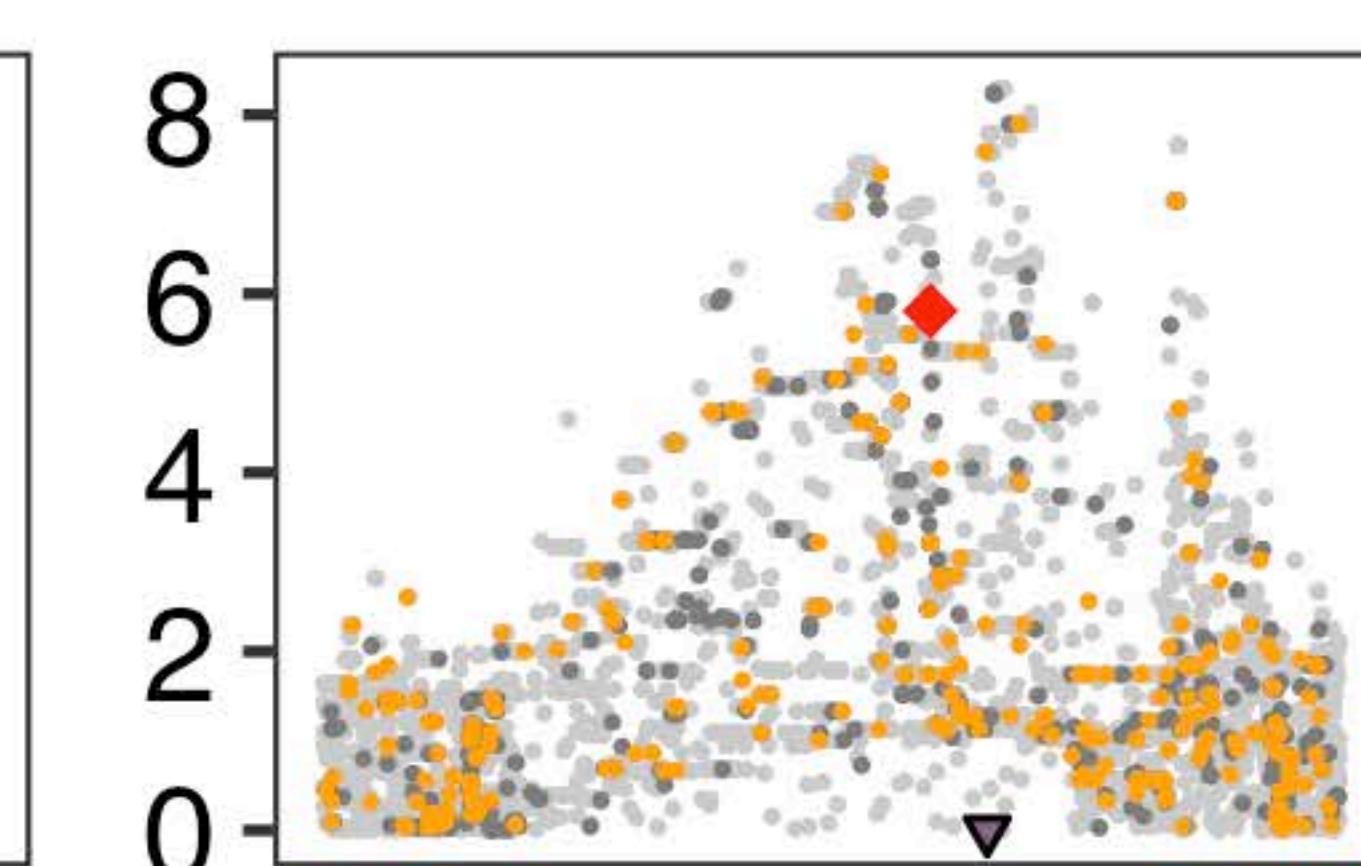
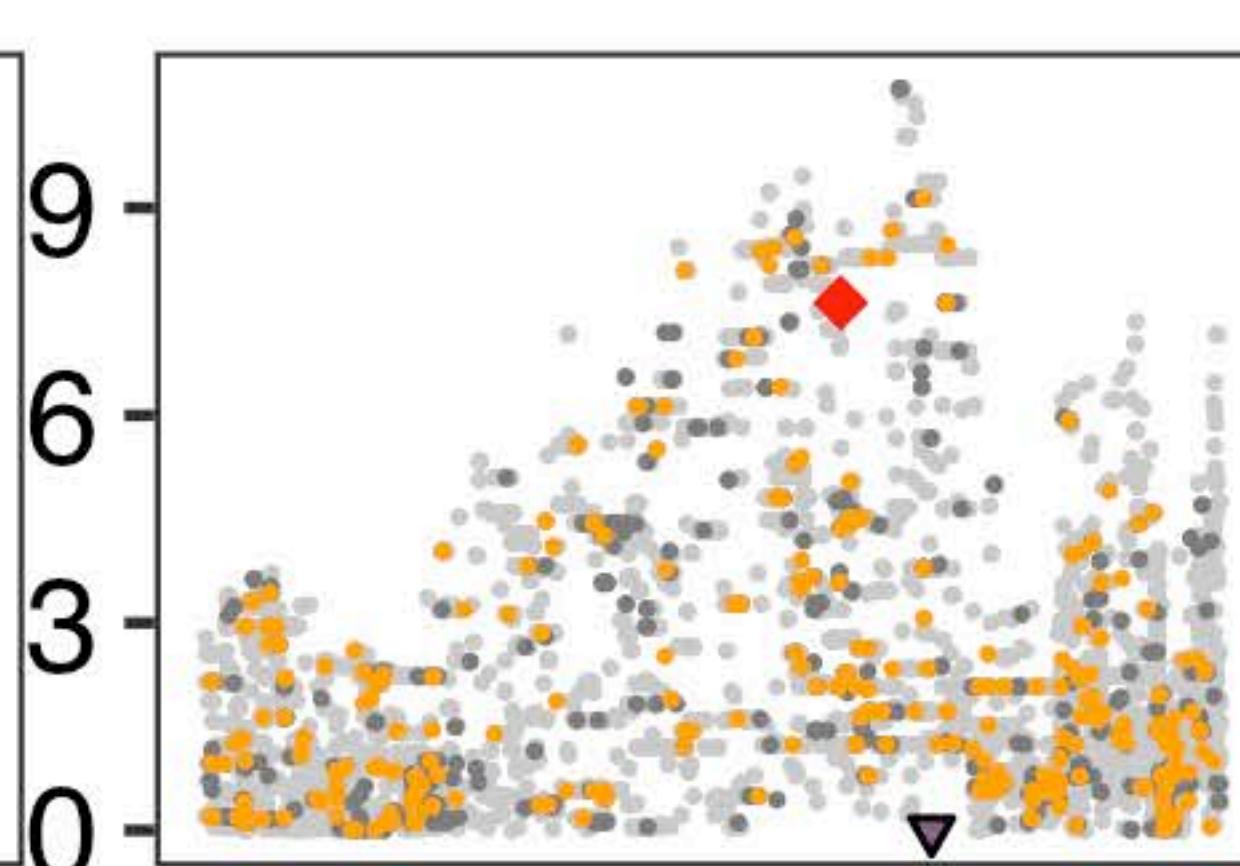
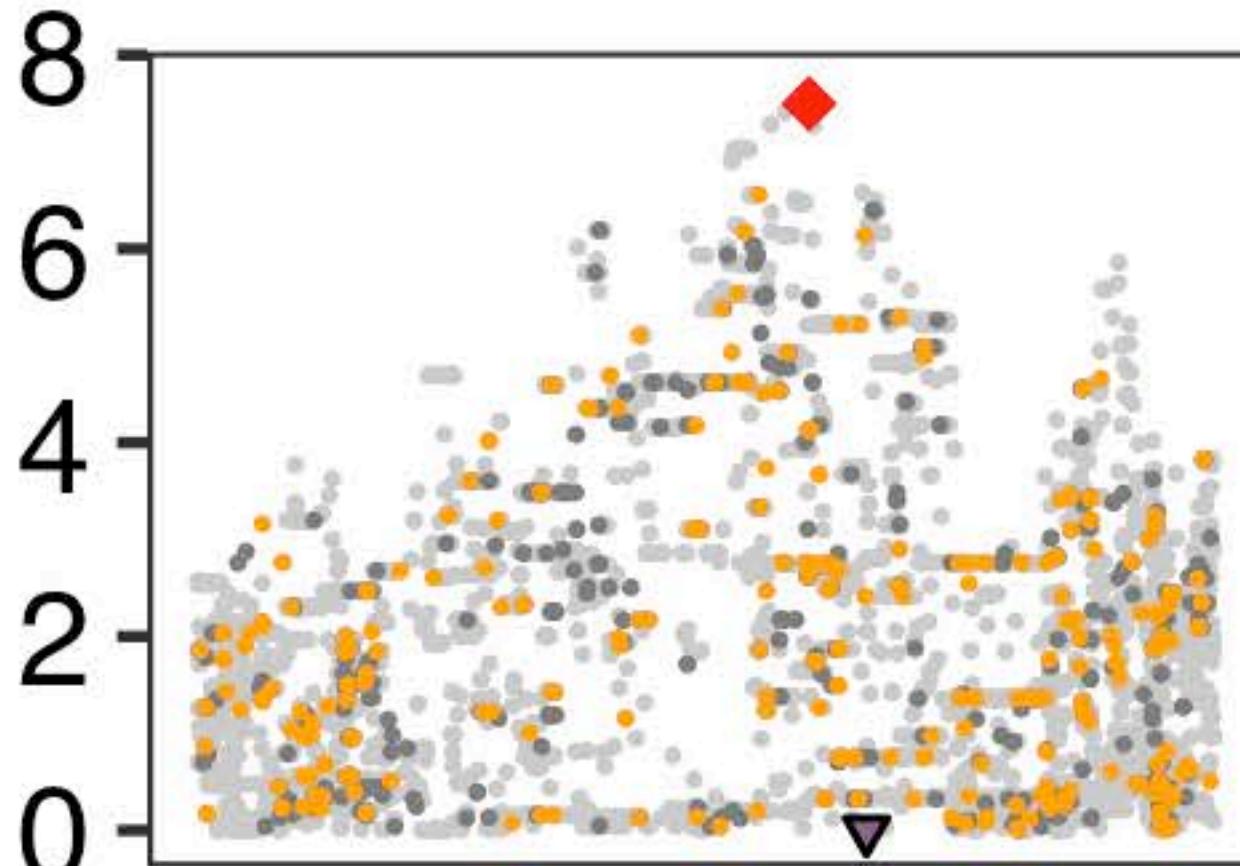
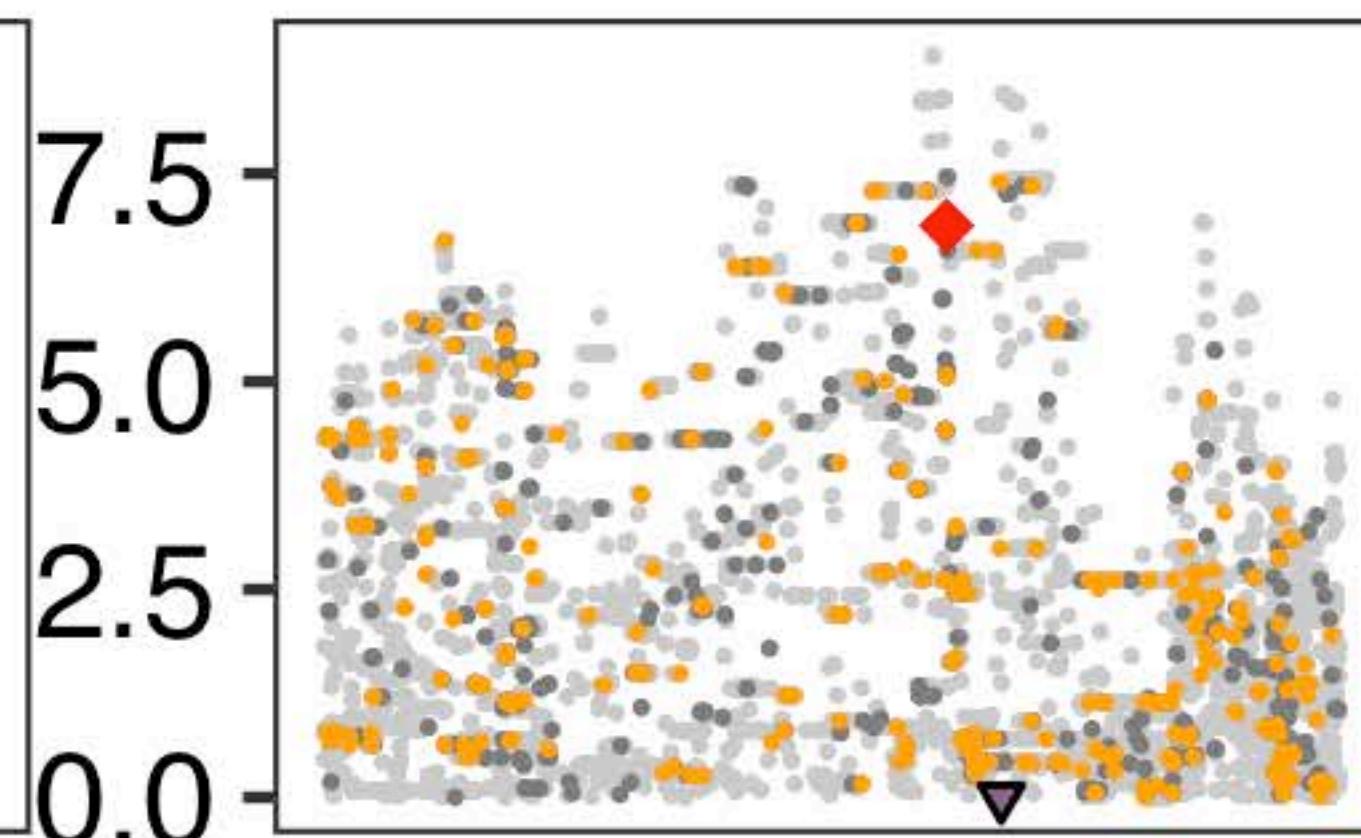
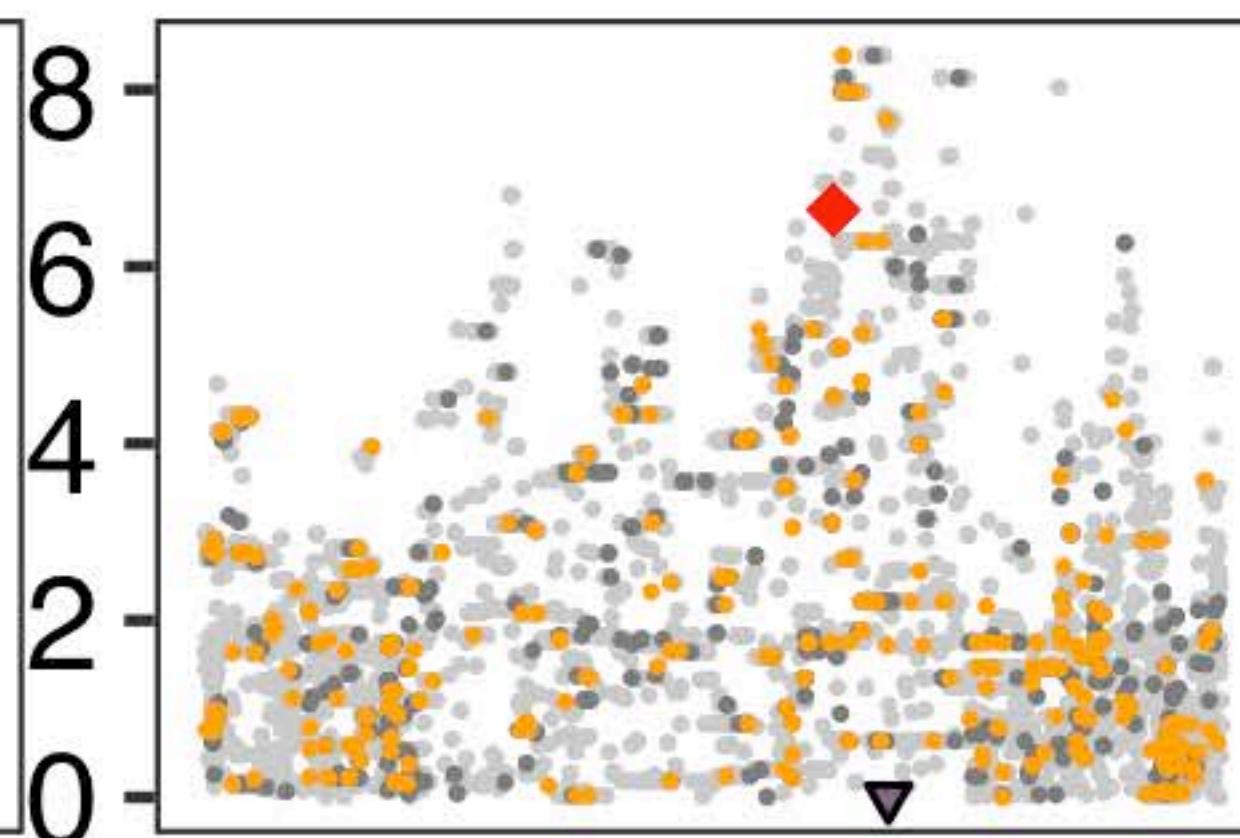
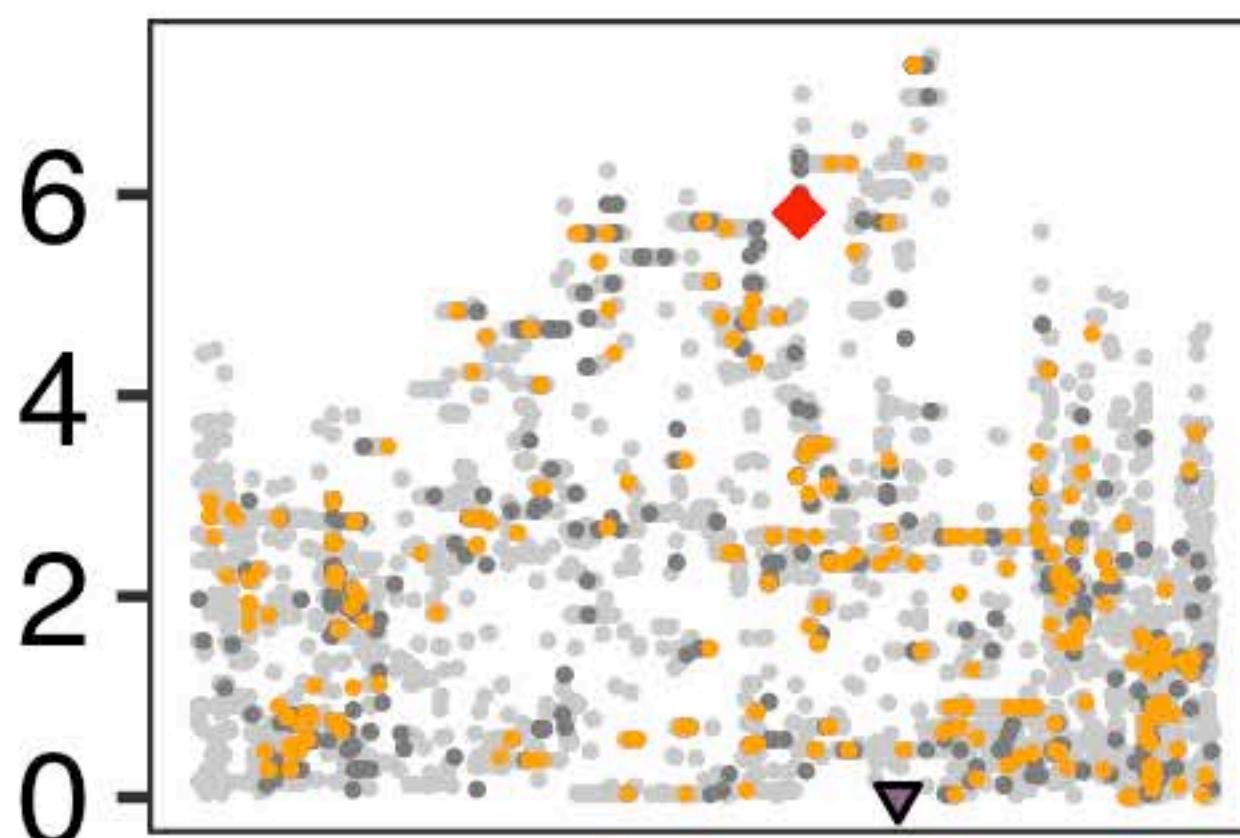
Chromosome IV: 32.5 cM

C05D12.5.1*F42A9.6c.1**MTCE.4.1**T04A11.1.1**T04A11.4.1**T23B5.4b.1**Y59E9AL.2.1*

Genomic position (Mb)

Candidate genes ◆ *zim-1*

Chromosome IV: 32.5 cM

*D2045.2.1**F11C1.6a.1**F25H8.1a.2**F36H5.13.1* $-\log_{10}(p)$ *F52B5.7.1**F52E10.1a.1**Y73B6BL.43.1*

Genomic position (Mb)

Candidate genes

◆ *zim-2*

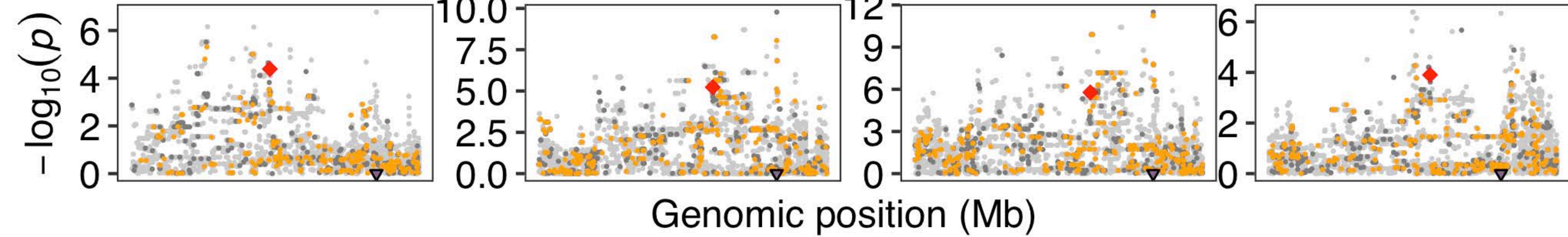
Chromosome IV: 33.5 cM

C46C11.4.1

F45D11.8

T25B9.8.2

Y37H2A.8

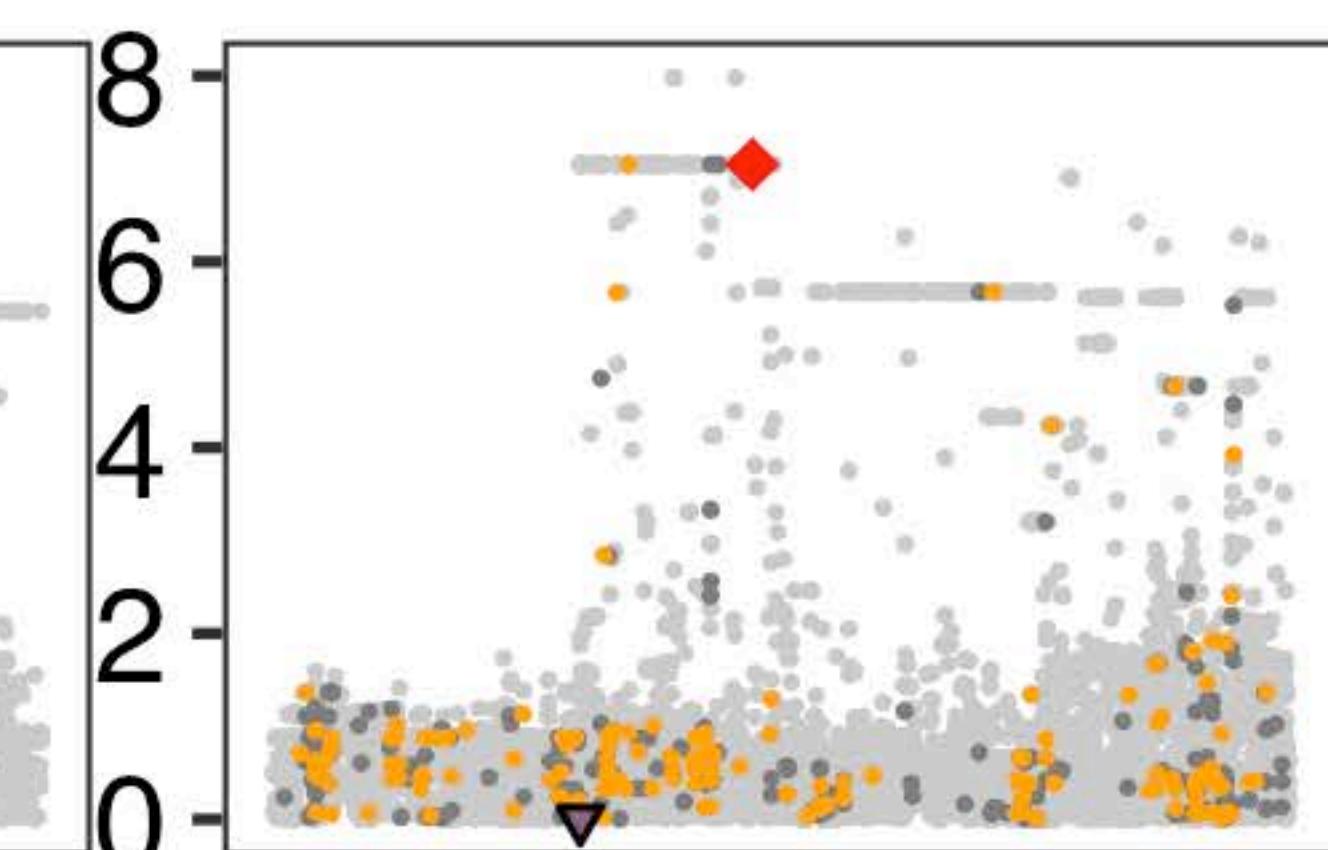
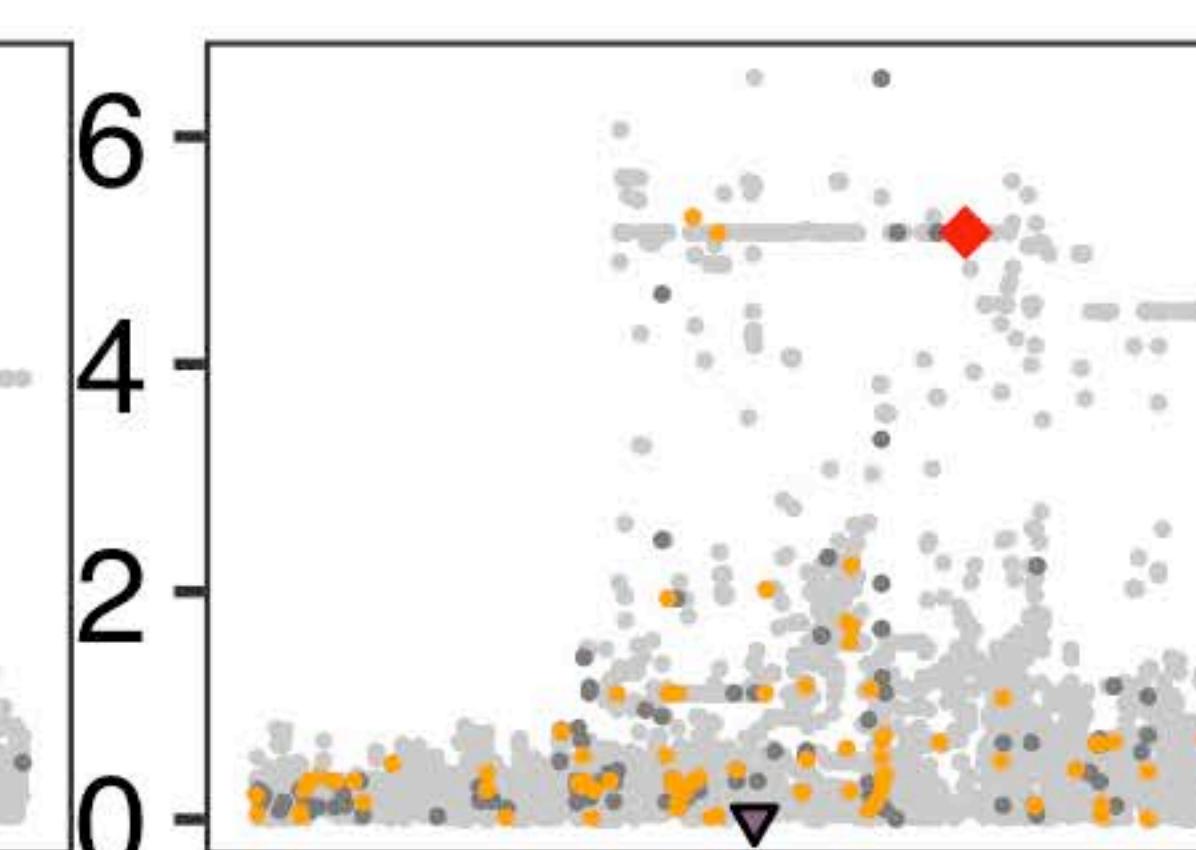
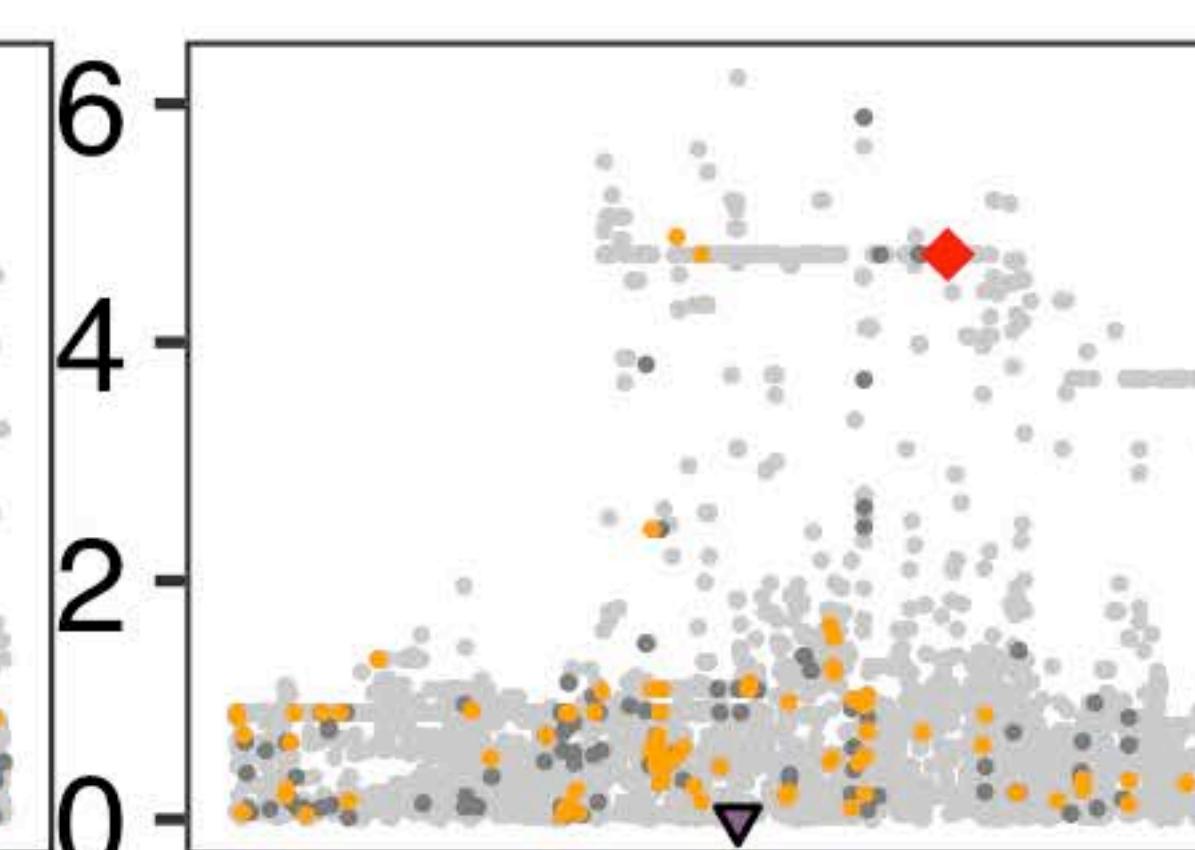
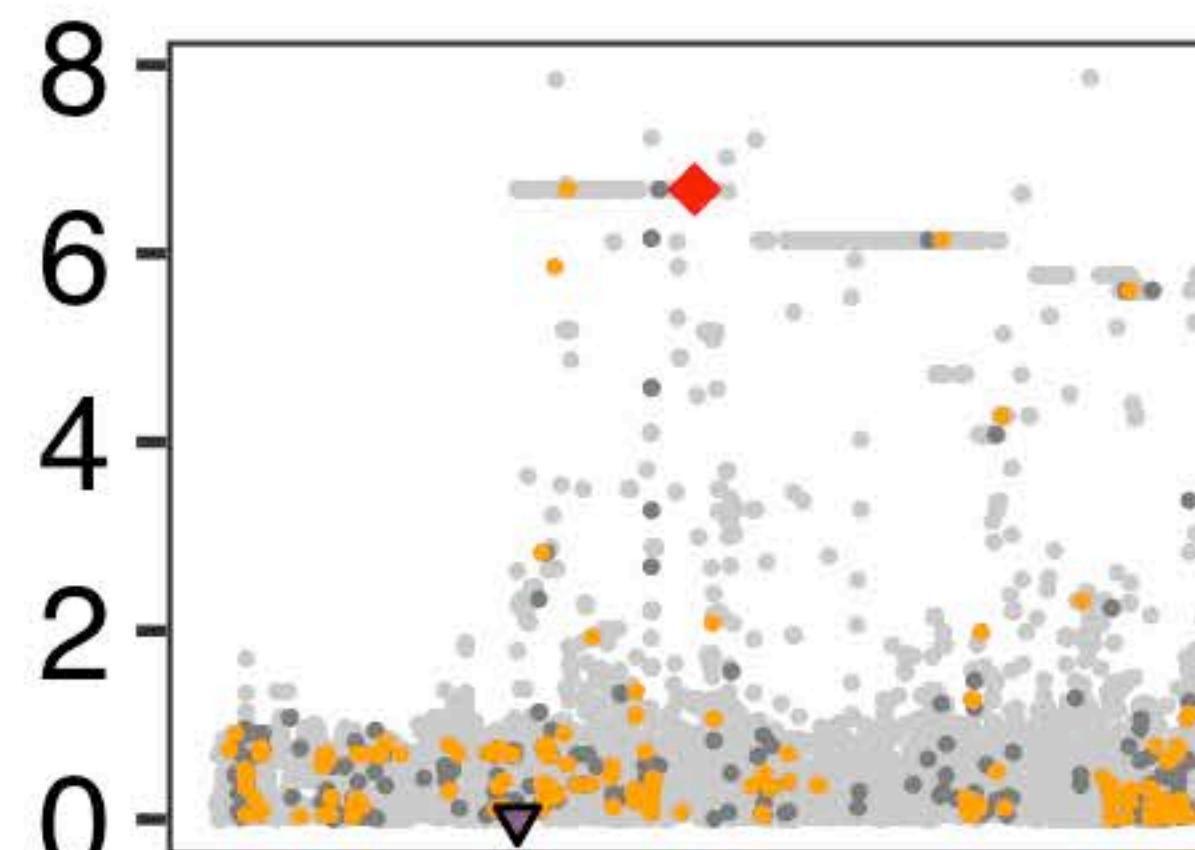
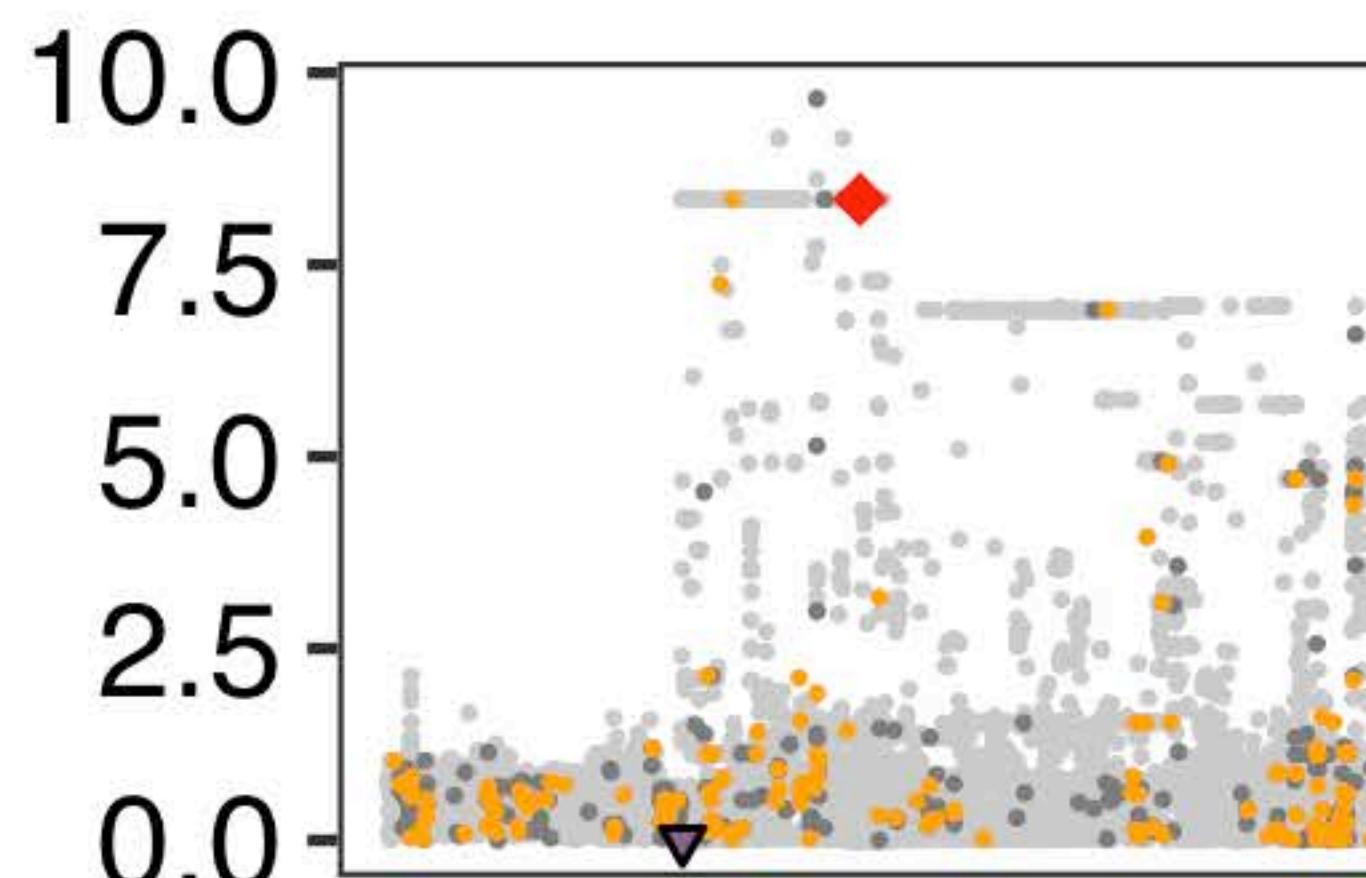


Candidate genes



zim-3

Chromosome IV: 40.5 cM

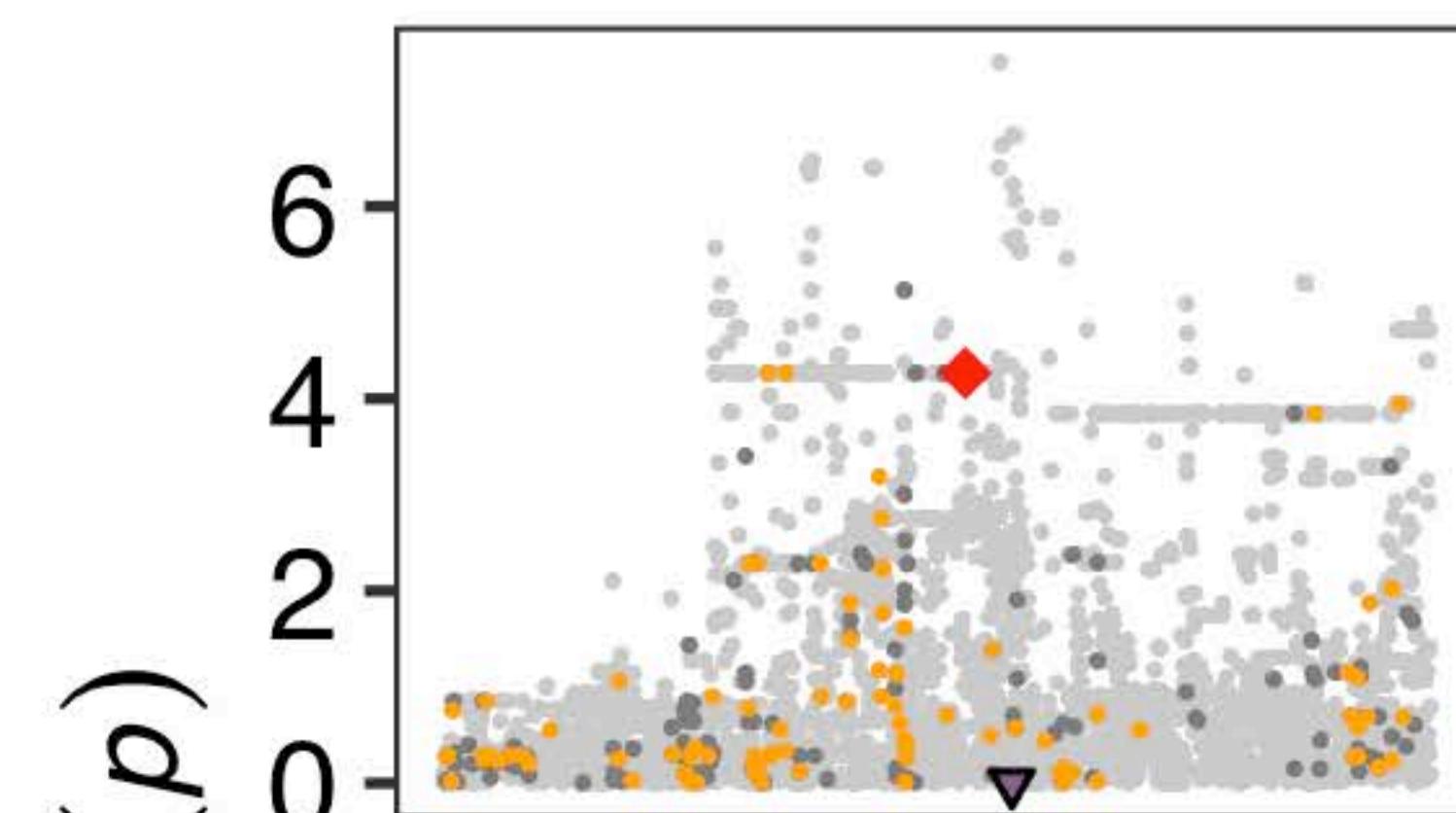
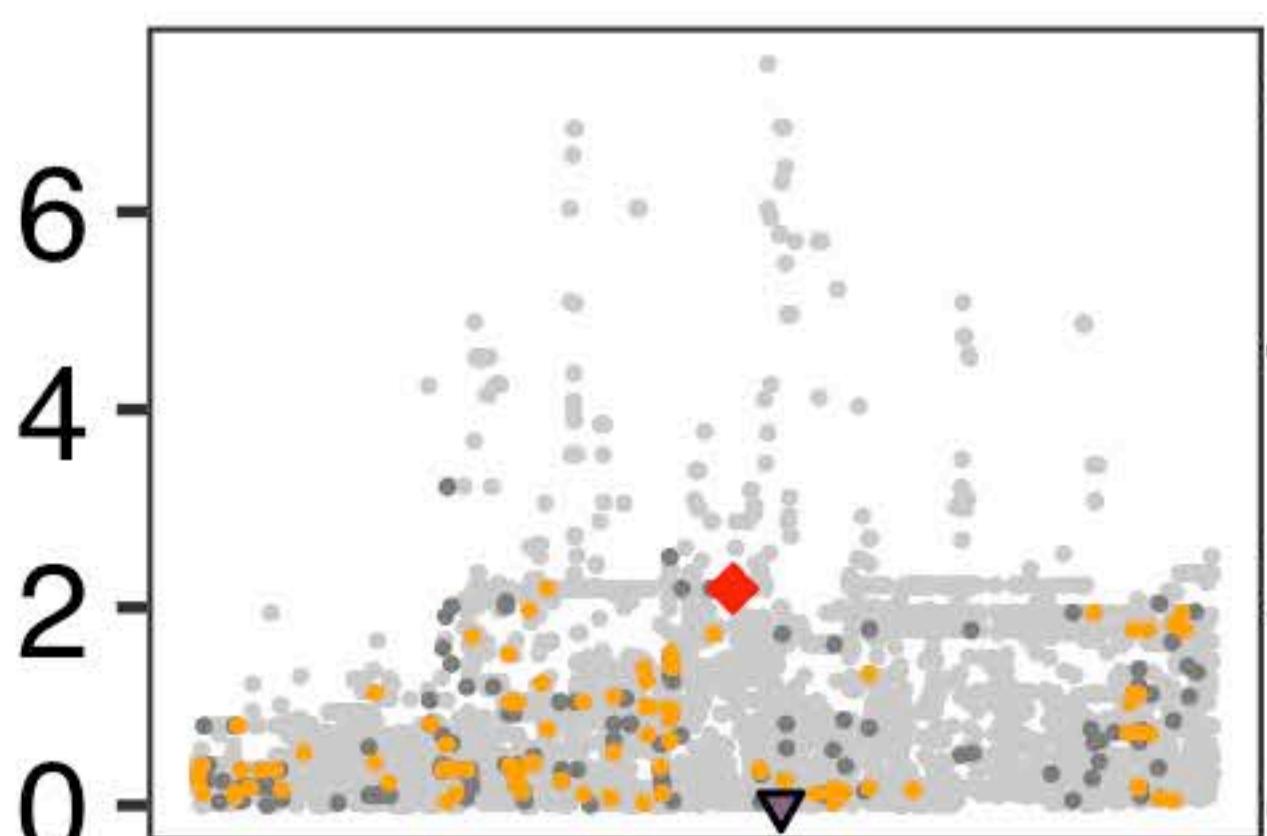
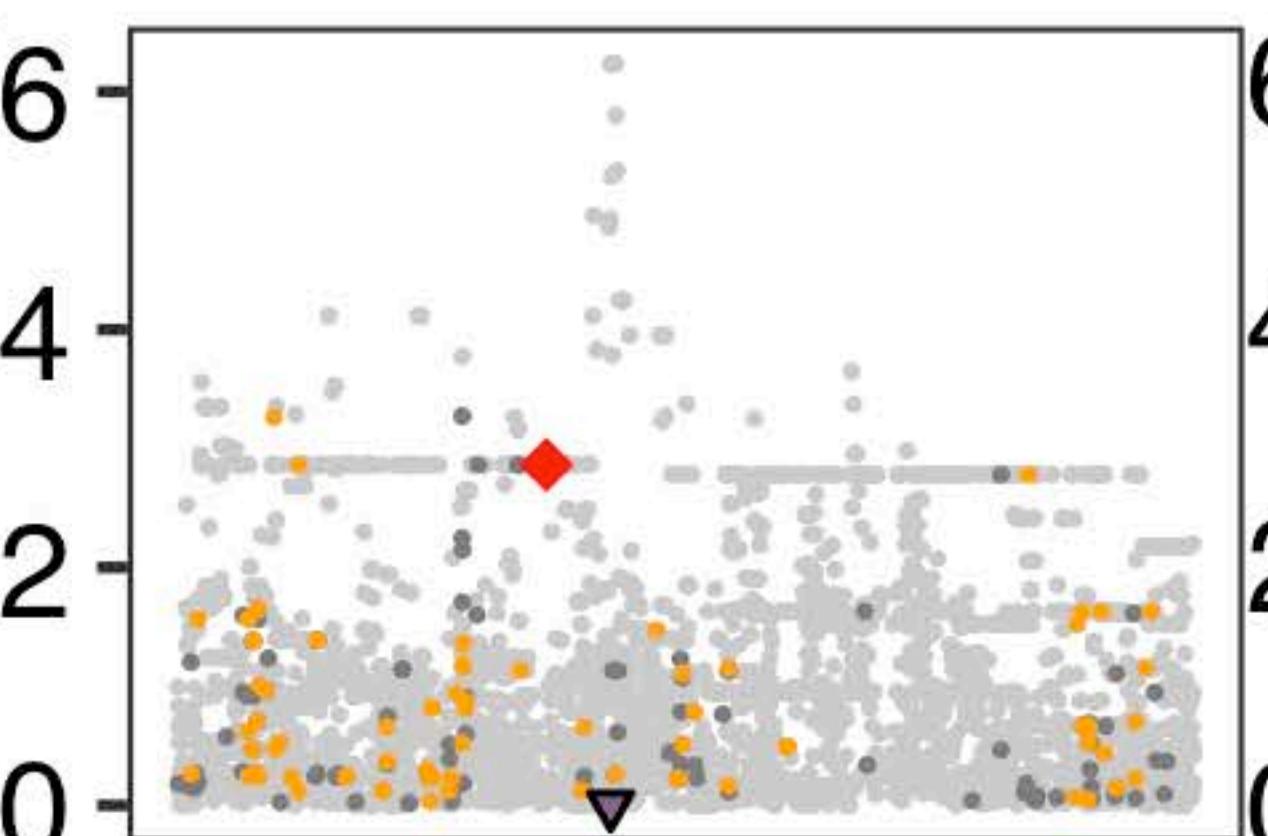
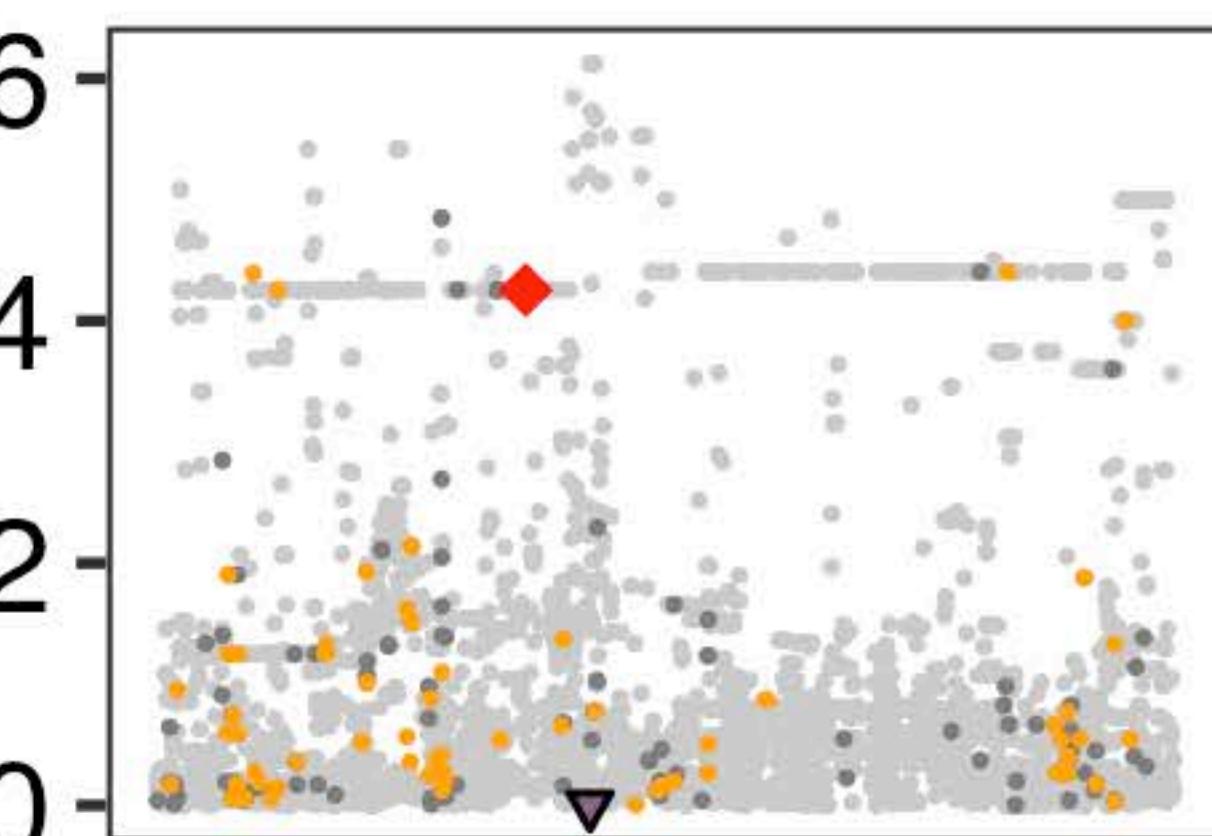
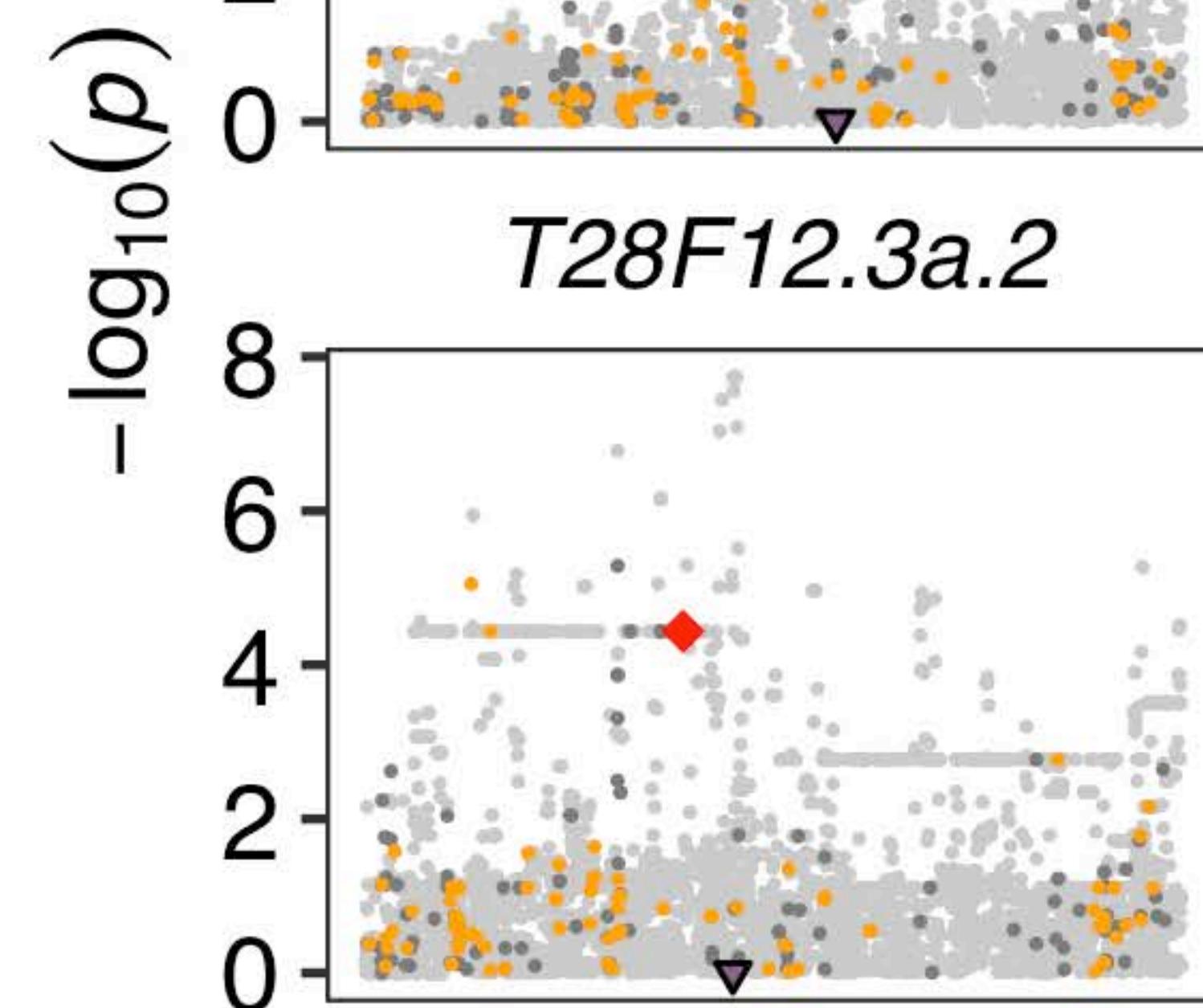
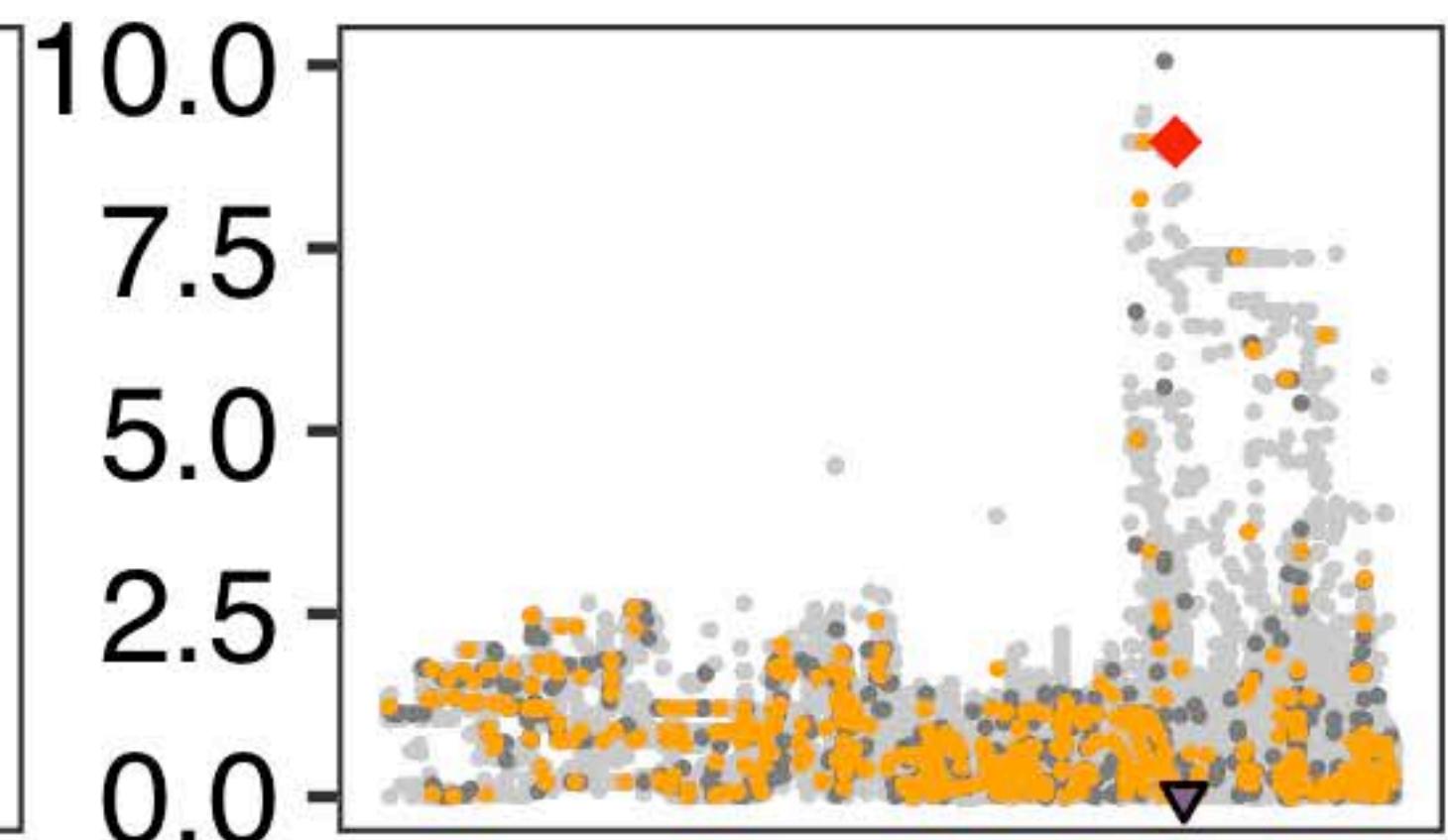
*F28G4.5**R07G3.3d.1**R07G3.3e.1**T02D1.6a.1* $-\log_{10}(p)$ *Y106G6H.6a.2*

Genomic position (Mb)

Candidate genes

◆ *nhr-5*

Chromosome IV: 41.5 cM

C07A9.3a.1*F26E4.8b.1**H43I07.3a.1**T22F3.3a.1**T28F12.3a.2**Y39H10A.3a.1*

Genomic position (Mb)

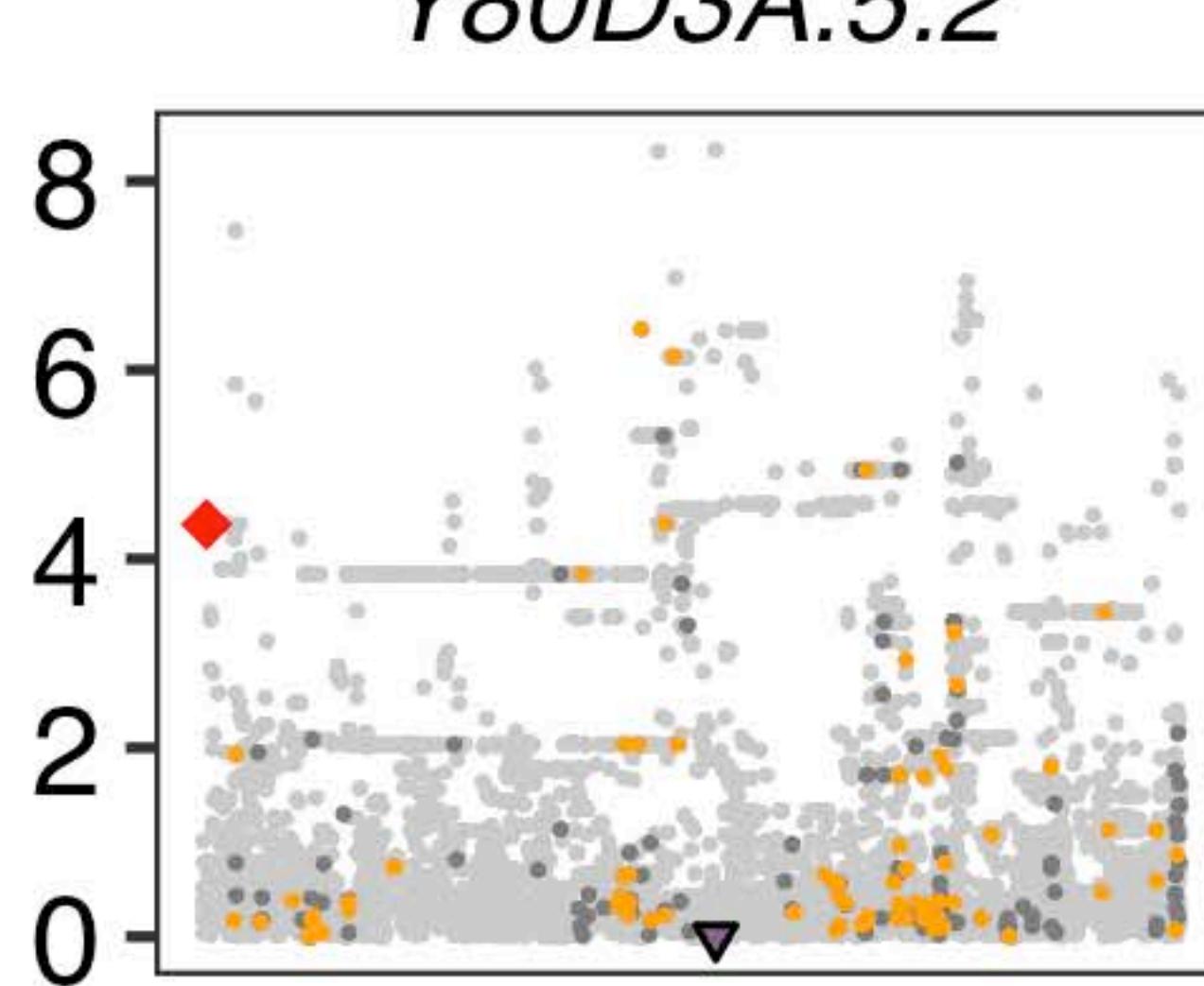
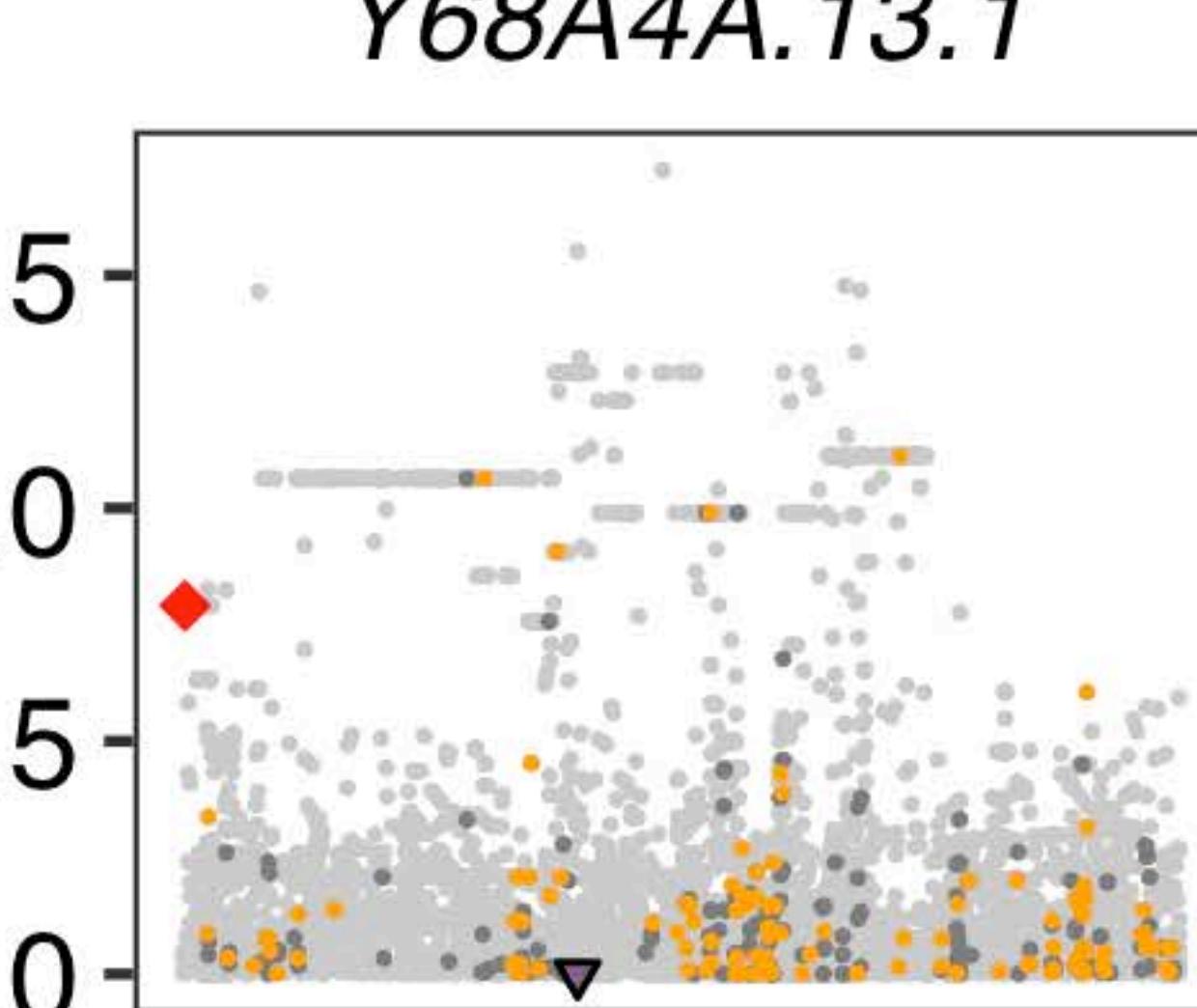
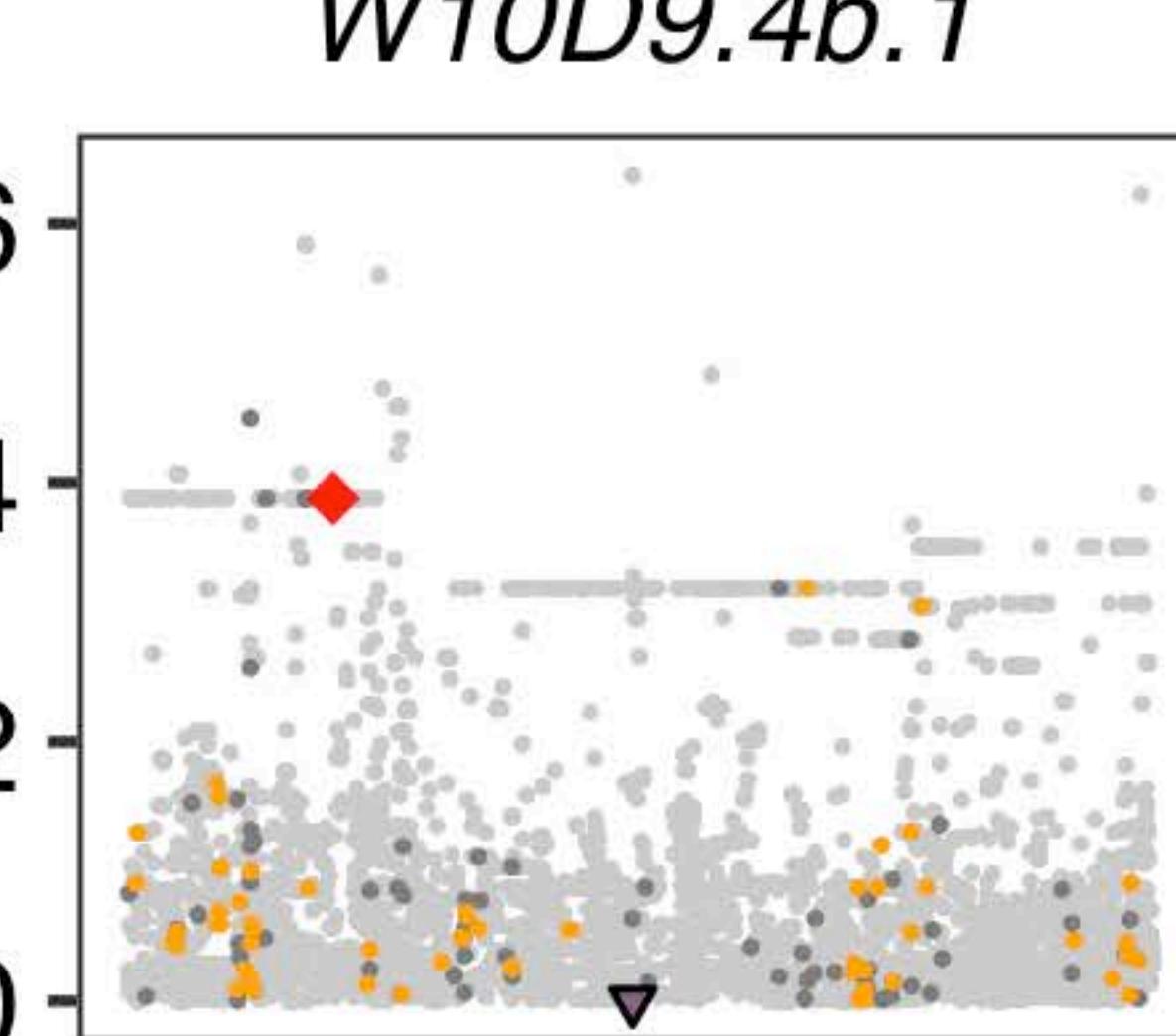
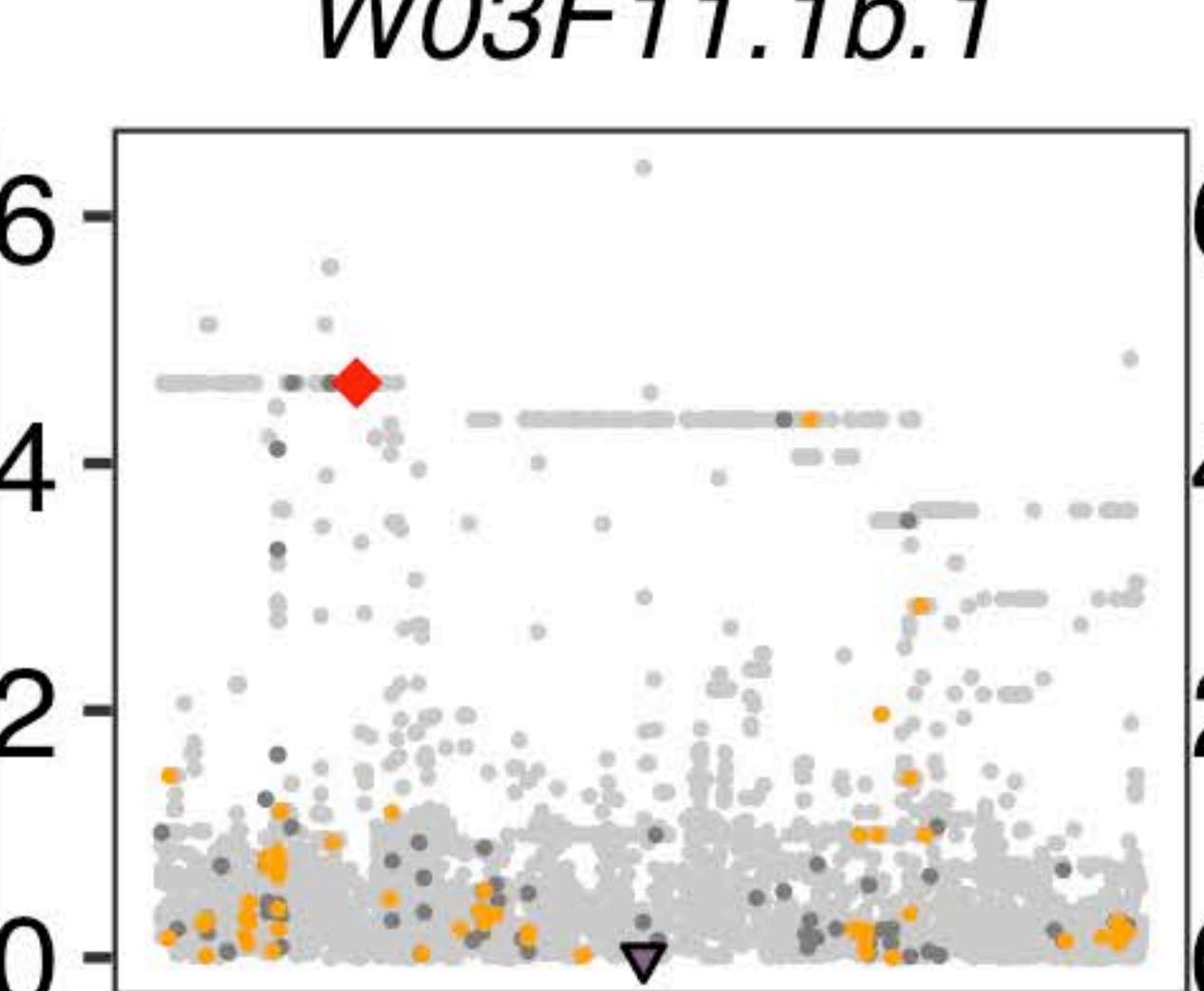
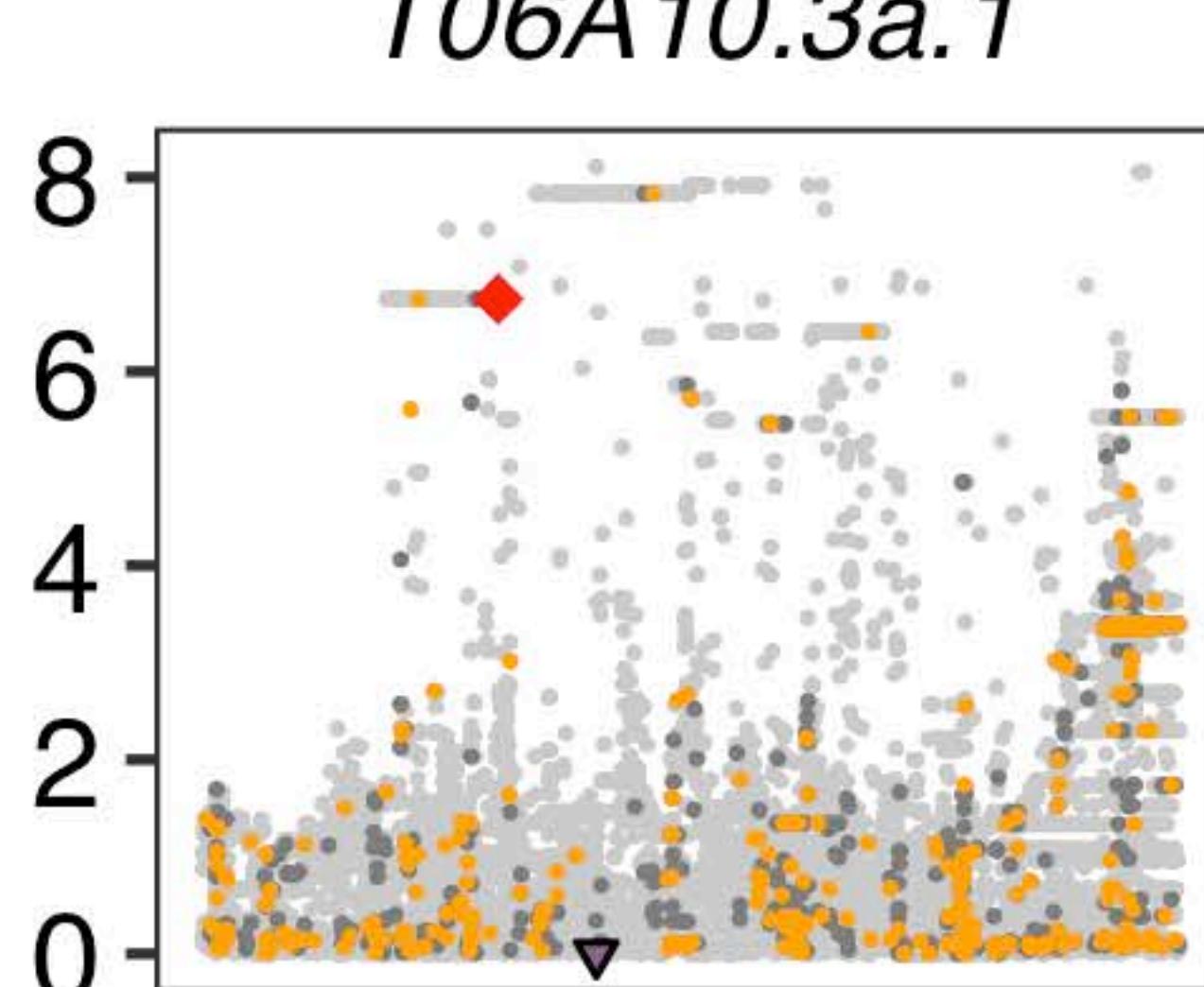
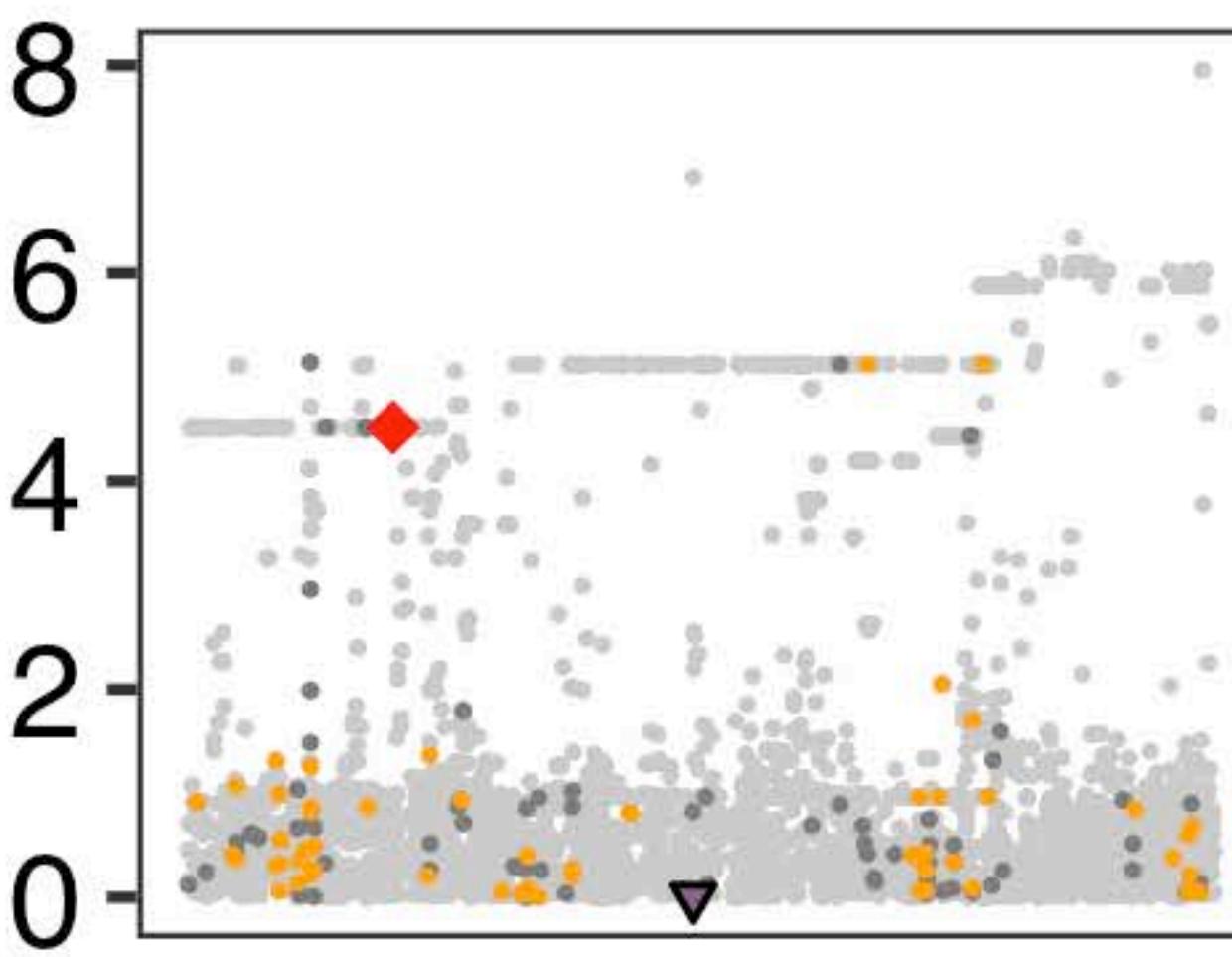
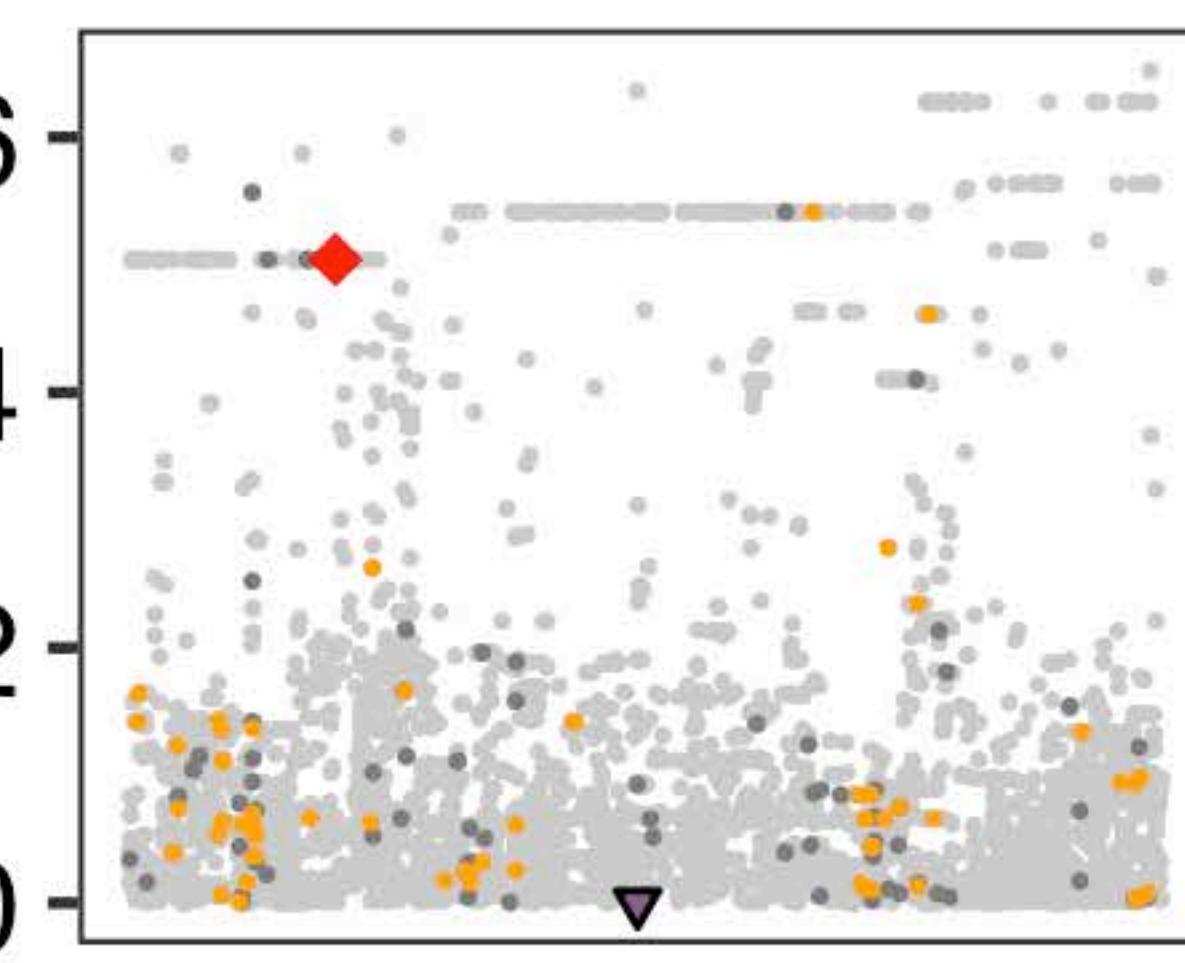
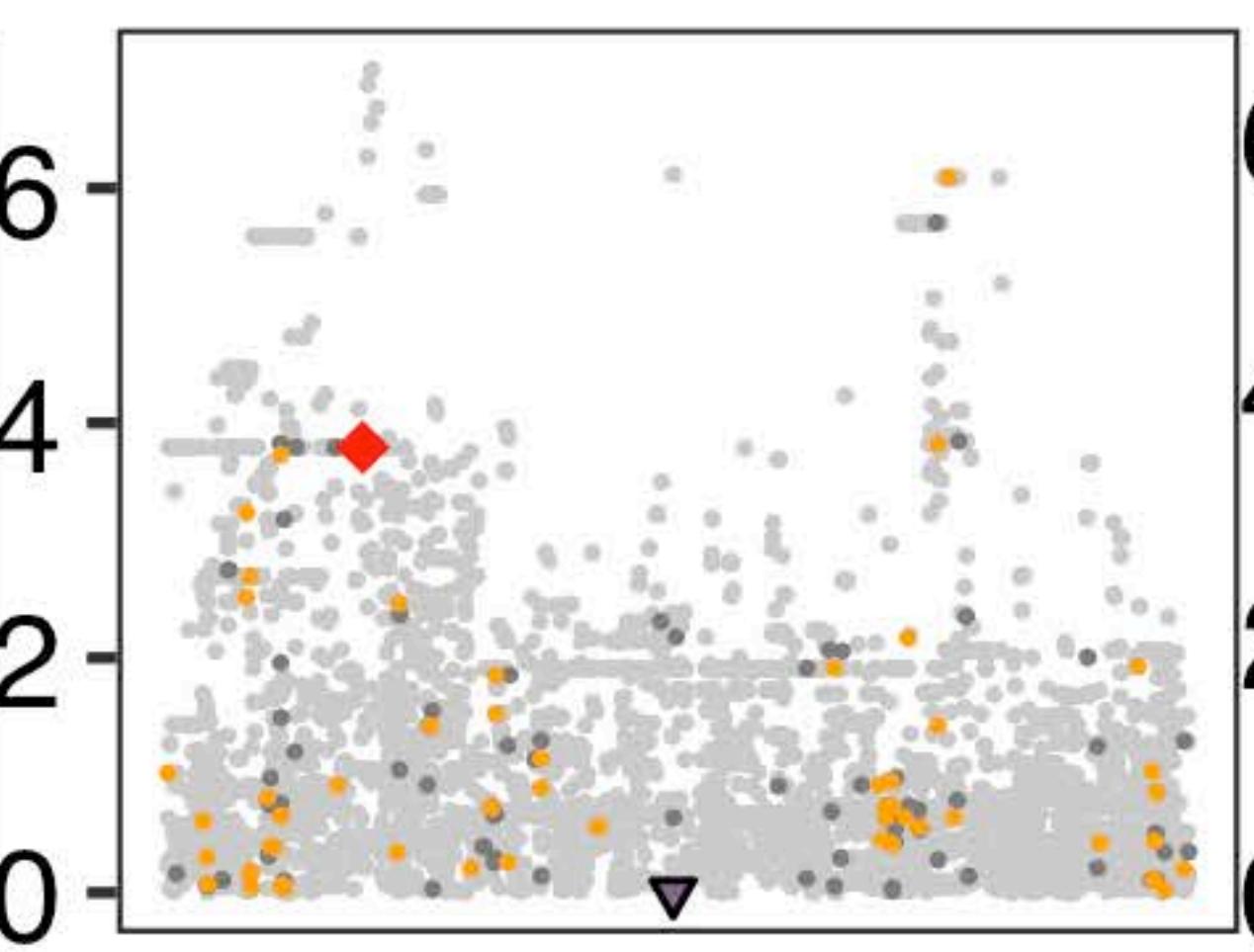
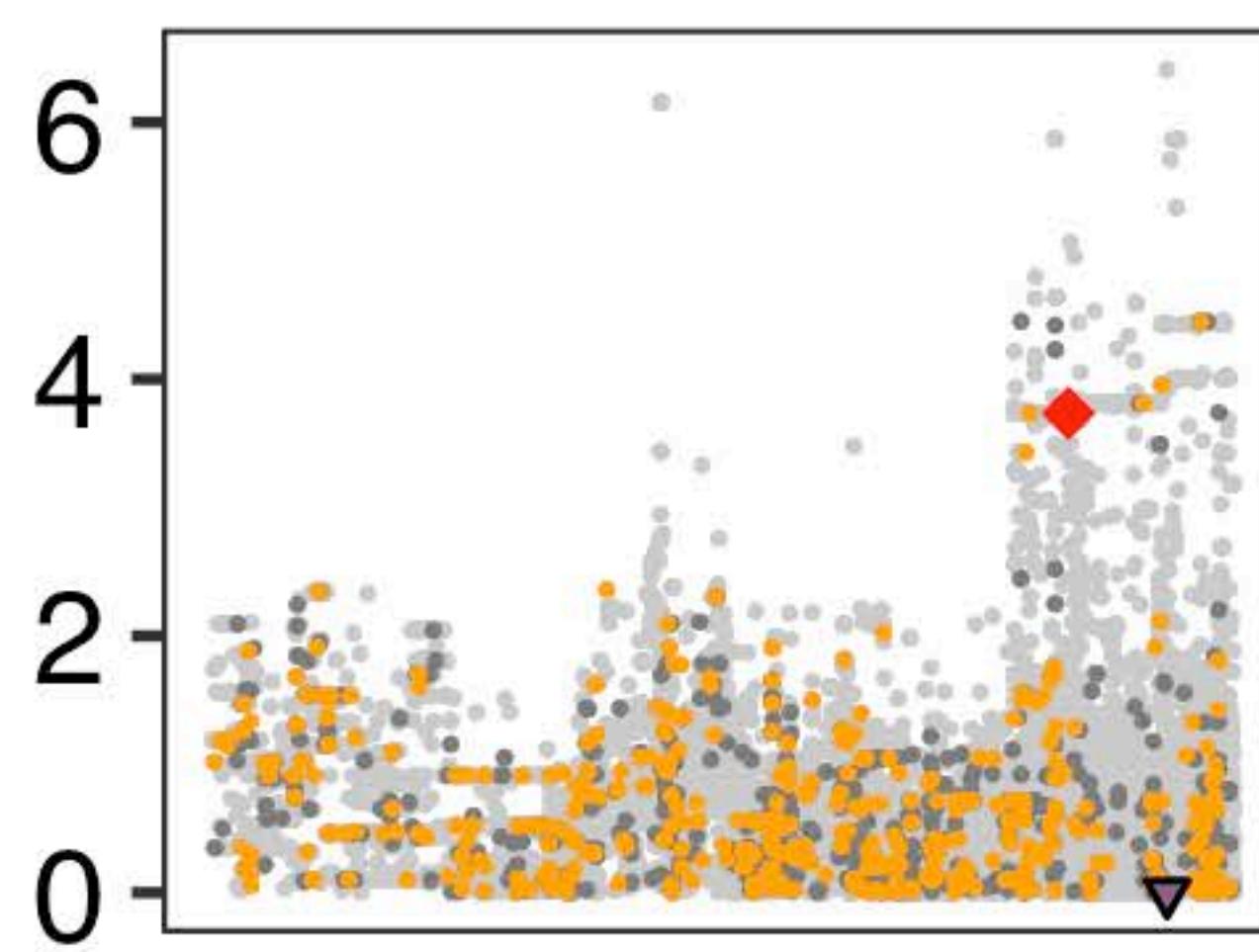
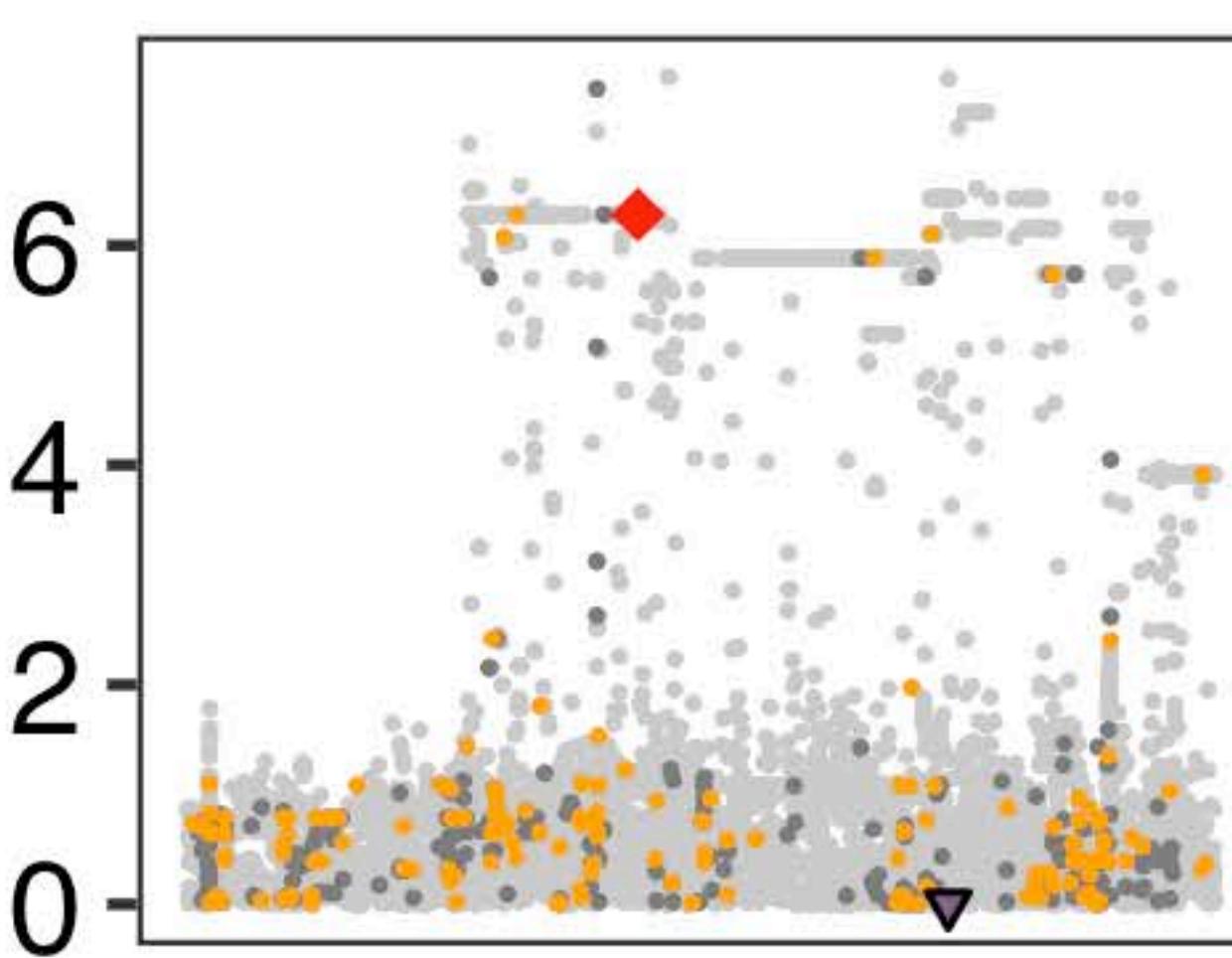
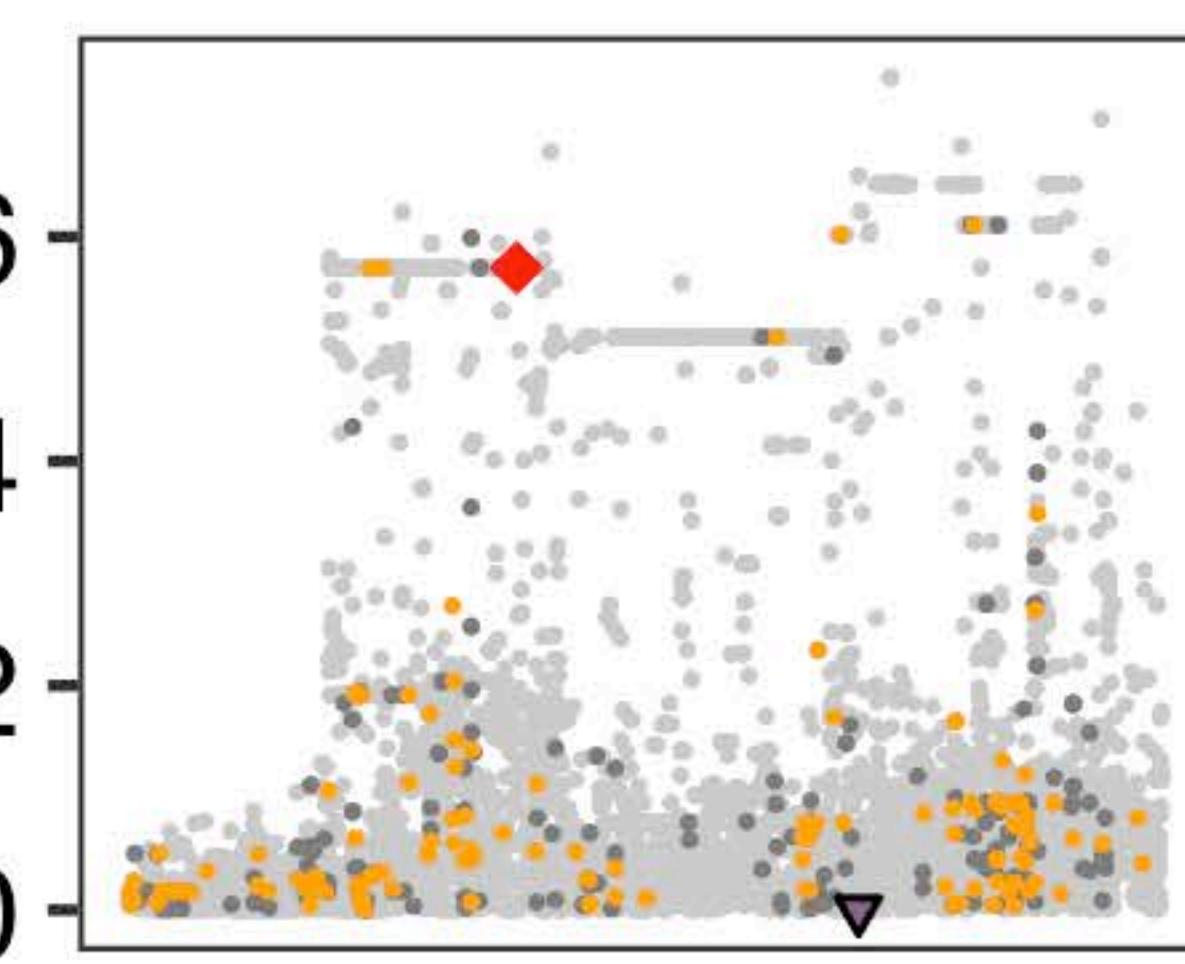
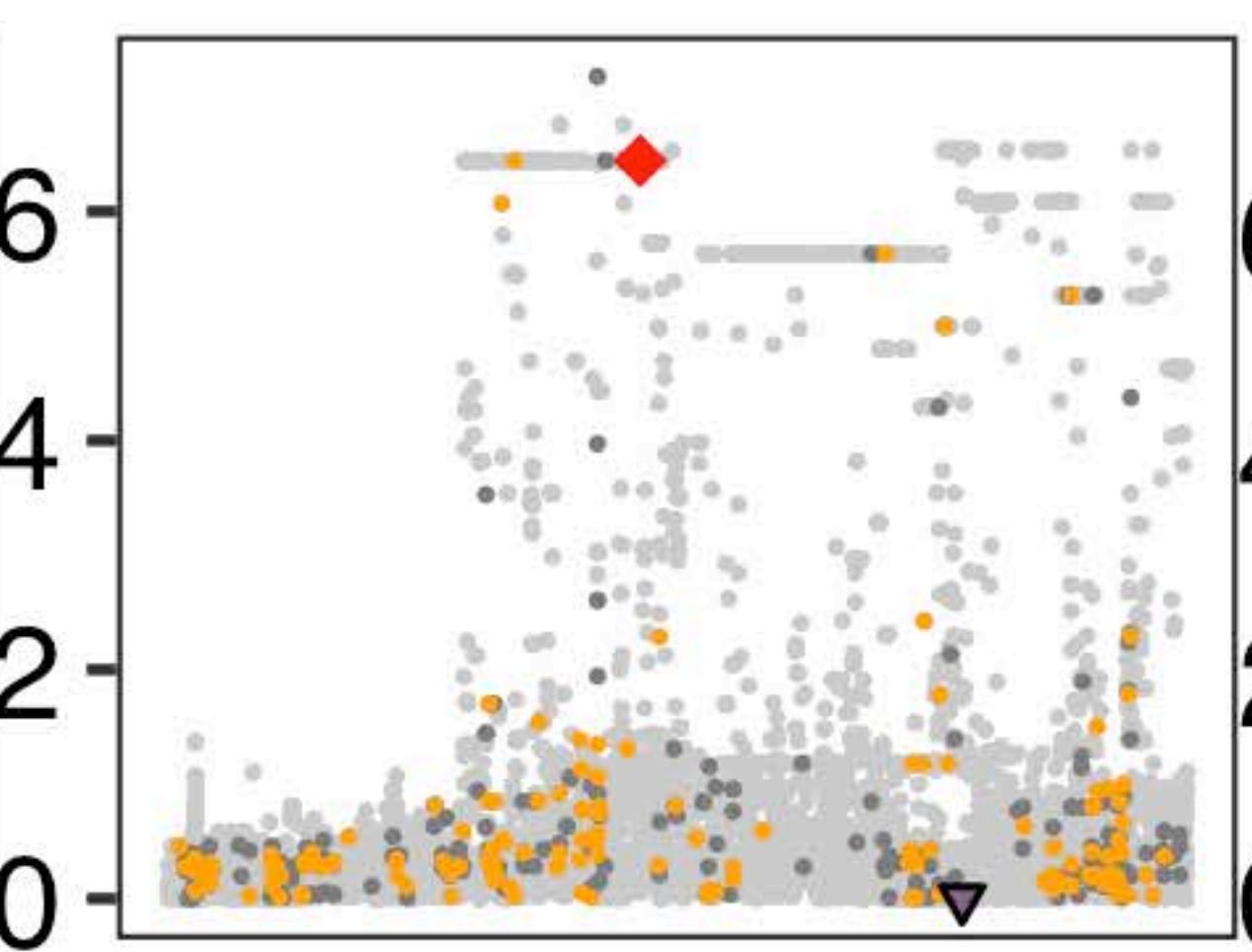
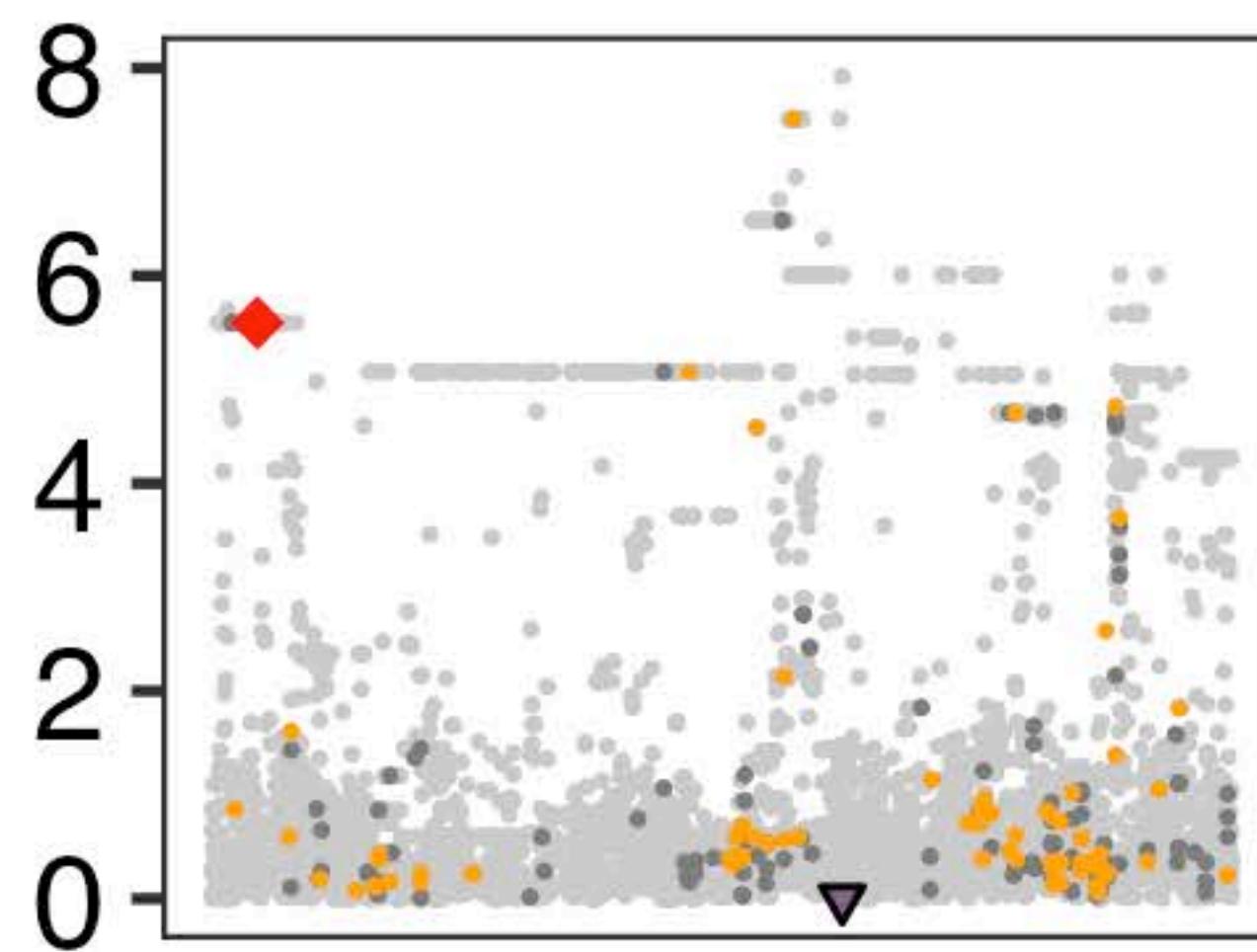
Candidate genes

◆ *nhr-5*

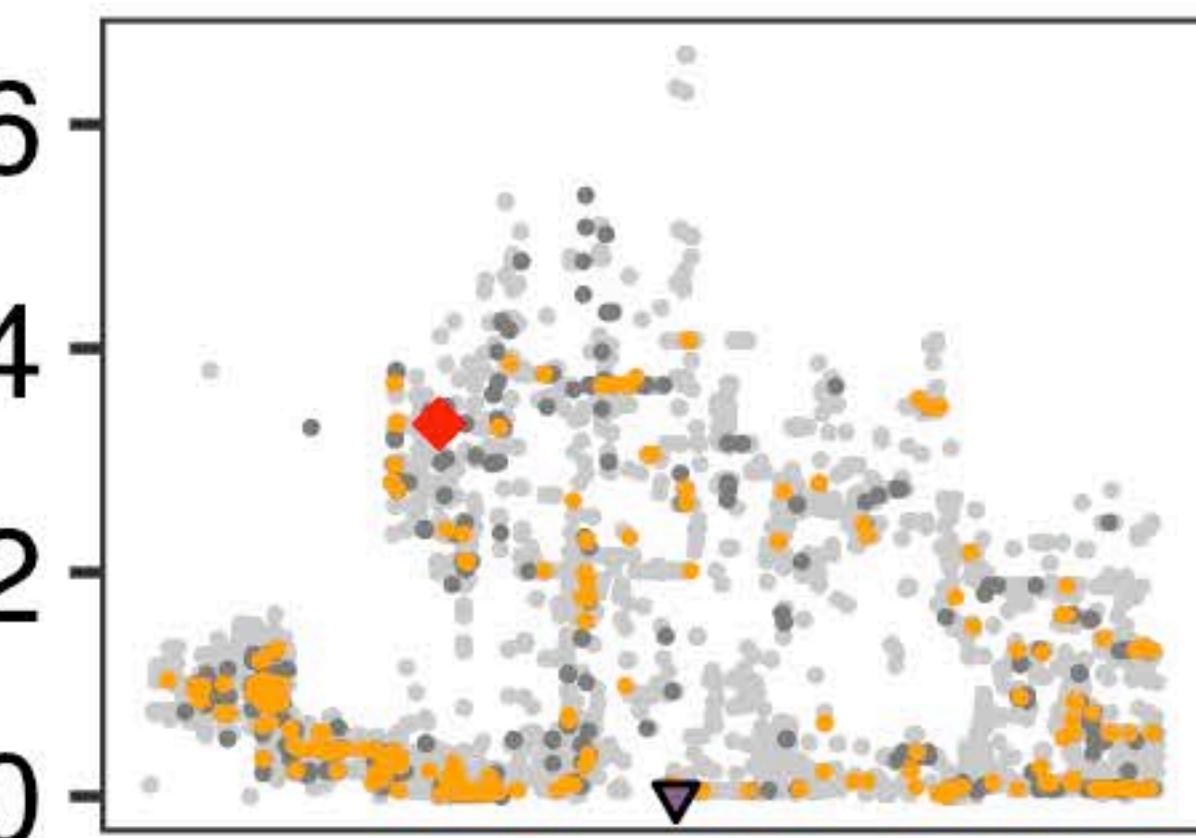
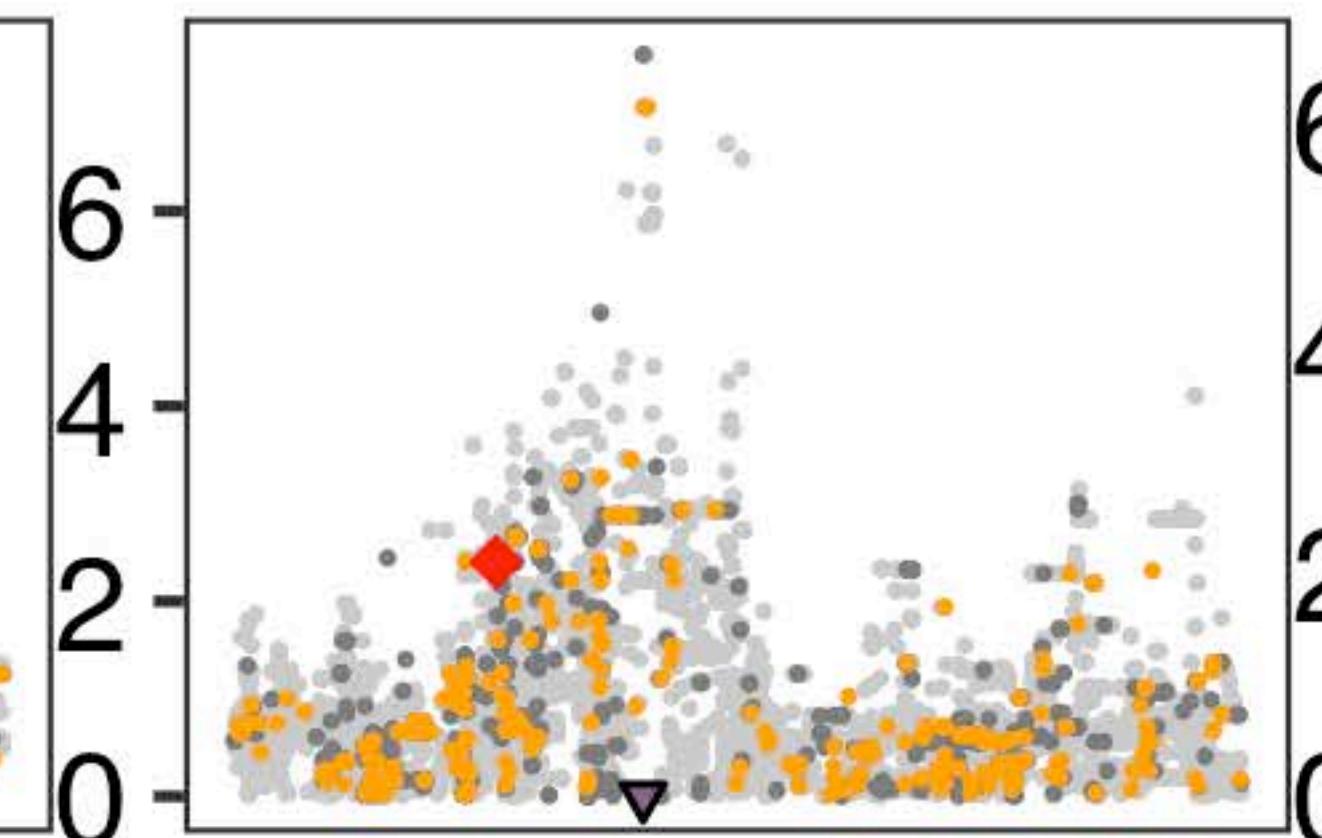
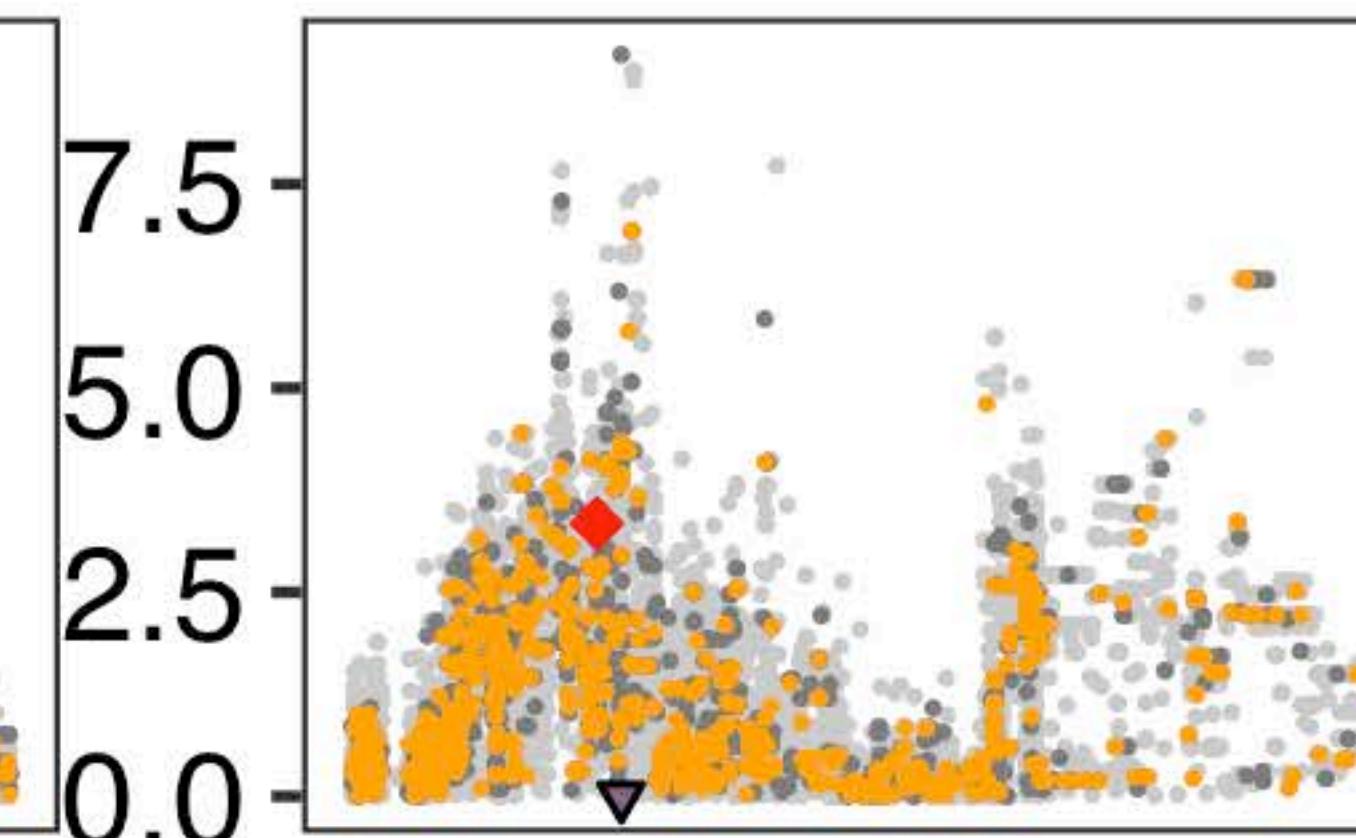
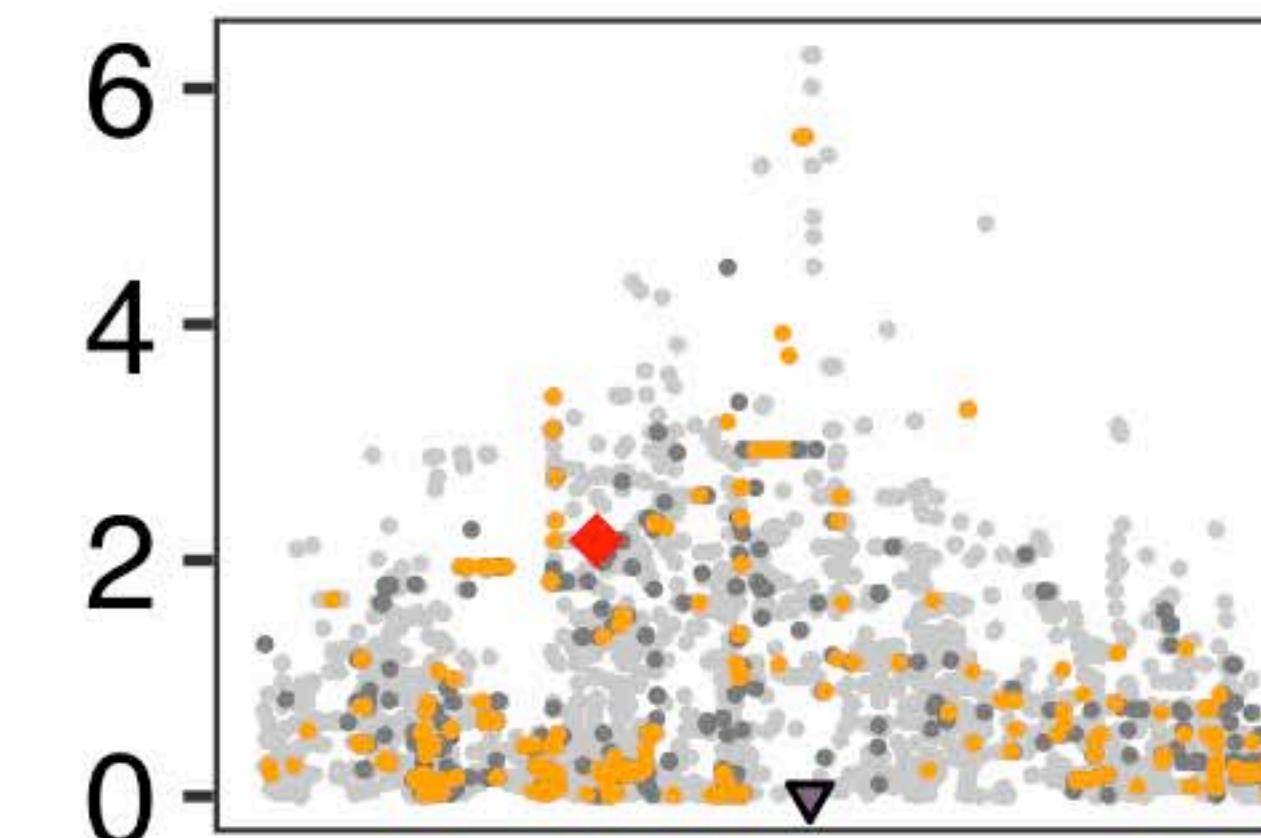
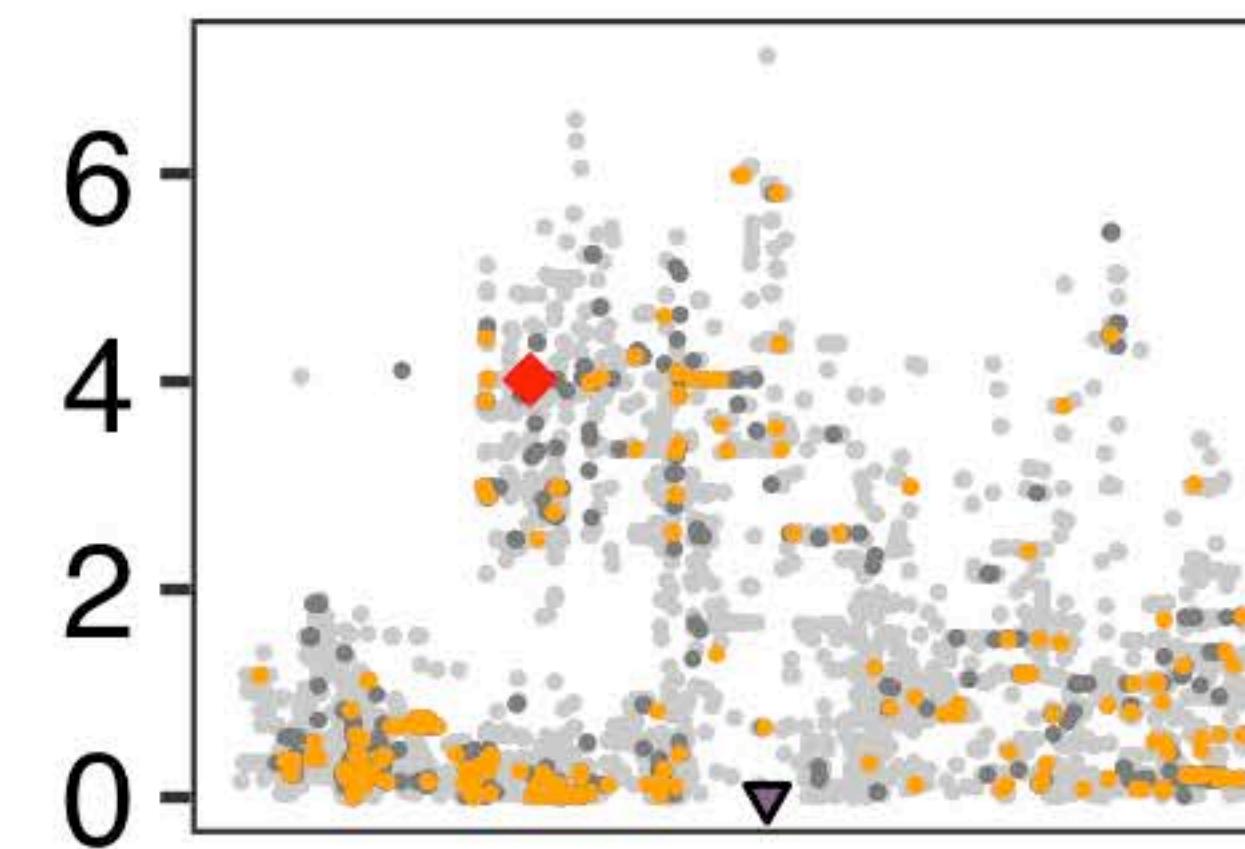
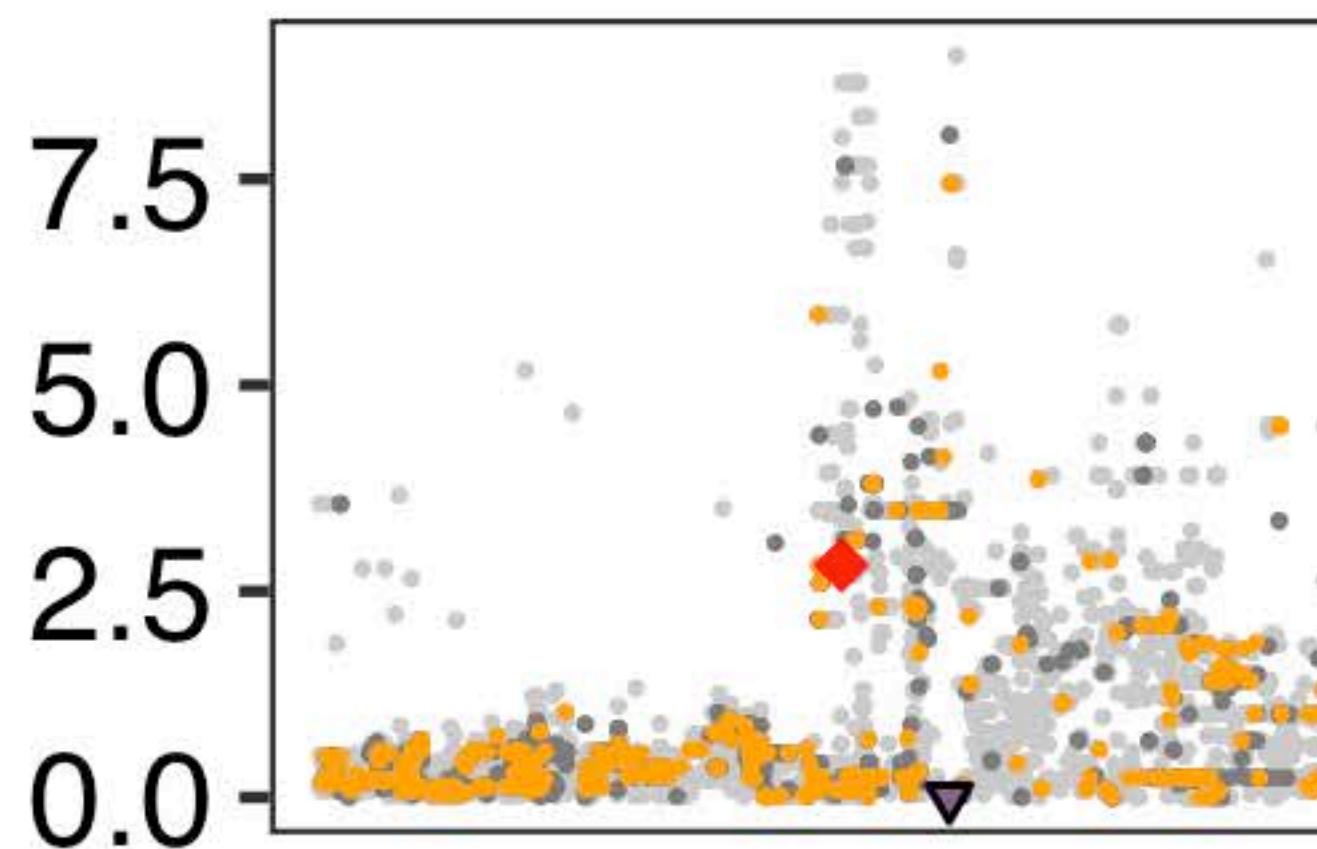
Chromosome IV: 42 cM

*C05D9.9a.1**C18G1.5.1**F22G12.5c.1**F29B9.2b.1**F49E12.12.1**F54D11.3**R119.6.2**R144.4b.1**T06A10.3a.1**W03F11.1b.1**W10D9.4b.1**Y68A4A.13.1**Y80D3A.5.2*

Genomic position (Mb)

Candidate genes ◆ *nhr-5* $-\log_{10}(p)$ Candidate genes ◆ *nhr-5*

Chromosome V: 14.5 cM

*F32B6.6.1**K01D12.15.1**K04A8.4a.1**R13H4.2a.2* $-\log_{10}(p)$ *T08E11.3.1**ZK180.4.2*

Genomic position (Mb)

Candidate genes

◆ *nhr-181*

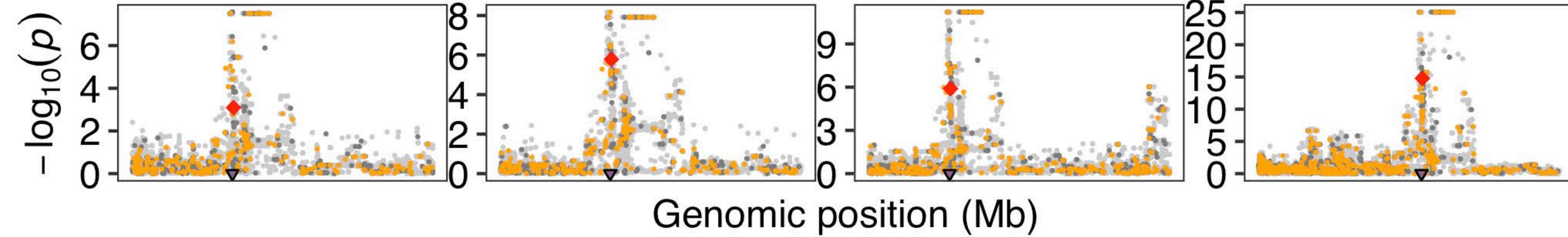
Chromosome V: 21 cM

B0213.5.1

C08G5.4b.1

T13H5.3.1

T23B12.5.1



Candidate genes ◆ *nhr-148*

Chromosome V: 23 cM

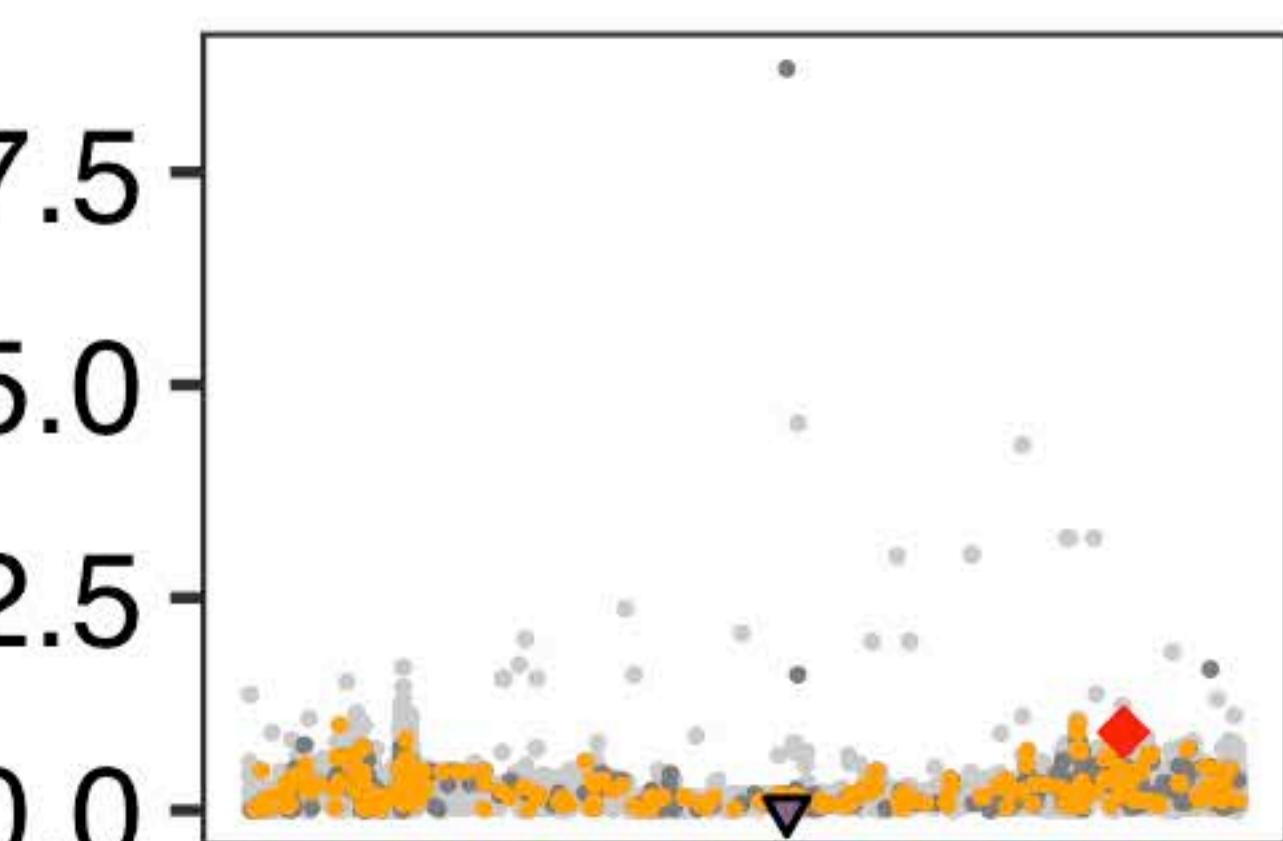
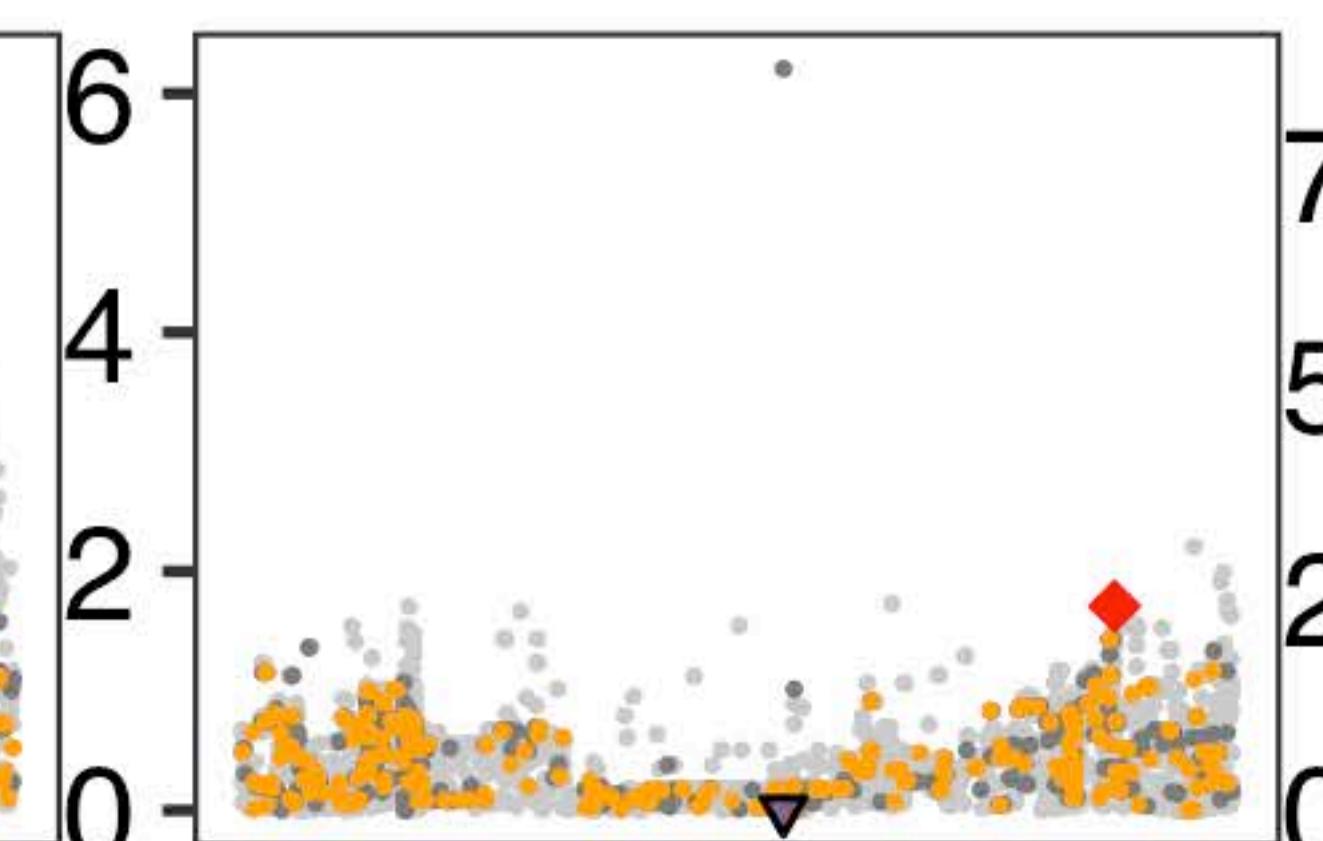
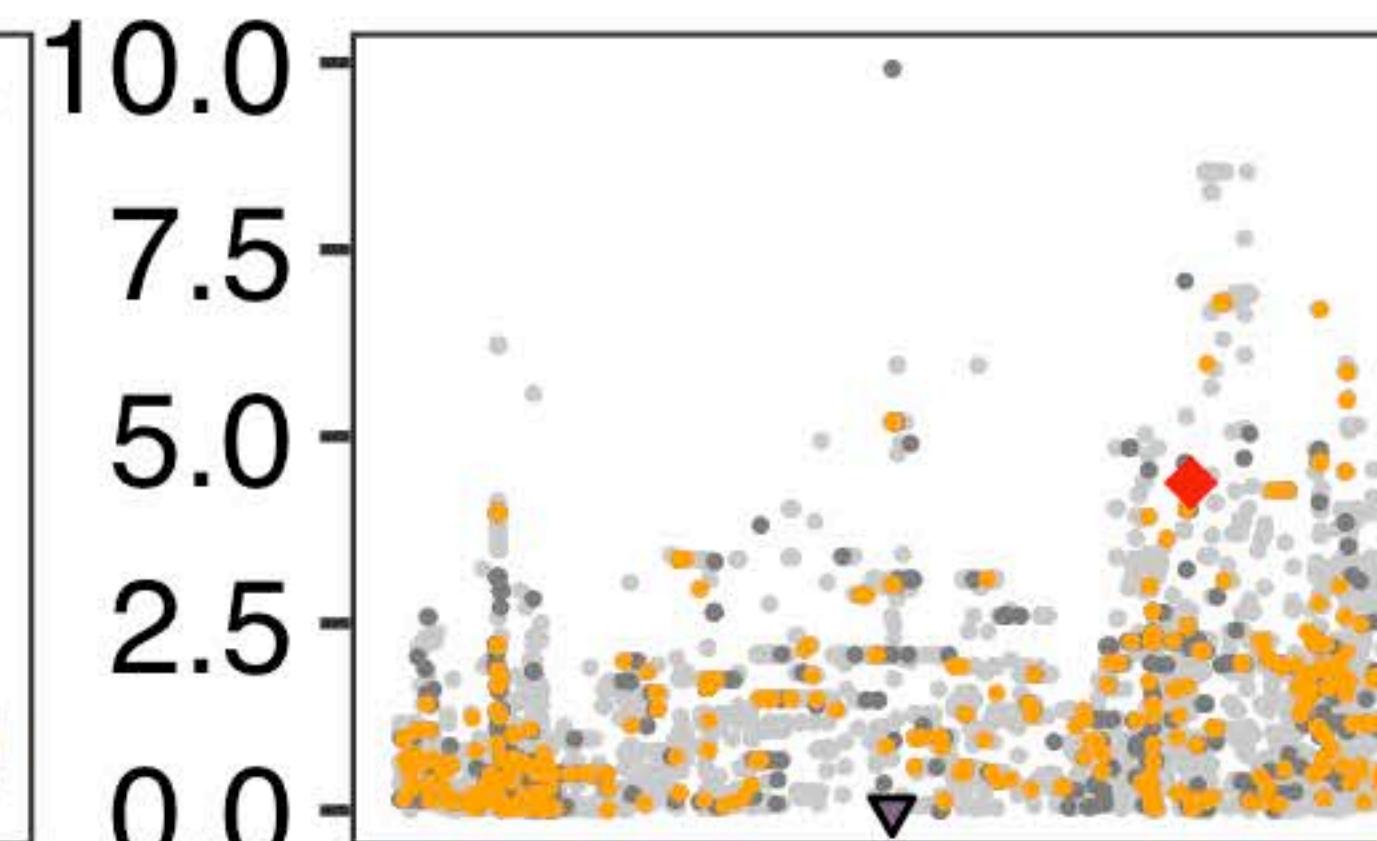
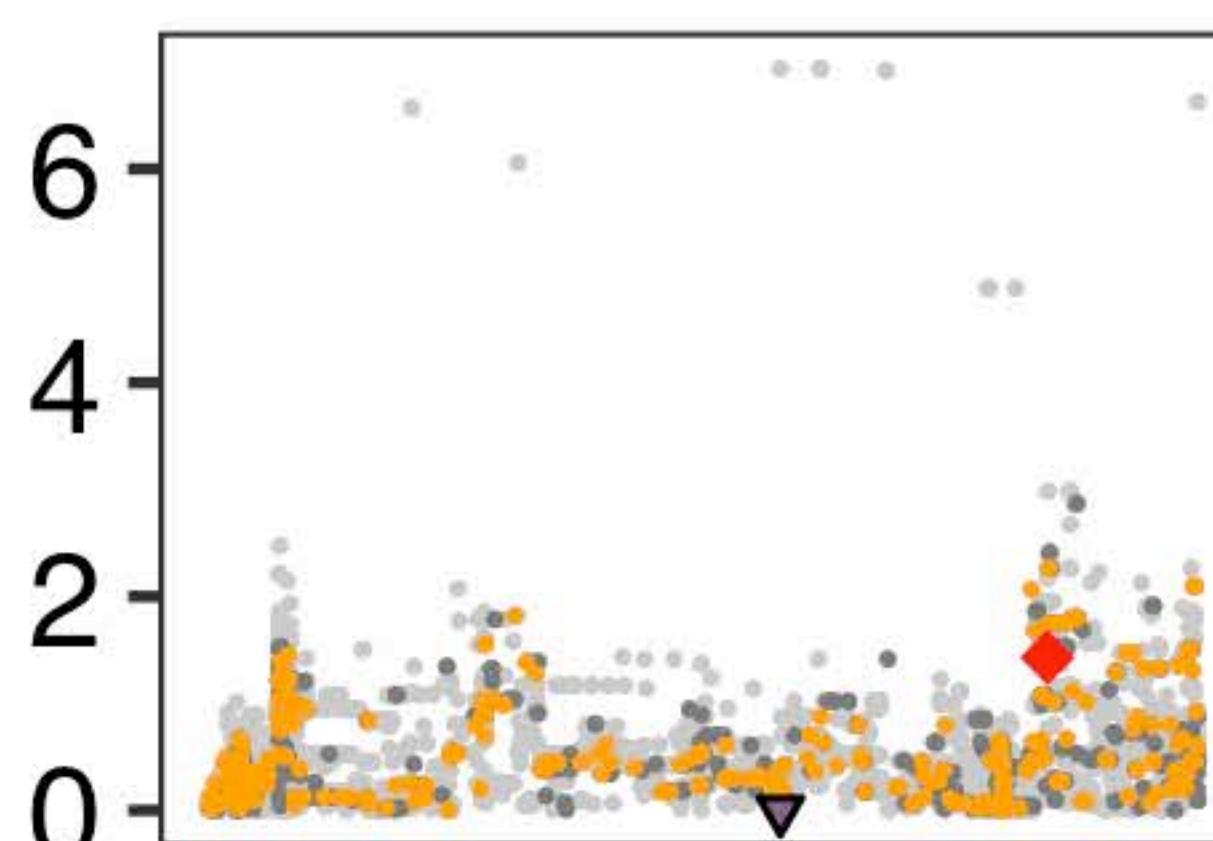
F21C10.9.2

K10C8.1.1

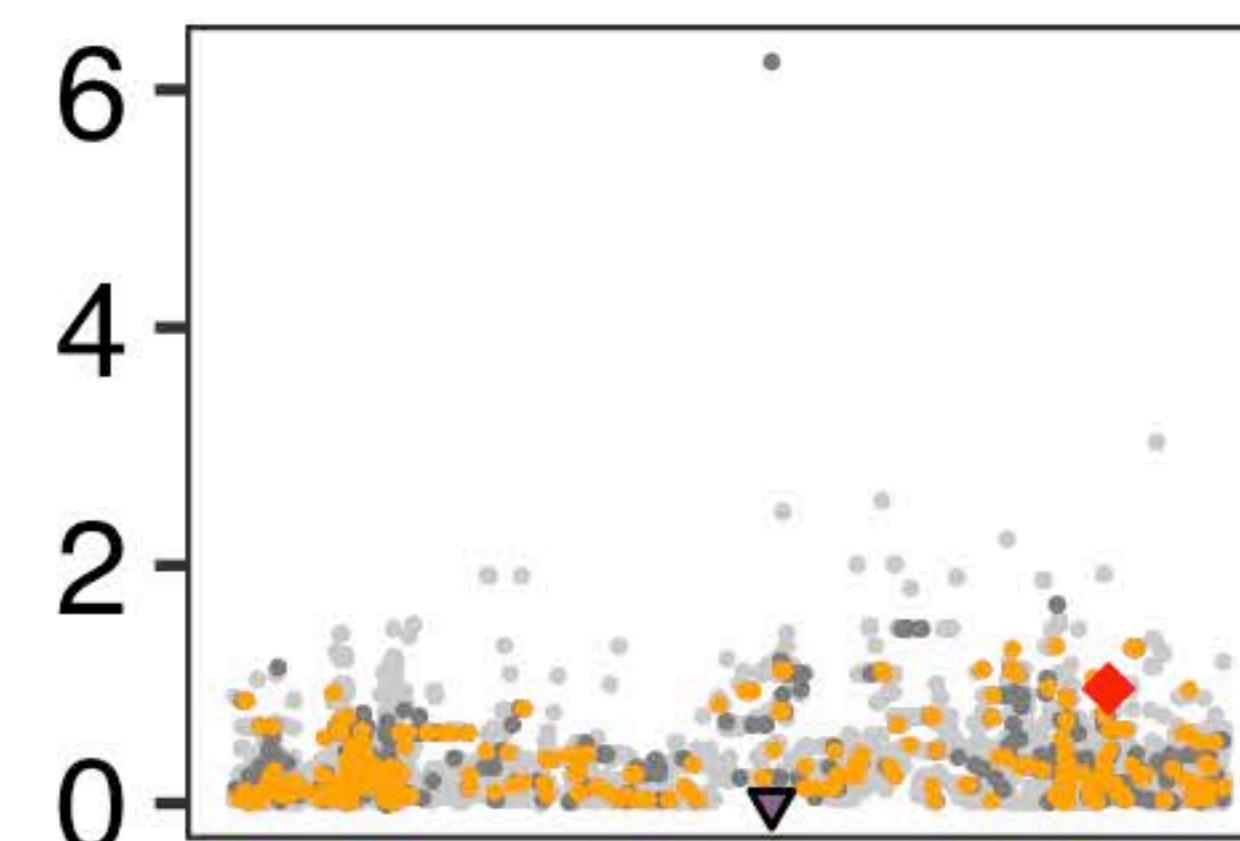
Y108G3AL.2.2

Y38C1AB.8b.1

$-\log_{10}(p)$



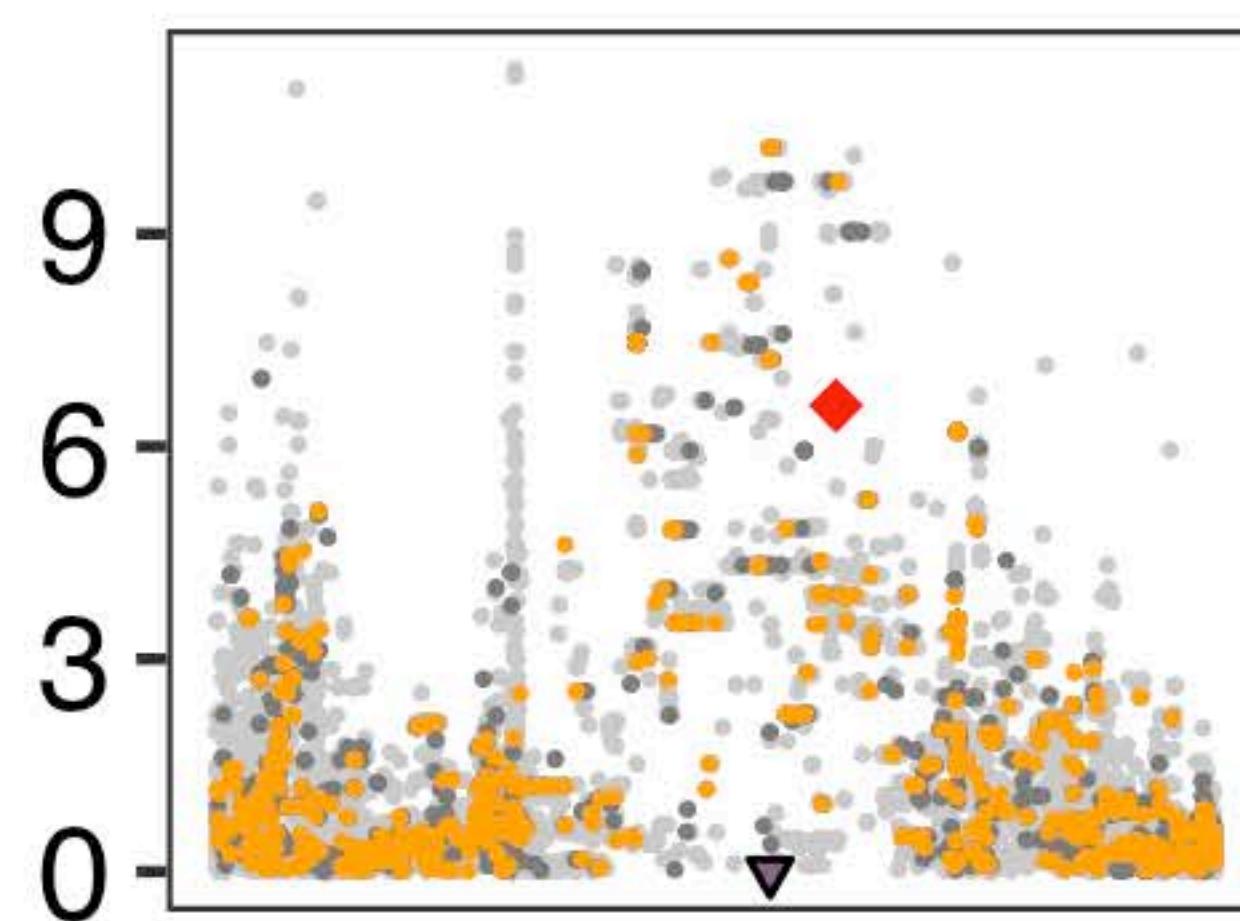
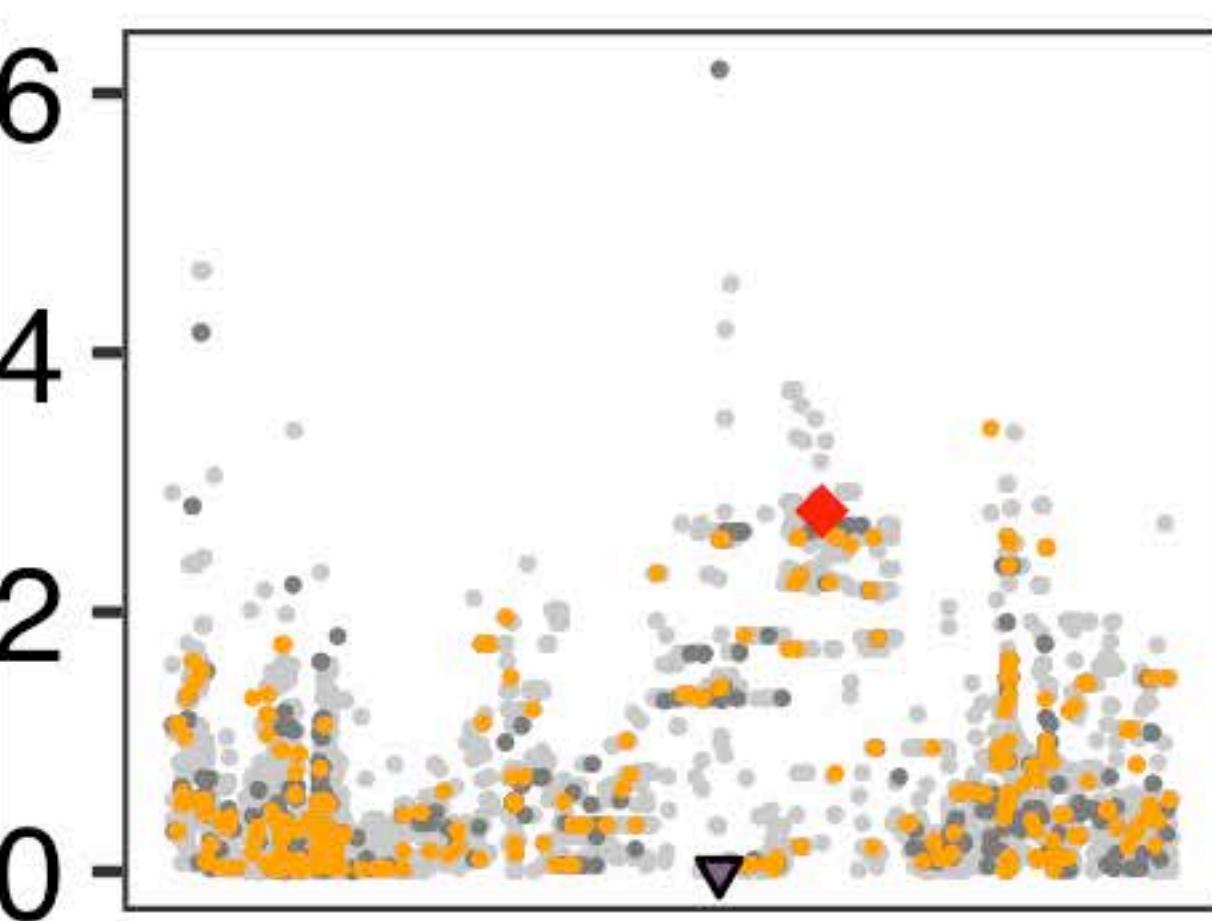
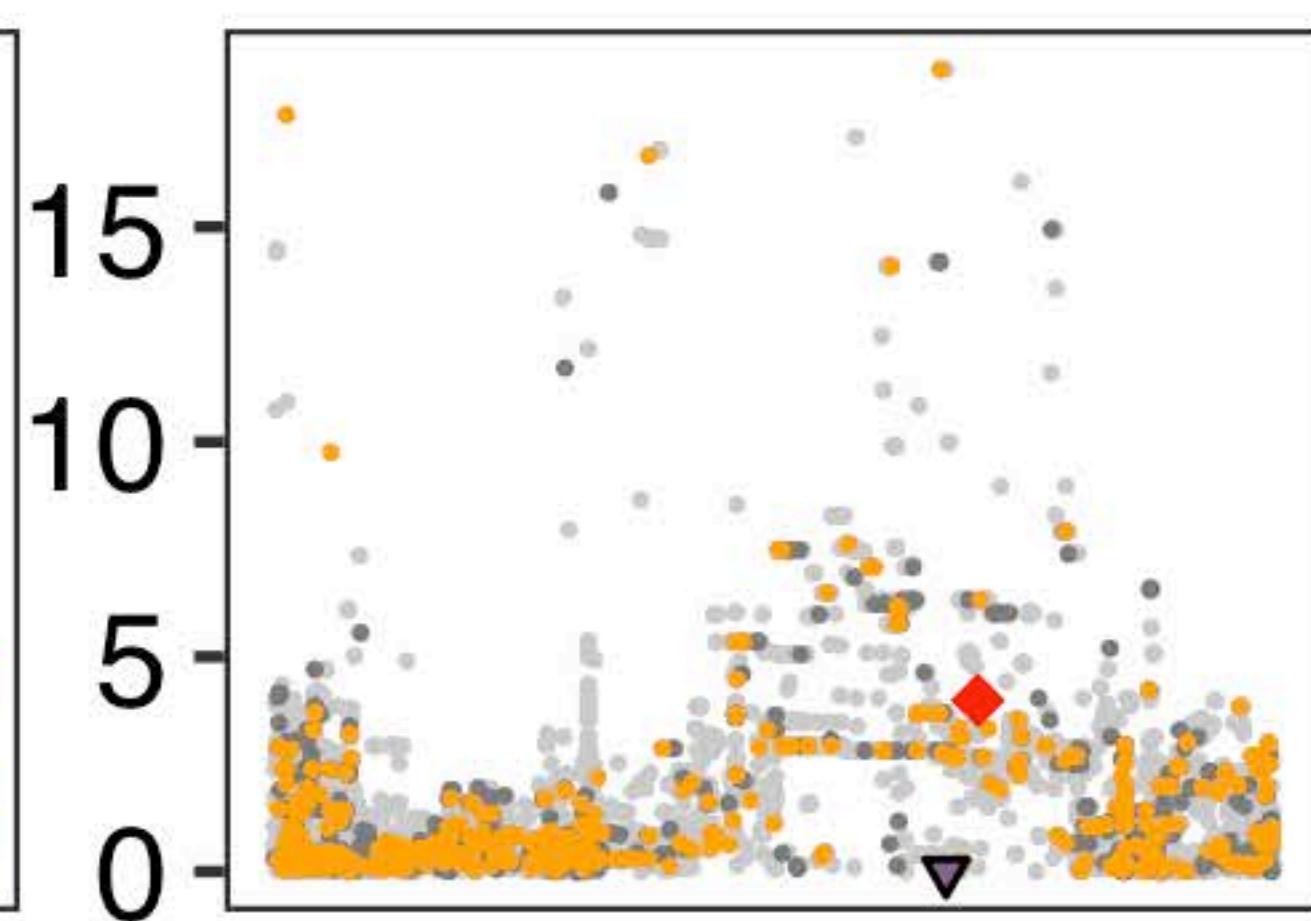
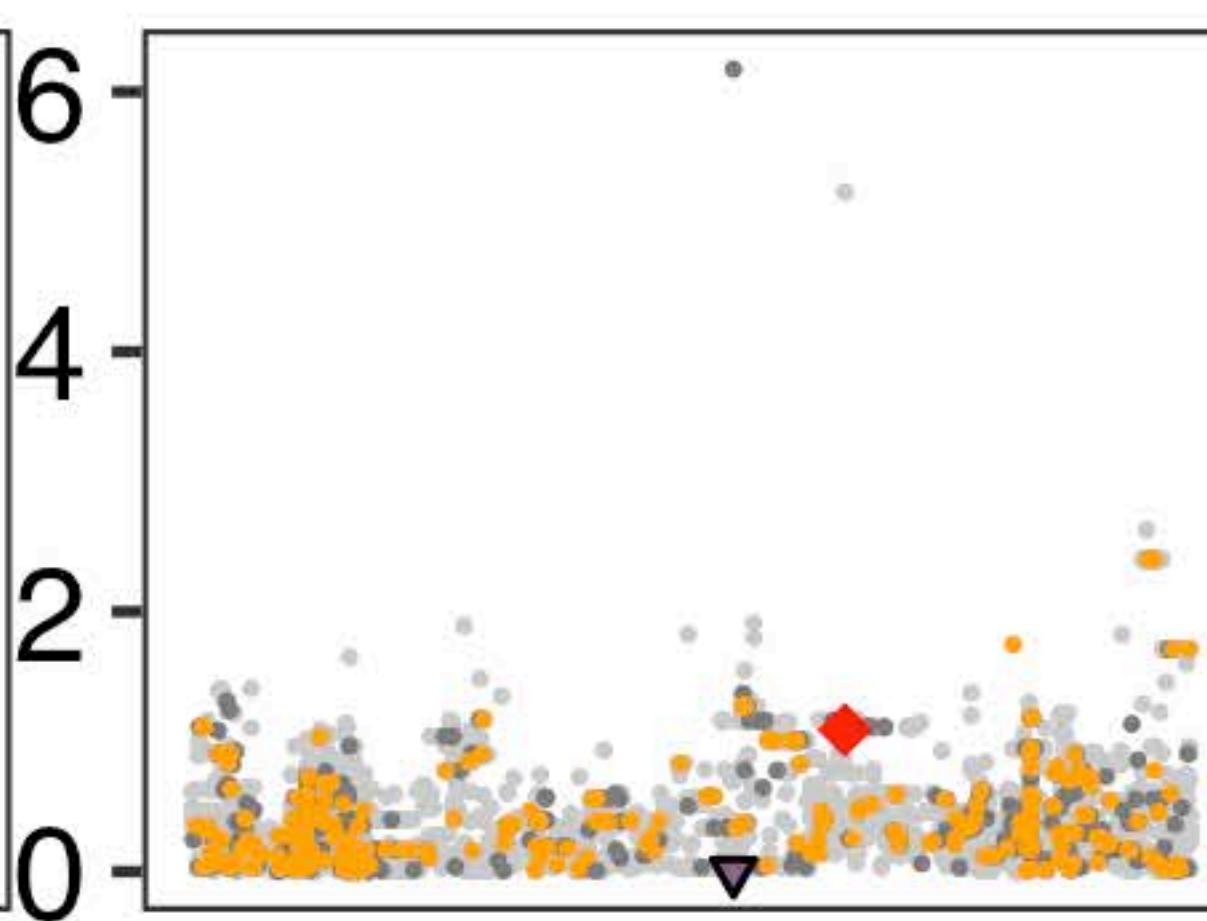
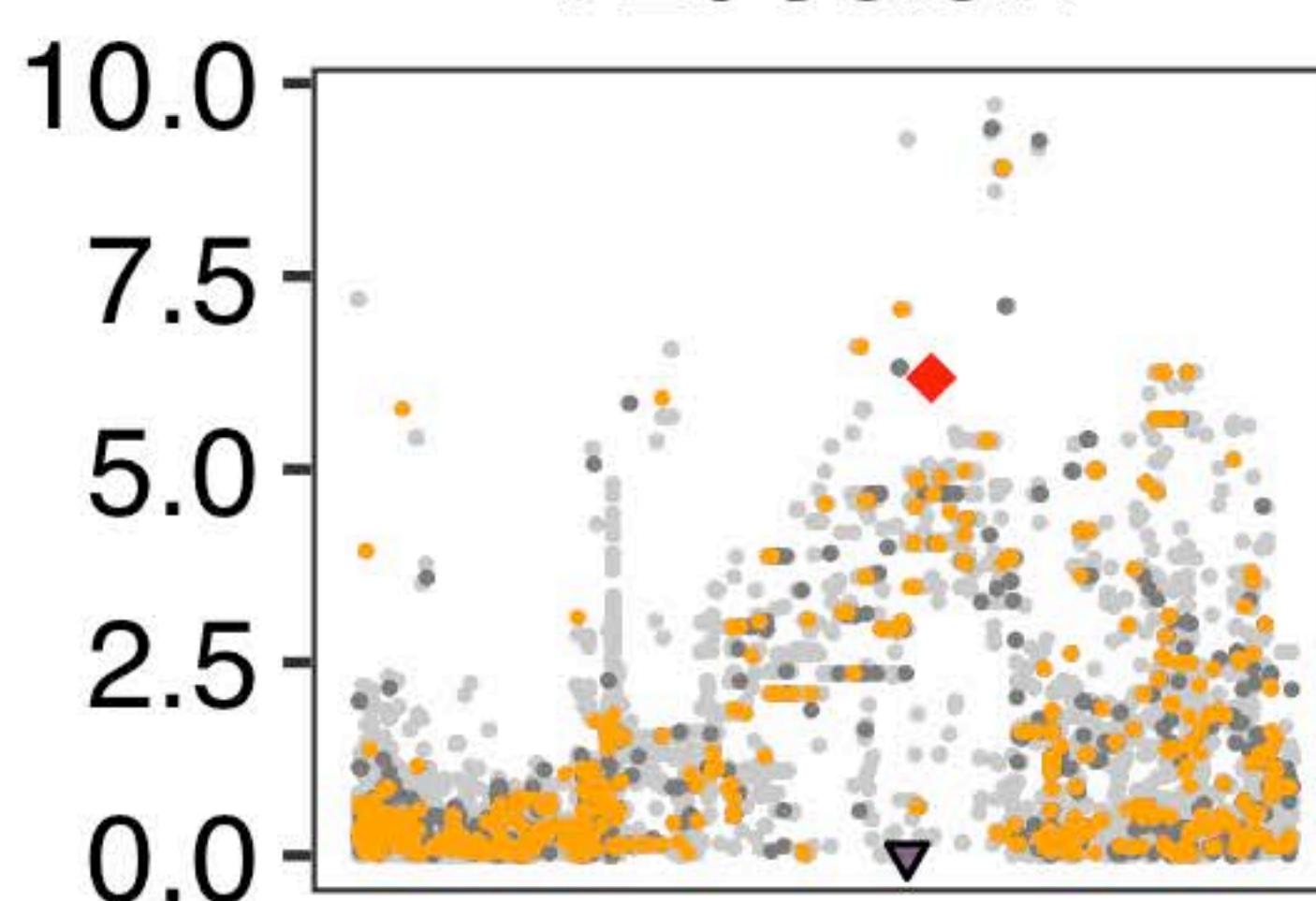
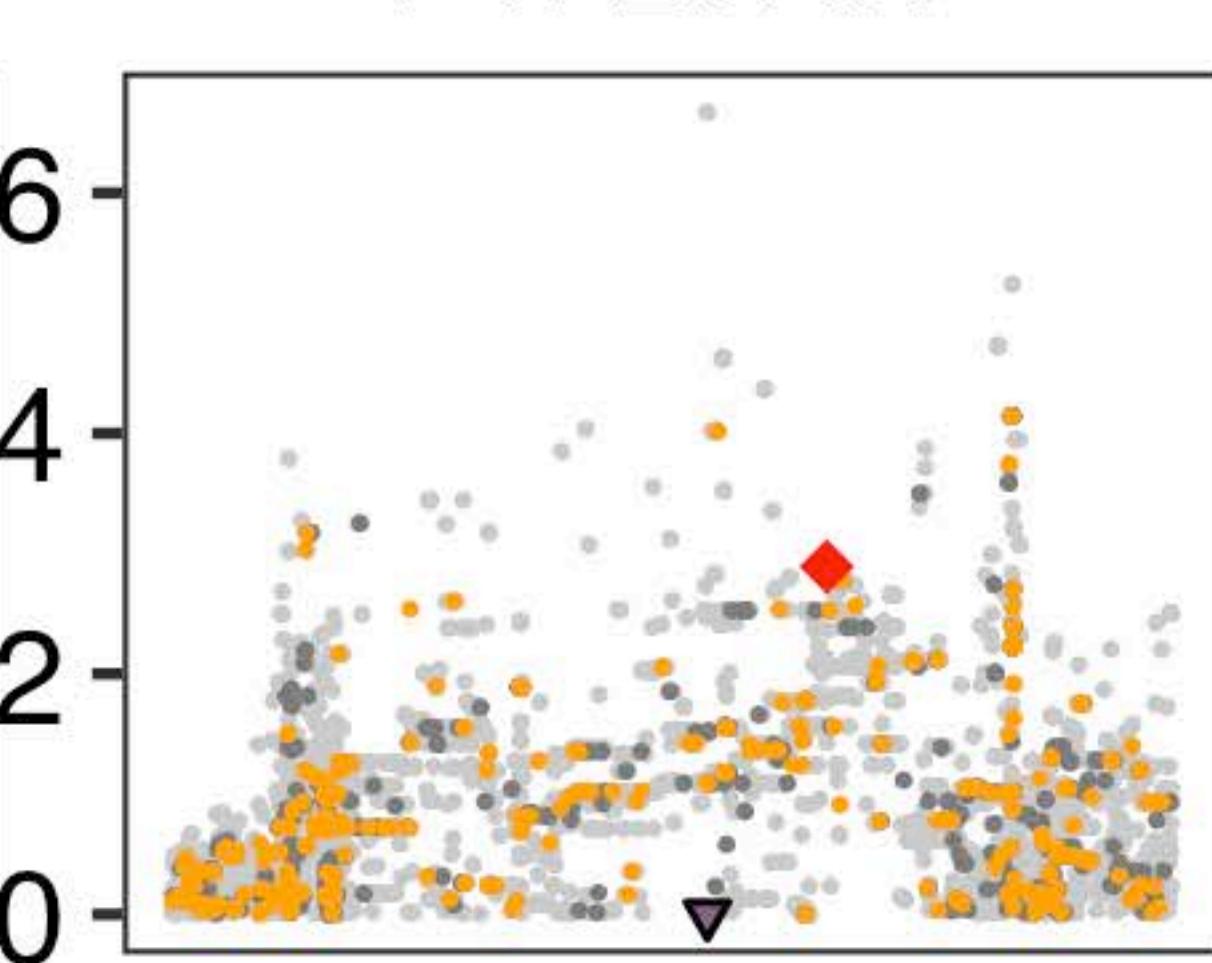
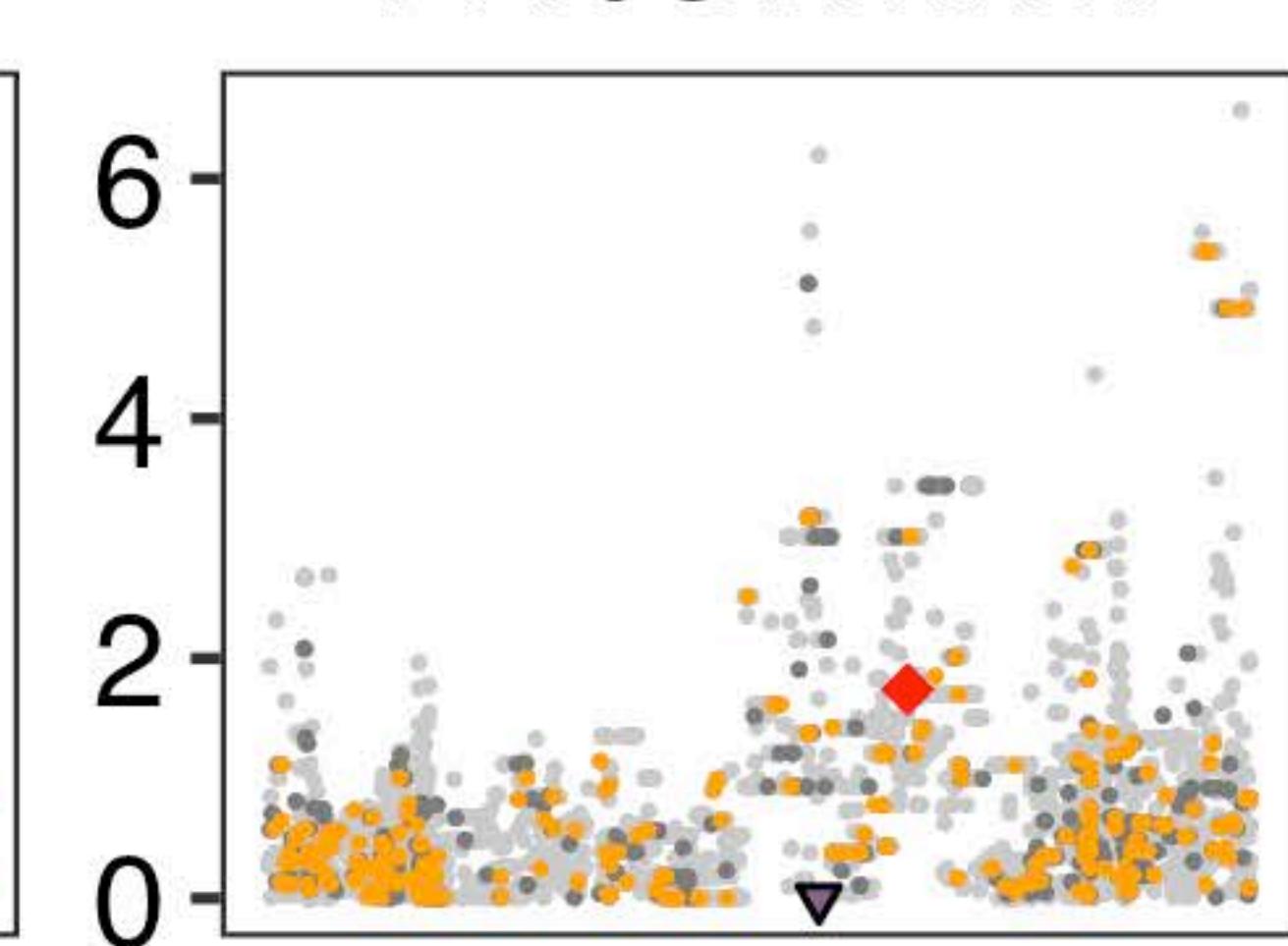
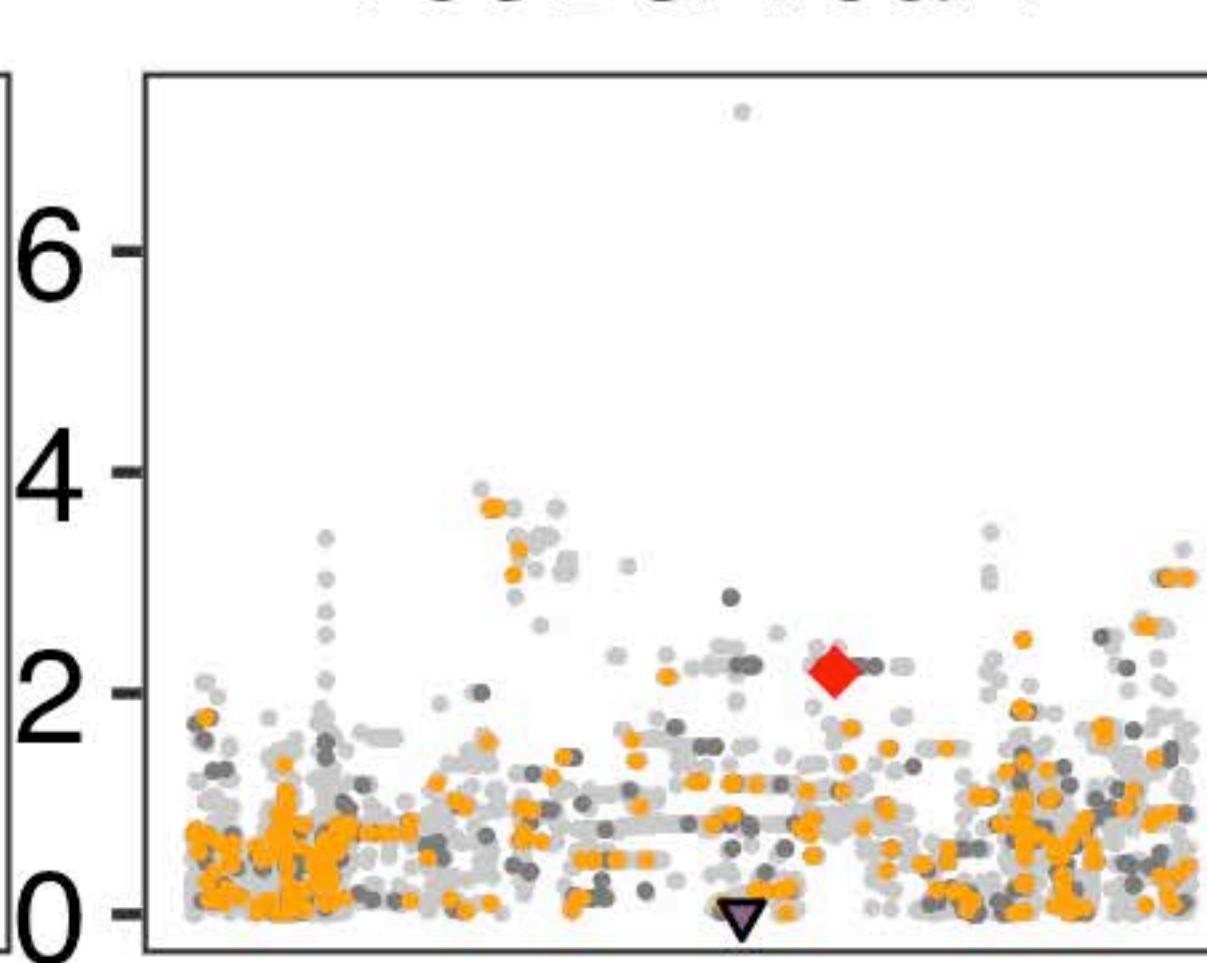
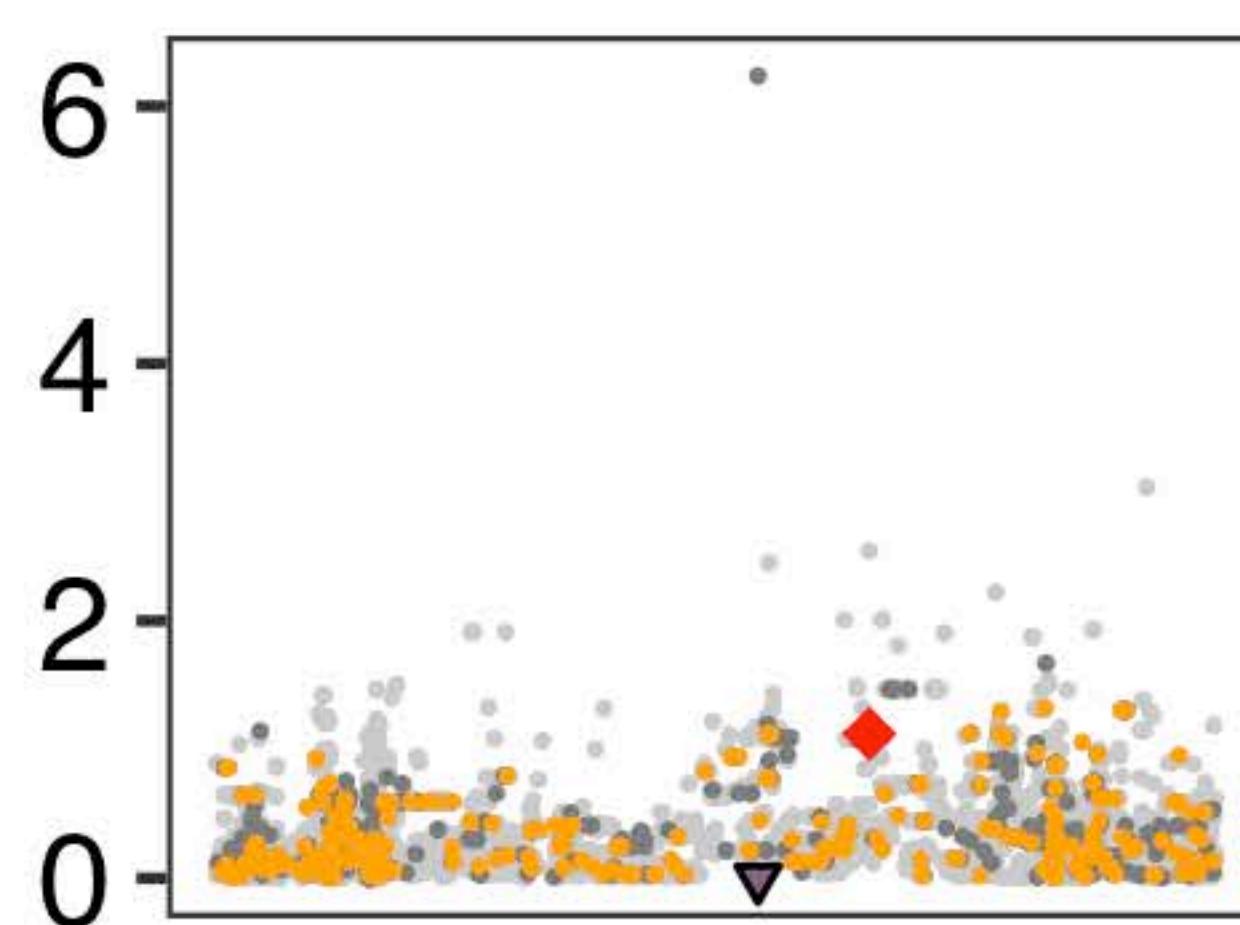
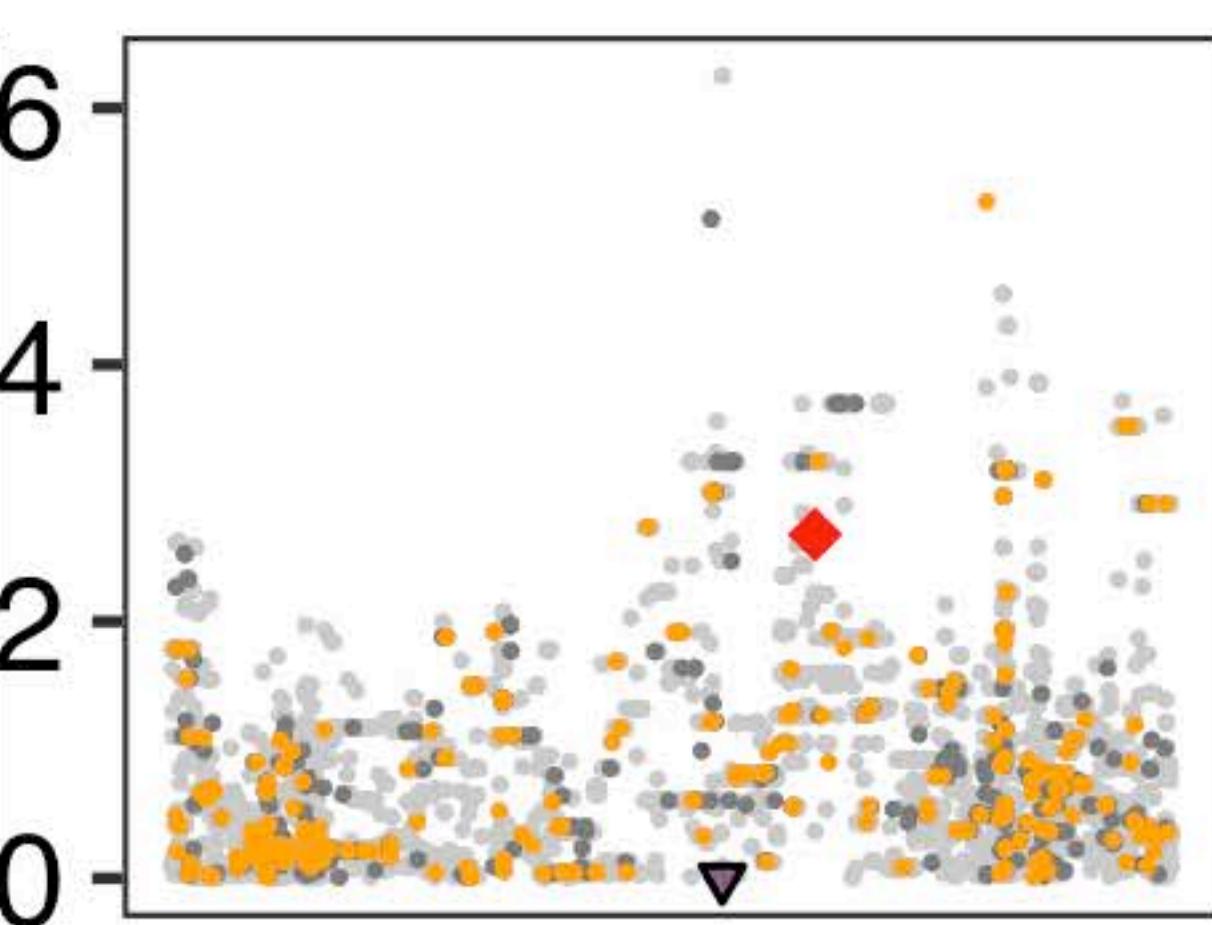
Y74C9A.2a.2



Genomic position (Mb)

Candidate genes *cky-1*

Chromosome V: 23 cM

B0238.15.1*C07D8.6.2**D1014.3b.1**F12A10.2**F20C5.5.1**F47E1.4.1**VY10G11R.1.1**Y63D3A.6a.1**Y74C9A.2a.2**ZK177.1.1*

Genomic position (Mb)

Candidate genes

◆ *jmjd-5*

Chromosome V: 23 cM

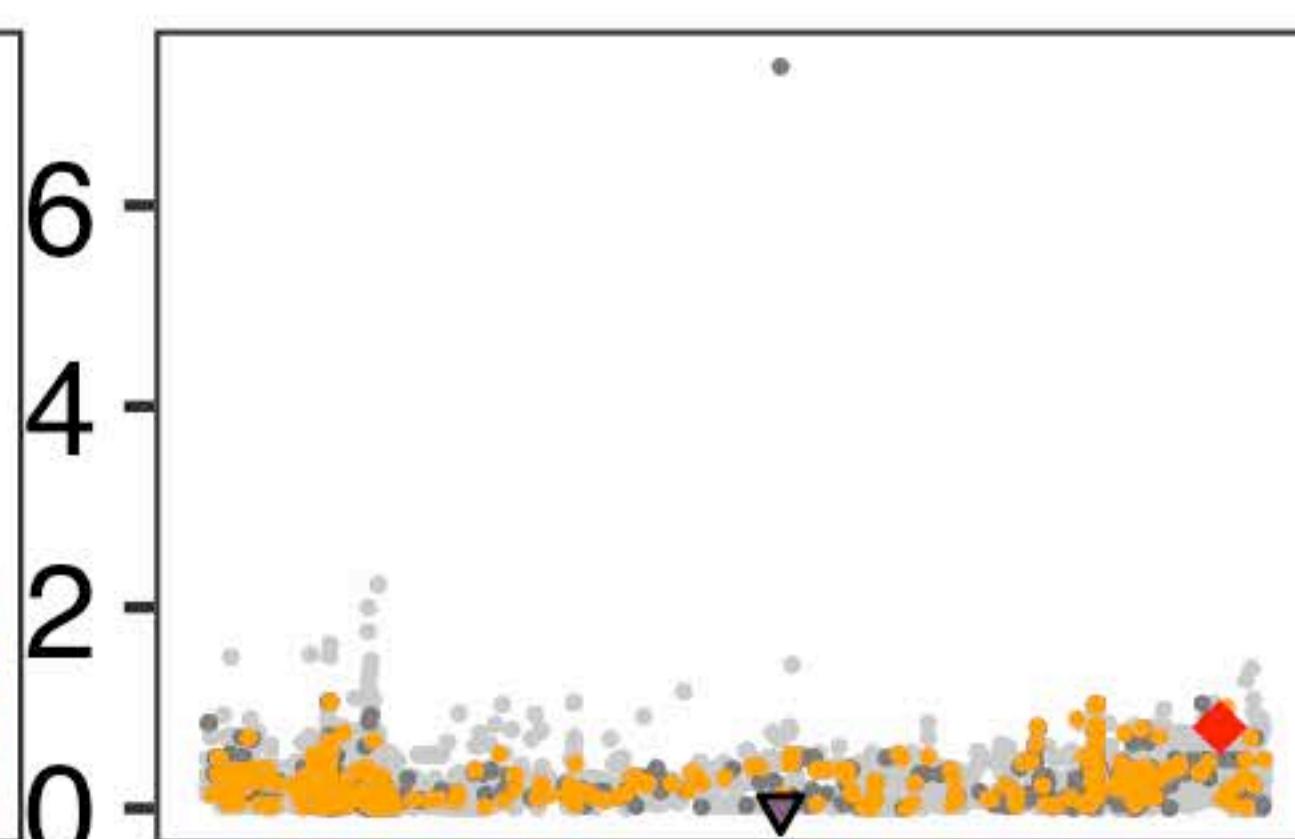
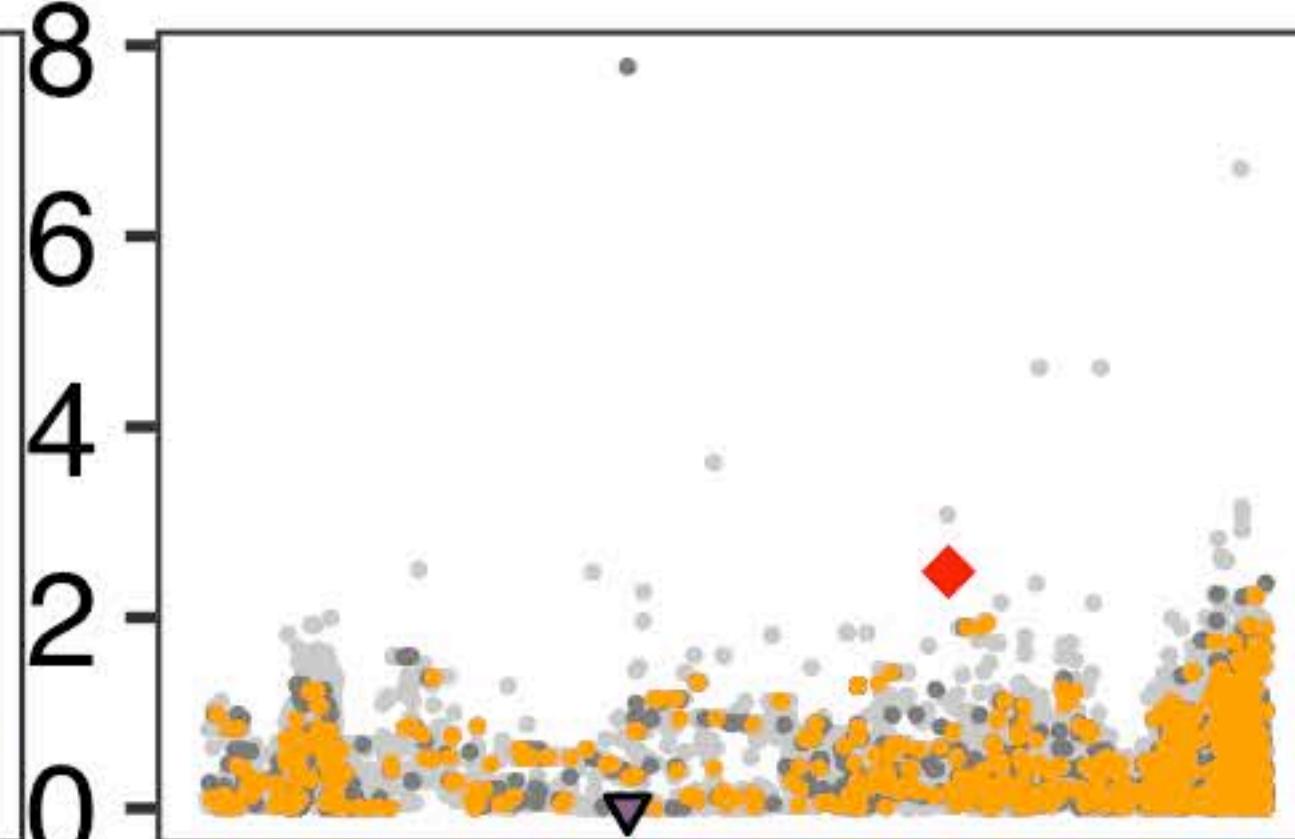
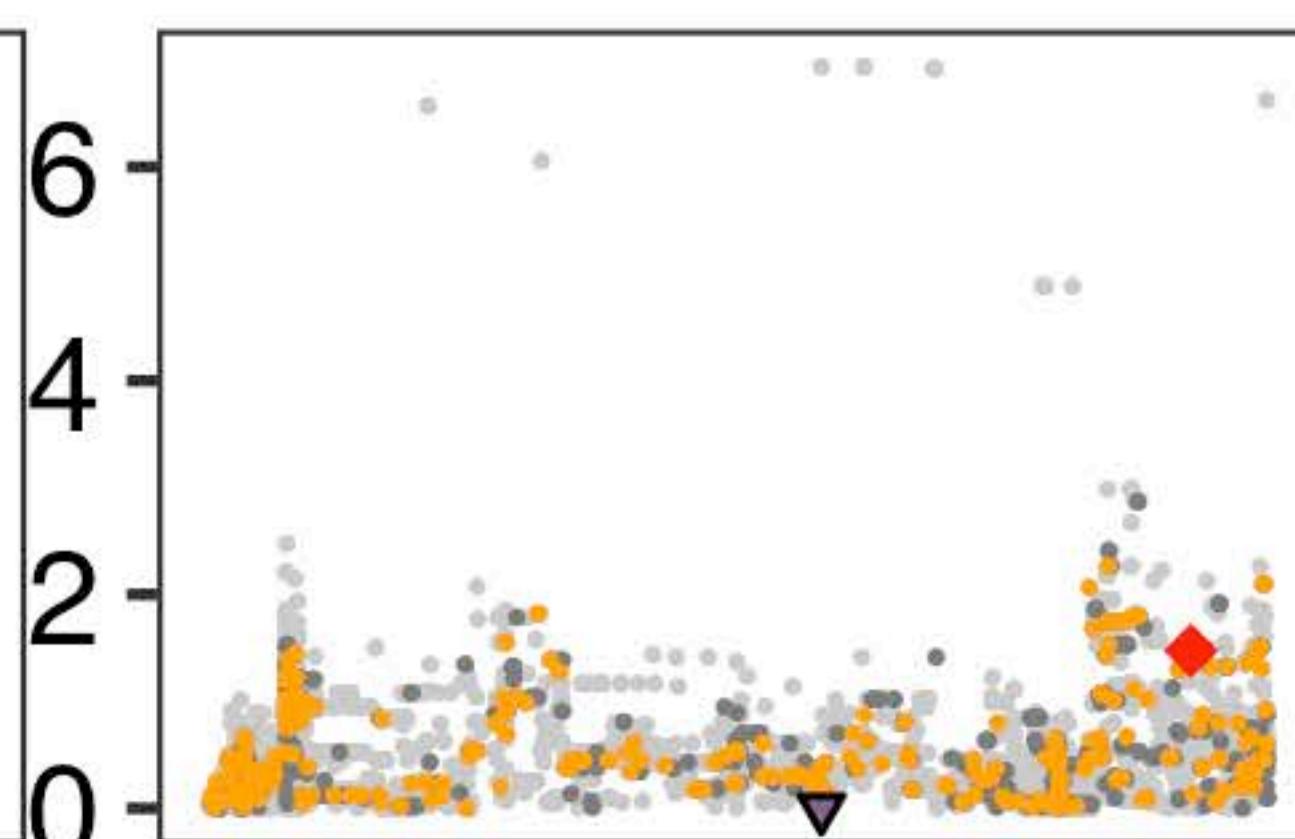
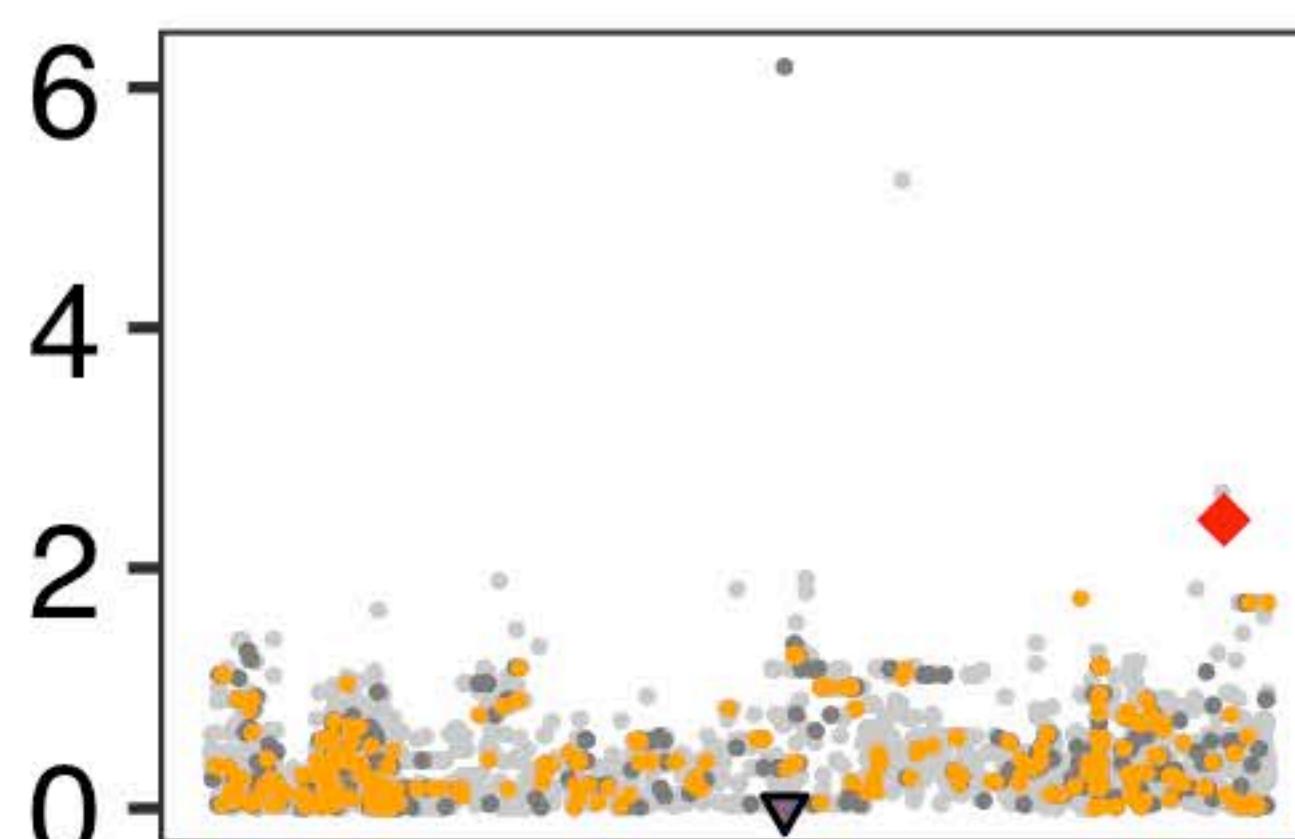
F12A10.2

F21C10.9.2

F46F5.5.1

R10E4.2g.2

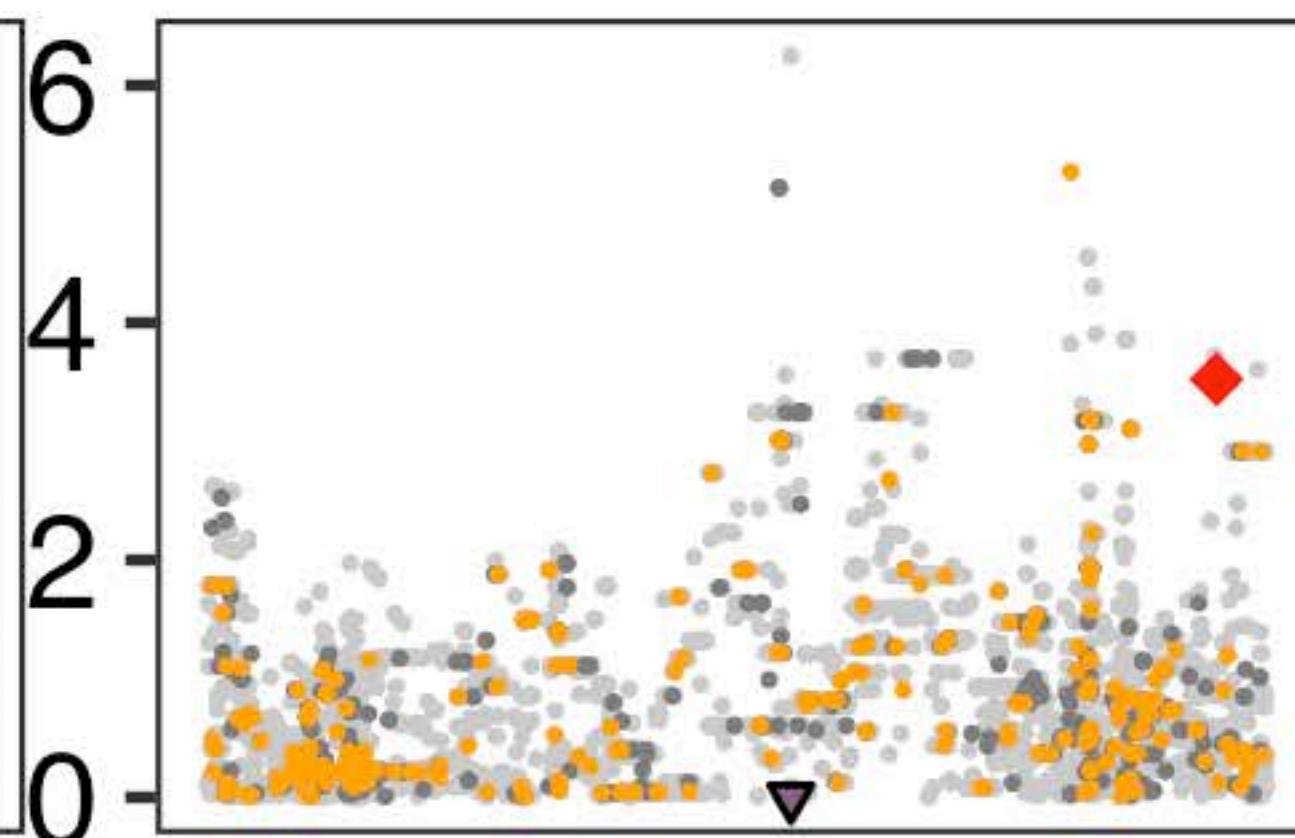
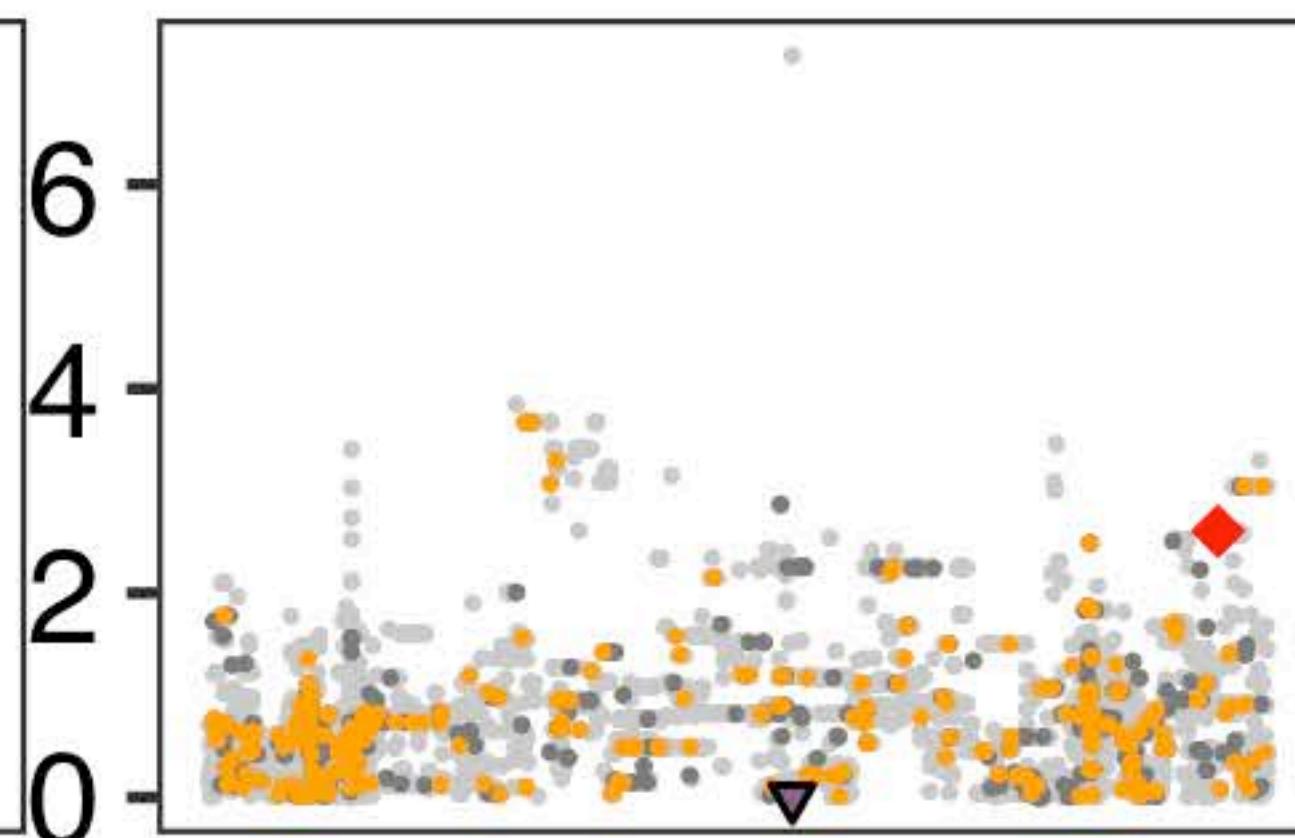
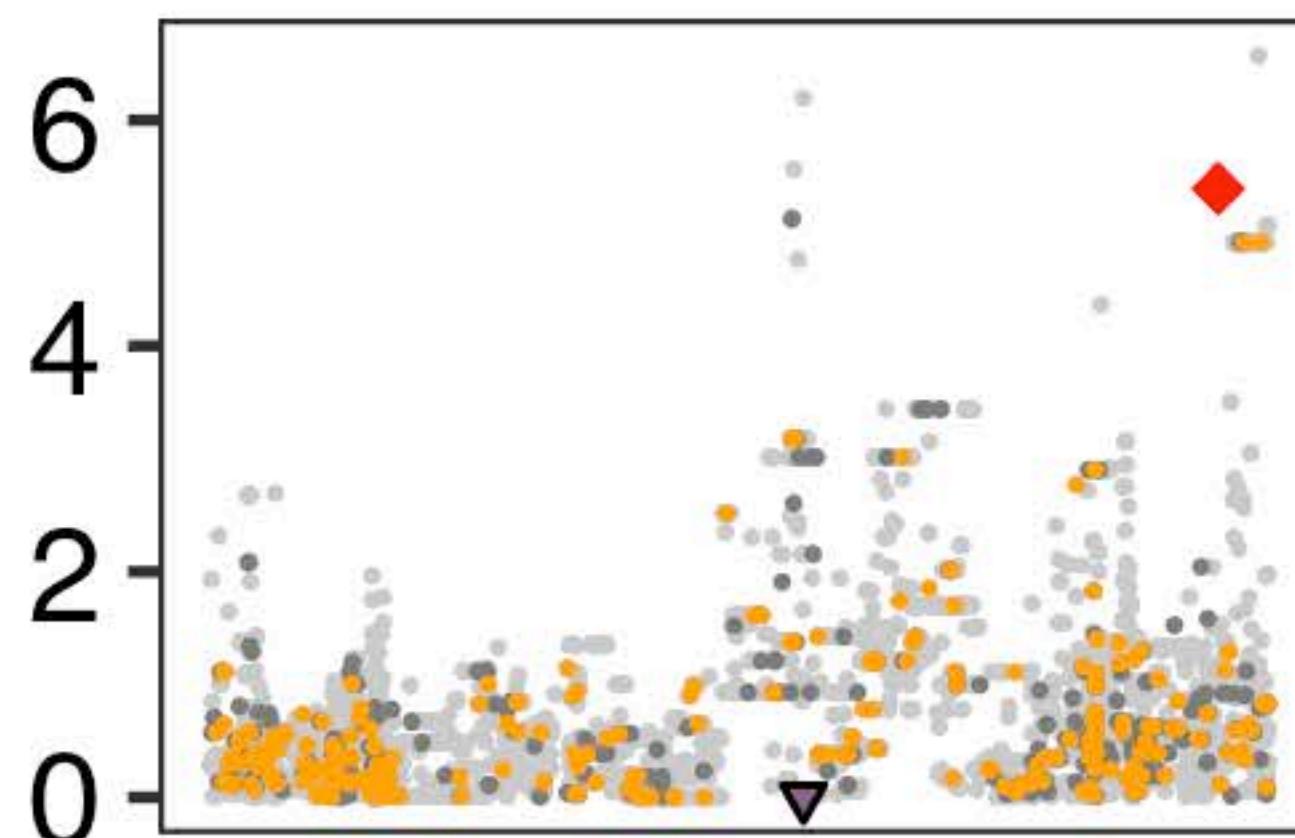
$-\log_{10}(p)$



VY10G11R.1.1

Y63D3A.6a.1

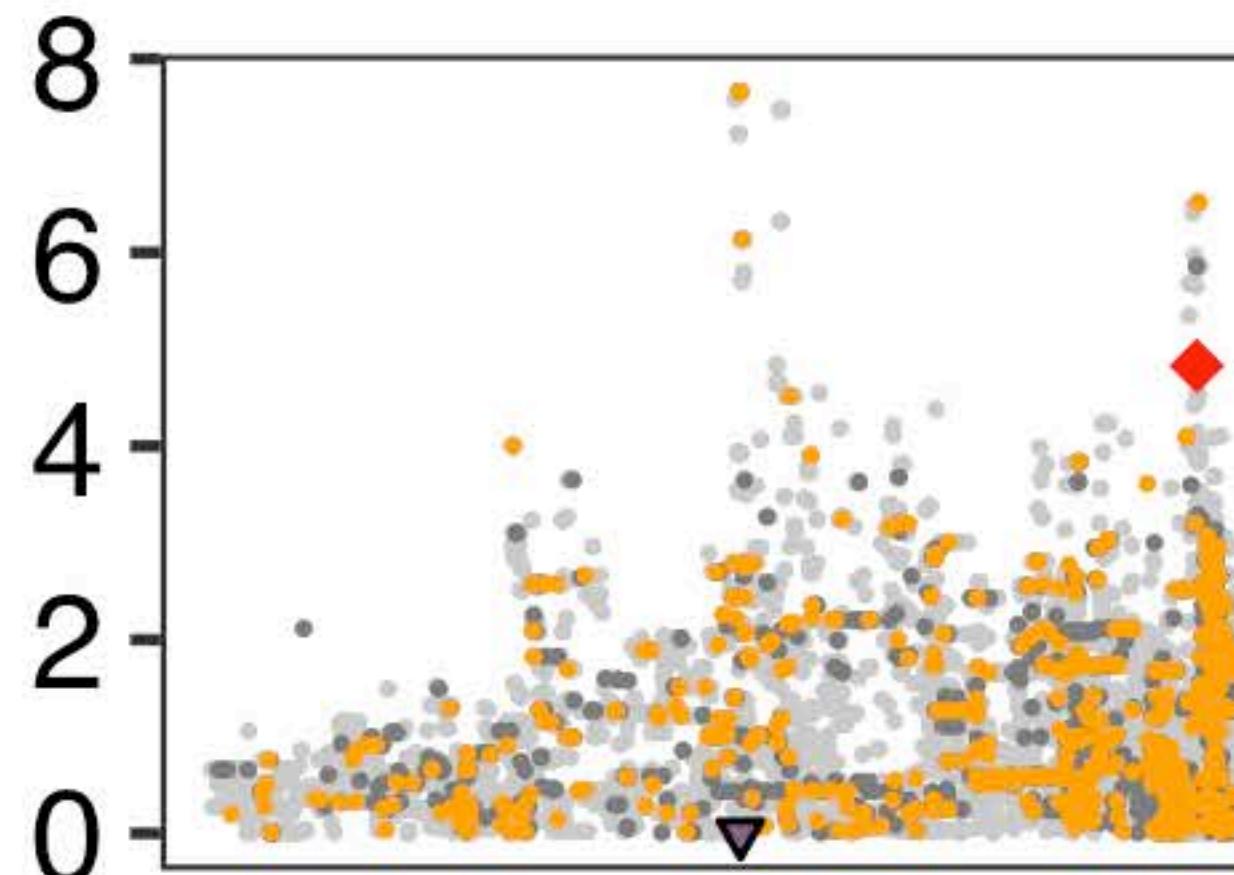
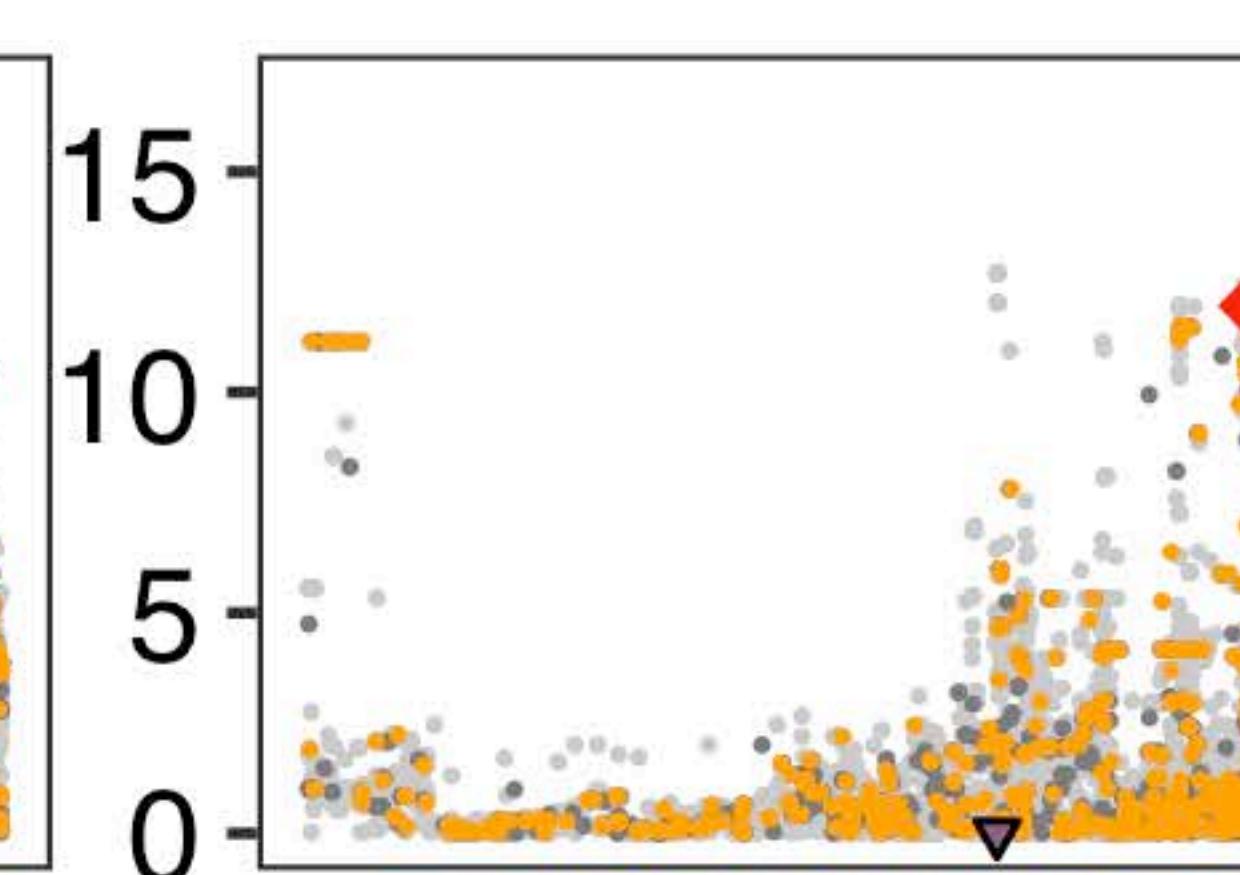
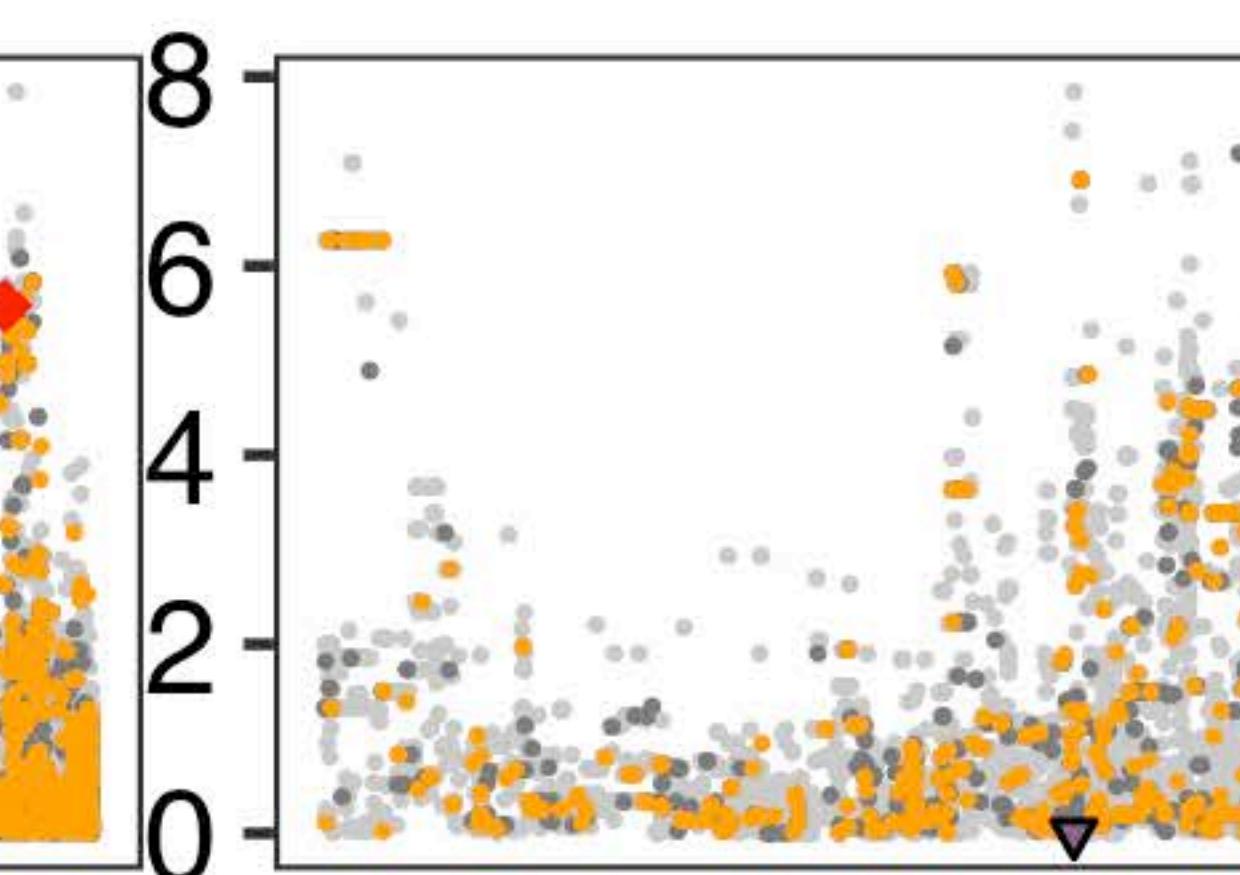
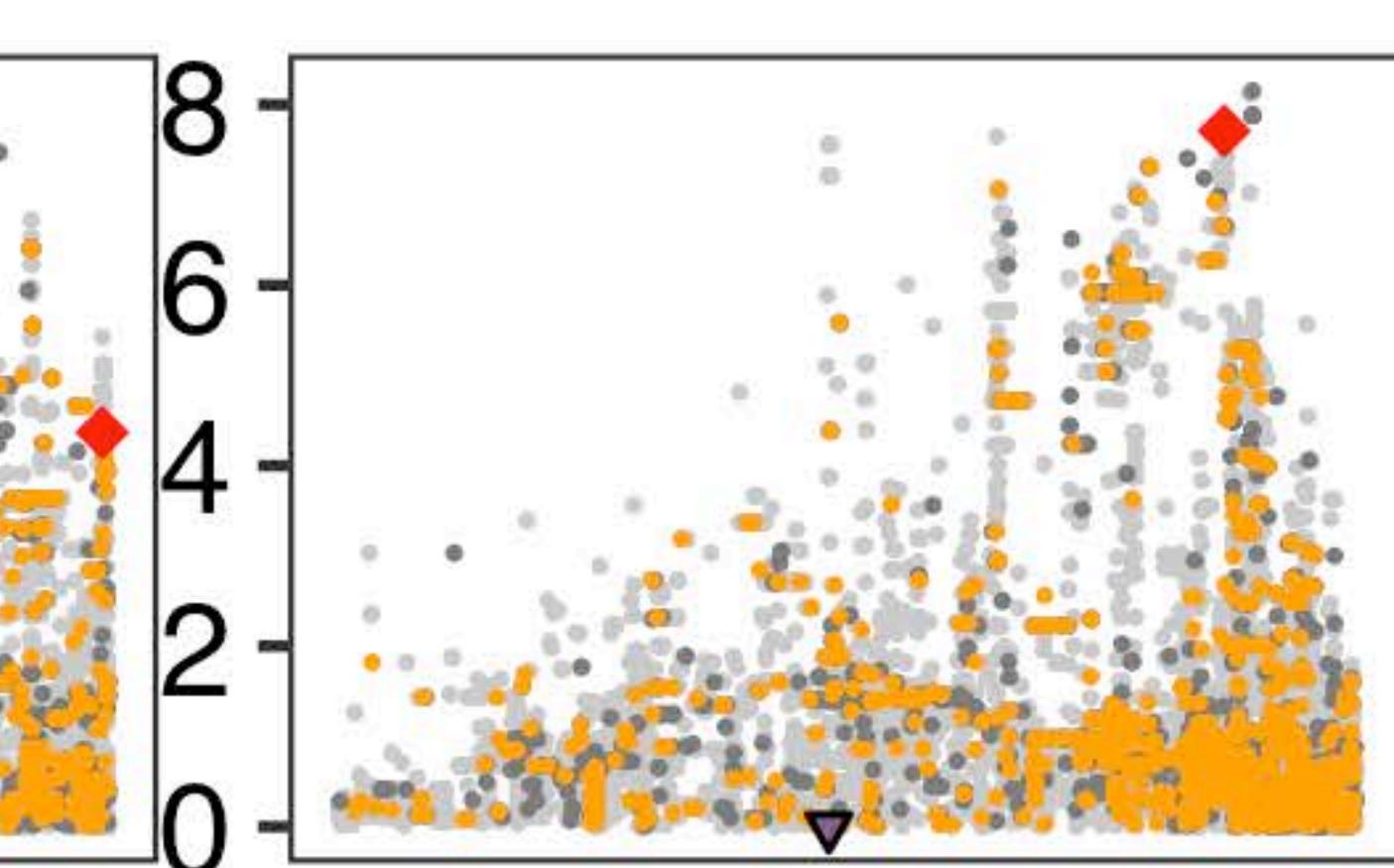
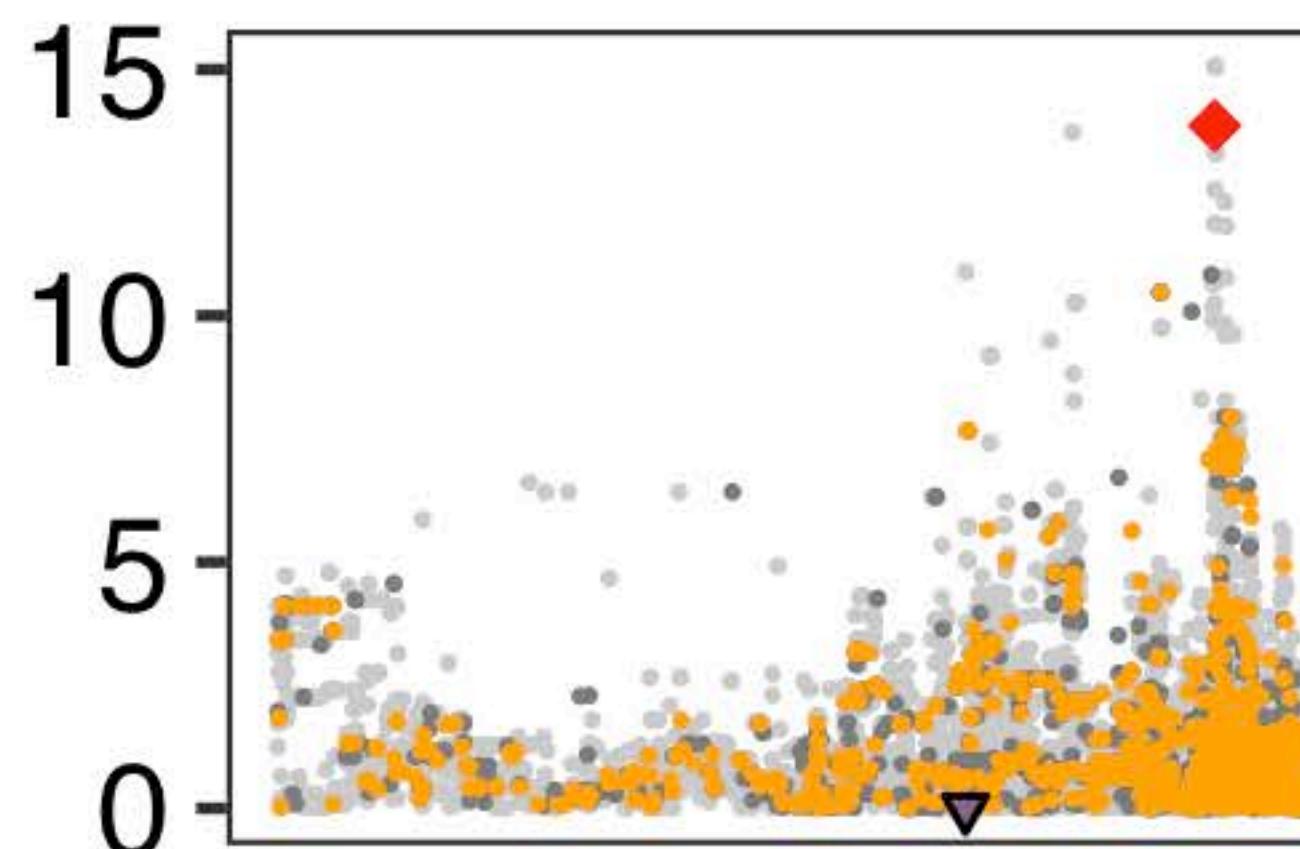
ZK177.1.1



Genomic position (Mb)

Candidate genes ◆ *zip-5*

Chromosome V: 26 cM

C07H6.7.1 $-\log_{10}(p)$ *F25E5.4.1**M195.2b.1**W02G9.2c.1**Y87G2A.16.1*

Genomic position (Mb)

Candidate genes

◆ *nhr-84*

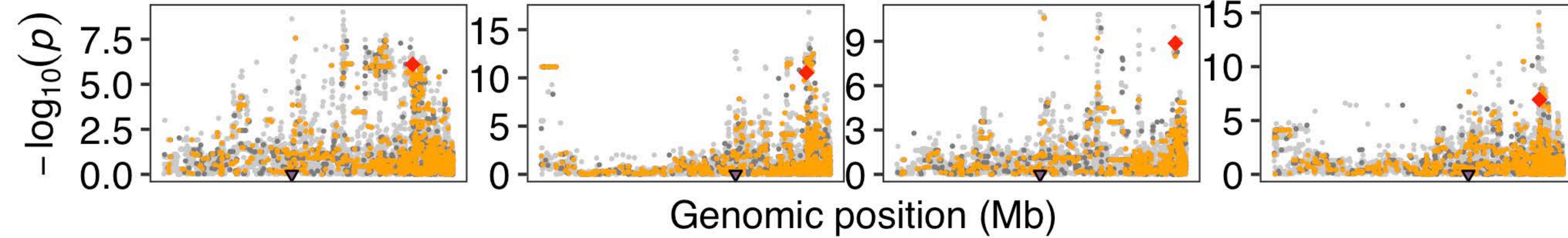
Chromosome V: 26 cM

D2085.5c.1

F25E5.4.1

W06H3.3.1

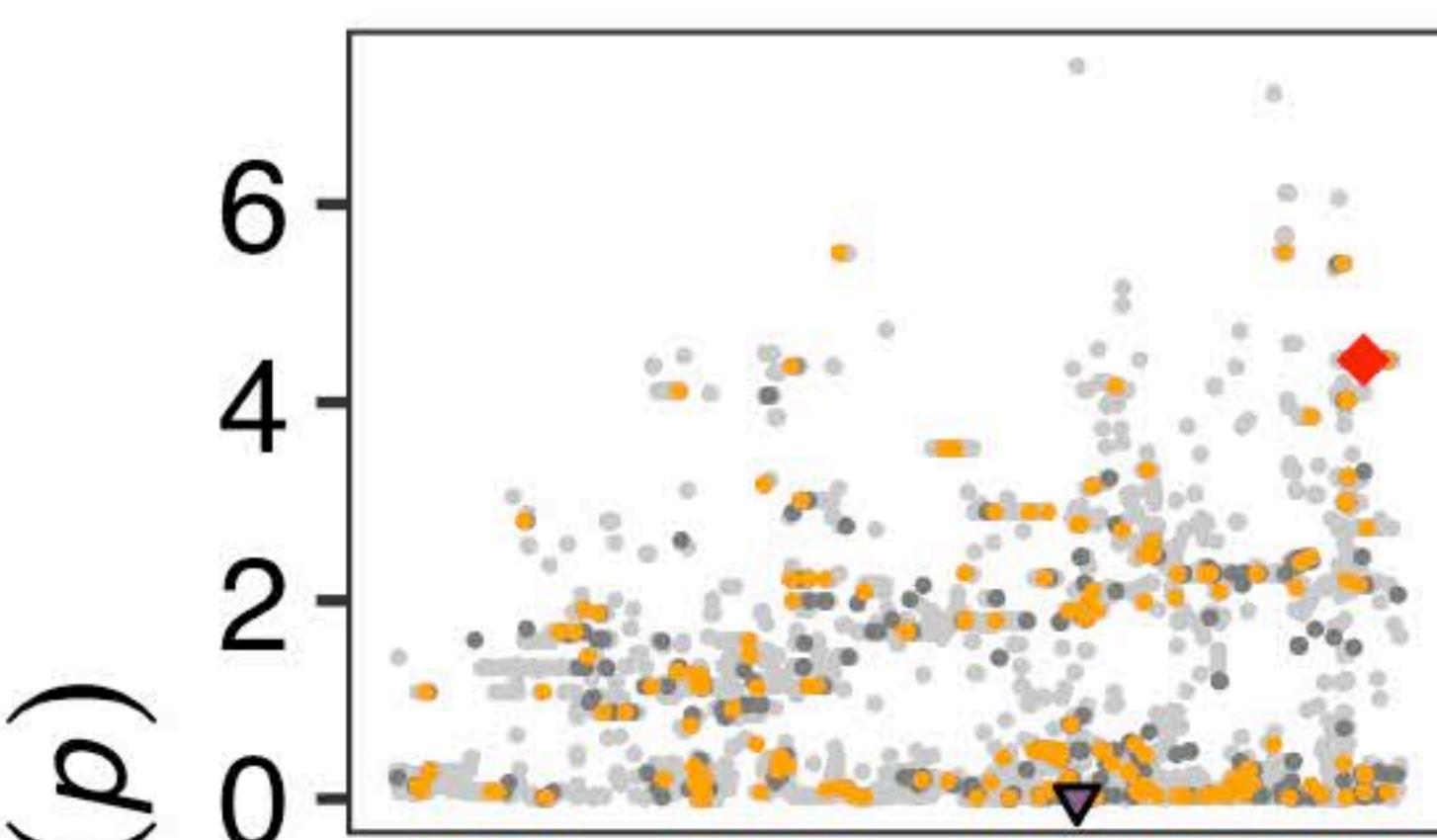
Y87G2A.16.1



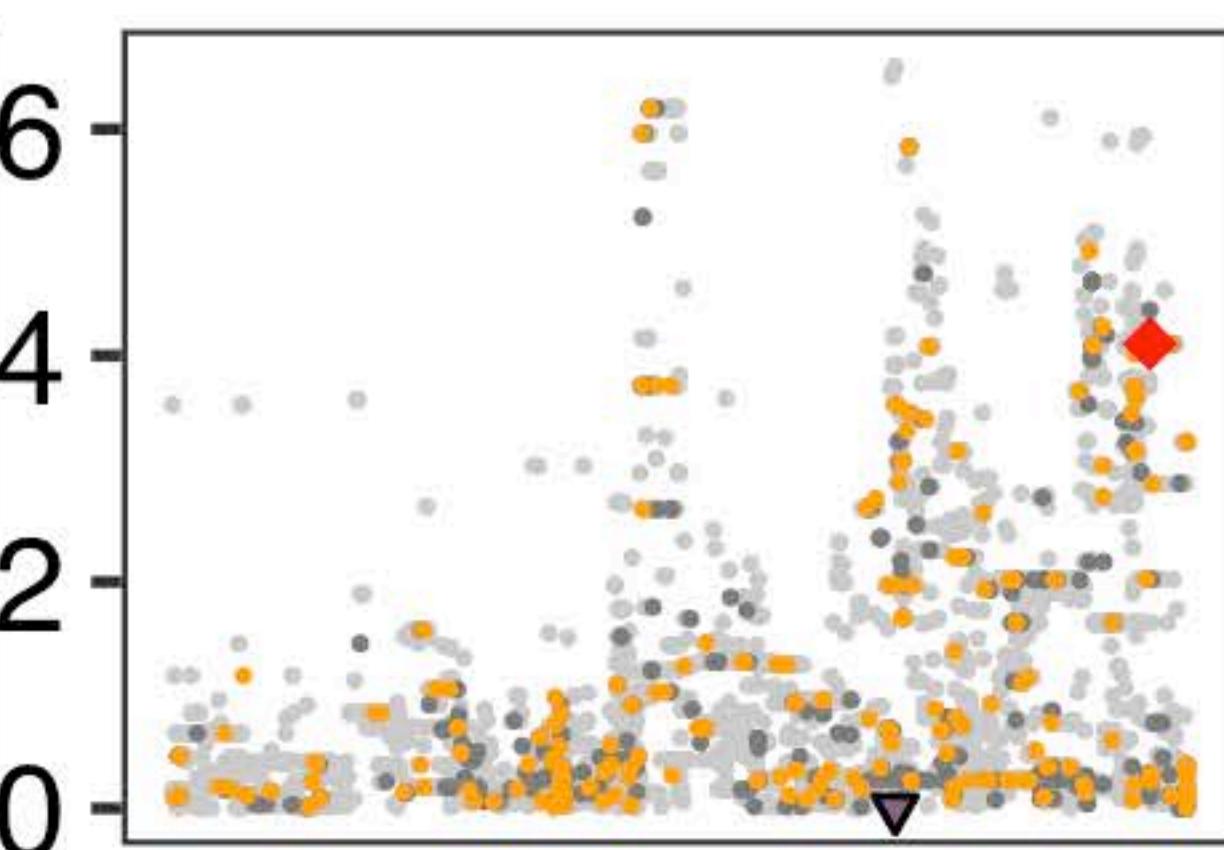
Candidate genes \blacklozenge *nhr-213*

Chromosome V: 26 cM

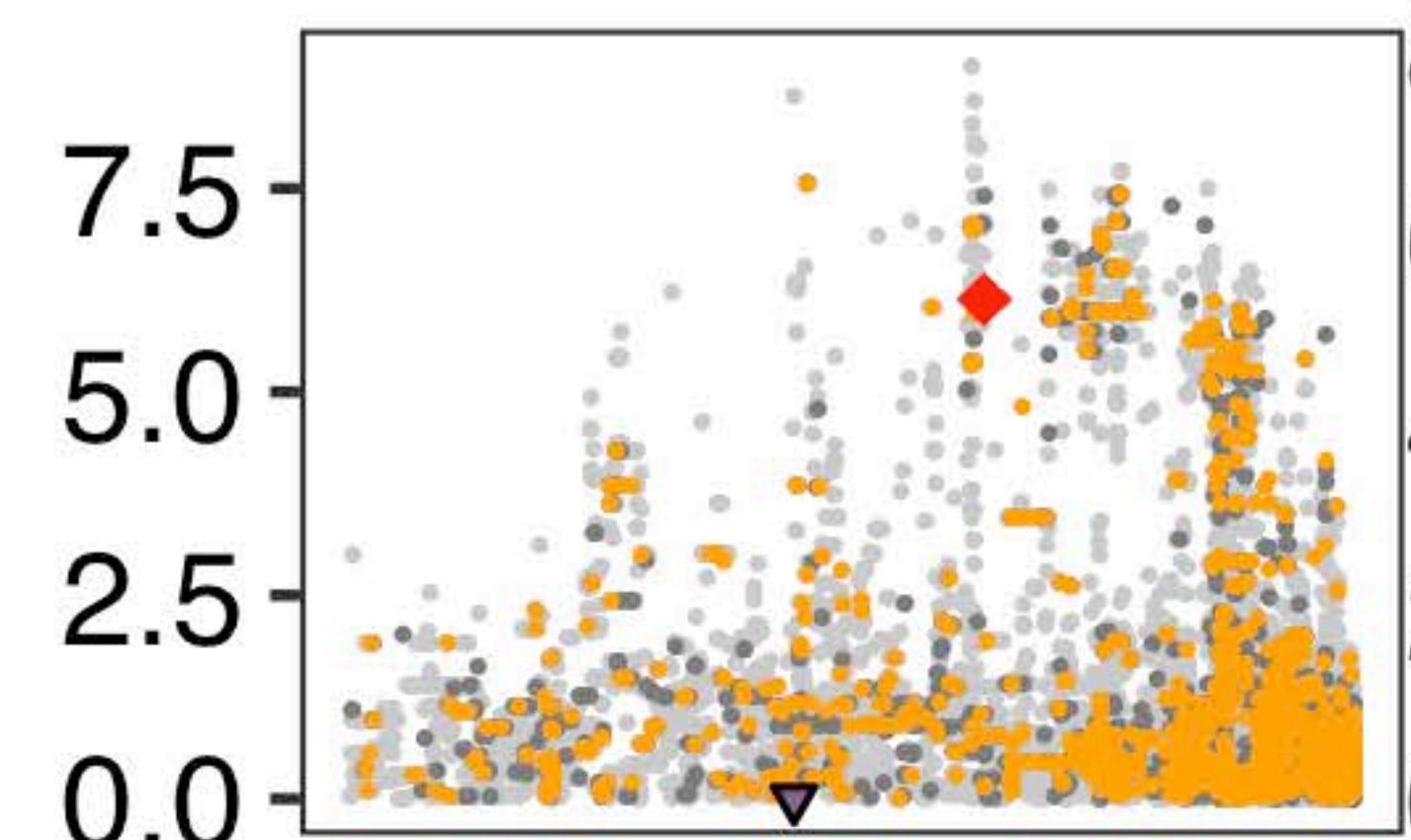
C09E9.1d.1



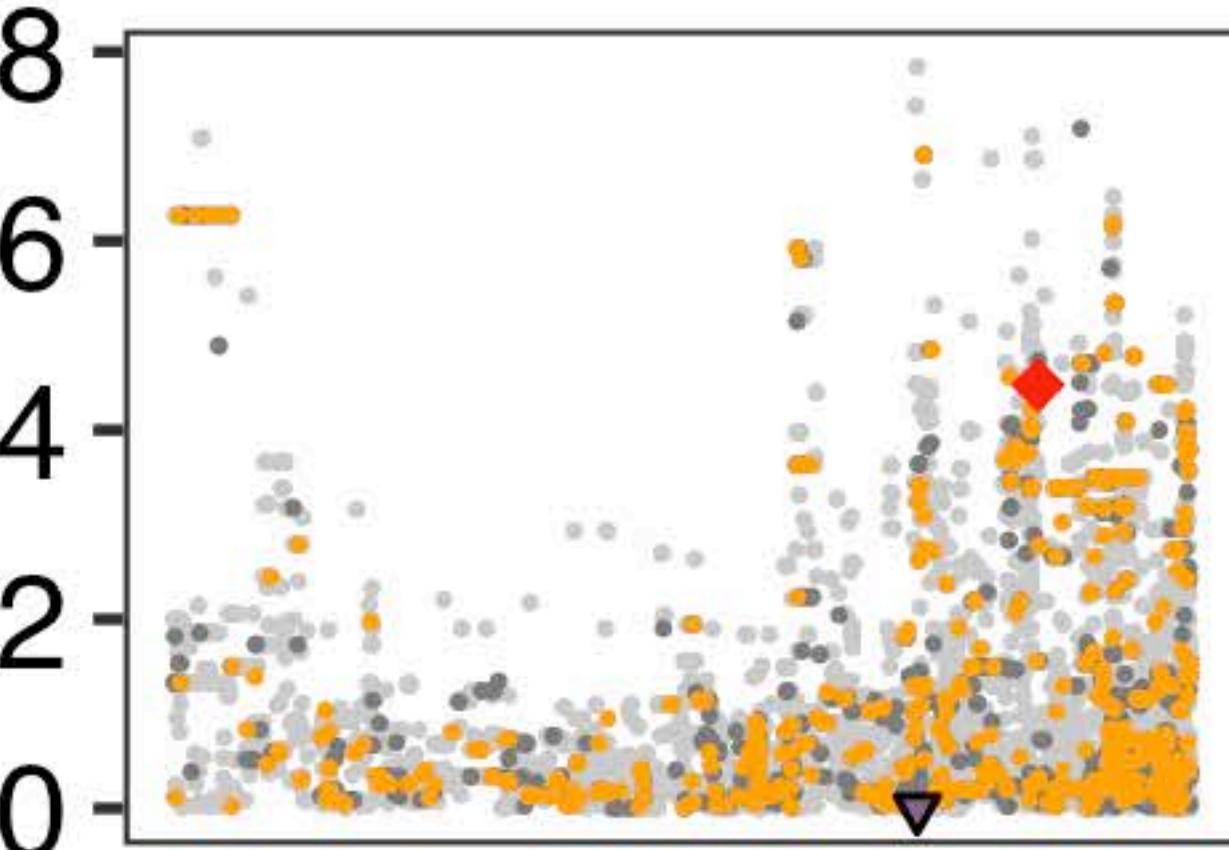
C46H11.8.1



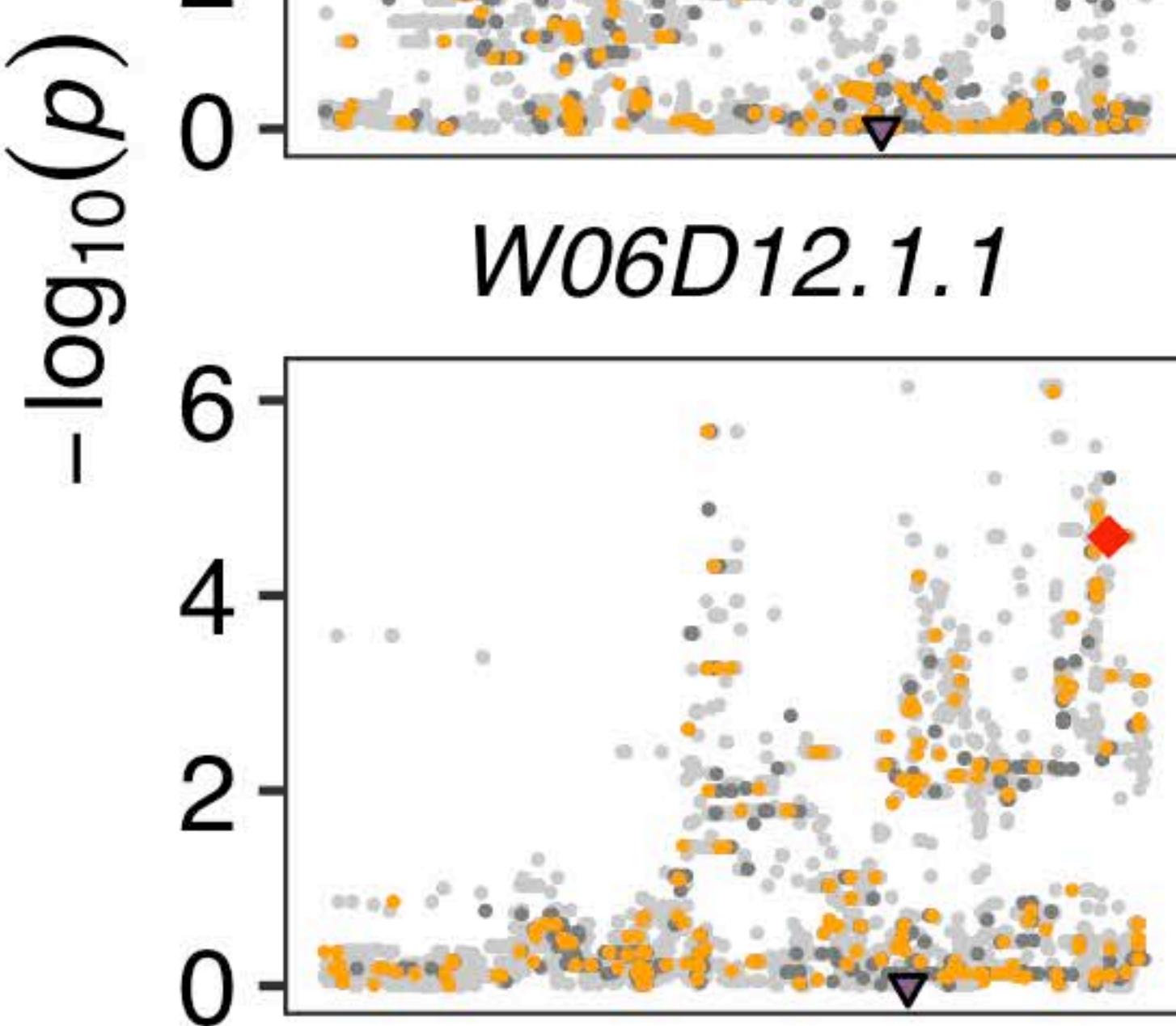
D2085.5c.1



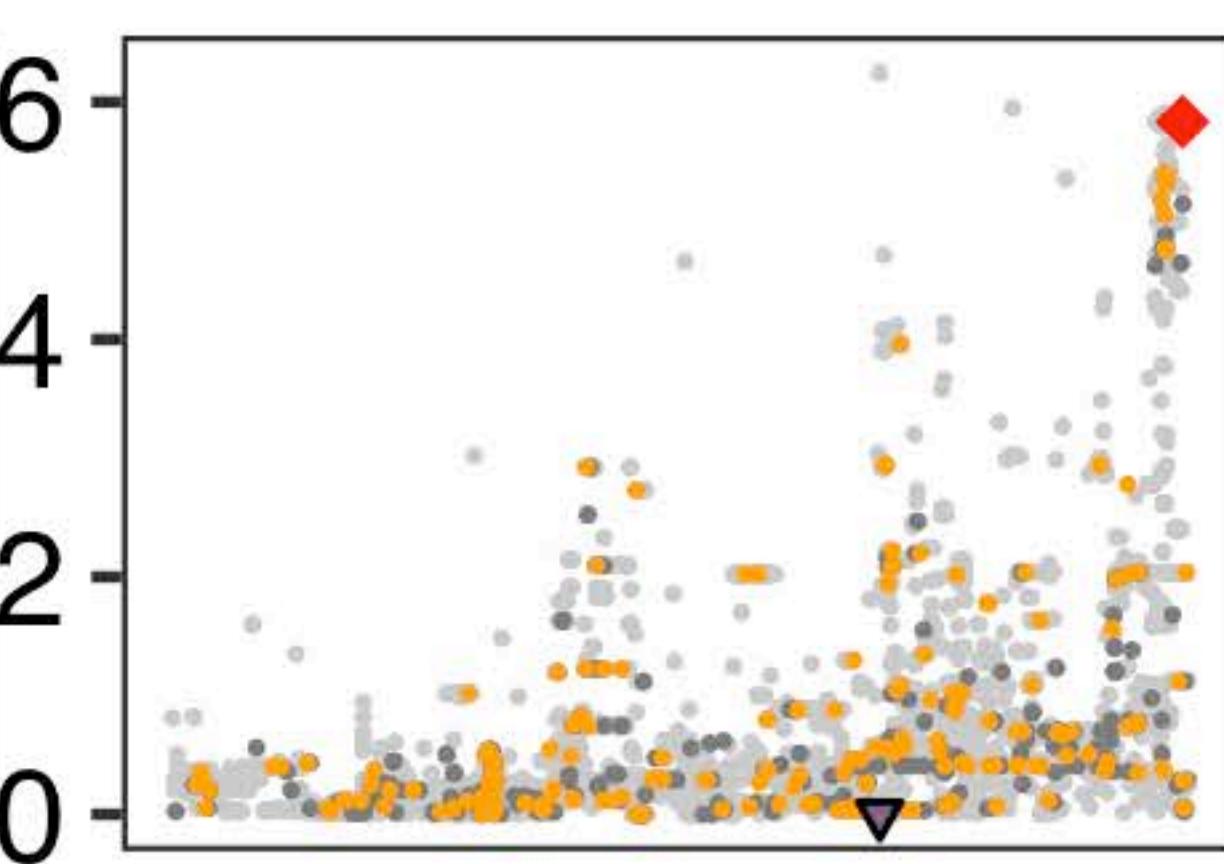
M195.2b.1



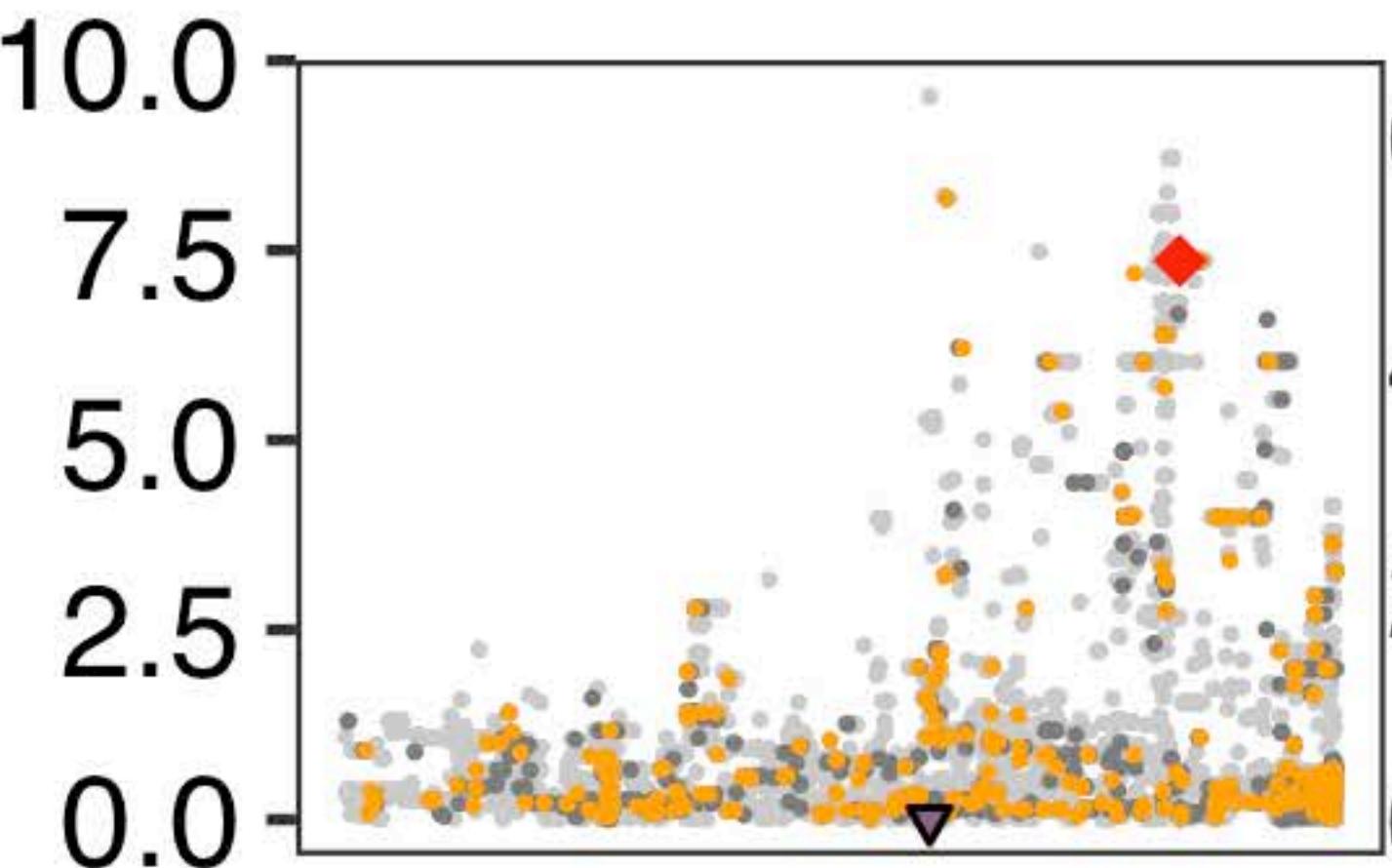
W06D12.1.1



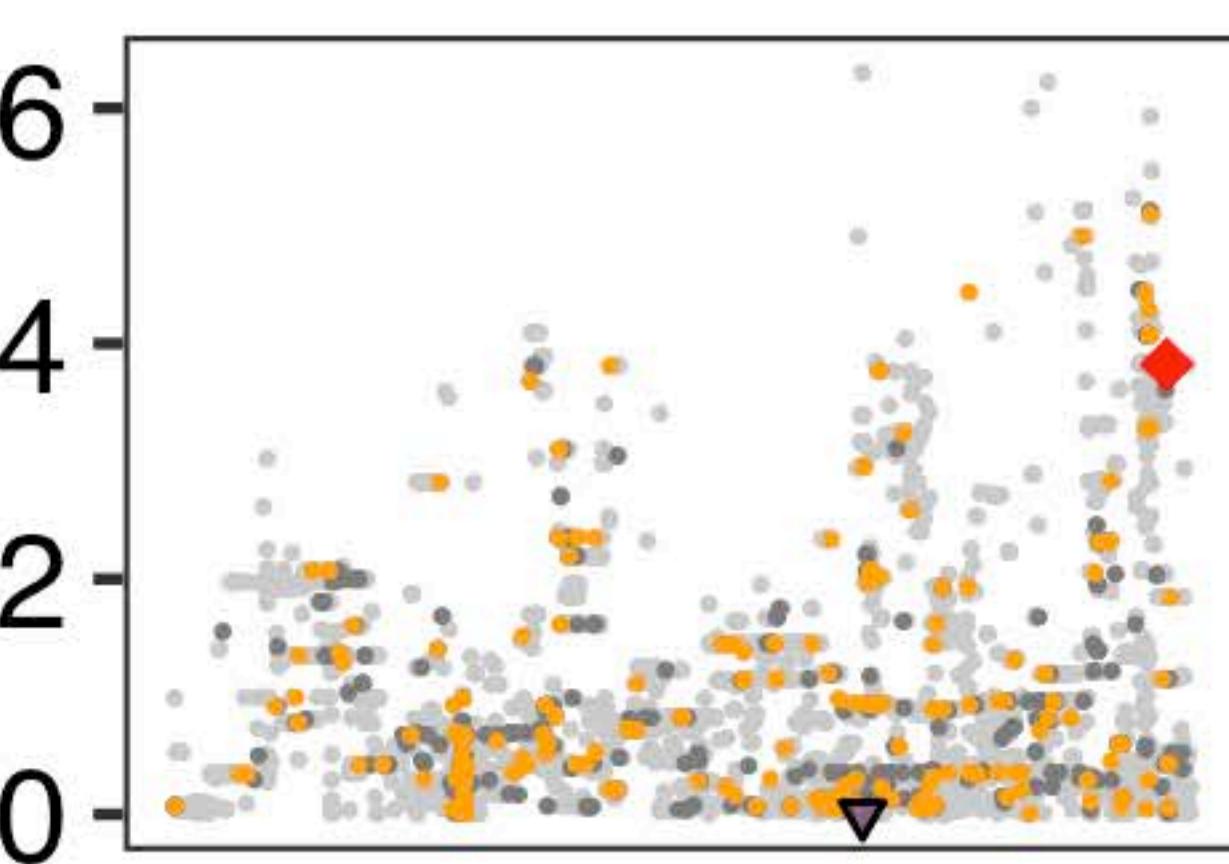
Y71G12B.12a.2



ZC513.4.1



ZK1067.4.1



Genomic position (Mb)

Candidate genes

♦ *set-5*

Chromosome V: 26 cM

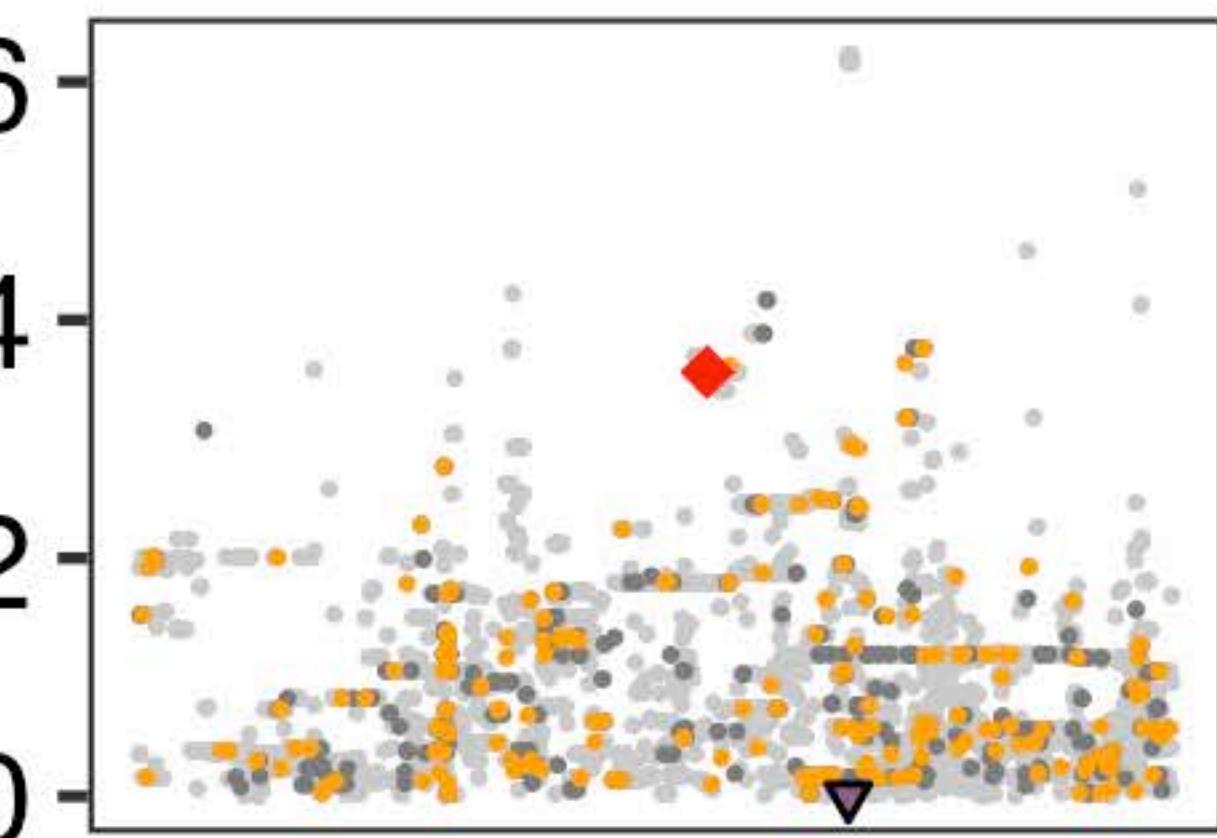
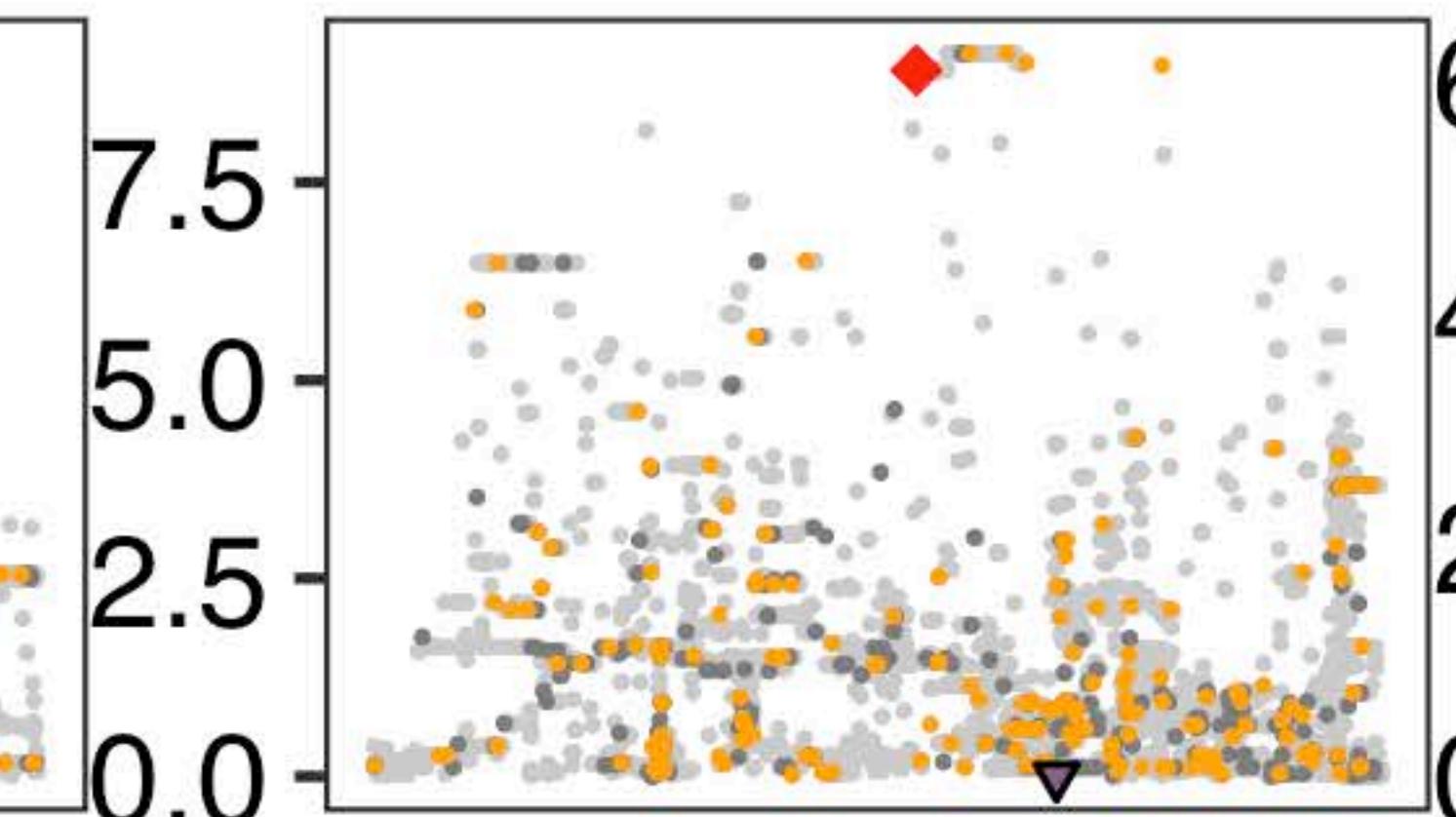
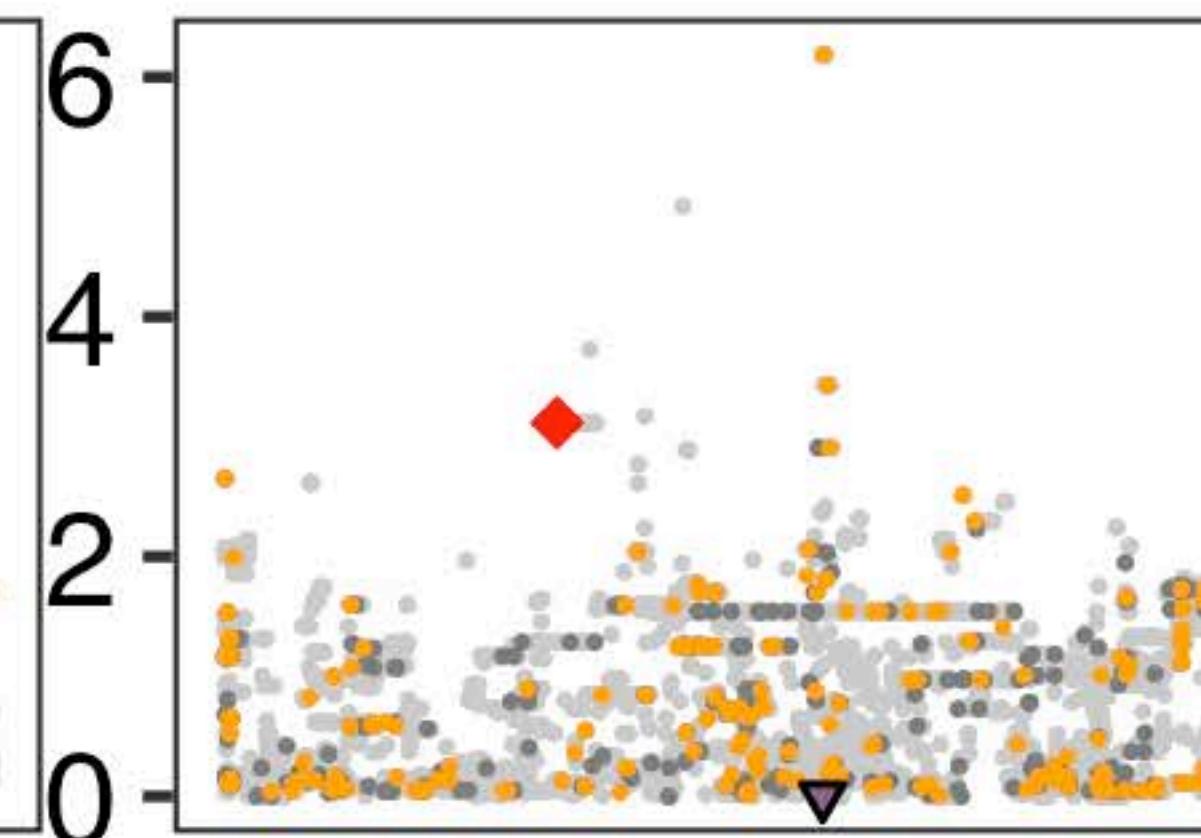
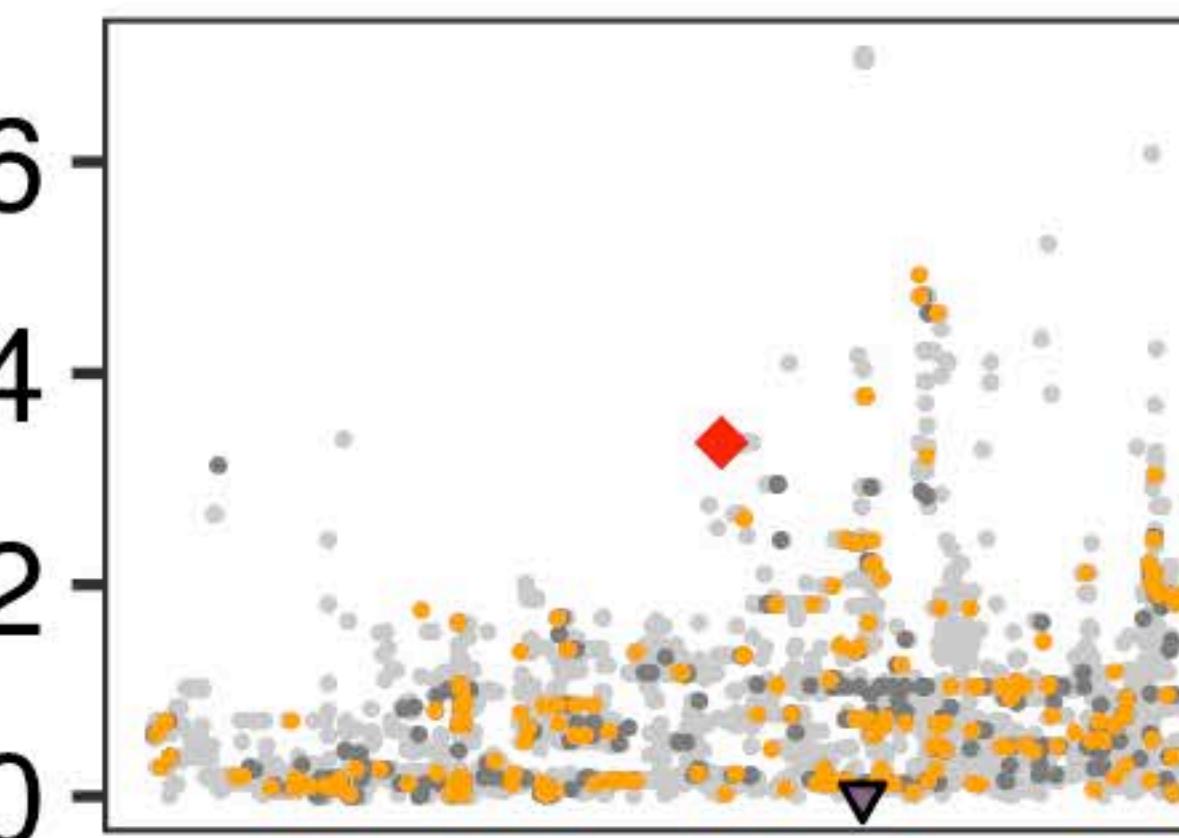
C09G9.1c.1

K09E9.3a.2

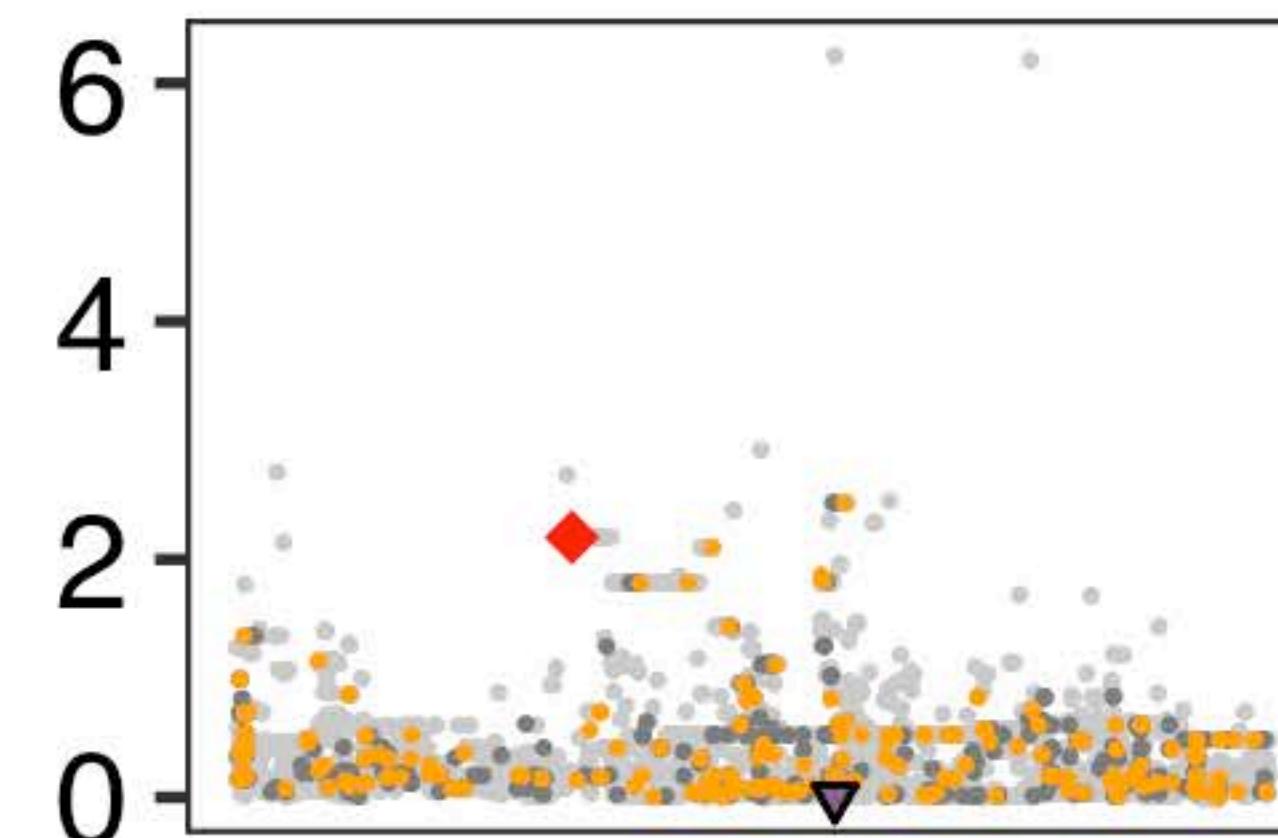
K10C8.4.2

Y57A10A.28.1

$-\log_{10}(p)$



ZC404.3a.2



Genomic position (Mb)

Candidate genes *zip-5*

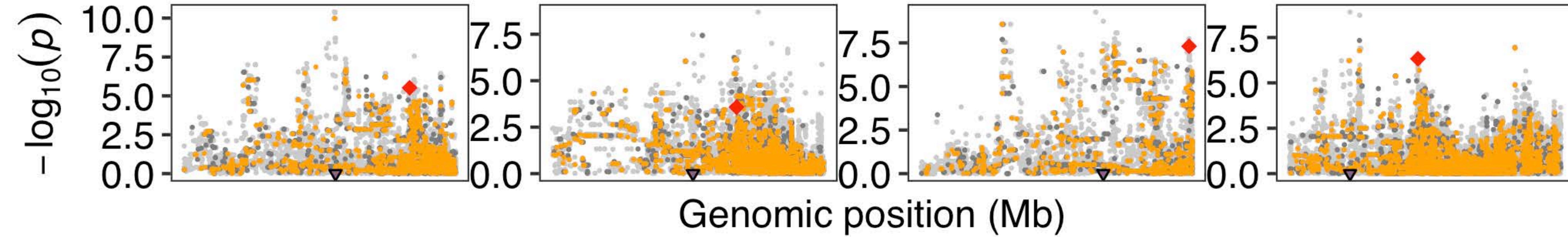
Chromosome V: 26.5 cM

F41E6.11.1

W08G11.3a.2

Y76A2B.2.1

ZK180.5a.1



Candidate genes

◆ *nhr-84*

Chromosome V: 27 cM

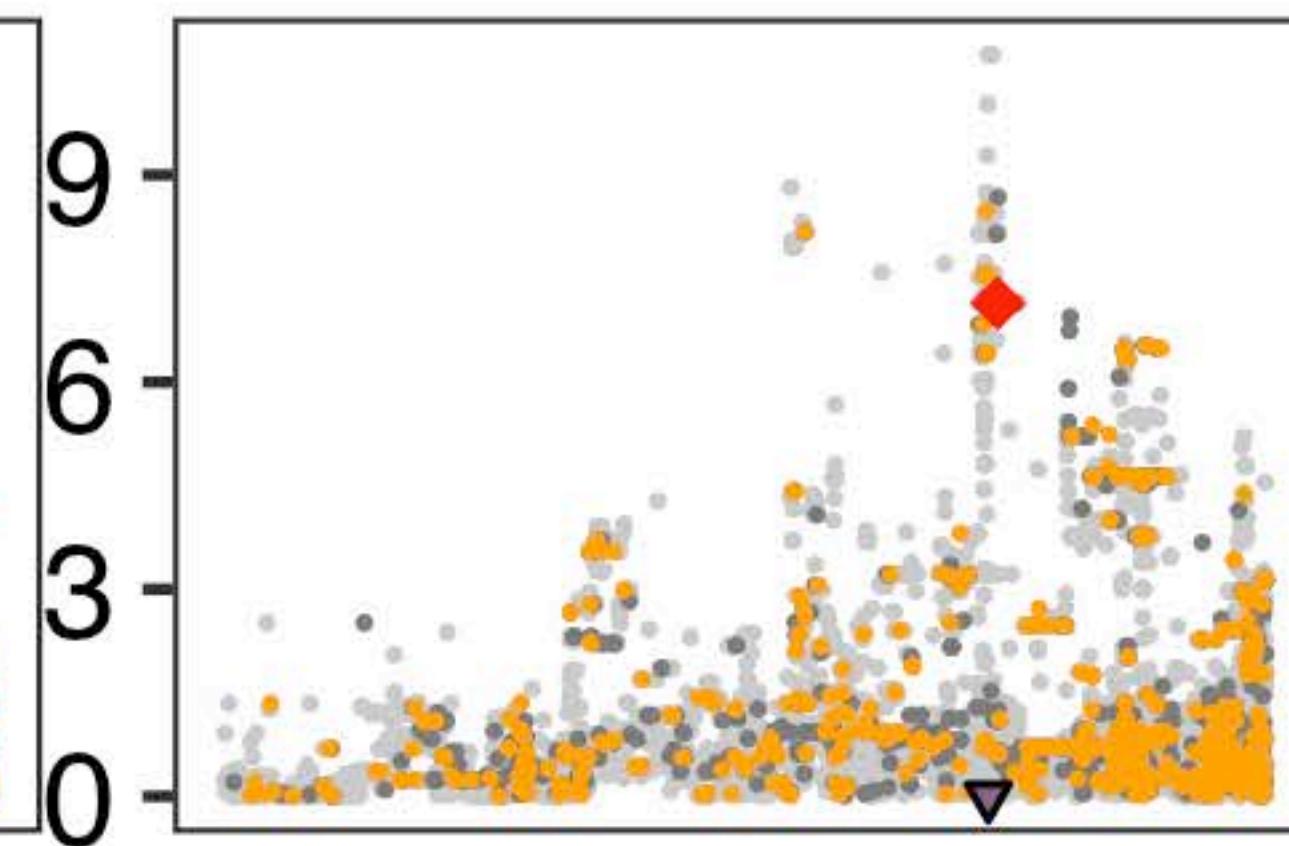
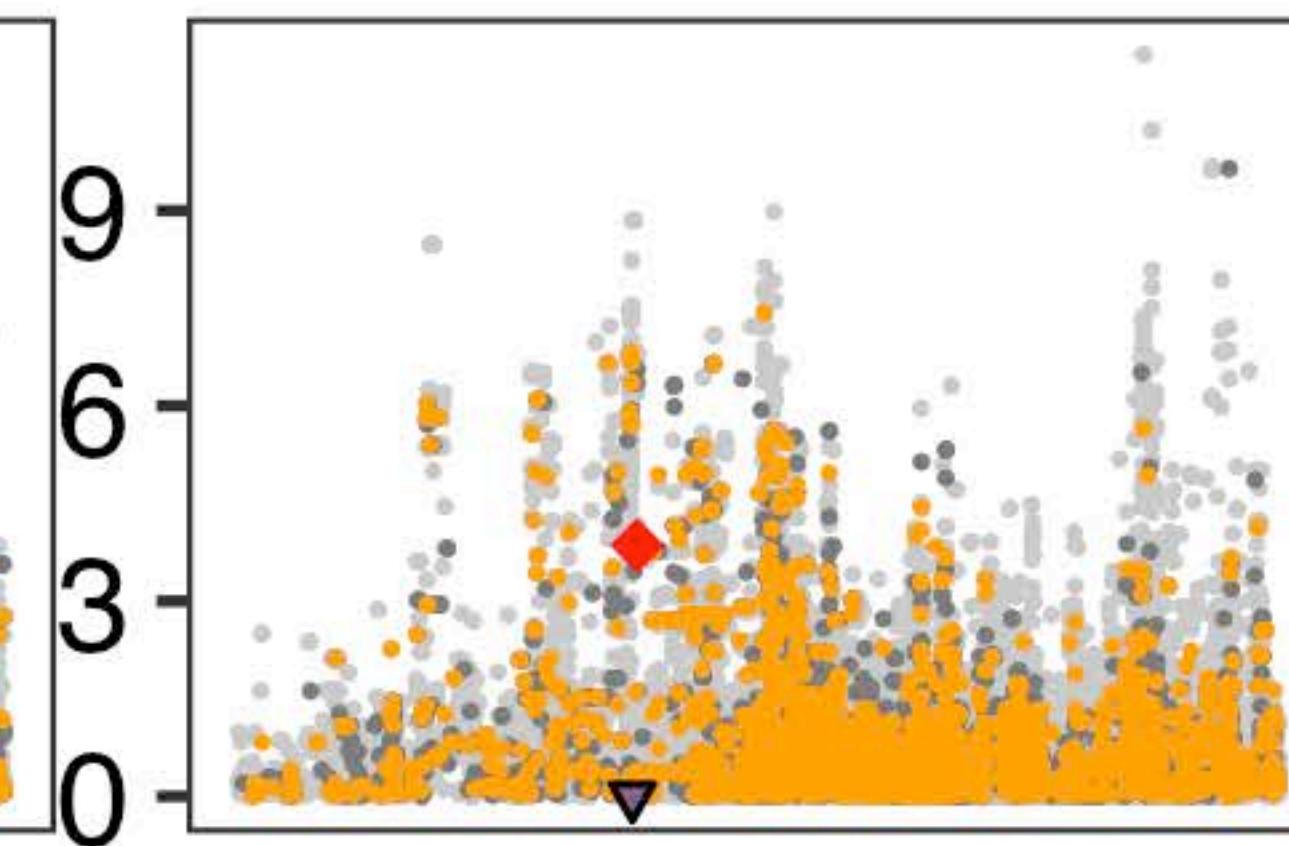
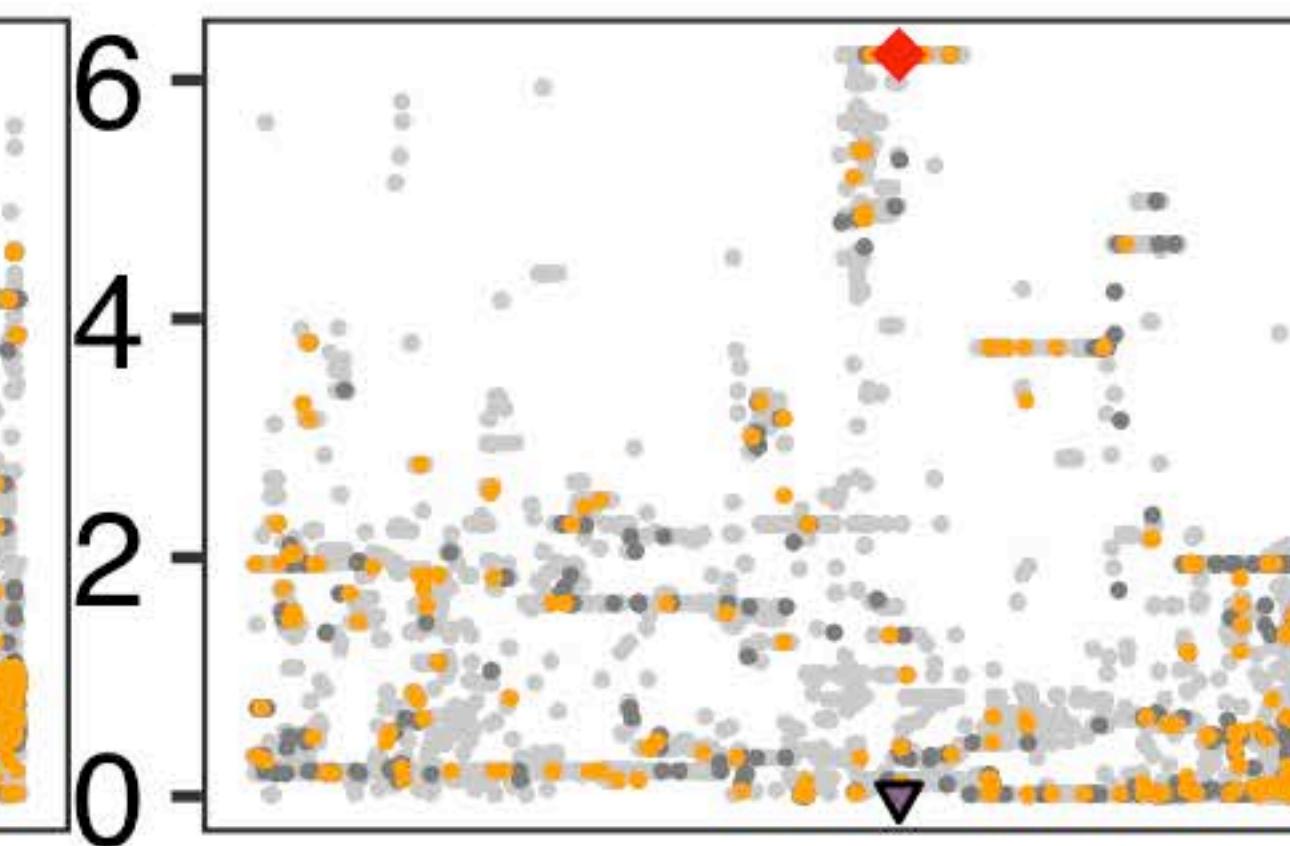
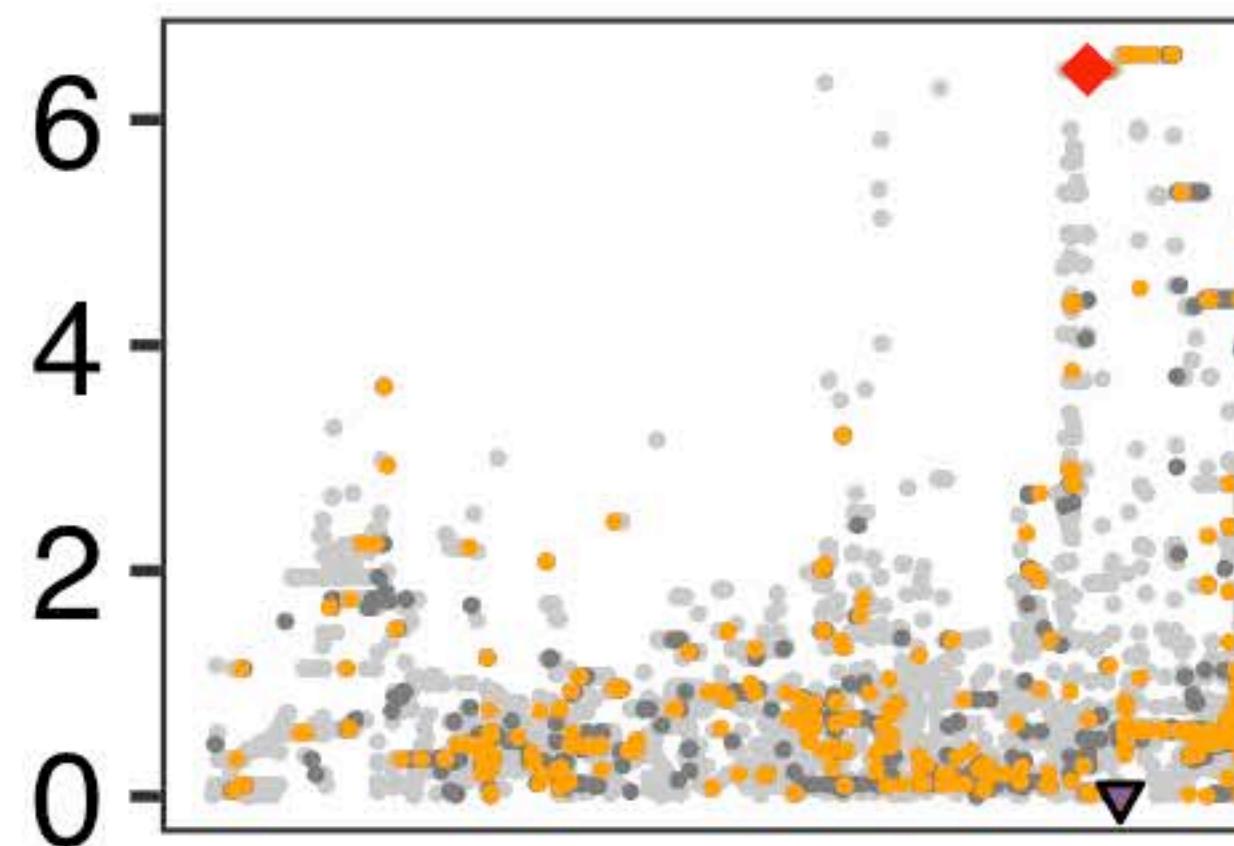
B0564.10a.1

C06G3.8a.1

C14C11.8b.1

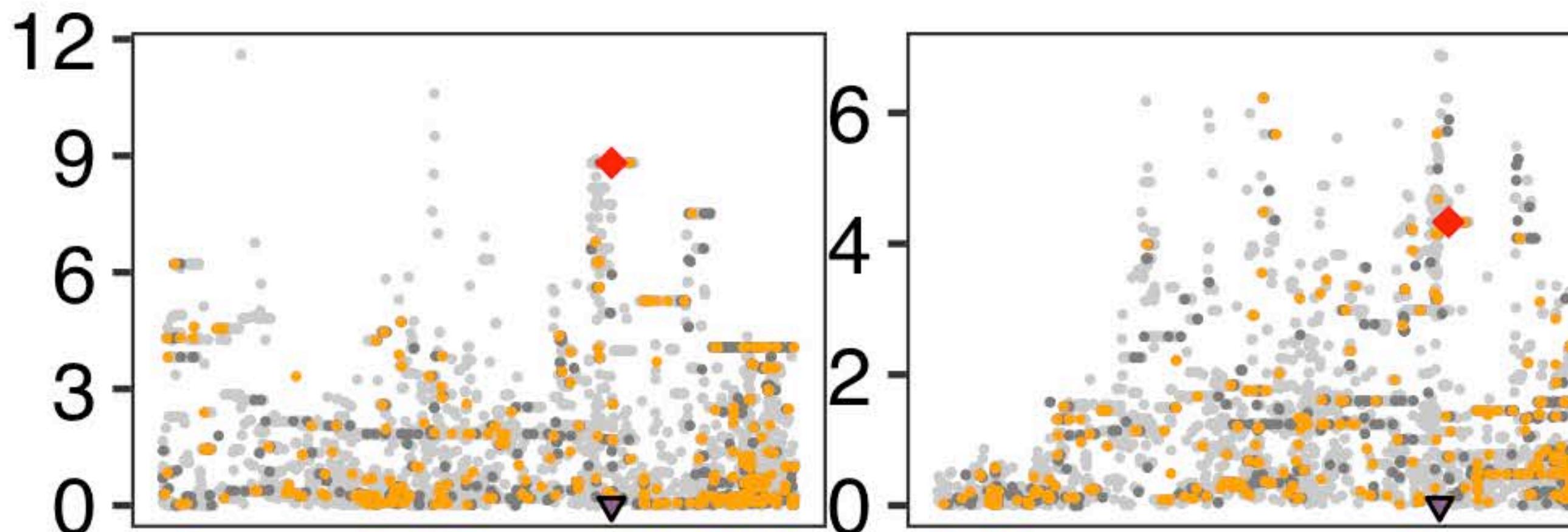
Y45G5AM.1a.2

$-\log_{10}(p)$



ZC455.6a.1

ZC477.3c.1



Genomic position (Mb)

Candidate genes *set-5*

Chromosome V: 30.5 cM

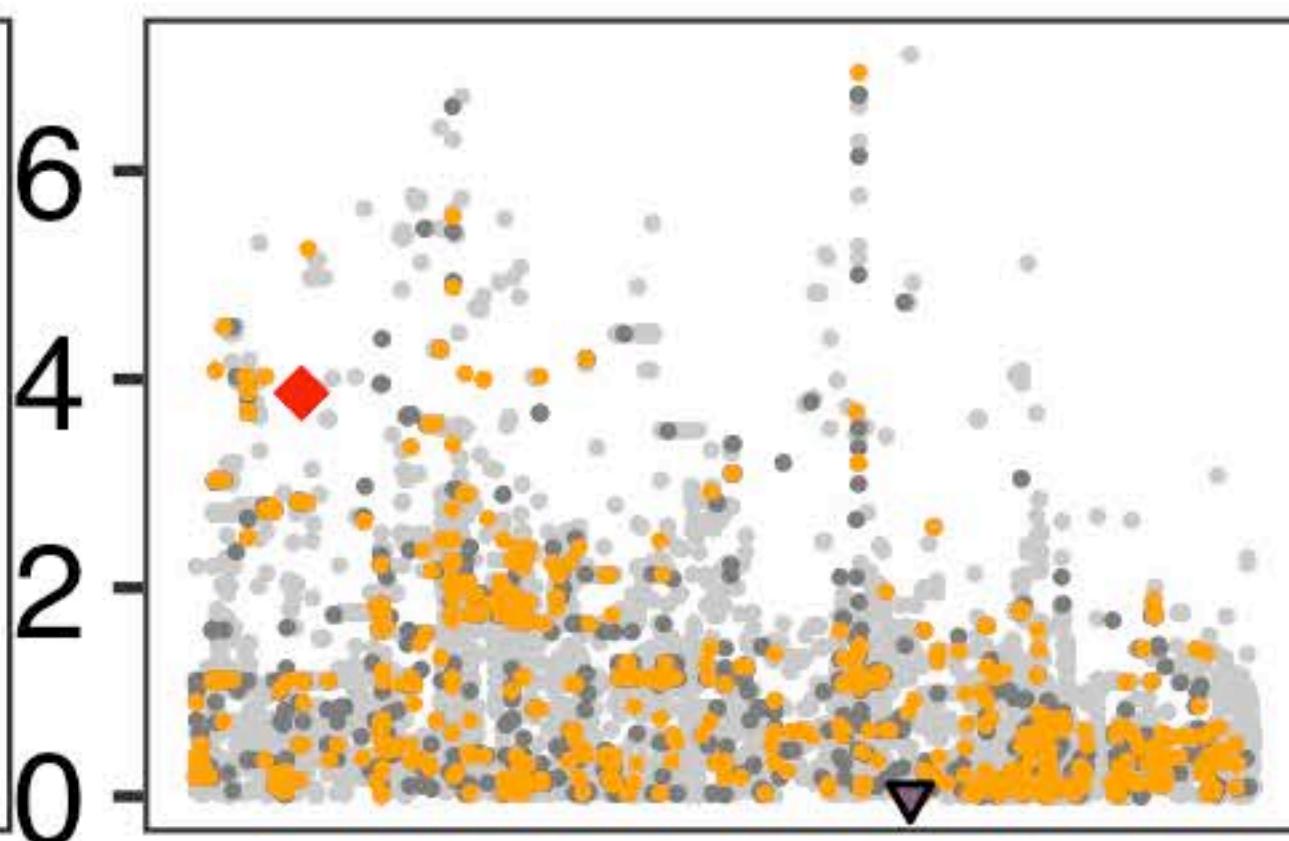
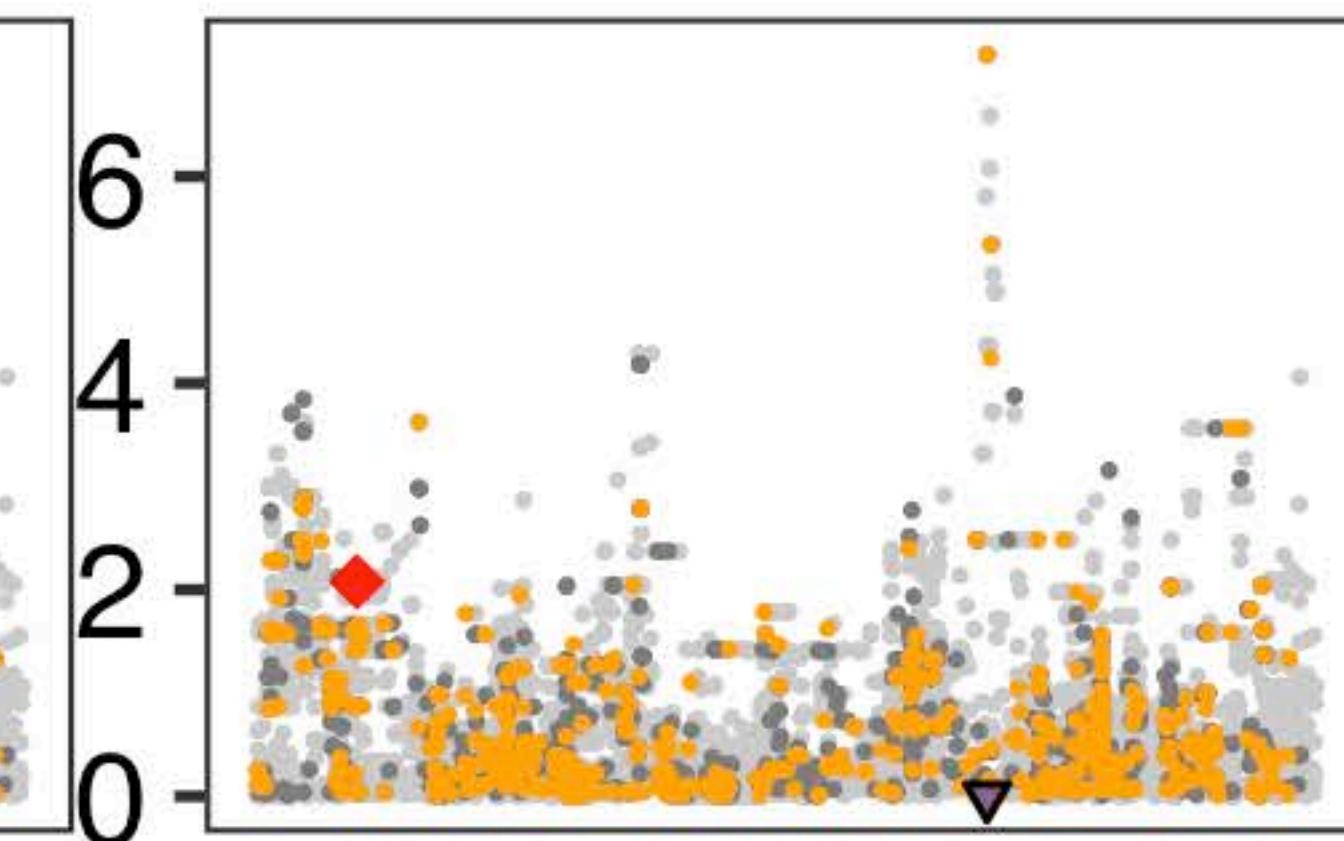
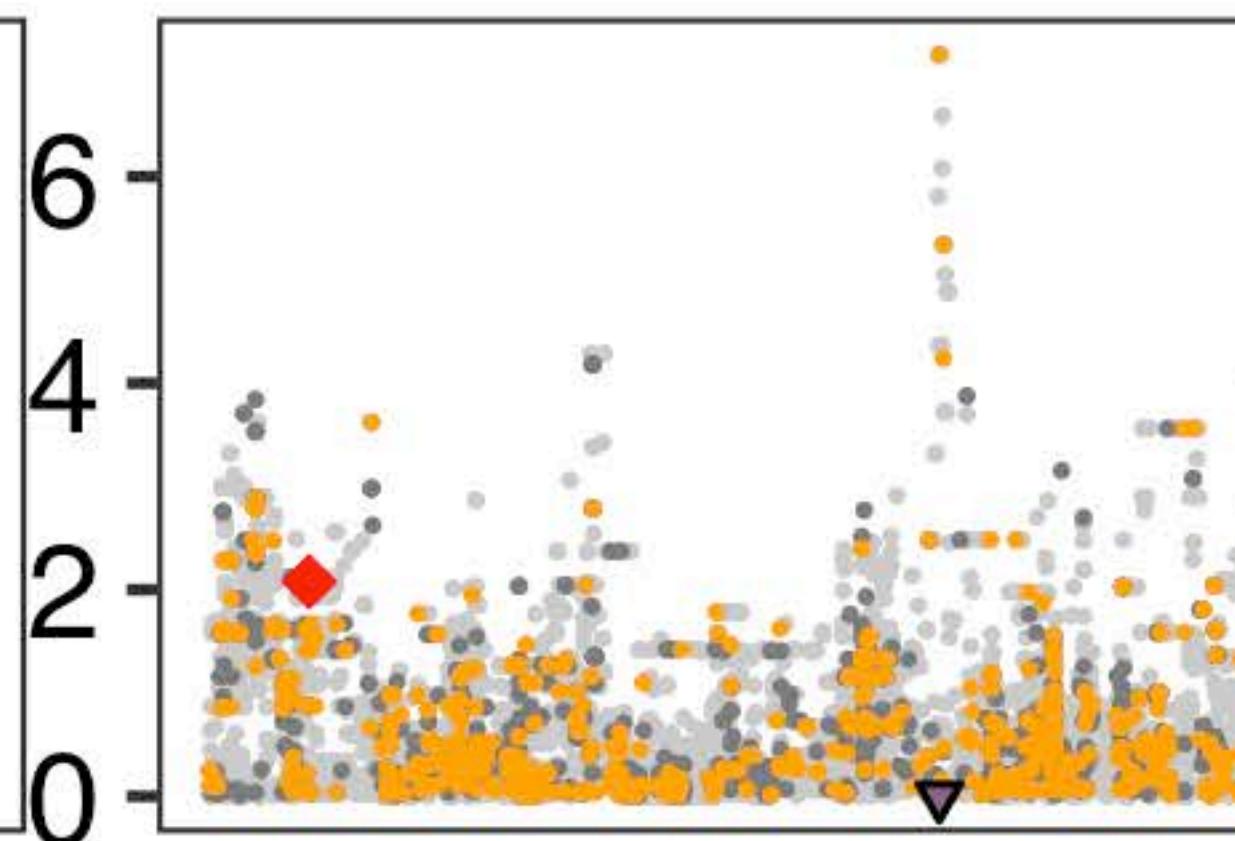
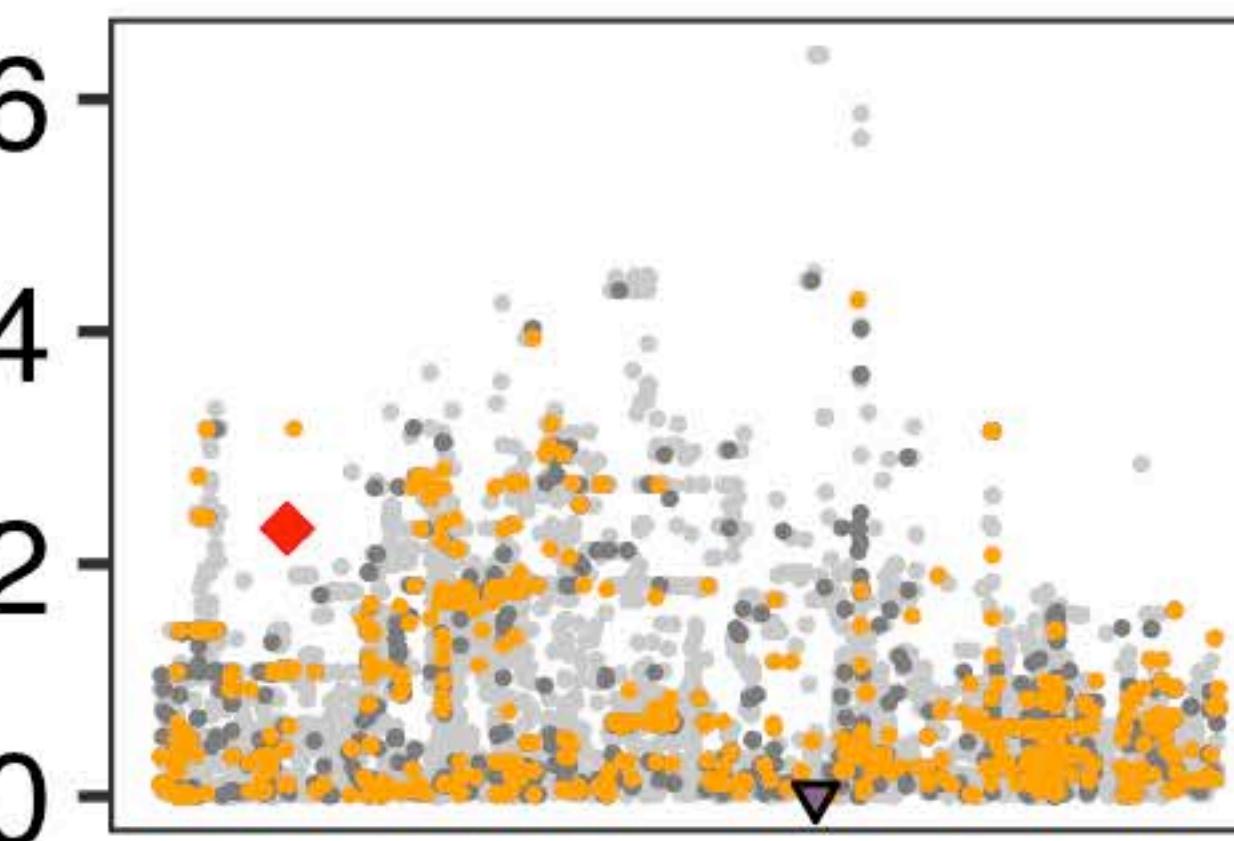
C45G9.6a.2

F07B7.2.1

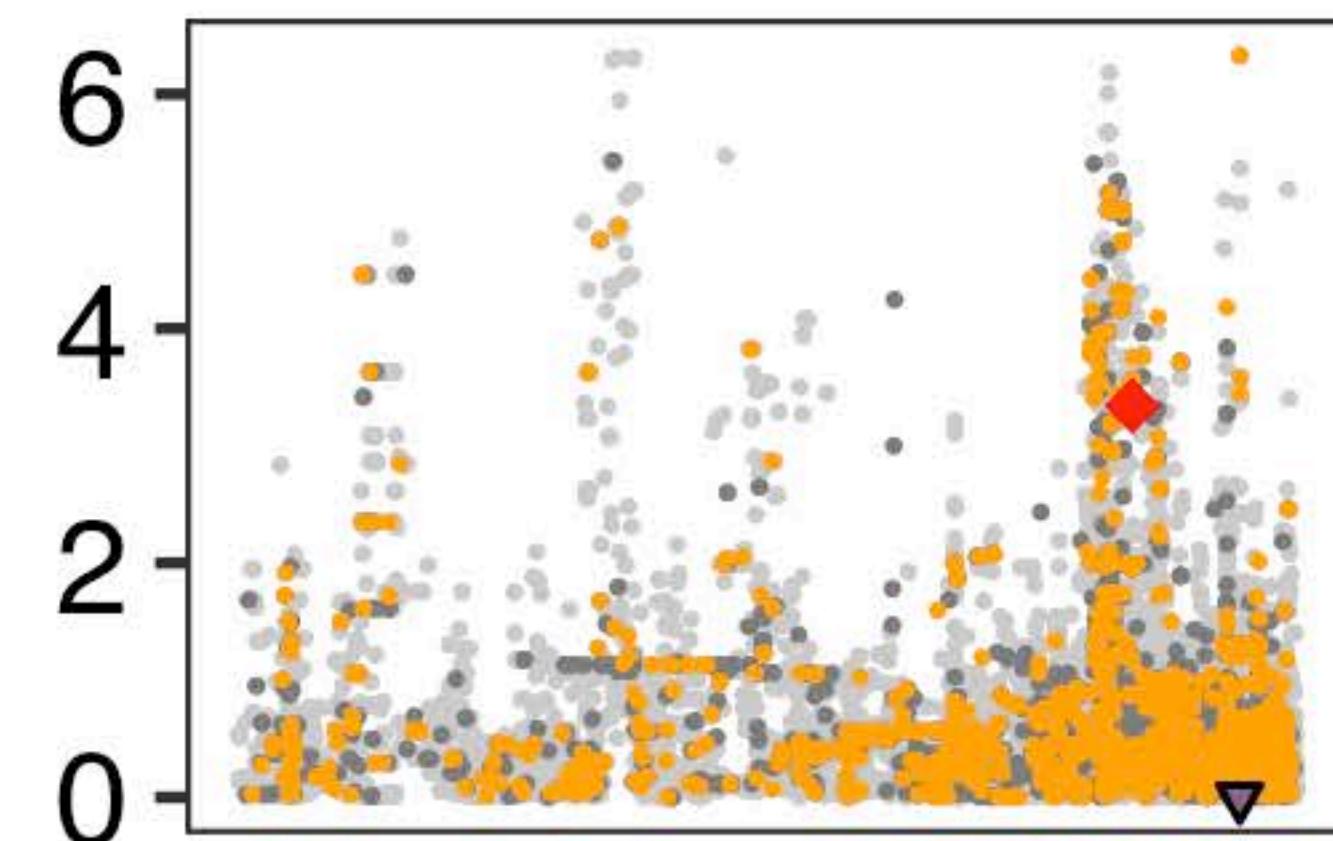
W09B7.2.1

Y39A1B.2a.1

$-\log_{10}(p)$



ZK783.1d.1



Genomic position (Mb)

Candidate genes

◆ *nhr-176*

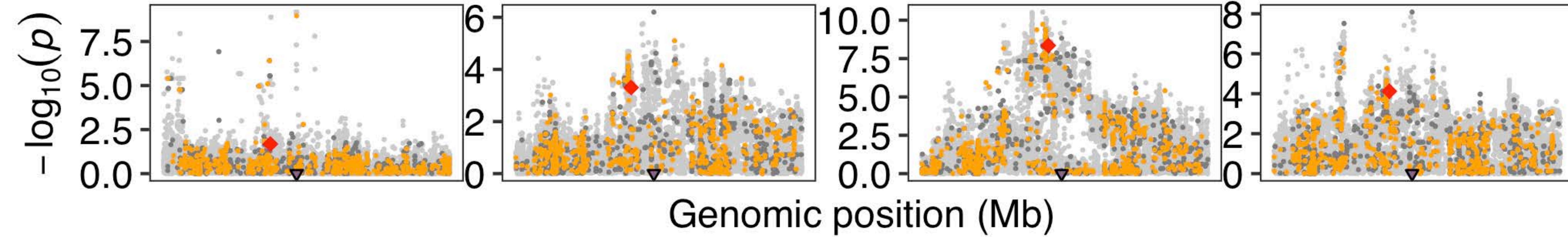
Chromosome V: 39 cM

C17C3.1a.1

F42G4.3d.1

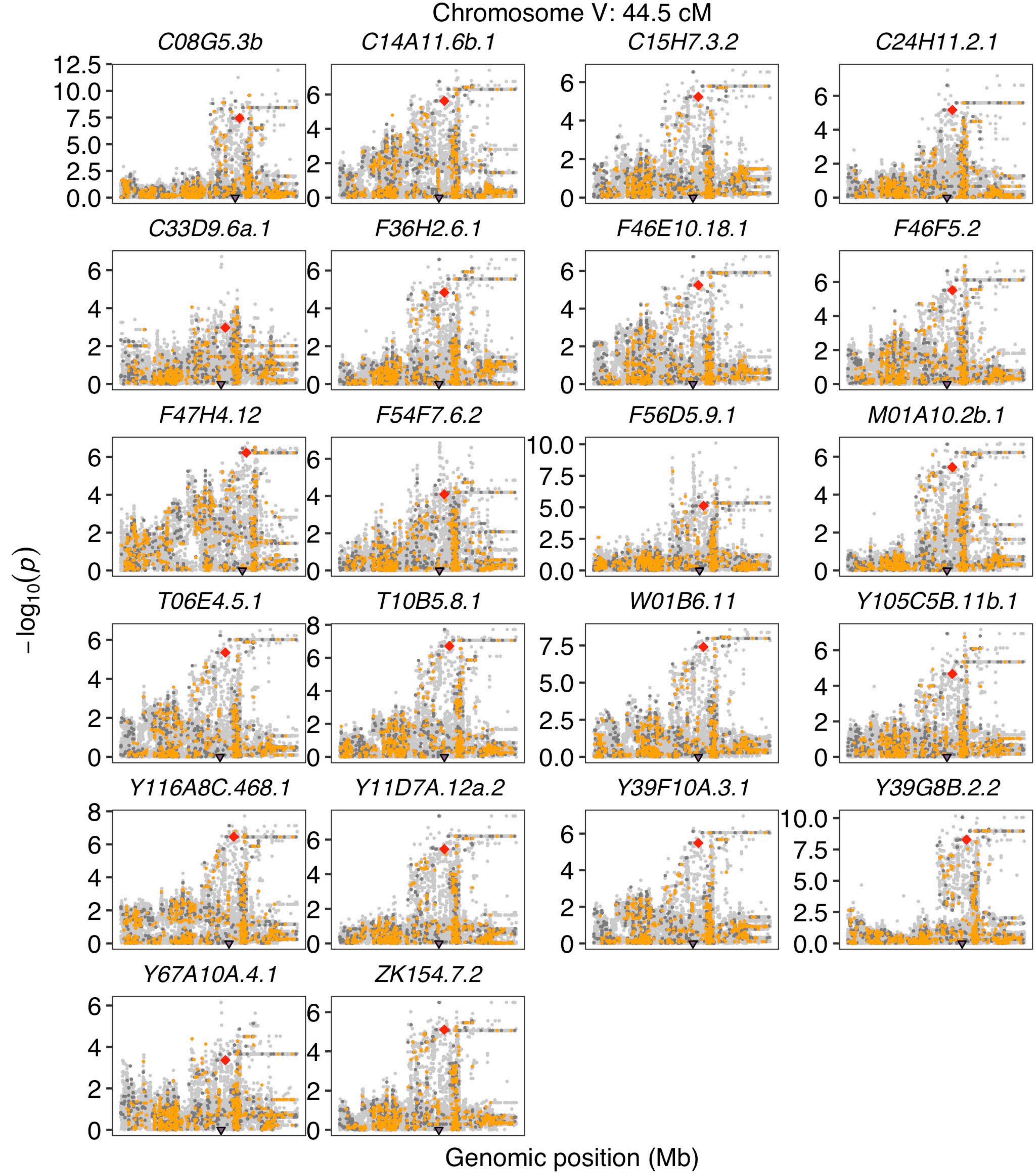
T22G5.6.2

Y56A3A.30.2



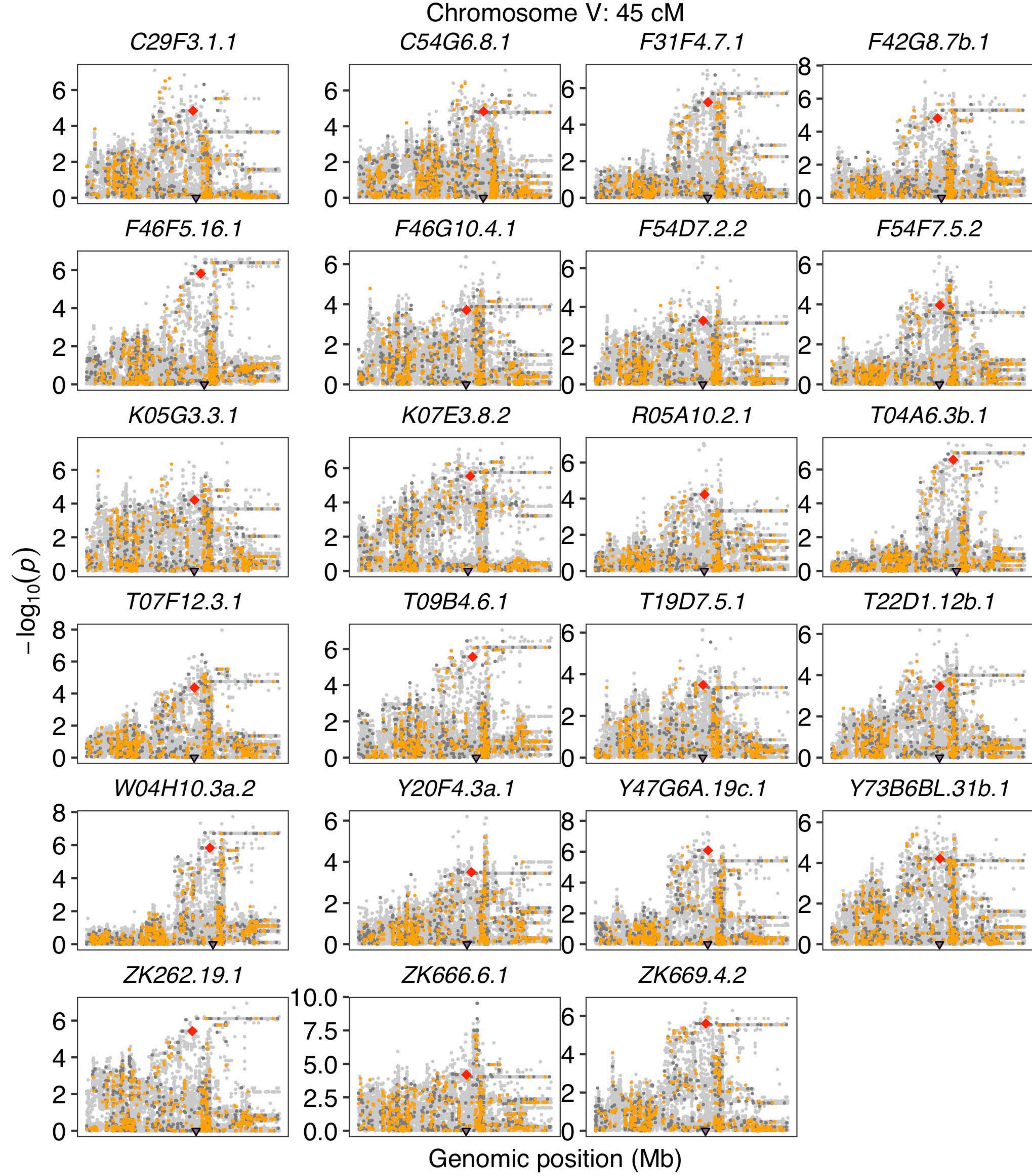
Candidate genes \blacklozenge *nhr-231*

Chromosome V: 44.5 cM



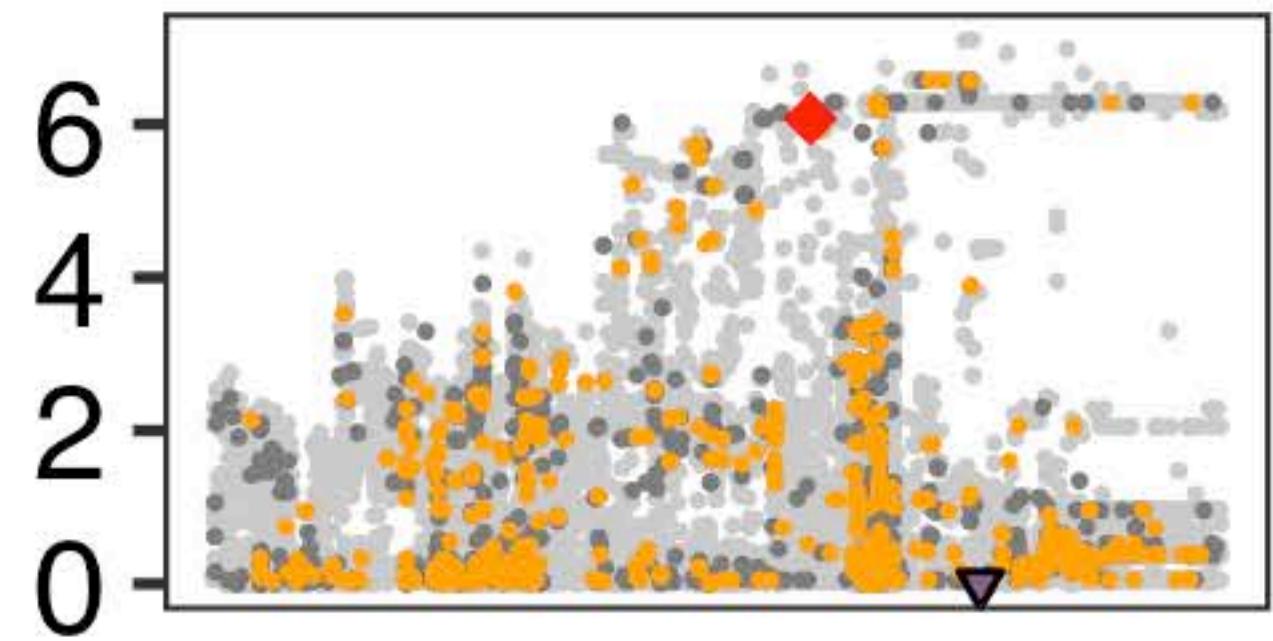
Candidate genes ◆ *ttx-1*

Chromosome V: 45 cM

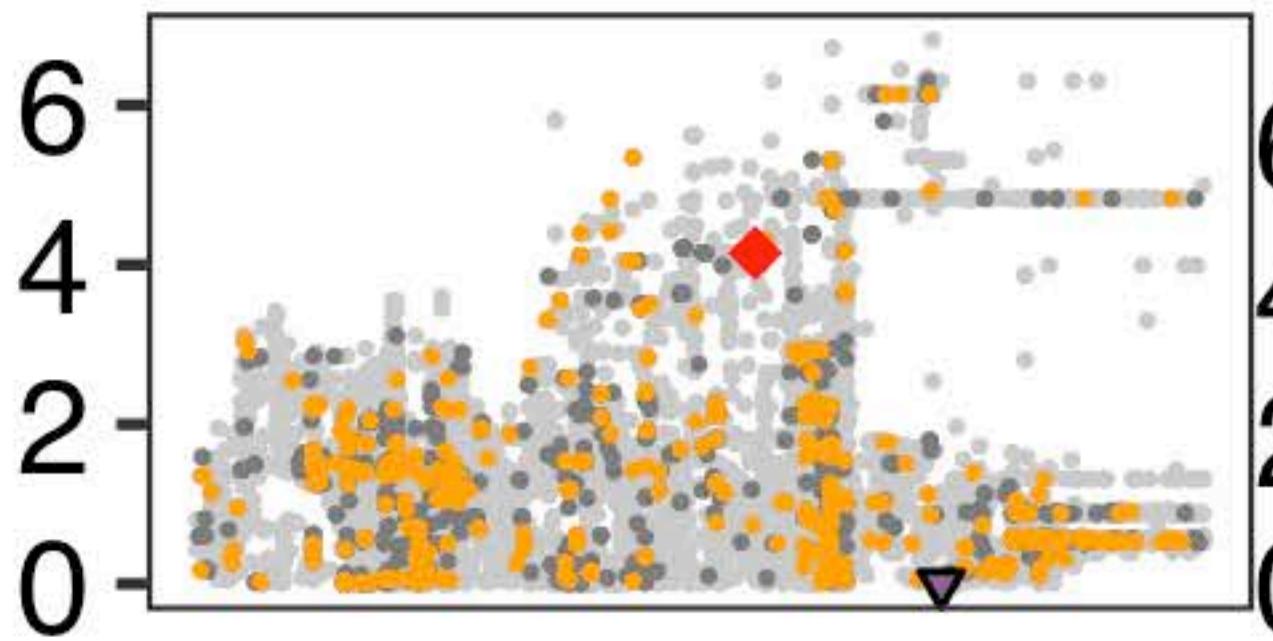
Candidate genes • *ttx-1*

Chromosome V: 45.5 cM

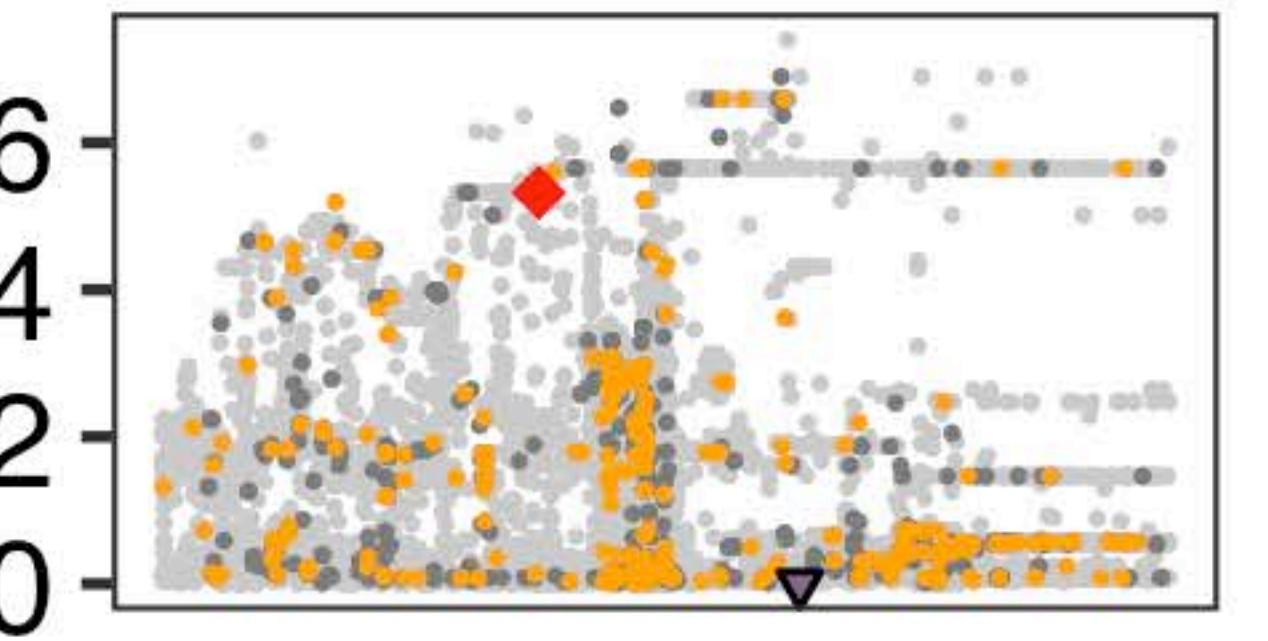
AC3.12.1



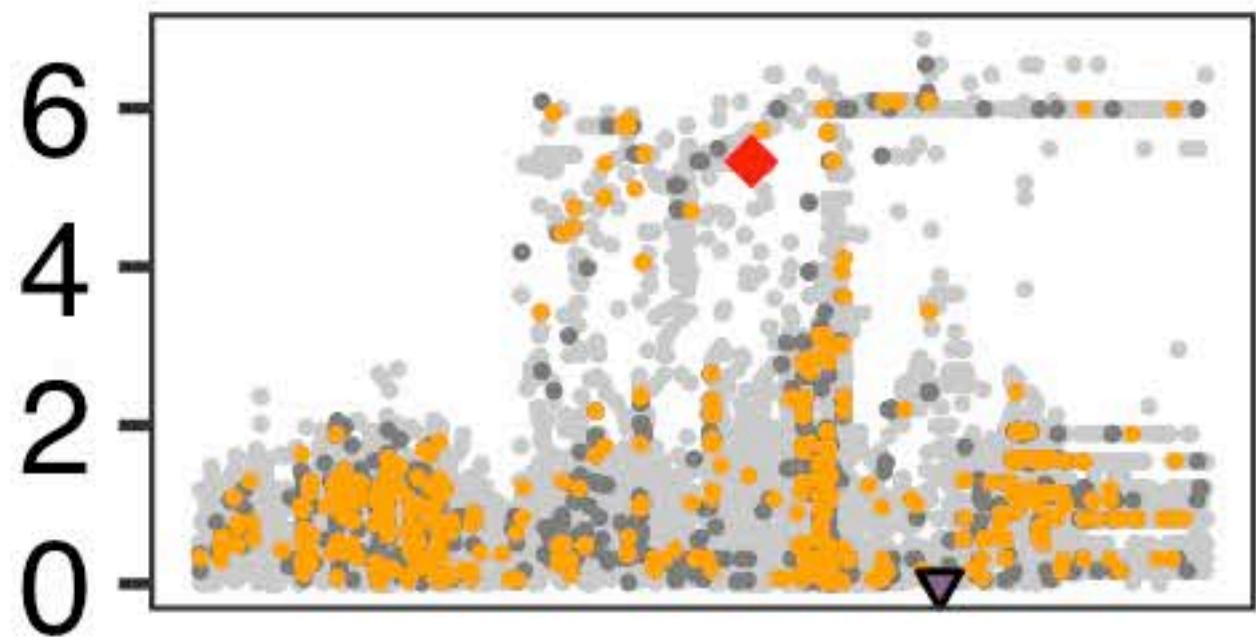
C06C6.6



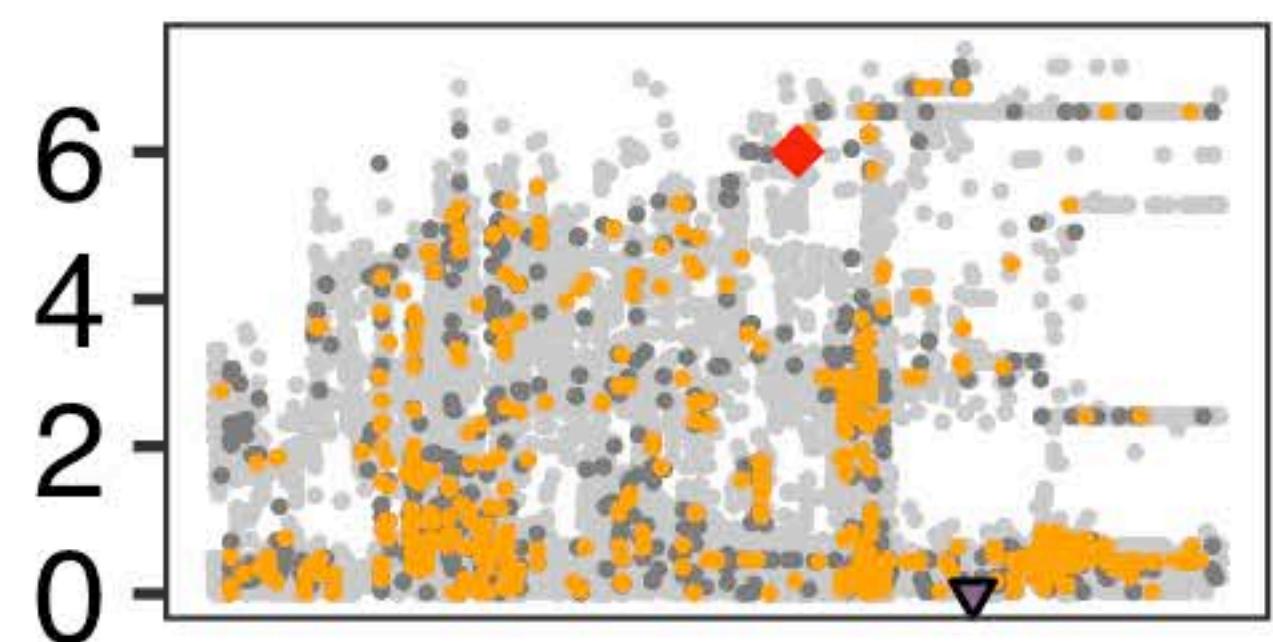
C07A9.7a.1



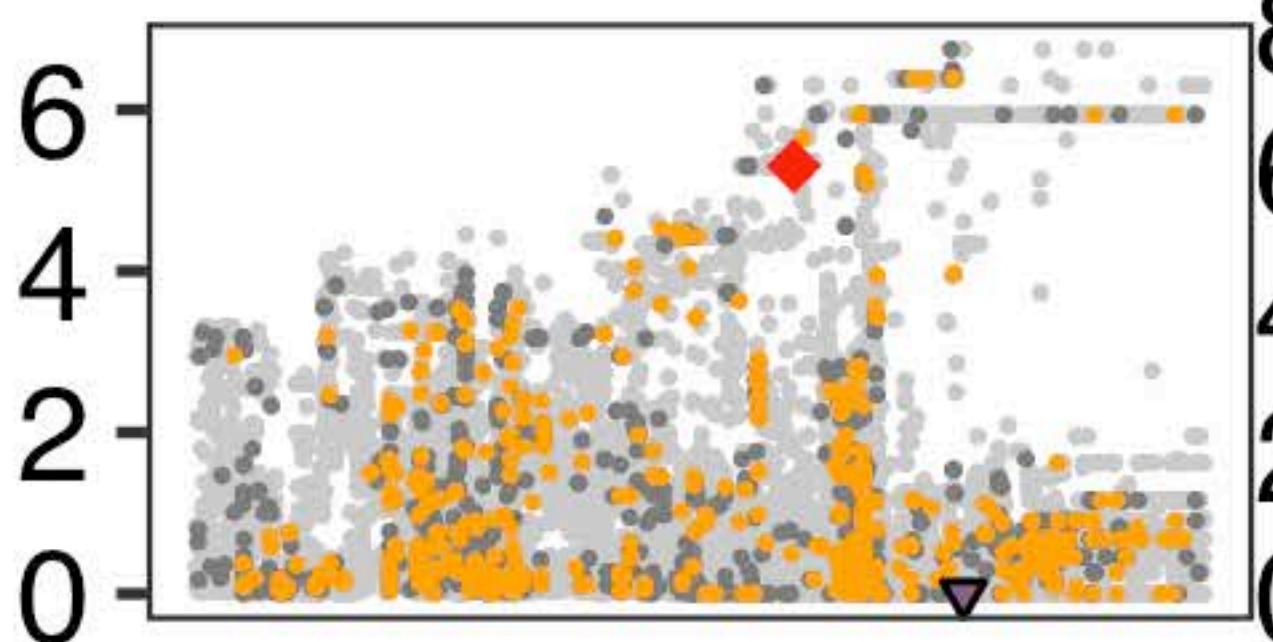
C16C8.22.1



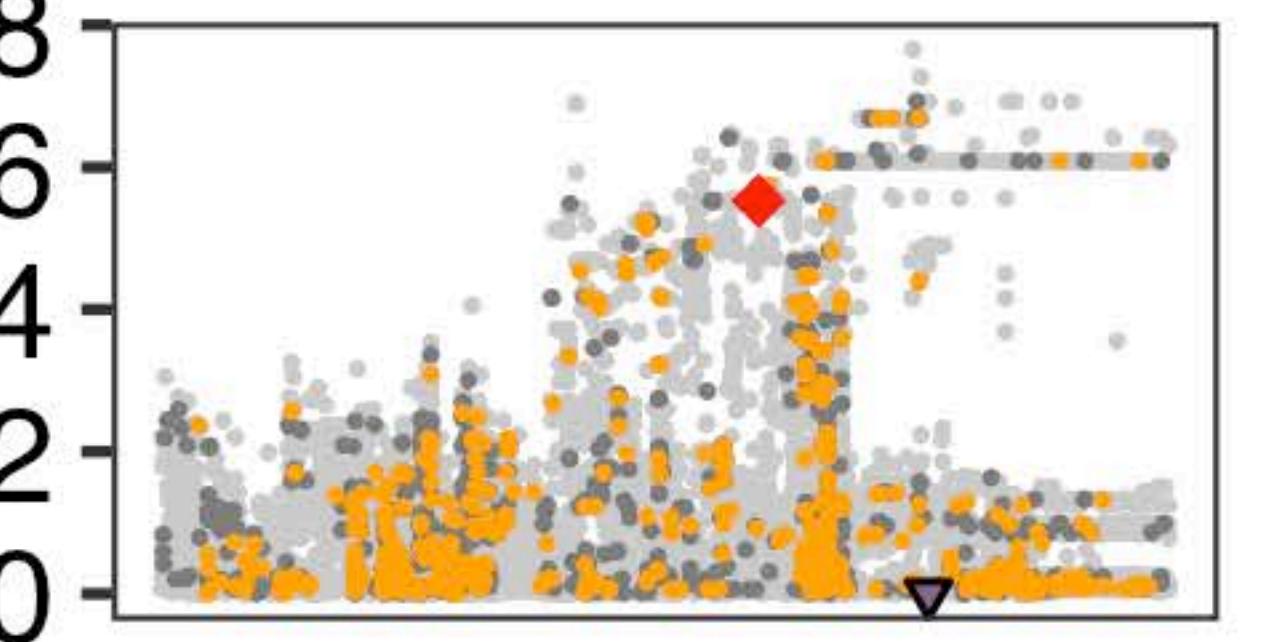
C17C3.15.1



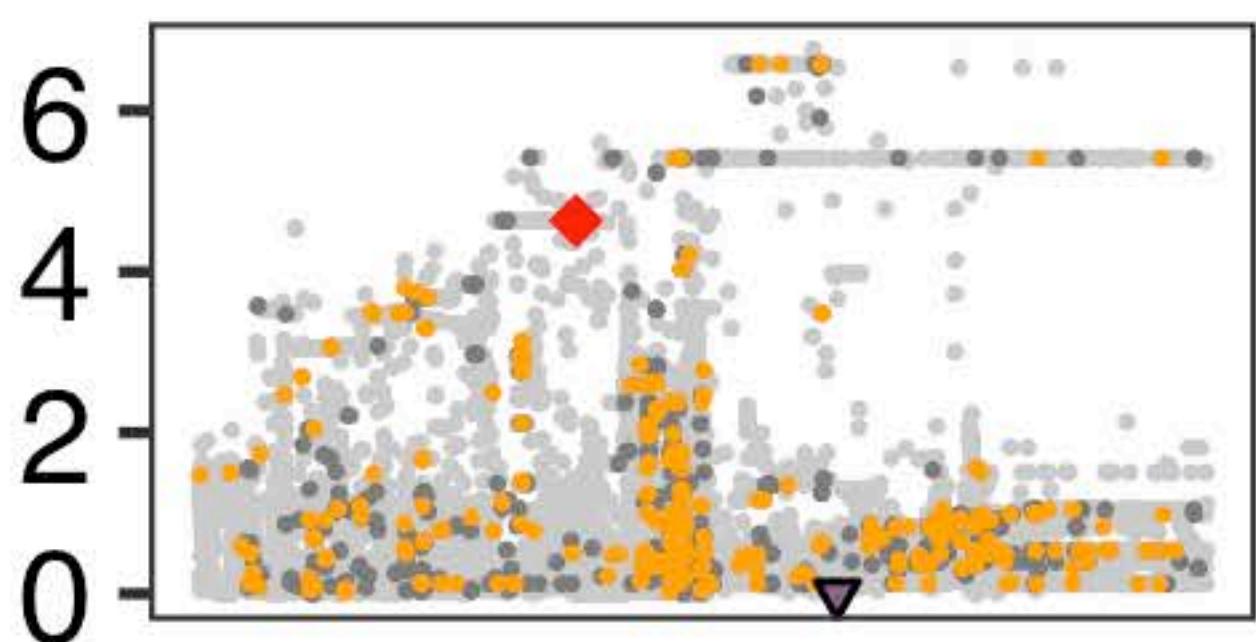
C29F5.2



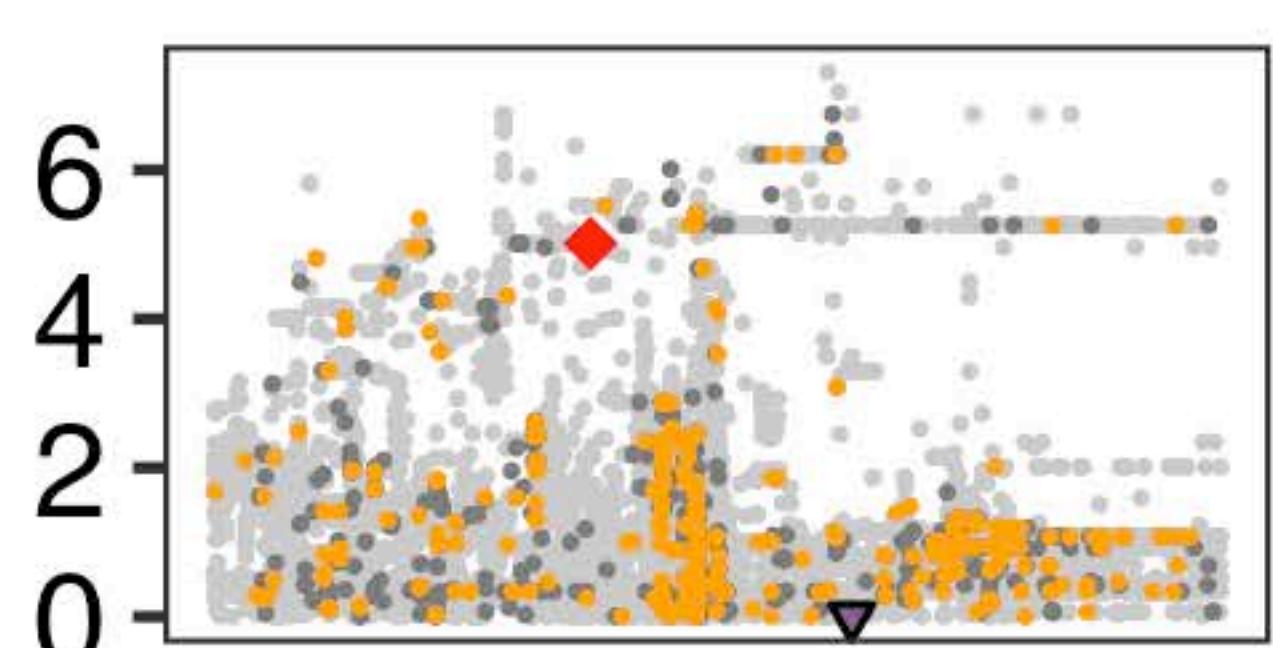
C55C3.8.1



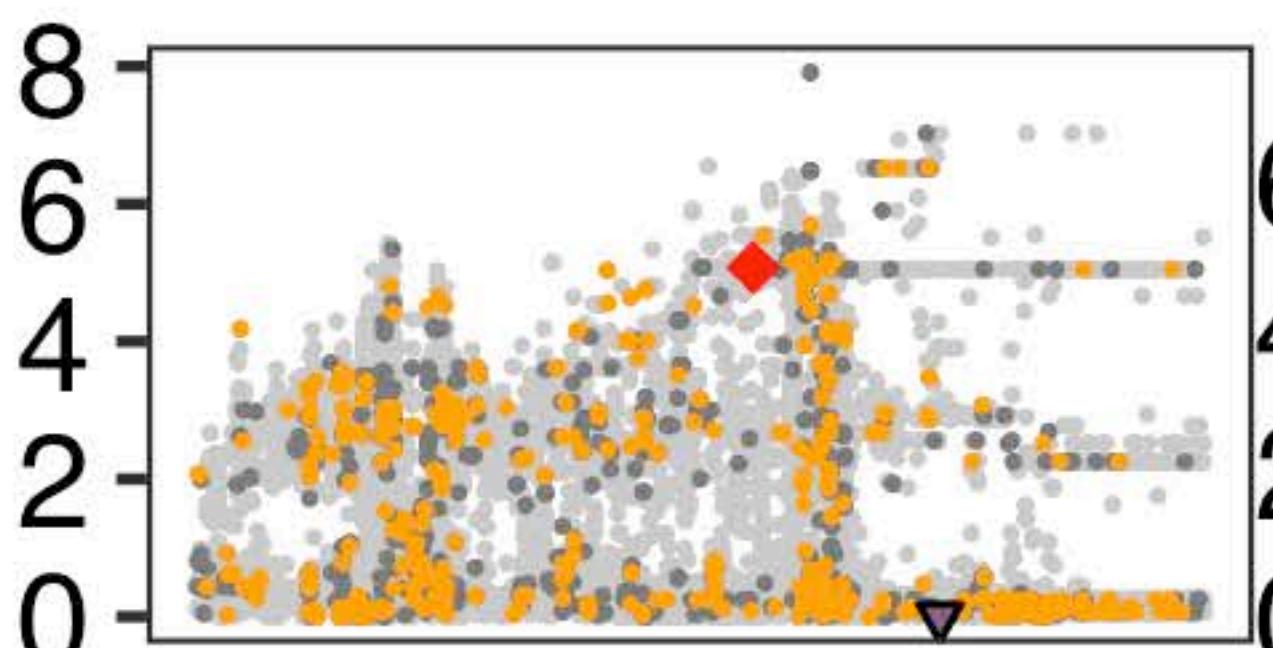
F22D6.8.1



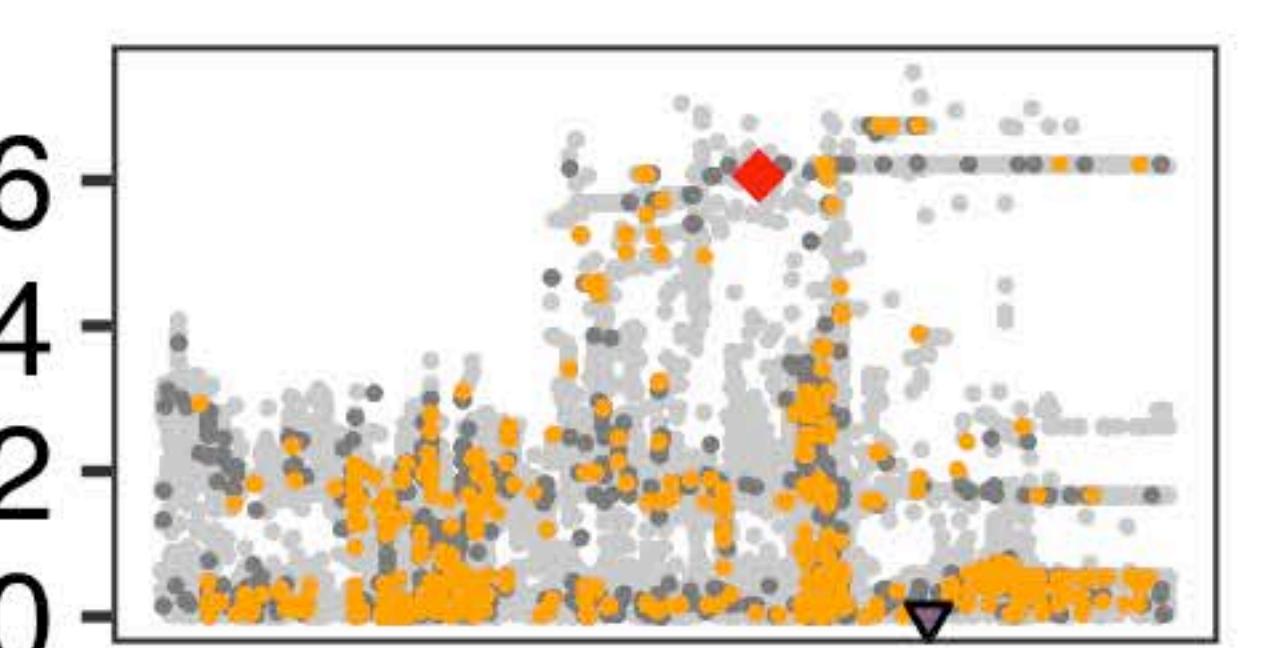
F25B5.4.1



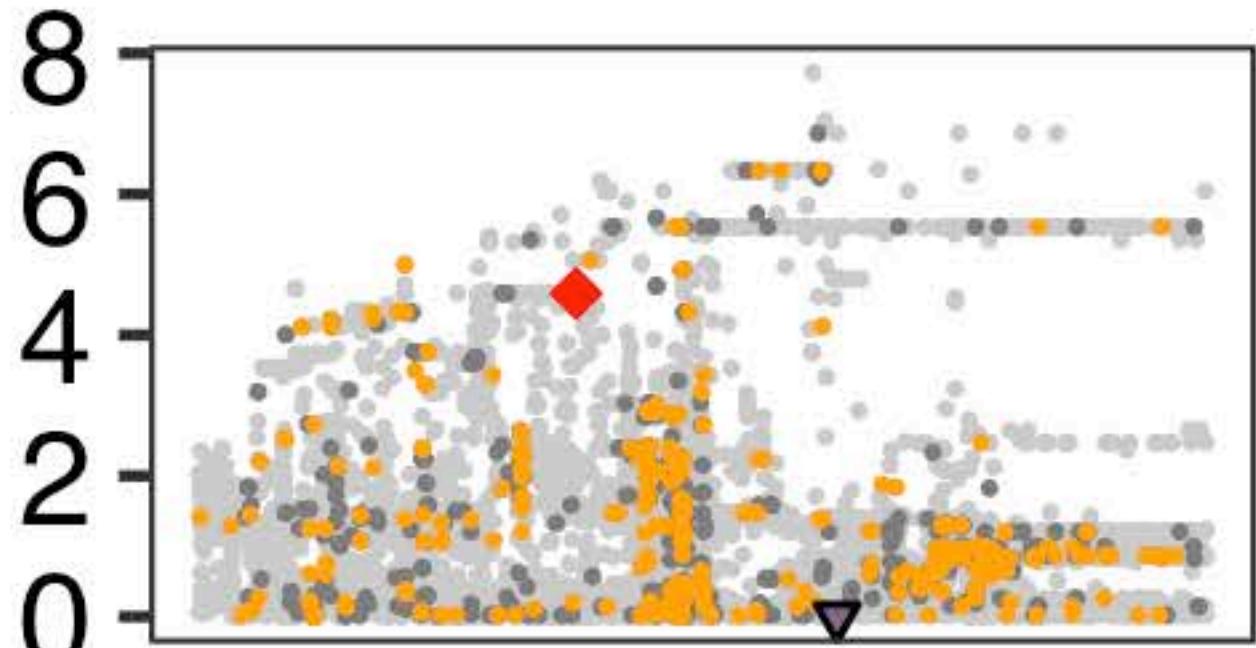
F59B1.2.2



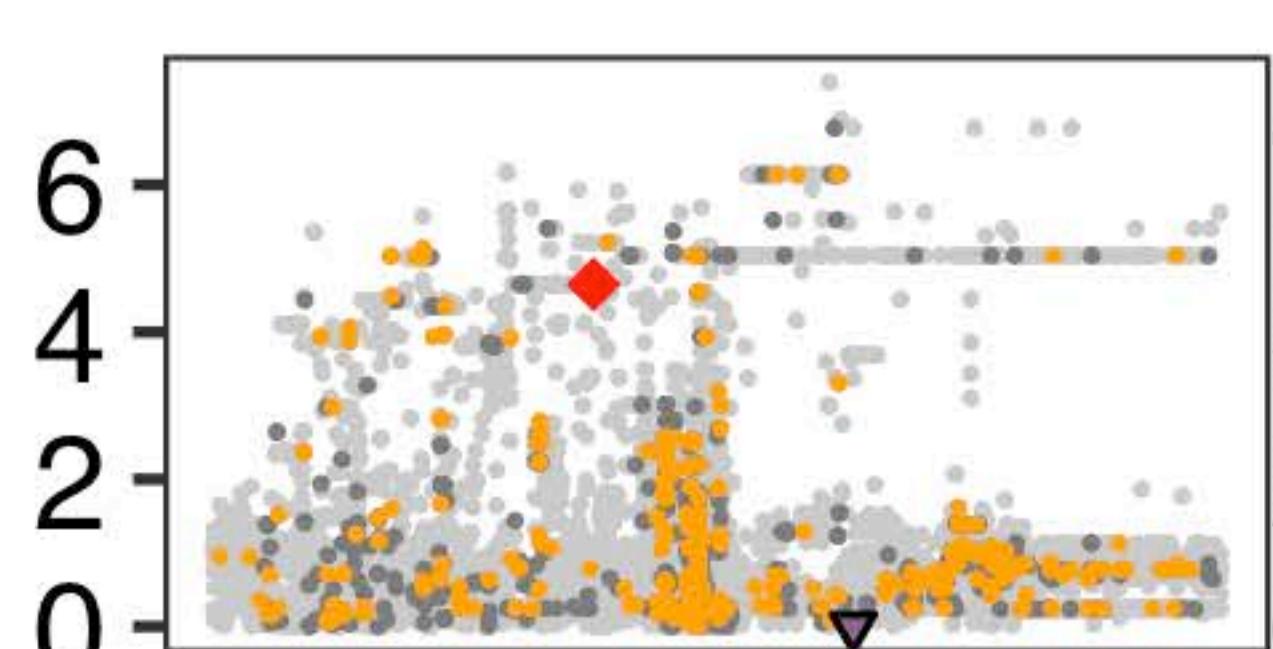
K11D2.4e.1



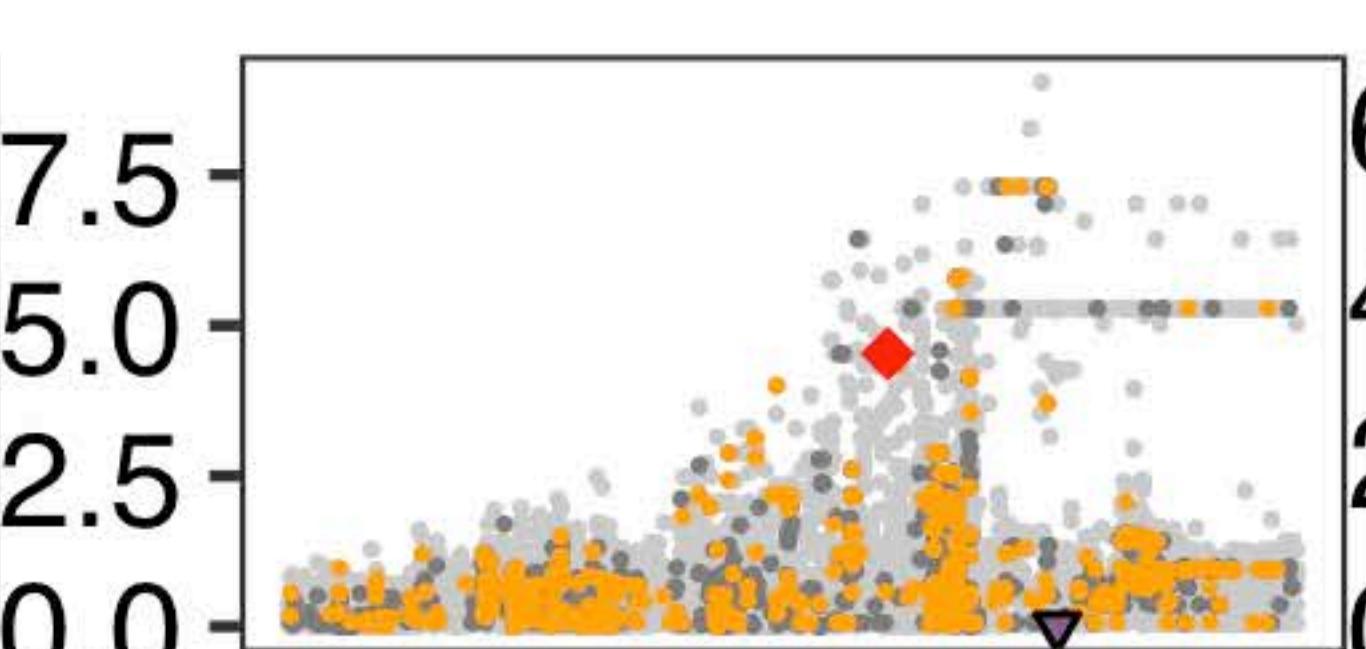
M110.4a.1



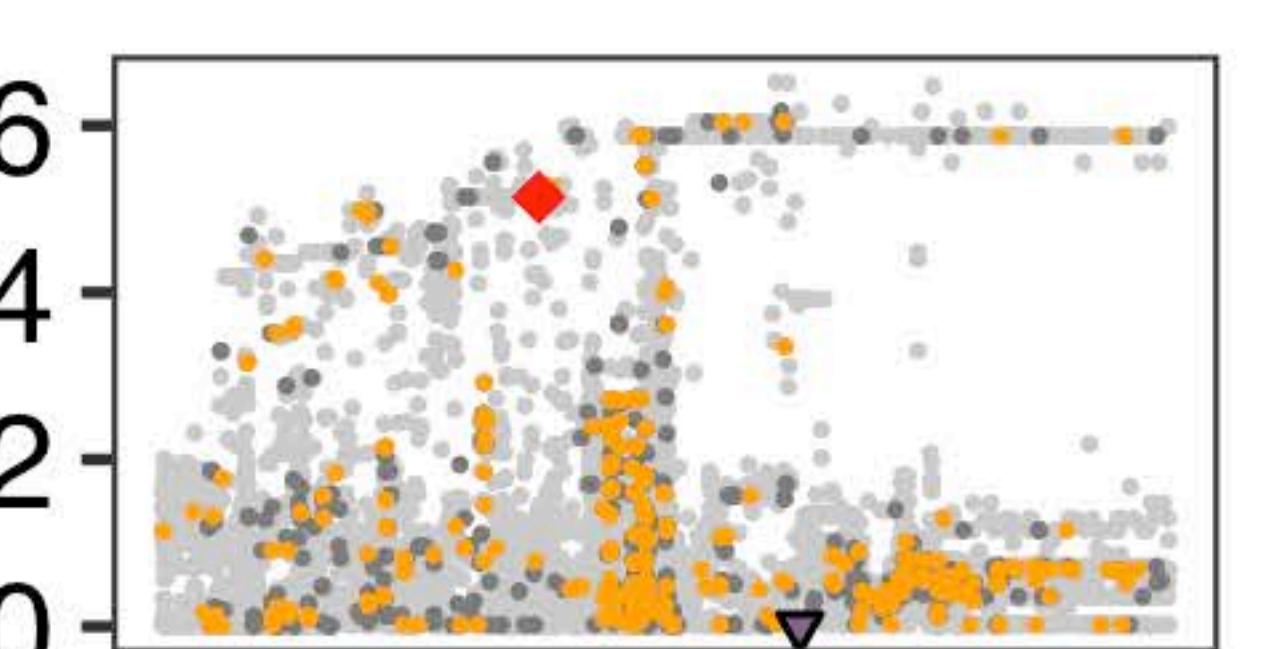
M28.4.1



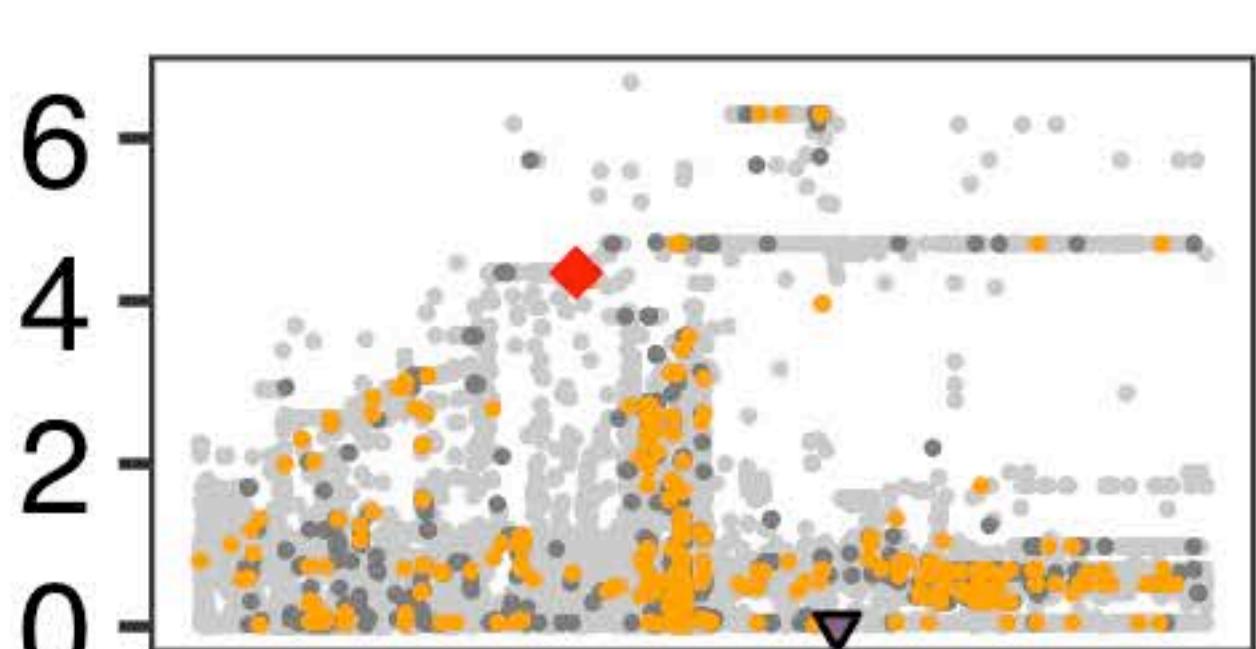
R02C2.8



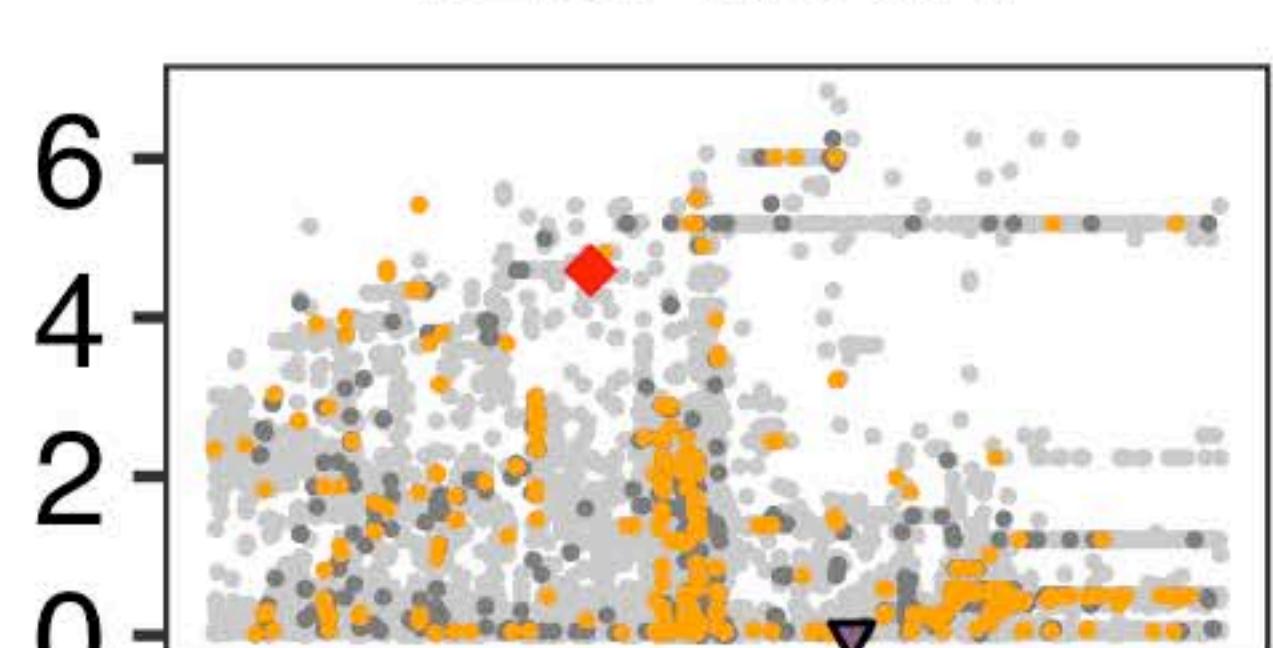
R03D7.5a.1



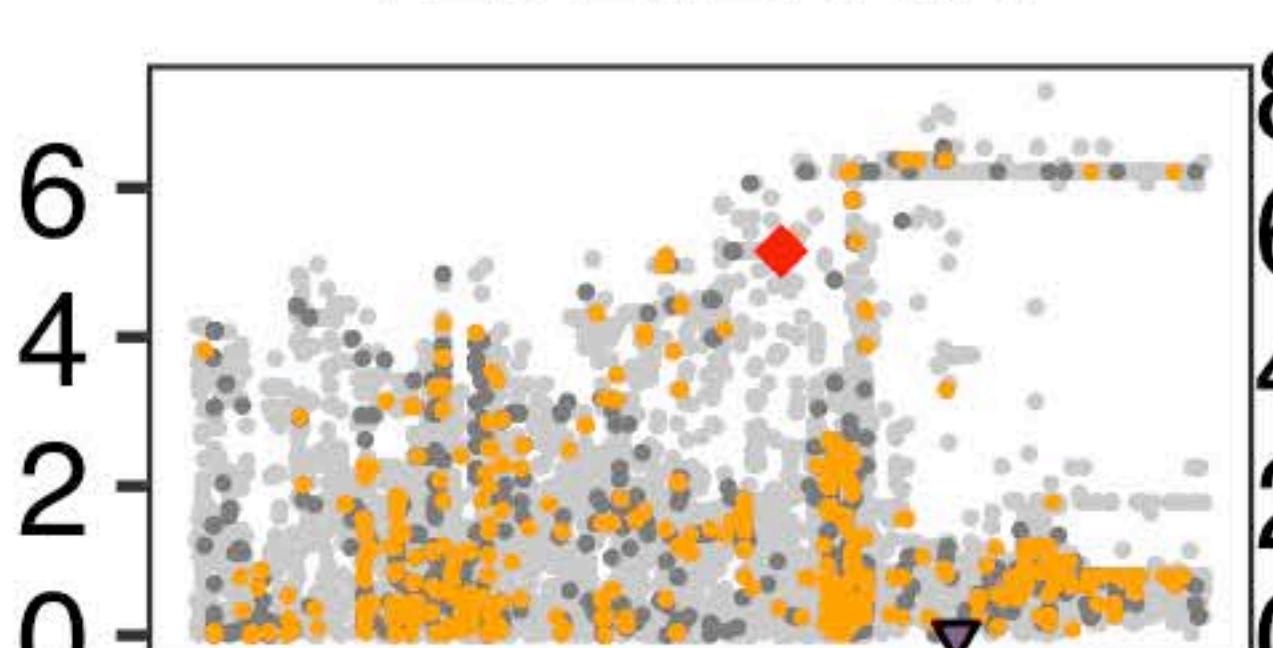
T14G10.8a.2



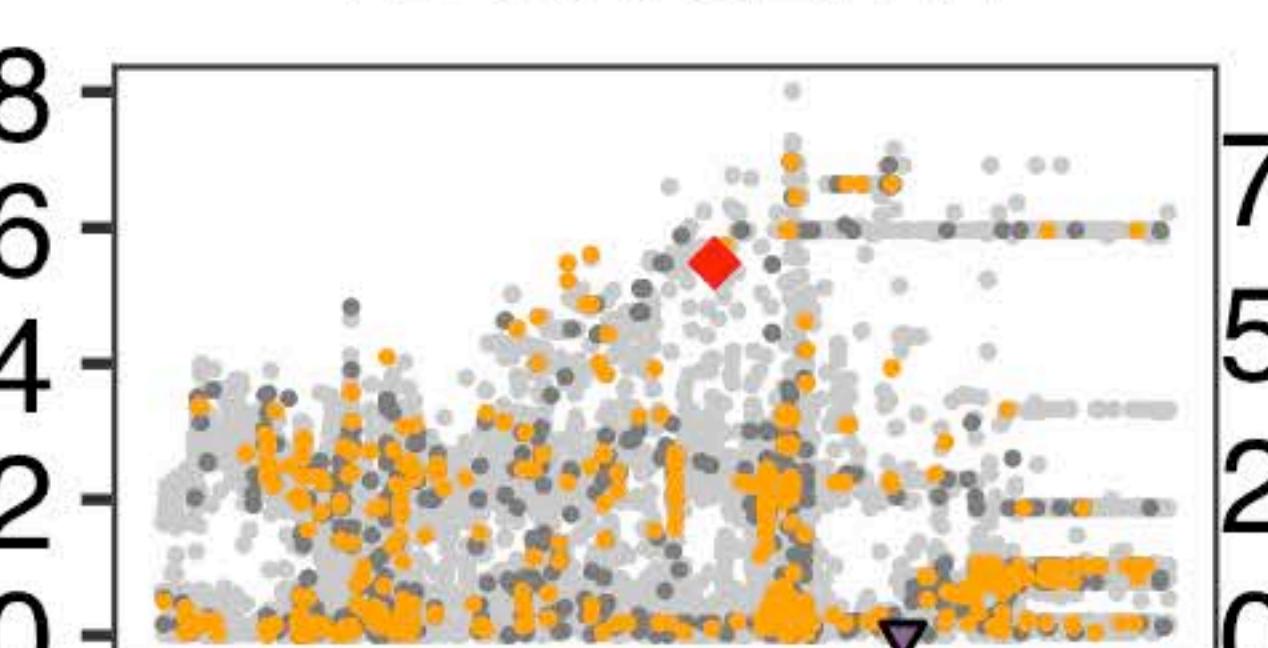
T23F6.3a.1



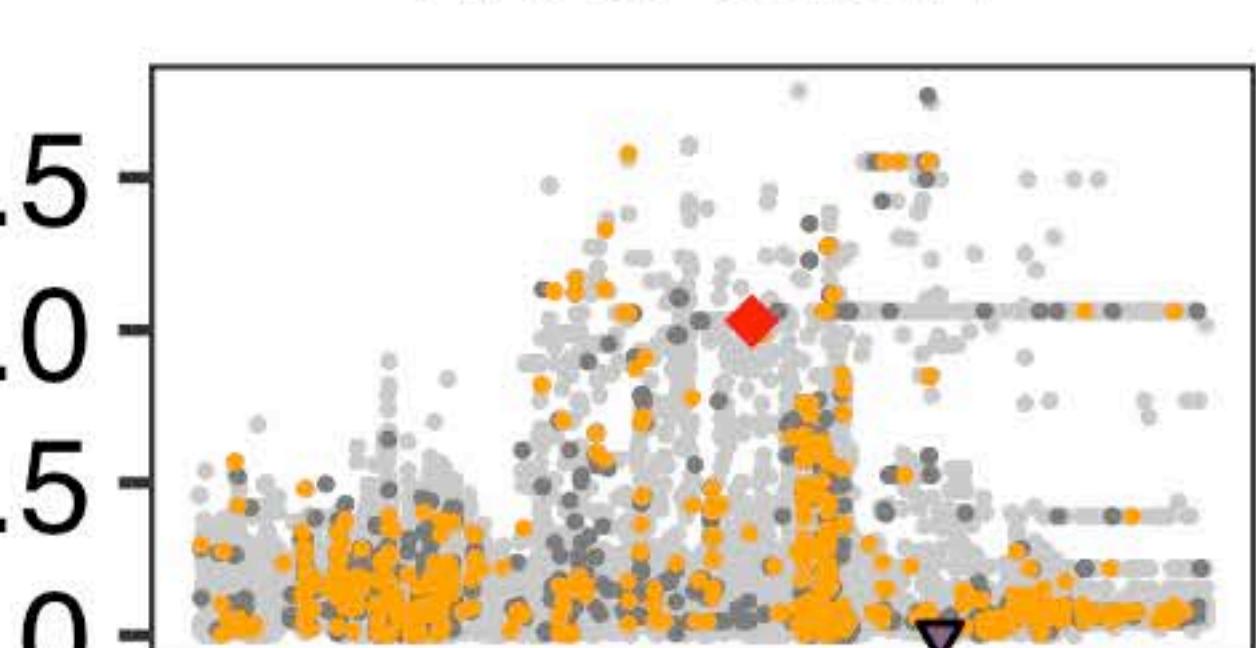
T25E12.16.1



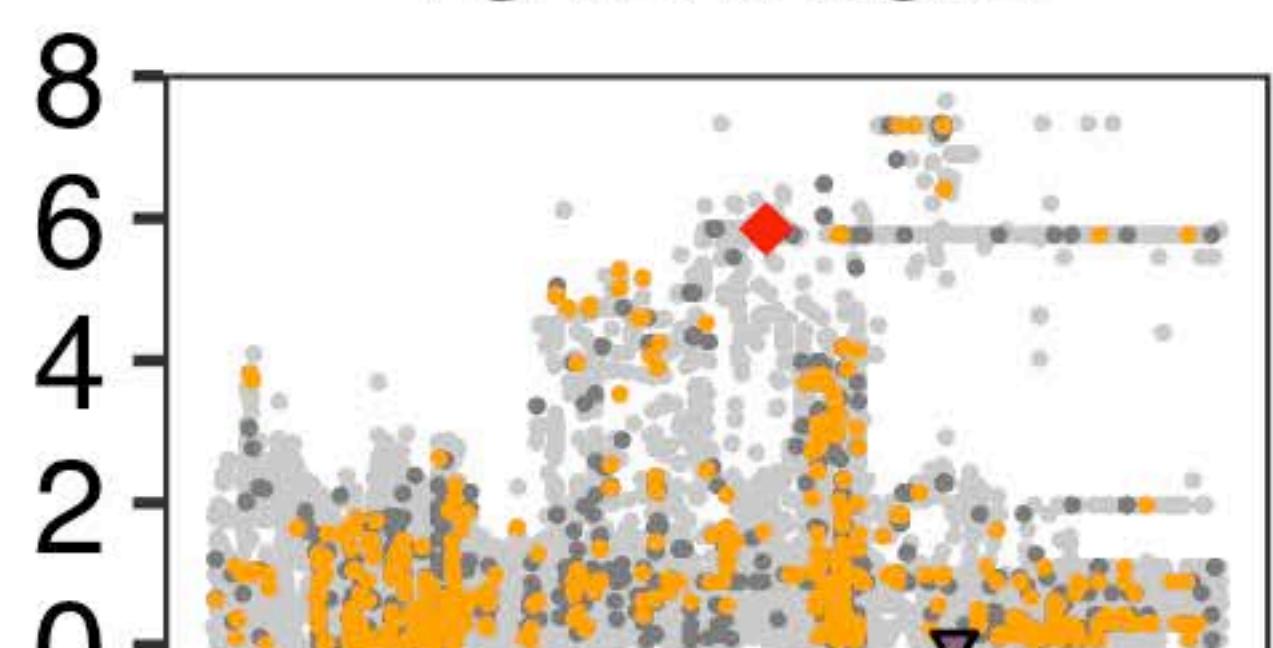
VB0395L.1.1



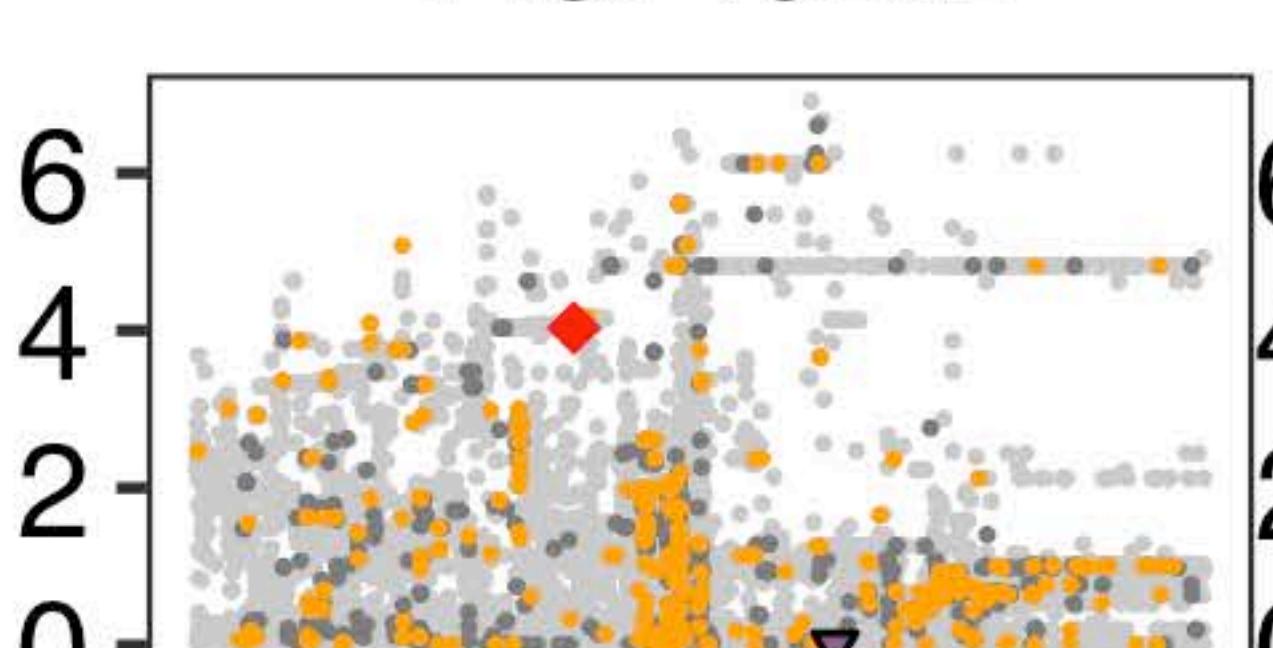
W05H5.3.1



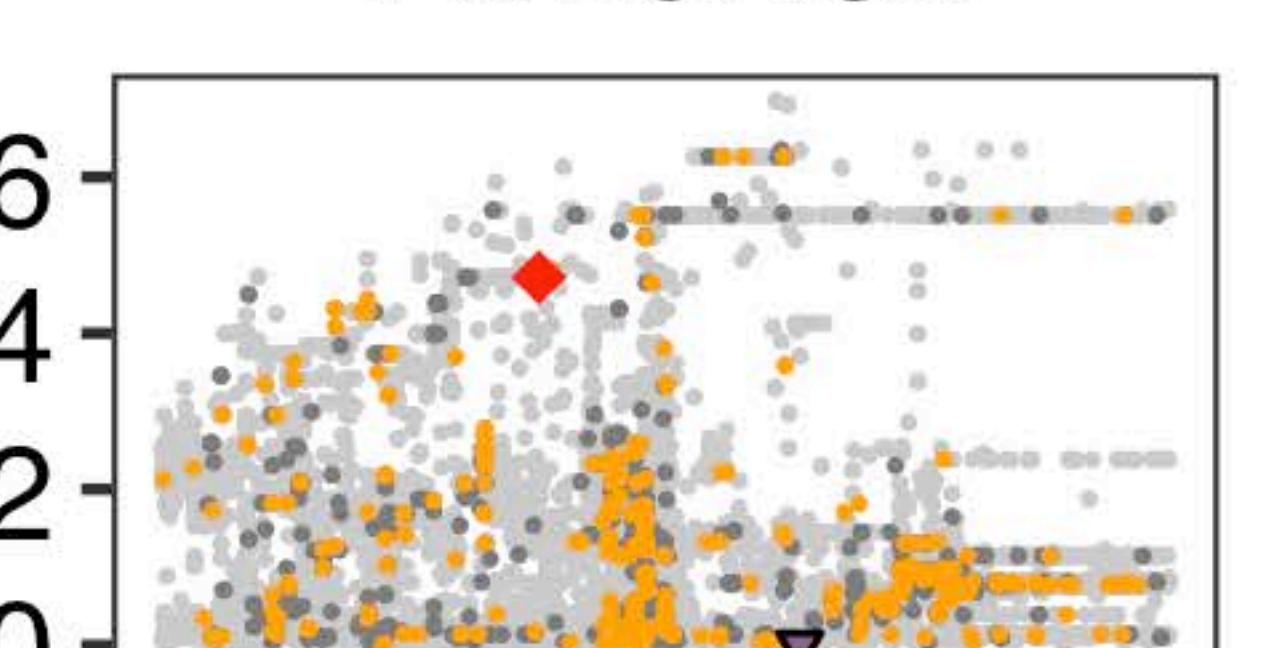
Y34B4A.3.2



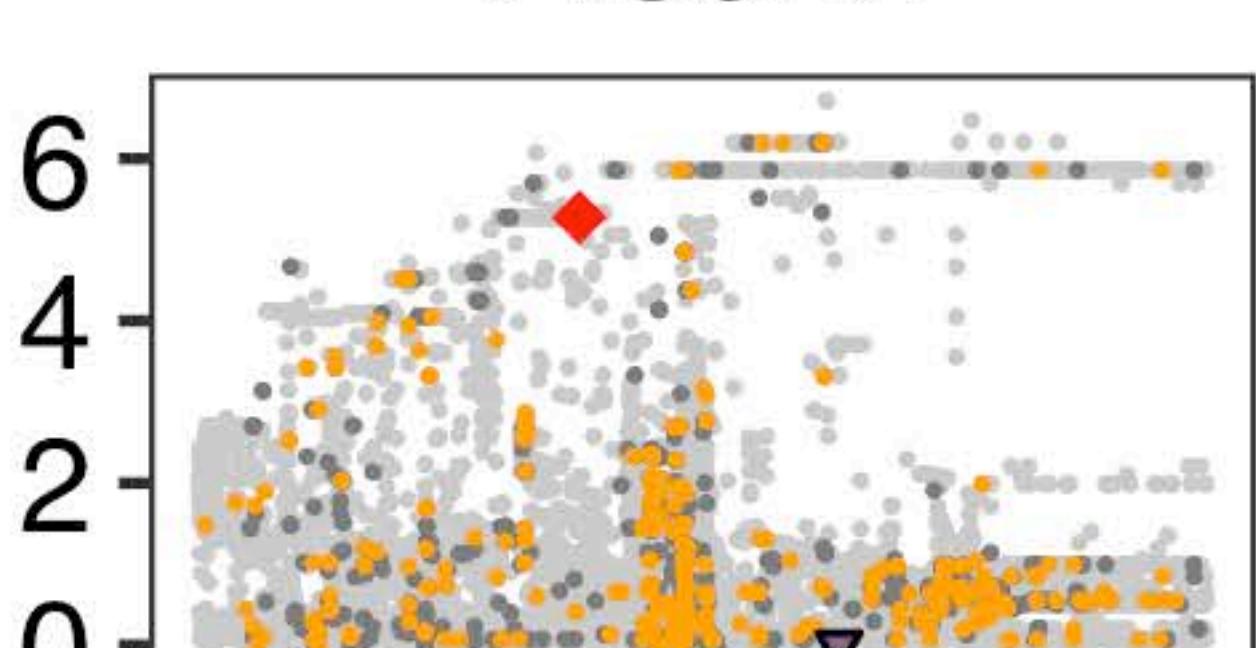
Y45F10B.2



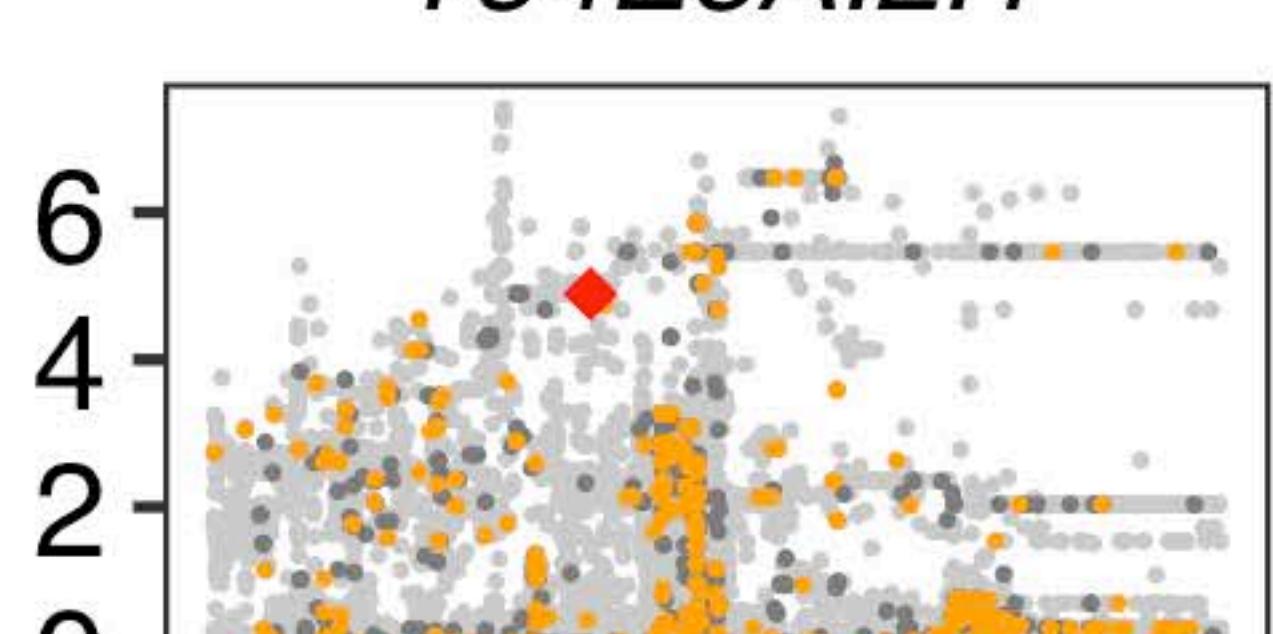
Y47D9A.3.1



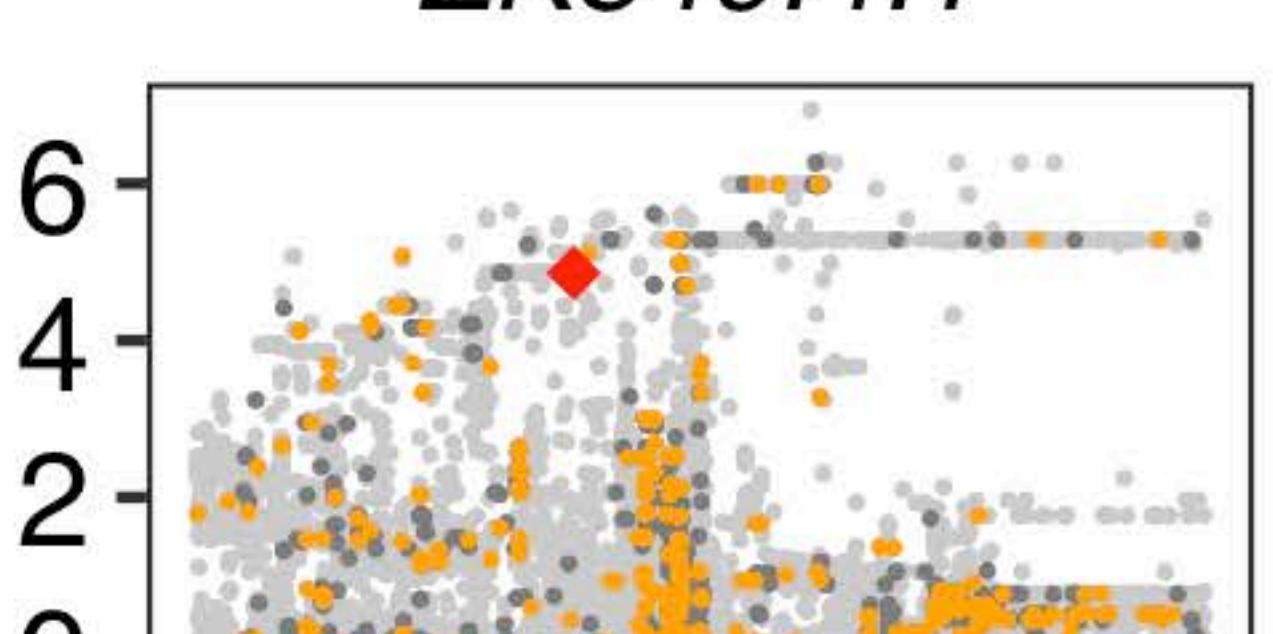
Y4C6A.1



Y54E5A.2.1

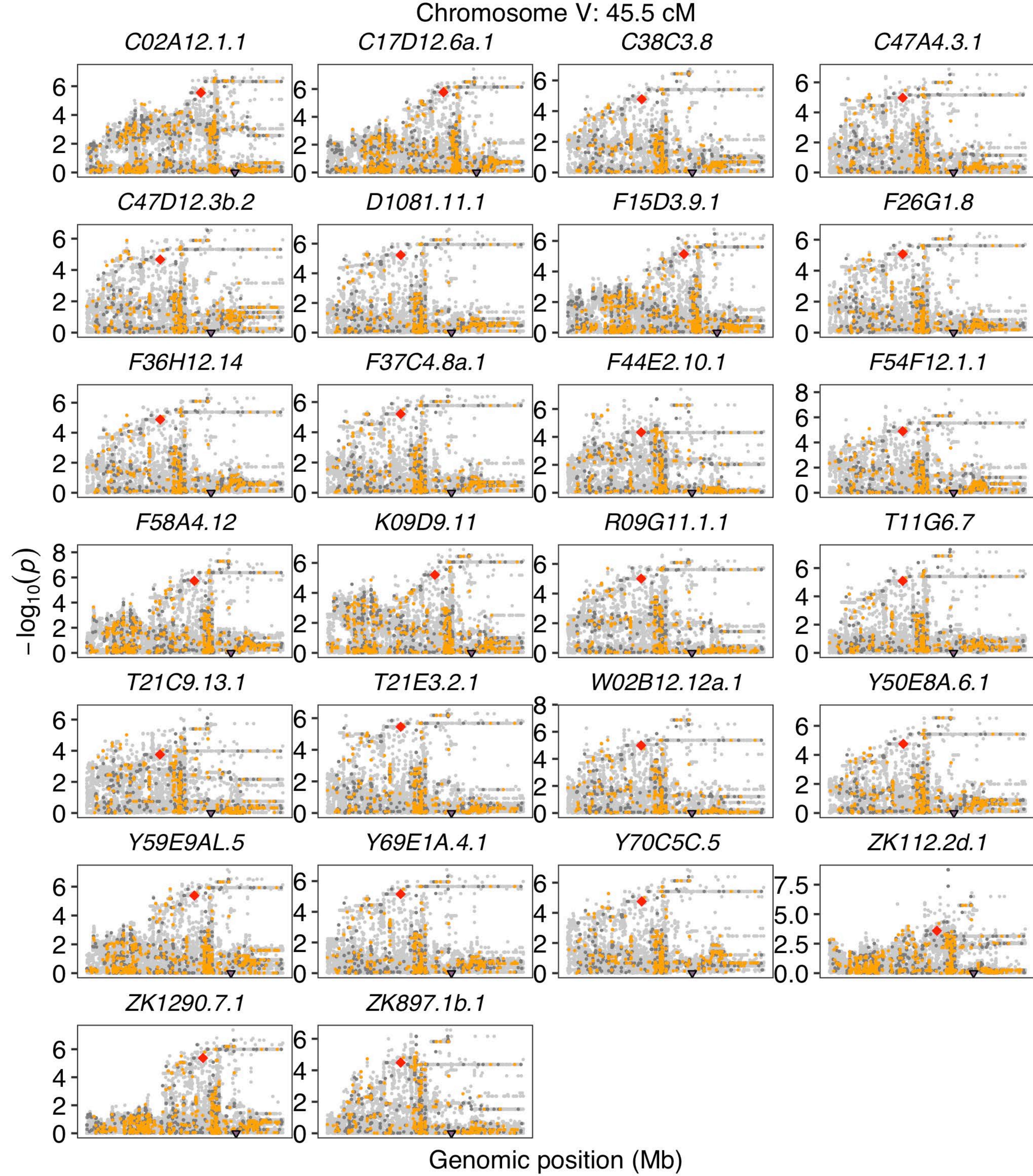


ZK849.4.1



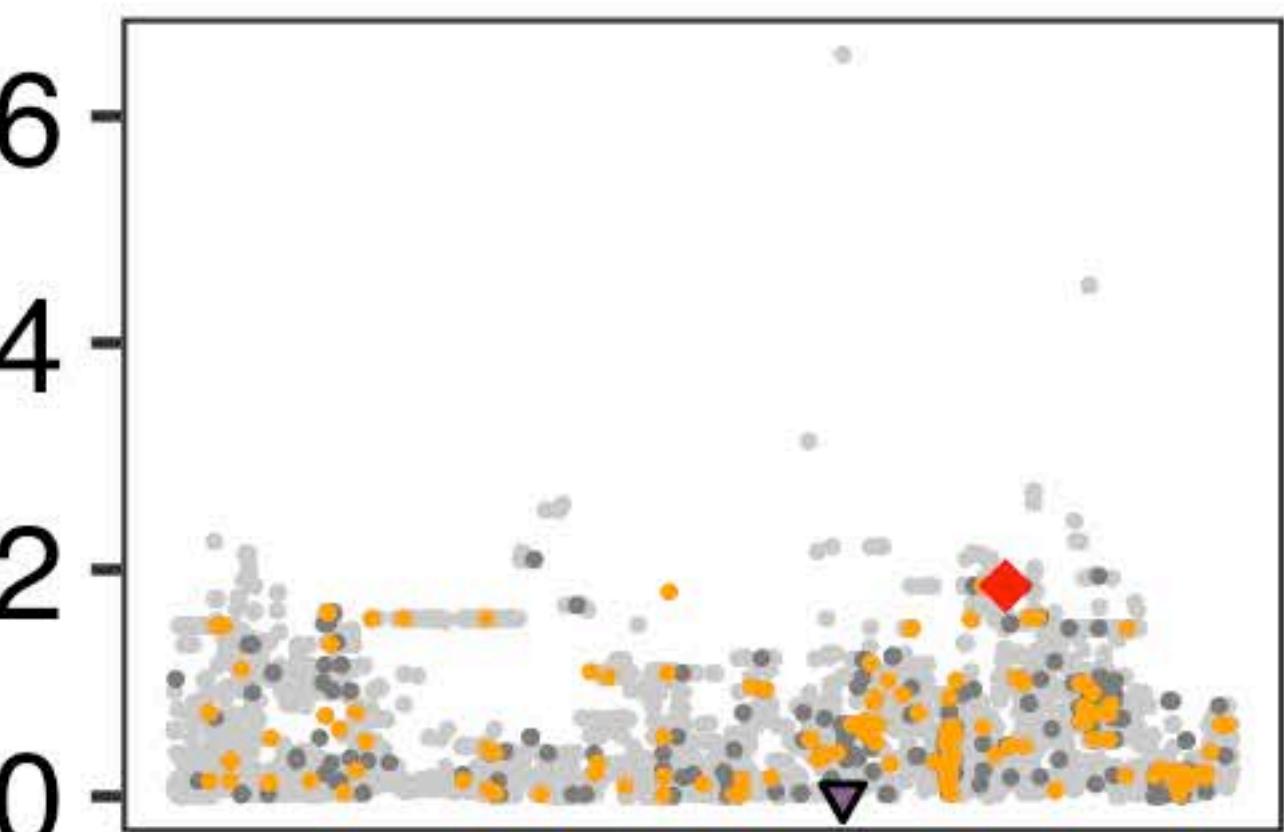
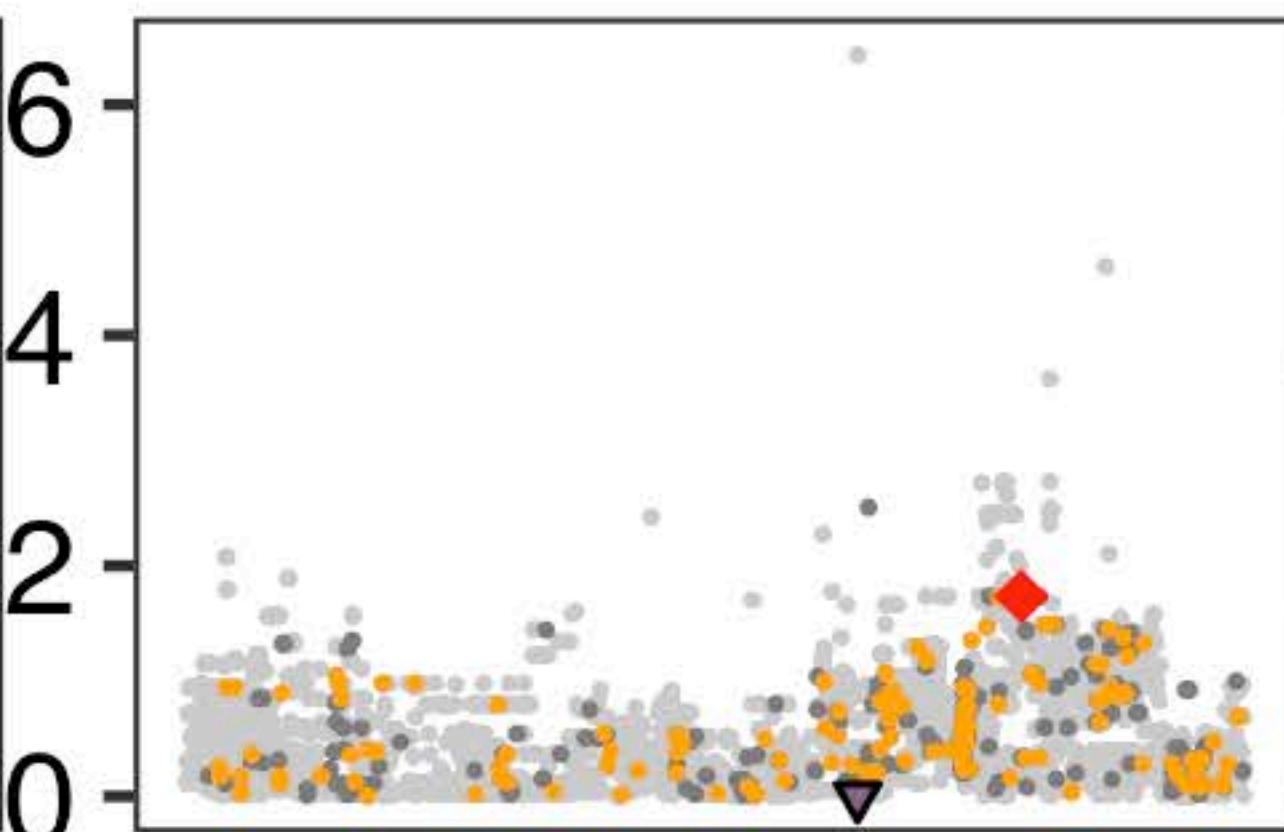
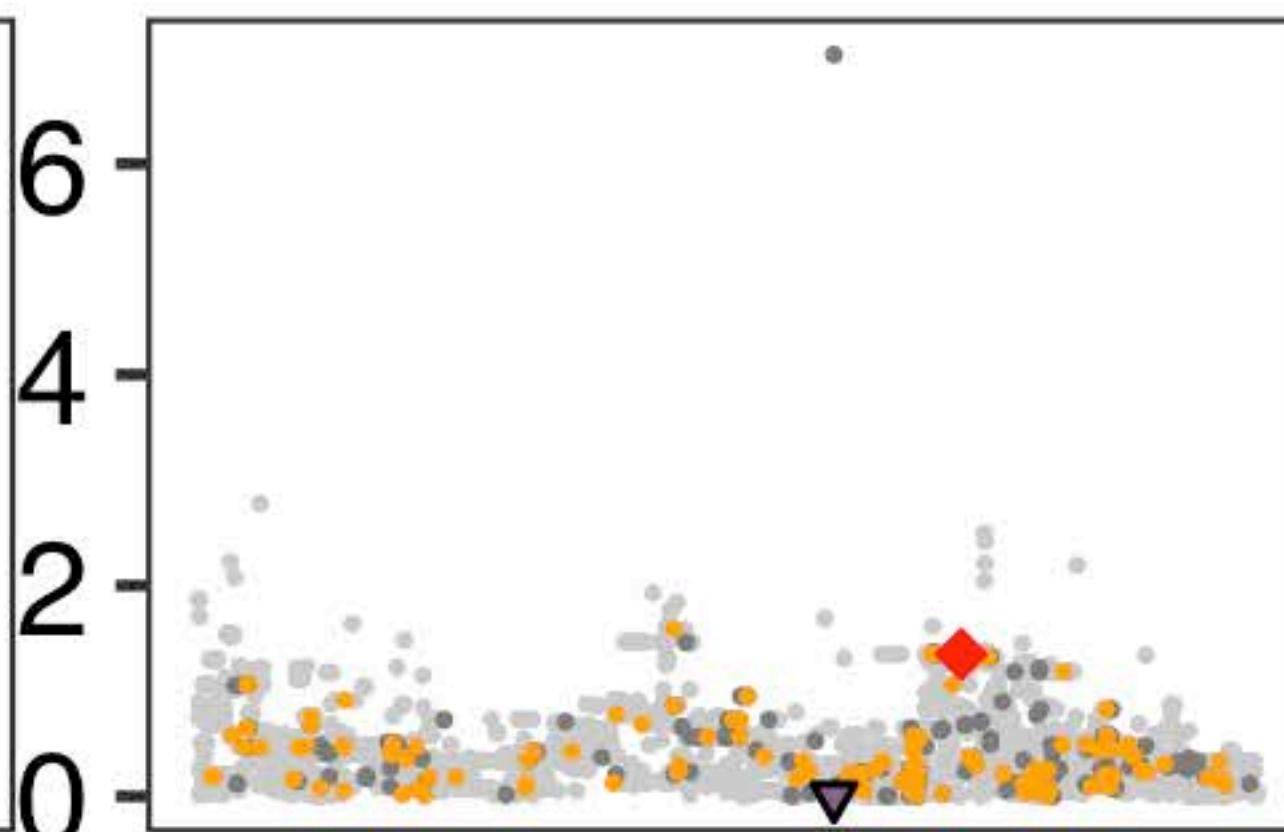
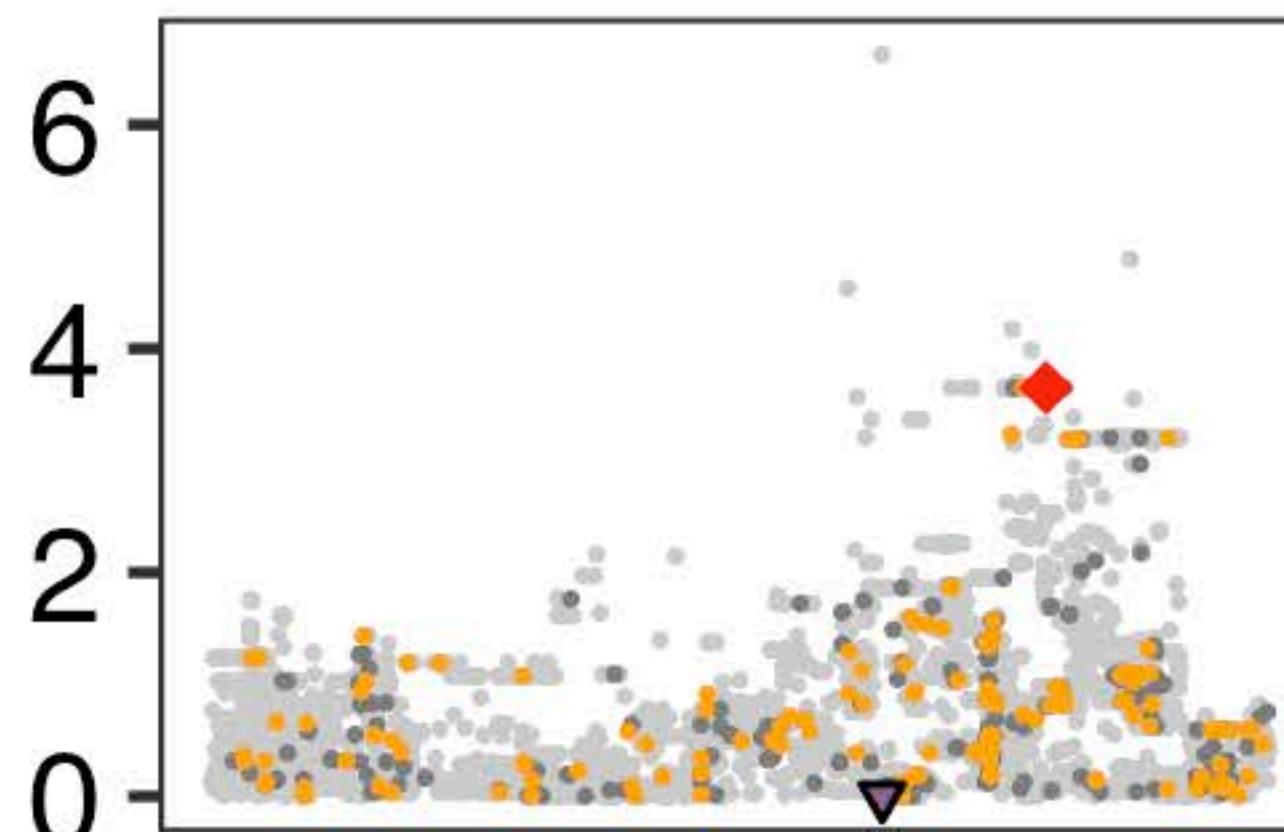
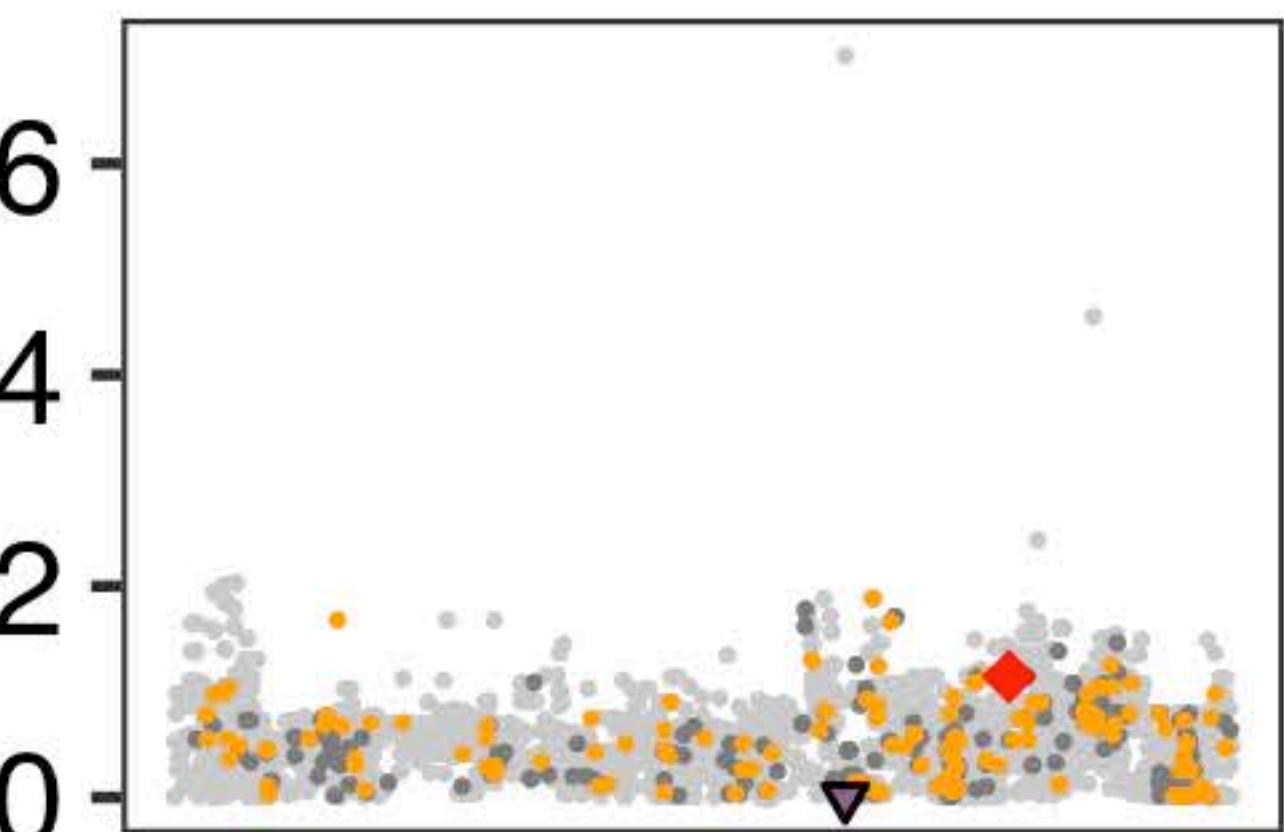
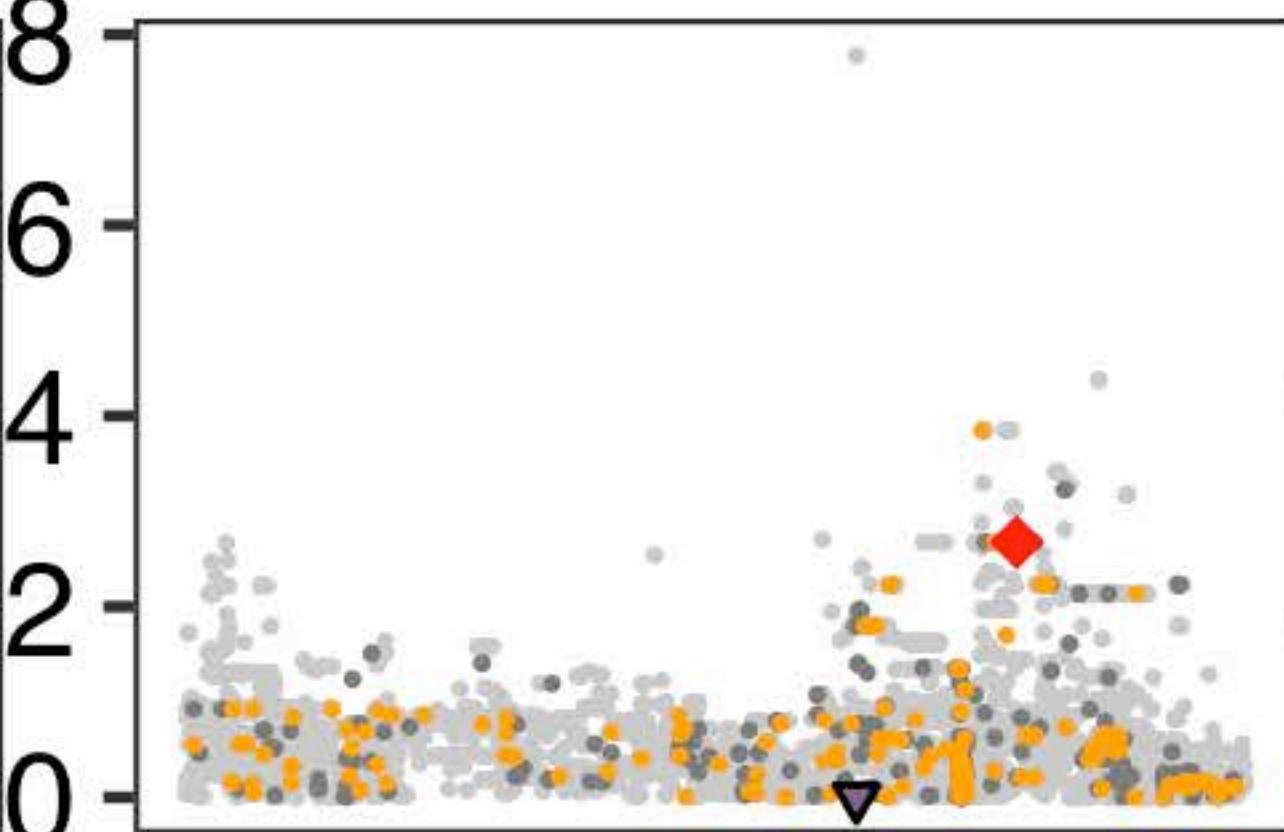
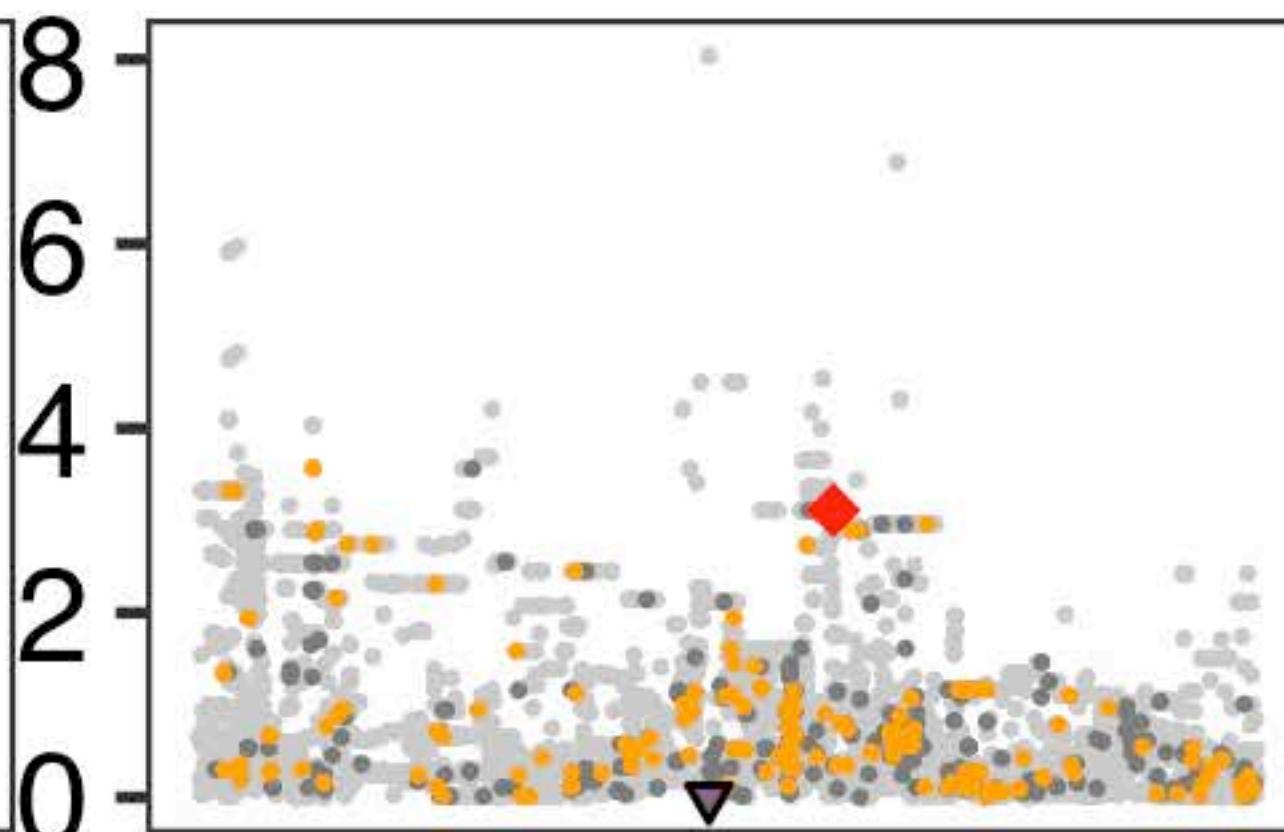
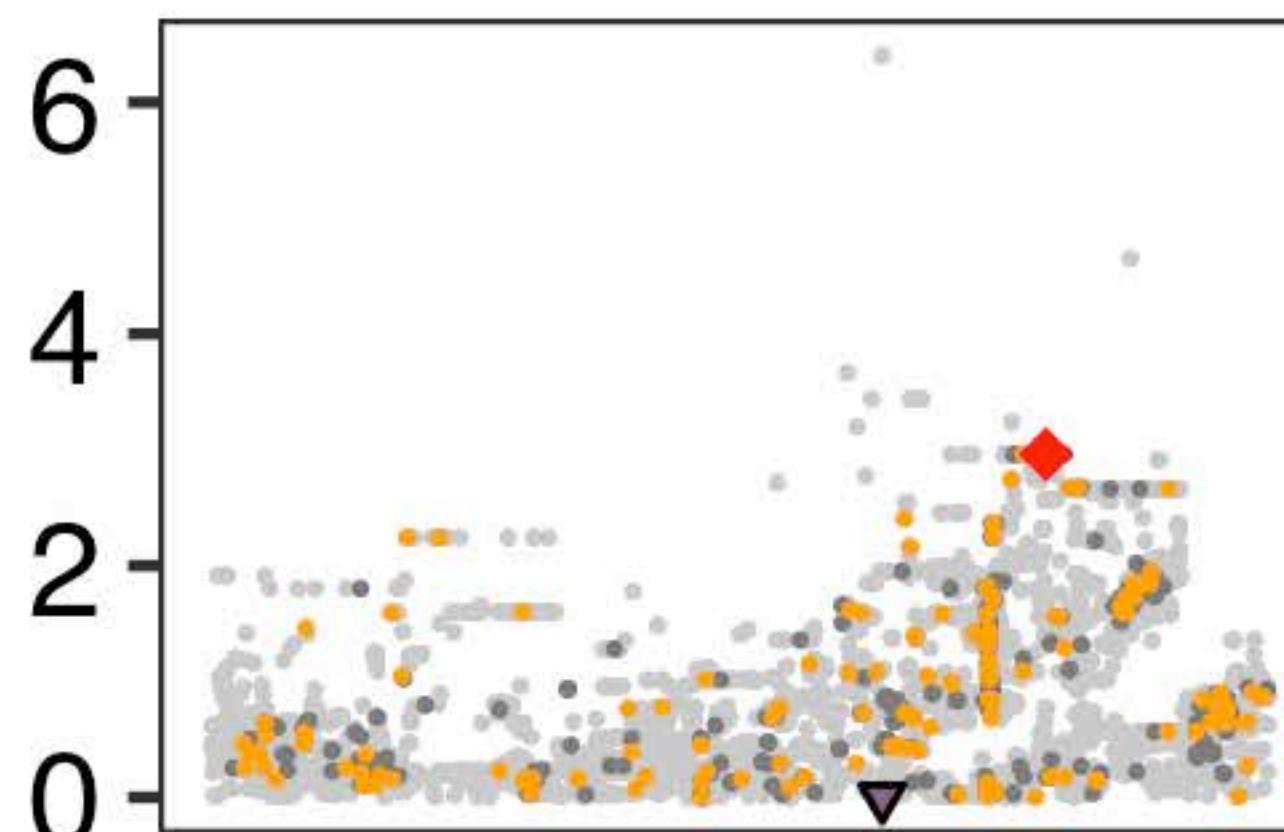
Genomic position (Mb)

Candidate genes ♦ *ttx-1*



Candidate genes • *ttx-1*

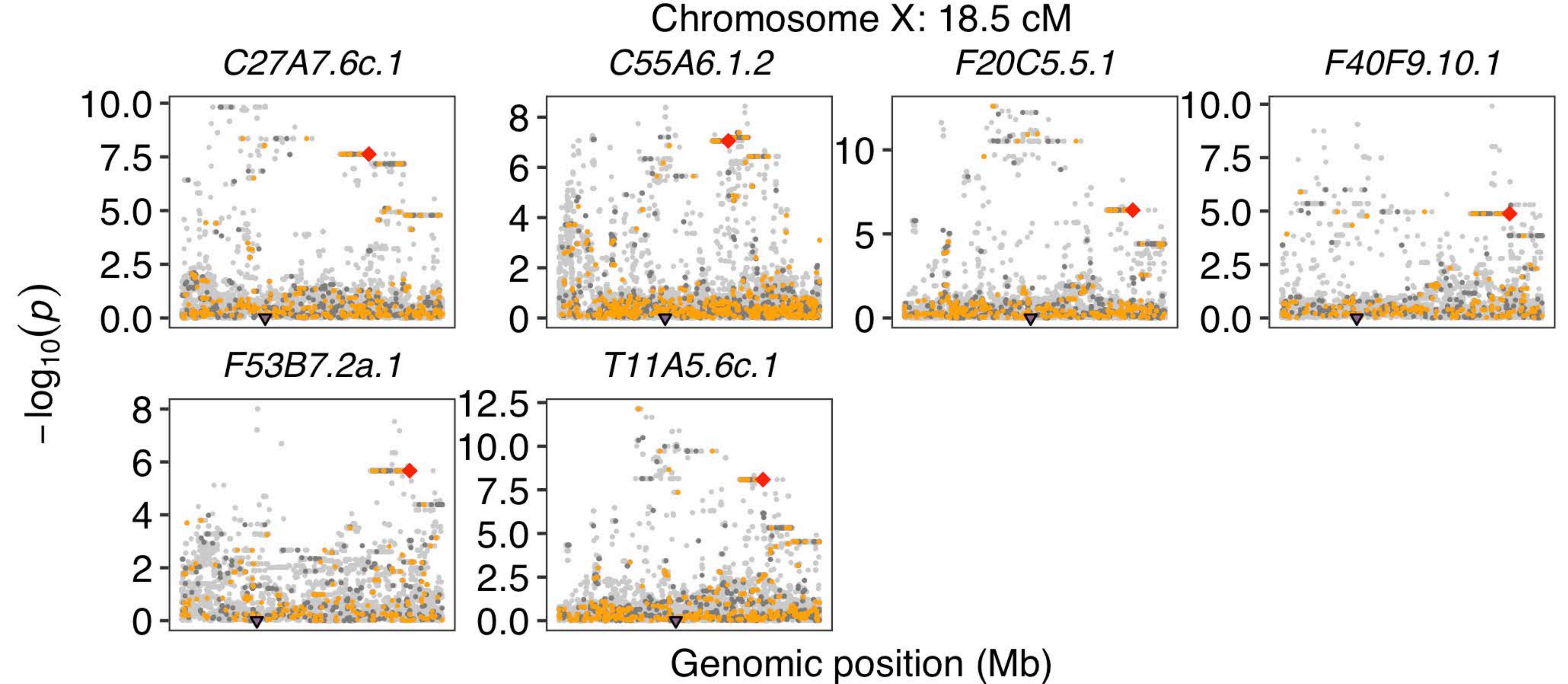
Chromosome X: 14 cM

*C08B6.6.1**F36G9.13.1**T20B6.2**T20H9.6* $-\log_{10}(p)$ *Y18H1A.11c.1**Y38C1AB.8b.1**Y73C8C.10.1**Y74C9A.2a.2*

Genomic position (Mb)

Candidate genes

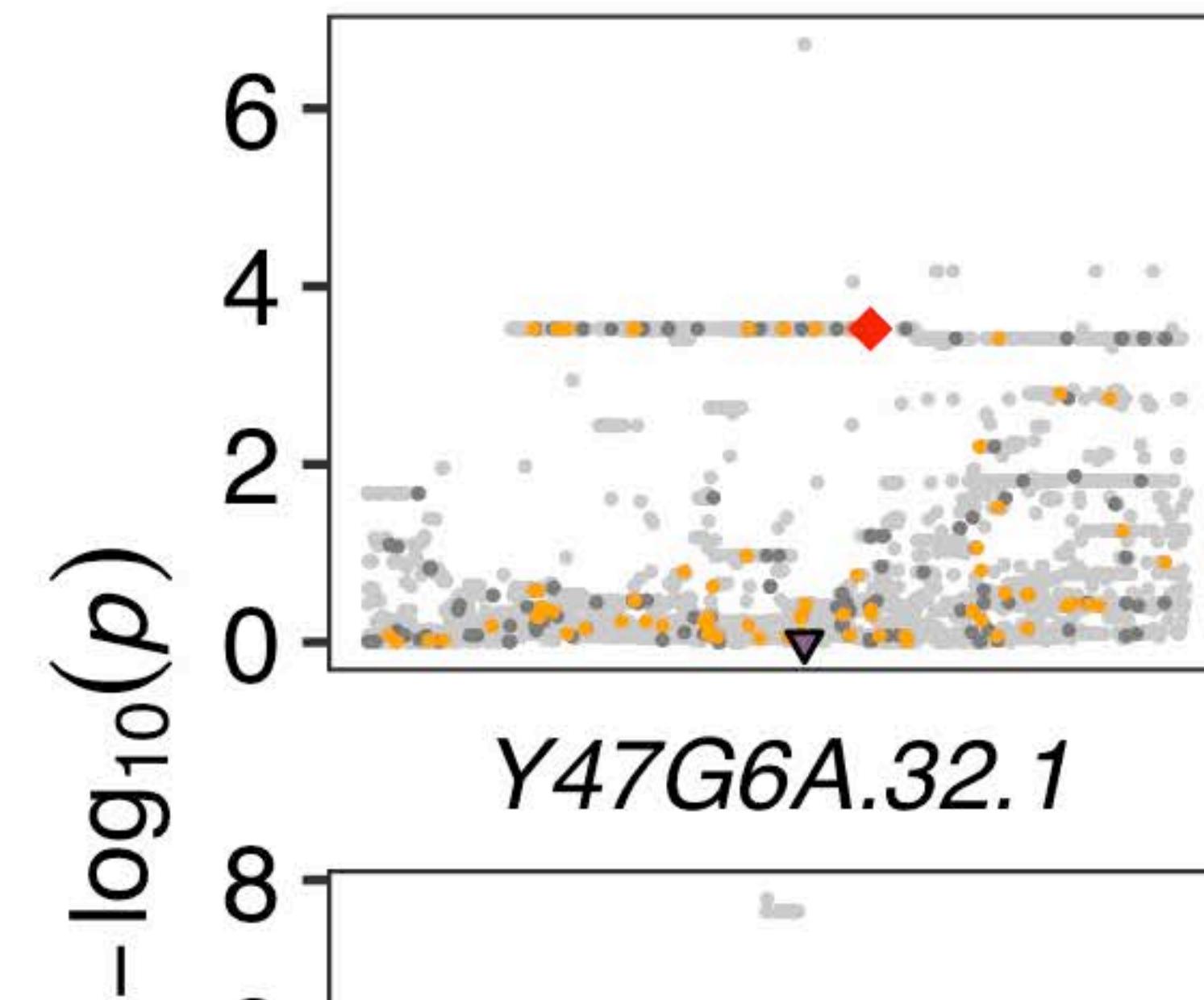
◆ ZC8.6



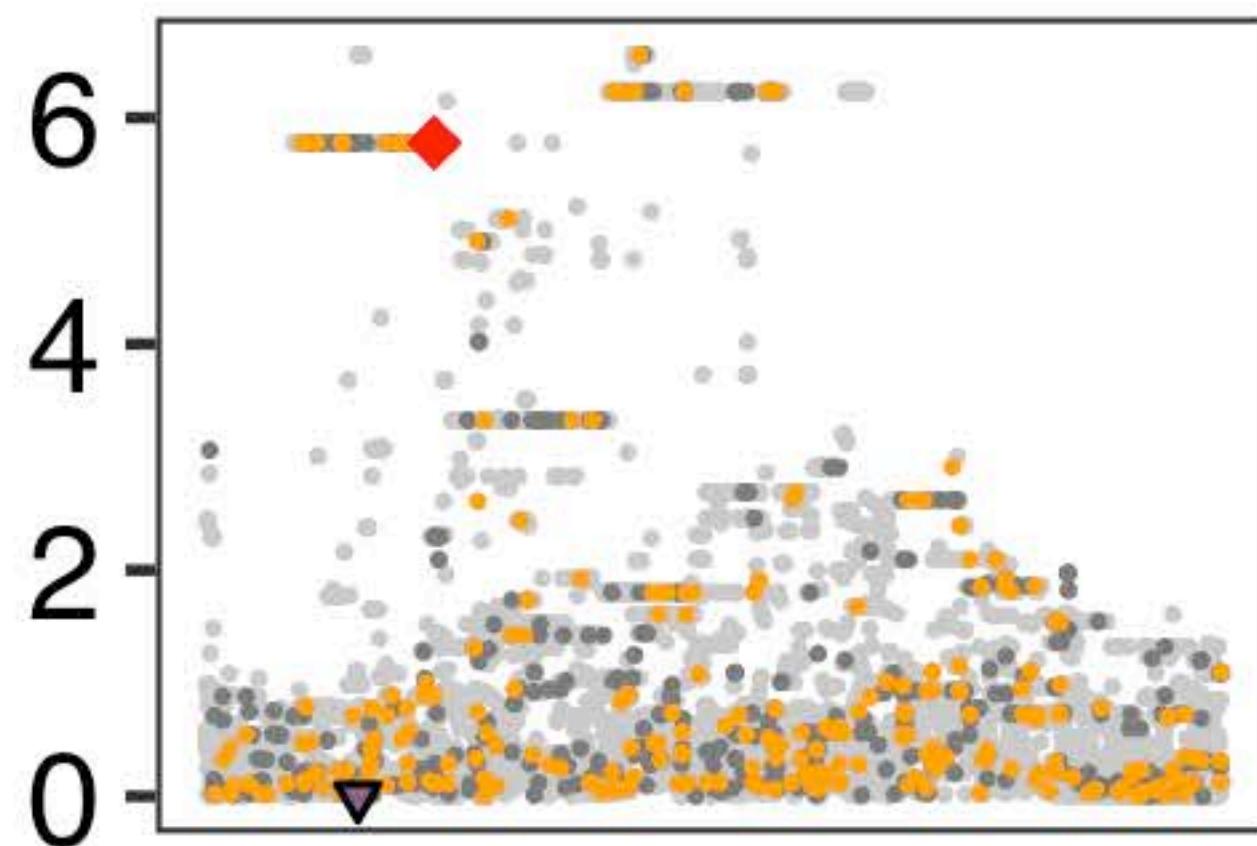
Candidate genes *sprp-4*

Chromosome X: 21.5 cM

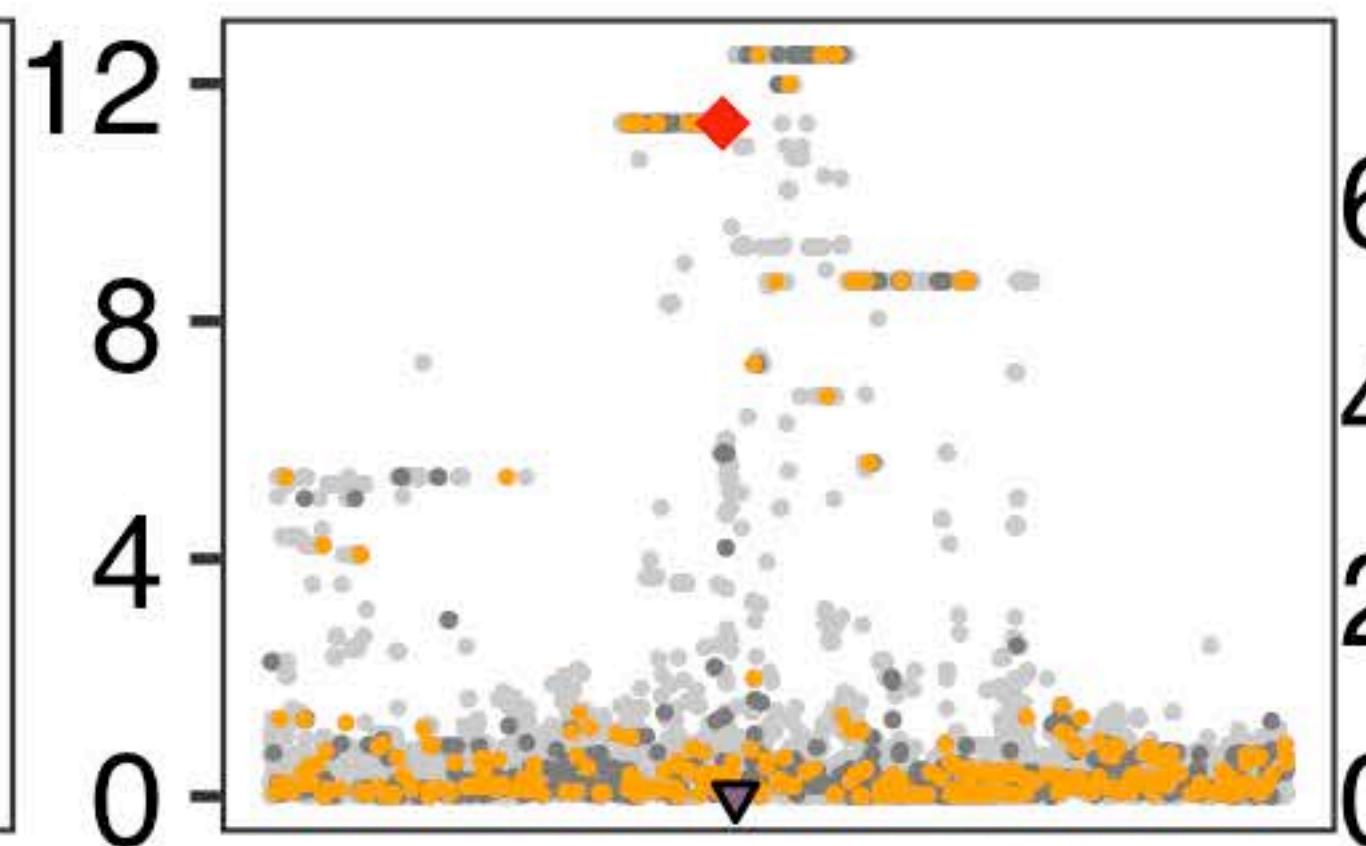
C01G12.1.2



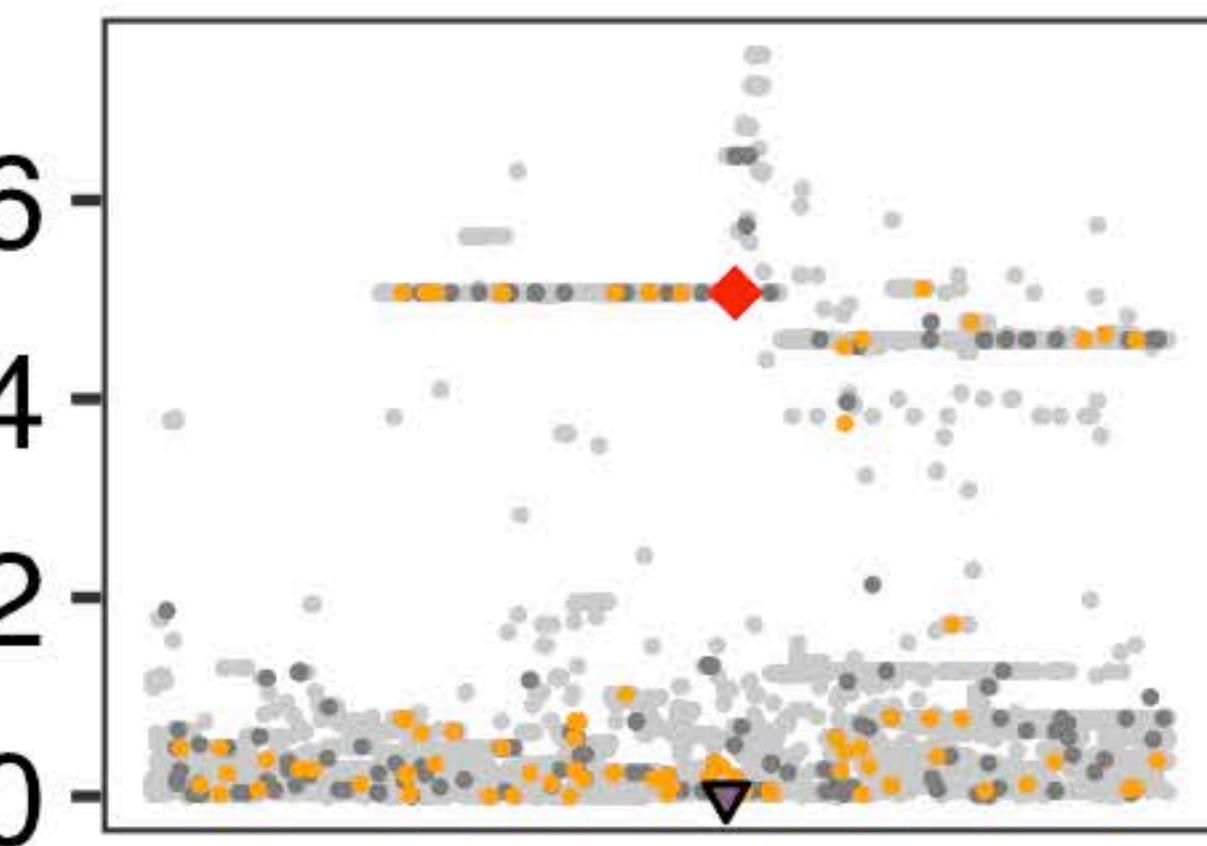
K04D7.2b.2



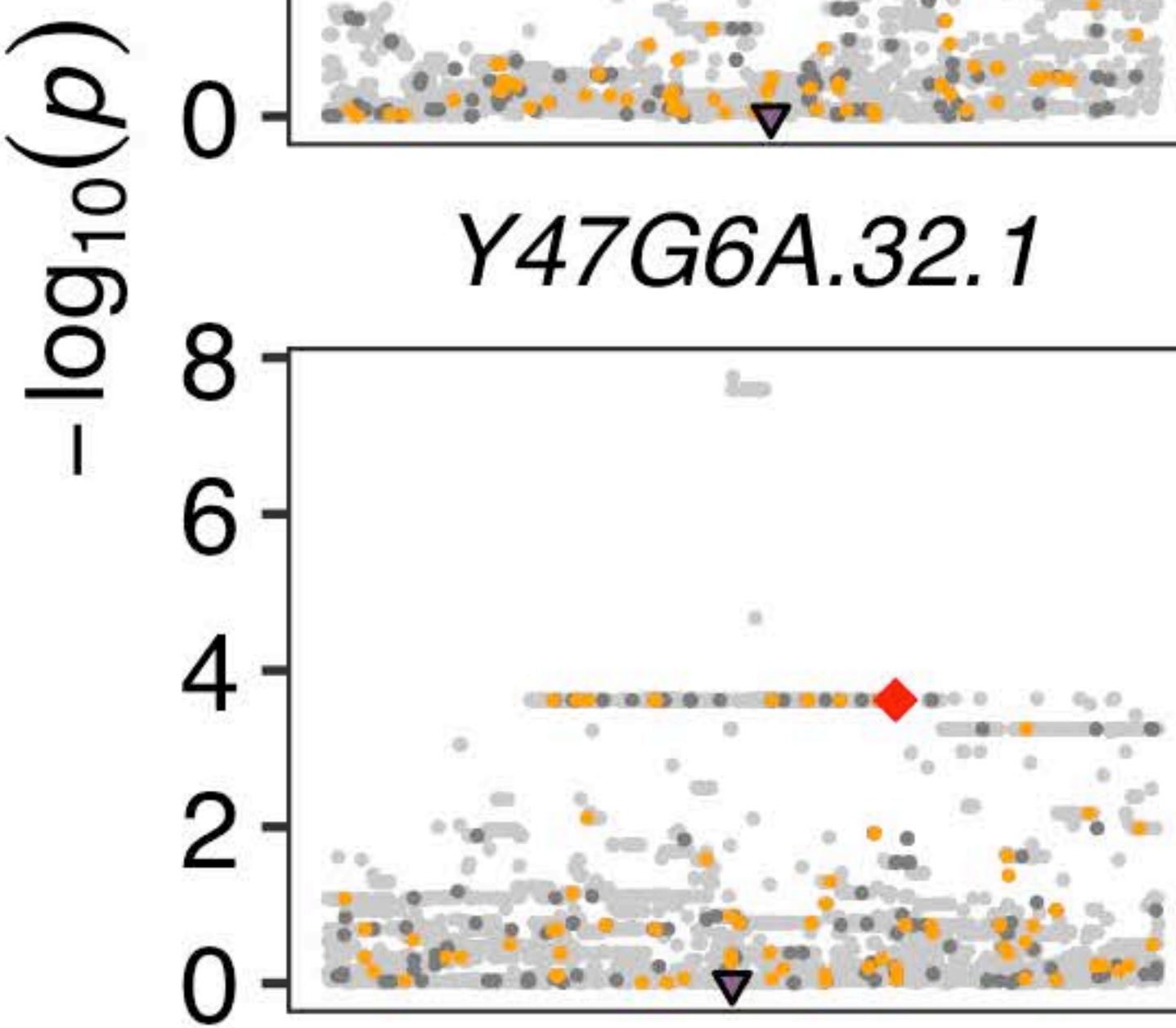
R04B5.5.1



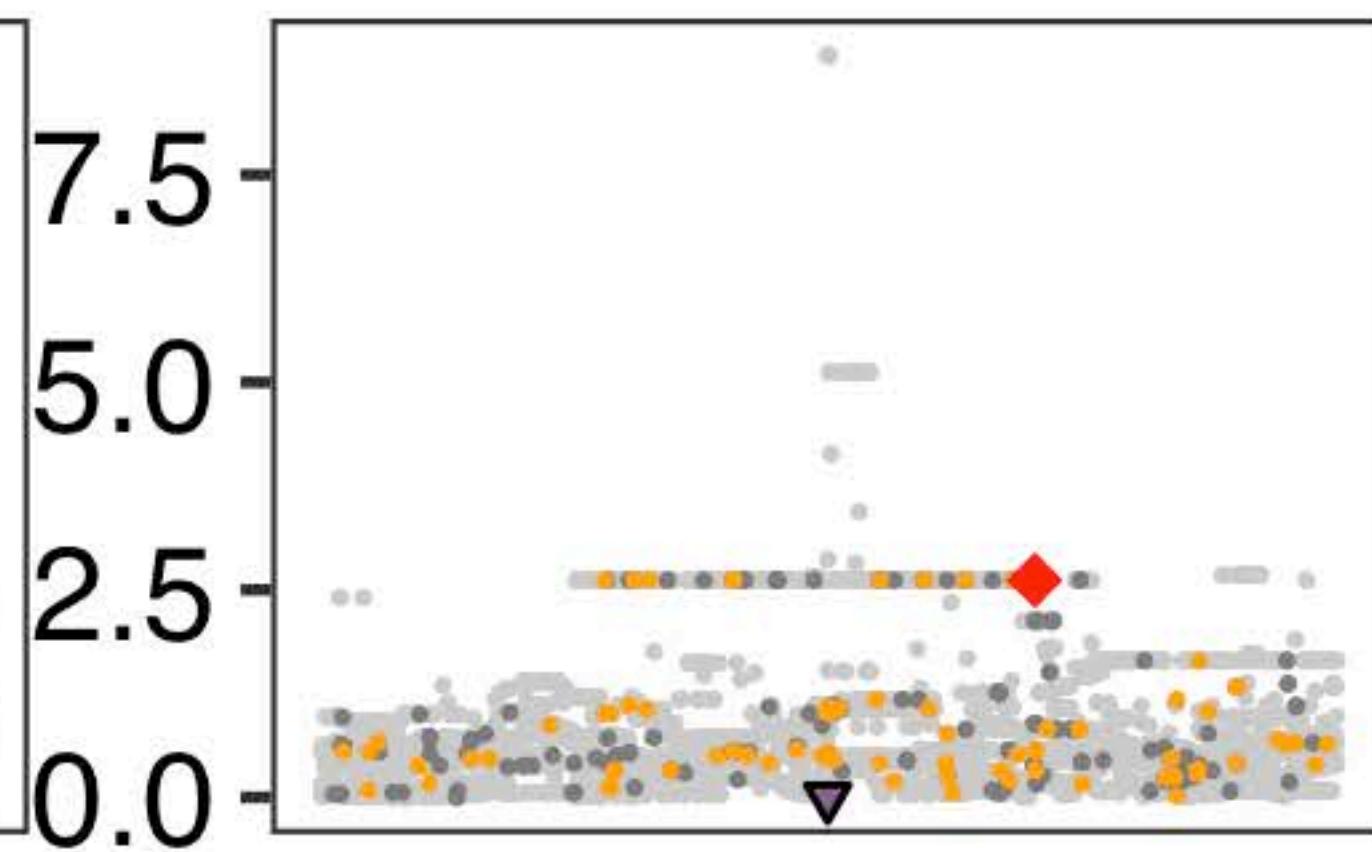
W04D2.3a.1



Y47G6A.32.1



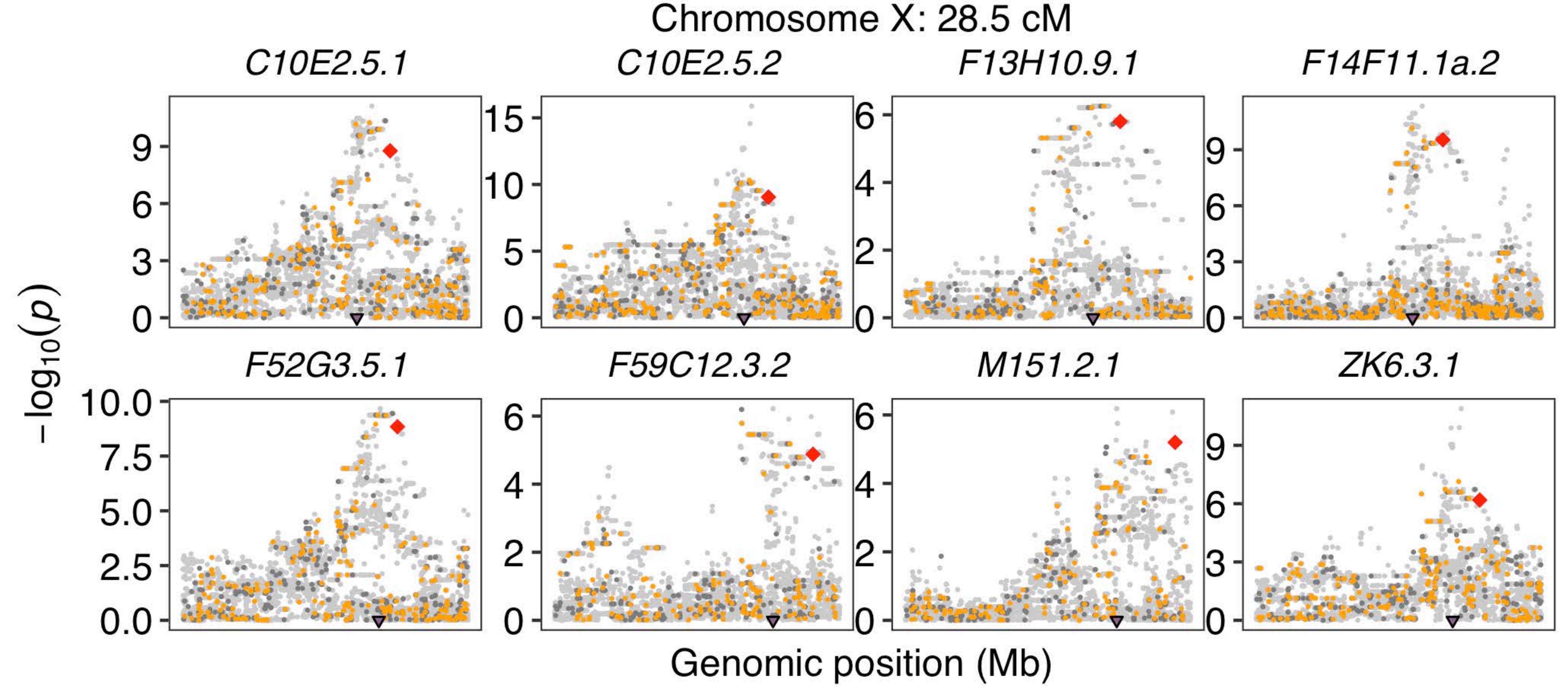
Y53F4B.22a.2



Genomic position (Mb)

Candidate genes

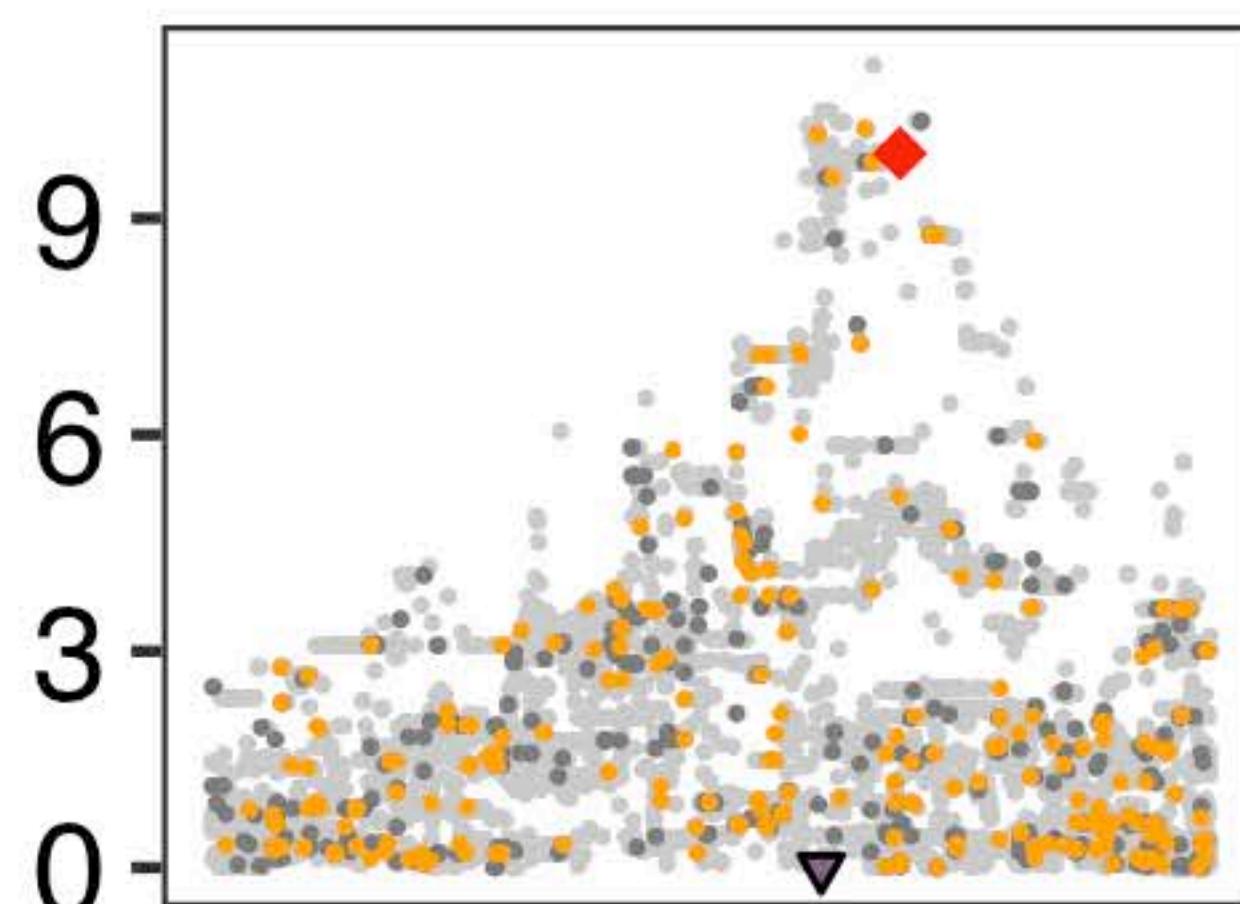
◆ *sprp-4*



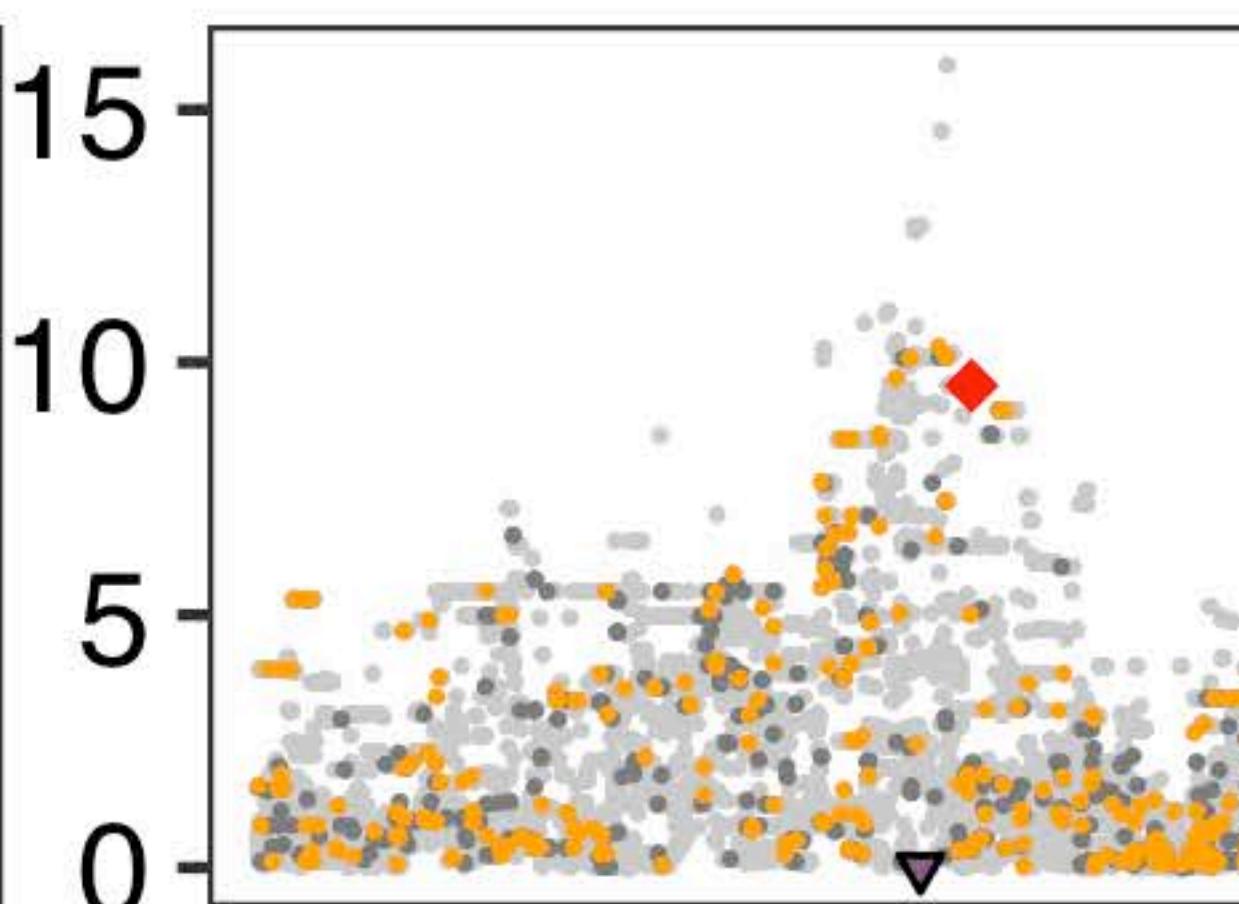
Candidate genes \diamond *gei-3*

Chromosome X: 28.5 cM

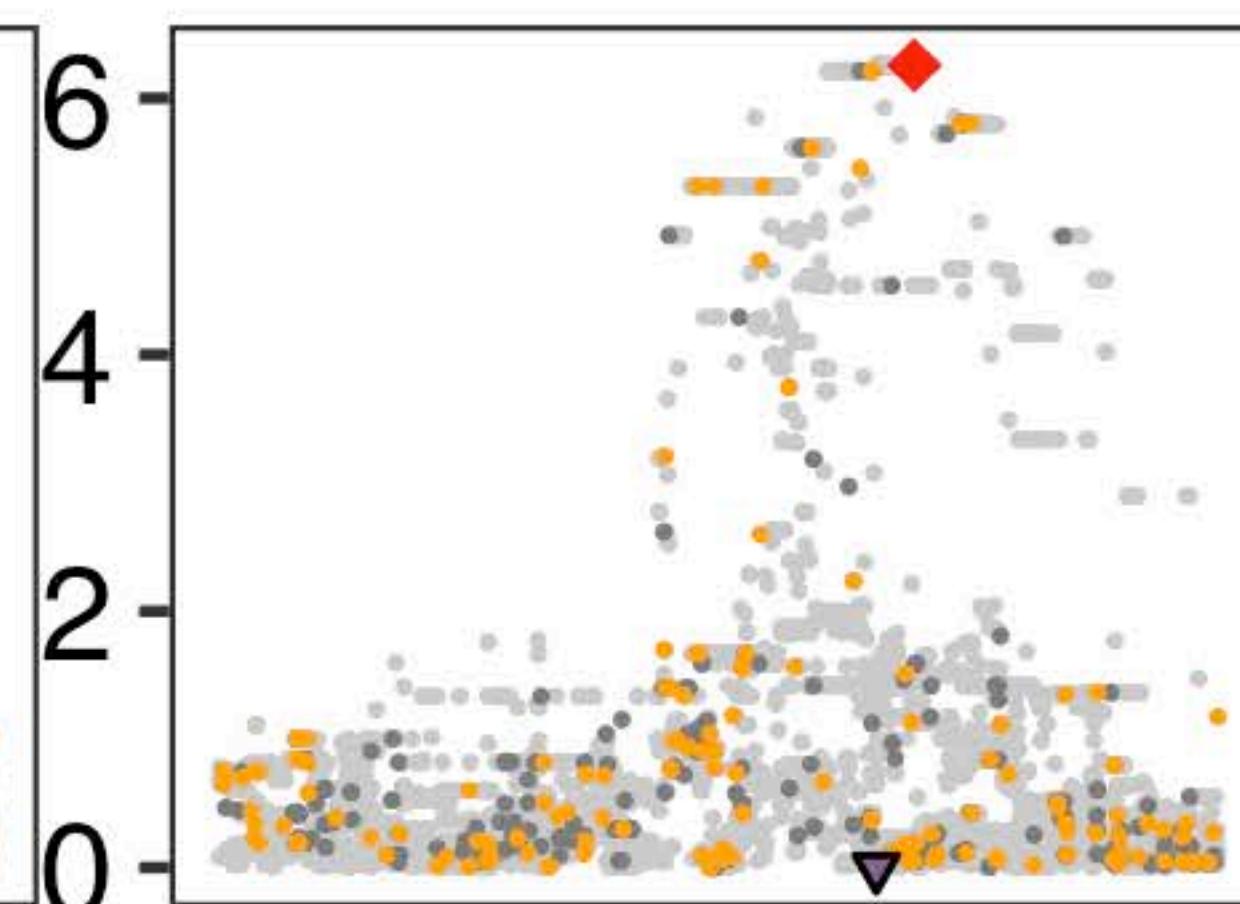
C10E2.5.1



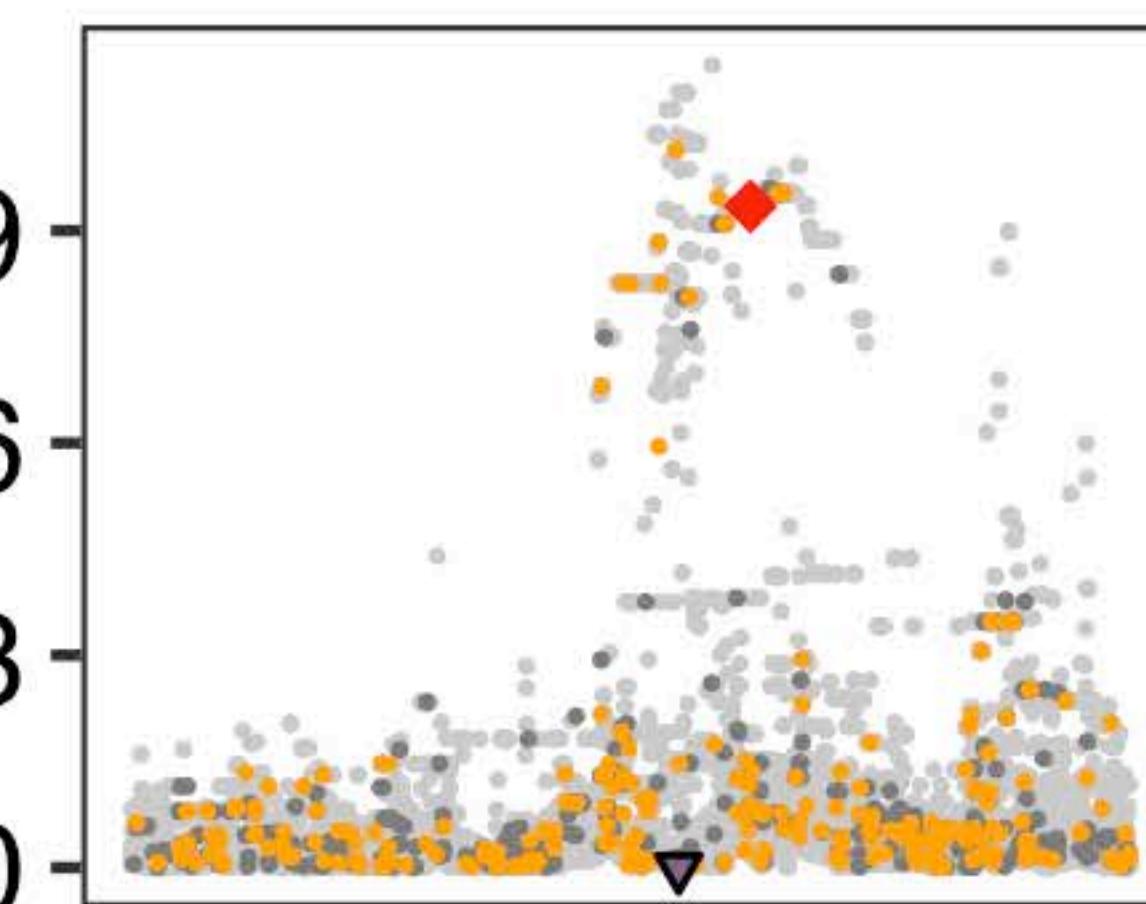
C10E2.5.2



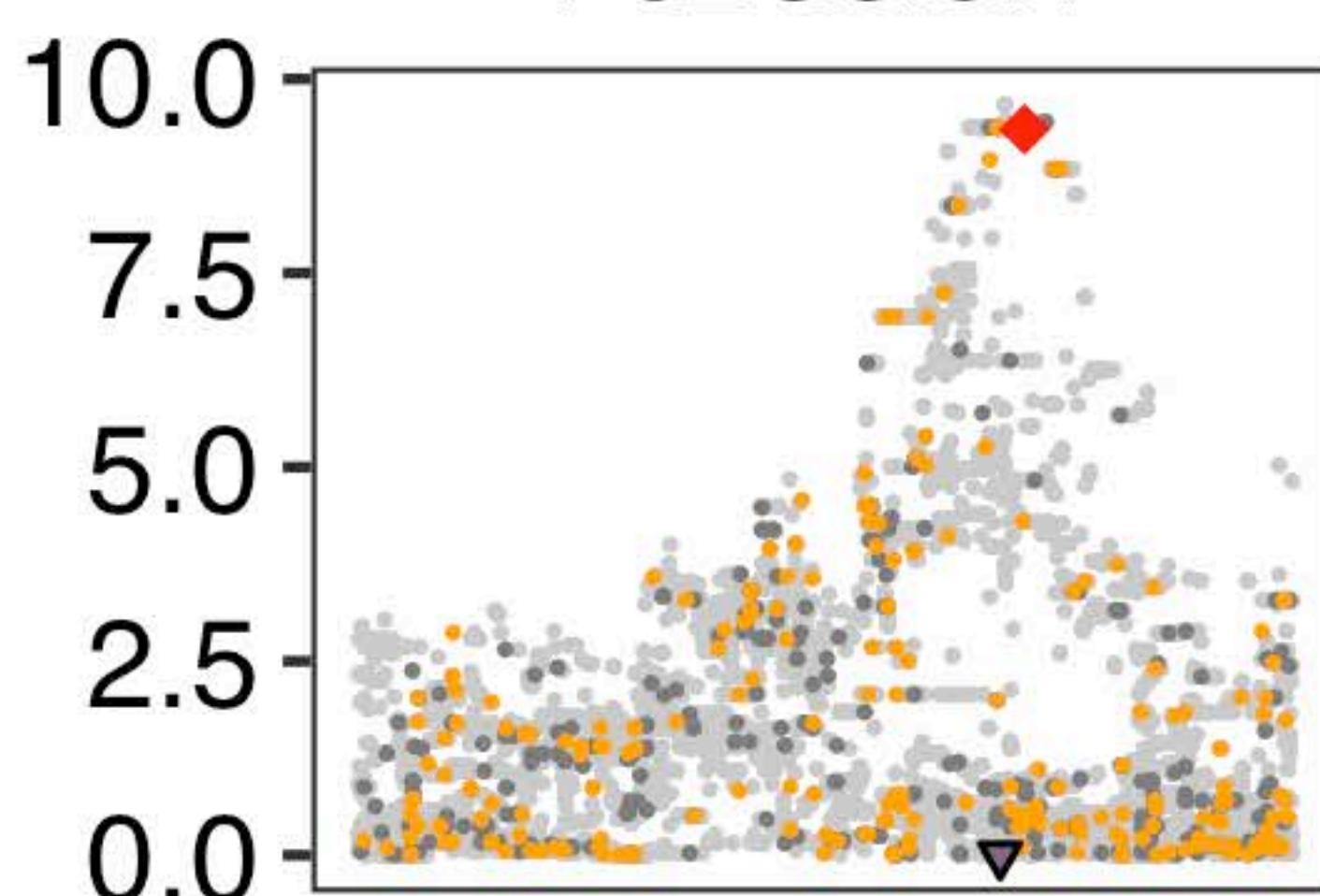
F13H10.9.1



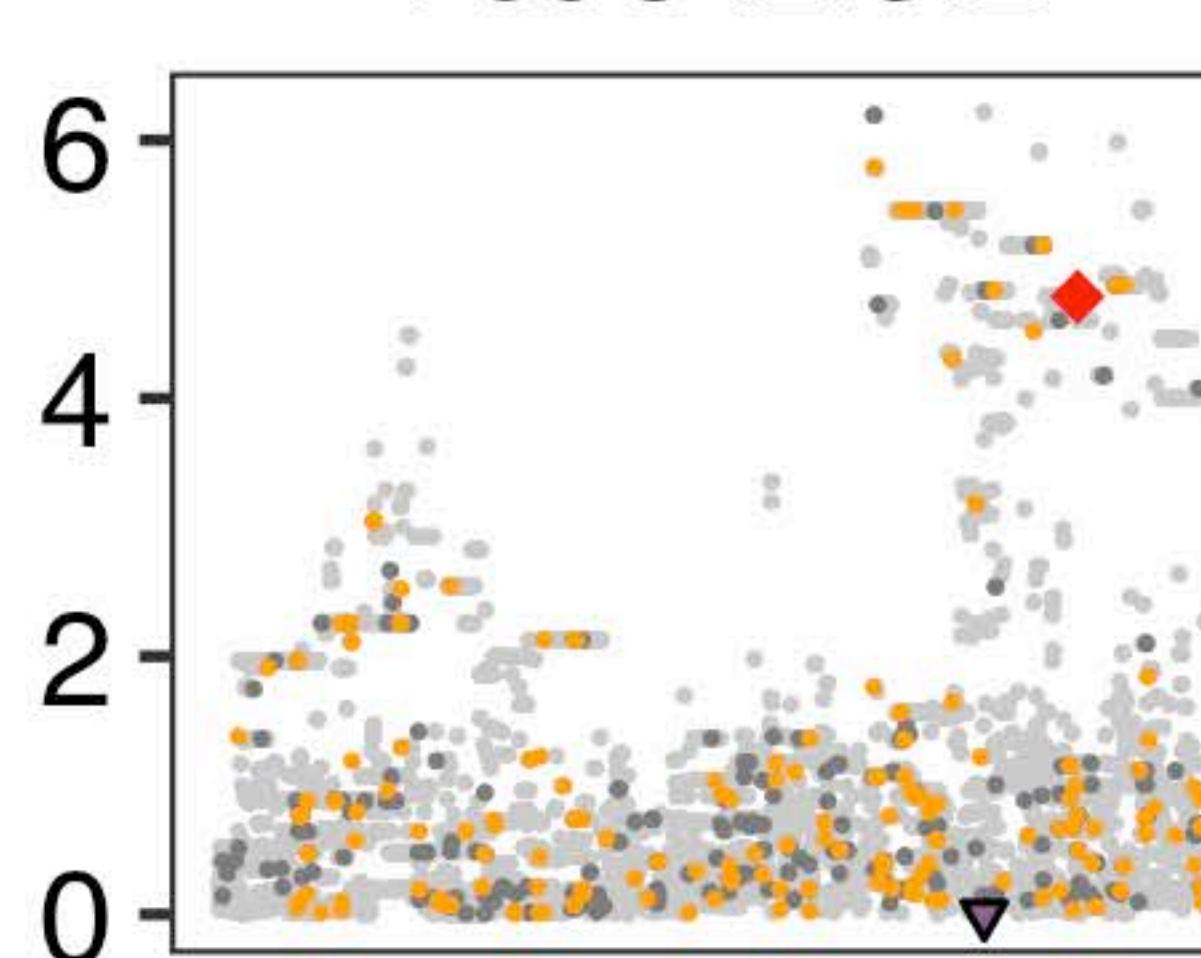
F14F11.1a.2



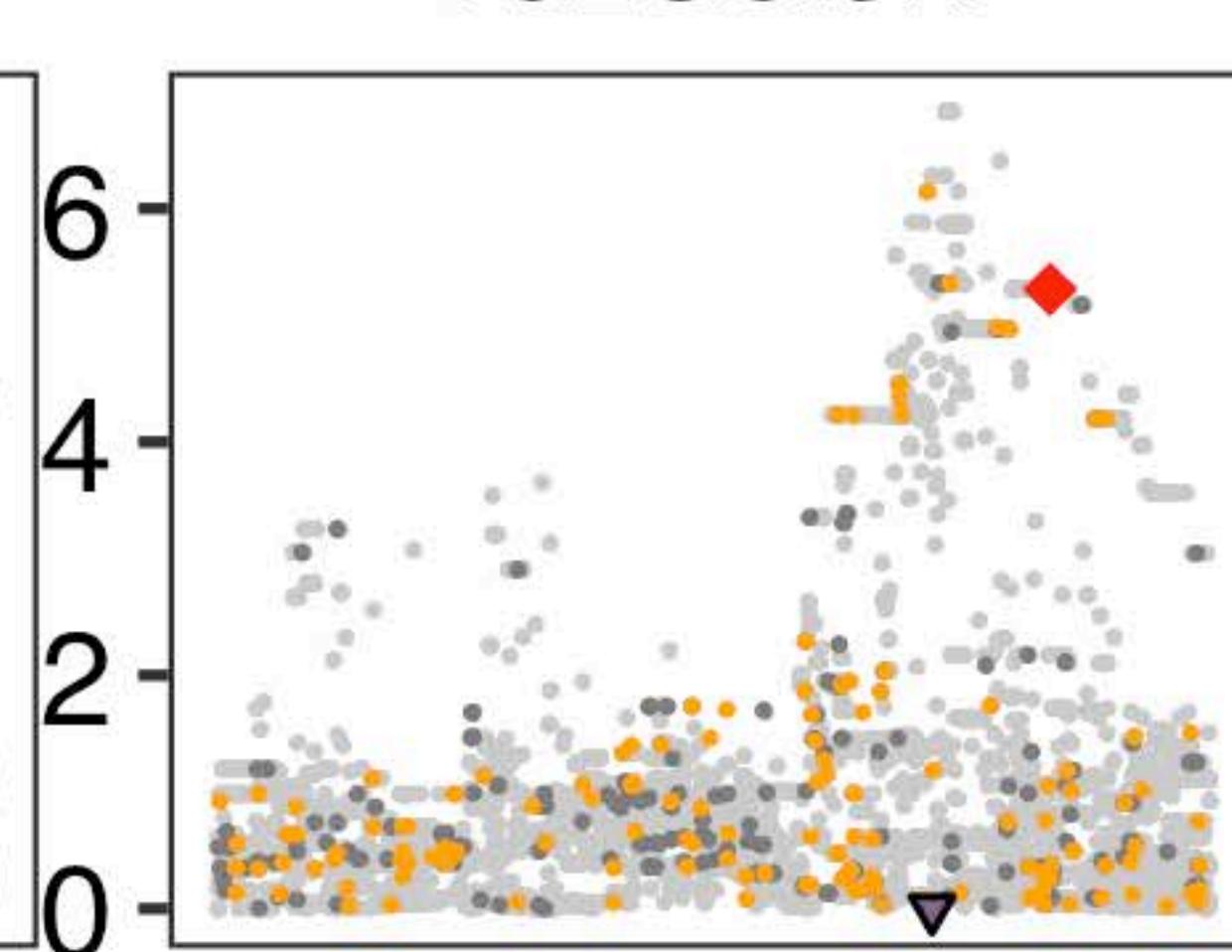
F52G3.5.1



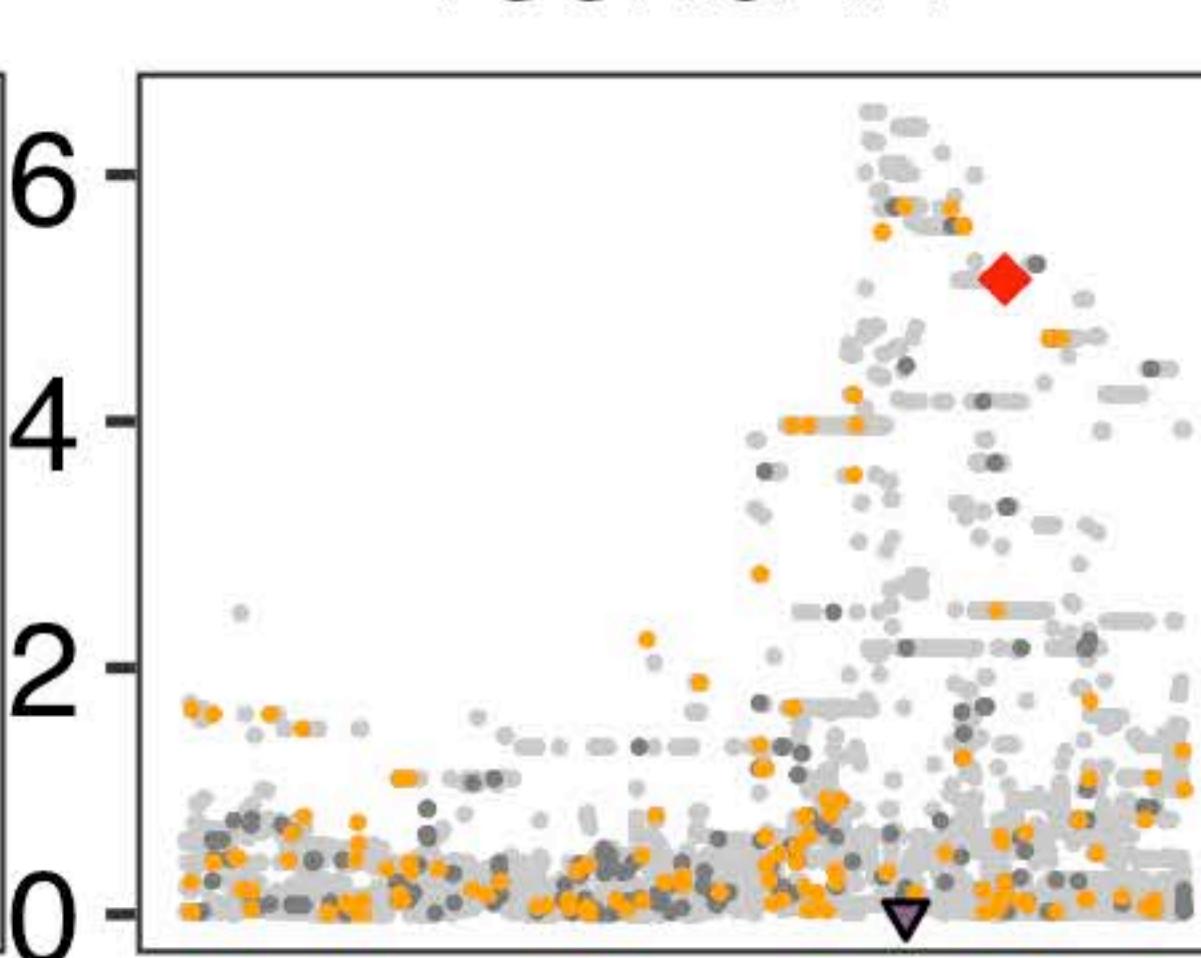
F59C12.3.2



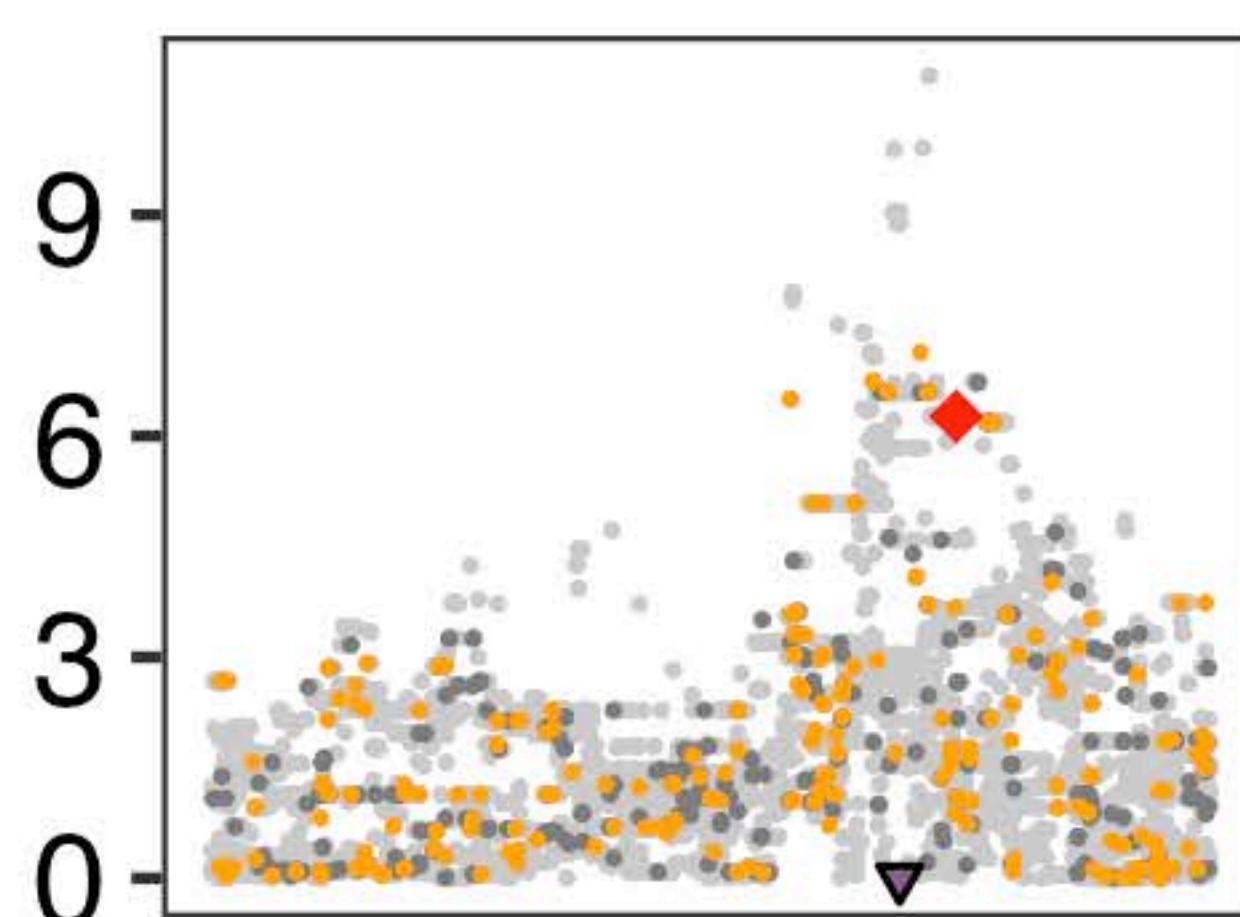
T02G5.3.1



Y38H6A.4



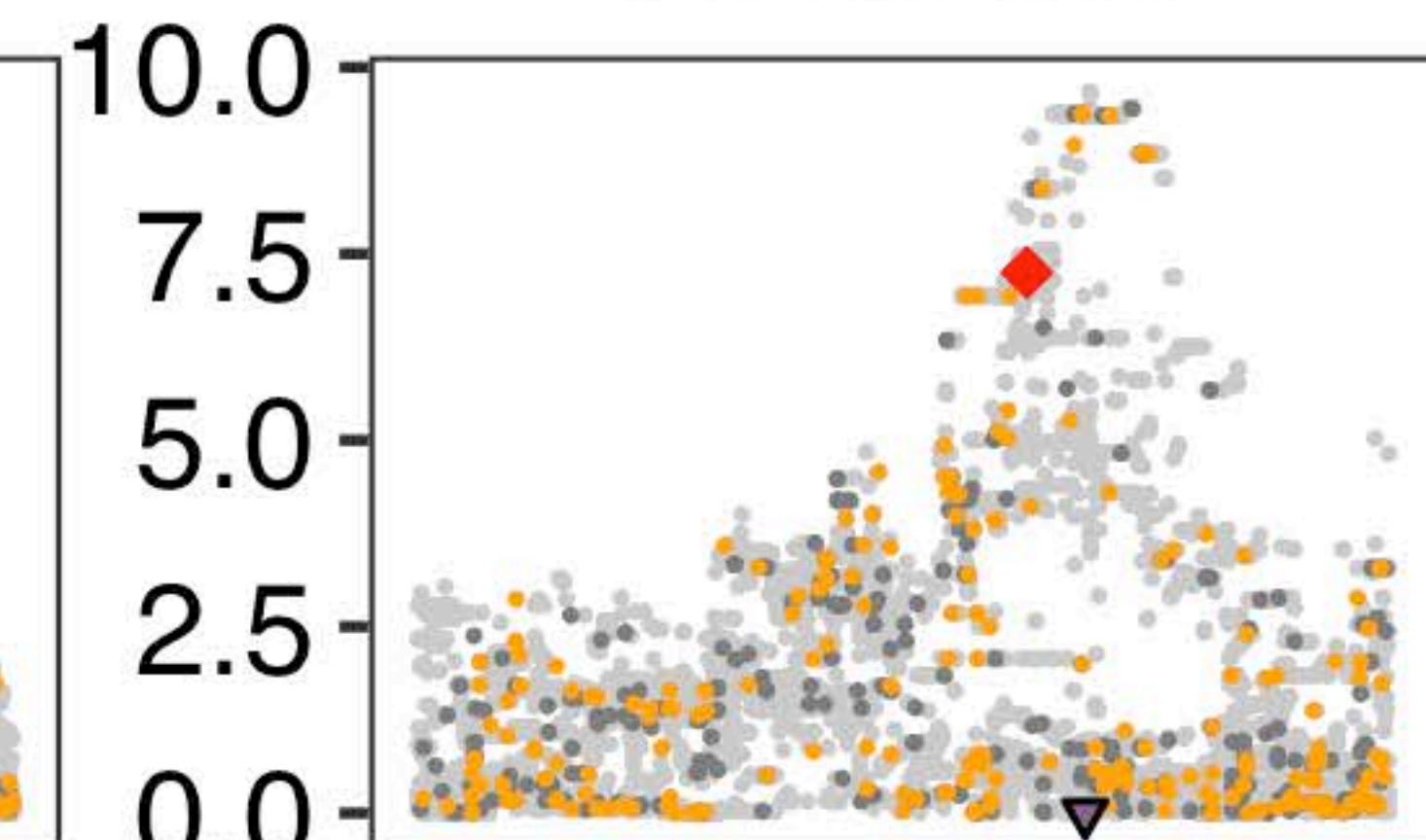
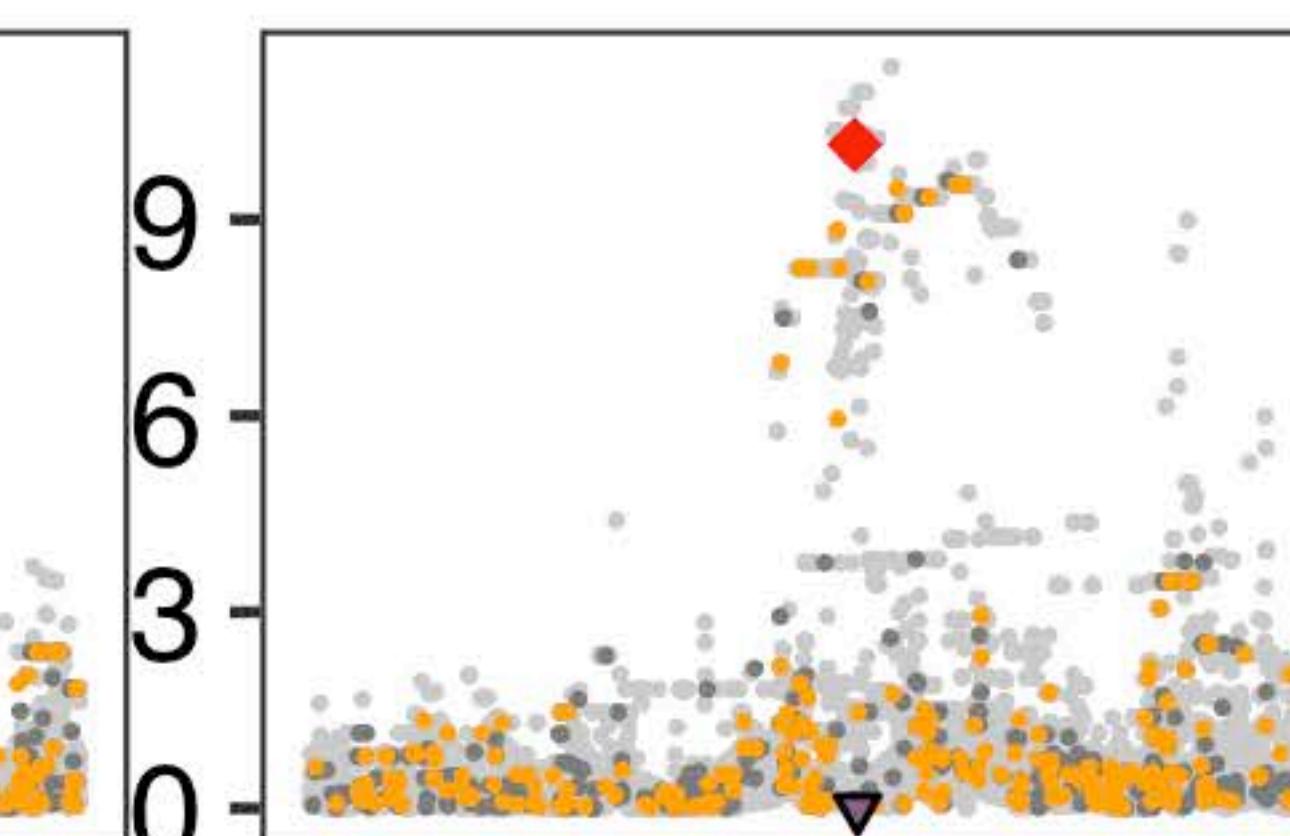
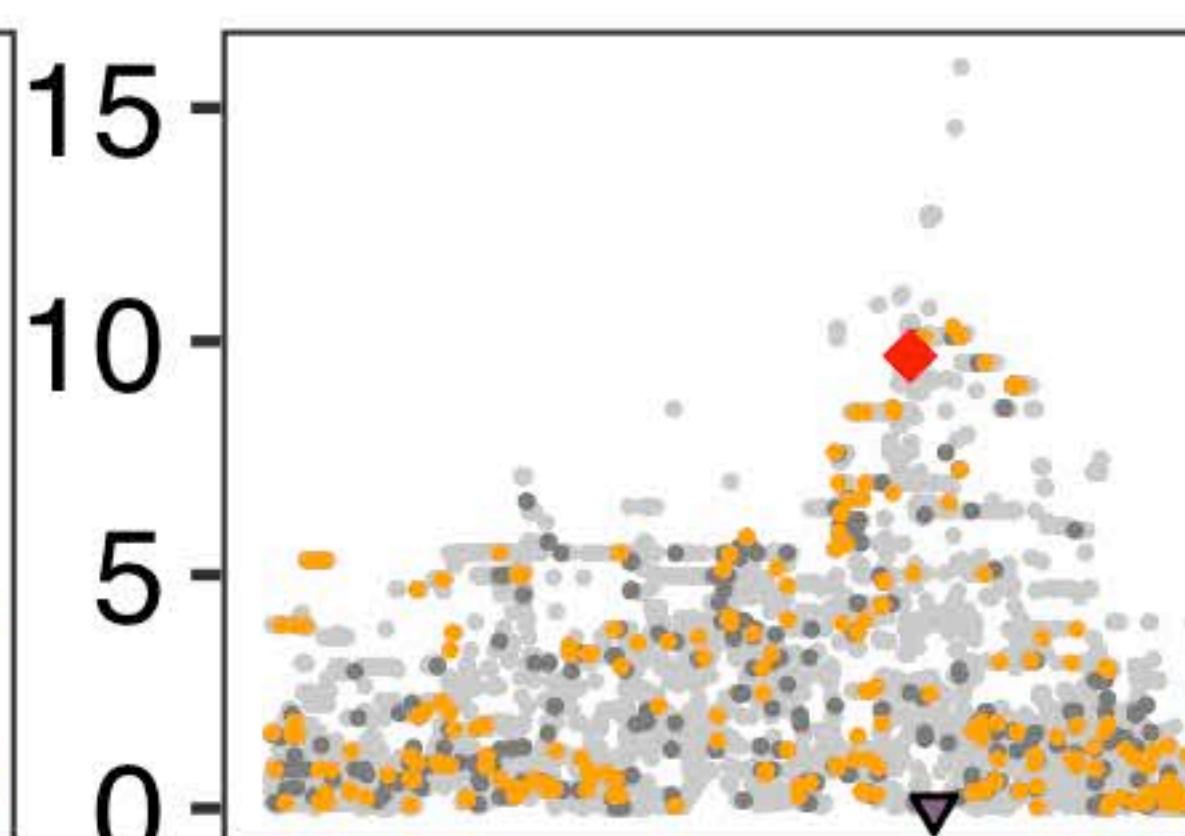
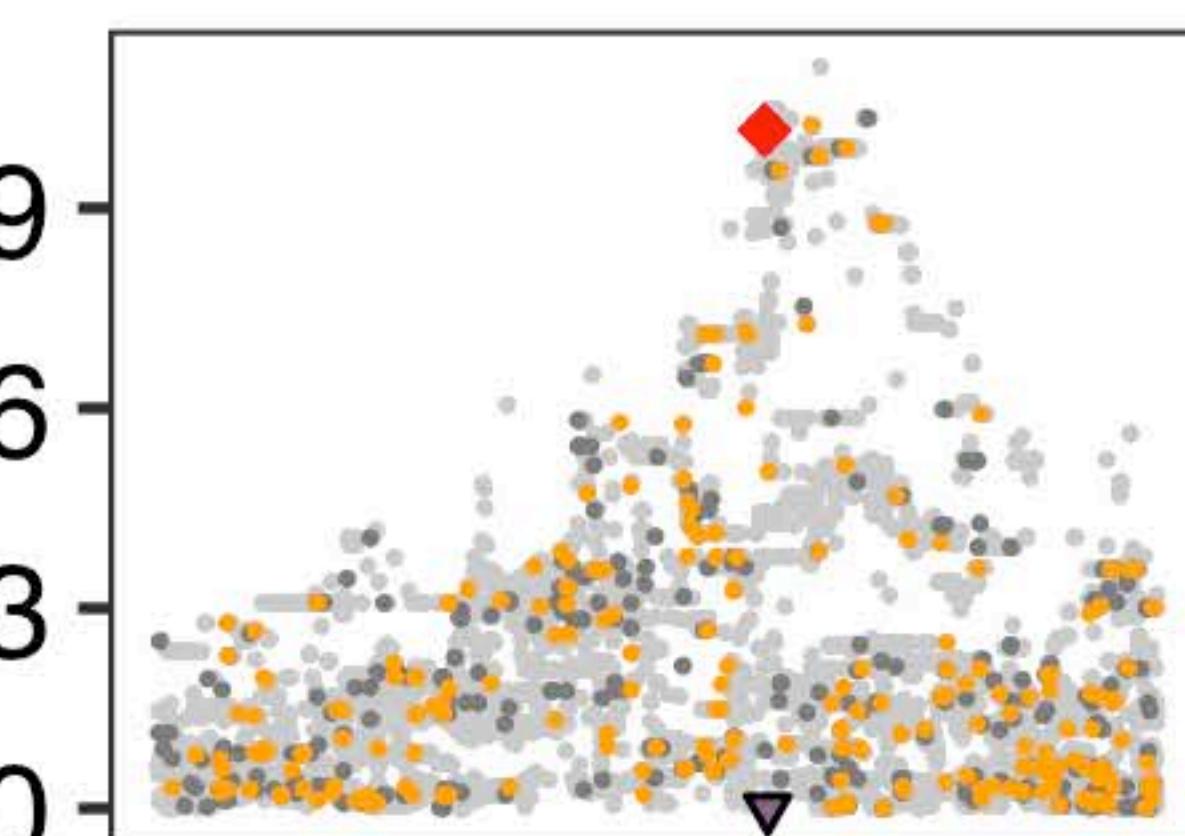
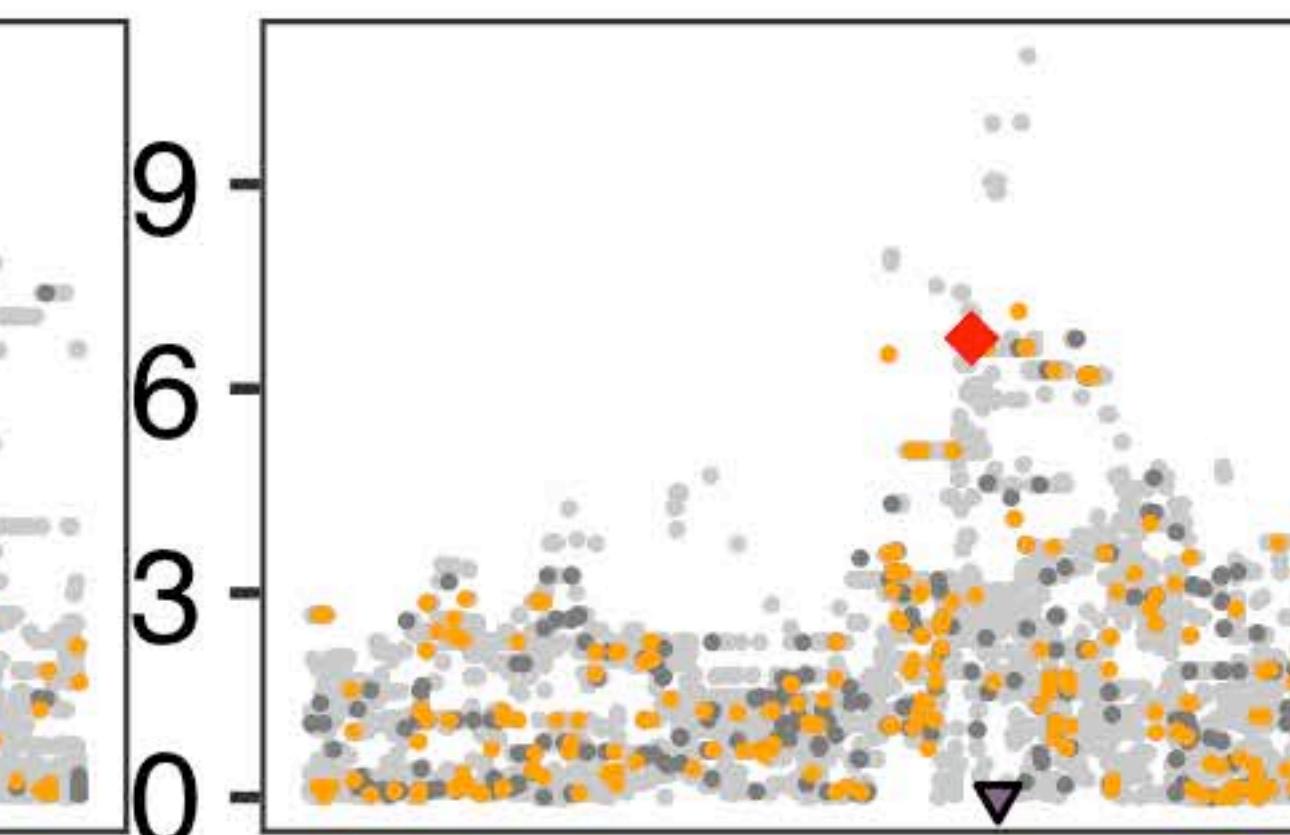
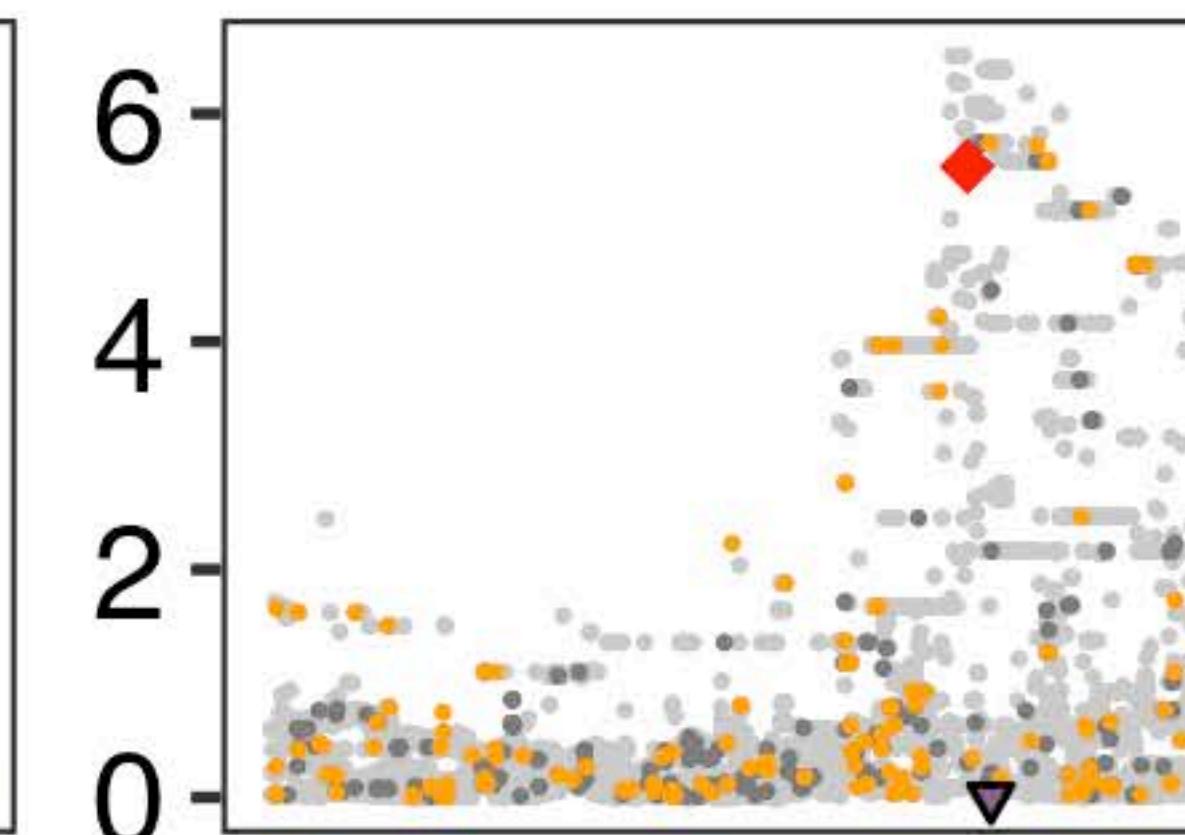
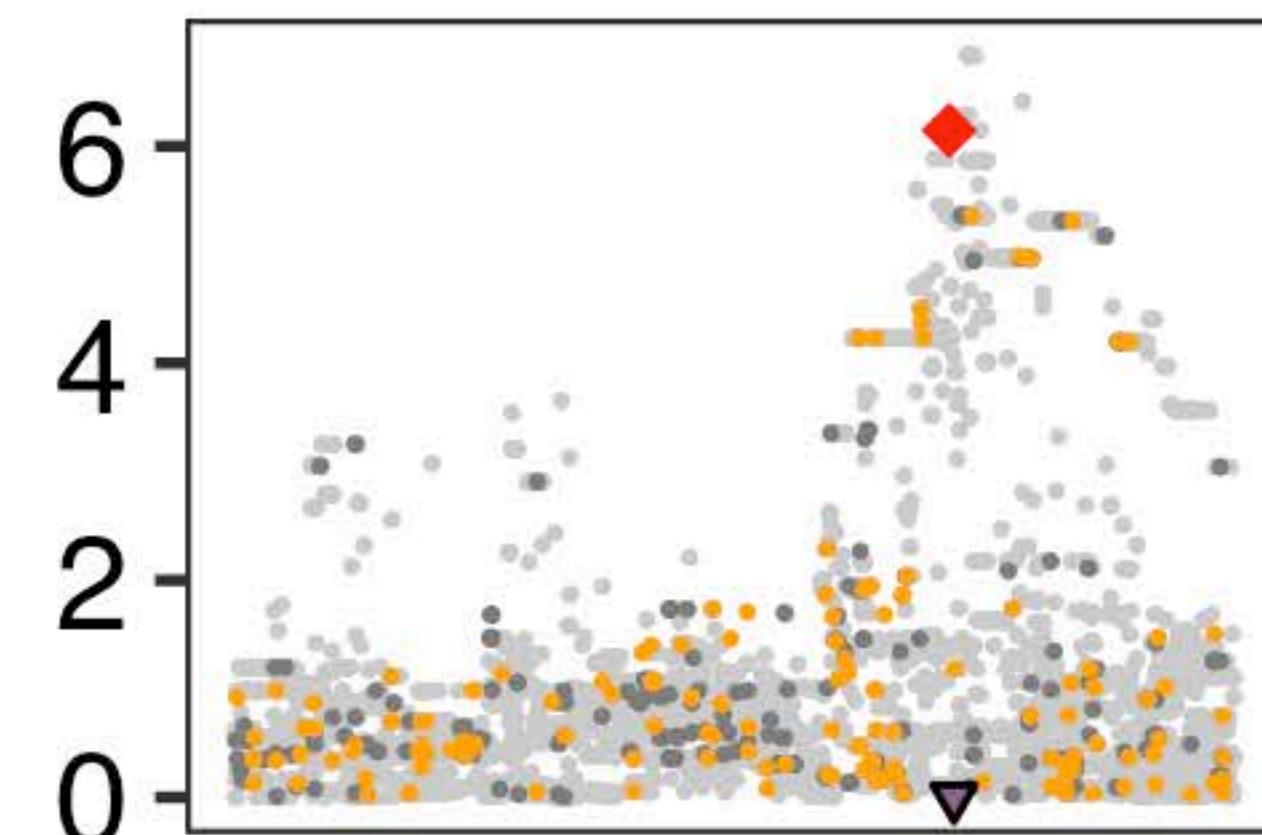
ZK6.3.1



Genomic position (Mb)

Candidate genes ◆ *nhr-214*

Chromosome X: 28.5 cM

*C10E2.5.1**C10E2.5.2**F14F11.1a.2**F52G3.5.1* $-\log_{10}(p)$ *T02G5.3.1**Y38H6A.4**ZK6.3.1*

Genomic position (Mb)

Candidate genes *odr-7*

Chromosome X: 38 cM

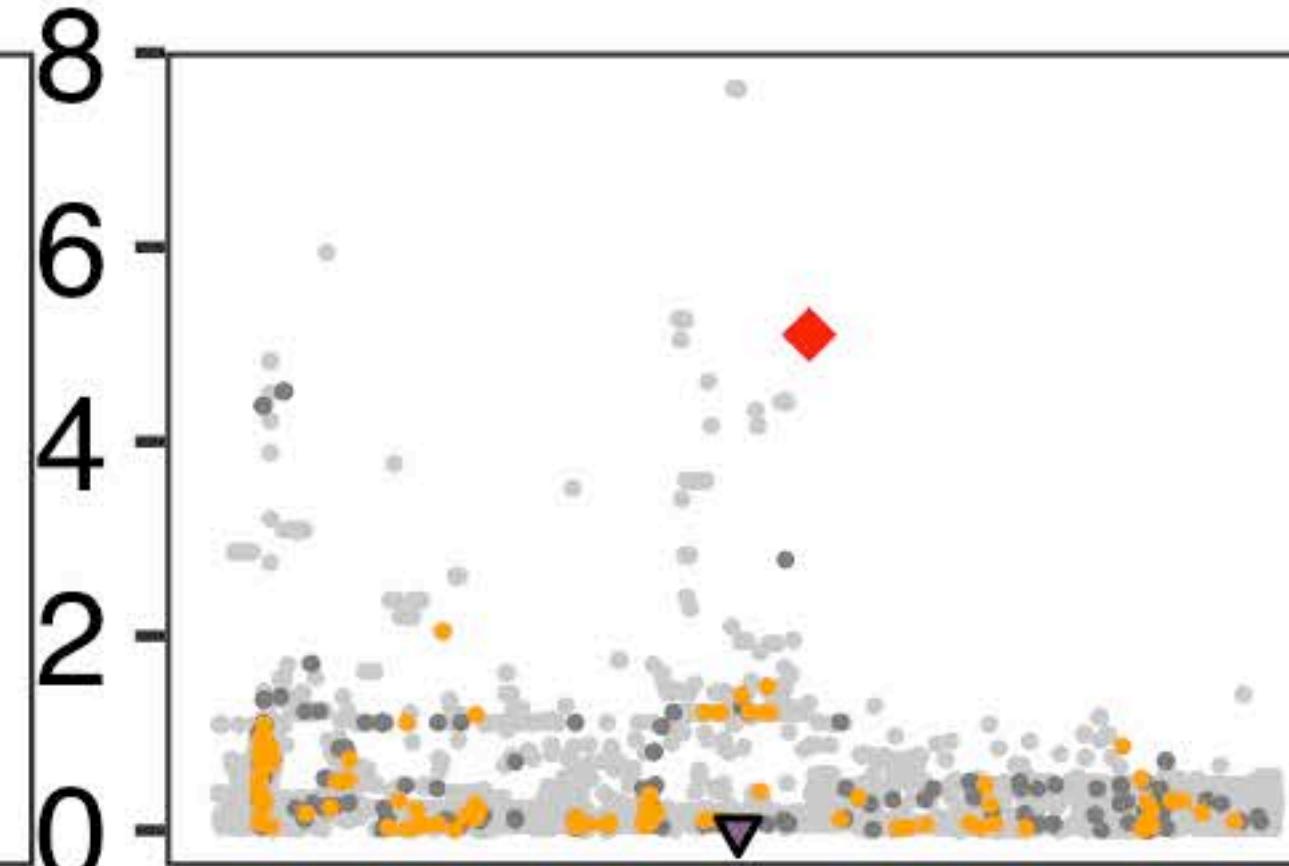
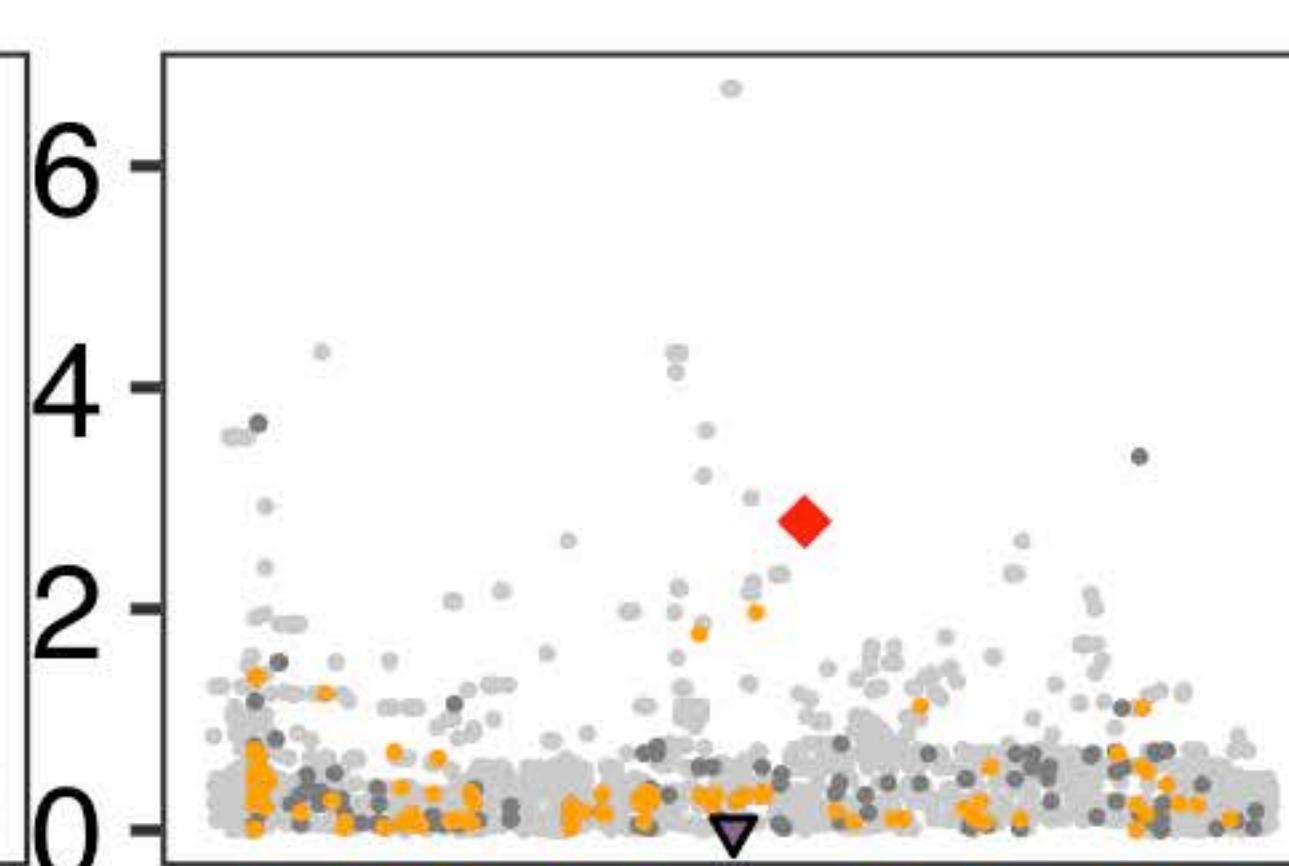
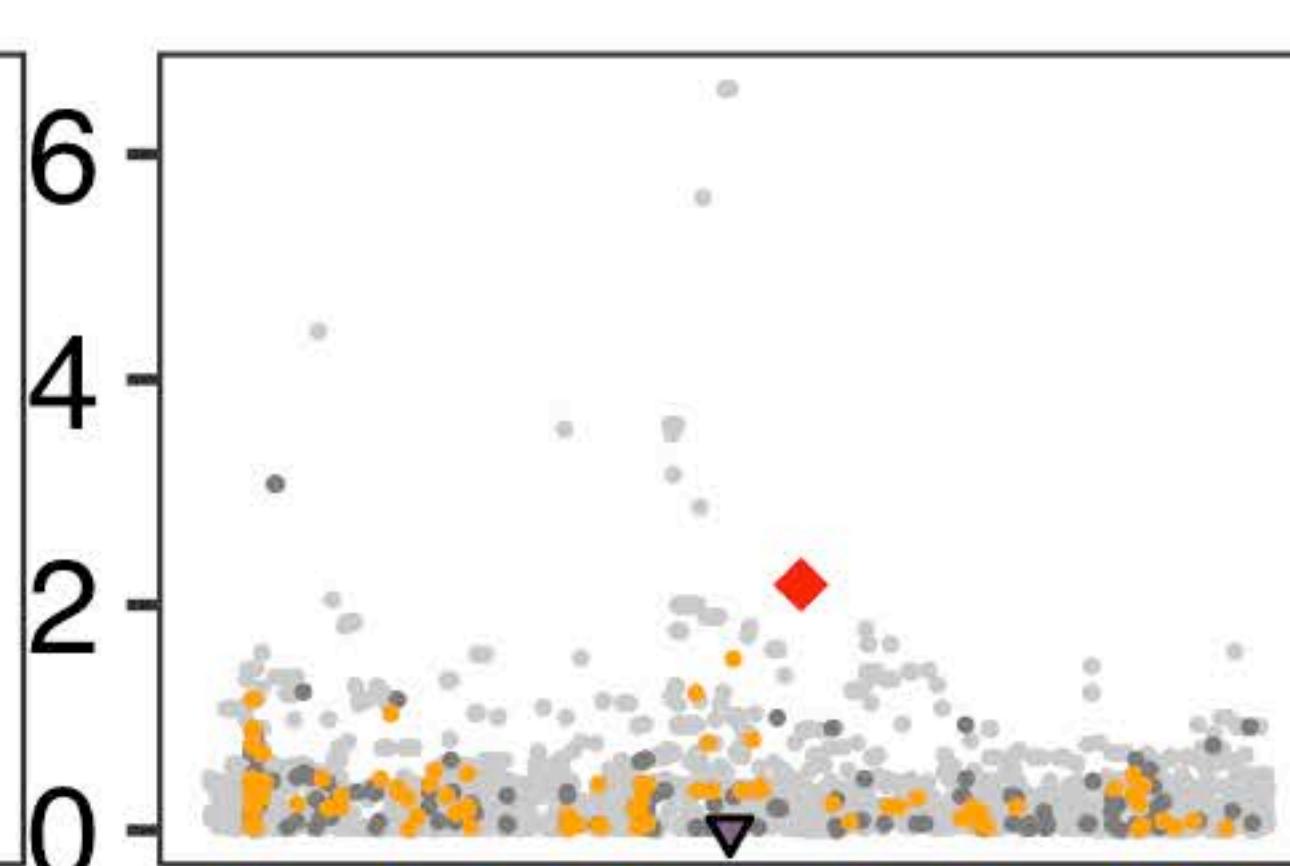
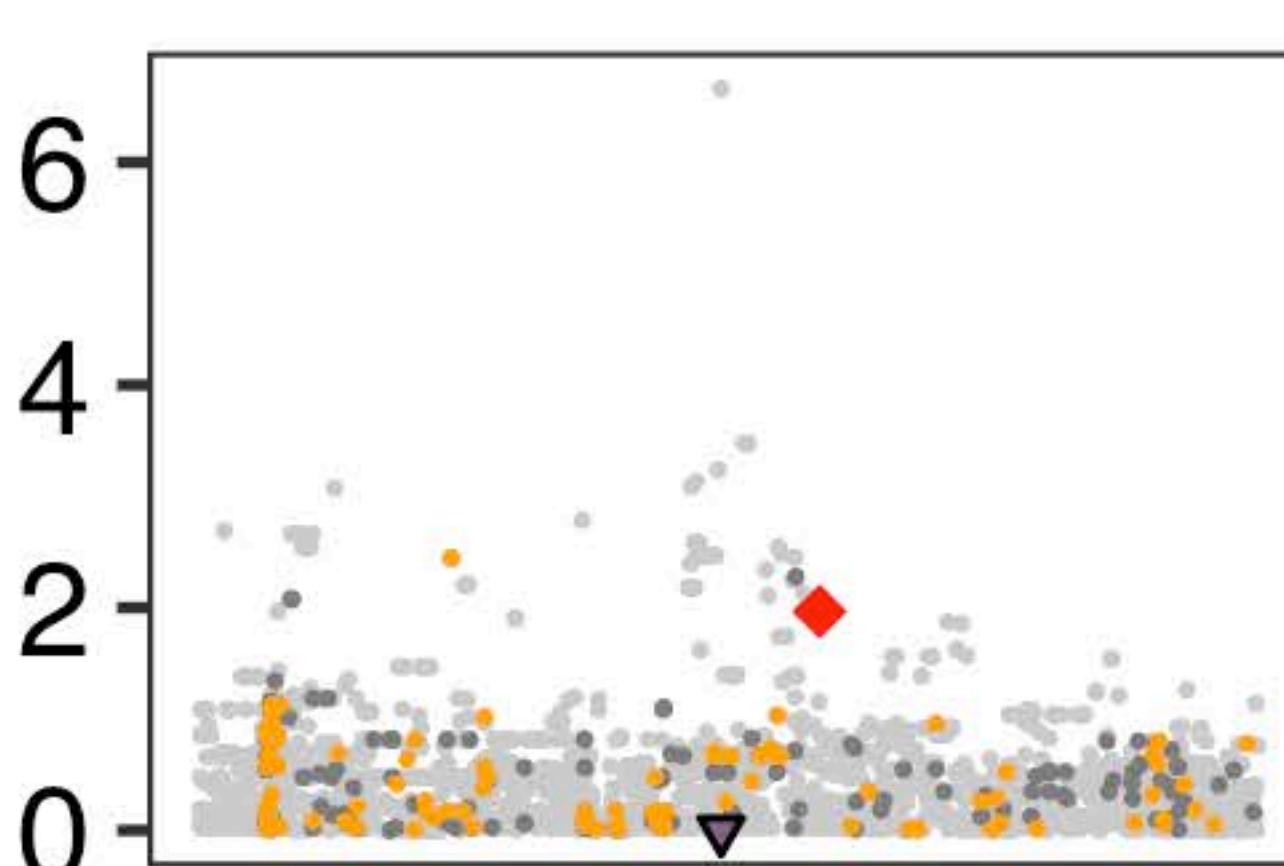
C44B7.10.2

C45G9.6a.2

F52D1.3c.1

Y39A1A.9.1

$-\log_{10}(p)$



Y54G11B.1.1

ZK180.5c.1

Genomic position (Mb)

Candidate genes

◆ *ztf-14*