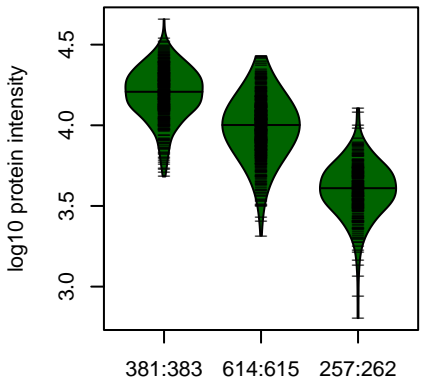
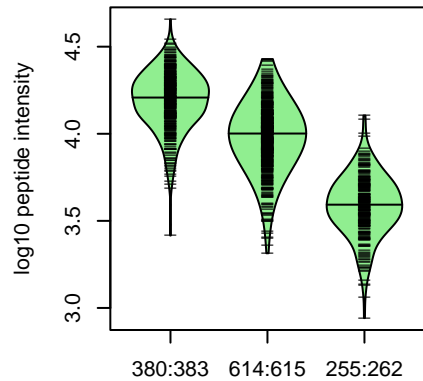
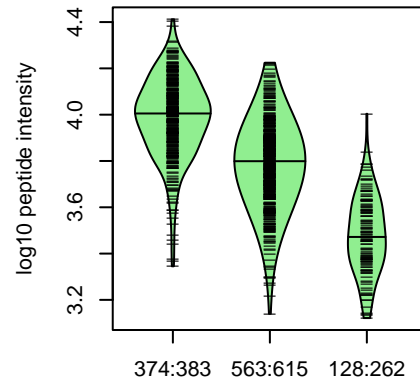


GALC [cis]

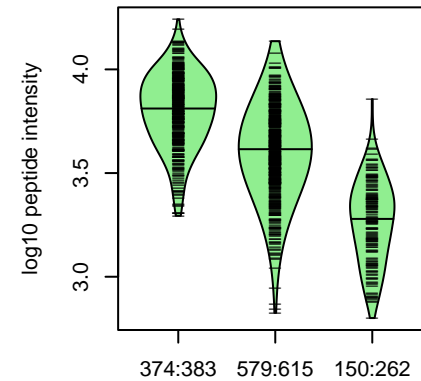
14:88393918:A:C_C
 $p = 1.1e-205$, $\beta = -1.02$, $N = 1252$

SLWTDIPVNFPK pc2

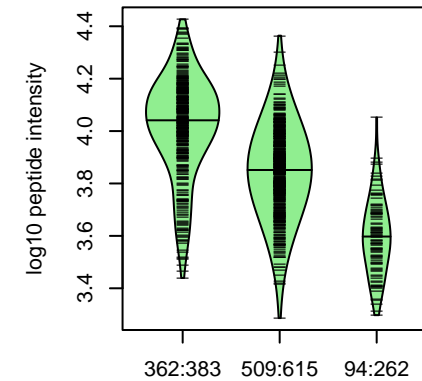
14:88393918:A:C_C
 $p = 1.3e-199$, $\beta = -1.01$, $N = 1249$

GYEWWLMK pc2

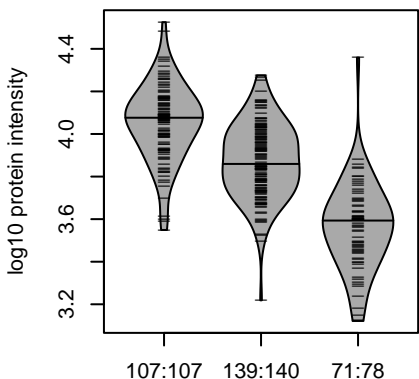
14:88393918:A:C_C
 $p = 8.8e-121$, $\beta = -0.975$, $N = 1065$

GSFSEIPELQVWYTK pc2

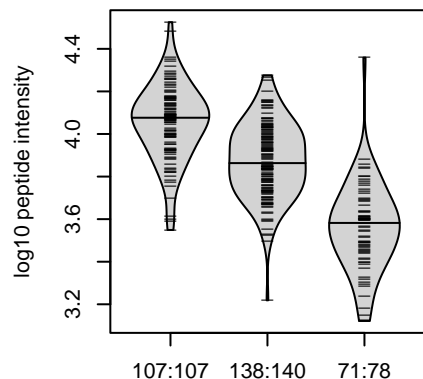
14:88393918:A:C_C
 $p = 7.6e-112$, $\beta = -0.916$, $N = 1103$

SQFPSTYK pc2

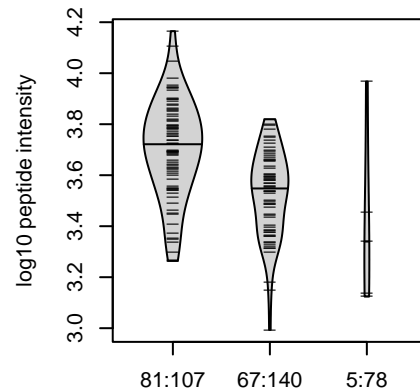
14:88393918:A:C_C
 $p = 1.6e-84$, $\beta = -0.902$, $N = 965$

P54803 NP5

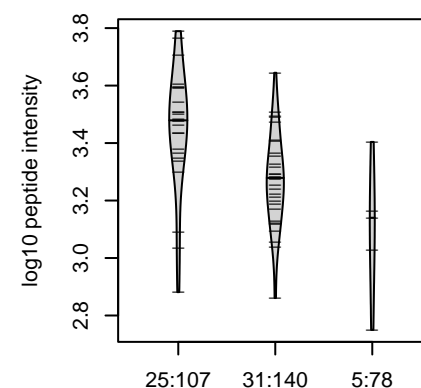
rs380142
 $p = 2.3e-41$, $\beta = -0.889$, $N = 317$

SLWTDIPVNFPK pc2

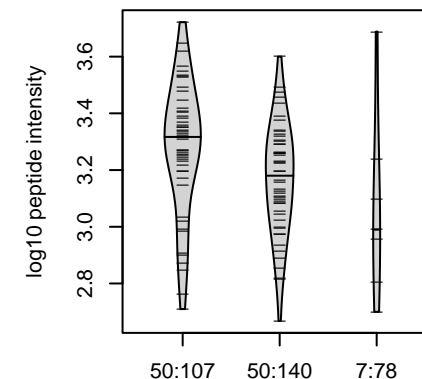
rs380142
 $p = 1.1e-40$, $\beta = -0.874$, $N = 316$

GSFSEIPELQVWYTK pc2

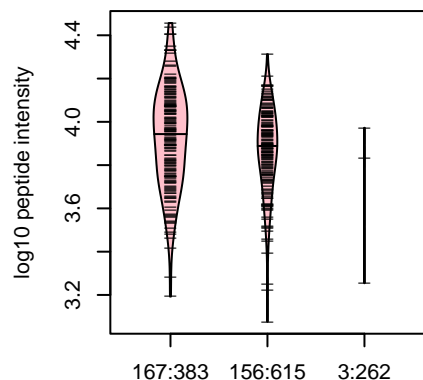
rs380142
 $p = 5.1e-09$, $\beta = -0.78$, $N = 153$

CDVYIETPDTGGVFIAGR pc2

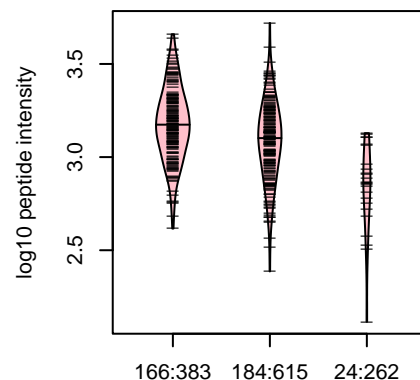
rs380142
 $p = 6e-05$, $\beta = -0.745$, $N = 61$

VTGDLAGWIIYALGRVEVTAK pc3

rs380142
 $p = 0.0087$, $\beta = -0.399$, $N = 107$

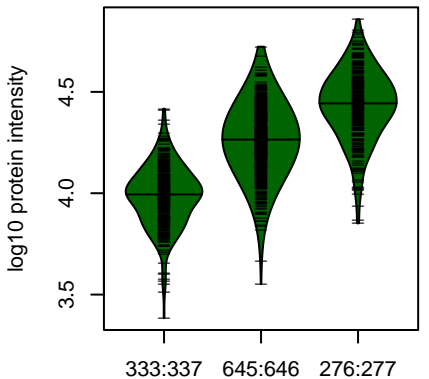
**VVNVIGAHYPGTHSAK pc3
rs34362748 ALT**

14:88393918:A:C_C
 $p = 5.8e-34$, $\text{model} = \text{DOM}$, $N = 326$

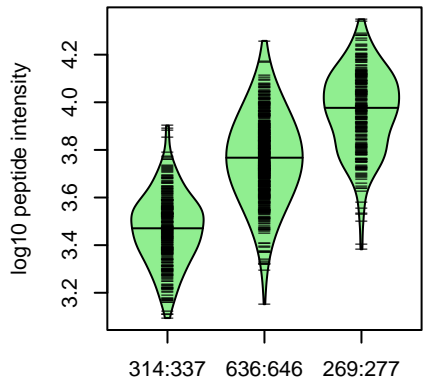
**VVDVIGAHYPGTHSAK pc4
rs34362748 REF**

14:88393918:A:C_C
 $p = 1.6e-18$, $\text{model} = \text{DOM}$, $N = 374$

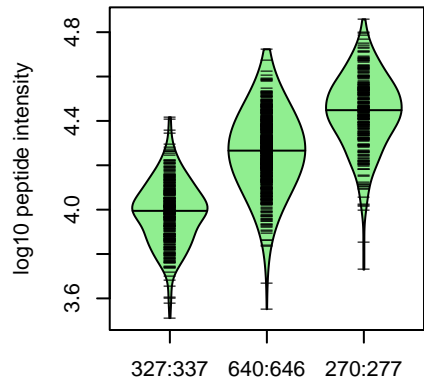
Locus: 1 (Sort: 1)
 Status: Replicated
 80% power: Yes
 SNP: 14:88393918:A:C
 rsID: rs380142
 UniProtID: P54803
 HGNC gene: GALC
 Type: Cis-pQTL

HEG1 [cis]

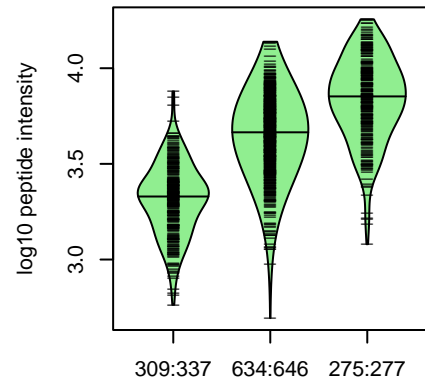
3:124746182:C:A_C
 $p = 4e-179$, $\beta = 0.99$, $N = 1254$

SGTASEMGTER pc2

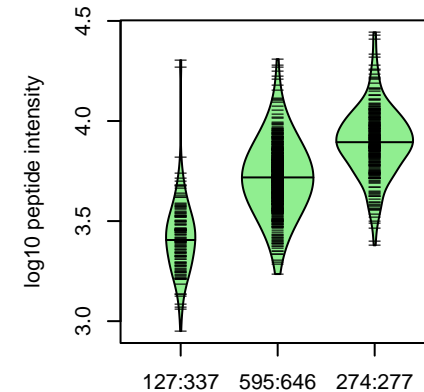
3:124746182:C:A_C
 $p = 4e-190$, $\beta = 1.03$, $N = 1219$

EGVMVQTSGK pc2

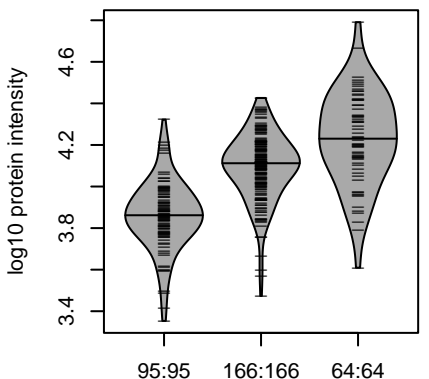
3:124746182:C:A_C
 $p = 2.4e-181$, $\beta = 1$, $N = 1237$

ALSLAPLAGAGLELQLER pc2

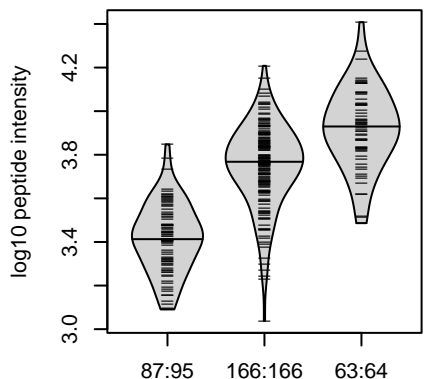
3:124746182:C:A_C
 $p = 3.4e-146$, $\beta = 0.932$, $N = 1218$

TMHVATVFTDGGPR pc3

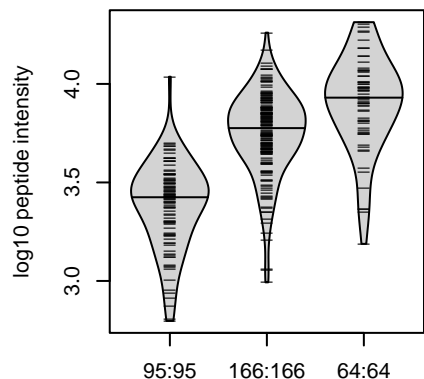
3:124746182:C:A_C
 $p = 8.1e-109$, $\beta = 1.01$, $N = 996$

Q9ULI3 NP2

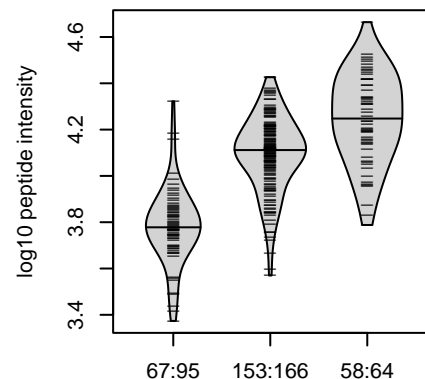
rs2333041
 $p = 3.3e-31$, $\beta = 0.834$, $N = 325$

SGTASEMGTER pc2

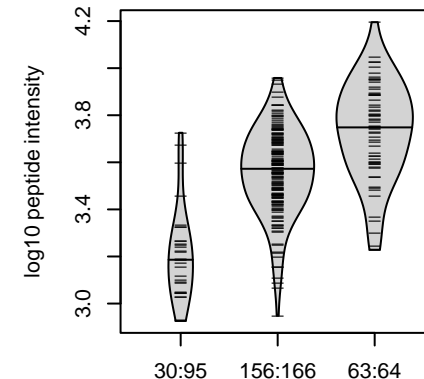
rs2333041
 $p = 1.9e-43$, $\beta = 0.971$, $N = 316$

ALSLAPLAGAGLELQLER pc2

rs2333041
 $p = 1.3e-37$, $\beta = 0.898$, $N = 325$

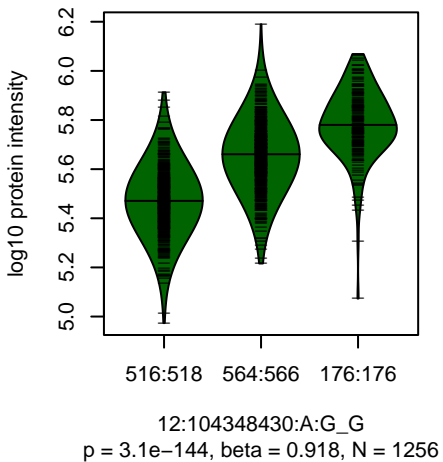
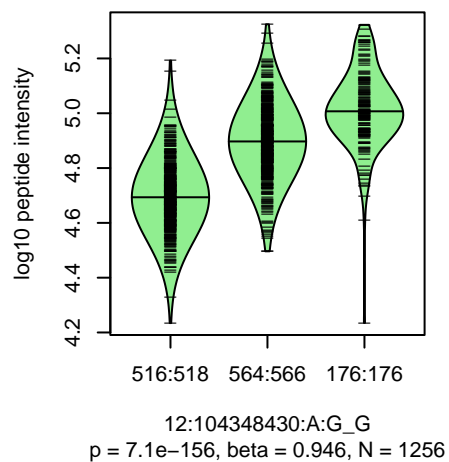
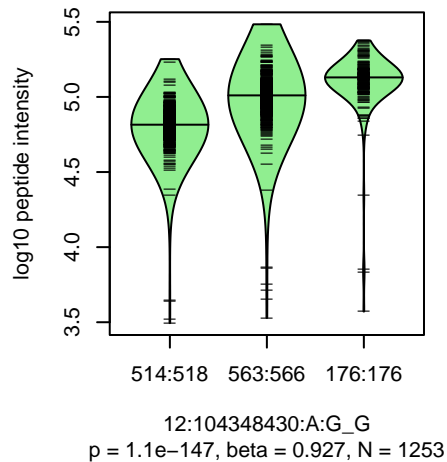
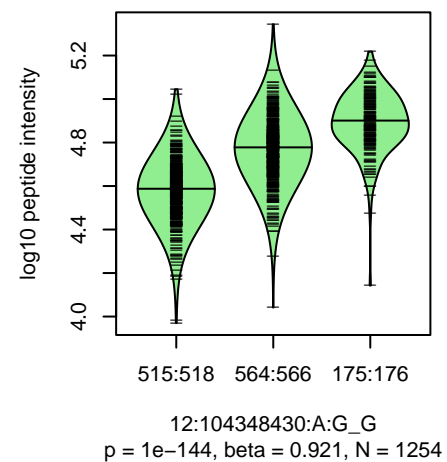
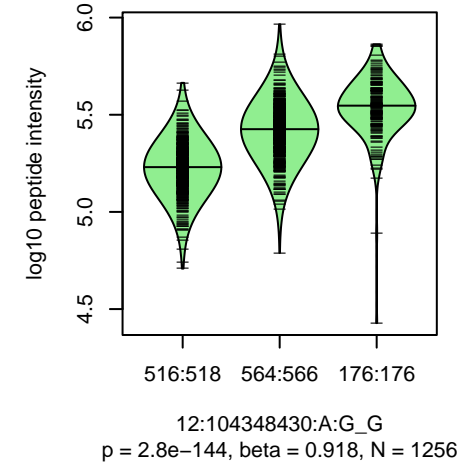
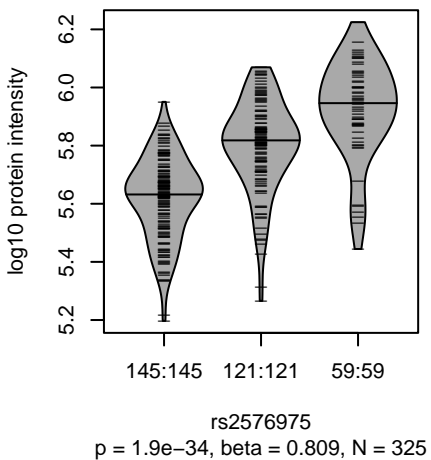
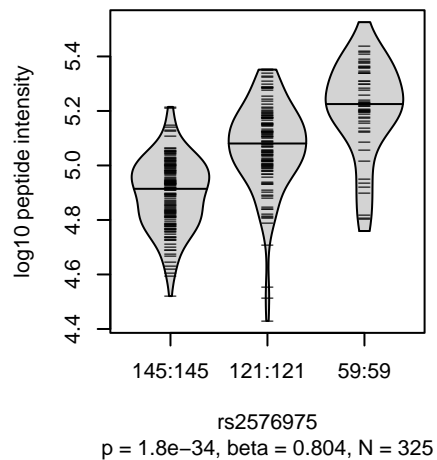
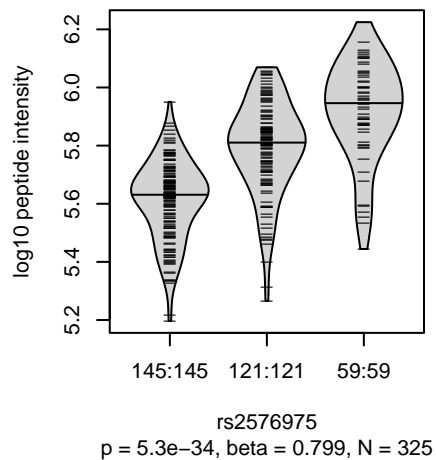
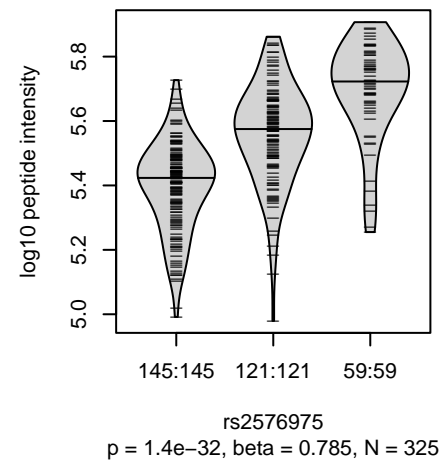
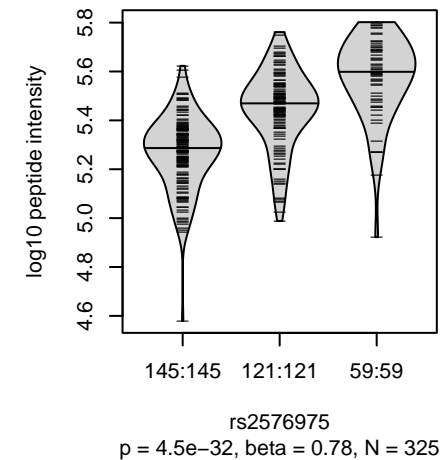
EGVMVQTSGK pc2

rs2333041
 $p = 2.8e-35$, $\beta = 0.959$, $N = 278$

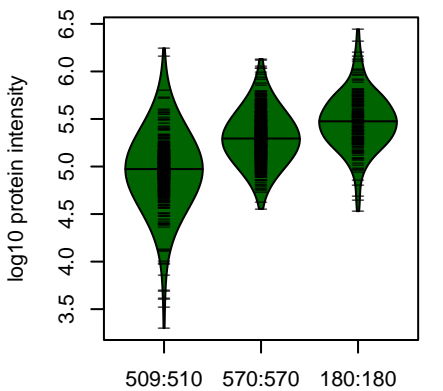
SLTVSLGPVSK pc2

rs2333041
 $p = 6.6e-22$, $\beta = 0.92$, $N = 249$

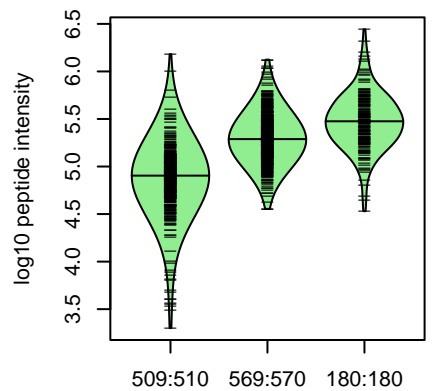
Locus: 2 (Sort: 2)
 Status: Replicated
 80% power: Yes
 SNP: 3:124746182:C:A
 rsID: rs2333041
 UniProtID: Q9ULI3
 HGNC gene: HEG1
 Type: Cis-pQTL

HSP90B1 [cis]**DISTNYYSQK pc2****EVEEDEYK pc2****RVFITDDFHDMMPK pc3****EFEPLLWMK pc2****P14625 NP2****DISTNYYSQK pc2****SILFVPTSAPR pc2****GVVDSDDLPLNVS R pc2****SGYLLPDTK pc2**

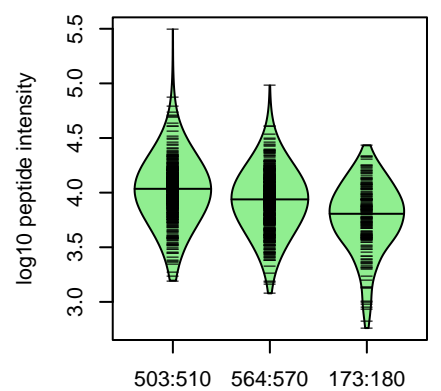
Locus: 3 (Sort: 3)
 Status: Replicated
 80% power: Yes
 SNP: 12:104348430:A:G
 rsID: rs2576975
 UniProtID: P14625
 HGNC gene: HSP90B1
 Type: Cis-pQTL

HP [cis]

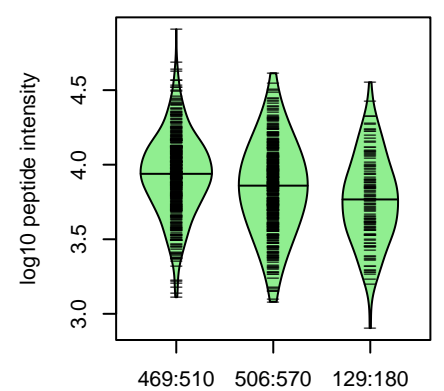
16:72088964:C:T_T
 $p = 1.5e-121$, $\beta = 0.856$, $N = 1259$

VTSIQDWVQK pc2

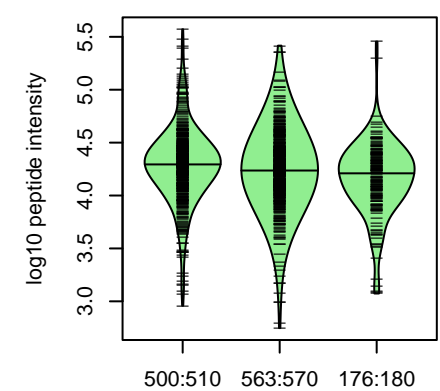
16:72088964:C:T_T
 $p = 2.7e-142$, $\beta = 0.911$, $N = 1258$

TEGDGVYTLNNEK pc2

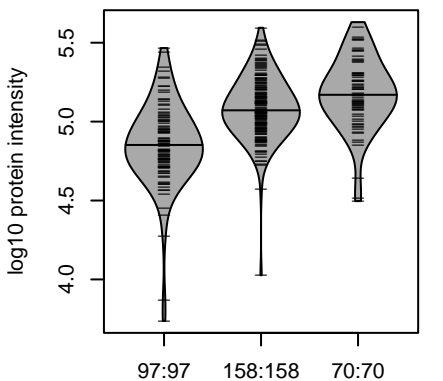
16:72088964:C:T_T
 $p = 2.9e-23$, $\beta = -0.4$, $N = 1240$

LRTEGDGVYTLNNEK pc3

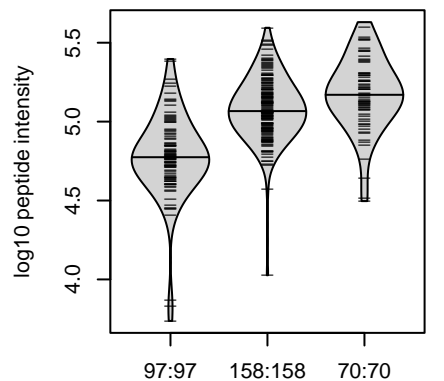
16:72088964:C:T_T
 $p = 1.5e-10$, $\beta = -0.284$, $N = 1104$

SPVGVQPILNEHTFCAGMSK pc3

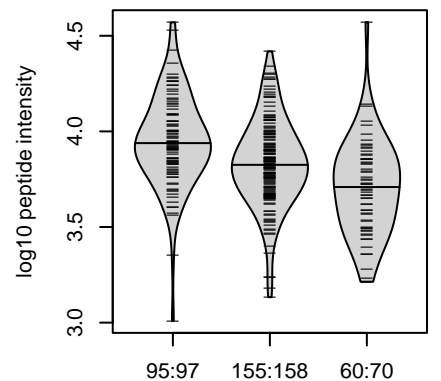
16:72088964:C:T_T
 $p = 1.7e-06$, $\beta = -0.195$, $N = 1239$

P00738 NP4

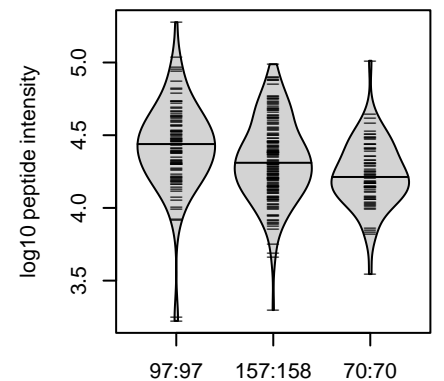
rs8062041
 $p = 9.1e-18$, $\beta = 0.633$, $N = 325$

VTSIQDWVQK pc2

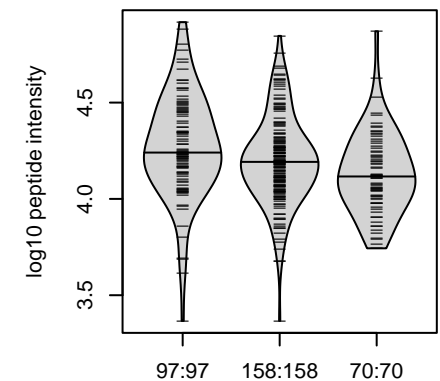
rs8062041
 $p = 2.4e-24$, $\beta = 0.725$, $N = 325$

TEGDGVYTLNNEK pc2

rs8062041
 $p = 2.2e-10$, $\beta = -0.494$, $N = 310$

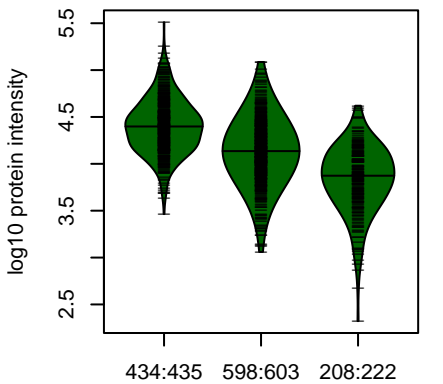
SPVGVQPILNEHTFCAGMSK pc3

rs8062041
 $p = 1.1e-06$, $\beta = -0.369$, $N = 324$

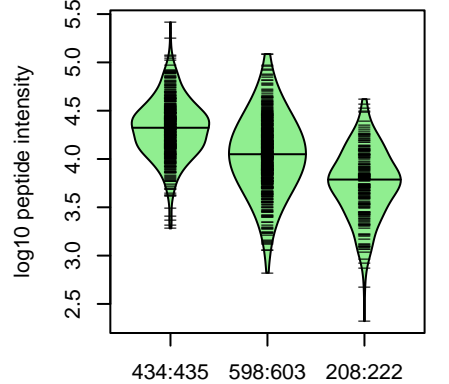
HYEGSTVPEK pc2

rs8062041
 $p = 2.9e-05$, $\beta = -0.318$, $N = 325$

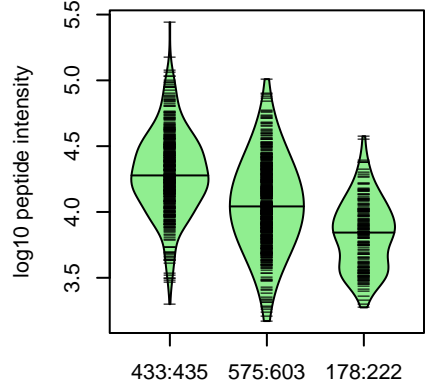
Locus: 4 (Sort: 4)
 Status: Replicated
 80% power: Yes
 SNP: 16:72088964:C:T
 rsID: rs8062041
 UniProtID: P00738
 HGNC gene: HP
 Type: Cis-pQTL

SFTPD [cis]

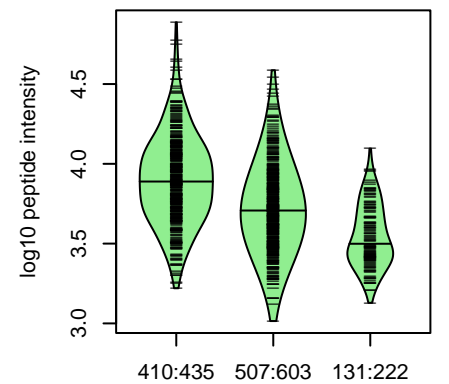
10:81706324:A:G_G
 $p = 1.3e-95$, $\beta = -0.775$, $N = 1240$

SAAENAALQQLVVAK pc2

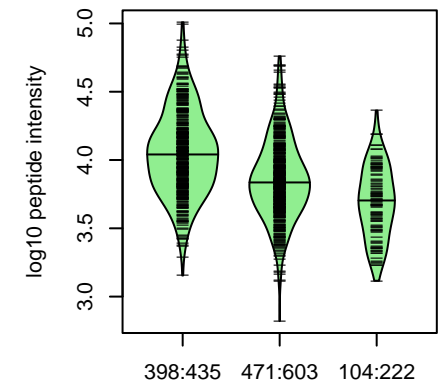
10:81706324:A:G_G
 $p = 4.2e-87$, $\beta = -0.744$, $N = 1240$

NEAFLSMTDSK pc2

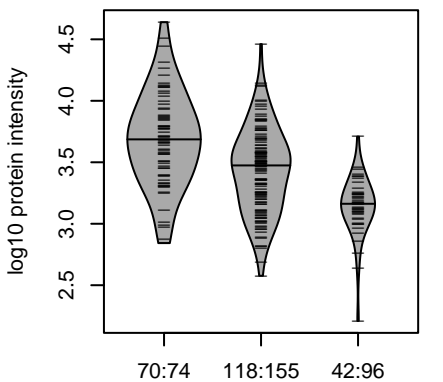
10:81706324:A:G_G
 $p = 7.5e-69$, $\beta = -0.695$, $N = 1186$

QGNIGPQ GK pc2

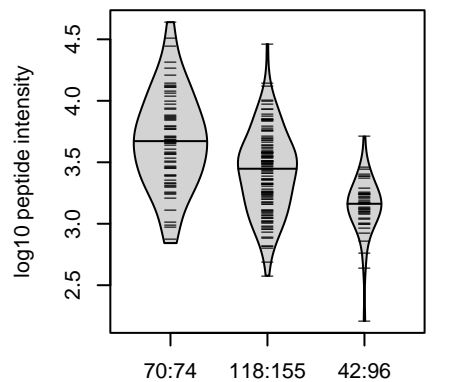
10:81706324:A:G_G
 $p = 1.1e-47$, $\beta = -0.636$, $N = 1048$

KVELFPNGQSVGEK pc3

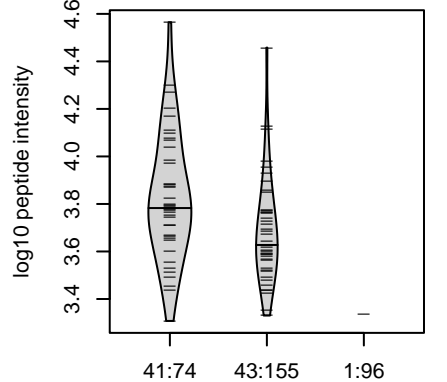
10:81706324:A:G_G
 $p = 4.8e-38$, $\beta = -0.605$, $N = 973$

P35247 NP5

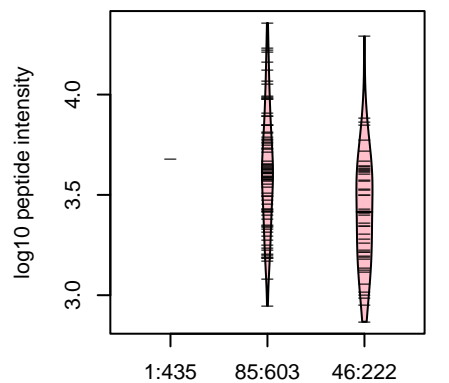
rs721917
 $p = 3.6e-10$, $\beta = -0.574$, $N = 230$

SAAENAALQQLVVAK pc2

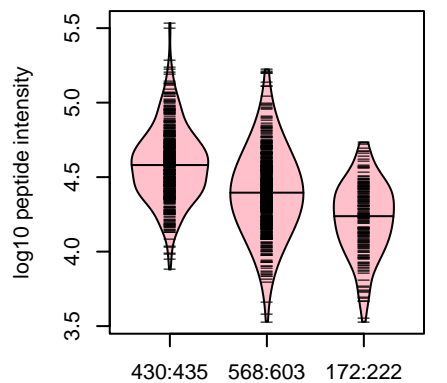
rs721917
 $p = 7e-10$, $\beta = -0.559$, $N = 230$

NEAFLSMTDSK pc2

rs721917
 $p = 0.078$, $\beta = -0.351$, $N = 85$

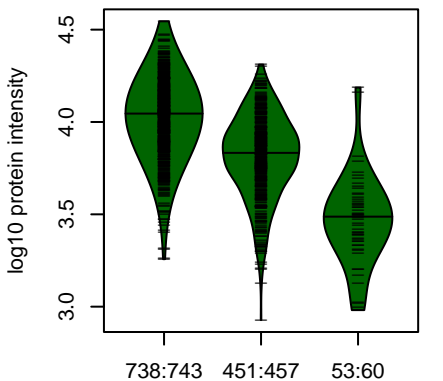
**PFTEAQLLCTQAGGQLATPR pc3
rs3088308 ALT**

10:81706324:A:G_G
 $p = 1e-24$, $\text{model} = \text{REC}$, $N = 132$

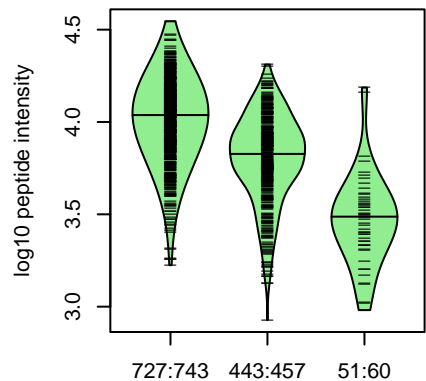
**PFTEAQLLCTQAGGQLASPR pc3
rs3088308 REF**

10:81706324:A:G_G
 $p = 1.8e-17$, $\text{model} = \text{DOM}$, $N = 1170$

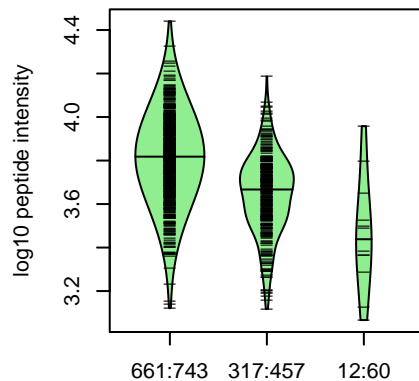
Locus: 5 (Sort: 5)
 Status: Replicated
 80% power: Yes
 SNP: 10:81706324:A:G
 rsID: rs721917
 UniProtID: P35247
 HGNC gene: SFTPD
 Type: Cis-pQTL

PON2 [cis]

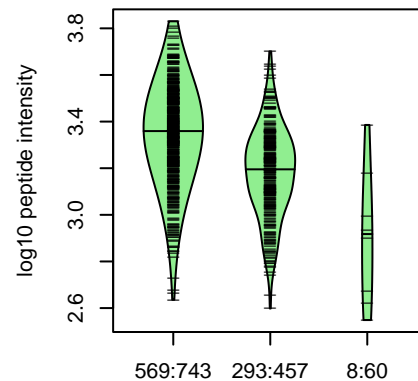
7:95030632:A:C_C
 $p = 2.3e-91$, $\beta = -0.916$, $N = 1242$

YIYVADILAHEIHVLEK pc3

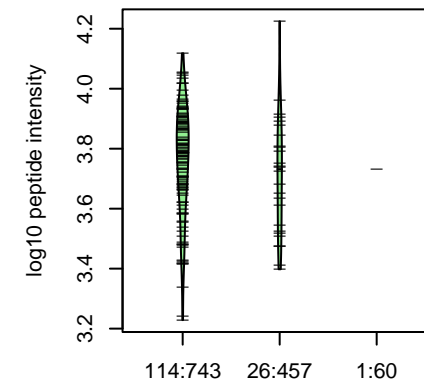
7:95030632:A:C_C
 $p = 7.1e-81$, $\beta = -0.878$, $N = 1221$

EVESVDLPHCHLIK pc3

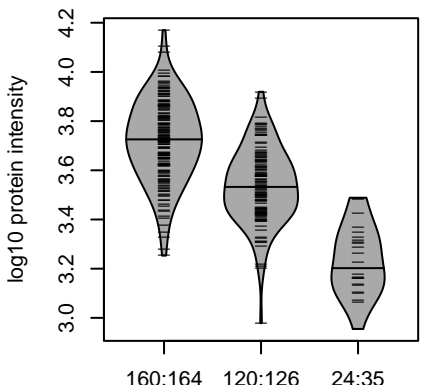
7:95030632:A:C_C
 $p = 1.2e-45$, $\beta = -0.853$, $N = 990$

LFVYDPNPPSSEVLR pc2

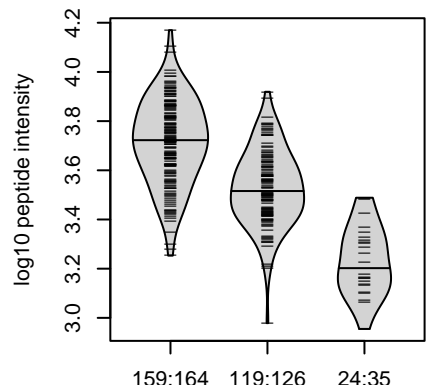
7:95030632:A:C_C
 $p = 8.2e-35$, $\beta = -0.799$, $N = 870$

LLIGTLYHR pc2

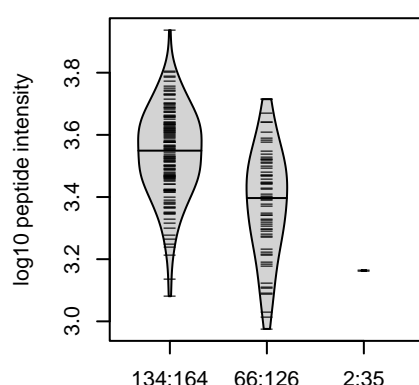
7:95030632:A:C_C
 $p = 0.17$, $\beta = -0.271$, $N = 141$

A0A0J9YXF2 NP5

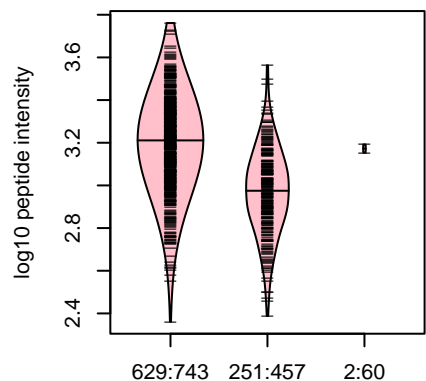
rs17879277
 $p = 8.4e-36$, $\beta = -0.979$, $N = 304$

YIYVADILAHEIHVLEK pc3

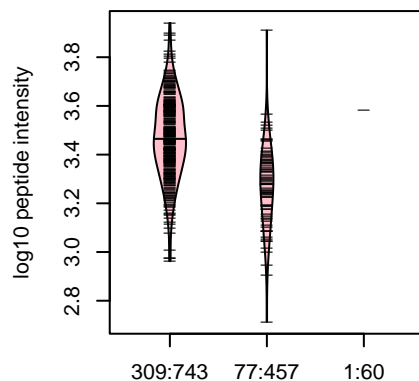
rs17879277
 $p = 3.3e-34$, $\beta = -0.966$, $N = 302$

LFVYDPNPPSSEVLR pc2

rs17879277
 $p = 1.5e-12$, $\beta = -0.927$, $N = 202$

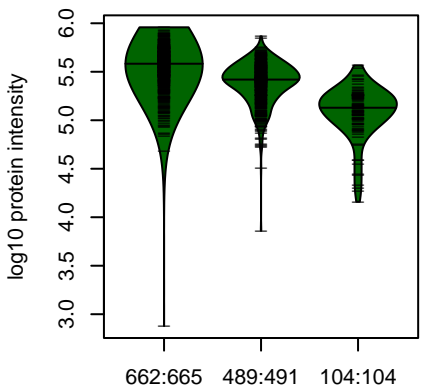
**FEEAENSLHLK pc3
rs12026 REF**

7:95030632:A:C_C
 $p = 4.9e-42$, $\text{model} = \text{REC}$, $N = 882$

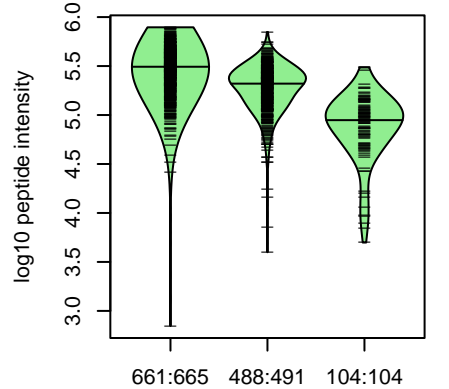
**IQNILSEK pc2
rs7493 REF**

7:95030632:A:C_C
 $p = 6.8e-25$, $\text{model} = \text{REC}$, $N = 387$

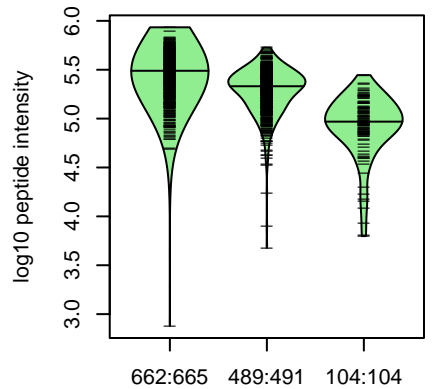
Locus: 6 (Sort: 6)
 Status: Replicated
 80% power: Yes
 SNP: 7:95030632:A:C
 rsID: rs17879277
 UniProtID: A0A0J9YXF2
 HGNC gene: PON2
 Type: Cis-pQTL

MST1 [cis]

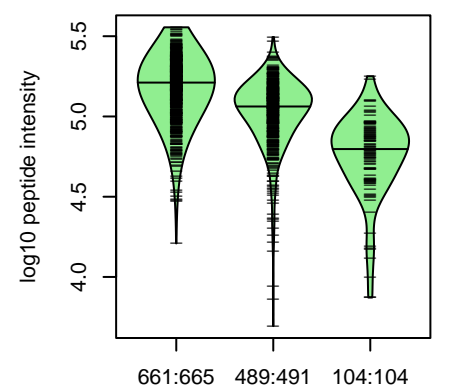
3:49721532:G:A_A
 $p = 4.1e-87$, $\beta = -0.802$, $N = 1255$

VVGGHPGNSPWTVSLR pc3

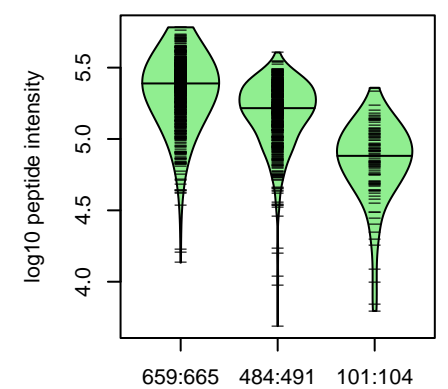
3:49721532:G:A_A
 $p = 9.9e-84$, $\beta = -0.789$, $N = 1253$

MVCGPSGSQVLVLLK pc2

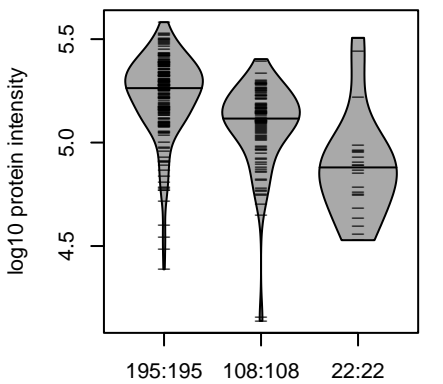
3:49721532:G:A_A
 $p = 1.1e-80$, $\beta = -0.776$, $N = 1255$

TPFDYCALR pc2

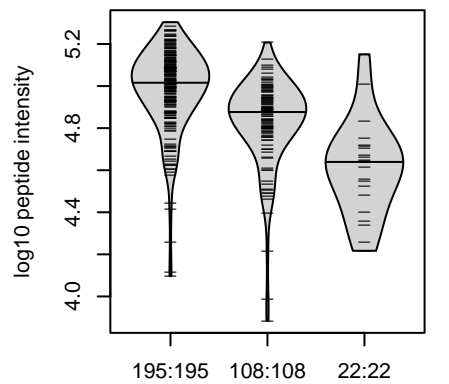
3:49721532:G:A_A
 $p = 6.1e-77$, $\beta = -0.76$, $N = 1254$

CEIAGWGETK pc2

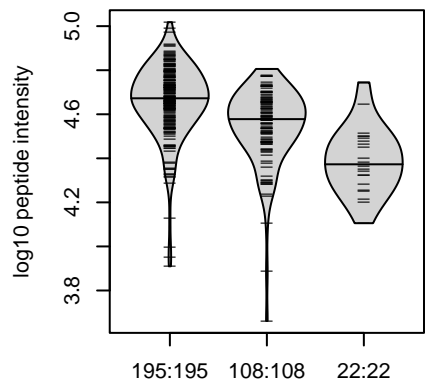
3:49721532:G:A_A
 $p = 1.8e-76$, $\beta = -0.763$, $N = 1244$

G3XAK1 NP3

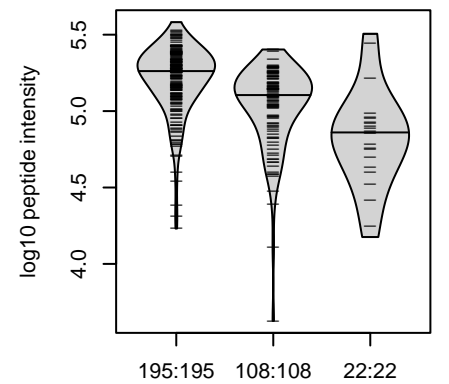
rs3197999
 $p = 1.6e-17$, $\beta = -0.699$, $N = 325$

CEIAGWGETK pc2

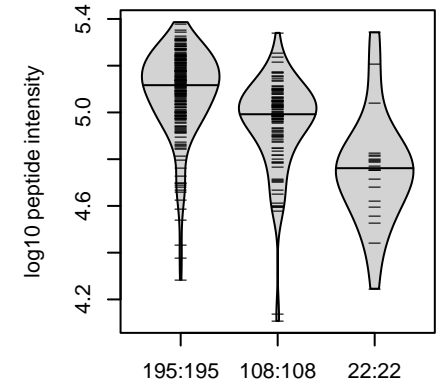
rs3197999
 $p = 1.3e-19$, $\beta = -0.753$, $N = 325$

QEATTVSCFR pc2

rs3197999
 $p = 1.2e-16$, $\beta = -0.695$, $N = 325$

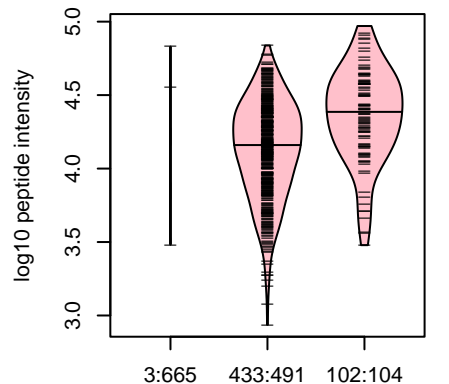
VVGGHPGNSPWTVSLR pc3

rs3197999
 $p = 1.8e-16$, $\beta = -0.691$, $N = 325$

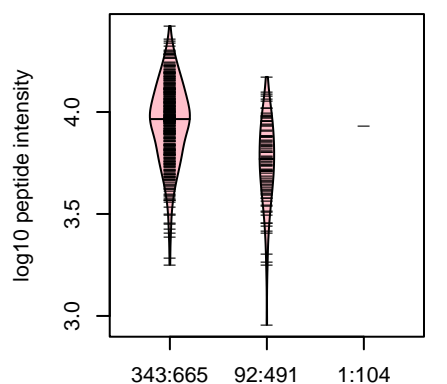
MVCGPSGSQVLVLLK pc2

rs3197999
 $p = 2.7e-16$, $\beta = -0.688$, $N = 325$

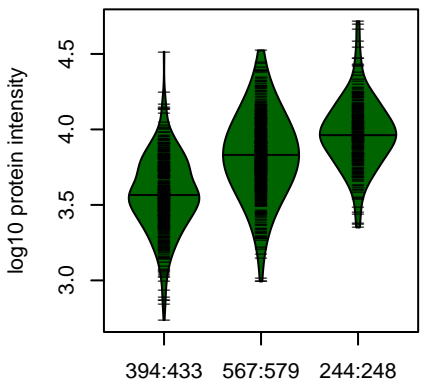
Locus: 7 (Sort: 7)
 Status: Replicated
 80% power: Yes
 SNP: 3:49721532:G:A
 rsID: rs3197999
 UniProtID: G3XAK1
 HGNC gene: MST1
 Type: Cis-pQTL

**SCWPAVFTR pc2
rs3197999 ALT**

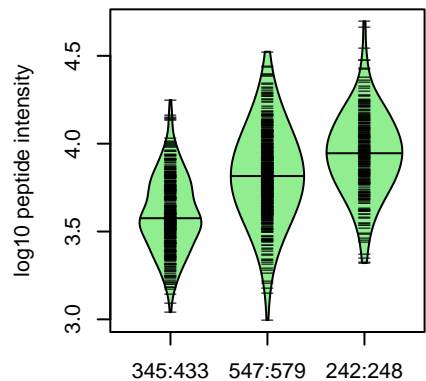
3:49721532:G:A_A
 $p = 1.3e-281$, $\text{model} = \text{REC}$, $N = 538$

**WPAVFTR pc2
rs3197999 REF**

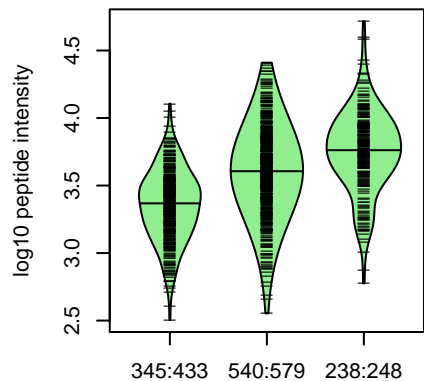
3:49721532:G:A_A
 $p = 1.9e-42$, $\text{model} = \text{REC}$, $N = 436$

VMO1 [cis]

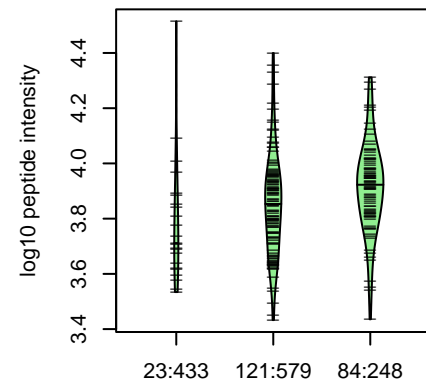
17:4690296:T:C_C
 $p = 1.8e-84$, $\beta = 0.722$, $N = 1205$

GLGDDTALNDAR pc2

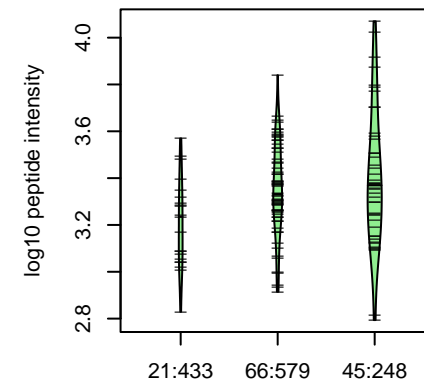
17:4690296:T:C_C
 $p = 5.6e-66$, $\beta = 0.667$, $N = 1134$

VEAPTTLGDNTAANNVR pc2

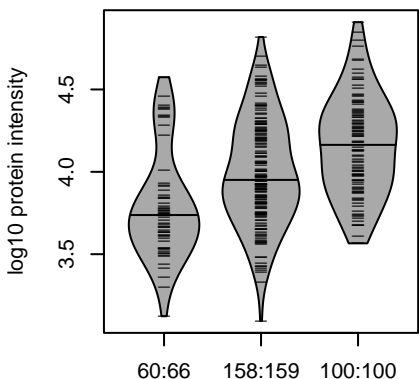
17:4690296:T:C_C
 $p = 1e-52$, $\beta = 0.604$, $N = 1123$

GACGLQTK pc2

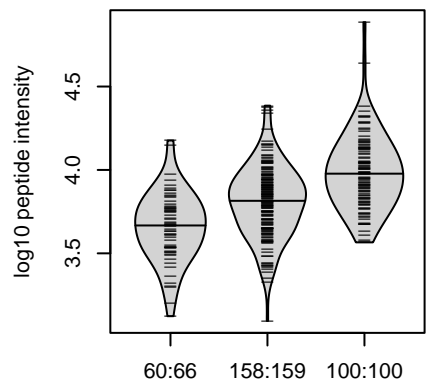
17:4690296:T:C_C
 $p = 0.00023$, $\beta = 0.376$, $N = 228$

GGAYLVAFSLR pc2

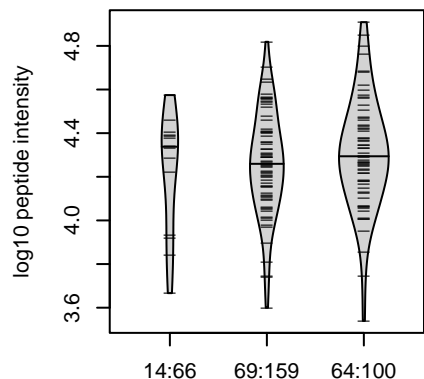
17:4690296:T:C_C
 $p = 0.0038$, $\beta = 0.355$, $N = 132$

Q7Z5L0 NP2

rs8068141
 $p = 4.5e-12$, $\beta = 0.524$, $N = 318$

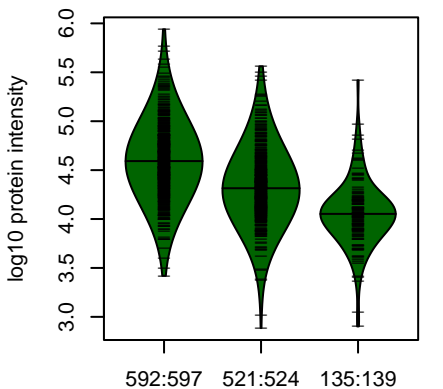
GLGDDTALNDAR pc2

rs8068141
 $p = 3.8e-20$, $\beta = 0.684$, $N = 318$

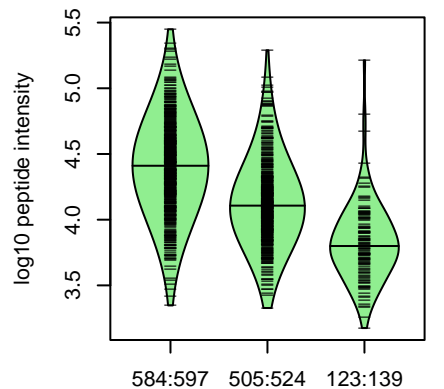
VEAPTTLGDNTAANNVR pc2

rs8068141
 $p = 0.12$, $\beta = 0.193$, $N = 147$

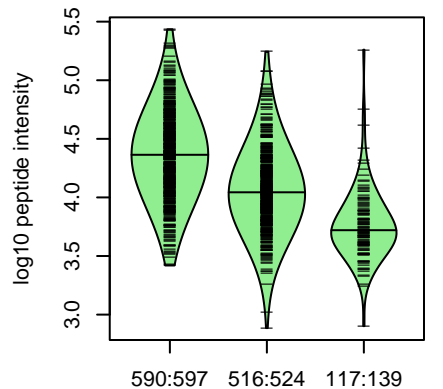
Locus: 8 (Sort: 8)
 Status: Replicated
 80% power: Yes
 SNP: 17:4690296:T:C
 rsID: rs8068141
 UniProtID: Q7Z5L0
 HGNC gene: VMO1
 Type: Cis-pQTL

MBL2 [cis]

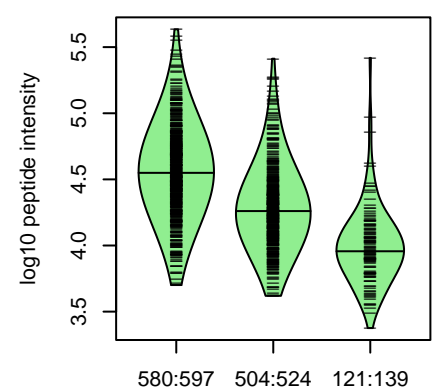
10:54536839:T:G_T
 $p = 9.4e-81$, $\beta = -0.746$, $N = 1248$

TEGQFVDLTG NR pc2

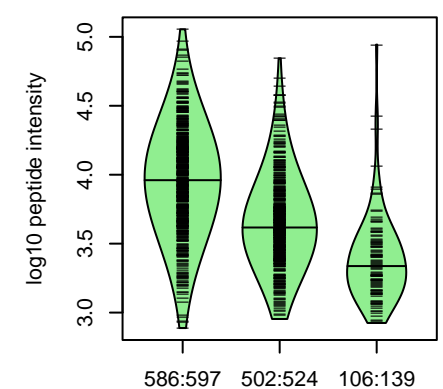
10:54536839:T:G_T
 $p = 7.2e-90$, $\beta = -0.801$, $N = 1212$

WLTFSLGK pc2

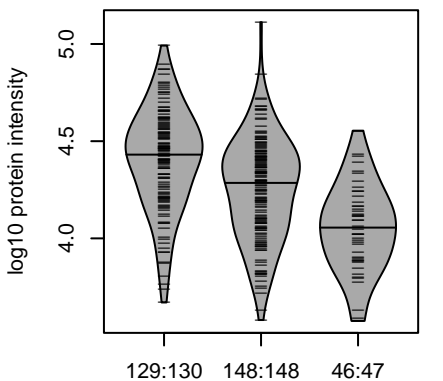
10:54536839:T:G_T
 $p = 1.8e-89$, $\beta = -0.805$, $N = 1223$

EEAFLGITDEK pc2

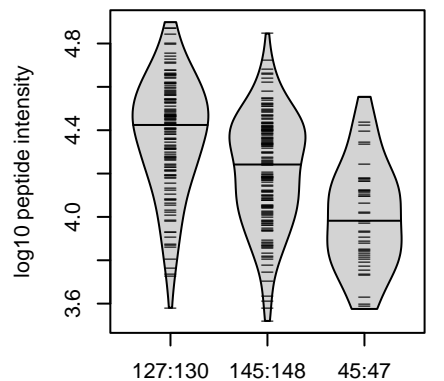
10:54536839:T:G_T
 $p = 2.3e-89$, $\beta = -0.802$, $N = 1205$

FFLTNGEIMTFEK pc2

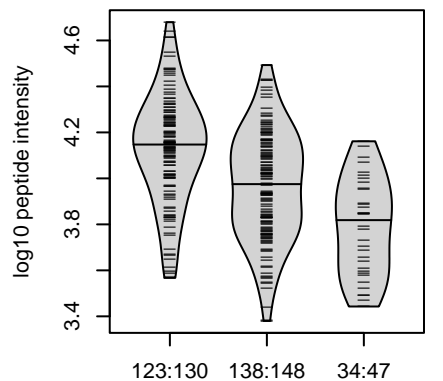
10:54536839:T:G_T
 $p = 3.8e-79$, $\beta = -0.781$, $N = 1194$

P11226 NP2

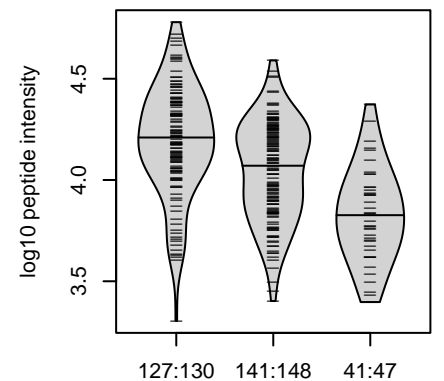
rs7899547
 $p = 4.5e-13$, $\beta = -0.556$, $N = 323$

EEAFLGITDEK pc2

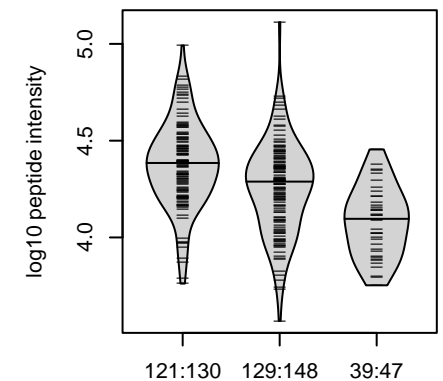
rs7899547
 $p = 5.3e-14$, $\beta = -0.579$, $N = 317$

TEGQFVDLTG NR pc2

rs7899547
 $p = 3.8e-13$, $\beta = -0.601$, $N = 295$

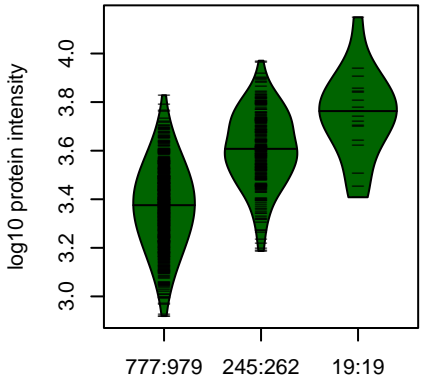
WLTFSLGK pc2

rs7899547
 $p = 4.8e-13$, $\beta = -0.571$, $N = 309$

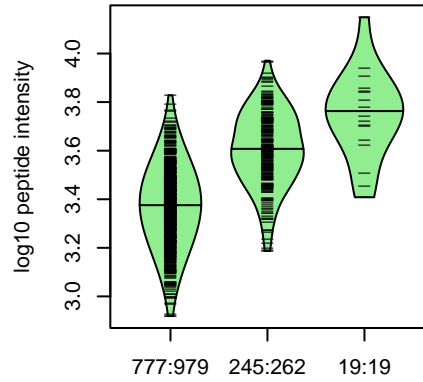
FQASVATPR pc2

rs7899547
 $p = 6.4e-11$, $\beta = -0.532$, $N = 289$

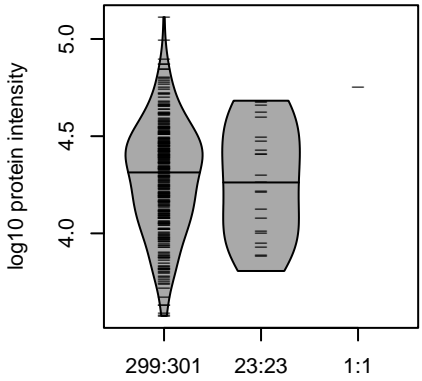
Locus: 9 (Sort: 9)
 Status: Replicated
 80% power: Yes
 SNP: 10:54536839:T:G
 rsID: rs7899547
 UniProtID: P11226
 HGNC gene: MBL2
 Type: Cis-pQTL

GGTA1P [cis]

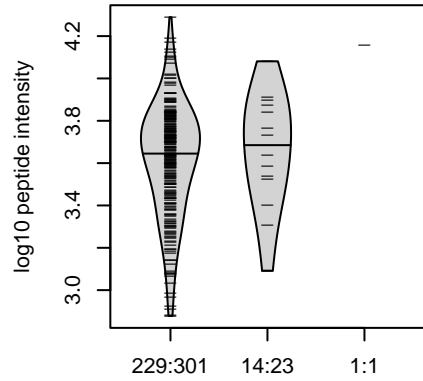
9:124225598:C:T_T
 $p = 3.5e-79$, $\beta = 1.1$, $N = 1041$

NPEVDDSSAQK pc2

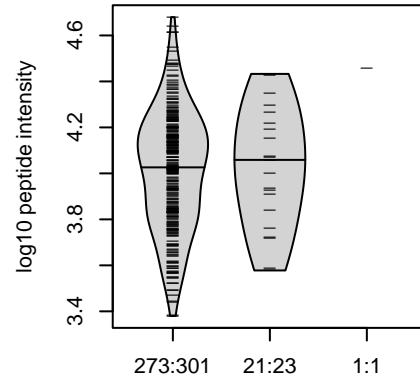
9:124225598:C:T_T
 $p = 3.5e-79$, $\beta = 1.1$, $N = 1041$

Q4G0N0 NP2

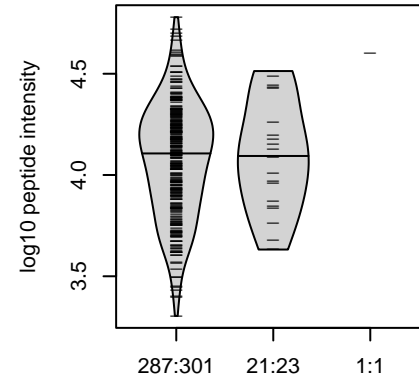
rs77378583
 $p = 0.85$, $\beta = 0.038$, $N = 323$

FFLTNGEIMTFEK pc2

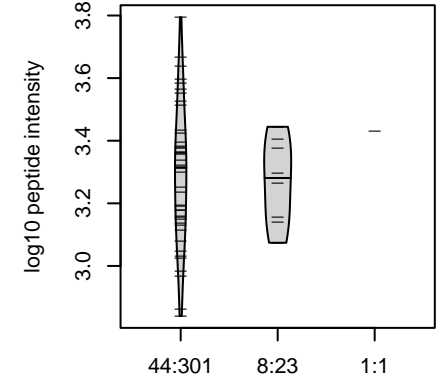
rs77378583
 $p = 0.13$, $\beta = 0.361$, $N = 244$

TEGQFVDLTGNR pc2

rs77378583
 $p = 0.34$, $\beta = 0.196$, $N = 295$

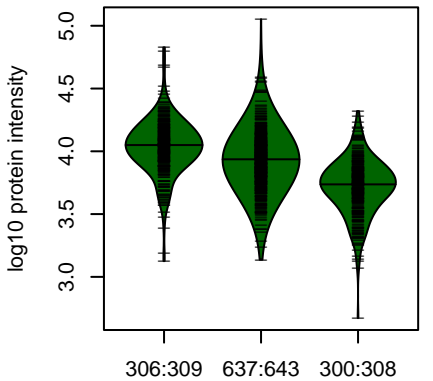
WLTFSLGK pc2

rs77378583
 $p = 0.41$, $\beta = 0.17$, $N = 309$

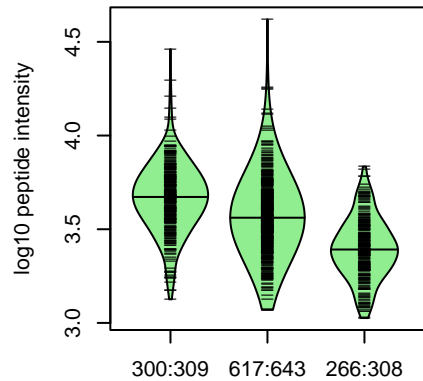
SPGDSSLAASER pc2

rs77378583
 $p = 0.71$, $\beta = -0.113$, $N = 53$

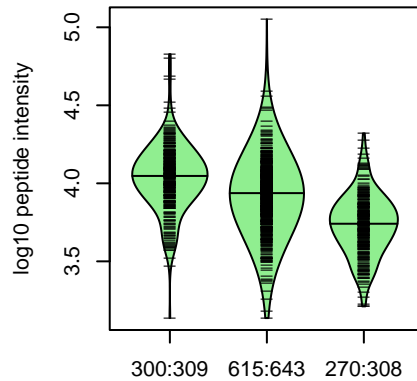
Locus: 10 (Sort: 10)
 Status: Not replicated
 80% power: Yes
 SNP: 9:124225598:C:T
 rsID: rs77378583
 UniProtID: Q4G0N0
 HGNC gene: GGTA1P
 Type: Cis-pQTL

FN3K [cis]

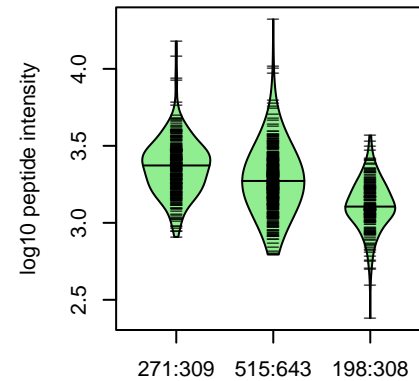
17:80693899:C:T_T
 $p = 6e-70$, $\beta = -0.673$, $N = 1243$

AYDTDAGPVFVK pc2

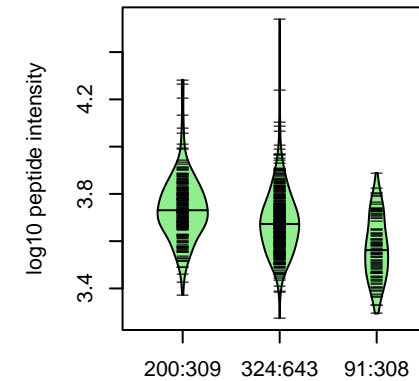
17:80693899:C:T_T
 $p = 4.4e-66$, $\beta = -0.677$, $N = 1183$

VIDLPGGGAAFVMEHLK pc3

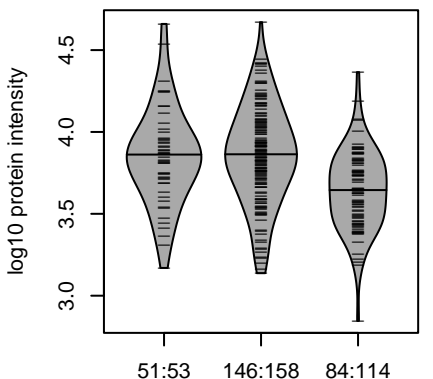
17:80693899:C:T_T
 $p = 1.9e-62$, $\beta = -0.657$, $N = 1185$

QMFEGEVASLEALR pc2

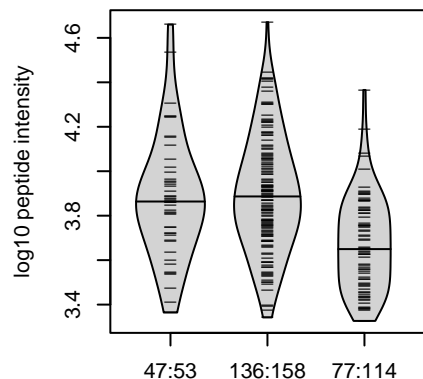
17:80693899:C:T_T
 $p = 1.4e-47$, $\beta = -0.635$, $N = 984$

SPSLGTMR pc2

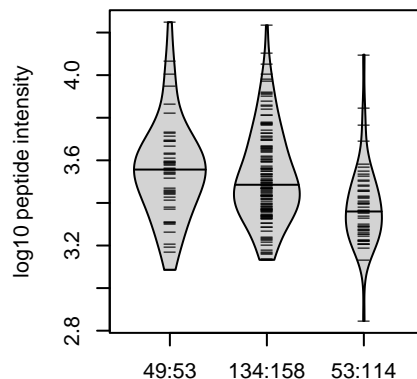
17:80693899:C:T_T
 $p = 5.6e-22$, $\beta = -0.559$, $N = 615$

Q9H479 NP1

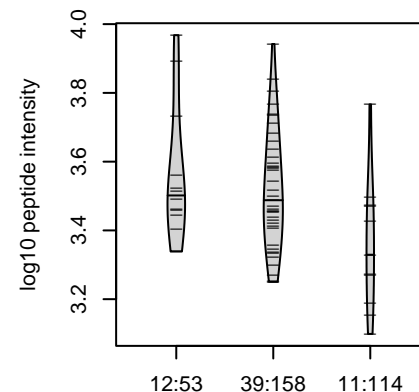
rs3848403
 $p = 1.3e-06$, $\beta = -0.412$, $N = 281$

VIDLPGGGAAFVMEHLK pc3

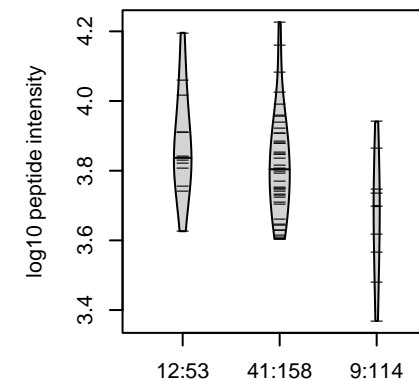
rs3848403
 $p = 2.3e-07$, $\beta = -0.453$, $N = 260$

AYDTDAGPVFVK pc2

rs3848403
 $p = 2.8e-05$, $\beta = -0.401$, $N = 236$

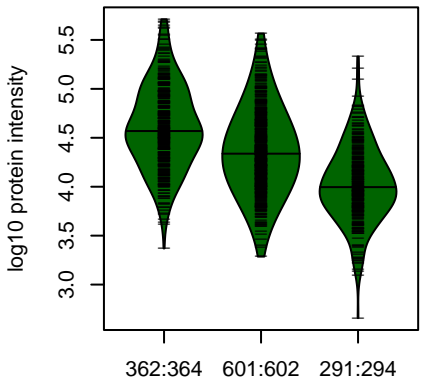
LGEQMADLHLYNQK pc3

rs3848403
 $p = 0.0084$, $\beta = -0.514$, $N = 62$

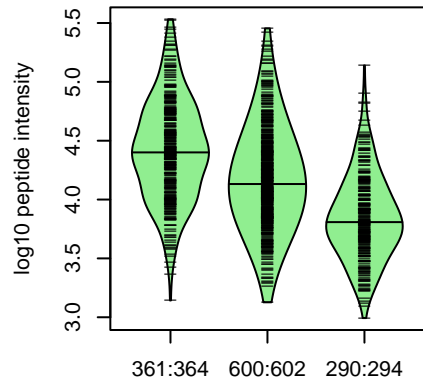
SPSLGTMR pc2

rs3848403
 $p = 0.033$, $\beta = -0.441$, $N = 62$

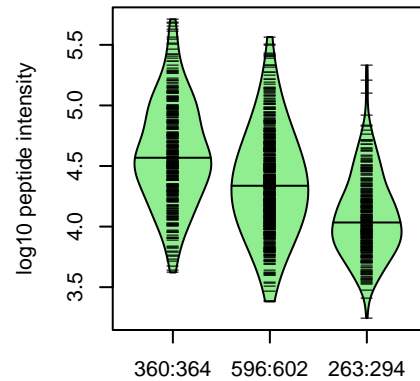
Locus: 11 (Sort: 11)
 Status: Replicated
 80% power: Yes
 SNP: 17:80693899:C:T
 rsID: rs3848403
 UniProtID: Q9H479
 HGNC gene: FN3K
 Type: Cis-pQTL

CHI3L1 [cis]

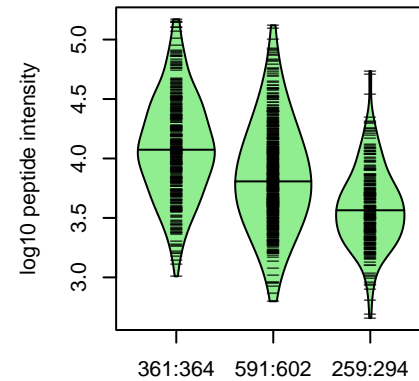
1:203152801:T:C_C
 $p = 5.6e-69$, $\beta = -0.646$, $N = 1254$

QLLSAALSAGK pc2

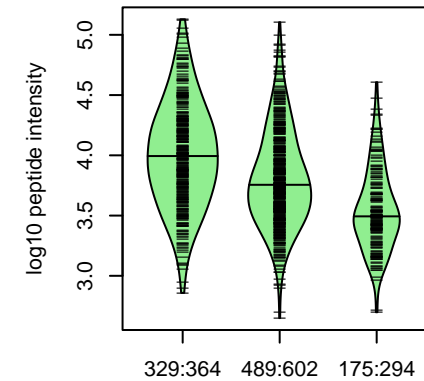
1:203152801:T:C_C
 $p = 1.7e-65$, $\beta = -0.632$, $N = 1251$

LVMGIPTFGR pc2

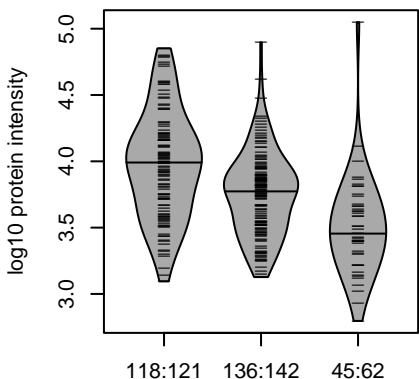
1:203152801:T:C_C
 $p = 4.3e-59$, $\beta = -0.617$, $N = 1219$

TLLSVGGWNFGSQR pc2

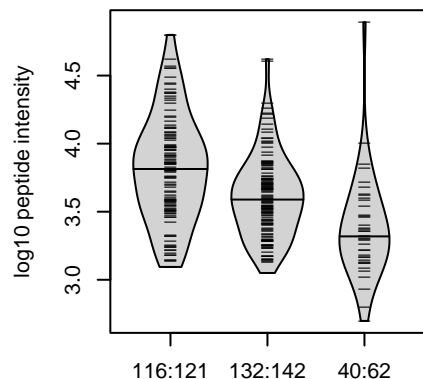
1:203152801:T:C_C
 $p = 2.1e-52$, $\beta = -0.585$, $N = 1211$

GNQWVGYYDDQESVK pc2

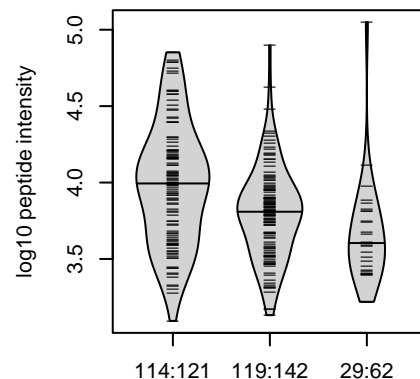
1:203152801:T:C_C
 $p = 2.1e-32$, $\beta = -0.52$, $N = 993$

P36222 NP1

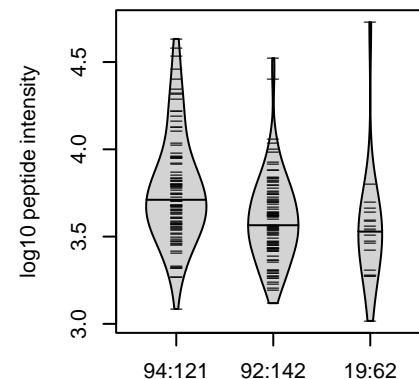
rs880633
 $p = 1.2e-15$, $\beta = -0.617$, $N = 299$

QLLSAALSAGK pc2

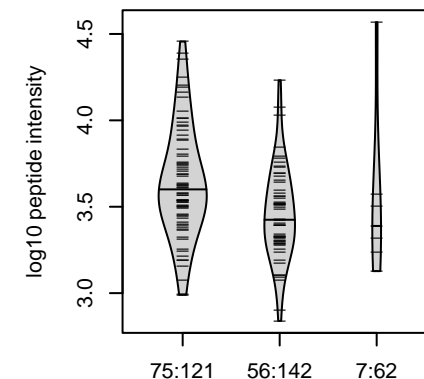
rs880633
 $p = 2.3e-14$, $\beta = -0.615$, $N = 288$

LVMGIPTFGR pc2

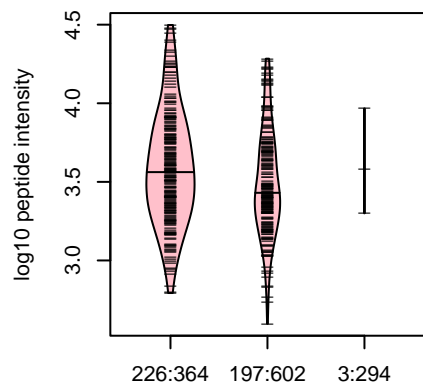
rs880633
 $p = 3.2e-08$, $\beta = -0.493$, $N = 262$

ILGQVPYATK pc2

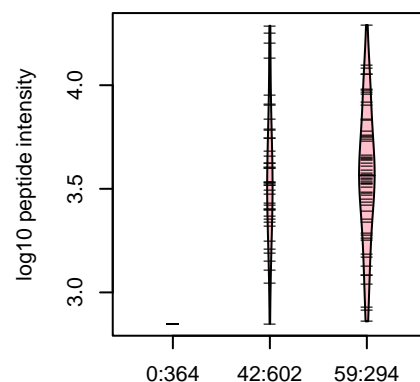
rs880633
 $p = 1.2e-06$, $\beta = -0.501$, $N = 205$

TLLSVGGWNFGSQR pc2

rs880633
 $p = 0.00042$, $\beta = -0.485$, $N = 138$

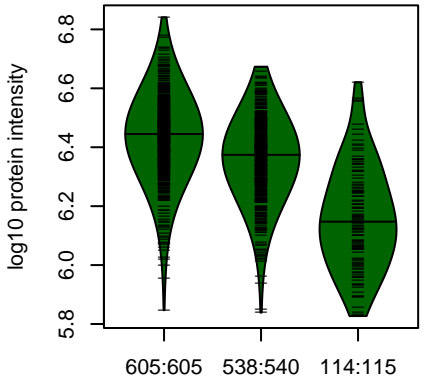
**THGFDGLDLAWLYPGRR pc3
rs880633 REF**

1:203152801:T:C_C
 $p = 1.6e-56$, $\text{model} = \text{DOM}$, $N = 426$

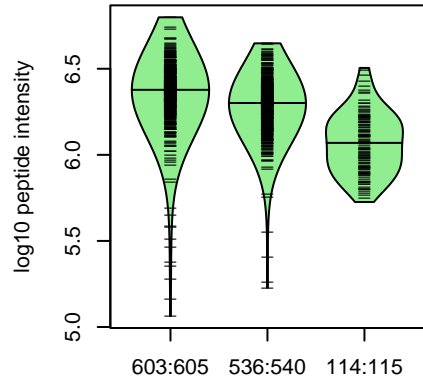
**THGFDGLDLAWLYPGRGDK pc3
rs880633 ALT**

1:203152801:T:C_C
 $p = 2.6e-16$, $\text{model} = \text{REC}$, $N = 101$

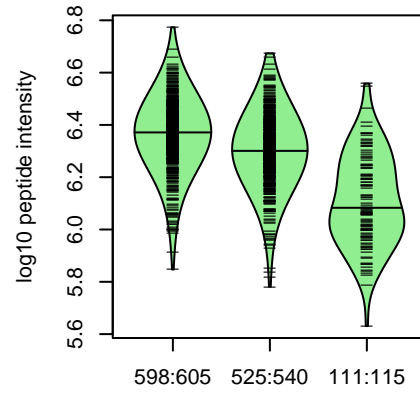
Locus: 12 (Sort: 12)
 Status: Replicated
 80% power: Yes
 SNP: 1:203152801:T:C
 rsID: rs880633
 UniProtID: P36222
 HGNC gene: CHI3L1
 Type: Cis-pQTL

AMBP [trans]

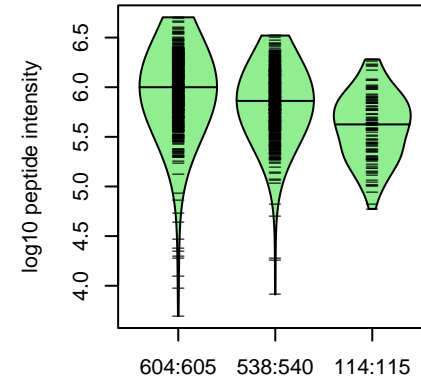
3:126261345:G:A_A
 $p = 3.9e-68$, $\beta = -0.713$, $N = 1257$

ECLQTCR pc2

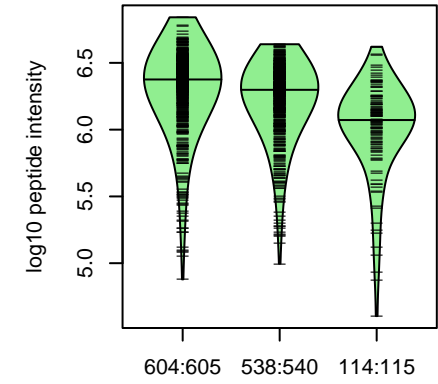
3:126261345:G:A_A
 $p = 9.6e-59$, $\beta = -0.667$, $N = 1253$

AFIQLWAFDAVK pc2

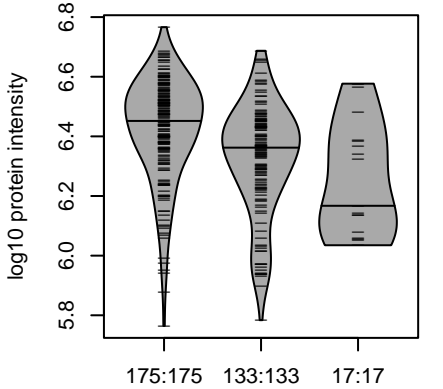
3:126261345:G:A_A
 $p = 1.6e-54$, $\beta = -0.649$, $N = 1234$

EYCGVPGDGDELLR pc2

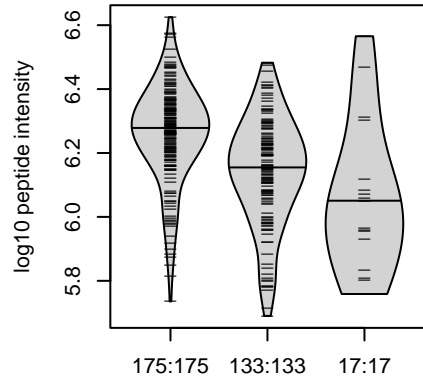
3:126261345:G:A_A
 $p = 1.9e-29$, $\beta = -0.477$, $N = 1256$

TVAACNLPIVR pc2

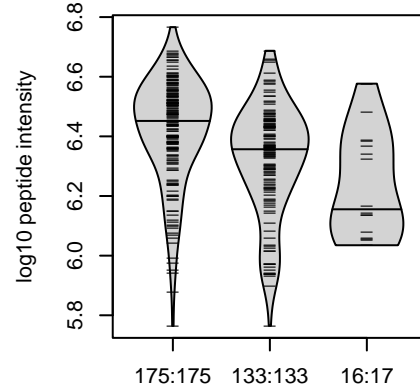
3:126261345:G:A_A
 $p = 8.4e-25$, $\beta = -0.437$, $N = 1256$

P02760 NP2

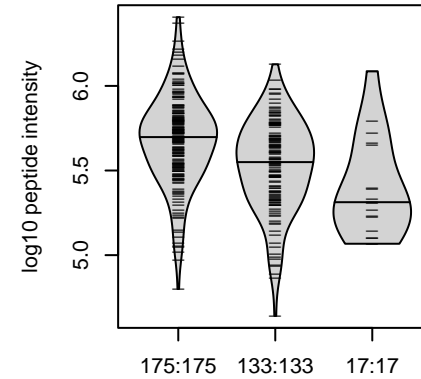
rs1056522
 $p = 1.6e-08$, $\beta = -0.514$, $N = 325$

ECLQTCR pc2

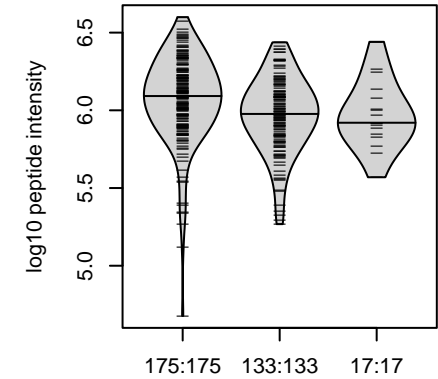
rs1056522
 $p = 9.7e-12$, $\beta = -0.605$, $N = 325$

AFIQLWAFDAVK pc2

rs1056522
 $p = 9.4e-09$, $\beta = -0.521$, $N = 324$

EYCGVPGDGDELLR pc2

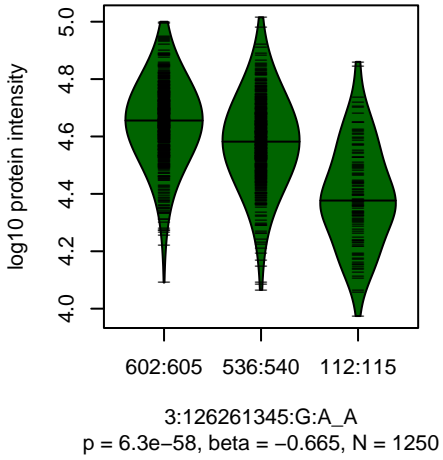
rs1056522
 $p = 9.8e-09$, $\beta = -0.515$, $N = 325$

TVAACNLPIVR pc2

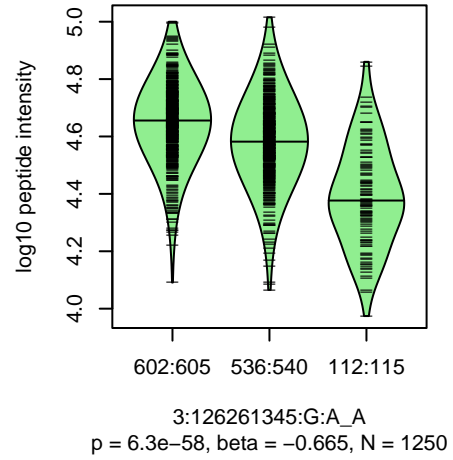
rs1056522
 $p = 9.4e-05$, $\beta = -0.355$, $N = 325$

Locus: 13 (Sort: 13)
 Status: Replicated
 80% power: Yes
 SNP: 3:126261345:G:A
 rsID: rs1056522
 UniProtID: P02760
 HGNC gene: AMBP
 Type: Trans-pQTL

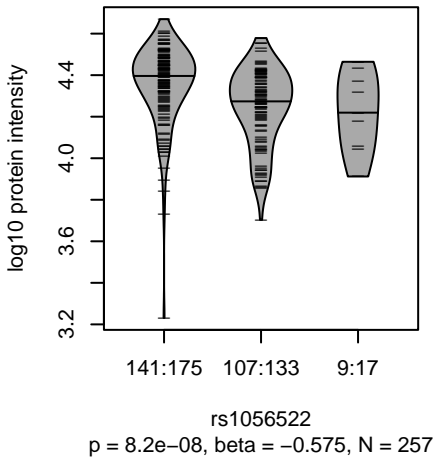
CCDC132 [trans]



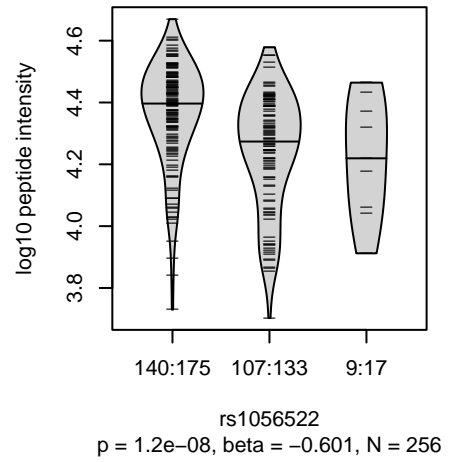
ALWEVMLSYYR pc2



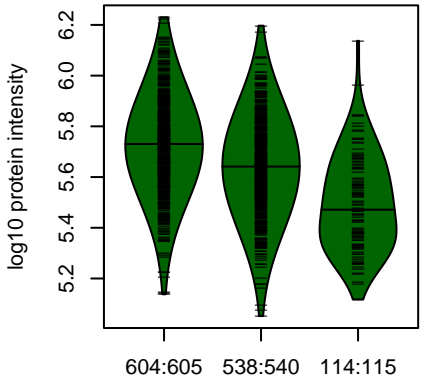
Q96JG6 NP2



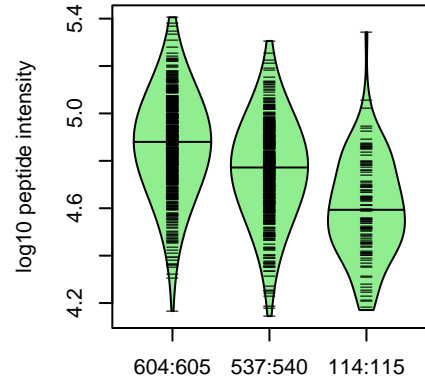
ALWEVMLSYYR pc2



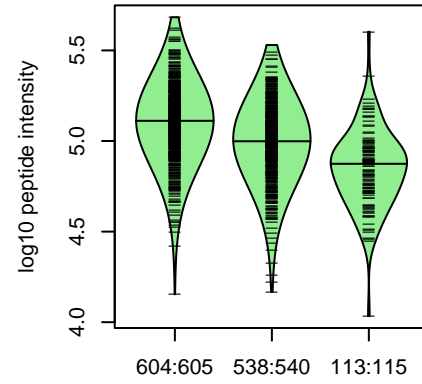
Locus: 13 (Sort: 14)
Status: Replicated
80% power: Yes
SNP: 3:126261345:G:A
rsID: rs1056522
UniProtID: Q96JG6
HGNC gene: CCDC132
Type: Trans-pQTL

ITIH1 [trans]

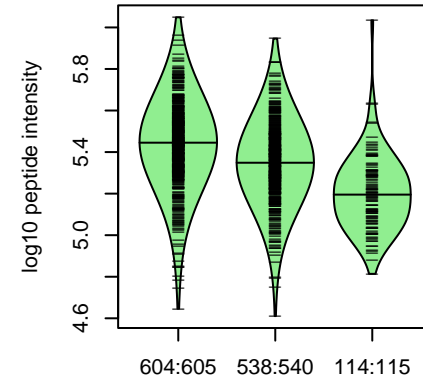
3:126261345:G:A_A
 $p = 3.4e-35$, $\beta = -0.521$, $N = 1256$

NHMQYEIVIK pc2

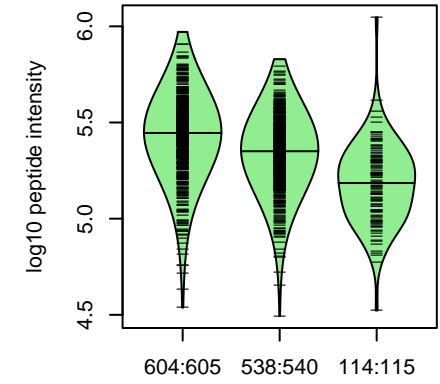
3:126261345:G:A_A
 $p = 1e-44$, $\beta = -0.586$, $N = 1255$

TMEQFTIHLTVNPQSK pc3

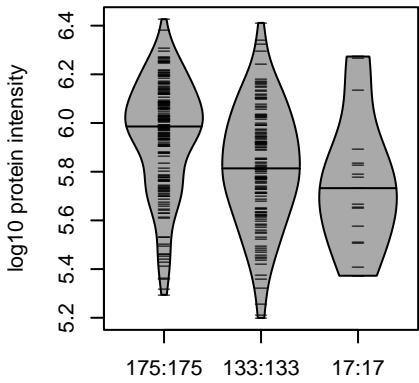
3:126261345:G:A_A
 $p = 3e-39$, $\beta = -0.551$, $N = 1255$

LDAQASFLPK pc2

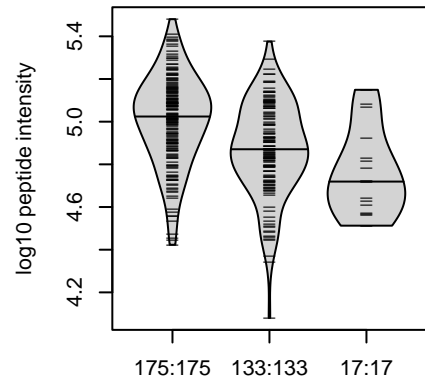
3:126261345:G:A_A
 $p = 1.5e-37$, $\beta = -0.538$, $N = 1256$

VTFQLTYEEVLK pc2

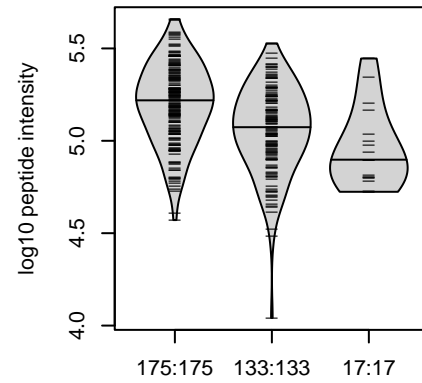
3:126261345:G:A_A
 $p = 1.9e-36$, $\beta = -0.53$, $N = 1256$

P19827 NP2

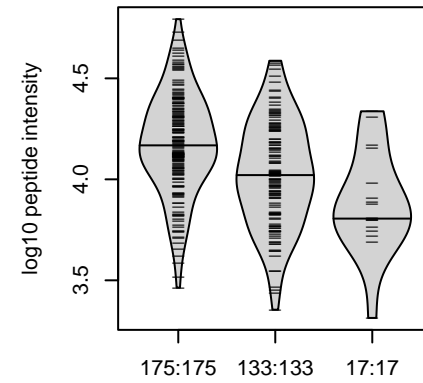
rs1056522
 $p = 2e-06$, $\beta = -0.438$, $N = 325$

QAVDTAVDGVFIR pc2

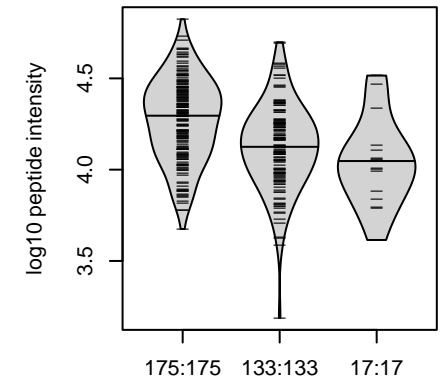
rs1056522
 $p = 4.8e-10$, $\beta = -0.557$, $N = 325$

QYYEGSEIVVAGR pc2

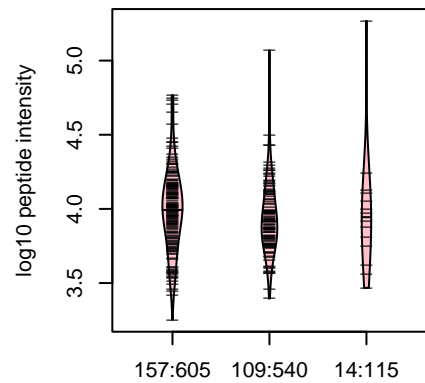
rs1056522
 $p = 8.9e-10$, $\beta = -0.548$, $N = 325$

VTYDVSRDK pc2

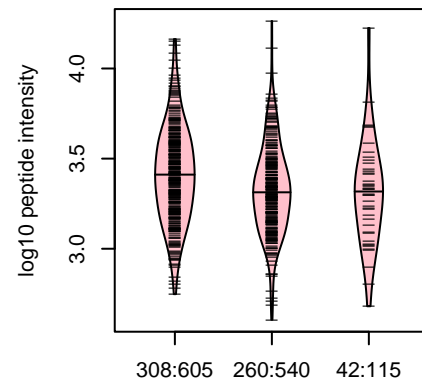
rs1056522
 $p = 1.9e-09$, $\beta = -0.538$, $N = 325$

GHMLENHVER pc3

rs1056522
 $p = 3.5e-09$, $\beta = -0.53$, $N = 325$

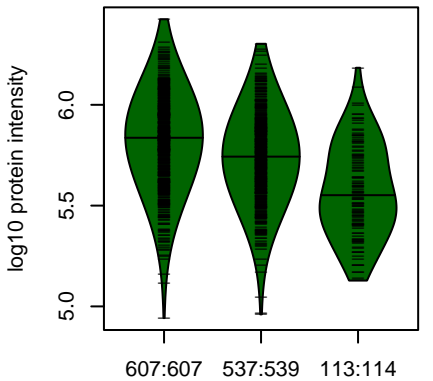
**ANLSSQALR pc2
rs1042779 ALT**

3:126261345:G:A_A
 $p = 0.0023$, $\text{model} = \text{REC}$, $N = 280$

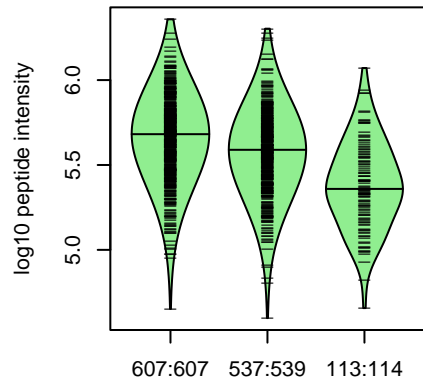
**MSLDYGFVTLTSMISIR pc3
rs1042779 ALT**

3:126261345:G:A_A
 $p = 0.0081$, $\text{model} = \text{DOM}$, $N = 610$

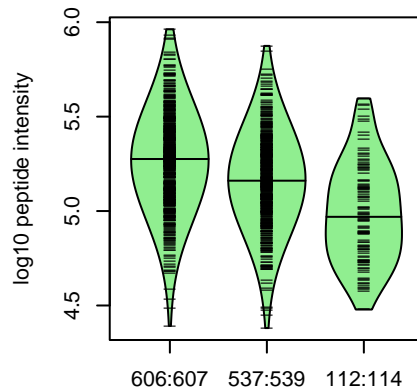
Locus: 13 (Sort: 15)
 Status: Replicated
 80% power: Yes
 SNP: 3:126261345:G:A
 rsID: rs1056522
 UniProtID: P19827
 HGNC gene: ITIH1
 Type: Trans-pQTL

ITIH3 [trans]

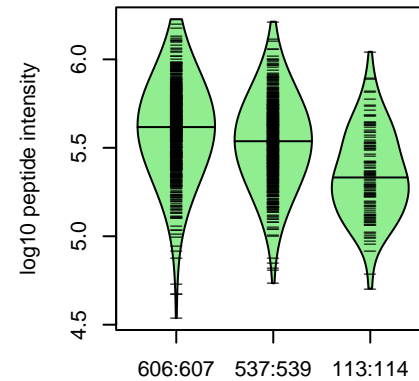
3:126261202:G:A_A
 $p = 3e-28$, $\beta = -0.467$, $N = 1257$

FTVSVNVAAGSK pc2

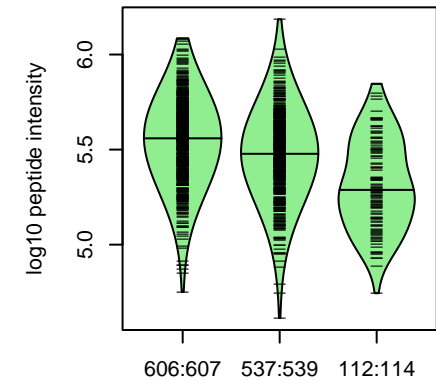
3:126261202:G:A_A
 $p = 1.8e-29$, $\beta = -0.478$, $N = 1257$

FAHNVVTMR pc2

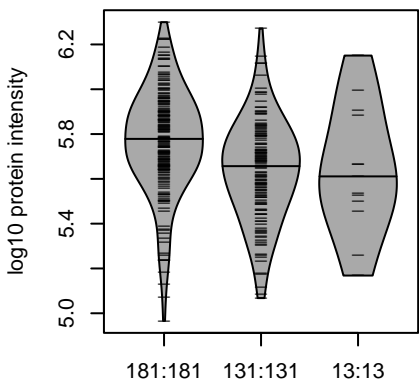
3:126261202:G:A_A
 $p = 1.9e-29$, $\beta = -0.478$, $N = 1255$

VTFELTYEELLK pc2

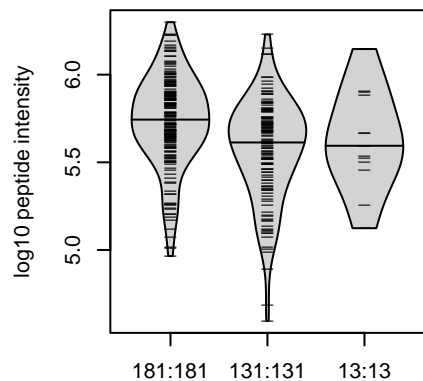
3:126261202:G:A_A
 $p = 6.8e-25$, $\beta = -0.438$, $N = 1256$

YHFVTPLTSMVVTKPEDNER pc2

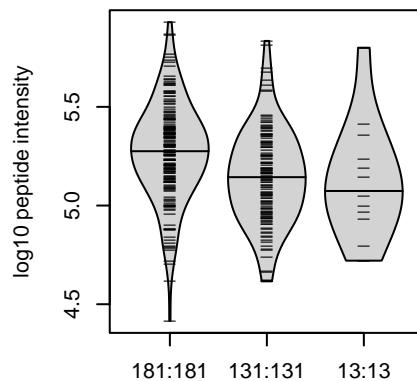
3:126261202:G:A_A
 $p = 1.3e-24$, $\beta = -0.436$, $N = 1255$

Q06033 NP2

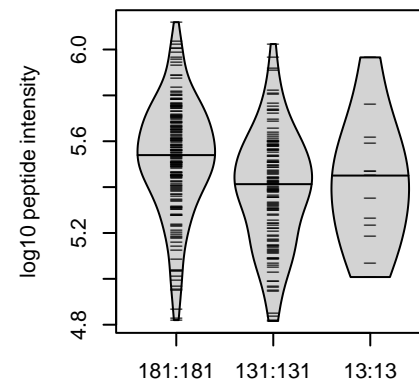
rs1056524
 $p = 1.7e-06$, $\beta = -0.456$, $N = 325$

SLPEGVANGIEVYSTK pc2

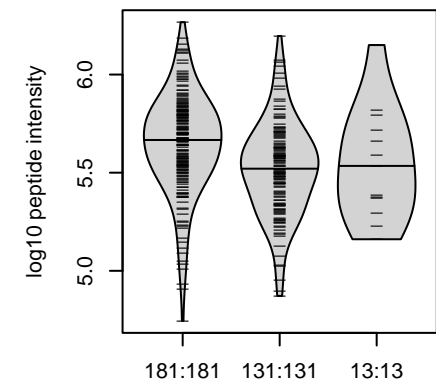
rs1056524
 $p = 2.3e-06$, $\beta = -0.443$, $N = 325$

FAHNVVTMR pc2

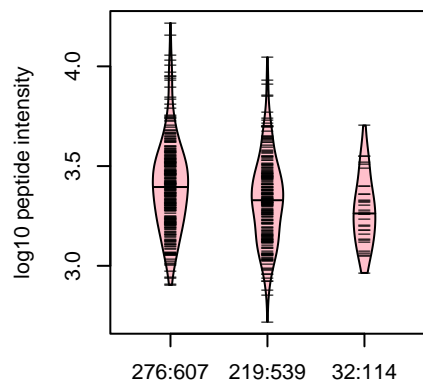
rs1056524
 $p = 2.7e-06$, $\beta = -0.44$, $N = 325$

STSIIMLTDGDANVGESRPEK pc3

rs1056524
 $p = 5.8e-06$, $\beta = -0.426$, $N = 325$

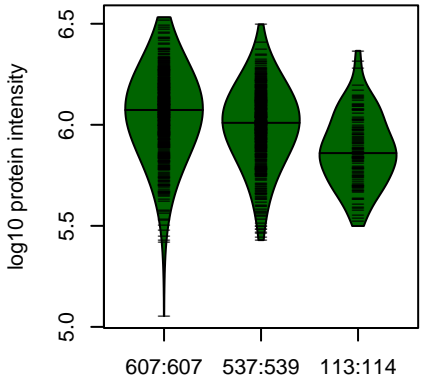
VTFELTYEELLK pc2

rs1056524
 $p = 7.1e-06$, $\beta = -0.422$, $N = 325$

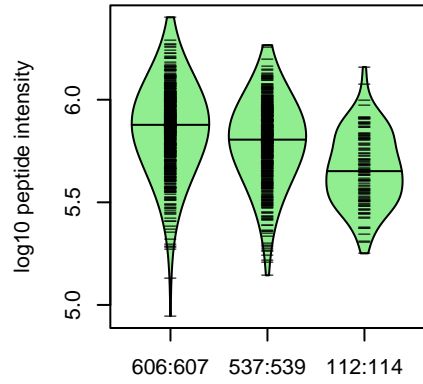
**EEDYLNFIILFSGDVSTWK pc3
rs3617 ALT**

3:126261202:G:A_A
 $p = 0.0019$, $\text{model} = \text{DOM}$, $N = 527$

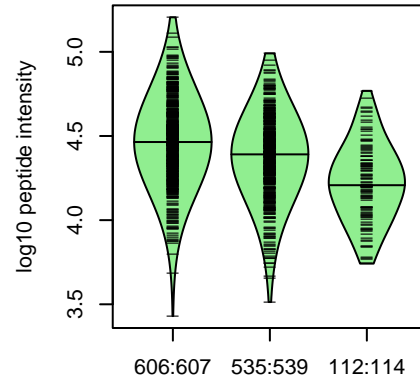
Locus: 13 (Sort: 16)
 Status: Replicated
 80% power: Yes
 SNP: 3:126261202:G:A
 rsID: rs1056524
 UniProtID: Q06033
 HGNC gene: ITIH3
 Type: Trans-pQTL

ITIH2 [trans]

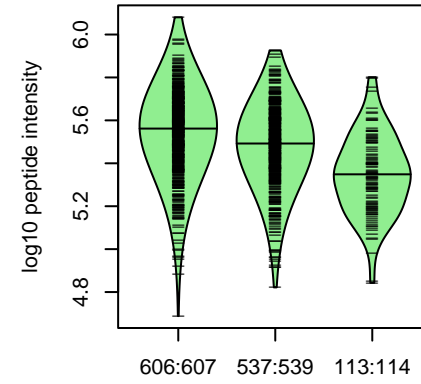
3:126261202:G:A_A
 $p = 2.9e-22$, $\beta = -0.414$, $N = 1257$

MATMIQSK pc2

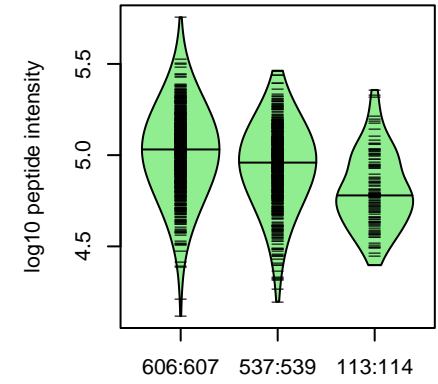
3:126261202:G:A_A
 $p = 2.6e-26$, $\beta = -0.452$, $N = 1255$

LSNENHGIAQR pc2

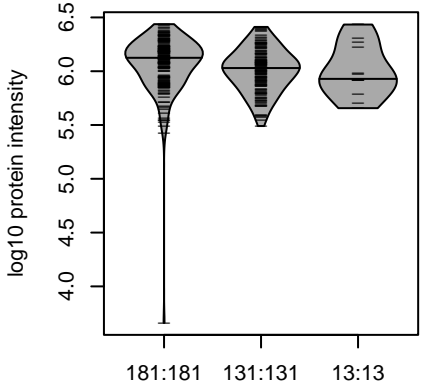
3:126261202:G:A_A
 $p = 9.6e-25$, $\beta = -0.438$, $N = 1253$

IYGNQDTSSQLK pc2

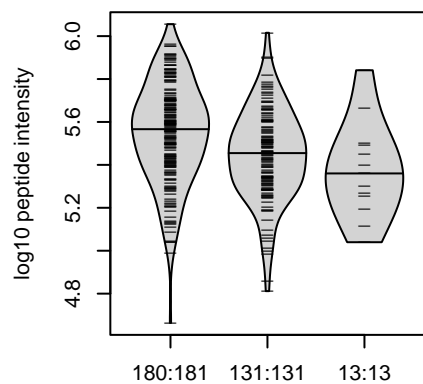
3:126261202:G:A_A
 $p = 1.3e-24$, $\beta = -0.436$, $N = 1256$

VQFELHYQEVK pc2

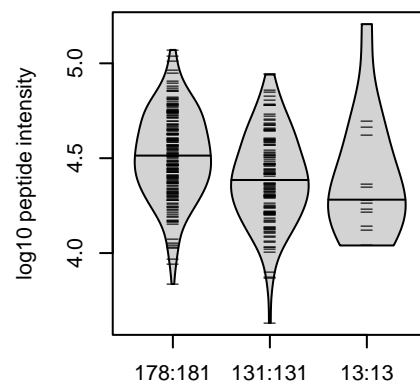
3:126261202:G:A_A
 $p = 3.6e-23$, $\beta = -0.422$, $N = 1256$

P19823 NP2

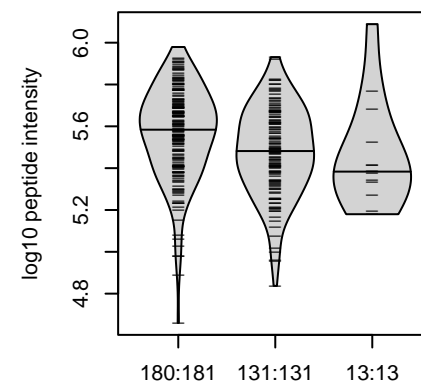
rs1056524
 $p = 0.0066$, $\beta = -0.262$, $N = 325$

HADPDFTR pc2

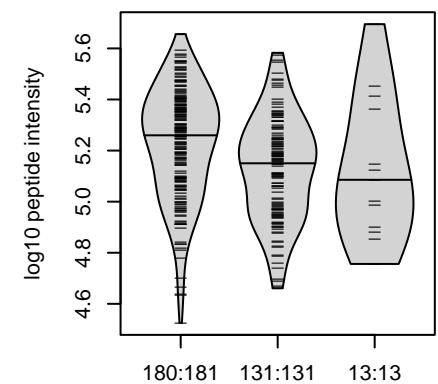
rs1056524
 $p = 1.8e-05$, $\beta = -0.404$, $N = 324$

LSNENHGIAQR pc2

rs1056524
 $p = 0.00014$, $\beta = -0.361$, $N = 322$

IYGNQDTSSQLK pc2

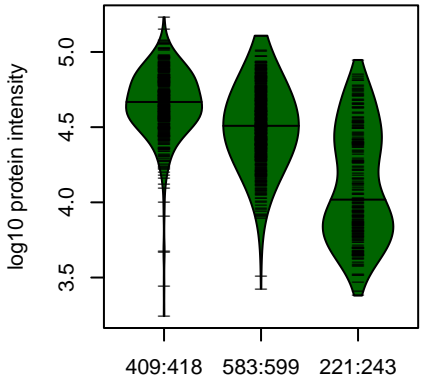
rs1056524
 $p = 0.00025$, $\beta = -0.346$, $N = 324$

TILDDLRAEDHFSVIDFNQIR pc4

rs1056524
 $p = 0.00029$, $\beta = -0.343$, $N = 324$

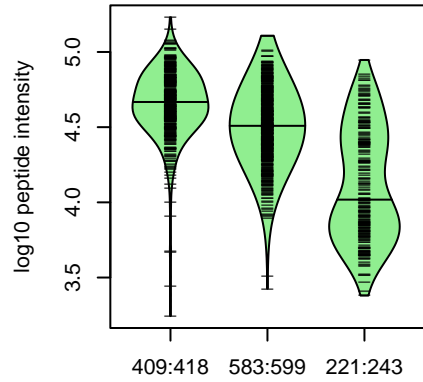
Locus: 13 (Sort: 17)
 Status: Not replicated
 80% power: Yes
 SNP: 3:126261202:G:A
 rsID: rs1056524
 UniProtID: P19823
 HGNC gene: ITIH2
 Type: Trans-pQTL

HLA-G [cis]



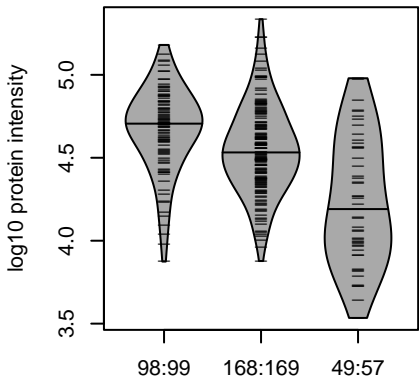
6:29916391:A:C_C
p = 3.2e-66, beta = -0.658, N = 1213

DYLALNEDLR pc2



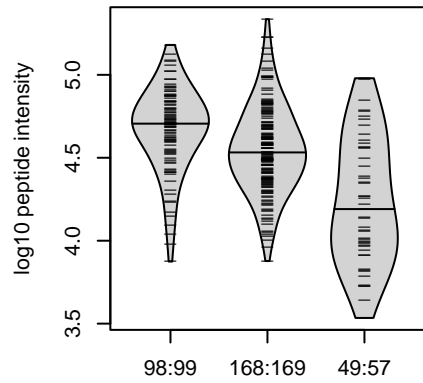
6:29916391:A:C_C
p = 3.2e-66, beta = -0.658, N = 1213

Q5RJ85 NP1



rs2517718
p = 1e-12, beta = -0.578, N = 315

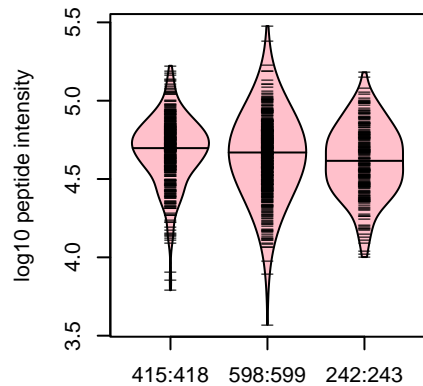
DYLALNEDLR pc2



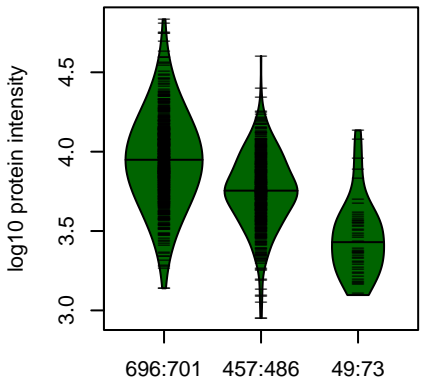
rs2517718
p = 6.4e-13, beta = -0.578, N = 315

Locus: 14 (Sort: 18)
Status: Replicated
80% power: Yes
SNP: 6:29916391:A:C
rsID: rs2517718
UniProtID: Q5RJ85
HGNC gene: HLA-G
Type: Cis-pQTL

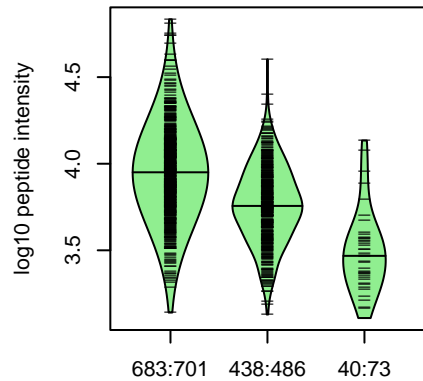
WAAVVPSGEEQR pc2 rs707908;rs1736924 ALT



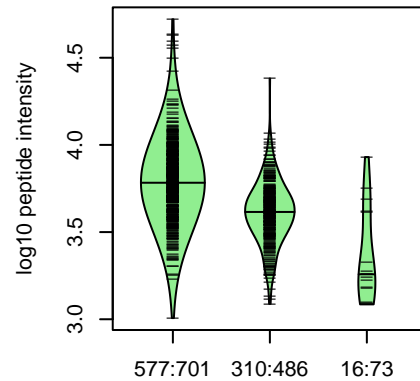
6:29916391:A:C_C
p = 0.34, model = REC, N = 1255

FUCA1 [trans]

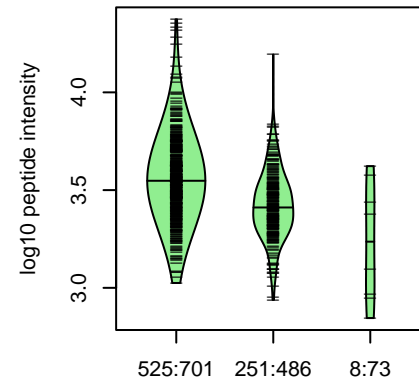
6:143825104:G:T_T
 $p = 1.3e-55$, $\beta = -0.747$, $N = 1202$

ITMLGIQGDLK pc2

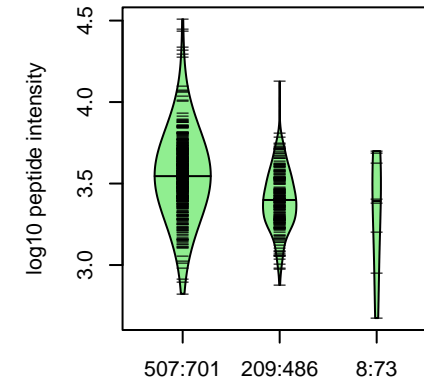
6:143825104:G:T_T
 $p = 2.5e-47$, $\beta = -0.719$, $N = 1161$

DLVGELGTALR pc2

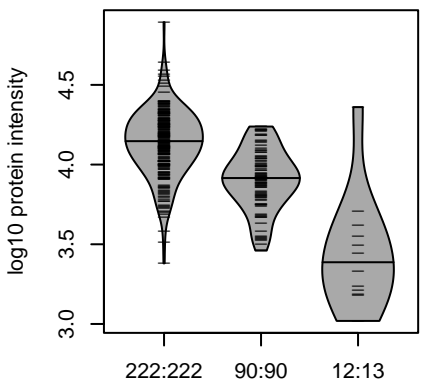
6:143825104:G:T_T
 $p = 1.9e-39$, $\beta = -0.798$, $N = 903$

WEMCTSIDK pc2

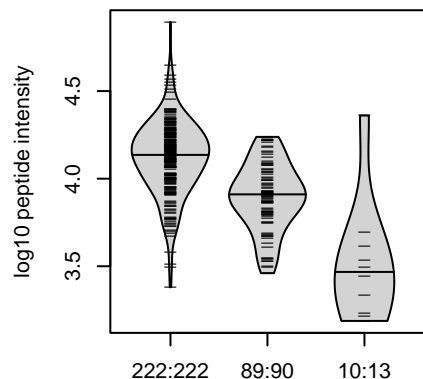
6:143825104:G:T_T
 $p = 5.5e-19$, $\beta = -0.623$, $N = 784$

DGLIVPIFQER pc2

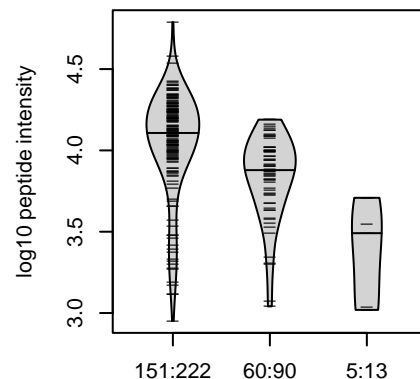
6:143825104:G:T_T
 $p = 1.4e-15$, $\beta = -0.594$, $N = 724$

P04066 NP5

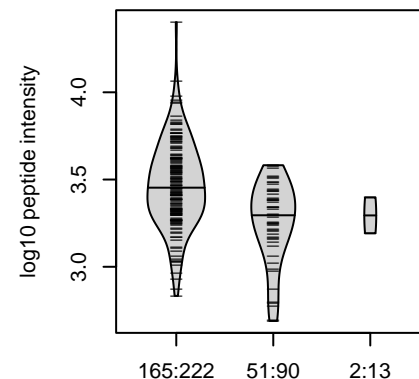
rs11155297
 $p = 3.9e-21$, $\beta = -0.878$, $N = 324$

DLVGELGTALR pc2

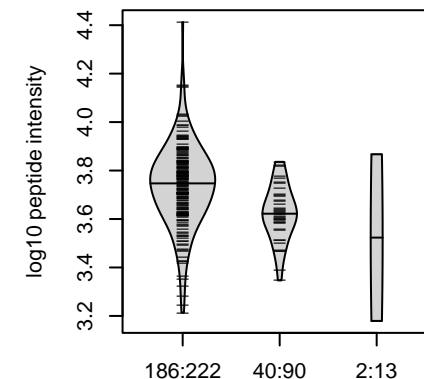
rs11155297
 $p = 6.5e-18$, $\beta = -0.839$, $N = 321$

ITMLGIQGDLK pc2

rs11155297
 $p = 2.1e-08$, $\beta = -0.703$, $N = 216$

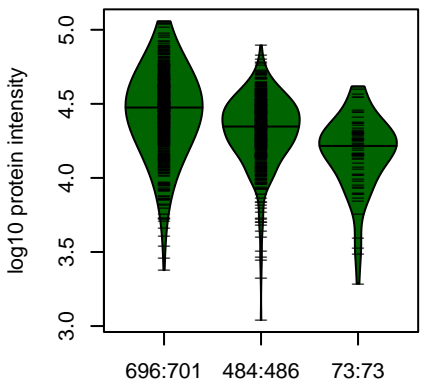
YVVLTTK pc2

rs11155297
 $p = 1.4e-07$, $\beta = -0.747$, $N = 218$

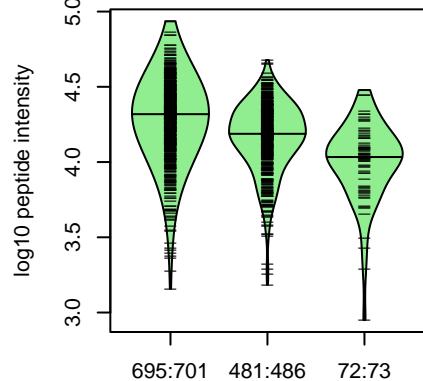
WEMCTSIDK pc2

rs11155297
 $p = 3.3e-05$, $\beta = -0.638$, $N = 228$

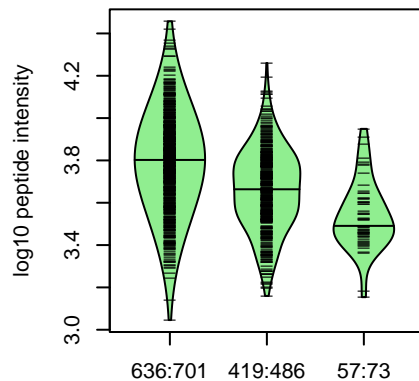
Locus: 15 (Sort: 19)
 Status: Replicated
 80% power: Yes
 SNP: 6:143825104:G:T
 rsID: rs11155297
 UniProtID: P04066
 HGNC gene: FUCA1
 Type: Trans-pQTL

FUCA2 [cis]

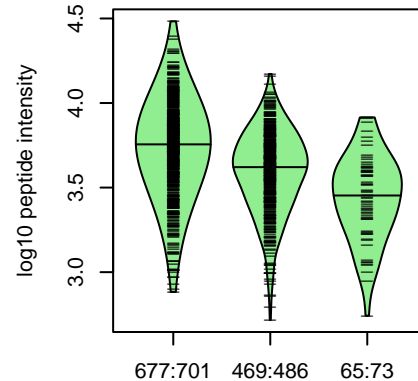
6:143825104:G:T_T
 $p = 7.3e-31$, $\beta = -0.523$, $N = 1253$

YEDFGPLFTAK pc2

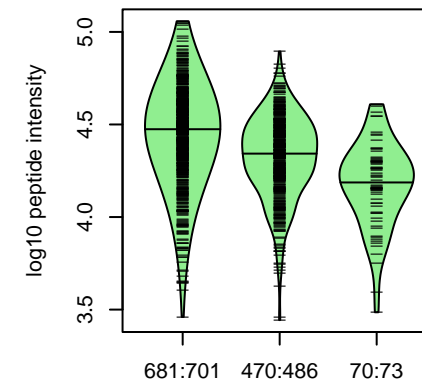
6:143825104:G:T_T
 $p = 5.9e-30$, $\beta = -0.517$, $N = 1248$

WENCMTIDK pc2

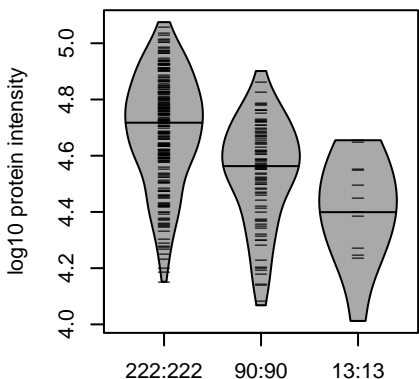
6:143825104:G:T_T
 $p = 1.6e-29$, $\beta = -0.552$, $N = 1112$

EAGISDYLTIEELVK pc2

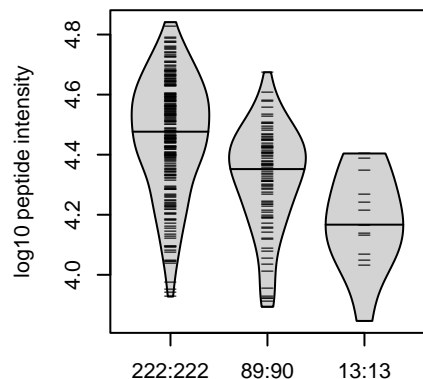
6:143825104:G:T_T
 $p = 4.4e-29$, $\beta = -0.522$, $N = 1211$

FDPTWESLDAR pc2

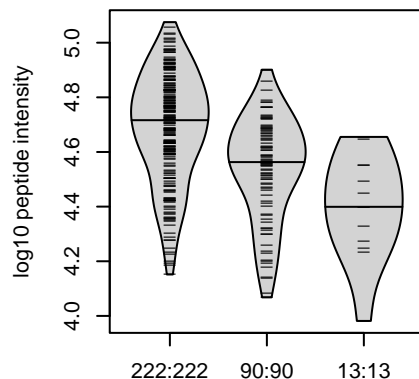
6:143825104:G:T_T
 $p = 1.2e-28$, $\beta = -0.511$, $N = 1221$

Q9BTY2 NP2

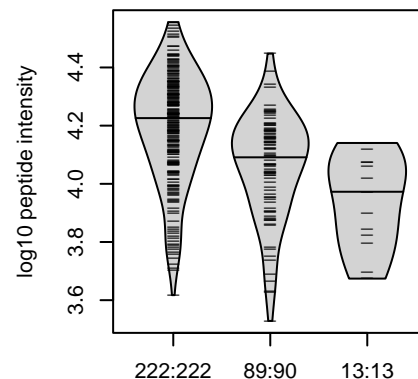
rs11155297
 $p = 6.9e-12$, $\beta = -0.651$, $N = 325$

QLPAWFDQAK pc2

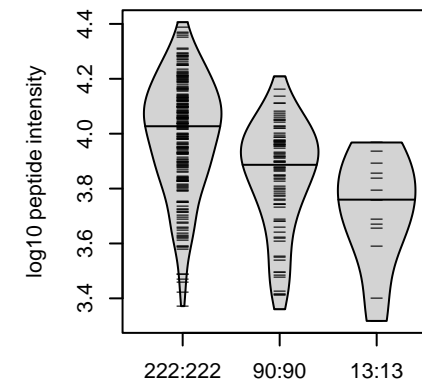
rs11155297
 $p = 9.2e-13$, $\beta = -0.678$, $N = 324$

FDPTWESLDAR pc2

rs11155297
 $p = 9.9e-12$, $\beta = -0.648$, $N = 325$

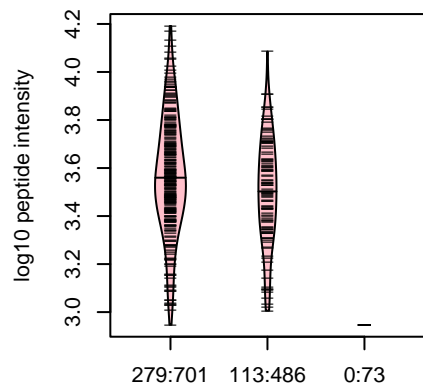
WPTSGQLFLGHPK pc3

rs11155297
 $p = 2.6e-11$, $\beta = -0.637$, $N = 324$

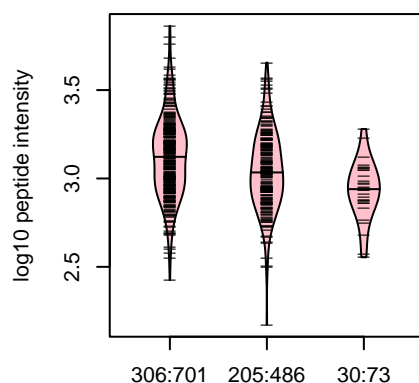
EAGISDYLTIEELVK pc2

rs11155297
 $p = 2.9e-11$, $\beta = -0.634$, $N = 325$

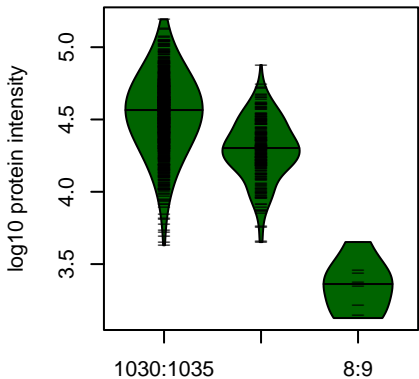
Locus: 15 (Sort: 20)
 Status: Replicated
 80% power: Yes
 SNP: 6:143825104:G:T
 rsID: rs11155297
 UniProtID: Q9BTY2
 HGNC gene: FUCA2
 Type: Cis-pQTL

**VNGEAIYETYWR pc2
rs3762001 ALT**

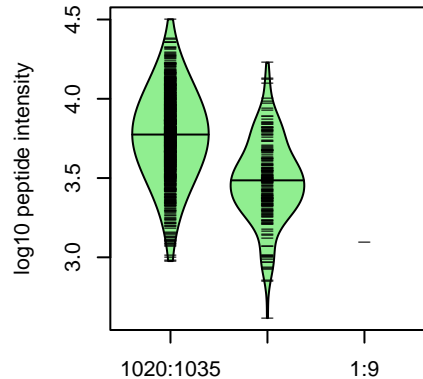
6:143825104:G:T_T
 $p = 5.6e-14$, $\text{model} = \text{REC}$, $N = 392$

**VNGEAIYETHWR pc2
rs3762001 REF**

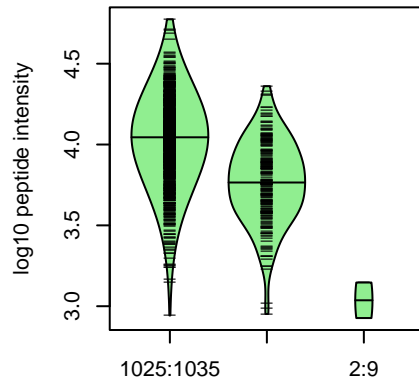
6:143825104:G:T_T
 $p = 0.57$, $\text{model} = \text{REC}$, $N = 541$

CTSH [cis]

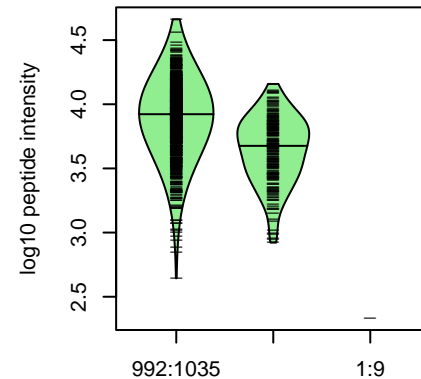
15:79237293:C:T_T
 $p = 3e-51$, $\beta = -1$, $N = 1253$

MALNQFSDMSFAEIK pc2

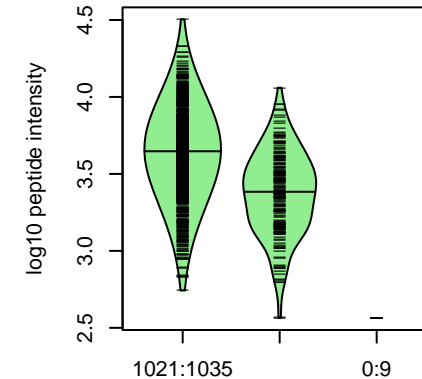
15:79237293:C:T_T
 $p = 6.4e-40$, $\beta = -0.964$, $N = 1226$

TGIYSTSCHK pc2

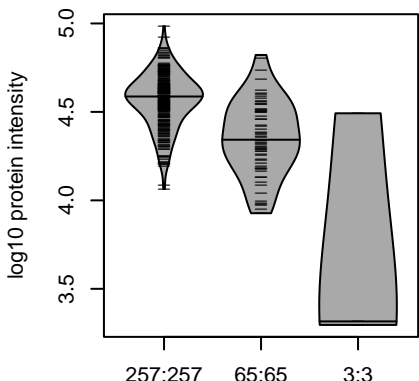
15:79237293:C:T_T
 $p = 3.7e-39$, $\beta = -0.931$, $N = 1240$

VQGACGSCWTFSTTGALESAIATGK

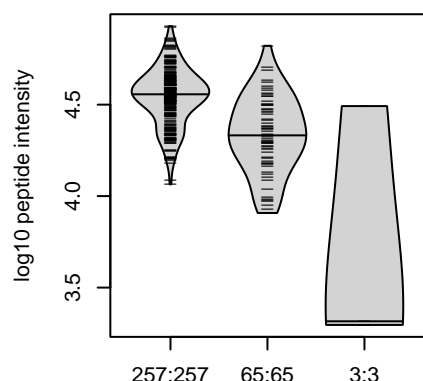
15:79237293:C:T_T
 $p = 2.5e-32$, $\beta = -0.879$, $N = 1193$

VNHAVLAVGYGEK pc2

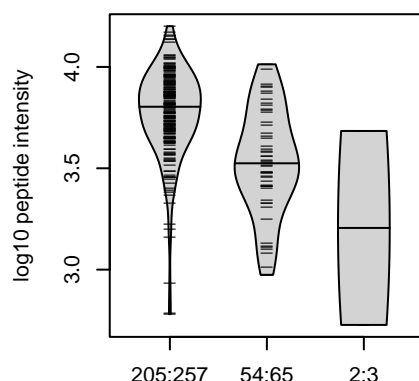
15:79237293:C:T_T
 $p = 8.6e-30$, $\beta = -0.845$, $N = 1224$

A0A087X0D5 NP3

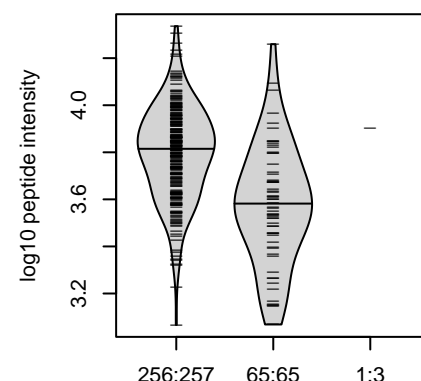
rs2289702
 $p = 2.9e-17$, $\beta = -0.996$, $N = 325$

VNHAVLAVGYGEK pc3

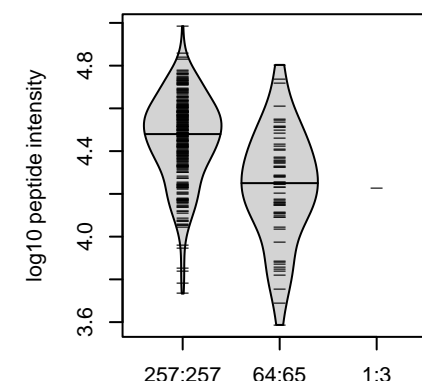
rs2289702
 $p = 6.8e-17$, $\beta = -0.998$, $N = 325$

VQGACGSCWTFSTTGALESAIATGK

rs2289702
 $p = 2.6e-12$, $\beta = -0.94$, $N = 261$

TGIYSTSCHK pc2

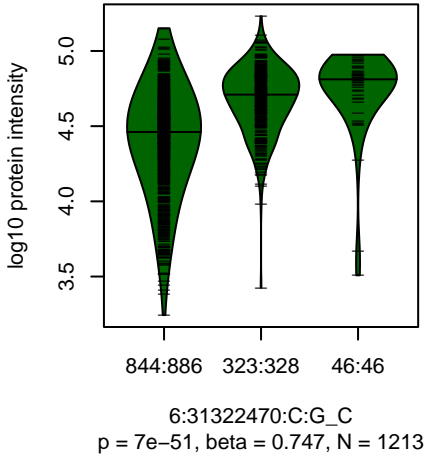
rs2289702
 $p = 4.9e-11$, $\beta = -0.847$, $N = 322$

NGIPYWIVK pc2

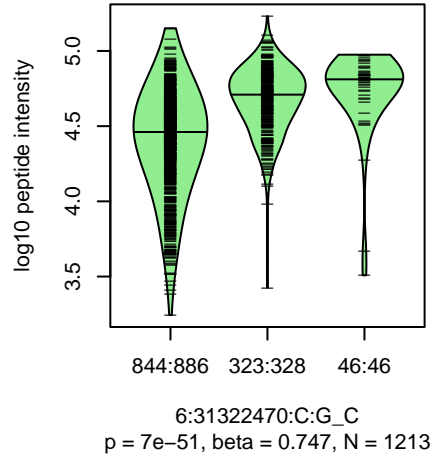
rs2289702
 $p = 1.7e-10$, $\beta = -0.829$, $N = 322$

Locus: 16 (Sort: 21)
 Status: Replicated
 80% power: Yes
 SNP: 15:79237293:C:T
 rsID: rs2289702
 UniProtID: A0A087X0D5
 HGNC gene: CTSH
 Type: Cis-pQTL

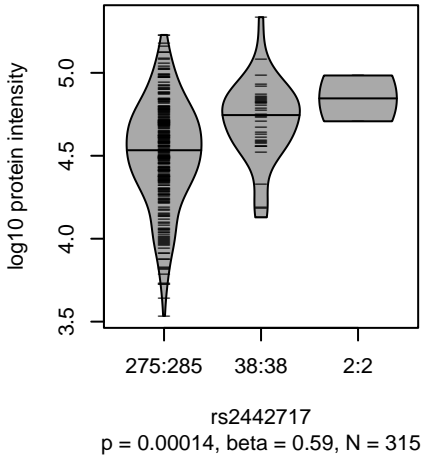
HLA-G [cis]



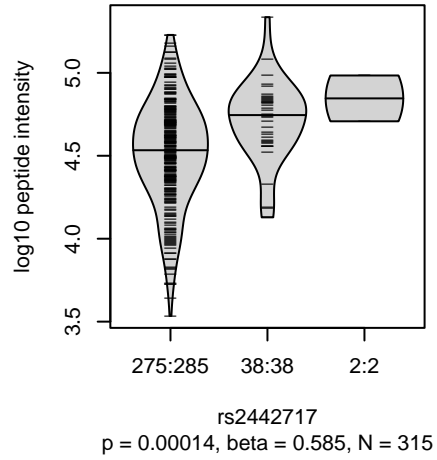
DYLALNEDLR pc2



Q5RJ85 NP1

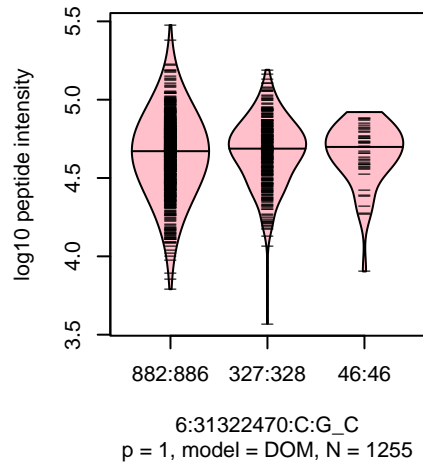


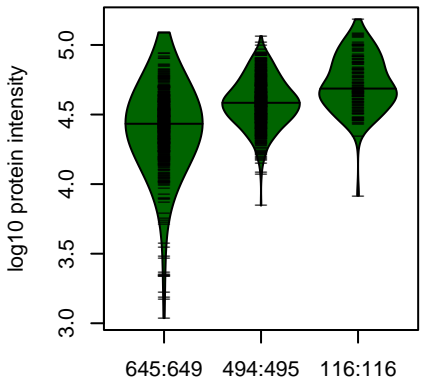
DYLALNEDLR pc2



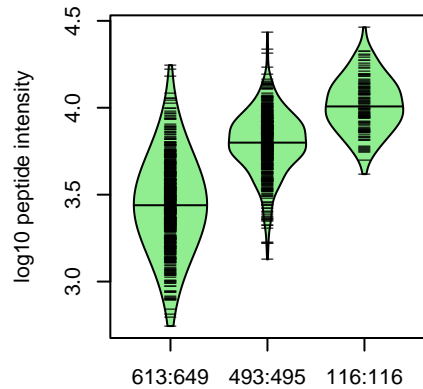
Locus: 17 (Sort: 22)
Status: Replicated
80% power: Yes
SNP: 6:31322470:C:G
rsID: rs2442717
UniProtID: Q5RJ85
HGNC gene: HLA-G
Type: Cis-pQTL

WAAVVPSGEEQR pc2 rs707908;rs1736924 ALT

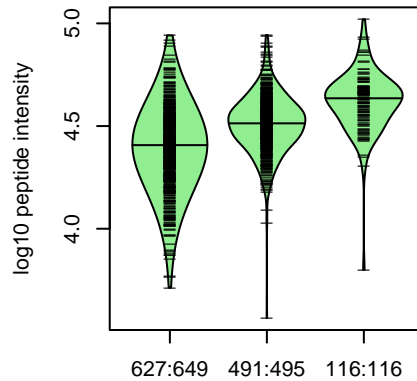


HLA-B [cis]

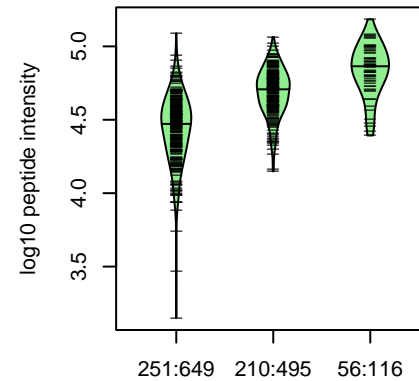
6:31242089:A:T_A
 $p = 1.5e-49$, $\beta = 0.609$, $N = 1255$

SWTAADTAAQITQR pc2

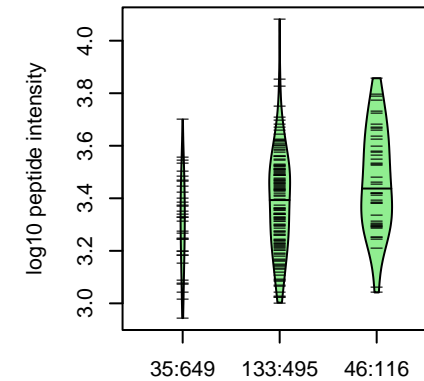
6:31242089:A:T_A
 $p = 2.3e-110$, $\beta = 0.877$, $N = 1222$

FDSAASPR pc2

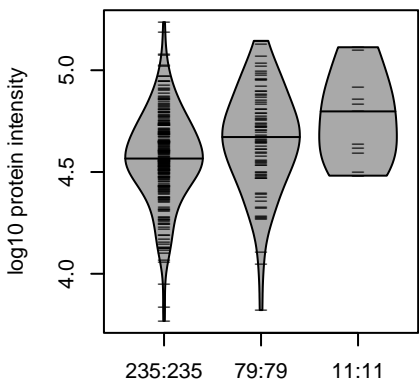
6:31242089:A:T_A
 $p = 3.1e-43$, $\beta = 0.573$, $N = 1234$

DYIALNEDLR pc2

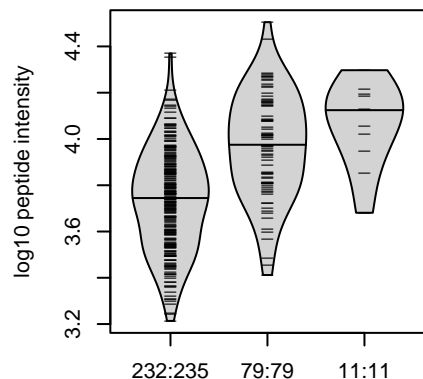
6:31242089:A:T_A
 $p = 2.8e-33$, $\beta = 0.729$, $N = 517$

AQAQTDRESLR pc3

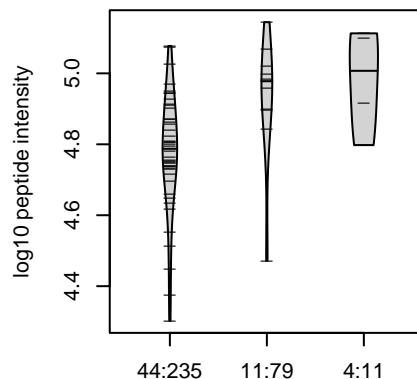
6:31242089:A:T_A
 $p = 8.9e-05$, $\beta = 0.422$, $N = 214$

P01889 NP2

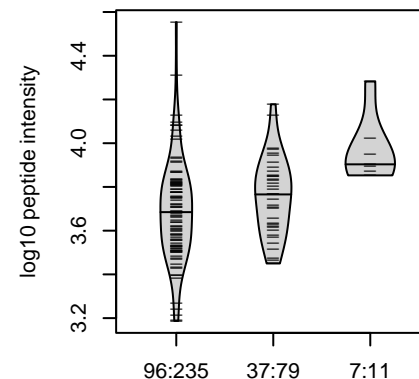
rs2524080
 $p = 4e-04$, $\beta = 0.361$, $N = 325$

SWTAADTAAQITQR pc2

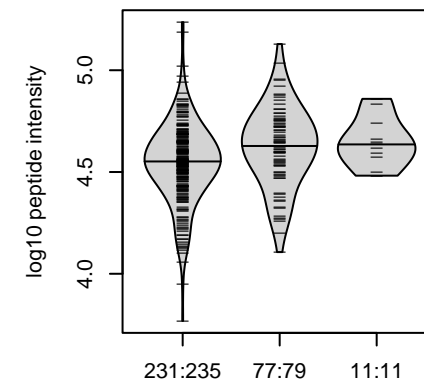
rs2524080
 $p = 2e-16$, $\beta = 0.807$, $N = 322$

DYIALNEDLR pc2

rs2524080
 $p = 0.00041$, $\beta = 0.704$, $N = 59$

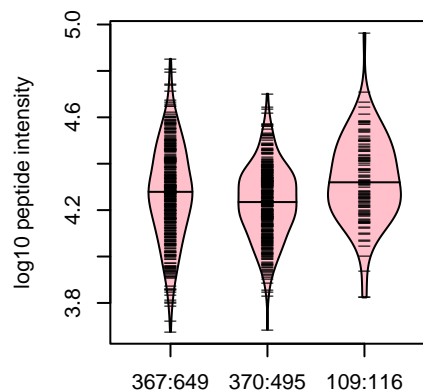
APWIEQEGPEYWDR pc2

rs2524080
 $p = 0.002$, $\beta = 0.437$, $N = 140$

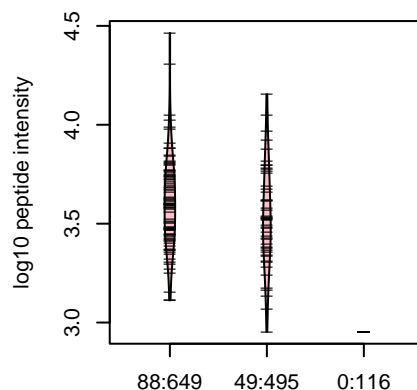
FDSAASPR pc2

rs2524080
 $p = 0.0028$, $\beta = 0.309$, $N = 319$

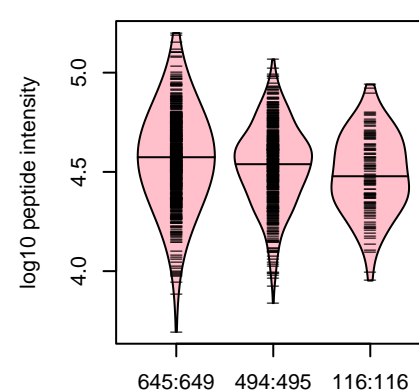
Locus: 18 (Sort: 23)
 Status: Not replicated
 80% power: Yes
 SNP: 6:31242089:A:T
 rsID: rs2524080
 UniProtID: P01889
 HGNC gene: HLA-B
 Type: Cis-pQTL

**FISVGYVDDTQFVR pc2
rs1050437 REF**

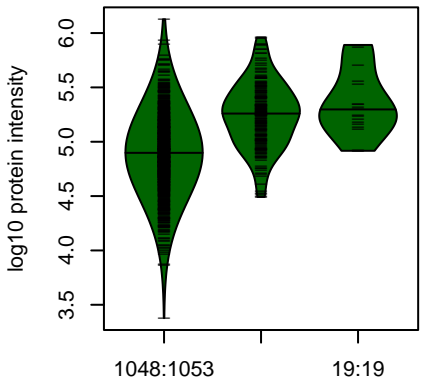
6:31242089:A:T_A
 $p = 1.3e-16$, model = REC, $N = 846$

**GEPRFISVGYVDDTQFVR pc3
rs1050437 REF**

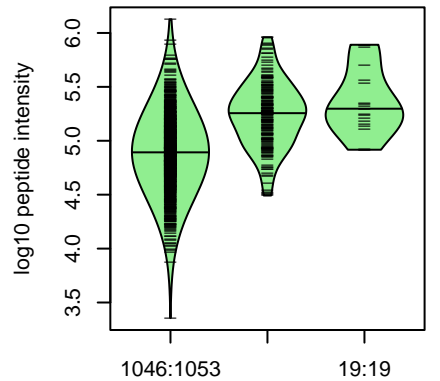
6:31242089:A:T_A
 $p = 1.1e-06$, model = DOM, $N = 137$

**WAAVVVPSGEEQR pc2
rs707908;rs1736924 ALT**

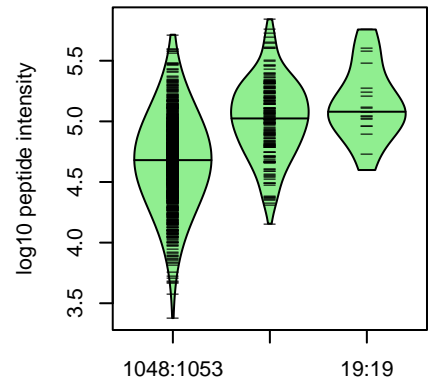
6:31242089:A:T_A
 $p = 0.38$, model = REC, $N = 1255$

PEBP4 [cis]

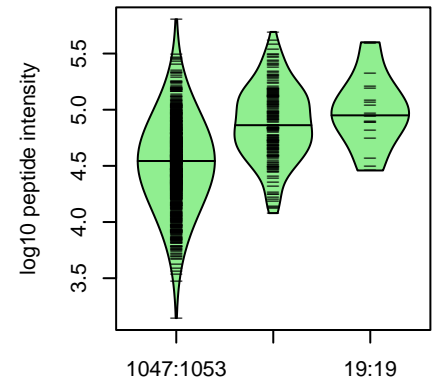
8:22570901:C:T_T
 $p = 2.4e-47$, $\beta = 0.925$, $N = 1255$

VVPDCNNYR pc2

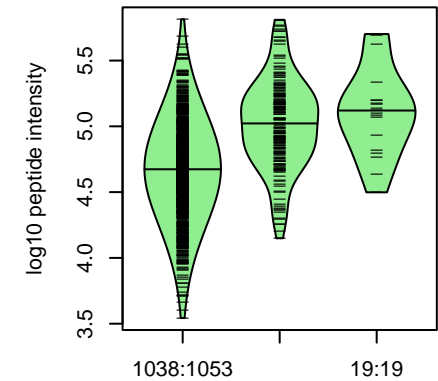
8:22570901:C:T_T
 $p = 1.3e-47$, $\beta = 0.927$, $N = 1253$

ITSWMEPIVK pc2

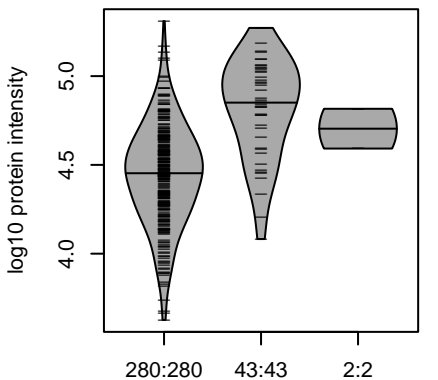
8:22570901:C:T_T
 $p = 2.5e-44$, $\beta = 0.896$, $N = 1255$

YQFFVYLQEGK pc2

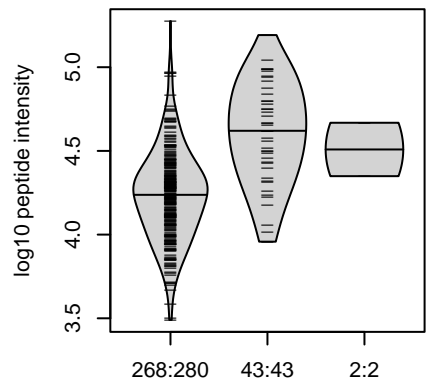
8:22570901:C:T_T
 $p = 8.5e-42$, $\beta = 0.871$, $N = 1254$

IQGQELSAYQAPSPPAHSGFHR pc2

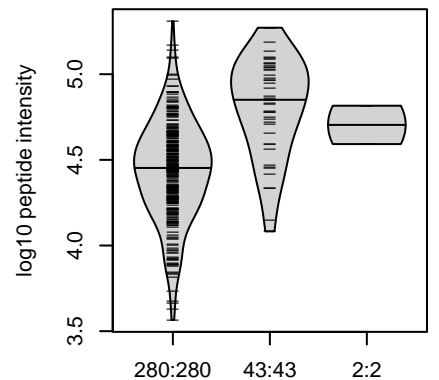
8:22570901:C:T_T
 $p = 5.3e-41$, $\beta = 0.864$, $N = 1244$

Q96S96 NP3

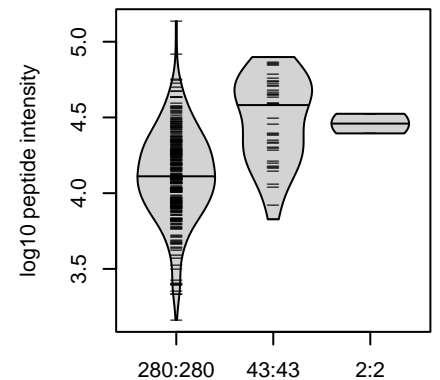
rs3087803
 $p = 3.9e-12$, $\beta = 0.987$, $N = 325$

VVPDCNNYR pc2

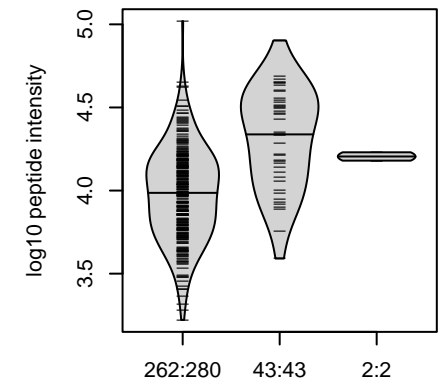
rs3087803
 $p = 1.8e-12$, $\beta = 1.01$, $N = 313$

ITSWMEPIVK pc2

rs3087803
 $p = 1.1e-11$, $\beta = 0.975$, $N = 325$

YQFFVYLQEGK pc2

rs3087803
 $p = 2.2e-11$, $\beta = 0.962$, $N = 325$

HWLVTDIK pc2

rs3087803
 $p = 1.1e-09$, $\beta = 0.883$, $N = 307$

Locus: 19 (Sort: 24)

Status: Replicated

80% power: Yes

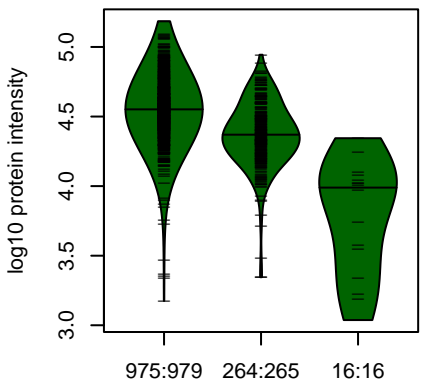
SNP: 8:22570901:C:T

rsID: rs3087803

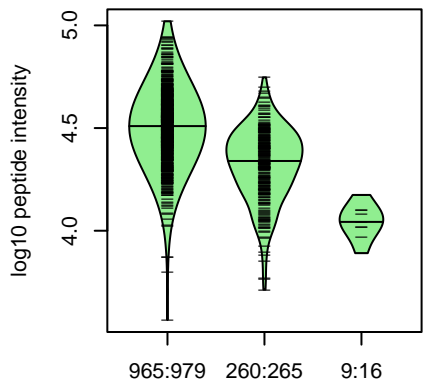
UniProtID: Q96S96

HGNC gene: PEBP4

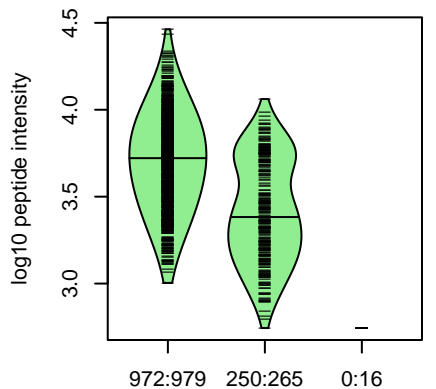
Type: Cis-pQTL

HLA-B [cis]

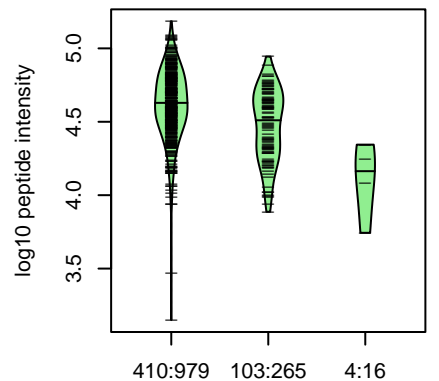
6:31236900:G:A_A
 $p = 5.2e-46$, $\beta = -0.848$, $N = 1255$

FDSAASPR pc2

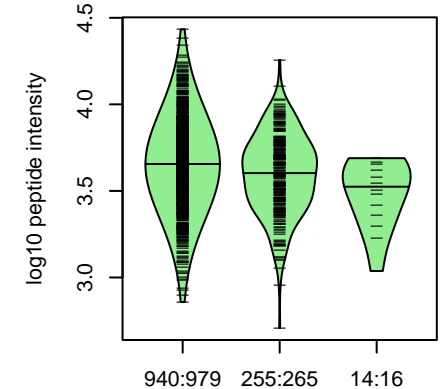
6:31236900:G:A_A
 $p = 1.5e-55$, $\beta = -0.975$, $N = 1234$

SWTAADTAAQITQR pc2

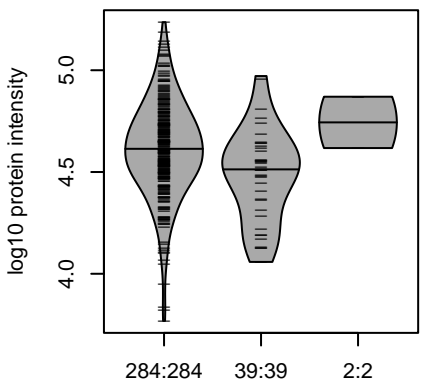
6:31236900:G:A_A
 $p = 7e-47$, $\beta = -0.974$, $N = 1222$

DYIALNEDLR pc2

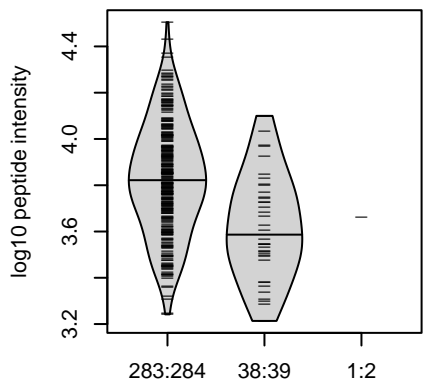
6:31236900:G:A_A
 $p = 1.9e-11$, $\beta = -0.668$, $N = 517$

DGEDTQDTELVETRPAGDR pc3

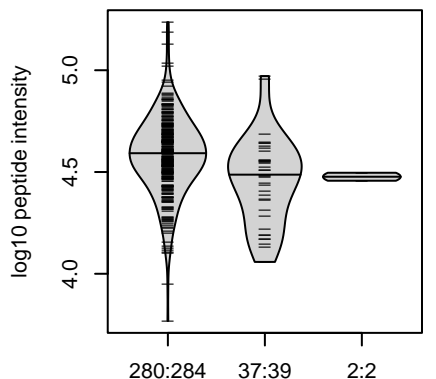
6:31236900:G:A_A
 $p = 0.00046$, $\beta = -0.223$, $N = 1209$

P01889 NP2

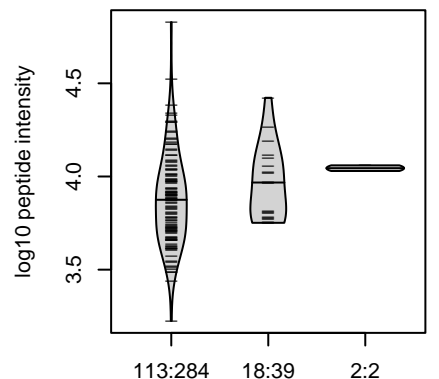
rs1049853
 $p = 0.014$, $\beta = -0.376$, $N = 325$

SWTAADTAAQITQR pc2

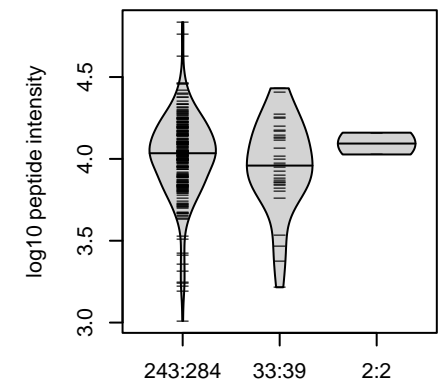
rs1049853
 $p = 7.9e-06$, $\beta = -0.714$, $N = 322$

FDSAASPR pc2

rs1049853
 $p = 0.00019$, $\beta = -0.579$, $N = 319$

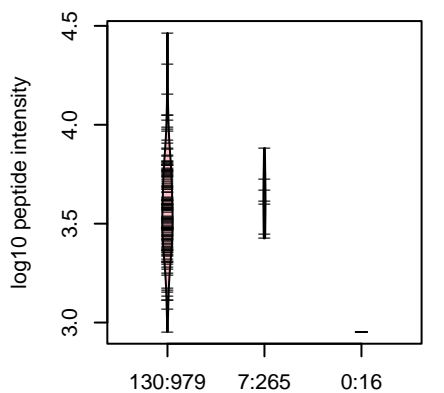
THVTHHPISDHEATLR pc4

rs1049853
 $p = 0.14$, $\beta = 0.307$, $N = 133$

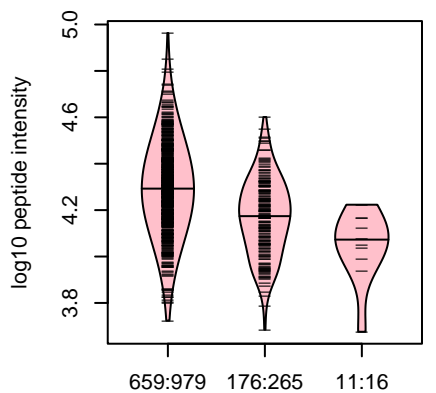
DGEDTQDTELVETRPAGDR pc3

rs1049853
 $p = 0.17$, $\beta = -0.224$, $N = 278$

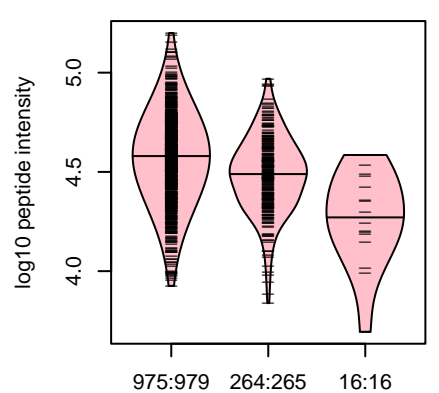
Locus: 20 (Sort: 25)
 Status: Not replicated
 80% power: Yes
 SNP: 6:31236900:G:A
 rsID: rs1049853
 UniProtID: P01889
 HGNC gene: HLA-B
 Type: Cis-pQTL

**GEPRFISGVYDDTQFVR pc3
rs1050437 REF**

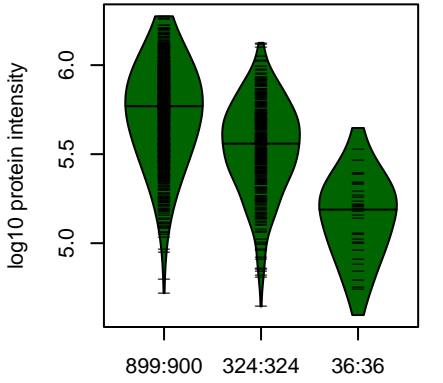
6:31236900:G:A_A
 $p = 1.3e-08$, model = REC, $N = 137$

**FISGVYDDTQFVR pc2
rs1050437 REF**

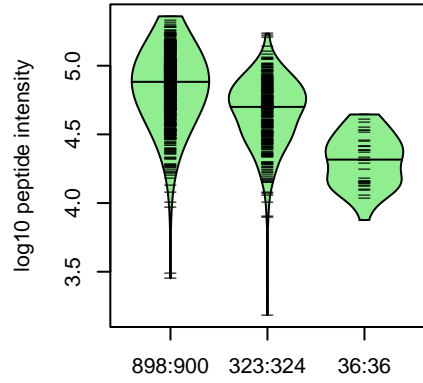
6:31236900:G:A_A
 $p = 0.83$, model = REC, $N = 846$

**WAAVVVPSGEEQR pc2
rs707908;rs1736924 ALT**

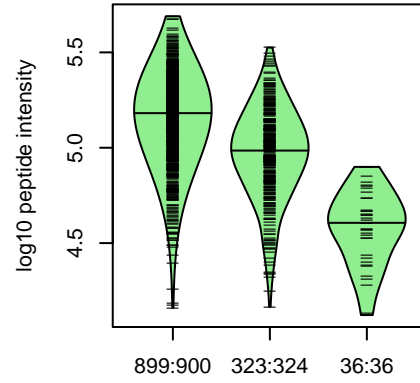
6:31236900:G:A_A
 $p = 1$, model = DOM, $N = 1255$

CFB [cis]

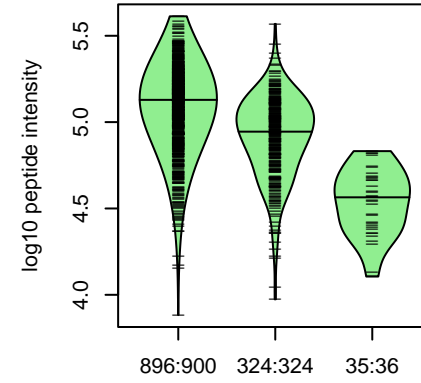
6:31947086:G:A_A
 $p = 7.9e-44$, $\beta = -0.718$, $N = 1259$

LEDSVTYHCSR pc3

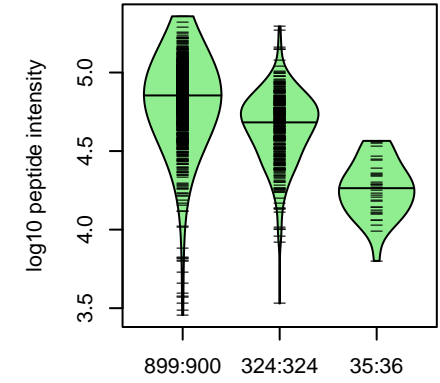
6:31947086:G:A_A
 $p = 5.5e-48$, $\beta = -0.751$, $N = 1257$

STGSWSTLK pc2

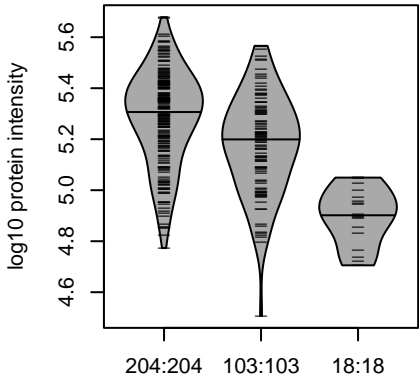
6:31947086:G:A_A
 $p = 2.2e-45$, $\beta = -0.731$, $N = 1258$

LPPTTTCQQQK pc2

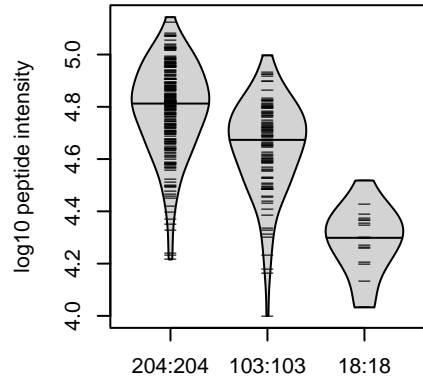
6:31947086:G:A_A
 $p = 2.5e-44$, $\beta = -0.726$, $N = 1255$

QLNEINYEDHK pc3

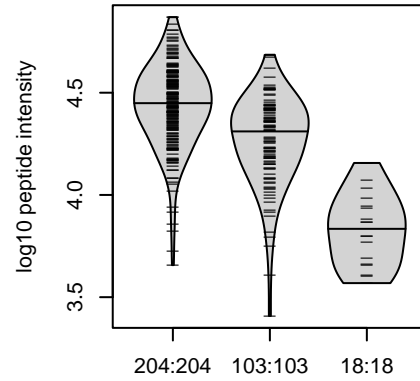
6:31947086:G:A_A
 $p = 2.6e-44$, $\beta = -0.725$, $N = 1258$

B4E1Z4 NP4

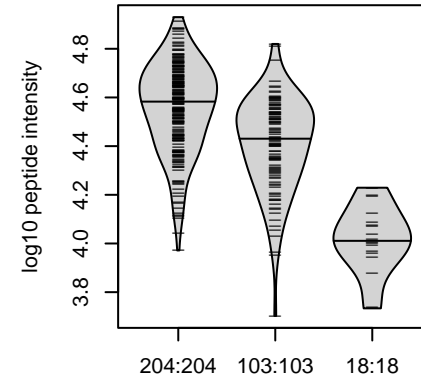
rs391165
 $p = 3.3e-15$, $\beta = -0.697$, $N = 325$

VSEADSSNADWVTK pc2

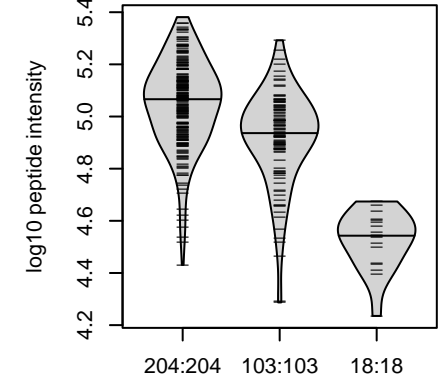
rs391165
 $p = 1e-24$, $\beta = -0.872$, $N = 325$

LEDSVTYHCSR pc2

rs391165
 $p = 1.4e-24$, $\beta = -0.87$, $N = 325$

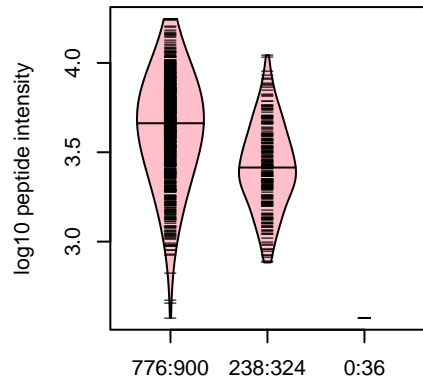
QLNEINYEDHK pc2

rs391165
 $p = 2.2e-24$, $\beta = -0.866$, $N = 325$

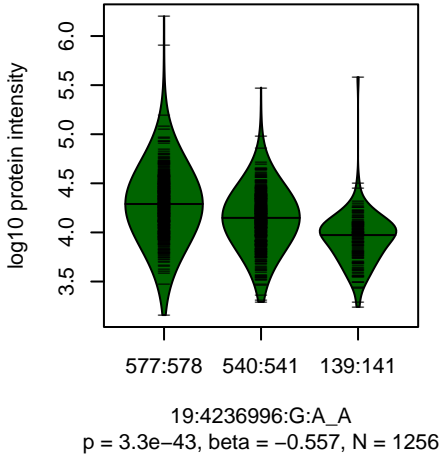
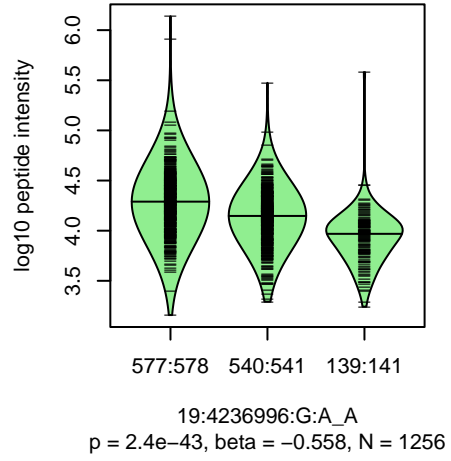
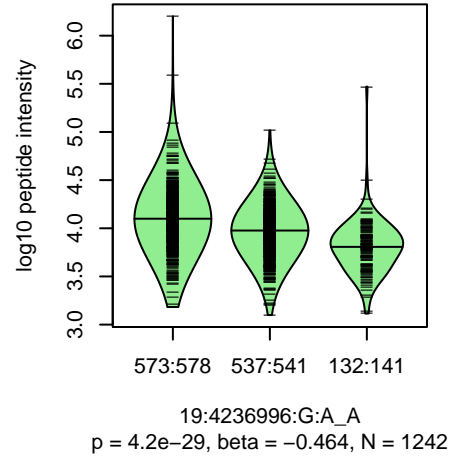
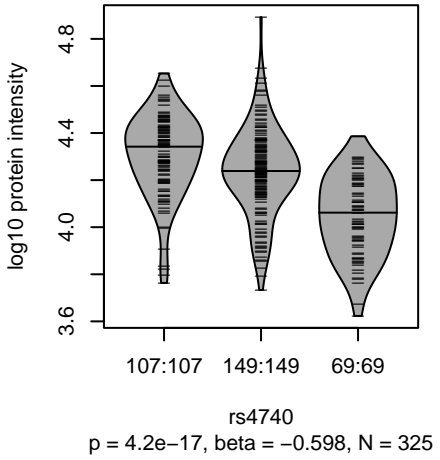
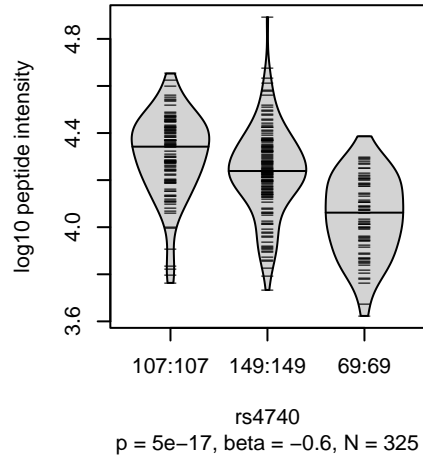
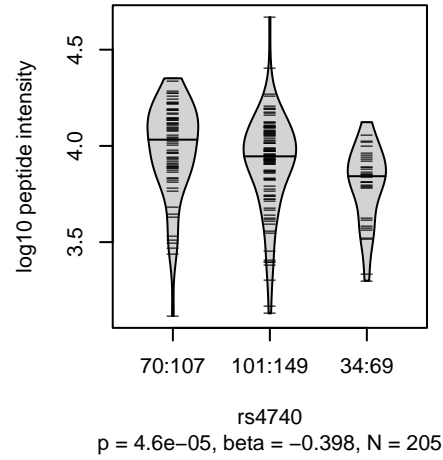
LPPTTTCQQQK pc2

rs391165
 $p = 2e-23$, $\beta = -0.851$, $N = 325$

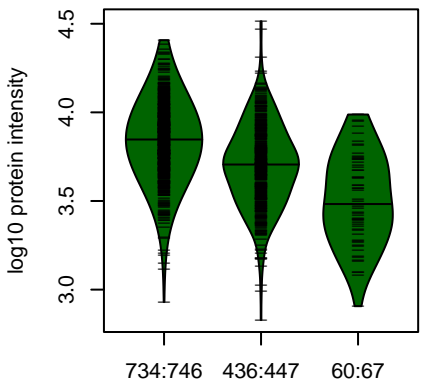
Locus: 21 (Sort: 26)
 Status: Replicated
 80% power: Yes
 SNP: 6:31947086:G:A
 rsID: rs391165
 UniProtID: B4E1Z4
 HGNC gene: CFB
 Type: Cis-pQTL

**PQGSCSLEGVEIK pc2
rs12614;rs641153 REF**

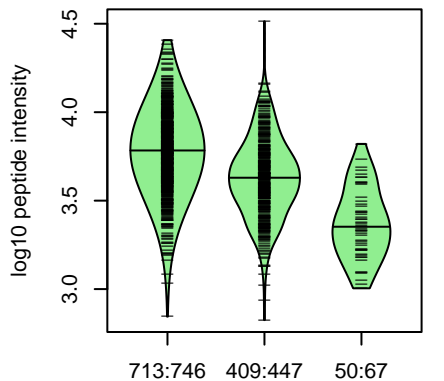
6:31947086:G:A_A
 $p = 3.2e-27$, $\text{model} = \text{DOM}$, $N = 1014$

EBI3 [cis]**VGPIEATSFILR pc2****GPPAALTLPK pc2****Q14213 NP4****VGPIEATSFILR pc2****GPPAALTLPK pc2**

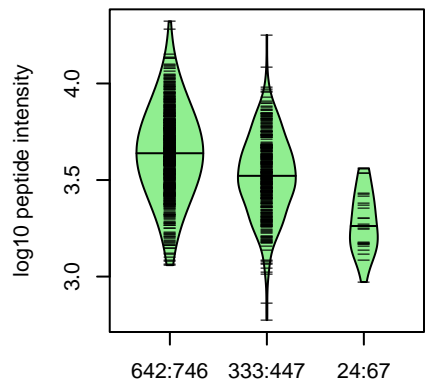
Locus: 22 (Sort: 27)
 Status: Replicated
 80% power: Yes
 SNP: 19:4236996:G:A
 rsID: rs4740
 UniProtID: Q14213
 HGNC gene: EBI3
 Type: Cis-pQTL

ERAP1 [cis]

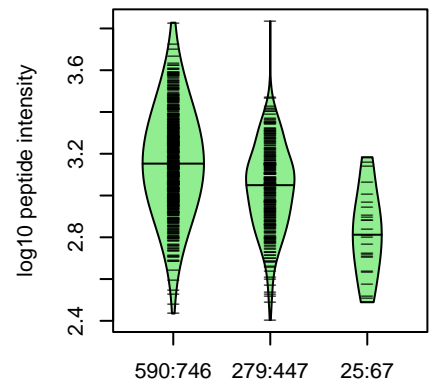
5:96147733:A:G_G
 $p = 8.4e-43$, $\beta = -0.638$, $N = 1230$

GFPLITIVR pc2

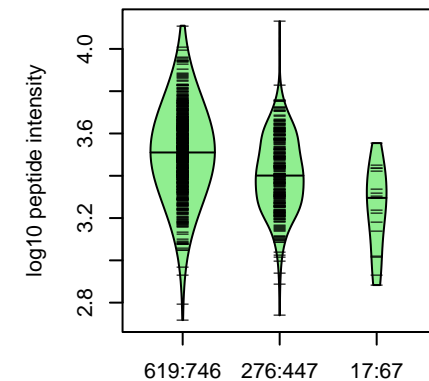
5:96147733:A:G_G
 $p = 2.4e-48$, $\beta = -0.706$, $N = 1172$

TDVLILPEEVEWIK pc2

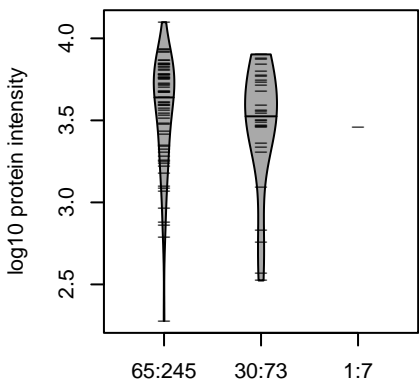
5:96147733:A:G_G
 $p = 5.5e-25$, $\beta = -0.594$, $N = 999$

ASLINNAFQLVLSIGK pc2

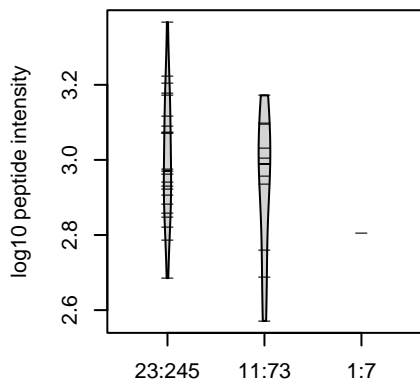
5:96147733:A:G_G
 $p = 9.9e-25$, $\beta = -0.618$, $N = 894$

LQWLLDESFK pc2

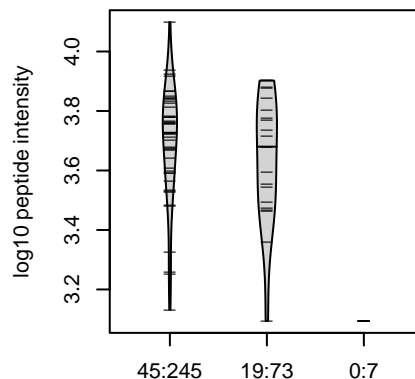
5:96147733:A:G_G
 $p = 3.9e-19$, $\beta = -0.563$, $N = 912$

Q9NZ08 NP5

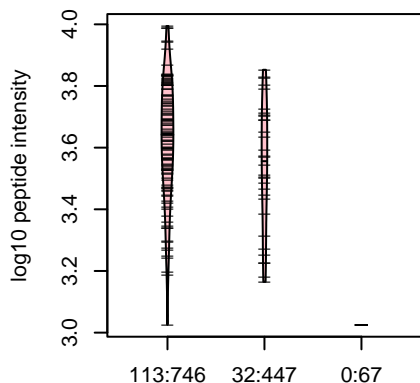
rs10045403
 $p = 0.28$, $\beta = -0.217$, $N = 96$

GFPLITIVR pc2

rs10045403
 $p = 0.24$, $\beta = -0.344$, $N = 35$

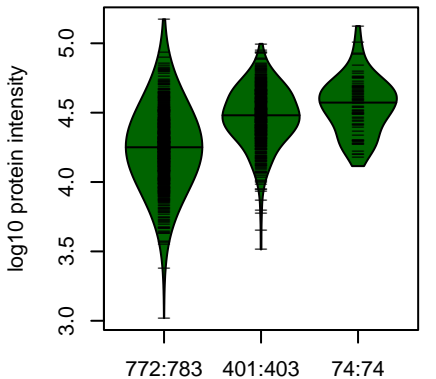
EYLSADAFK pc2

rs10045403
 $p = 0.35$, $\beta = -0.246$, $N = 64$

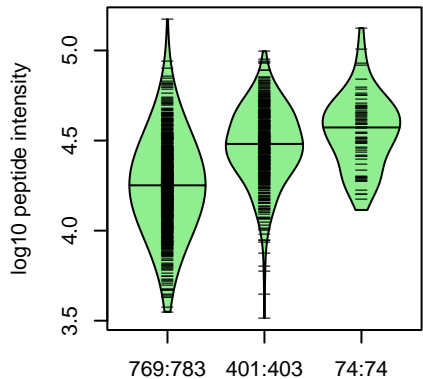
**LSEEPLQVLEHPR pc3
rs26653 REF**

5:96147733:A:G_G
 $p = 6.1e-07$, $\text{model} = \text{REC}$, $N = 145$

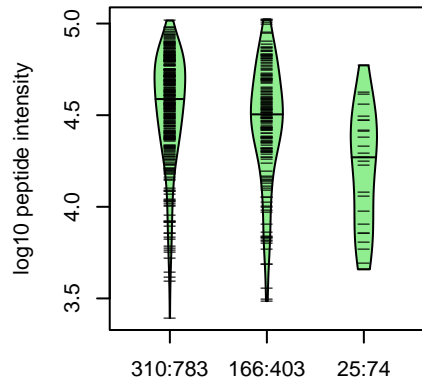
Locus: 23 (Sort: 28)
 Status: Not replicated
 80% power: No
 SNP: 5:96147733:A:G
 rsID: rs10045403
 UniProtID: Q9NZ08
 HGNC gene: ERAP1
 Type: Cis-pQTL

HLA-A [cis]

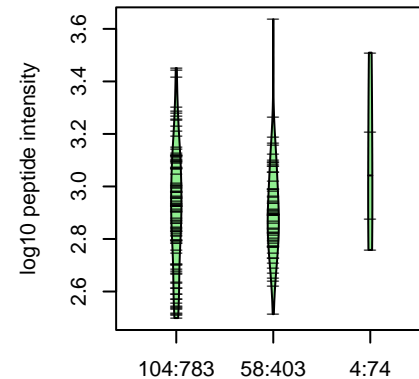
6:31321425:G:A_A
 $p = 2.3e-41$, $\beta = 0.607$, $N = 1247$

FIAGYVDDTQFVR pc2

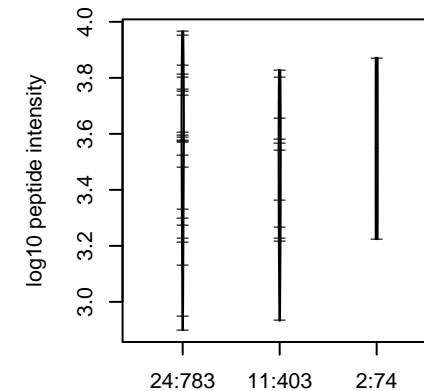
6:31321425:G:A_A
 $p = 1.4e-40$, $\beta = 0.601$, $N = 1244$

DYIALNEDLR pc2

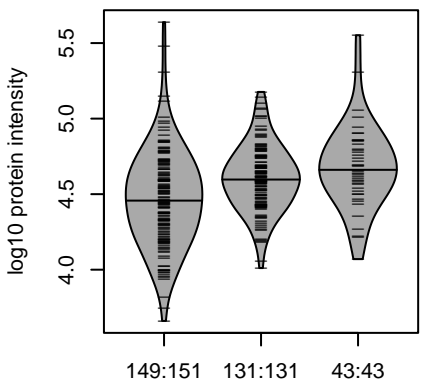
6:31321425:G:A_A
 $p = 0.0024$, $\beta = -0.228$, $N = 501$

THMTHHPISDHEATLR pc3

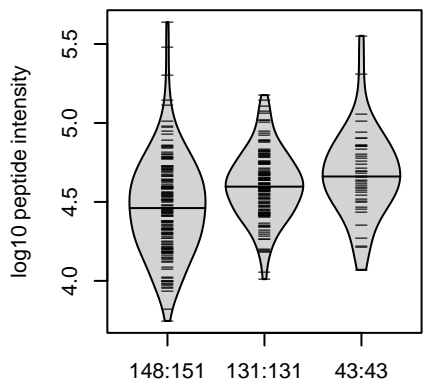
6:31321425:G:A_A
 $p = 0.44$, $\beta = 0.109$, $N = 166$

AYLDGTCVEWLR pc2

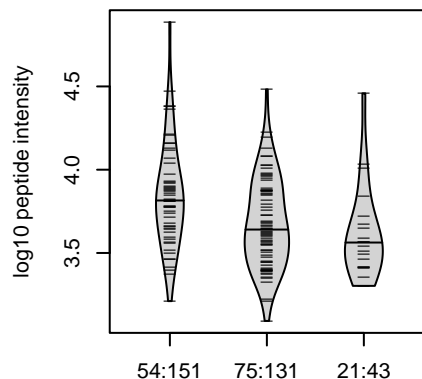
6:31321425:G:A_A
 $p = 0.47$, $\beta = -0.19$, $N = 37$

Q5SRN5 NP1

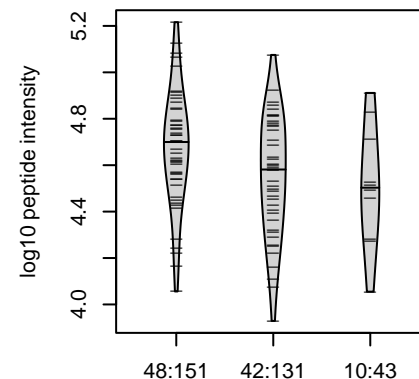
rs9378247
 $p = 3.5e-06$, $\beta = 0.358$, $N = 323$

FIAGYVDDTQFVR pc2

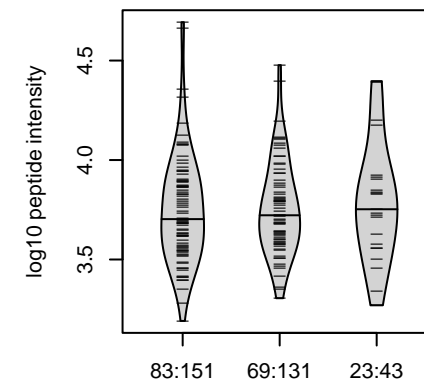
rs9378247
 $p = 6.1e-06$, $\beta = 0.351$, $N = 322$

THMTHHPISDHEATLR pc4

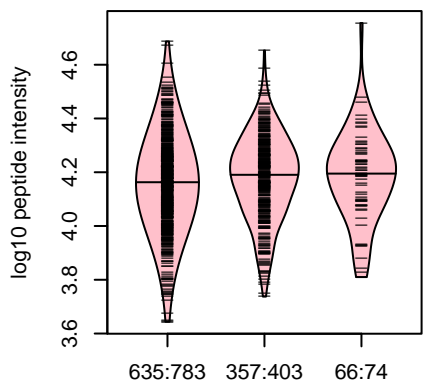
rs9378247
 $p = 0.00054$, $\beta = -0.403$, $N = 150$

DYIALNEDLR pc2

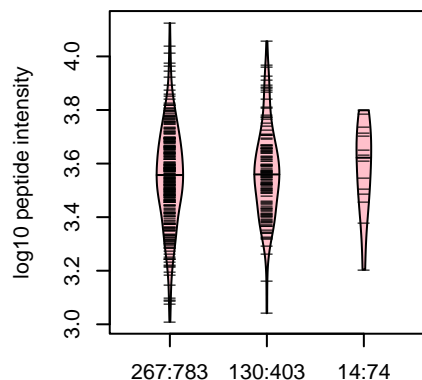
rs9378247
 $p = 0.0039$, $\beta = -0.416$, $N = 100$

YTCHVQHEGLPK pc3

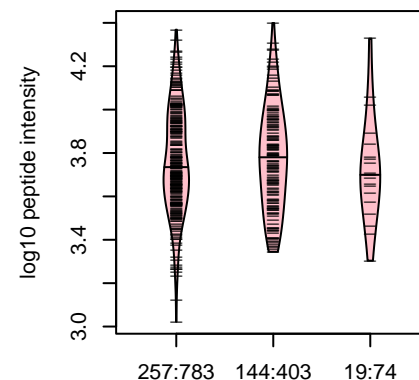
rs9378247
 $p = 0.58$, $\beta = 0.0591$, $N = 175$

**FSDAASQR pc2
rs707910 REF**

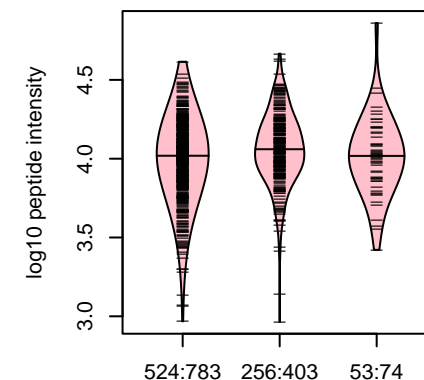
6:31321425:G:A_A
 $p = 0.00035$, $\text{model} = \text{REC}$, $N = 1058$

**SWTAADMAAQITQR pc2
rs1059517 ALT**

6:31321425:G:A_A
 $p = 0.01$, $\text{model} = \text{DOM}$, $N = 411$

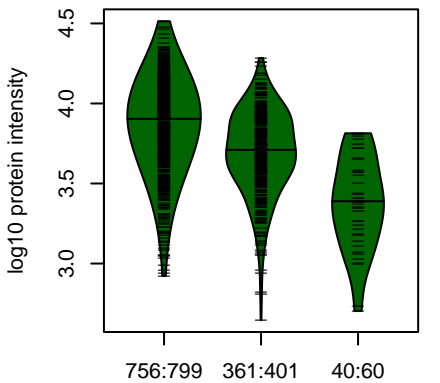
**AQSQTDRVDLGLTLR pc3
rs1071742;rs199474457 REF**

6:31321425:G:A_A
 $p = 0.16$, $\text{model} = \text{DOM}$, $N = 420$

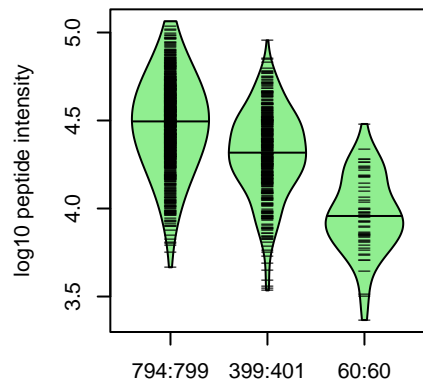
**SWTAADMAAQITK pc2
rs1059517 REF**

6:31321425:G:A_A
 $p = 0.38$, $\text{model} = \text{DOM}$, $N = 833$

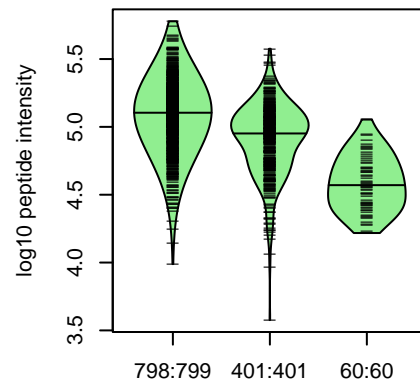
Locus: 24 (Sort: 29)
 Status: Replicated
 80% power: Yes
 SNP: 6:31321425:G:A
 rsID: rs9378247
 UniProtID: Q5SRN5
 HGNC gene: HLA-A
 Type: Cis-pQTL

PGLYRP2 [cis]

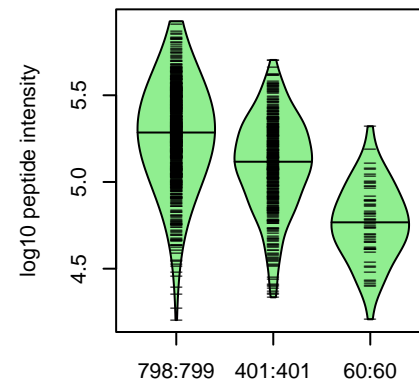
19:15580290:G:A_A
 $p = 8.4e-41$, $\beta = -0.682$, $N = 1157$

TPEPRPSLSHLLSQYYGAGVAR pc

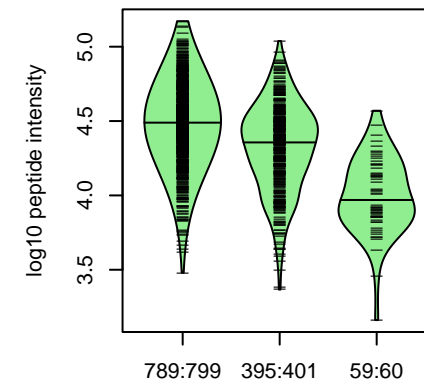
19:15580290:G:A_A
 $p = 1.8e-58$, $\beta = -0.741$, $N = 1253$

EFTEAFLGCPAIHPR pc3

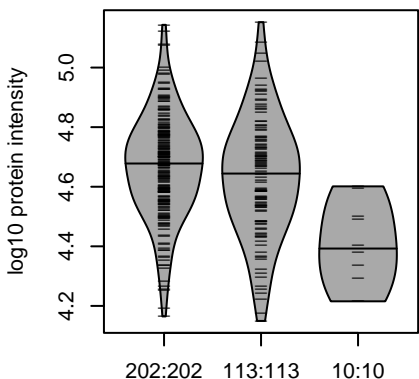
19:15580290:G:A_A
 $p = 1.2e-57$, $\beta = -0.735$, $N = 1259$

TDCPGDALFDLLR pc2

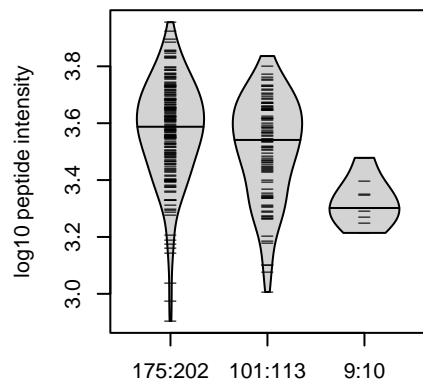
19:15580290:G:A_A
 $p = 1.4e-53$, $\beta = -0.71$, $N = 1259$

GCPDVQASLPDAK pc2

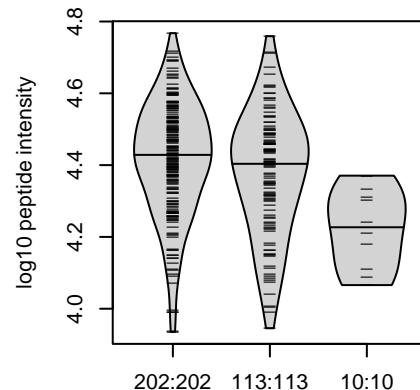
19:15580290:G:A_A
 $p = 1.1e-42$, $\beta = -0.642$, $N = 1243$

Q96PD5 NP4

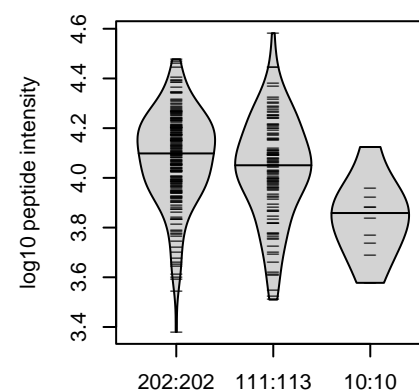
rs36020076
 $p = 0.0015$, $\beta = -0.314$, $N = 325$

'GVVLAPDGSTVAVEPLLAGLEAGLQC

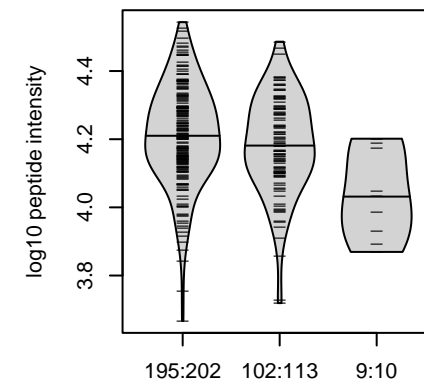
rs36020076
 $p = 4e-05$, $\beta = -0.427$, $N = 285$

TDCPGDALFDLLR pc2

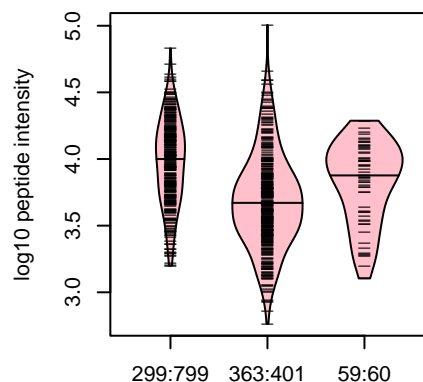
rs36020076
 $p = 0.0023$, $\beta = -0.301$, $N = 325$

EFTEAFLGCPAIHPR pc2

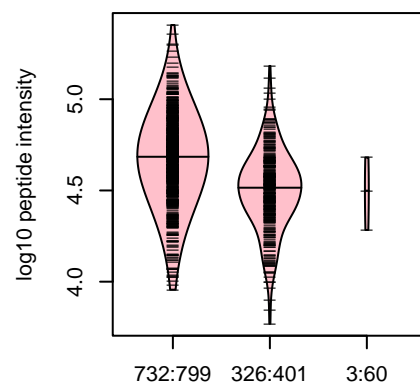
rs36020076
 $p = 0.0028$, $\beta = -0.296$, $N = 323$

GCPDVQASLPDAK pc2

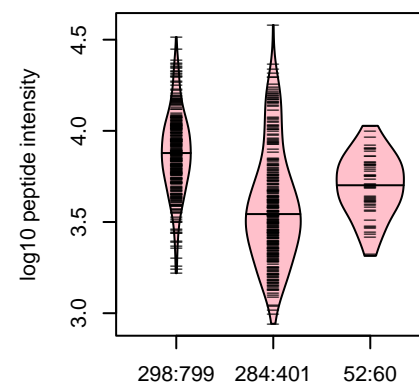
rs36020076
 $p = 0.0052$, $\beta = -0.287$, $N = 306$

**AFLNGALDGVILGDYLSR pc3
rs892145 ALT**

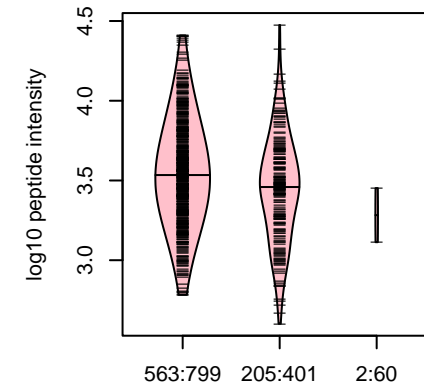
19:15580290:G:A_A
 $p = 7.7e-88$, $\text{model} = \text{REC}$, $N = 721$

**WGAAPYR pc2
rs34440547 REF**

19:15580290:G:A_A
 $p = 2.4e-45$, $\text{model} = \text{DOM}$, $N = 1061$

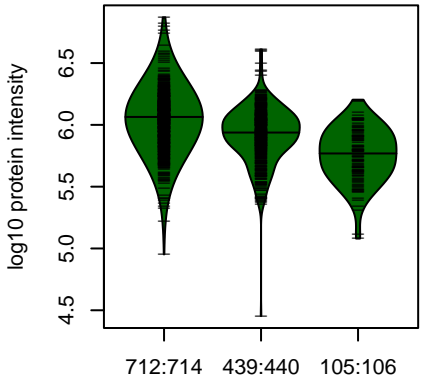
**EVAQHDVR pc2
rs733731 ALT**

19:15580290:G:A_A
 $p = 7.3e-35$, $\text{model} = \text{REC}$, $N = 634$

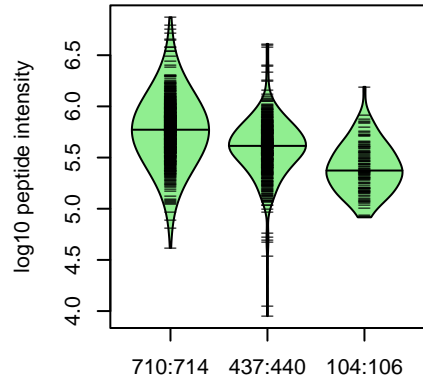
**ASLLTMAFLNGALDGVILGDYLSR pc3
rs892145 REF**

19:15580290:G:A_A
 $p = 1.4e-22$, $\text{model} = \text{DOM}$, $N = 770$

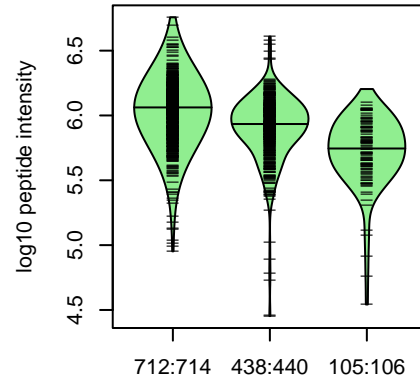
Locus: 25 (Sort: 30)
 Status: Not replicated
 80% power: Yes
 SNP: 19:15580290:G:A
 rsID: rs36020076
 UniProtID: Q96PD5
 HGNC gene: PGLYRP2
 Type: Cis-pQTL

SERPINF2 [trans]

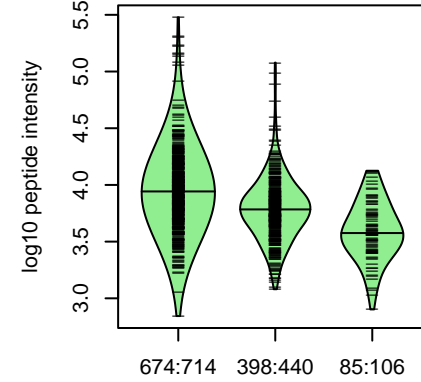
5:176839898:T:C_T
 $p = 2.4e-39$, $\beta = -0.552$, $N = 1256$

SPPGVCSR pc2

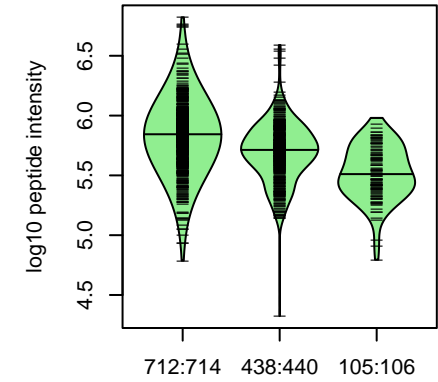
5:176839898:T:C_T
 $p = 4.4e-46$, $\beta = -0.598$, $N = 1251$

LGNGEPGGQTALK pc2

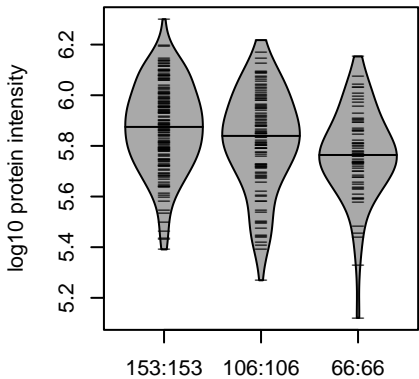
5:176839898:T:C_T
 $p = 1.6e-39$, $\beta = -0.553$, $N = 1255$

EQQDSPGNK pc2

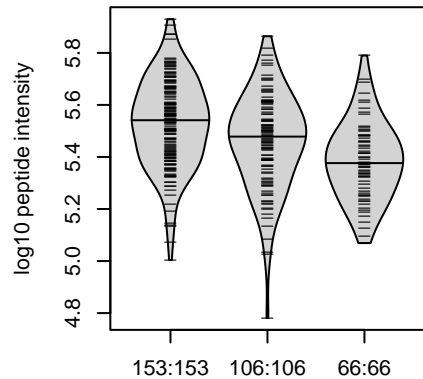
5:176839898:T:C_T
 $p = 2.4e-34$, $\beta = -0.55$, $N = 1157$

DFLQSLK pc2

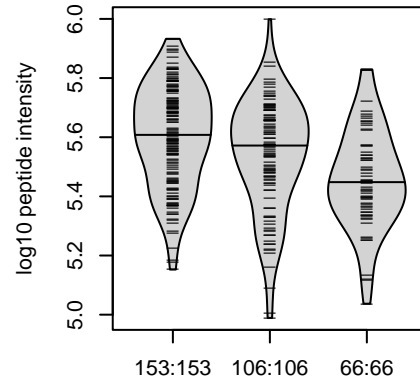
5:176839898:T:C_T
 $p = 3.4e-34$, $\beta = -0.515$, $N = 1255$

P08697 NP1

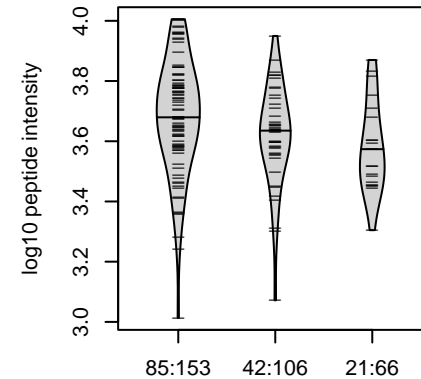
rs2731673
 $p = 0.066$, $\beta = -0.129$, $N = 325$

SPPGVCSR pc2

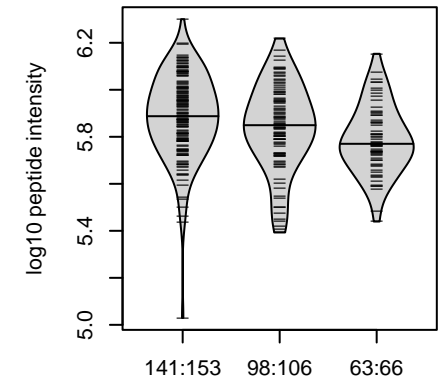
rs2731673
 $p = 0.00063$, $\beta = -0.239$, $N = 325$

DFLQSLK pc2

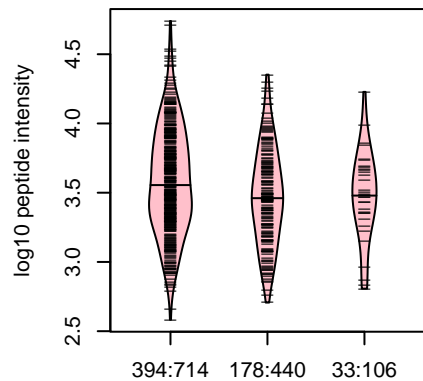
rs2731673
 $p = 0.0054$, $\beta = -0.195$, $N = 325$

EQQDSPGNK pc2

rs2731673
 $p = 0.039$, $\beta = -0.227$, $N = 148$

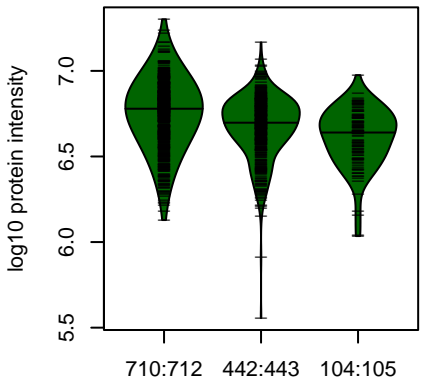
LGNGEPGGQTALK pc2

rs2731673
 $p = 0.11$, $\beta = -0.116$, $N = 302$

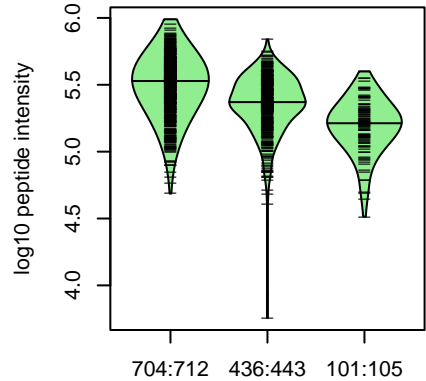
**QLTSGPNQEQVSPLTLK pc3
rs2070863 REF**

5:176839898:T:C_T
 $p = 6.1e-09$, $\text{model} = \text{REC}$, $N = 605$

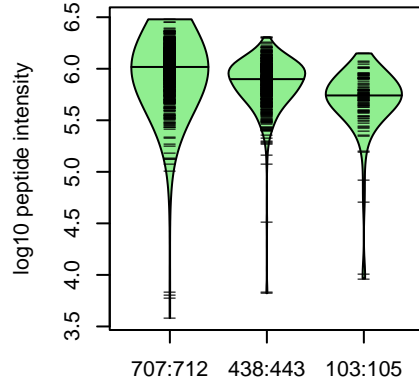
Locus: 26 (Sort: 31)
 Status: Not replicated
 80% power: Yes
 SNP: 5:176839898:T:C
 rsID: rs2731673
 UniProtID: P08697
 HGNC gene: SERPINF2
 Type: Trans-pQTL

SERPING1 [trans]

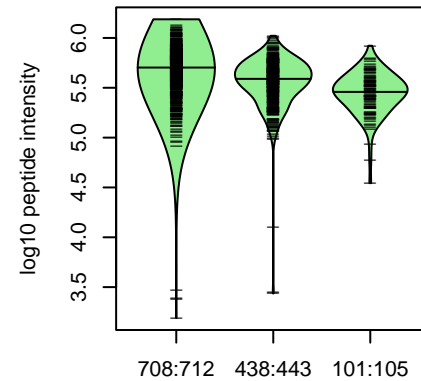
5:176839890:T:G_T
 $p = 1.6e-21$, $\beta = -0.408$, $N = 1256$

LEDMEQALSPSVFK pc2

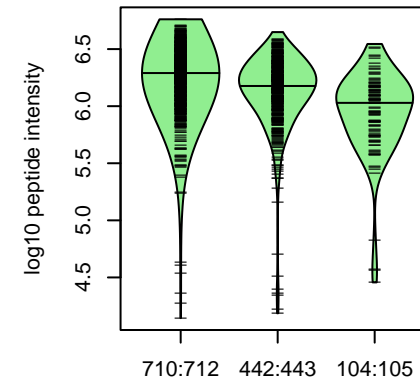
5:176839890:T:G_T
 $p = 4.5e-46$, $\beta = -0.602$, $N = 1241$

YPVAHFIDQTLK pc3

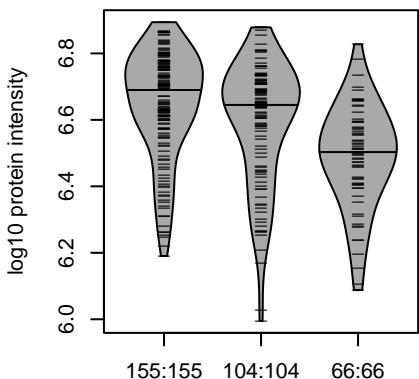
5:176839890:T:G_T
 $p = 7.3e-35$, $\beta = -0.523$, $N = 1248$

HRLEDMEQALSPSVFK pc4

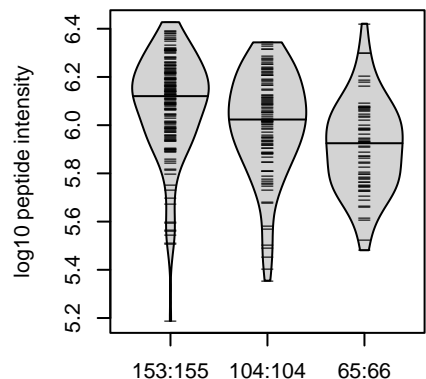
5:176839890:T:G_T
 $p = 6.5e-30$, $\beta = -0.487$, $N = 1247$

LVLLNAIYLSAK pc2

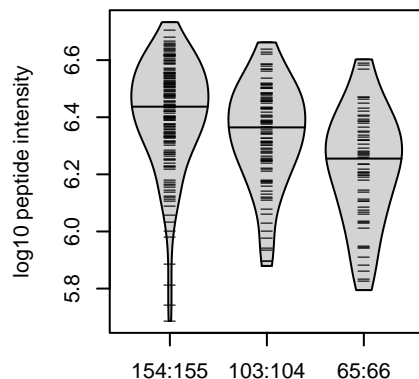
5:176839890:T:G_T
 $p = 3.9e-26$, $\beta = -0.451$, $N = 1256$

P05155 NP1

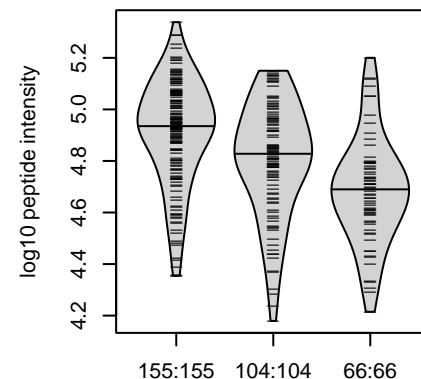
rs2731674
 $p = 0.01$, $\beta = -0.177$, $N = 325$

LYHAFSAMK pc2

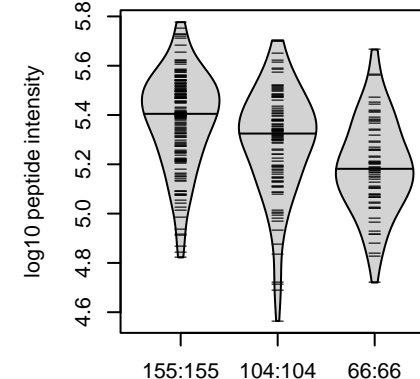
rs2731674
 $p = 7.8e-05$, $\beta = -0.277$, $N = 322$

TLYSSSPR pc2

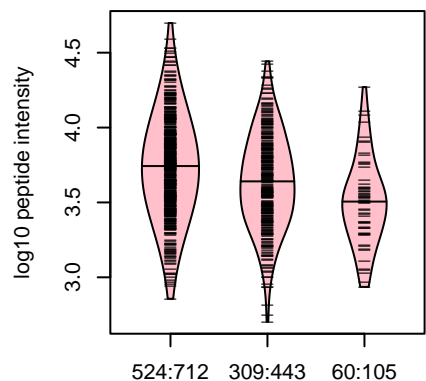
rs2731674
 $p = 0.00021$, $\beta = -0.26$, $N = 322$

LEDMEQALSPSVFK pc2

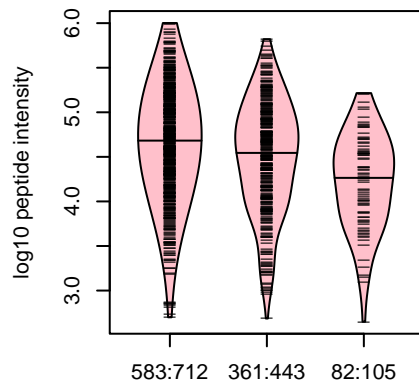
rs2731674
 $p = 0.00094$, $\beta = -0.231$, $N = 325$

HRLEDMEQALSPSVFK pc4

rs2731674
 $p = 0.0013$, $\beta = -0.225$, $N = 325$

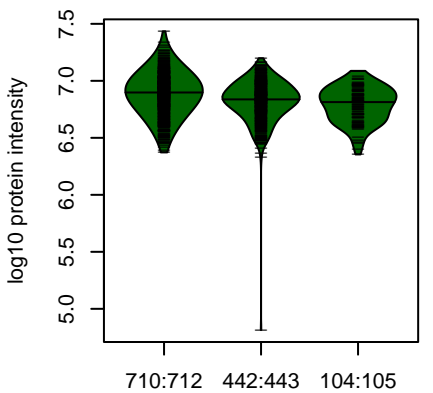
**TLLVFEVQQPFLVLWDQQHK pc4
rs4926 REF**

5:176839890:T:G_T
 $p = 0.0017$, $\text{model} = \text{DOM}$, $N = 893$

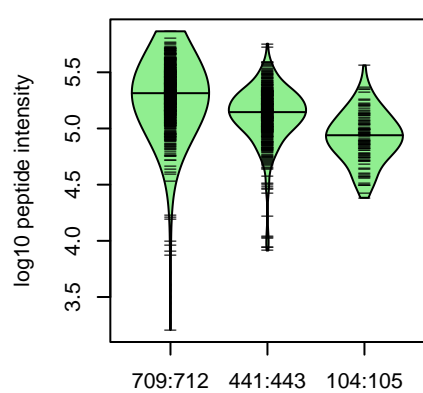
**TLLVFEVQQPFLMLWDQQHK pc3
rs4926 ALT**

5:176839890:T:G_T
 $p = 0.36$, $\text{model} = \text{DOM}$, $N = 1026$

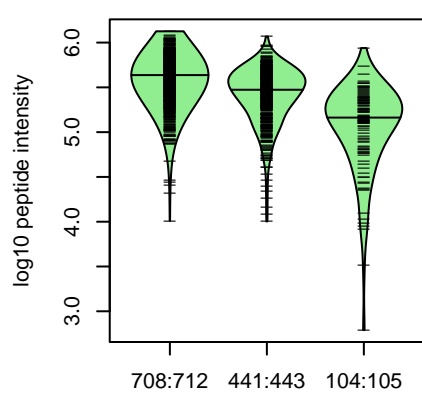
Locus: 26 (Sort: 32)
 Status: Not replicated
 80% power: Yes
 SNP: 5:176839890:T:G
 rsID: rs2731674
 UniProtID: P05155
 HGNC gene: SERPING1
 Type: Trans-pQTL

F12 [cis]

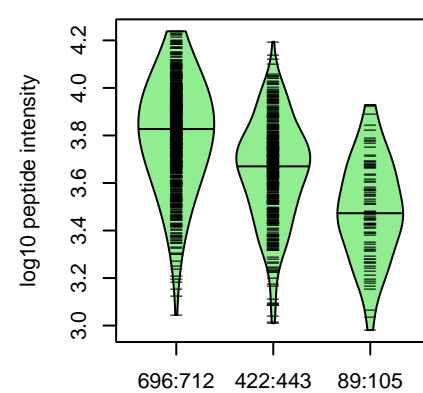
5:176839890:T:G_T
 $p = 1e-12$, $\beta = -0.308$, $N = 1256$

GPD4HCQR pc2

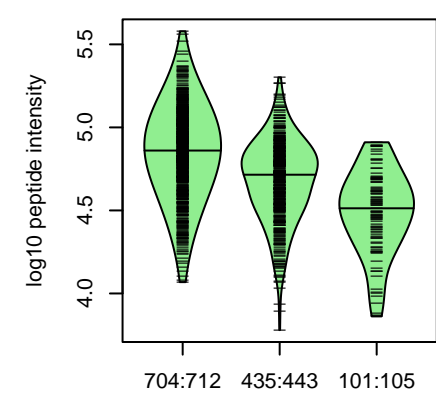
5:176839890:T:G_T
 $p = 7.4e-60$, $\beta = -0.676$, $N = 1254$

NPDNDIRPWCFVLNR pc3

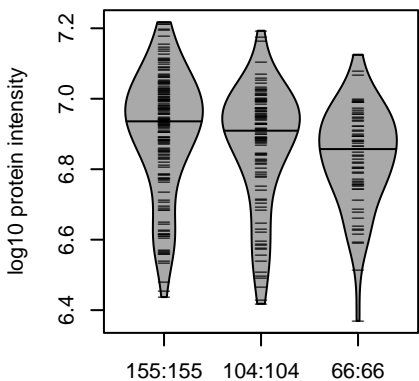
5:176839890:T:G_T
 $p = 9.5e-53$, $\beta = -0.637$, $N = 1253$

EKCFEPQLLR pc3

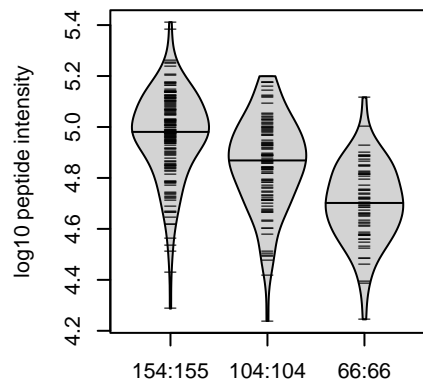
5:176839890:T:G_T
 $p = 1.3e-47$, $\beta = -0.631$, $N = 1207$

PAPEDLTVVLGQER pc2

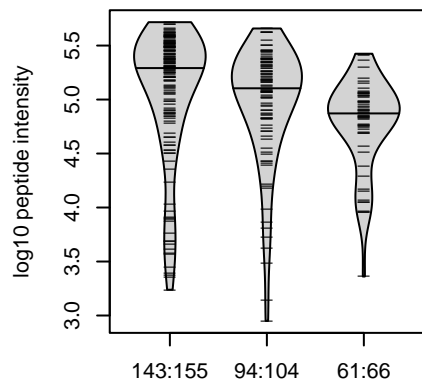
5:176839890:T:G_T
 $p = 1.5e-44$, $\beta = -0.593$, $N = 1240$

P00748 NP1

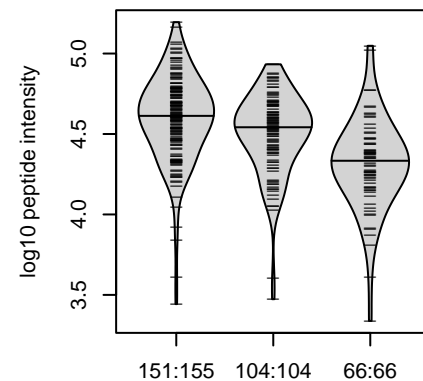
rs2731674
 $p = 0.23$, $\beta = -0.0847$, $N = 325$

GPD4HCQR pc2

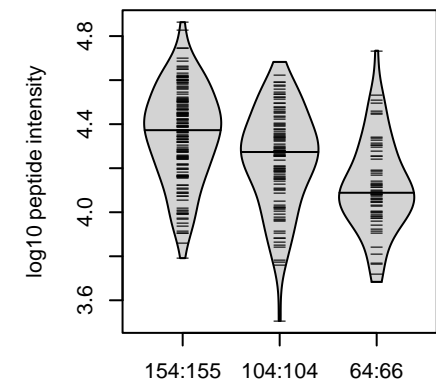
rs2731674
 $p = 1e-10$, $\beta = -0.442$, $N = 324$

NPDNDIRPWCFVLNR pc3

rs2731674
 $p = 0.00027$, $\beta = -0.264$, $N = 298$

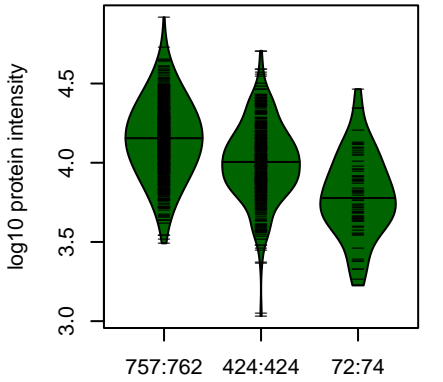
NHSCEPCQLAVR pc3

rs2731674
 $p = 0.00071$, $\beta = -0.238$, $N = 321$

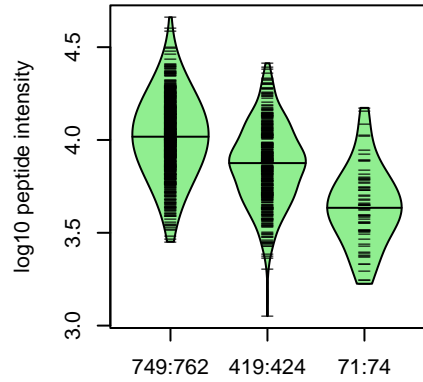
PAPEDLTVVLGQER pc2

rs2731674
 $p = 0.00092$, $\beta = -0.234$, $N = 322$

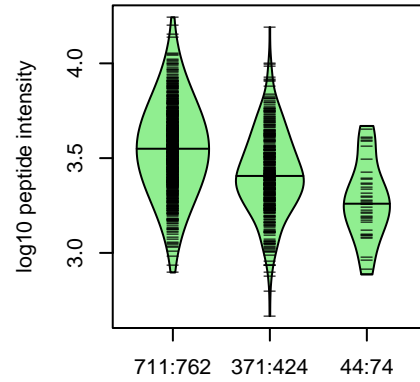
Locus: 26 (Sort: 33)
 Status: Not replicated
 80% power: No
 SNP: 5:176839890:T:G
 rsID: rs2731674
 UniProtID: P00748
 HGNC gene: F12
 Type: Cis-pQTL

IL7R [cis]

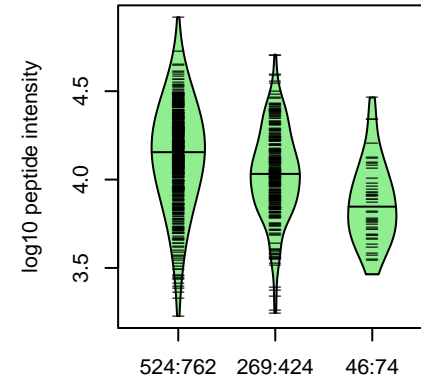
5:35874575:C:T_T
 $p = 3.3e-39$, $\beta = -0.592$, $N = 1253$

LQEIFYETK pc2

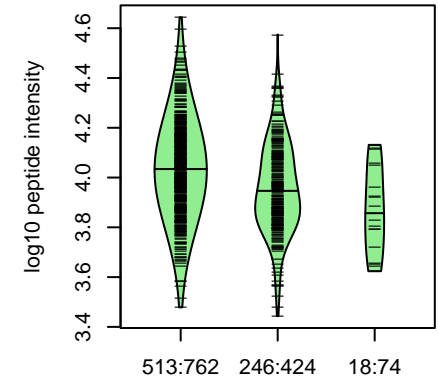
5:35874575:C:T_T
 $p = 5.1e-54$, $\beta = -0.694$, $N = 1239$

VLMHDVAYR pc2

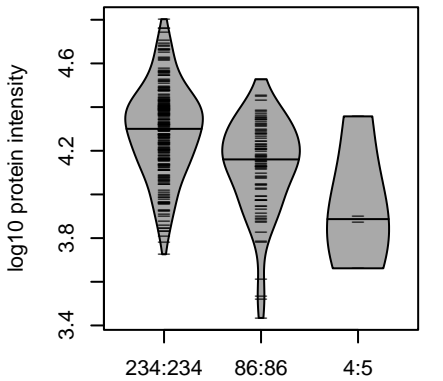
5:35874575:C:T_T
 $p = 2.2e-27$, $\beta = -0.554$, $N = 1126$

LQPAAMYEIK pc2

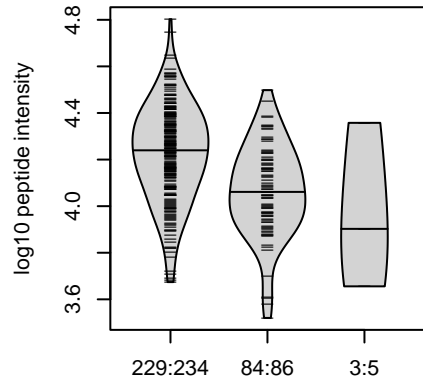
5:35874575:C:T_T
 $p = 1.2e-11$, $\beta = -0.386$, $N = 839$

SIPDHYFK pc2

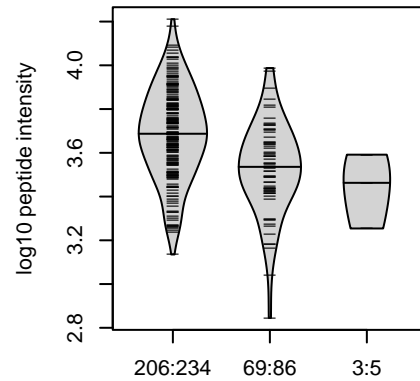
5:35874575:C:T_T
 $p = 2e-09$, $\beta = -0.401$, $N = 777$

P16871 NP2

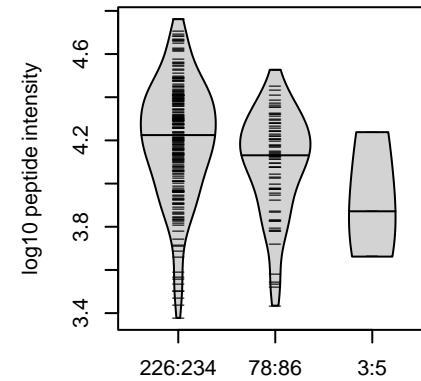
rs6897932
 $p = 3.6e-08$, $\beta = -0.622$, $N = 324$

LQEIFYETK pc2

rs6897932
 $p = 5.3e-08$, $\beta = -0.626$, $N = 316$

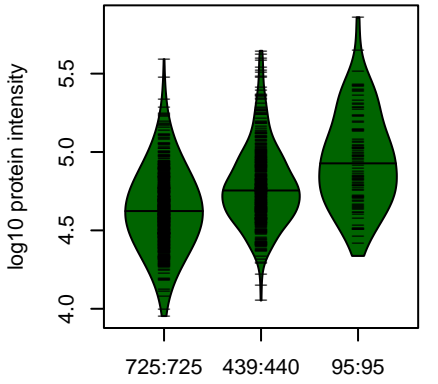
VLMHDVAYR pc2

rs6897932
 $p = 1.6e-07$, $\beta = -0.648$, $N = 278$

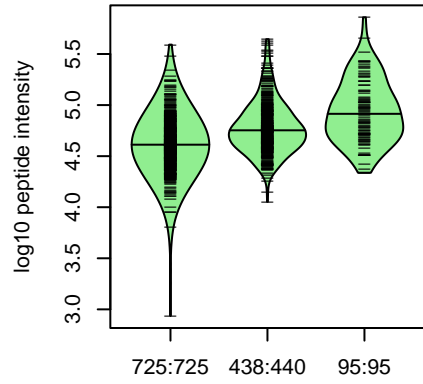
LQPAAMYEIK pc2

rs6897932
 $p = 0.00048$, $\beta = -0.417$, $N = 307$

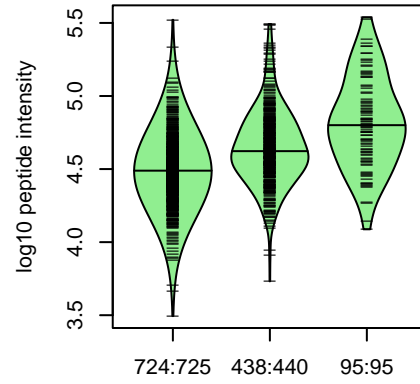
Locus: 27 (Sort: 34)
 Status: Replicated
 80% power: Yes
 SNP: 5:35874575:C:T
 rsID: rs6897932
 UniProtID: P16871
 HGNC gene: IL7R
 Type: Cis-pQTL

TIMP3 [cis]

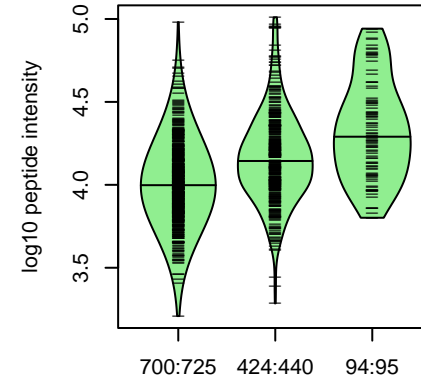
22:33159092:A:G_A
 $p = 3.6e-38$, $\beta = 0.554$, $N = 1259$

SCYYLPCFVTSK pc2

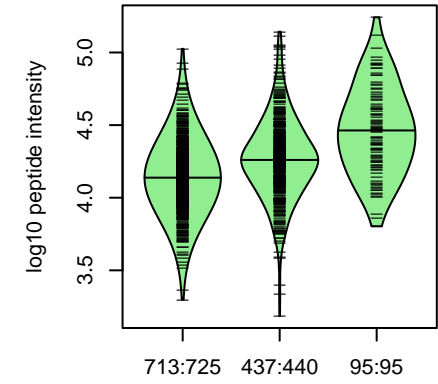
22:33159092:A:G_A
 $p = 7.7e-40$, $\beta = 0.566$, $N = 1258$

EGPFGTLVYTIK pc2

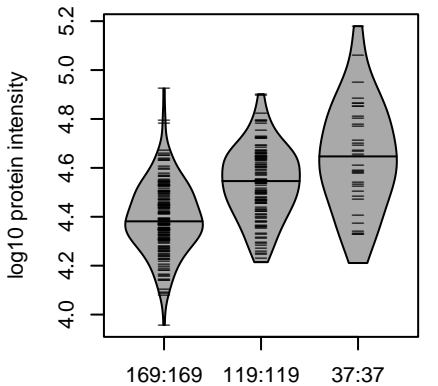
22:33159092:A:G_A
 $p = 3.1e-39$, $\beta = 0.562$, $N = 1257$

YHLGCNCK pc2

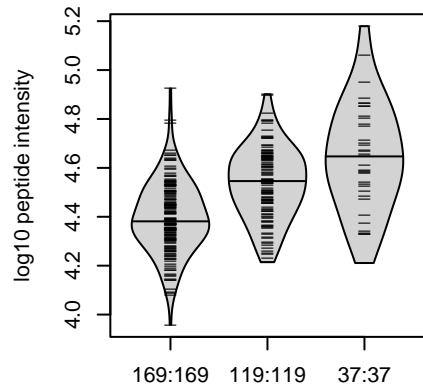
22:33159092:A:G_A
 $p = 3.3e-35$, $\beta = 0.539$, $N = 1218$

MPHVQYIHTEASESLCGLK pc4

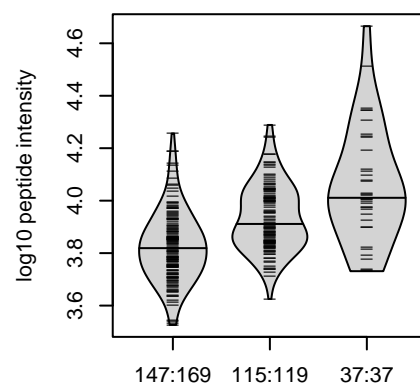
22:33159092:A:G_A
 $p = 6.3e-30$, $\beta = 0.493$, $N = 1245$

P35625 NP4

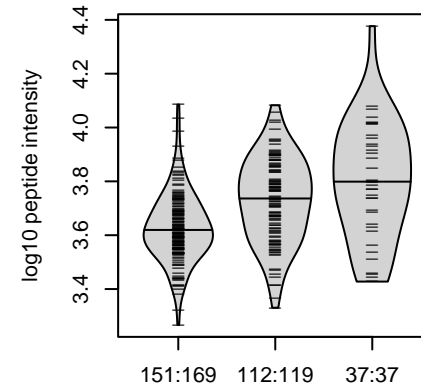
rs4821097
 $p = 1.9e-15$, $\beta = 0.594$, $N = 325$

SCYYLPCFVTSK pc2

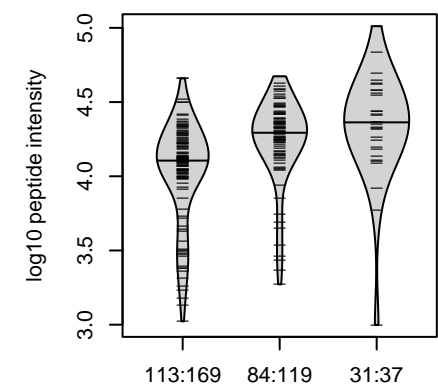
rs4821097
 $p = 1.4e-15$, $\beta = 0.609$, $N = 325$

MPHVQYIHTEASESLCGLK pc4

rs4821097
 $p = 1.8e-14$, $\beta = 0.602$, $N = 299$

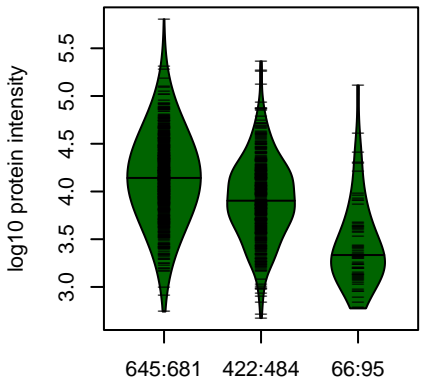
YHLGCNCK pc2

rs4821097
 $p = 2.9e-08$, $\beta = 0.444$, $N = 300$

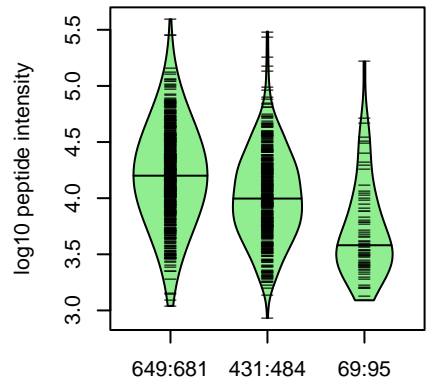
EGPFGTLVYTIK pc2

rs4821097
 $p = 2.2e-07$, $\beta = 0.463$, $N = 228$

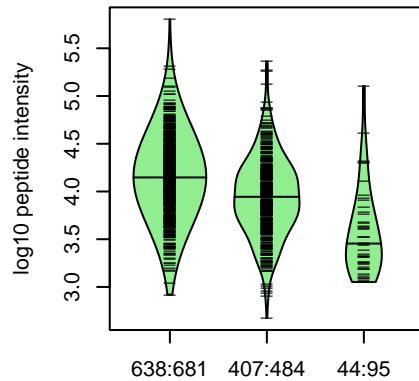
Locus: 28 (Sort: 35)
 Status: Replicated
 80% power: Yes
 SNP: 22:33159092:A:G
 rsID: rs4821097
 UniProtID: P35625
 HGNC gene: TIMP3
 Type: Cis-pQTL

PRB1 [cis]

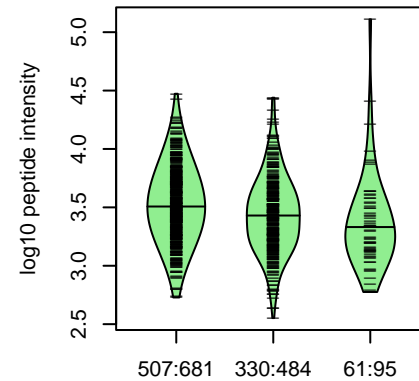
12:11522616:G:A_G
 $p = 3.8e-38$, $\beta = -0.608$, $N = 1133$

PQGPPPQGDK pc2

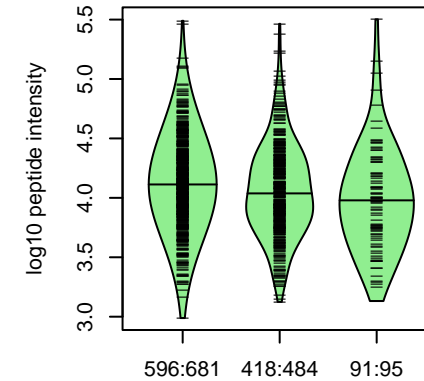
12:11522616:G:A_G
 $p = 5.2e-33$, $\beta = -0.56$, $N = 1149$

PQGPPAQGGSK pc2

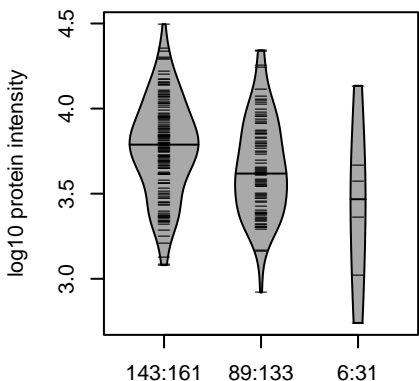
12:11522616:G:A_G
 $p = 5.5e-28$, $\beta = -0.561$, $N = 1089$

PQGPPPQGGK pc2

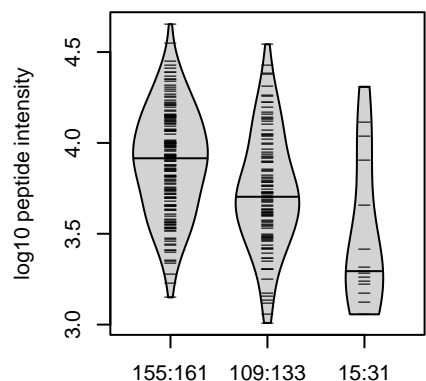
12:11522616:G:A_G
 $p = 1e-08$, $\beta = -0.304$, $N = 898$

PQGPPPPGK pc2

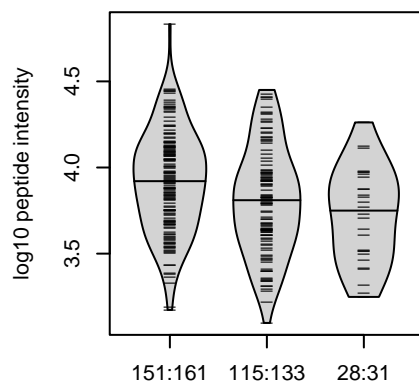
12:11522616:G:A_G
 $p = 2.5e-06$, $\beta = -0.218$, $N = 1105$

A0A4W8X8U3 NP4

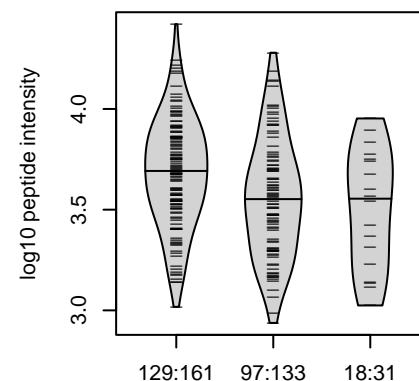
rs7966710
 $p = 7.1e-05$, $\beta = -0.462$, $N = 238$

PQGPPPQGDK pc2

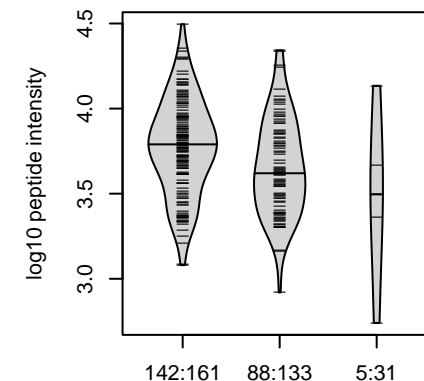
rs7966710
 $p = 1.7e-09$, $\beta = -0.576$, $N = 279$

PQGPPPPGK pc2

rs7966710
 $p = 2.7e-05$, $\beta = -0.361$, $N = 294$

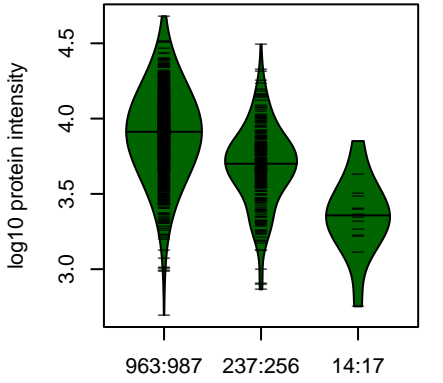
PQGPPPQGGNK pc2

rs7966710
 $p = 2.8e-05$, $\beta = -0.413$, $N = 244$

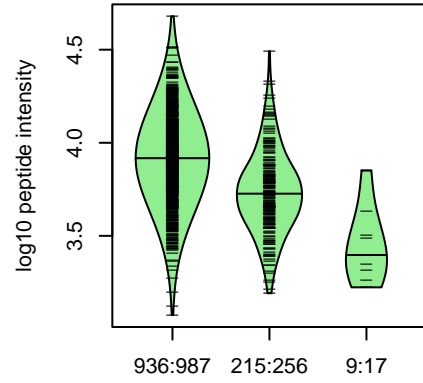
PQGPPAQGGSK pc2

rs7966710
 $p = 0.00018$, $\beta = -0.443$, $N = 235$

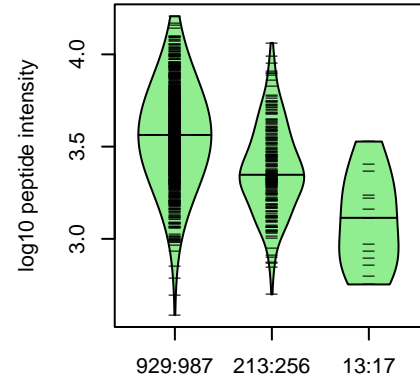
Locus: 29 (Sort: 36)
 Status: Replicated
 80% power: Yes
 SNP: 12:11522616:G:A
 rsID: rs7966710
 UniProtID: A0A4W8X8U3
 HGNC gene: PRB1
 Type: Cis-pQTL

C2orf40 [cis]

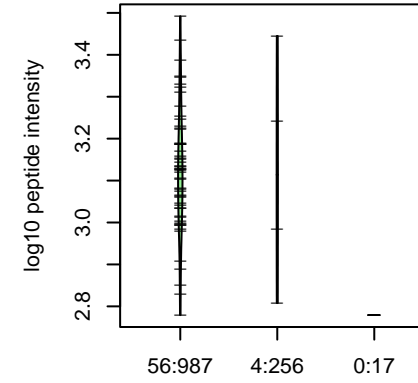
2:106687456:G:C_C
 $p = 5.9e-38$, $\beta = -0.809$, $N = 1214$

FEDDITYWLNR pc2

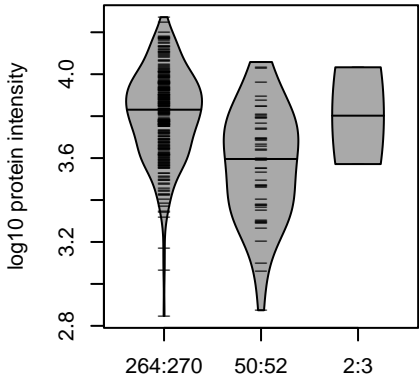
2:106687456:G:C_C
 $p = 3.2e-32$, $\beta = -0.799$, $N = 1160$

HYDEDSAIGPR pc2

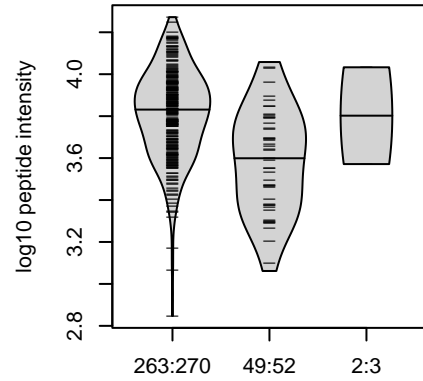
2:106687456:G:C_C
 $p = 3.7e-31$, $\beta = -0.765$, $N = 1155$

NGHEYYGDIYQR pc3

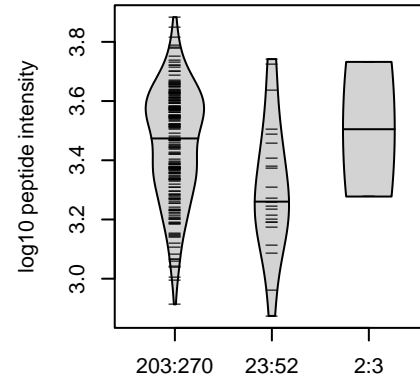
2:106687456:G:C_C
 $p = 0.24$, $\beta = 0.579$, $N = 60$

Q9H1Z8 NP2

rs13014521
 $p = 4.5e-09$, $\beta = -0.795$, $N = 316$

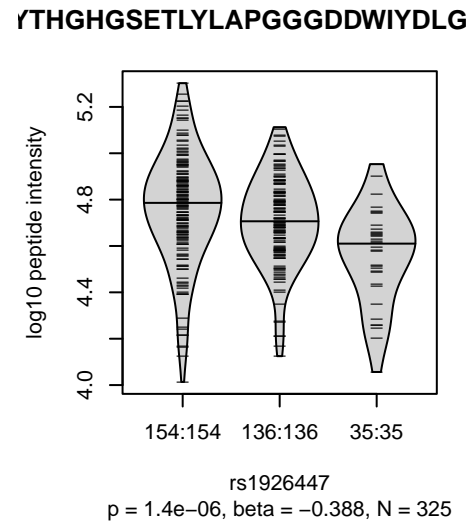
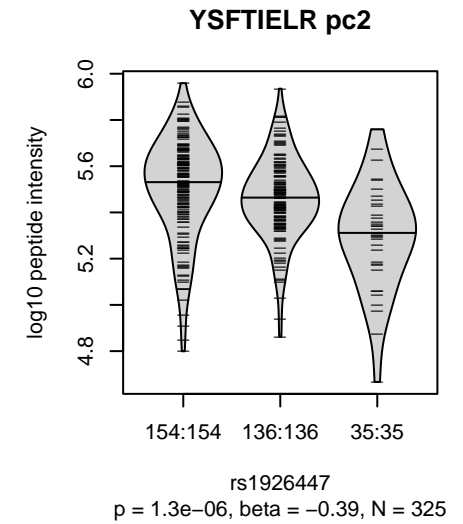
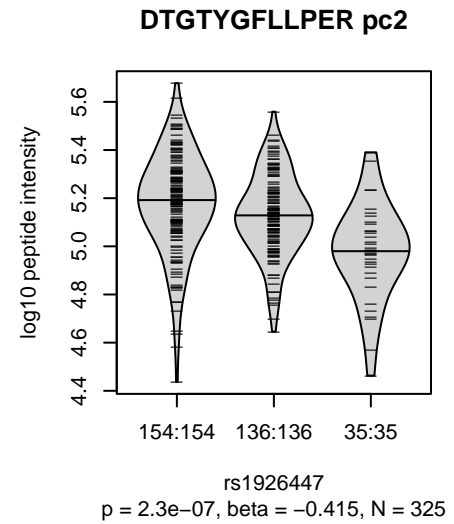
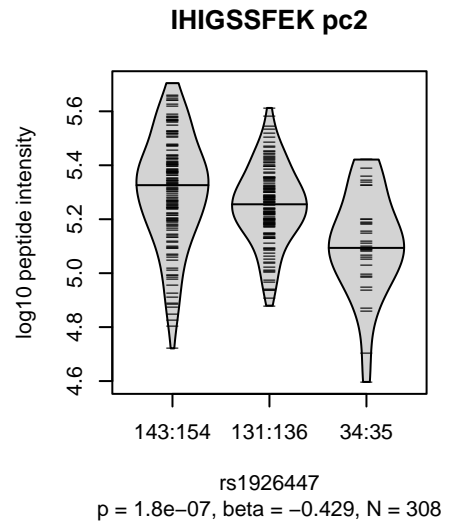
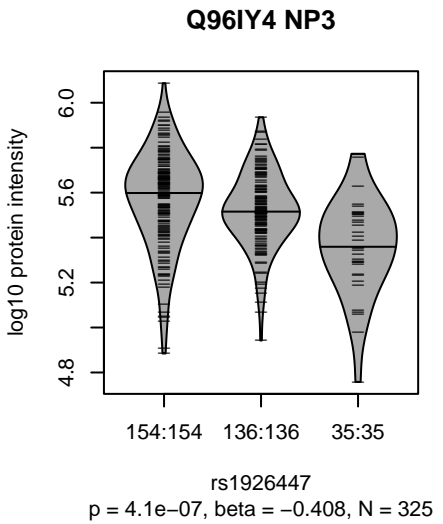
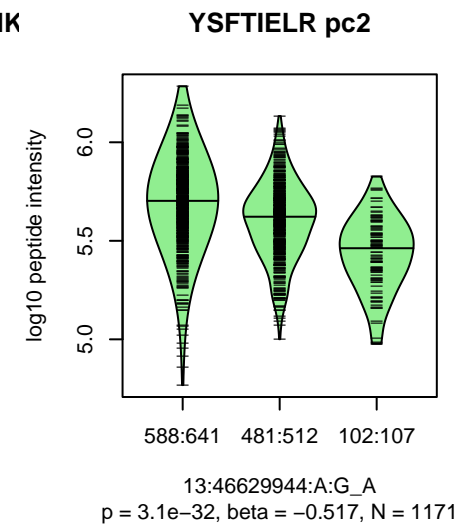
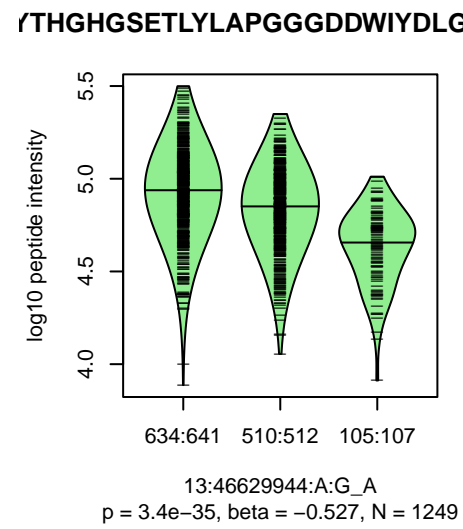
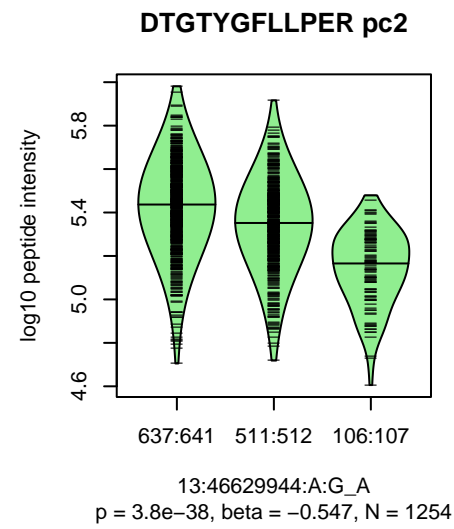
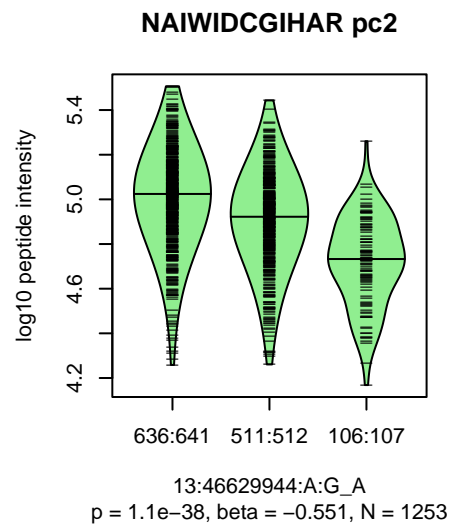
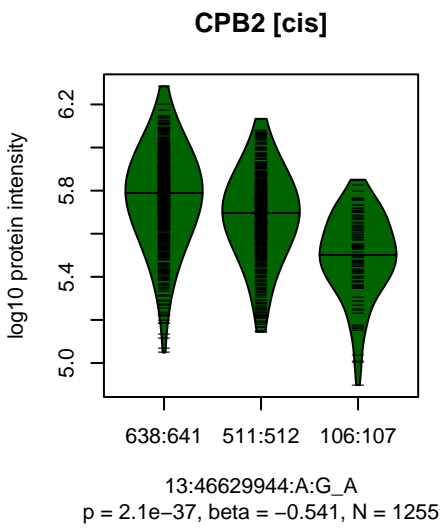
FEDDITYWLNR pc2

rs13014521
 $p = 1.6e-08$, $\beta = -0.785$, $N = 314$

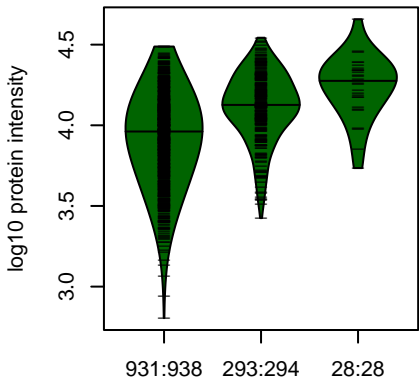
HYDEDSAIGPR pc2

rs13014521
 $p = 0.016$, $\beta = -0.449$, $N = 228$

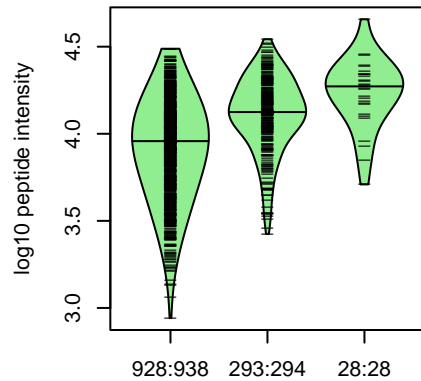
Locus: 30 (Sort: 37)
 Status: Replicated
 80% power: Yes
 SNP: 2:106687456:G:C
 rsID: rs13014521
 UniProtID: Q9H1Z8
 HGNC gene: C2orf40
 Type: Cis-pQTL



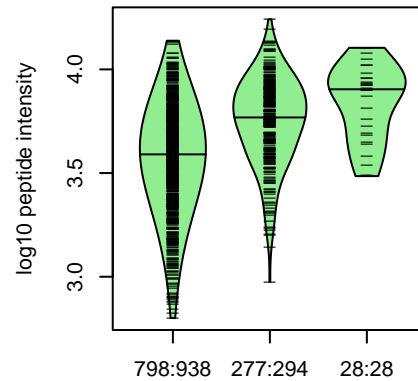
Locus: 31 (Sort: 38)
 Status: Replicated
 80% power: Yes
 SNP: 13:46629944:A:G
 rsID: rs1926447
 UniProtID: Q96IY4
 HGNC gene: CPB2
 Type: Cis-pQTL

GALC [cis]

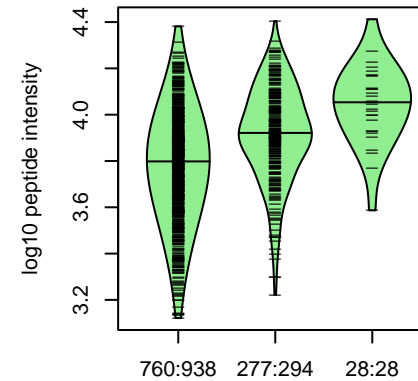
14:88496080:G:T_T
 $p = 4.5e-37$, $\beta = 0.7$, $N = 1252$

SLWTDIPVNFPK pc2

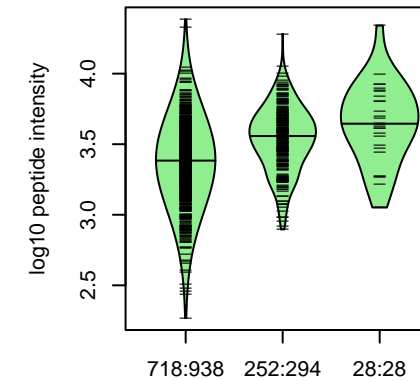
14:88496080:G:T_T
 $p = 8.2e-37$, $\beta = 0.697$, $N = 1249$

GSFSEIPELQVWYTK pc2

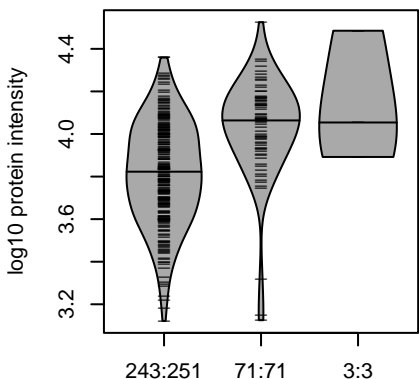
14:88496080:G:T_T
 $p = 2.7e-30$, $\beta = 0.651$, $N = 1103$

GYEWLLMK pc2

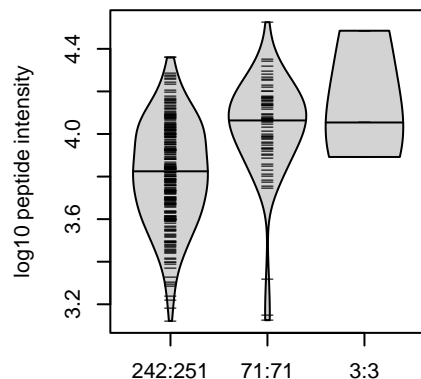
14:88496080:G:T_T
 $p = 2.5e-24$, $\beta = 0.586$, $N = 1065$

VTGDLAGWIIYALGRVEVTAK pc3

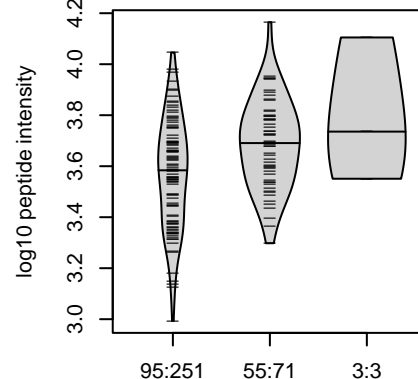
14:88496080:G:T_T
 $p = 2.8e-21$, $\beta = 0.562$, $N = 998$

P54803 NP5

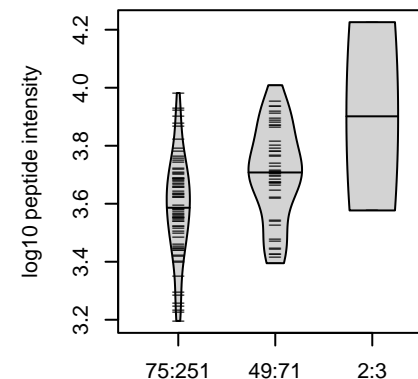
rs12323470
 $p = 4.3e-13$, $\beta = 0.866$, $N = 317$

SLWTDIPVNFPK pc2

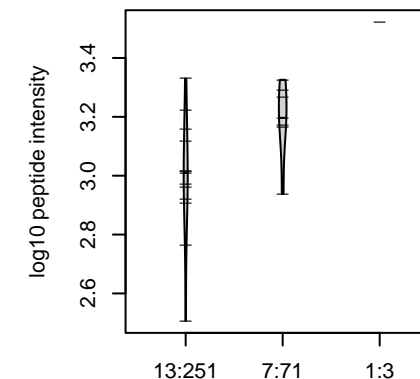
rs12323470
 $p = 3.2e-13$, $\beta = 0.862$, $N = 316$

GSFSEIPELQVWYTK pc2

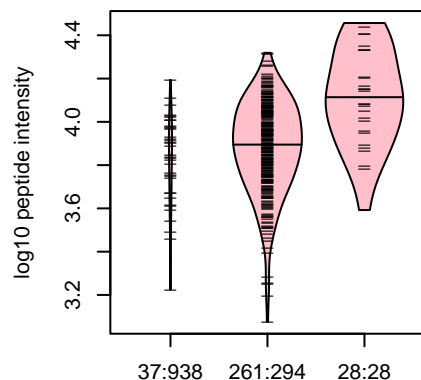
rs12323470
 $p = 9e-05$, $\beta = 0.573$, $N = 153$

EFDGIGAVSGGGATSR pc2

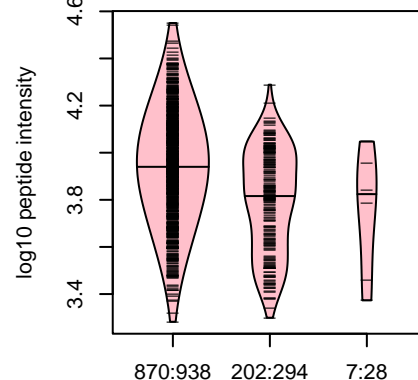
rs12323470
 $p = 0.0059$, $\beta = 0.449$, $N = 126$

EIGGDGQTTDGTESHPMHYALDENYF

rs12323470
 $p = 0.0065$, $\beta = 0.86$, $N = 21$

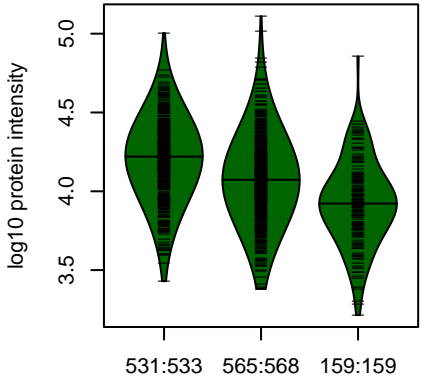
**VVNVIGAHYPGTHSAK pc3
rs34362748 ALT**

14:88496080:G:T_T
 $p = 2.2e-200$, $\text{model} = \text{REC}$, $N = 326$

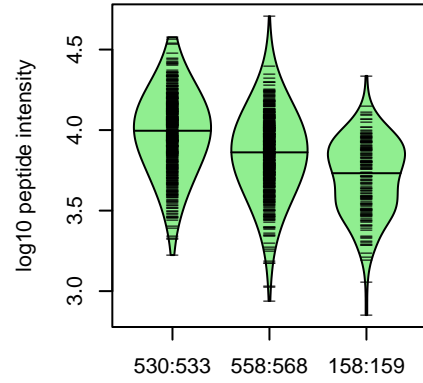
**VVDVIGAHYPGTHSAK pc3
rs34362748 REF**

14:88496080:G:T_T
 $p = 1.9e-30$, $\text{model} = \text{REC}$, $N = 1079$

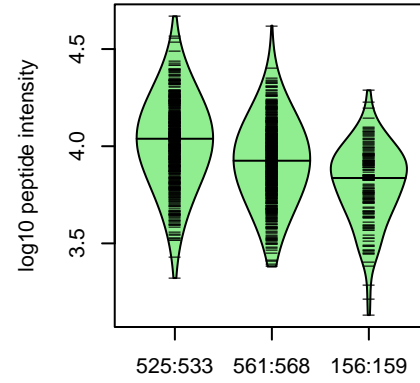
Locus: 32 (Sort: 39)
 Status: Replicated
 80% power: Yes
 SNP: 14:88496080:G:T
 rsID: rs12323470
 UniProtID: P54803
 HGNC gene: GALC
 Type: Cis-pQTL

LEFTY1 [cis]

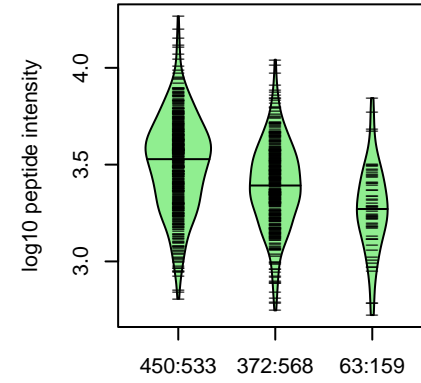
1:226074563:T:G_G
 $p = 9.9e-37$, $\beta = -0.507$, $N = 1255$

QPLLLQSVQR pc2

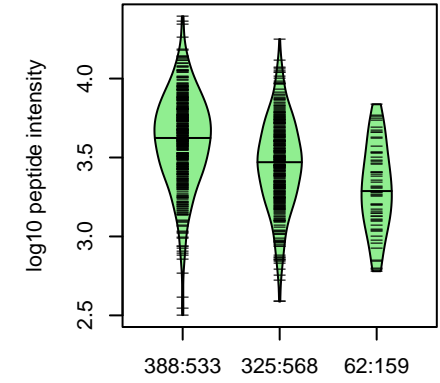
1:226074563:T:G_G
 $p = 2.5e-40$, $\beta = -0.532$, $N = 1246$

AFDVTEAVNFWQQLSRPR pc3

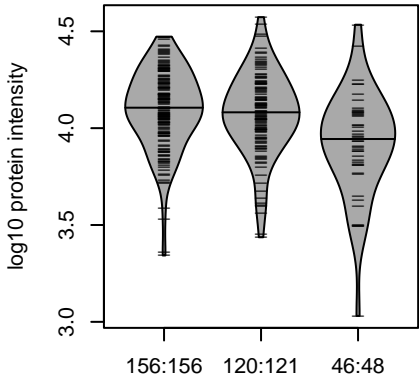
1:226074563:T:G_G
 $p = 5.4e-35$, $\beta = -0.499$, $N = 1242$

EVPTLDRADMEELVIPTHVR pc4

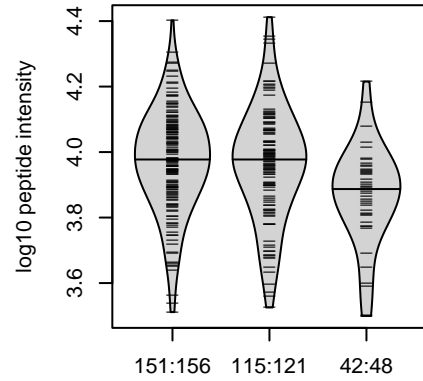
1:226074563:T:G_G
 $p = 6.6e-20$, $\beta = -0.479$, $N = 885$

AQYVALLQR pc2

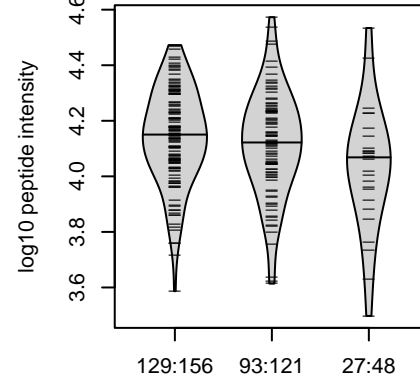
1:226074563:T:G_G
 $p = 6.9e-19$, $\beta = -0.486$, $N = 775$

O75610 NP1

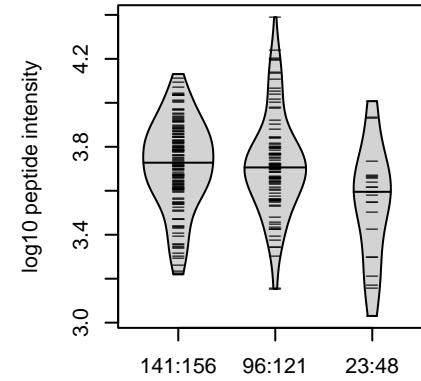
rs360057
 $p = 6.2e-05$, $\beta = -0.3$, $N = 322$

AFDVTEAVNFWQQLSRPR pc3

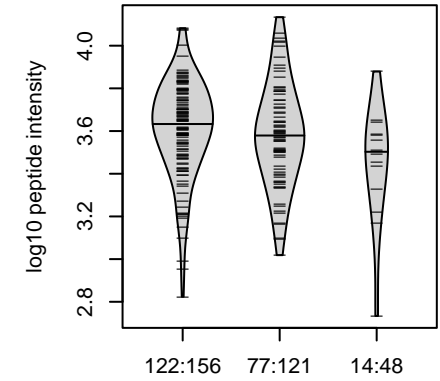
rs360057
 $p = 0.00029$, $\beta = -0.285$, $N = 308$

VTVEWLR pc2

rs360057
 $p = 0.0028$, $\beta = -0.274$, $N = 249$

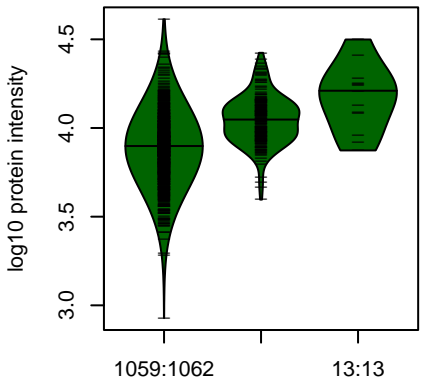
QPLLLQSVQR pc2

rs360057
 $p = 0.0081$, $\beta = -0.247$, $N = 260$

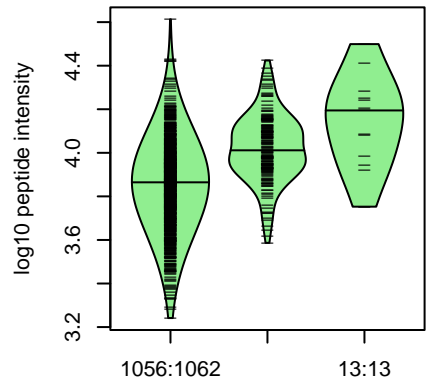
AQYVALLQR pc2

rs360057
 $p = 0.027$, $\beta = -0.241$, $N = 213$

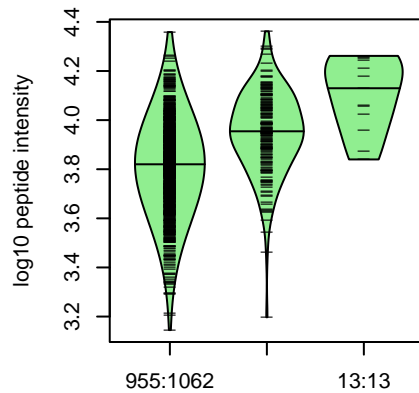
Locus: 33 (Sort: 40)
 Status: Replicated
 80% power: Yes
 SNP: 1:226074563:T:G
 rsID: rs360057
 UniProtID: O75610
 HGNC gene: LEFTY1
 Type: Cis-pQTL

RCN3 [cis]

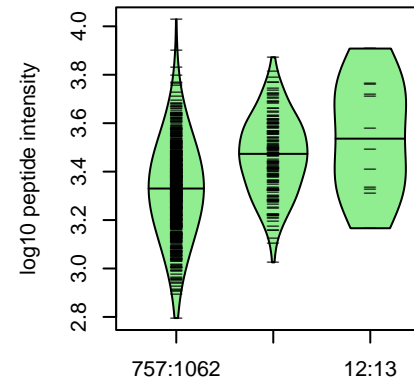
19:50037446:C:G_G
 $p = 2.9e-36$, $\beta = 0.858$, $N = 1255$

AGDGDGWVSLAELR pc2

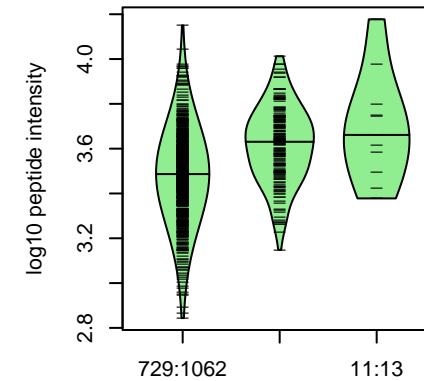
19:50037446:C:G_G
 $p = 6.4e-34$, $\beta = 0.83$, $N = 1252$

VGWEELR pc2

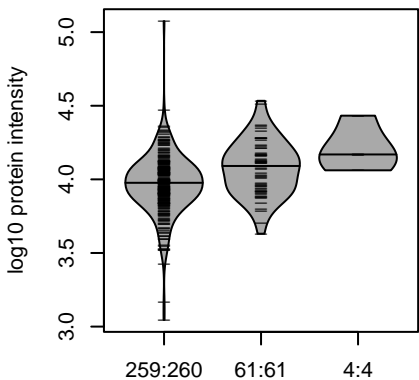
19:50037446:C:G_G
 $p = 8.2e-29$, $\beta = 0.778$, $N = 1144$

DIVAETLELDR pc2

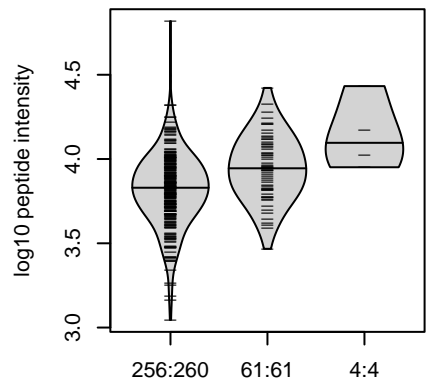
19:50037446:C:G_G
 $p = 3.1e-21$, $\beta = 0.698$, $N = 932$

EELTAFLHPEEFPHMR pc3

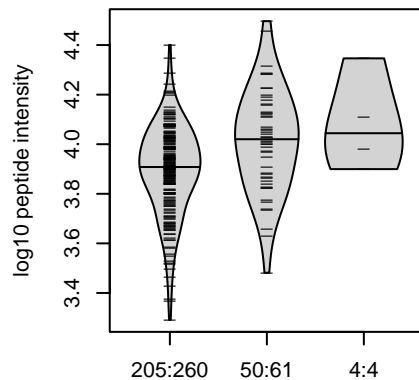
19:50037446:C:G_G
 $p = 6.9e-19$, $\beta = 0.664$, $N = 903$

Q96D15 NP2

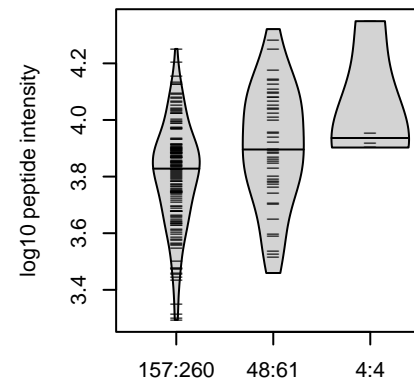
rs73582463
 $p = 9.5e-06$, $\beta = 0.549$, $N = 324$

AGDGDGWVSLAELR pc2

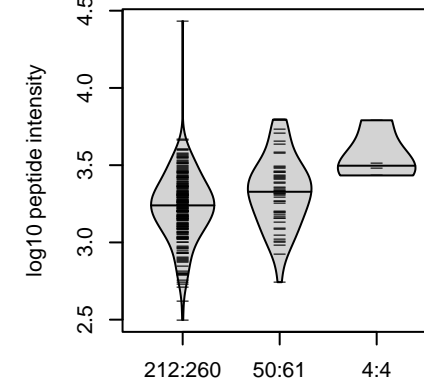
rs73582463
 $p = 1.3e-06$, $\beta = 0.595$, $N = 321$

EFDQLTPEESQAR pc2

rs73582463
 $p = 2.6e-05$, $\beta = 0.561$, $N = 259$

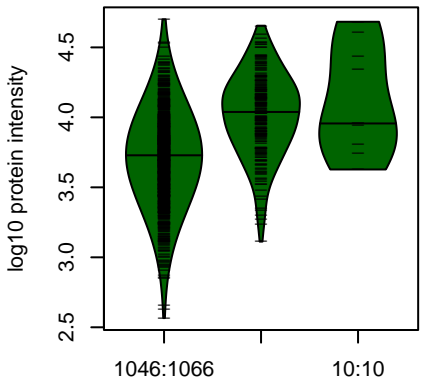
DSVSAAWDTYDTRDGR pc3

rs73582463
 $p = 4.7e-05$, $\beta = 0.561$, $N = 209$

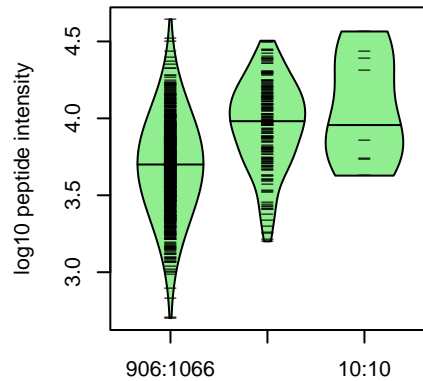
EELTAFLHPEEFPHMR pc4

rs73582463
 $p = 0.00042$, $\beta = 0.471$, $N = 266$

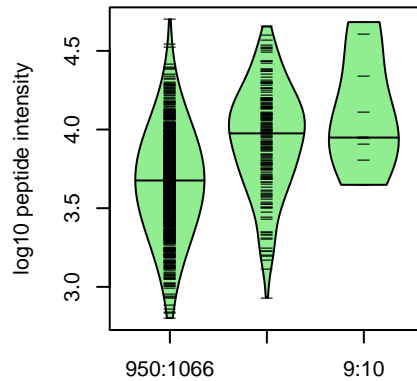
Locus: 34 (Sort: 41)
 Status: Replicated
 80% power: Yes
 SNP: 19:50037446:C:G
 rsID: rs73582463
 UniProtID: Q96D15
 HGNC gene: RCN3
 Type: Cis-pQTL

C1QTNF9 [cis]

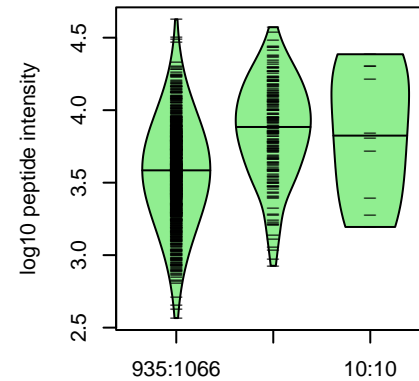
13:24906852:T:C_C
 $p = 4.5e-36$, $\beta = 0.877$, $N = 1240$

ILYNEFNHYDTAAGK pc3

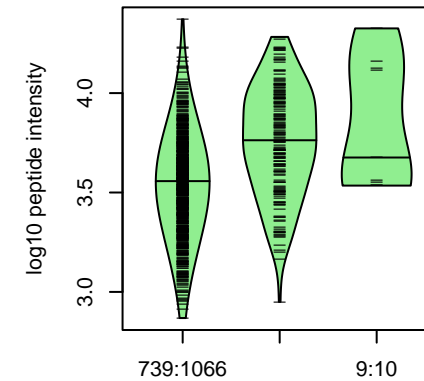
13:24906852:T:C_C
 $p = 2.6e-29$, $\beta = 0.804$, $N = 1095$

IGETLVLPK pc2

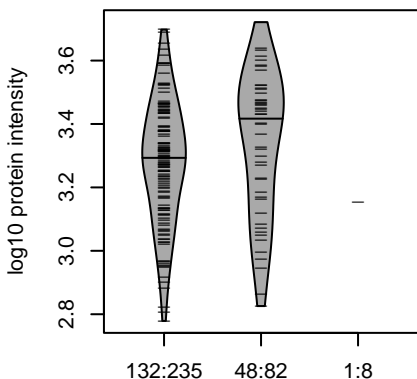
13:24906852:T:C_C
 $p = 1.5e-27$, $\beta = 0.783$, $N = 1139$

SAFTVGLTVLSK pc2

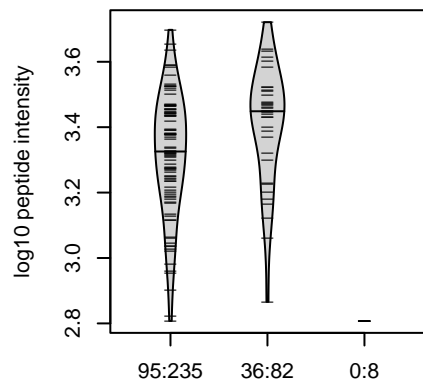
13:24906852:T:C_C
 $p = 2.4e-25$, $\beta = 0.747$, $N = 1123$

LGDEVWLQVTGGER pc2

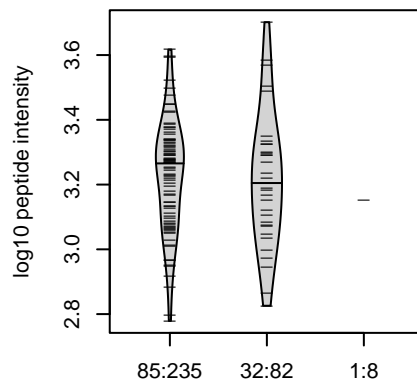
13:24906852:T:C_C
 $p = 7.3e-24$, $\beta = 0.748$, $N = 922$

P0C862 NP4

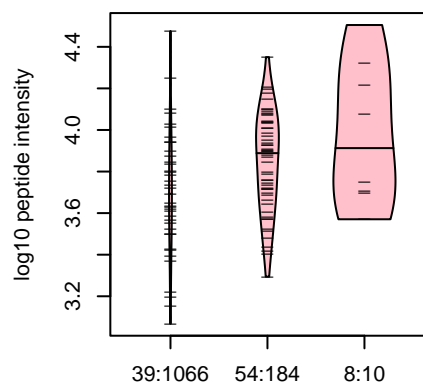
rs1988661
 $p = 0.23$, $\beta = 0.191$, $N = 181$

ILYNEFNHYDTAAGK pc3

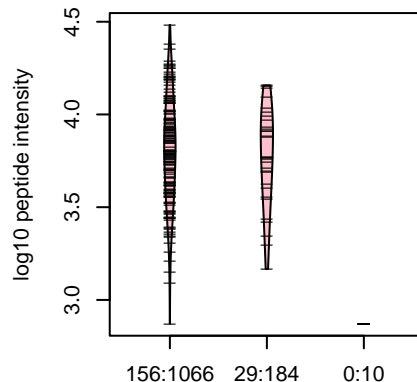
rs1988661
 $p = 0.005$, $\beta = 0.529$, $N = 131$

IGETLVLPK pc2

rs1988661
 $p = 0.38$, $\beta = -0.166$, $N = 118$

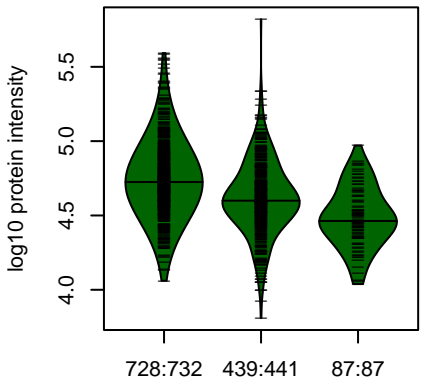
**FPSSDMPK pc2
rs3751357 REF**

13:24906852:T:C_C
 $p = 5.1e-29$, $\text{model} = \text{REC}$, $N = 101$

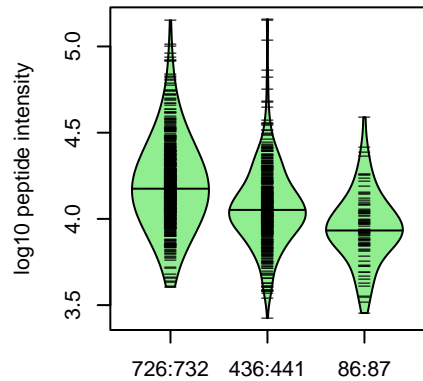
**FPSSDVPIK pc2
rs3751357 ALT**

13:24906852:T:C_C
 $p = 0.37$, $\text{model} = \text{DOM}$, $N = 185$

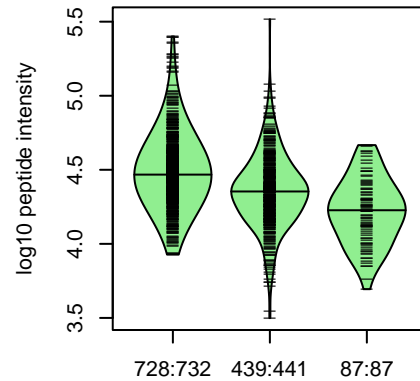
Locus: 35 (Sort: 42)
 Status: Not replicated
 80% power: Yes
 SNP: 13:24906852:T:C
 rsID: rs1988661
 UniProtID: P0C862
 HGNC gene: C1QTNF9
 Type: Cis-pQTL

RNASE6 [cis]

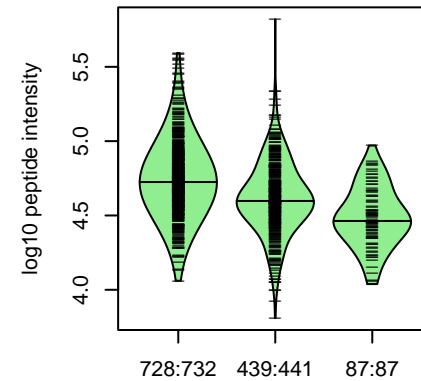
14:21250846:G:T_T
 $p = 4.7e-33$, $\beta = -0.525$, $N = 1254$

YSAAAQYK pc2

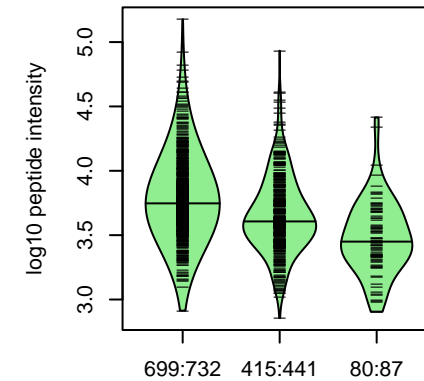
14:21250846:G:T_T
 $p = 6.5e-37$, $\beta = -0.557$, $N = 1248$

FFIVACDPPQK pc2

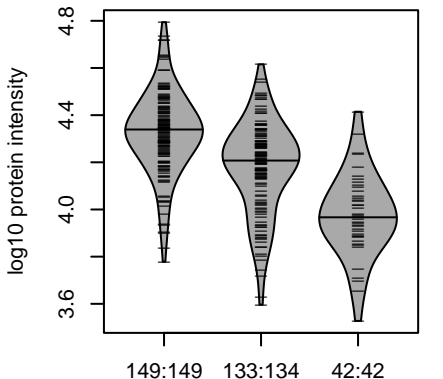
14:21250846:G:T_T
 $p = 3.5e-36$, $\beta = -0.549$, $N = 1254$

LVPVHLDSIL pc2

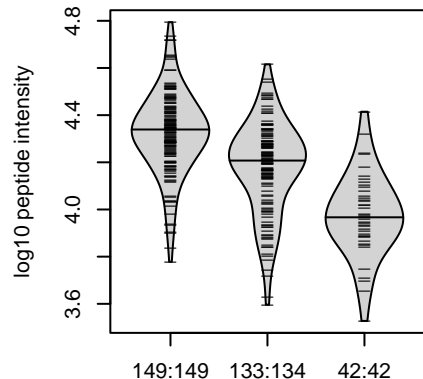
14:21250846:G:T_T
 $p = 1.8e-33$, $\beta = -0.529$, $N = 1254$

HQNTFLHDSFQNVAAVCDLLSIVCK pc2

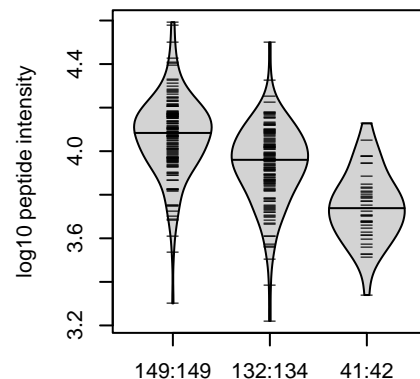
14:21250846:G:T_T
 $p = 3.2e-28$, $\beta = -0.5$, $N = 1194$

Q93091 NP3

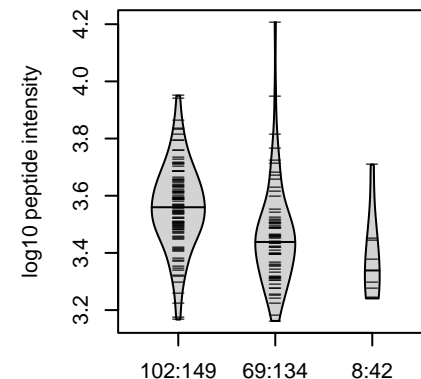
rs11622942
 $p = 2.5e-17$, $\beta = -0.639$, $N = 324$

LVPVHLDSIL pc2

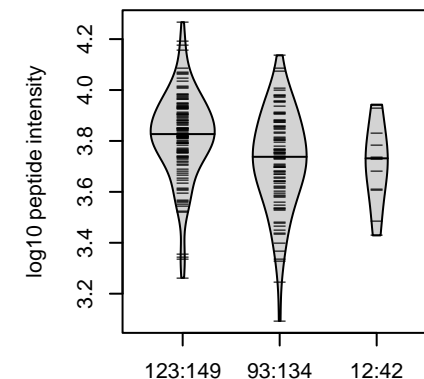
rs11622942
 $p = 4.8e-17$, $\beta = -0.63$, $N = 324$

FFIVACDPPQK pc2

rs11622942
 $p = 8.6e-16$, $\beta = -0.61$, $N = 322$

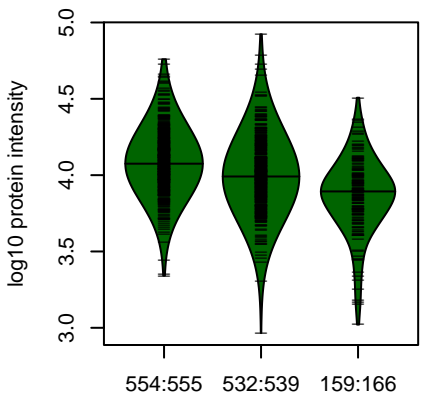
YSAAAQYK pc2

rs11622942
 $p = 4.7e-06$, $\beta = -0.561$, $N = 179$

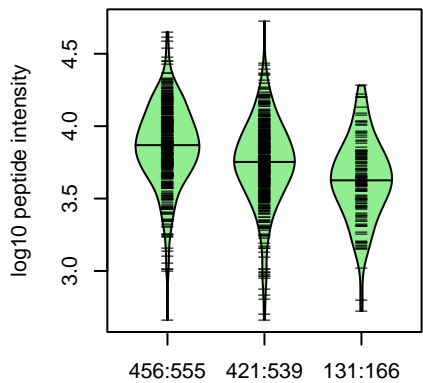
AHWFEIQHIQPSPLQCNR pc4

rs11622942
 $p = 0.00093$, $\beta = -0.358$, $N = 228$

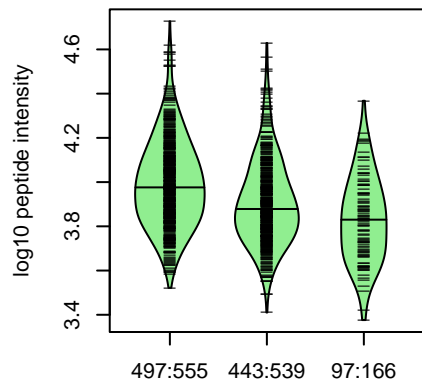
Locus: 36 (Sort: 43)
 Status: Replicated
 80% power: Yes
 SNP: 14:21250846:G:T
 rsID: rs11622942
 UniProtID: Q93091
 HGNC gene: RNASE6
 Type: Cis-pQTL

SPON2 [cis]

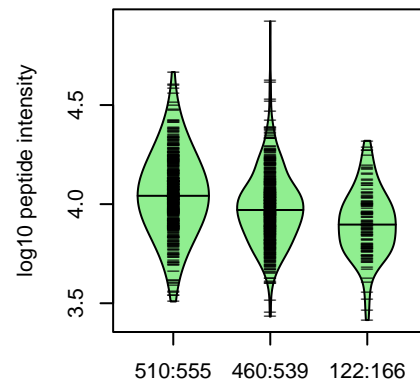
4:1165130:G:T_G
 $p = 5.4e-33$, $\beta = -0.478$, $N = 1245$

HLSVSFVVR pc2

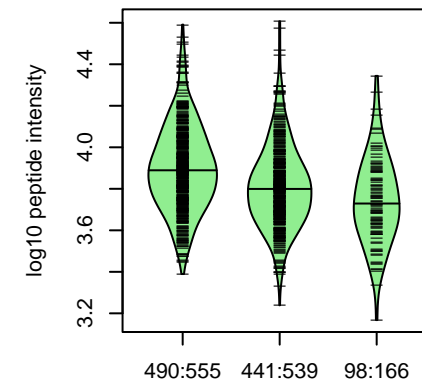
4:1165130:G:T_G
 $p = 8.2e-22$, $\beta = -0.425$, $N = 1008$

NQYVSNGLR pc2

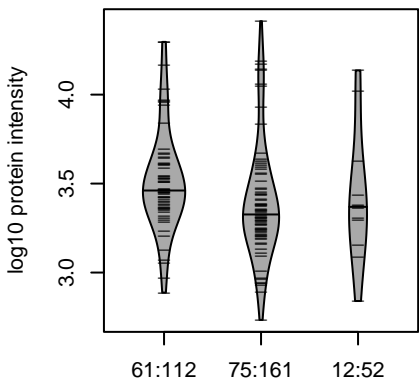
4:1165130:G:T_G
 $p = 2e-20$, $\beta = -0.431$, $N = 1037$

WSQTAFPK pc2

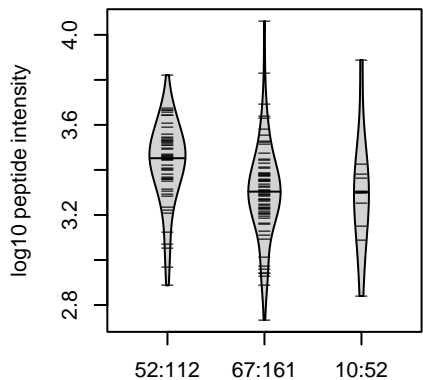
4:1165130:G:T_G
 $p = 7.4e-20$, $\beta = -0.401$, $N = 1092$

GEAWALMK pc2

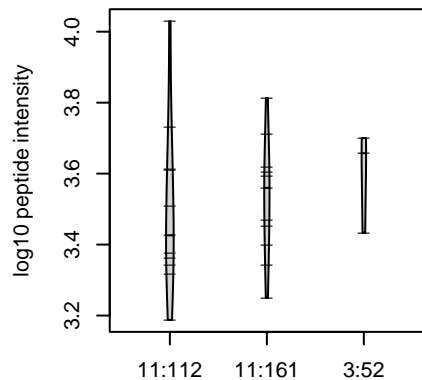
4:1165130:G:T_G
 $p = 1e-19$, $\beta = -0.423$, $N = 1029$

Q9BUD6 NP5

rs11247975
 $p = 0.0028$, $\beta = -0.387$, $N = 148$

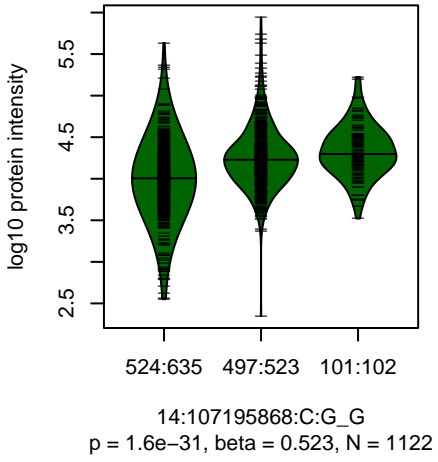
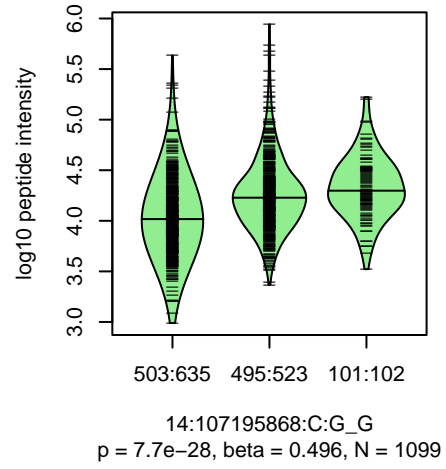
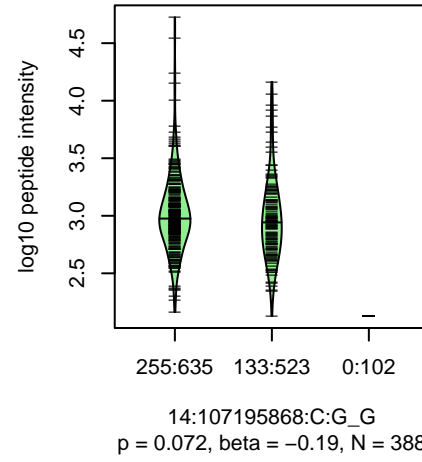
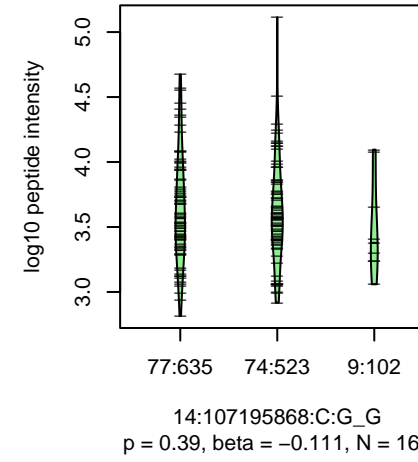
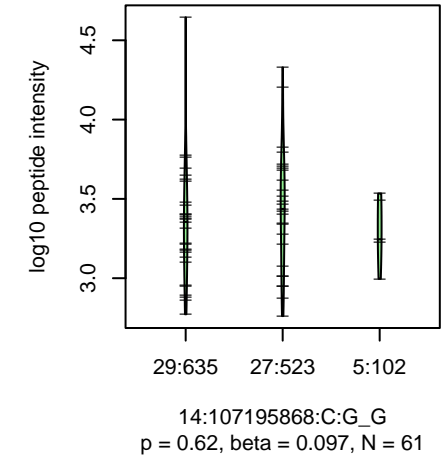
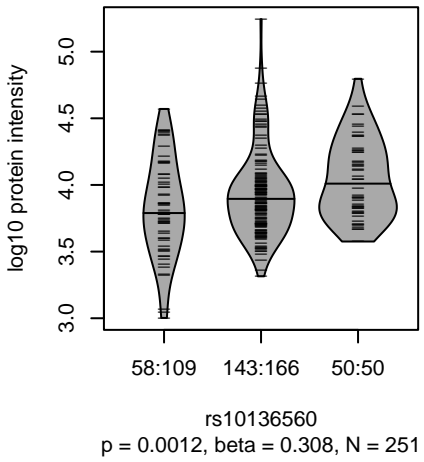
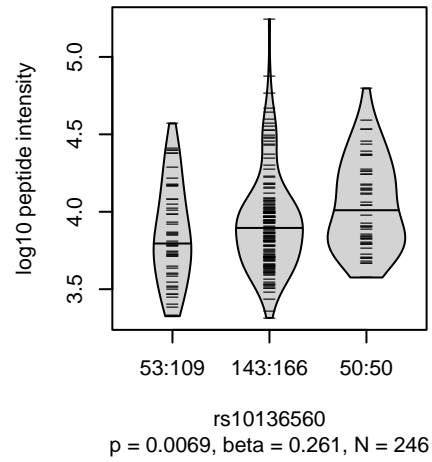
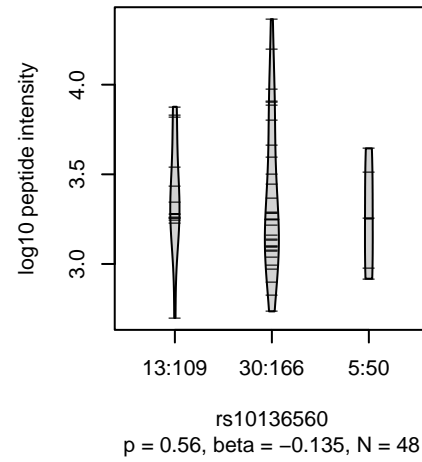
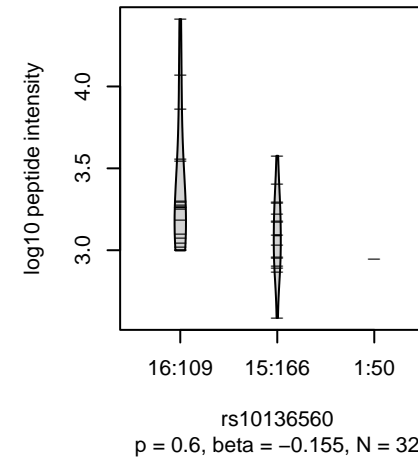
HLSVSFVVR pc2

rs11247975
 $p = 0.00054$, $\beta = -0.475$, $N = 129$

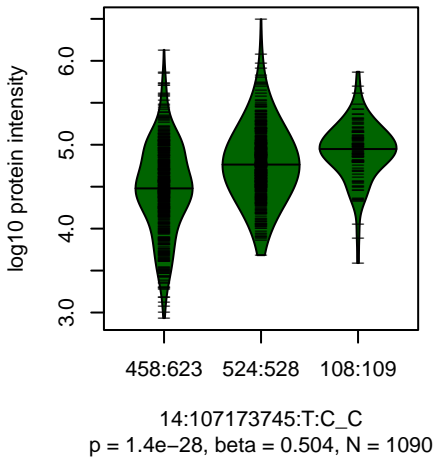
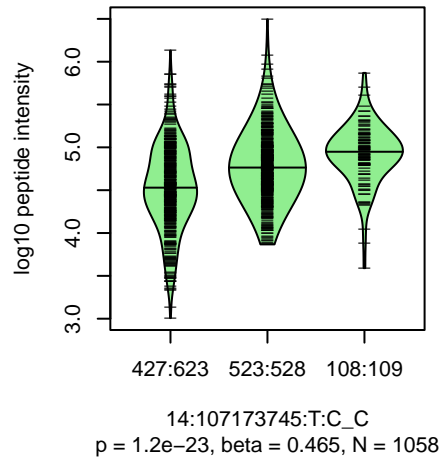
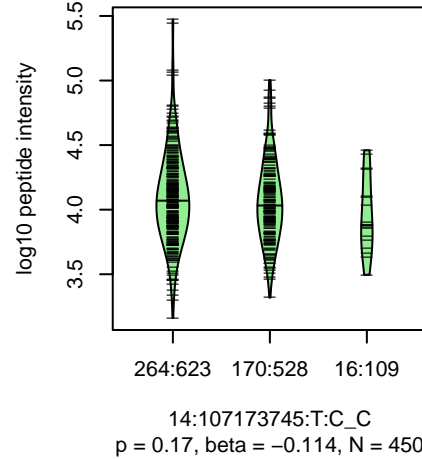
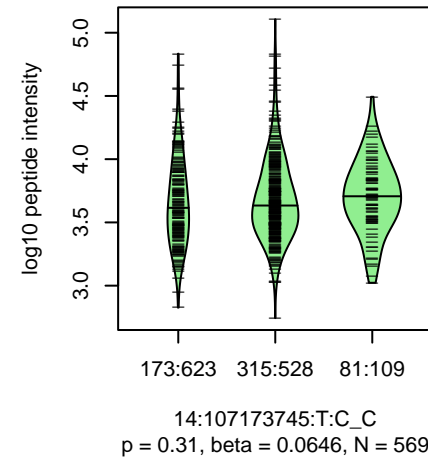
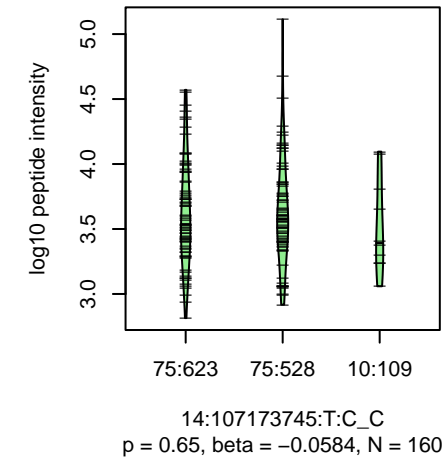
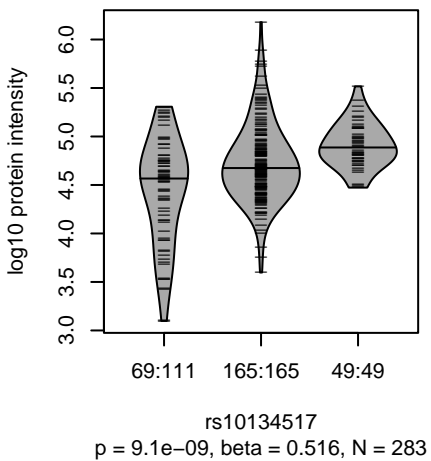
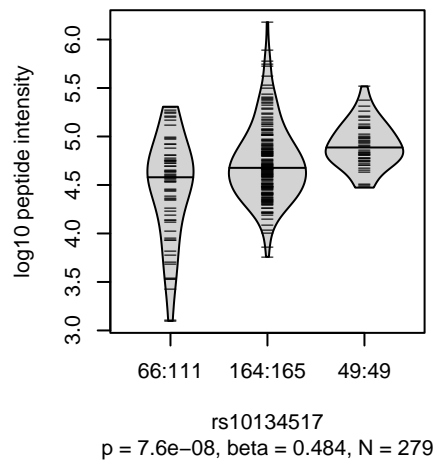
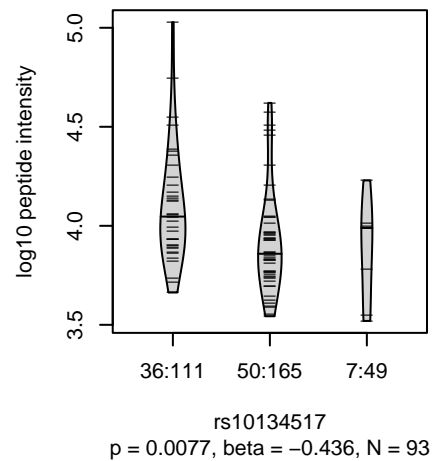
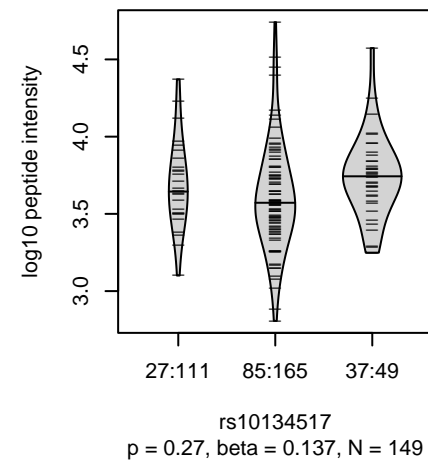
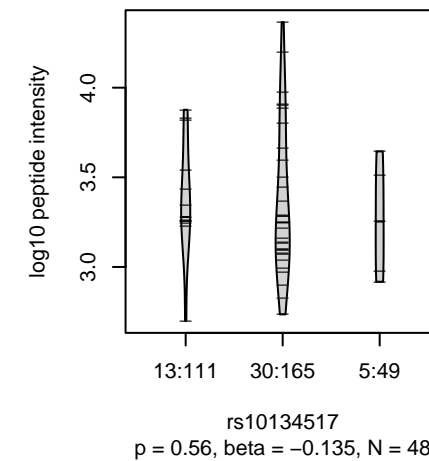
YSITFTGK pc2

rs11247975
 $p = 0.58$, $\beta = 0.151$, $N = 25$

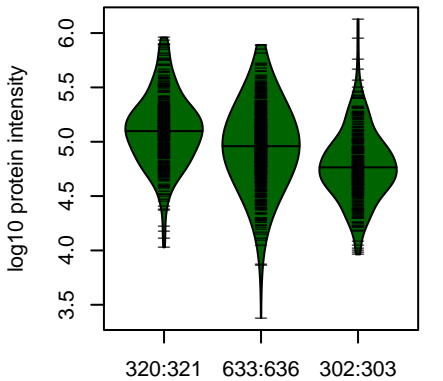
Locus: 37 (Sort: 44)
 Status: Not replicated
 80% power: No
 SNP: 4:1165130:G:T
 rsID: rs11247975
 UniProtID: Q9BUD6
 HGNC gene: SPON2
 Type: Cis-pQTL

IGHV2-70 [cis]**YYTSLK pc2****ALEWLALIDWDDDK pc2****ESGPALVK pc2****NQVVLMTNMDPVDTATYYCAR pc2****P01814 NP3****YYTSLK pc2****ESGPALVK pc2****ALEWLALIDWDDDK pc2**

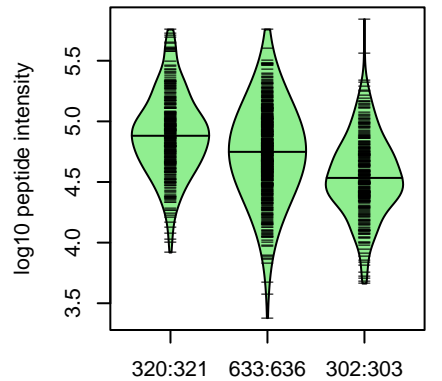
Locus: 38 (Sort: 45)
 Status: Not replicated
 80% power: Yes
 SNP: 14:107195868:C:G
 rsID: rs10136560
 UniProtID: P01814
 HGNC gene: IGHV2-70
 Type: Cis-pQTL

IGHV2-70 [cis]**ALEWLAR pc2****FYSTSLK pc2****IDWDDDK pc2****ESGPALVK pc2****A0A0C4DH43 NP3****ALEWLAR pc2****FYSTSLK pc2****IDWDDDK pc2****ESGPALVK pc2**

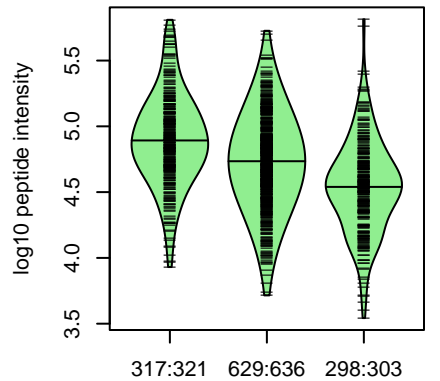
Locus: 38 (Sort: 46)
 Status: Replicated
 80% power: Yes
 SNP: 14:107173745:T:C
 rsID: rs10134517
 UniProtID: A0A0C4DH43
 HGNC gene: IGHV2-70
 Type: Cis-pQTL

PEBP4 [cis]

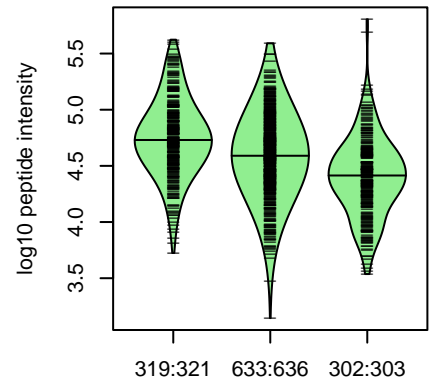
8:22584718:T:C_C
 $p = 1.9e-31$, $\beta = -0.454$, $N = 1255$

ITSWMEPIVK pc2

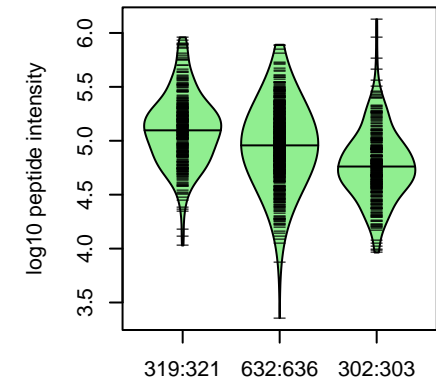
8:22584718:T:C_C
 $p = 4e-33$, $\beta = -0.466$, $N = 1255$

IQGQELSAIQAPSPPAHSGFHR pc

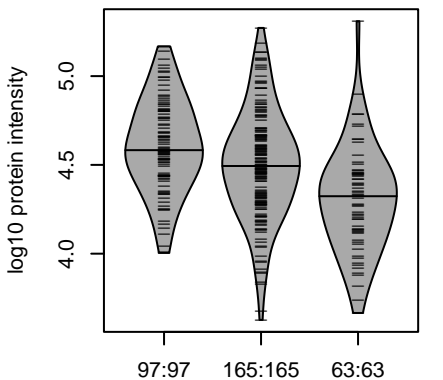
8:22584718:T:C_C
 $p = 9.5e-33$, $\beta = -0.465$, $N = 1244$

YQFFVYLQEGK pc2

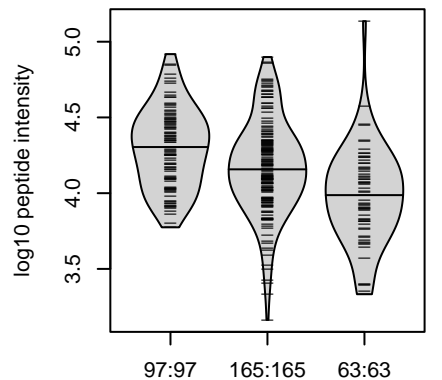
8:22584718:T:C_C
 $p = 6.9e-32$, $\beta = -0.457$, $N = 1254$

VVPDCNNYR pc2

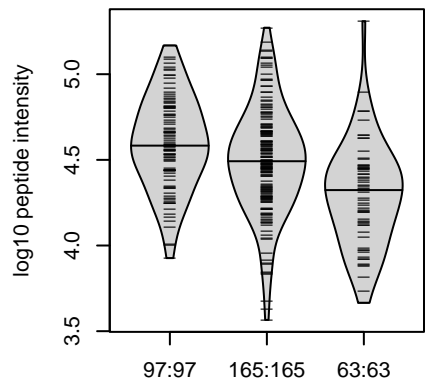
8:22584718:T:C_C
 $p = 1.3e-30$, $\beta = -0.448$, $N = 1253$

Q96S96 NP3

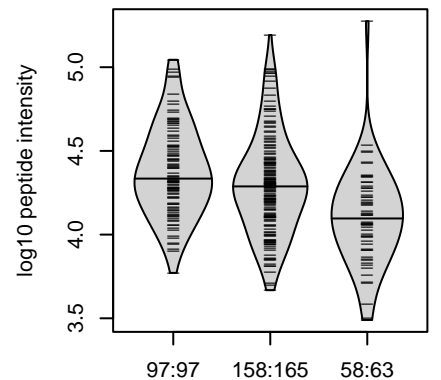
rs1129474
 $p = 2.6e-12$, $\beta = -0.529$, $N = 325$

YQFFVYLQEGK pc2

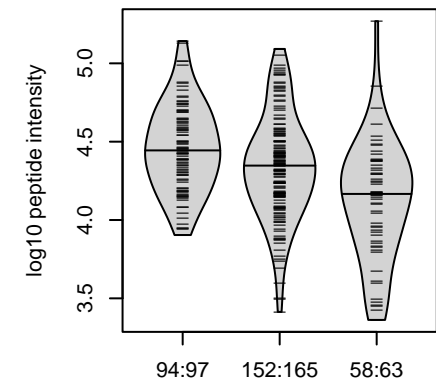
rs1129474
 $p = 1.4e-12$, $\beta = -0.539$, $N = 325$

ITSWMEPIVK pc2

rs1129474
 $p = 7e-12$, $\beta = -0.523$, $N = 325$

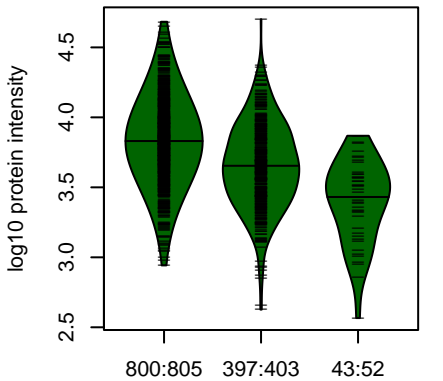
VVPDCNNYR pc2

rs1129474
 $p = 9.2e-11$, $\beta = -0.505$, $N = 313$

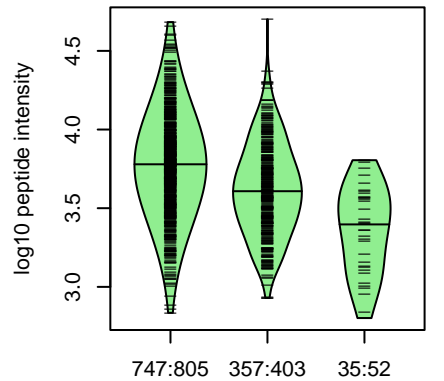
IQGQELSAIQAPSPPAHSGFHR pc

rs1129474
 $p = 1.7e-10$, $\beta = -0.502$, $N = 304$

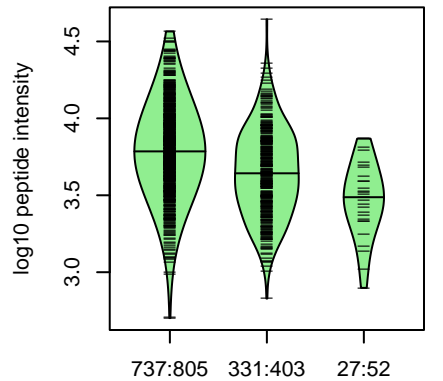
Locus: 39 (Sort: 47)
 Status: Replicated
 80% power: Yes
 SNP: 8:22584718:T:C
 rsID: rs1129474
 UniProtID: Q96S96
 HGNC gene: PEBP4
 Type: Cis-pQTL

C1QTNF9 [cis]

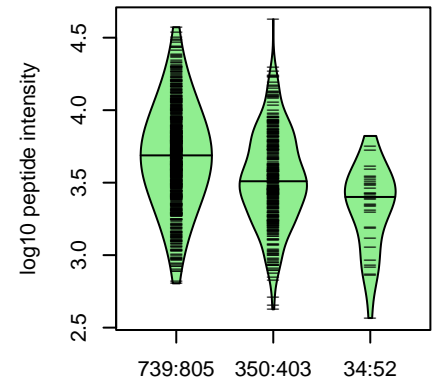
13:24891017:C:A_C
 $p = 8.9e-31$, $\beta = -0.573$, $N = 1240$

IGETLVLPK pc2

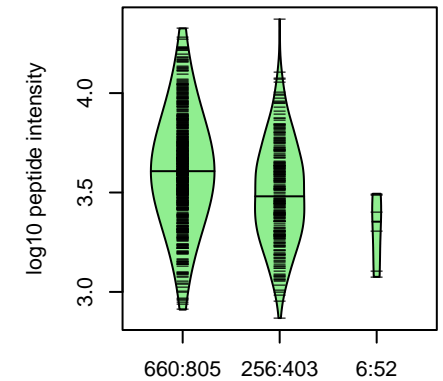
13:24891017:C:A_C
 $p = 2.5e-21$, $\beta = -0.504$, $N = 1139$

ILYNEFNHYDTAAGK pc3

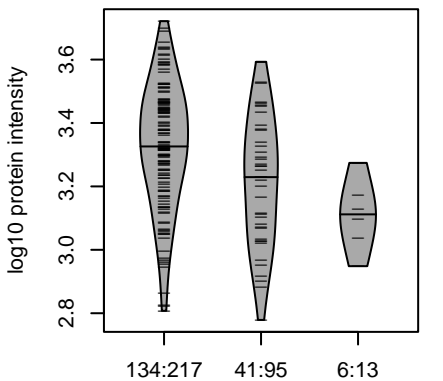
13:24891017:C:A_C
 $p = 8.2e-18$, $\beta = -0.483$, $N = 1095$

SAFTVGLTVLSK pc2

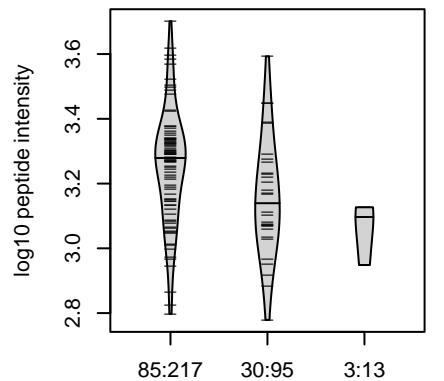
13:24891017:C:A_C
 $p = 1e-17$, $\beta = -0.462$, $N = 1123$

LGDEVWLQVTGGER pc2

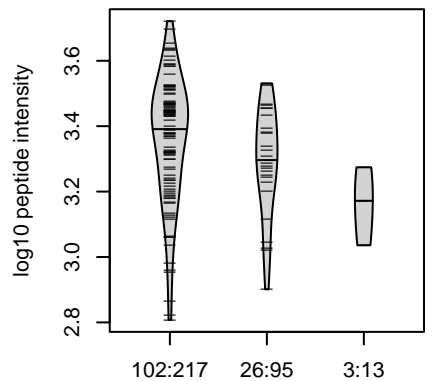
13:24891017:C:A_C
 $p = 3.1e-09$, $\beta = -0.411$, $N = 922$

P0C862 NP4

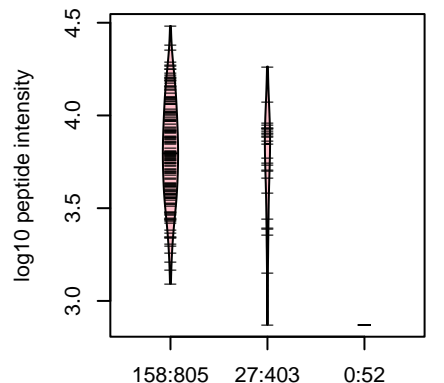
rs1961993
 $p = 0.0021$, $\beta = -0.425$, $N = 181$

IGETLVLPK pc2

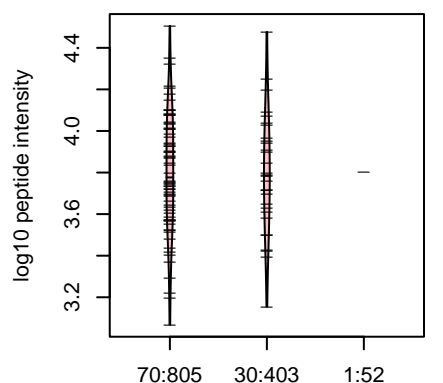
rs1961993
 $p = 0.02$, $\beta = -0.403$, $N = 118$

ILYNEFNHYDTAAGK pc3

rs1961993
 $p = 0.075$, $\beta = -0.314$, $N = 131$

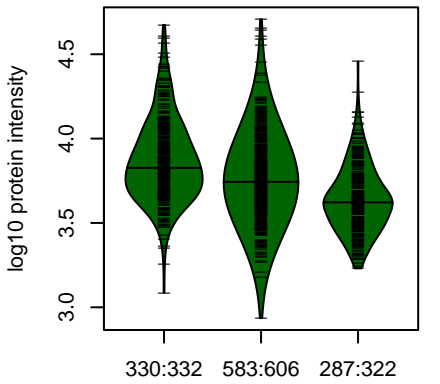
**FPSSDVPIK pc2
rs3751357 ALT**

13:24891017:C:A_C
 $p = 4.6e-12$, $\text{model} = \text{REC}$, $N = 185$

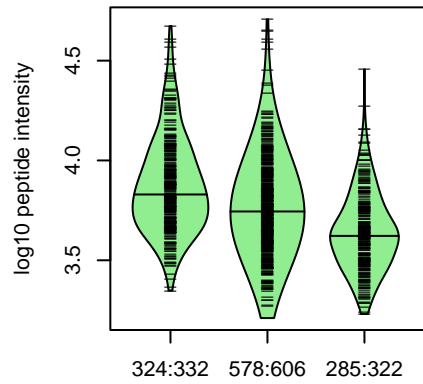
**FPSSDMPK pc2
rs3751357 REF**

13:24891017:C:A_C
 $p = 0.12$, $\text{model} = \text{DOM}$, $N = 101$

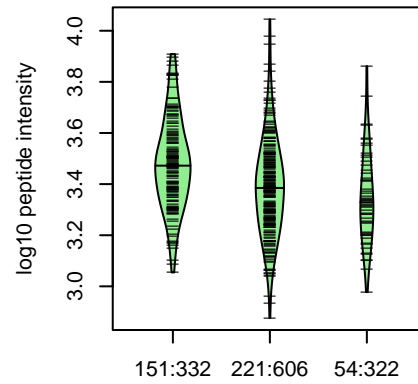
Locus: 40 (Sort: 48)
 Status: Not replicated
 80% power: No
 SNP: 13:24891017:C:A
 rsID: rs1961993
 UniProtID: P0C862
 HGNC gene: C1QTNF9
 Type: Cis-pQTL

SRL [cis]

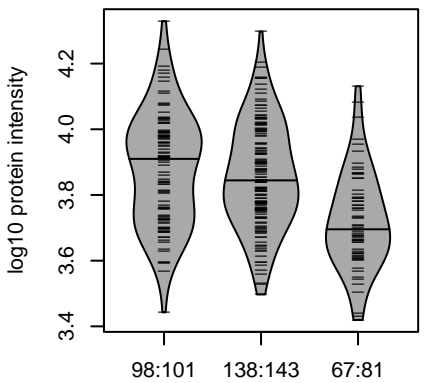
16:4257286:T:C_T
 $p = 9.5e-31$, $\beta = -0.45$, $N = 1200$

ALYADTAPQDK pc2

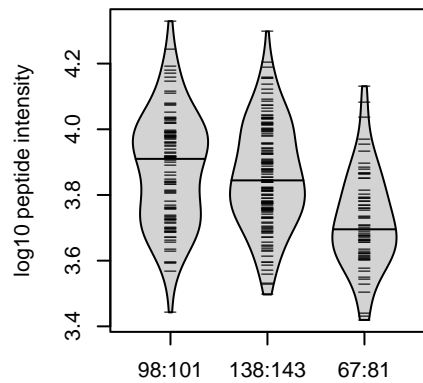
16:4257286:T:C_T
 $p = 1.9e-32$, $\beta = -0.465$, $N = 1187$

LLLHYPDGR pc2

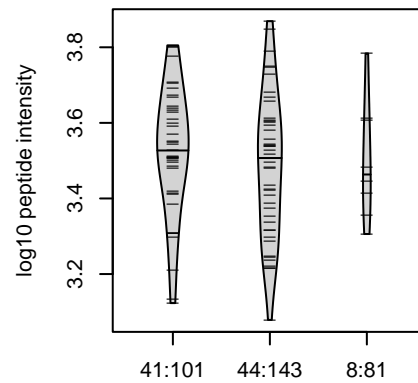
16:4257286:T:C_T
 $p = 3.3e-07$, $\beta = -0.368$, $N = 426$

I3L4D6 NP2

rs9924822
 $p = 6.2e-07$, $\beta = -0.377$, $N = 303$

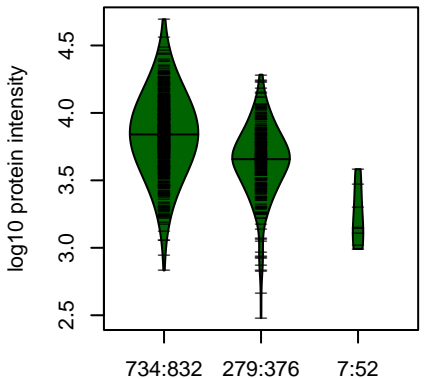
ALYADTAPQDK pc2

rs9924822
 $p = 5.2e-07$, $\beta = -0.382$, $N = 303$

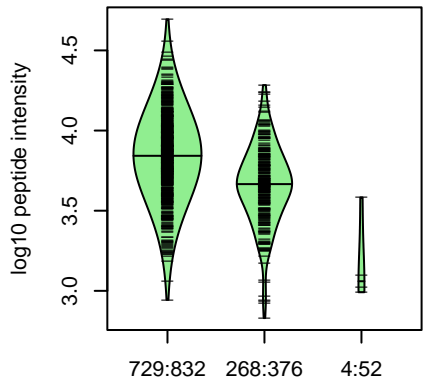
LLLHYPDGR pc2

rs9924822
 $p = 0.56$, $\beta = -0.0919$, $N = 93$

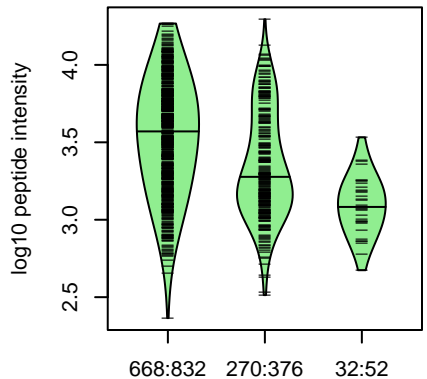
Locus: 41 (Sort: 49)
 Status: Replicated
 80% power: Yes
 SNP: 16:4257286:T:C
 rsID: rs9924822
 UniProtID: I3L4D6
 HGNC gene: SRL
 Type: Cis-pQTL

HLA-C [cis]

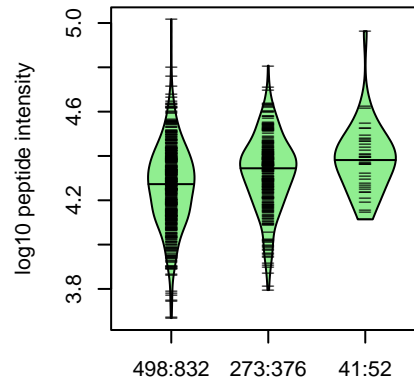
6:31323468:G:T_T
 $p = 1.2e-30$, $\beta = -0.743$, $N = 1020$

THVTHHPLSDHEATLR pc4

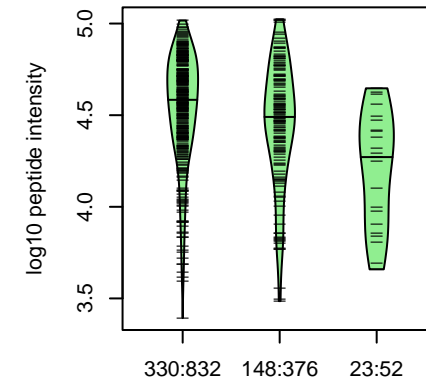
6:31323468:G:T_T
 $p = 1.4e-26$, $\beta = -0.716$, $N = 1001$

SWTAADTAAQITQR pc2

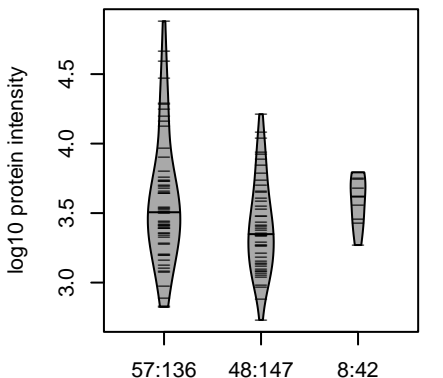
6:31323468:G:T_T
 $p = 1.6e-12$, $\beta = -0.413$, $N = 970$

FDSAASPR pc2

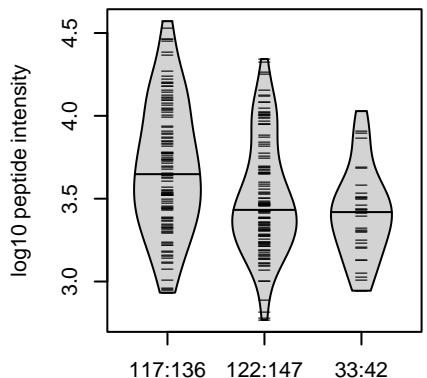
6:31323468:G:T_T
 $p = 3e-05$, $\beta = 0.246$, $N = 812$

DYIALNEDLR pc2

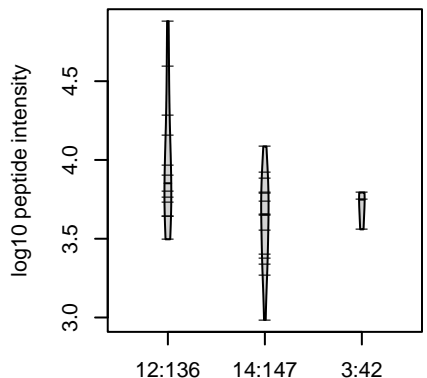
6:31323468:G:T_T
 $p = 0.0032$, $\beta = -0.227$, $N = 501$

P10321 NP1

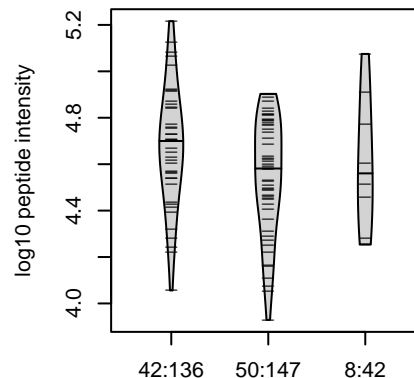
rs3897530
 $p = 0.72$, $\beta = -0.0525$, $N = 113$

SWTAADTAAQITQR pc2

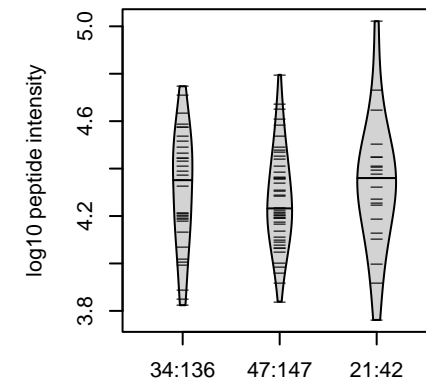
rs3897530
 $p = 3e-05$, $\beta = -0.364$, $N = 272$

THVTHHPLSDHEATLR pc4

rs3897530
 $p = 0.052$, $\beta = -0.504$, $N = 29$

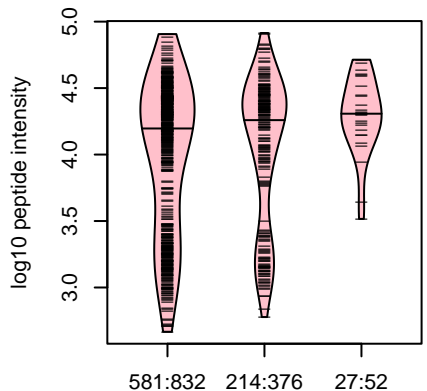
DYIALNEDLR pc2

rs3897530
 $p = 0.061$, $\beta = -0.292$, $N = 100$

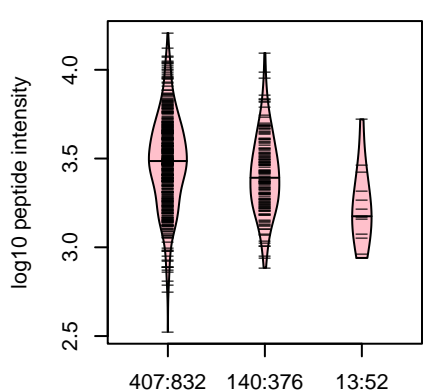
FDSAASPR pc2

rs3897530
 $p = 0.56$, $\beta = 0.0769$, $N = 102$

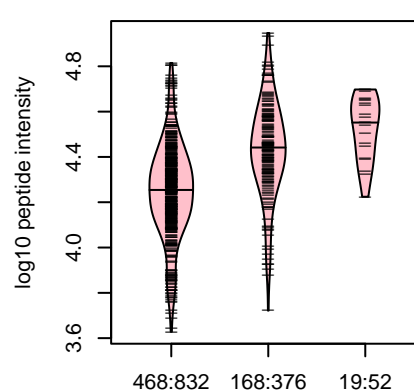
Locus: 42 (Sort: 50)
 Status: Not replicated
 80% power: No
 SNP: 6:31323468:G:T
 rsID: rs3897530
 UniProtID: P10321
 HGNC gene: HLA-C
 Type: Cis-pQTL

**WAAVVVPSGQEQR pc2
rs707908 REF**

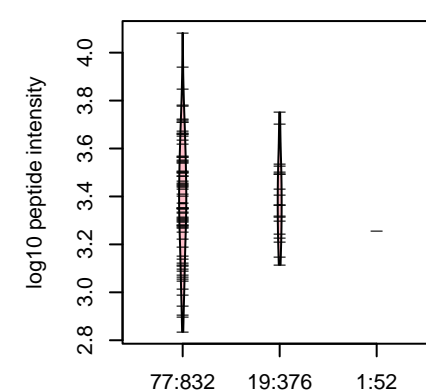
6:31323468:G:T_T
 $p = 2.6e-06$, model = REC, $N = 822$

**AYLEGCVEWLR pc2
rs1050686 REF**

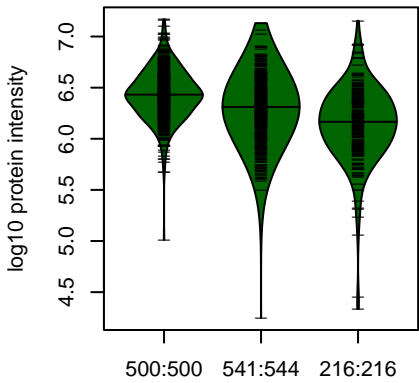
6:31323468:G:T_T
 $p = 9.1e-06$, model = REC, $N = 560$

**FISVGYVDDTQFVR pc2
rs1050437 REF**

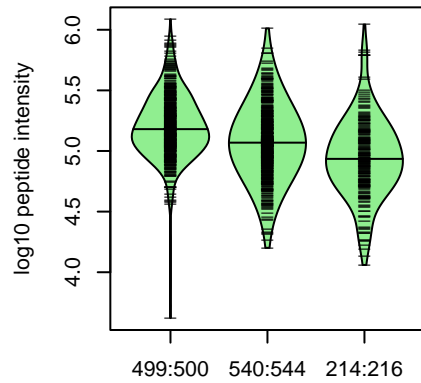
6:31323468:G:T_T
 $p = 3e-05$, model = REC, $N = 655$

**AYLEGCVEWLR pc3
rs1050686 REF**

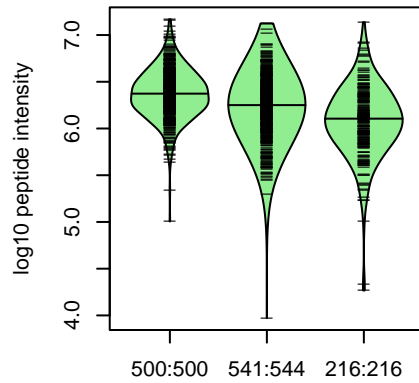
6:31323468:G:T_T
 $p = 0.0036$, model = REC, $N = 97$

FGL1 [cis]

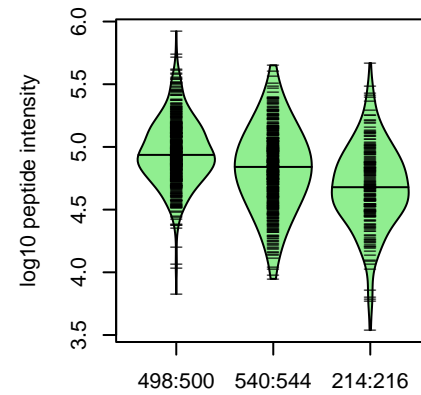
8:17722867:G:C_G
 $p = 8.5e-30$, $\beta = -0.431$, $N = 1257$

HGEYWLGNK pc2

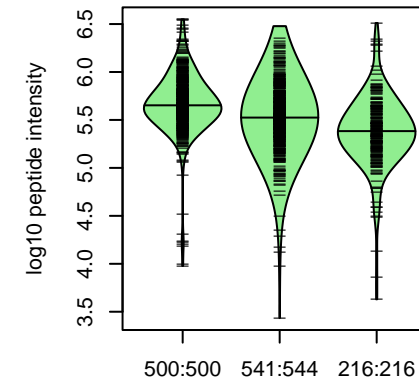
8:17722867:G:C_G
 $p = 7.9e-30$, $\beta = -0.433$, $N = 1253$

IRPNDFIPNVI pc2

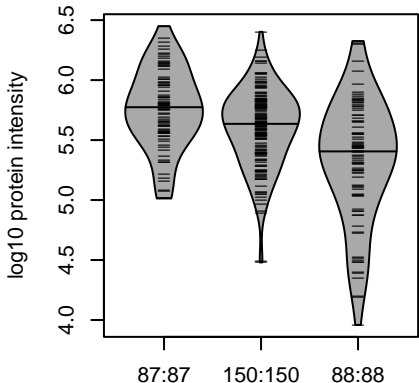
8:17722867:G:C_G
 $p = 8.4e-28$, $\beta = -0.416$, $N = 1257$

NLHFLTQEDYTLK pc2

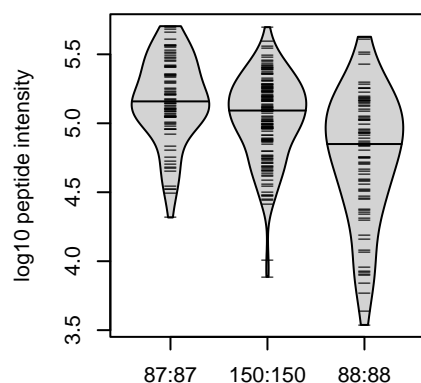
8:17722867:G:C_G
 $p = 1.3e-27$, $\beta = -0.416$, $N = 1252$

SDGSENFNR pc2

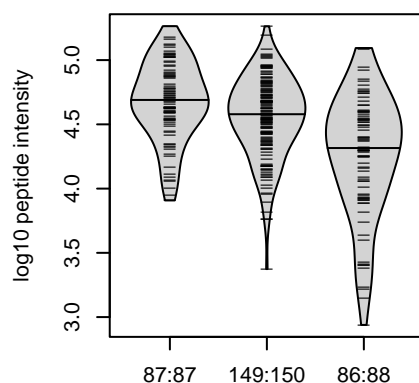
8:17722867:G:C_G
 $p = 1.6e-27$, $\beta = -0.414$, $N = 1257$

Q08830 NP5

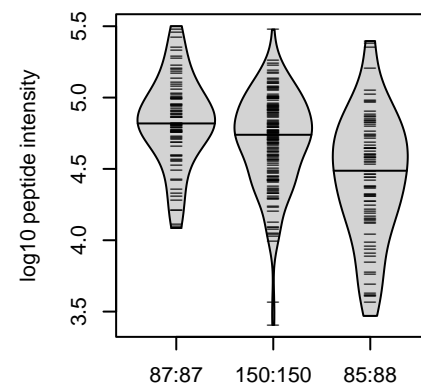
rs7818801
 $p = 5.6e-10$, $\beta = -0.449$, $N = 325$

QLLQENEVQFLDK pc2

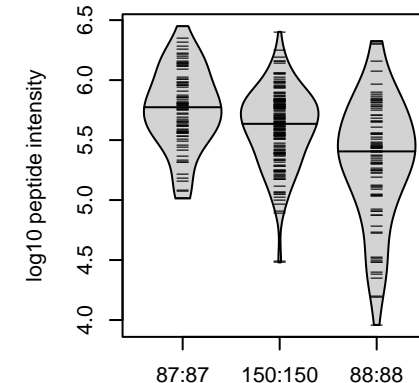
rs7818801
 $p = 8.2e-11$, $\beta = -0.47$, $N = 325$

NLHFLTQEDYTLK pc2

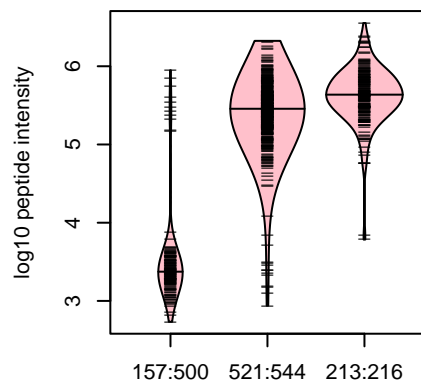
rs7818801
 $p = 8.9e-11$, $\beta = -0.472$, $N = 322$

SDGSENFNR pc2

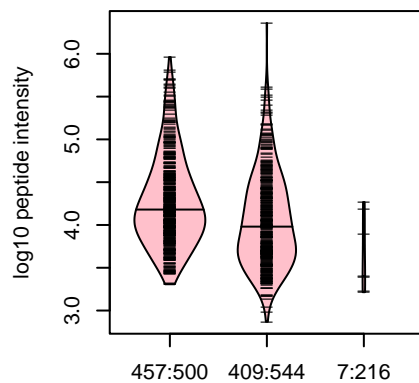
rs7818801
 $p = 5.2e-10$, $\beta = -0.454$, $N = 322$

IRPNDFIPNVI pc2

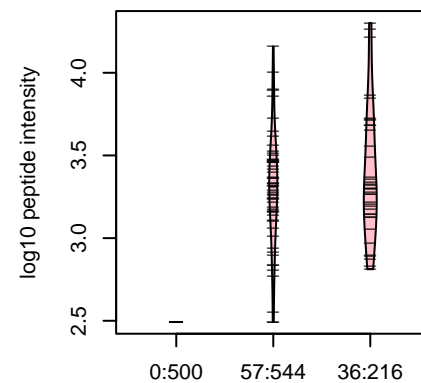
rs7818801
 $p = 5.8e-10$, $\beta = -0.449$, $N = 325$

**GDENTVIDLGSK pc2
rs3739406 REF**

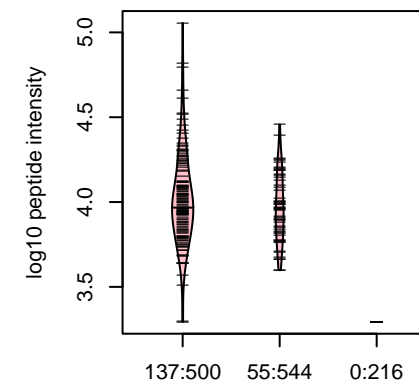
8:17722867:G:C_G
 $p = 3.4e-148$, $\text{model} = \text{REC}$, $N = 891$

**GDENTVVDLGSK pc2
rs3739406 ALT**

8:17722867:G:C_G
 $p = 1.9e-118$, $\text{model} = \text{DOM}$, $N = 873$

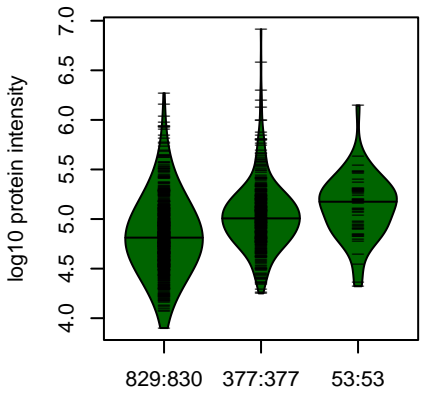
**GDENTVIDLGSKR pc2
rs3739406 REF**

8:17722867:G:C_G
 $p = 4.5e-22$, $\text{model} = \text{REC}$, $N = 93$

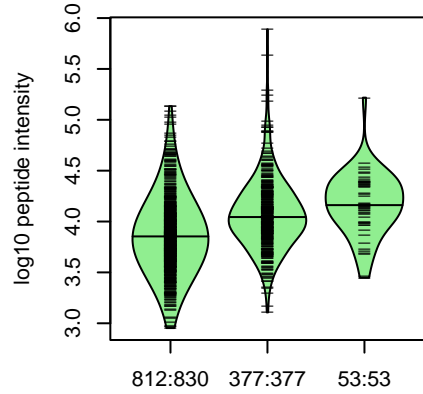
**GDENTVVDLGSKR pc2
rs3739406 ALT**

8:17722867:G:C_G
 $p = 7.3e-22$, $\text{model} = \text{REC}$, $N = 192$

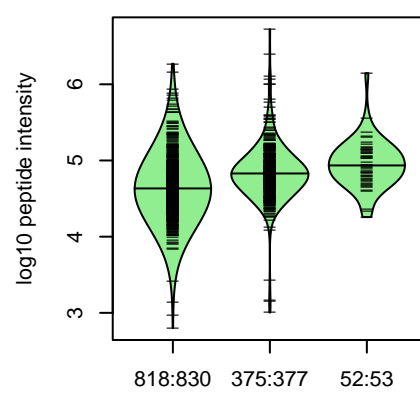
Locus: 43 (Sort: 51)
 Status: Replicated
 80% power: Yes
 SNP: 8:17722867:G:C
 rsID: rs7818801
 UniProtID: Q08830
 HGNC gene: FGL1
 Type: Cis-pQTL

PLA2G2A [cis]

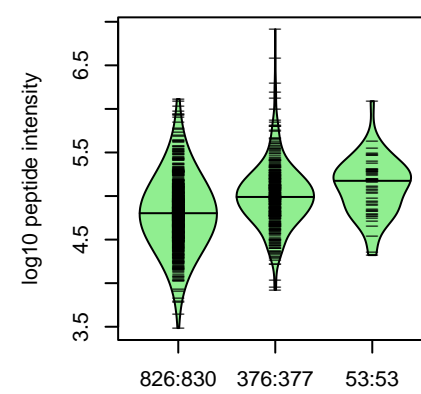
1:20304857:G:A_A
 $p = 1.5e-29$, $\beta = 0.546$, $N = 1259$

CCVTHDCCYK pc3

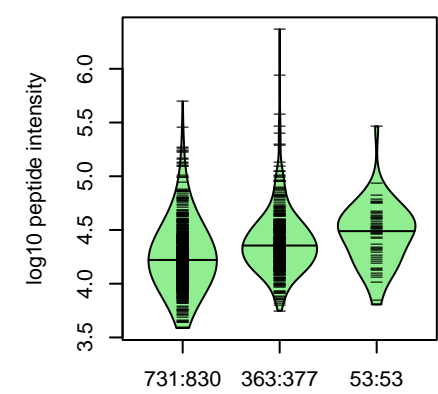
1:20304857:G:A_A
 $p = 7.1e-31$, $\beta = 0.559$, $N = 1242$

SQLCECDK pc2

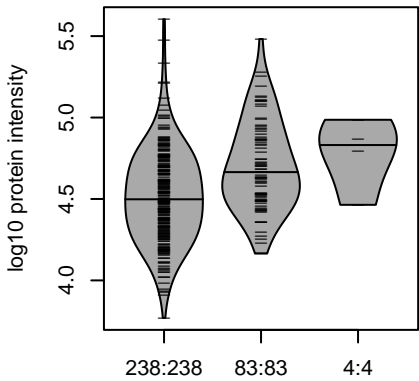
1:20304857:G:A_A
 $p = 1.1e-30$, $\beta = 0.559$, $N = 1245$

AAATCFAR pc2

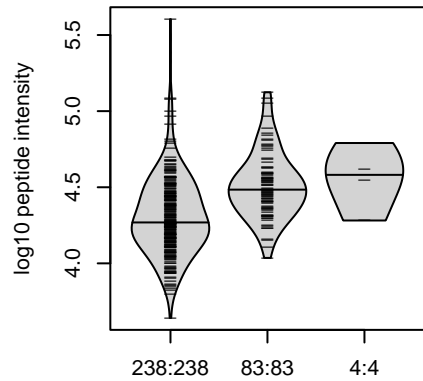
1:20304857:G:A_A
 $p = 8.9e-26$, $\beta = 0.51$, $N = 1255$

YQYYSNK pc2

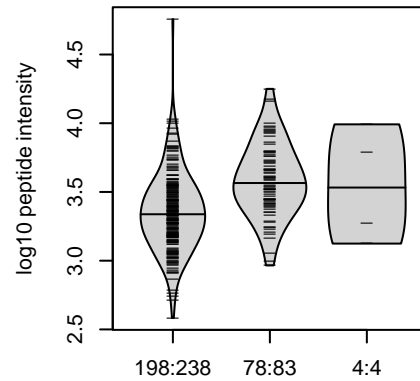
1:20304857:G:A_A
 $p = 3.3e-21$, $\beta = 0.472$, $N = 1147$

P14555 NP4

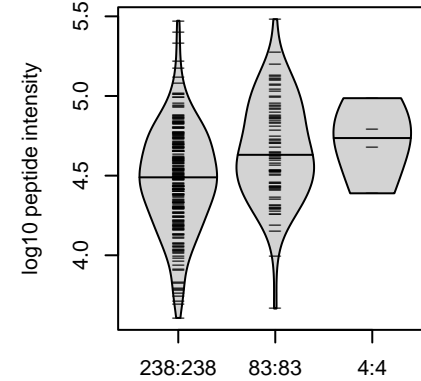
rs2307246
 $p = 1.3e-08$, $\beta = 0.634$, $N = 325$

SQLCECDK pc2

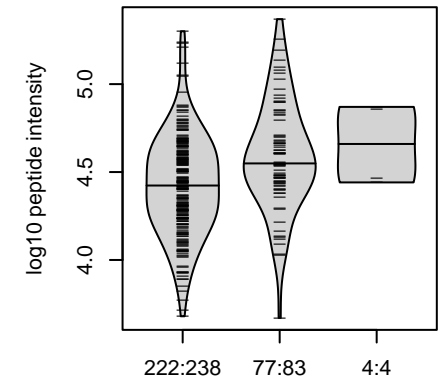
rs2307246
 $p = 1.4e-13$, $\beta = 0.818$, $N = 325$

CCVTHDCCYK pc2

rs2307246
 $p = 1.5e-10$, $\beta = 0.742$, $N = 280$

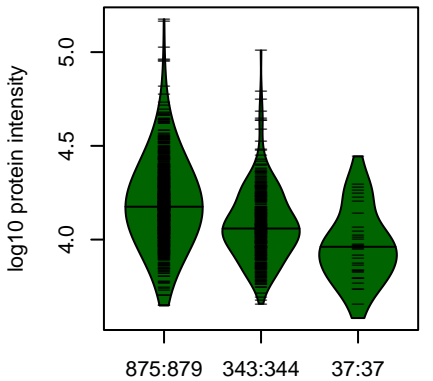
EAALSYGFYGCHCGVGGR pc3

rs2307246
 $p = 5.2e-06$, $\beta = 0.517$, $N = 325$

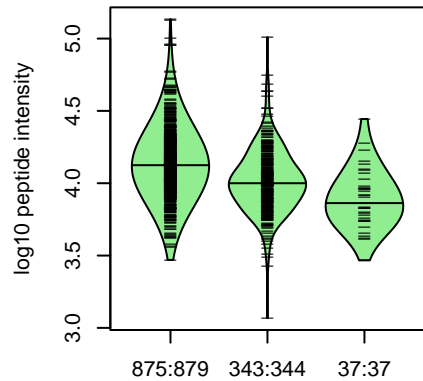
AAATCFAR pc2

rs2307246
 $p = 1.3e-05$, $\beta = 0.51$, $N = 303$

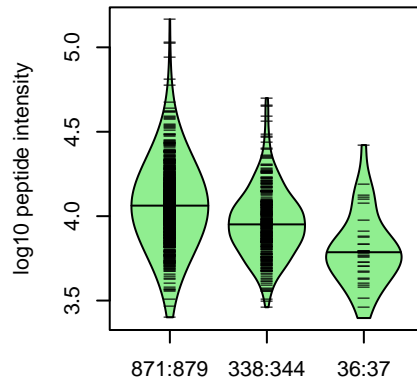
Locus: 44 (Sort: 52)
 Status: Replicated
 80% power: Yes
 SNP: 1:20304857:G:A
 rsID: rs2307246
 UniProtID: P14555
 HGNC gene: PLA2G2A
 Type: Cis-pQTL

COL15A1 [cis]

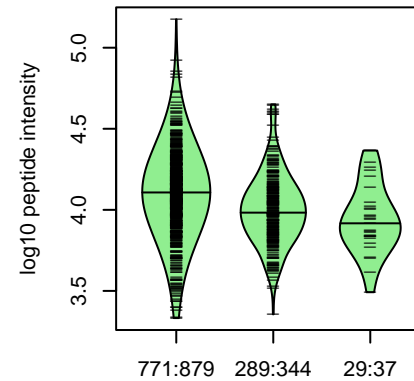
9:101762528:C:T_T
 $p = 2e-29$, $\beta = -0.583$, $N = 1255$

GGVLFAITDAFQK pc2

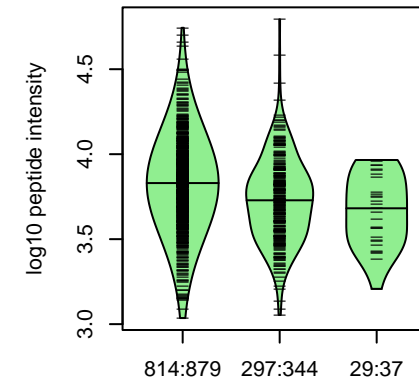
9:101762528:C:T_T
 $p = 2.7e-26$, $\beta = -0.55$, $N = 1255$

IILYYTEPGSHVSQEAAAFSVPVMTHR

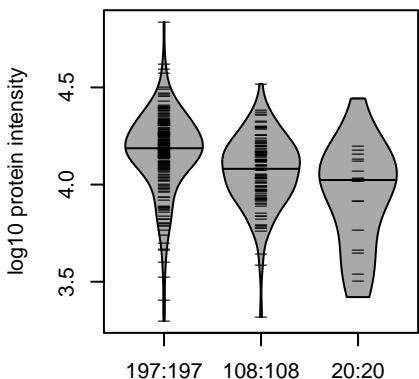
9:101762528:C:T_T
 $p = 5.4e-26$, $\beta = -0.551$, $N = 1245$

VIYLGLR pc2

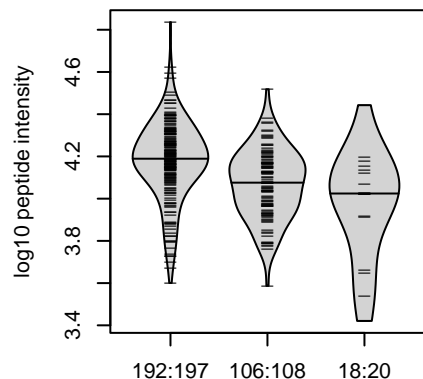
9:101762528:C:T_T
 $p = 1.1e-12$, $\beta = -0.408$, $N = 1089$

TLIPSTFFR pc2

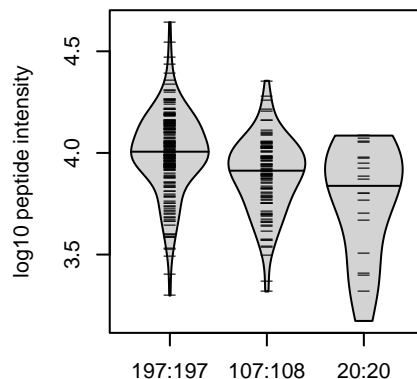
9:101762528:C:T_T
 $p = 6.6e-11$, $\beta = -0.37$, $N = 1140$

P39059 NP2

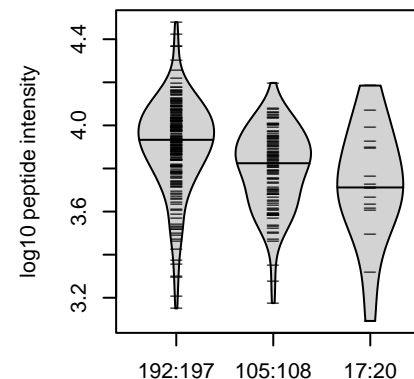
rs57410362
 $p = 1.8e-07$, $\beta = -0.462$, $N = 325$

VIYLGLR pc2

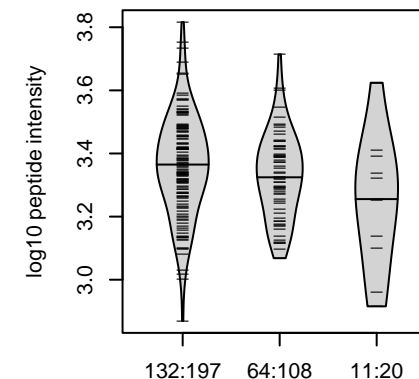
rs57410362
 $p = 7.9e-09$, $\beta = -0.52$, $N = 316$

GGVLFAITDAFQK pc2

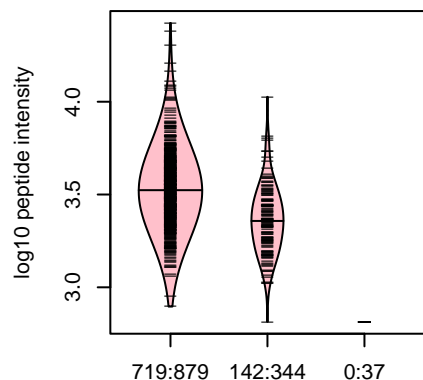
rs57410362
 $p = 4.5e-08$, $\beta = -0.482$, $N = 324$

IILYYTEPGSHVSQEAAAFSVPVMTHR

rs57410362
 $p = 1.4e-06$, $\beta = -0.443$, $N = 314$

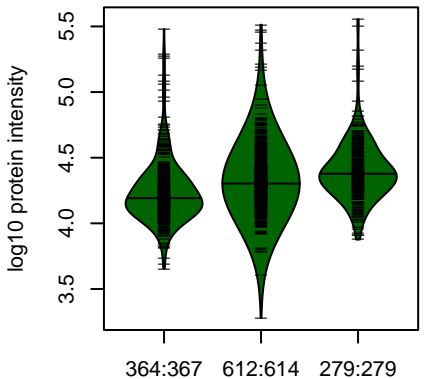
LSGVEDGHQR pc2

rs57410362
 $p = 0.053$, $\beta = -0.223$, $N = 207$

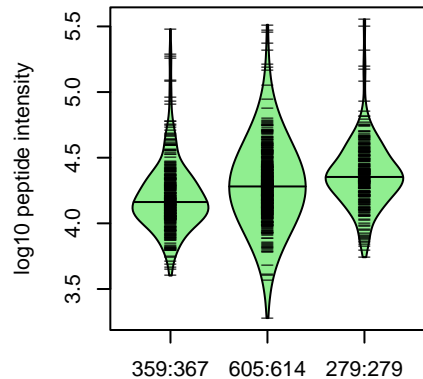
**FAMIVQGEEVTLNCEEHSR pc3
rs2075662 REF**

9:101762528:C:T_T
 $p = 4.2e-53$, $\text{model} = \text{REC}$, $N = 861$

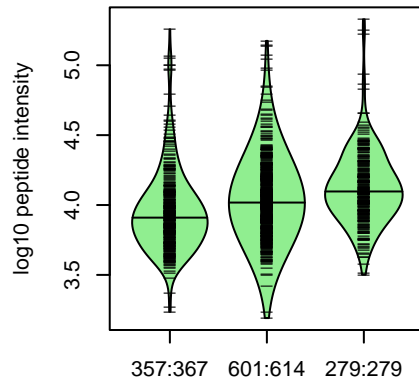
Locus: 45 (Sort: 53)
 Status: Replicated
 80% power: Yes
 SNP: 9:101762528:C:T
 rsID: rs57410362
 UniProtID: P39059
 HGNC gene: COL15A1
 Type: Cis-pQTL

COLEC12 [cis]

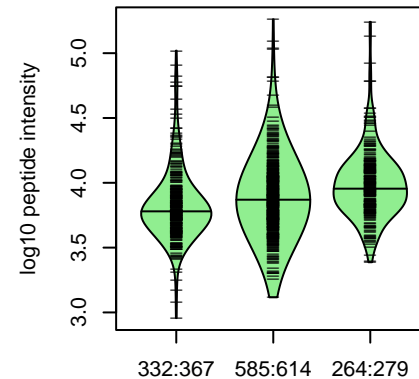
18:334742:C:T_T
 $p = 1.3e-28$, $\beta = 0.427$, $N = 1255$

WLDGTSPDYK pc2

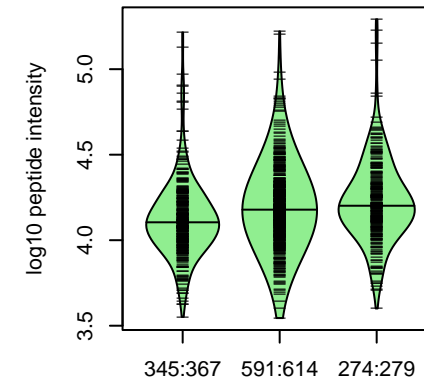
18:334742:C:T_T
 $p = 4e-25$, $\beta = 0.401$, $N = 1243$

SSHLVFINTR pc2

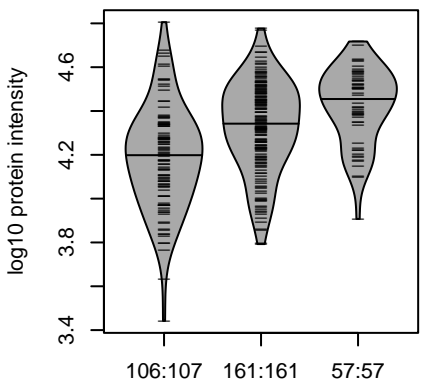
18:334742:C:T_T
 $p = 1.4e-22$, $\beta = 0.38$, $N = 1237$

ESHWIGLTDSERENEWK pc4

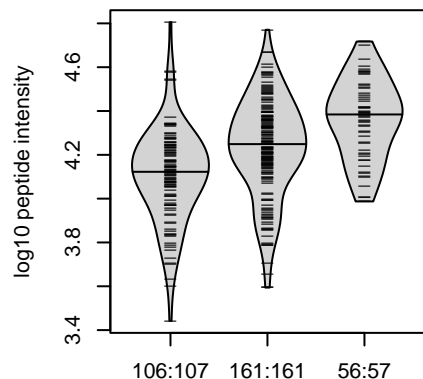
18:334742:C:T_T
 $p = 1.4e-19$, $\beta = 0.364$, $N = 1181$

DRETVLSSAL pc2

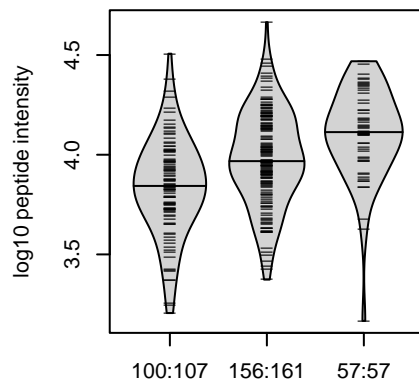
18:334742:C:T_T
 $p = 2.8e-11$, $\beta = 0.265$, $N = 1210$

Q5KU26 NP2

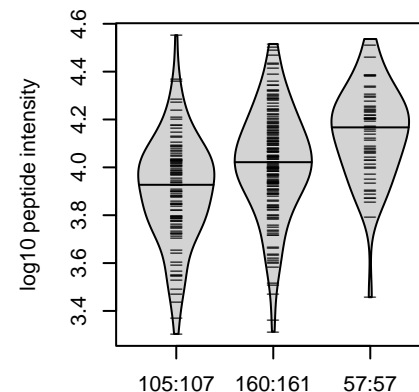
rs2305027
 $p = 2.6e-11$, $\beta = 0.521$, $N = 324$

WLDGTSPDYK pc2

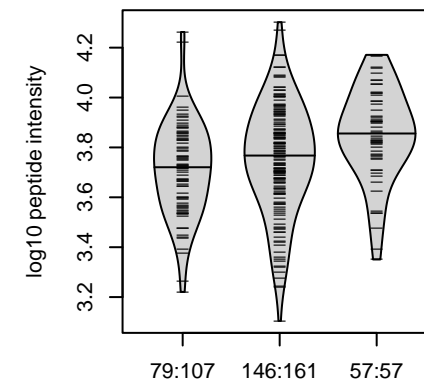
rs2305027
 $p = 6.2e-13$, $\beta = 0.55$, $N = 323$

SSHLVFINTR pc2

rs2305027
 $p = 2.4e-11$, $\beta = 0.518$, $N = 313$

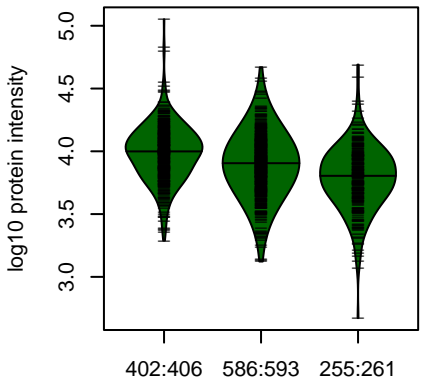
CYYFSVEK pc2

rs2305027
 $p = 6.2e-11$, $\beta = 0.503$, $N = 322$

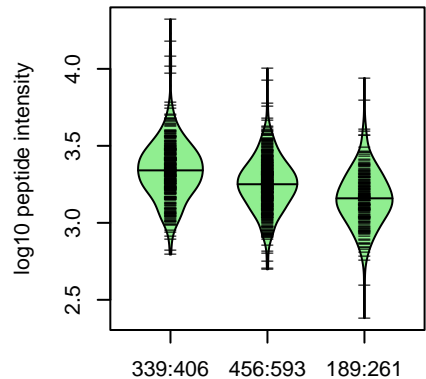
ESHWIGLTDSERENEWK pc4

rs2305027
 $p = 5.3e-05$, $\beta = 0.339$, $N = 282$

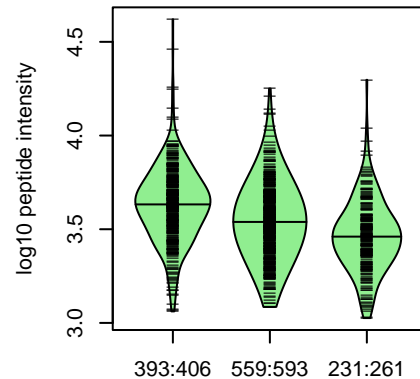
Locus: 46 (Sort: 54)
 Status: Replicated
 80% power: Yes
 SNP: 18:334742:C:T
 rsID: rs2305027
 UniProtID: Q5KU26
 HGNC gene: COLEC12
 Type: Cis-pQTL

FN3K [cis]

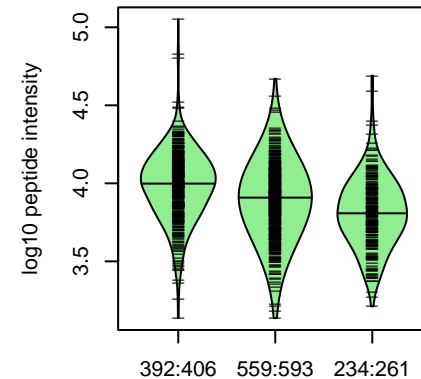
17:80792728:C:T_T
 $p = 1.5e-28$, $\beta = -0.426$, $N = 1243$

QMFEGEVASLEALR pc2

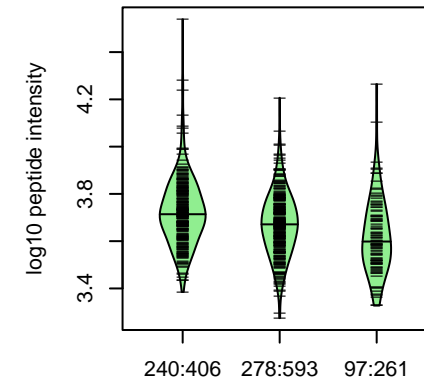
17:80792728:C:T_T
 $p = 8.2e-28$, $\beta = -0.47$, $N = 984$

AYDTDAGPVFVK pc2

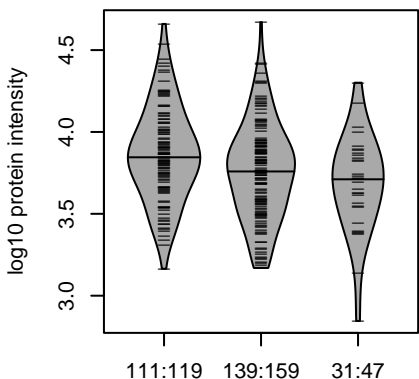
17:80792728:C:T_T
 $p = 2e-27$, $\beta = -0.43$, $N = 1183$

VIDLPGGGAAFVMEHLK pc3

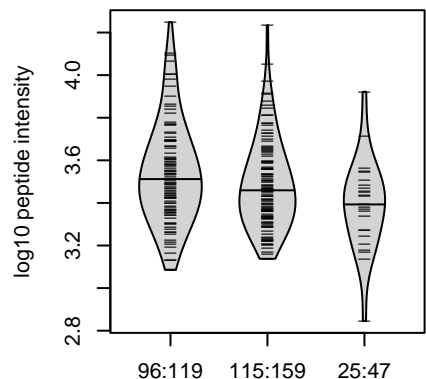
17:80792728:C:T_T
 $p = 1.4e-23$, $\beta = -0.397$, $N = 1185$

SPSLGTMR pc2

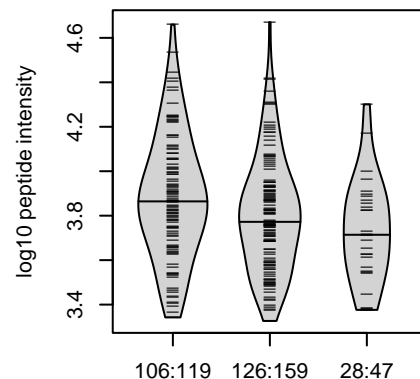
17:80792728:C:T_T
 $p = 1e-10$, $\beta = -0.362$, $N = 615$

Q9H479 NP1

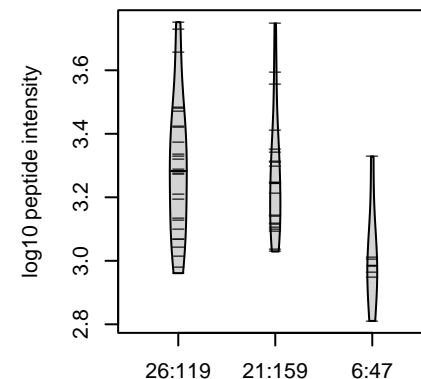
rs11654320
 $p = 0.00072$, $\beta = -0.305$, $N = 281$

AYDTDAGPVFVK pc2

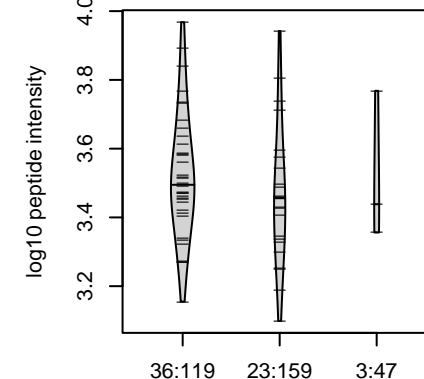
rs11654320
 $p = 0.0028$, $\beta = -0.292$, $N = 236$

VIDLPGGGAAFVMEHLK pc3

rs11654320
 $p = 0.01$, $\beta = -0.24$, $N = 260$

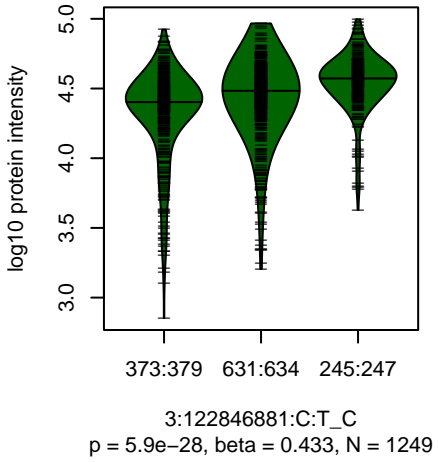
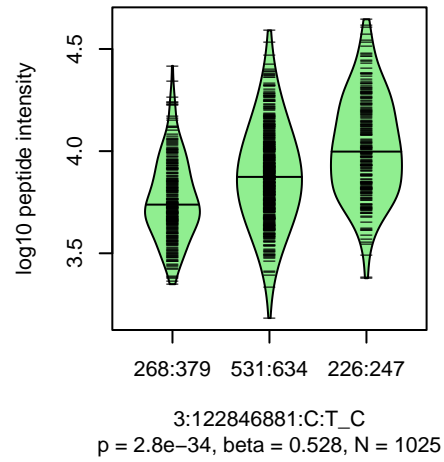
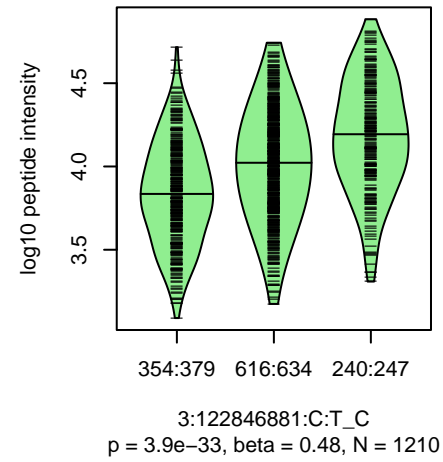
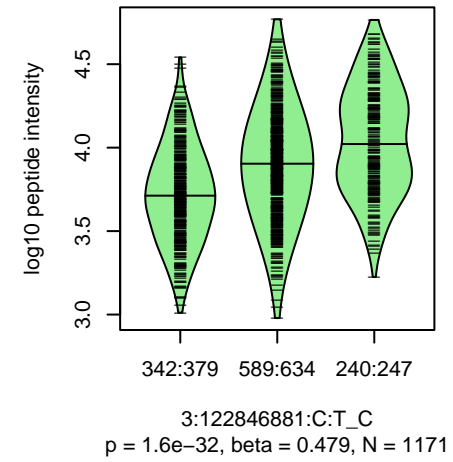
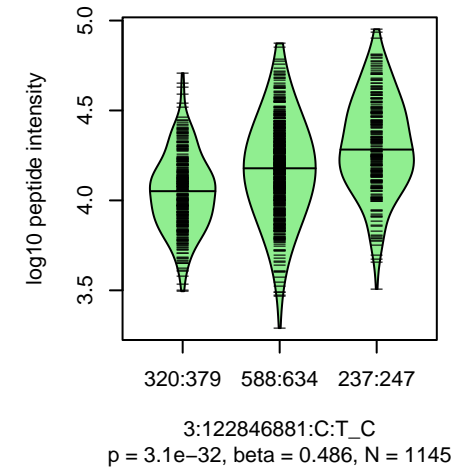
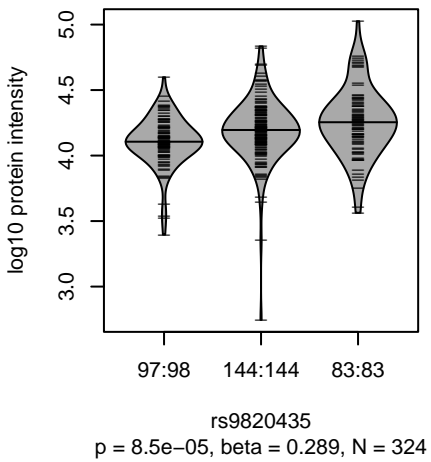
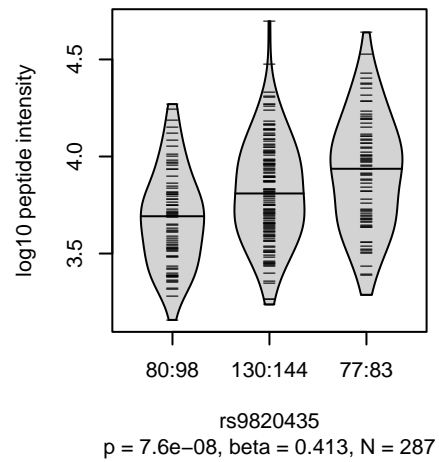
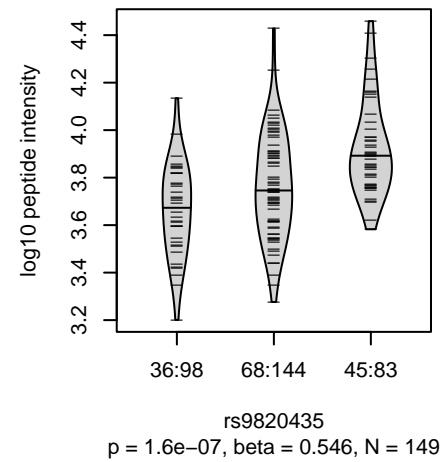
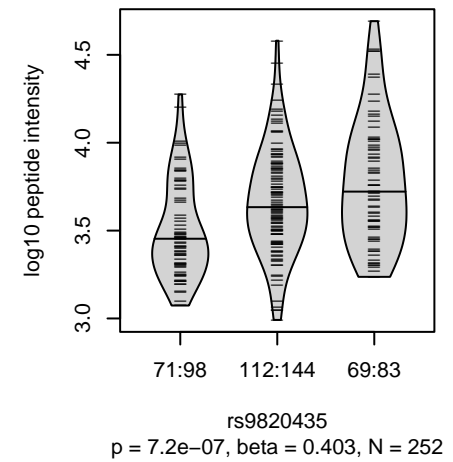
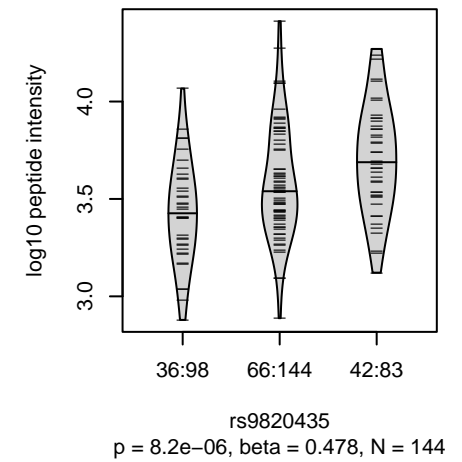
QMFEGEVASLEALR pc2

rs11654320
 $p = 0.03$, $\beta = -0.412$, $N = 53$

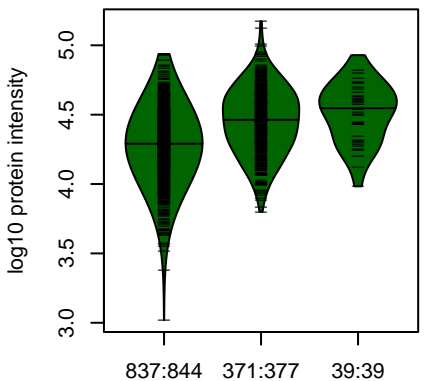
LGEQMADLHLYNQK pc3

rs11654320
 $p = 0.24$, $\beta = -0.241$, $N = 62$

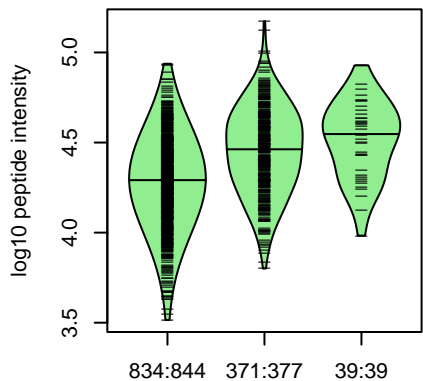
Locus: 47 (Sort: 55)
 Status: Not replicated
 80% power: Yes
 SNP: 17:80792728:C:T
 rsID: rs11654320
 UniProtID: Q9H479
 HGNC gene: FN3K
 Type: Cis-pQTL

PDIA5 [cis]**FHISEFPTLK pc2****AAEALHGEADSSGVLAAVDATVNK f****VIPHFTATADAFK pc3****IACAAVDCVK pc2****Q14554 NP1****AAEALHGEADSSGVLAAVDATVNK f****VIPHFTATADAFK pc2****SEVAAENHLR pc2****YDSRTELGFNTYIR pc3**

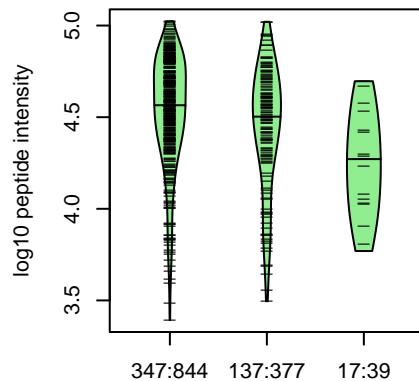
Locus: 48 (Sort: 56)
 Status: Replicated
 80% power: Yes
 SNP: 3:122846881:C:T
 rsID: rs9820435
 UniProtID: Q14554
 HGNC gene: PDIA5
 Type: Cis-pQTL

HLA-A [cis]

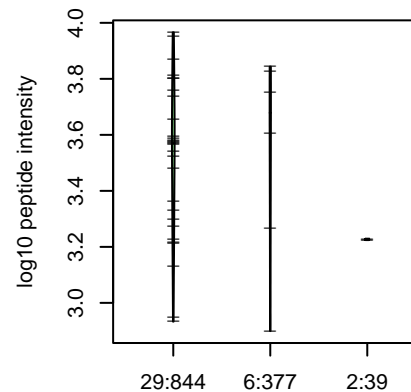
6:31332005:T:G_G
 $p = 7.5e-28$, $\beta = 0.557$, $N = 1247$

FIAGVYDDTQFVR pc2

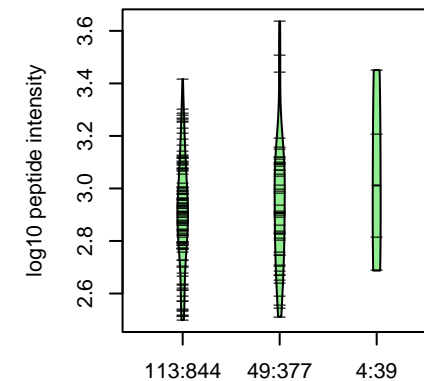
6:31332005:T:G_G
 $p = 2.9e-27$, $\beta = 0.551$, $N = 1244$

DYIALNEDLR pc2

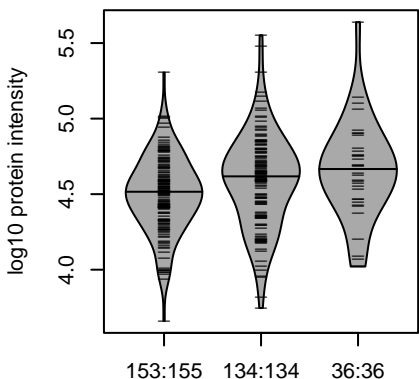
6:31332005:T:G_G
 $p = 0.0013$, $\beta = -0.263$, $N = 501$

AYLDGTCVEWLR pc2

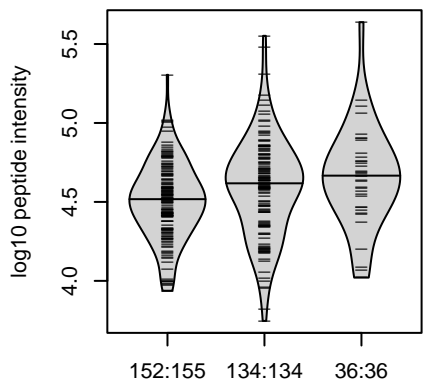
6:31332005:T:G_G
 $p = 0.24$, $\beta = -0.331$, $N = 37$

THMTHHPISDHEATLR pc3

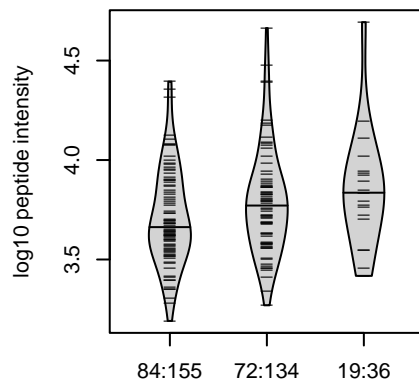
6:31332005:T:G_G
 $p = 0.25$, $\beta = 0.168$, $N = 166$

Q5SRN5 NP1

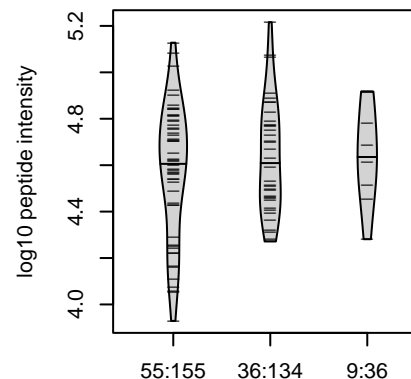
rs9266353
 $p = 0.00031$, $\beta = 0.29$, $N = 323$

FIAGVYDDTQFVR pc2

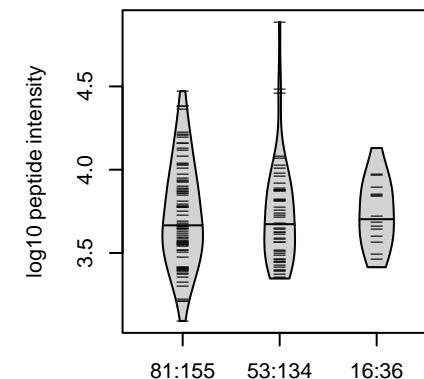
rs9266353
 $p = 0.00056$, $\beta = 0.28$, $N = 322$

YTCHVQHEGLPK pc3

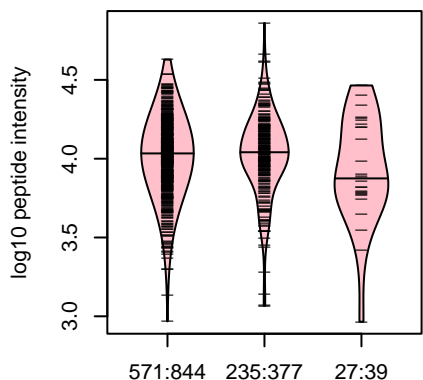
rs9266353
 $p = 0.031$, $\beta = 0.237$, $N = 175$

DYIALNEDLR pc2

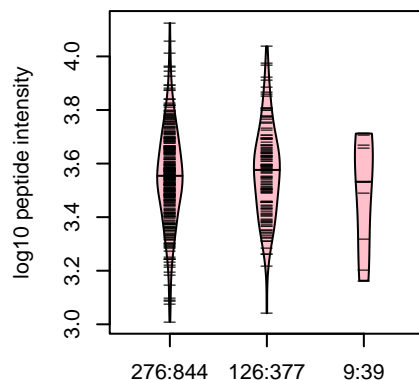
rs9266353
 $p = 0.49$, $\beta = 0.102$, $N = 100$

THMTHHPISDHEATLR pc4

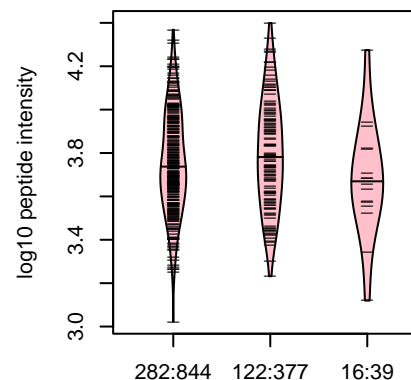
rs9266353
 $p = 0.62$, $\beta = 0.0587$, $N = 150$

**SWTAADMAAQITK pc2
rs1059517 REF**

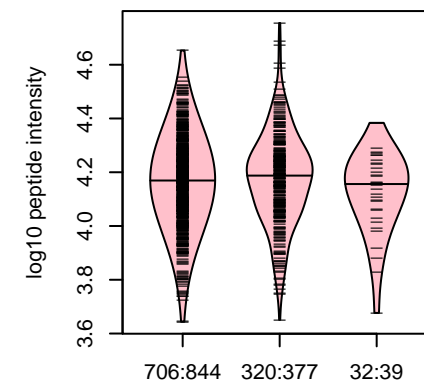
6:31332005:T:G_G
 $p = 0.1$, $\text{model} = \text{REC}$, $N = 833$

**SWTAADMAAQITQR pc2
rs1059517 ALT**

6:31332005:T:G_G
 $p = 0.23$, $\text{model} = \text{DOM}$, $N = 411$

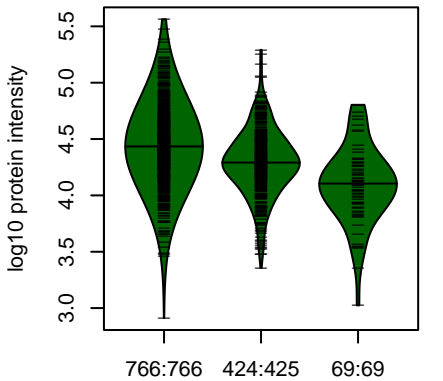
**AQSQTDRVDLGLTLR pc3
rs1071742;rs199474457 REF**

6:31332005:T:G_G
 $p = 0.3$, $\text{model} = \text{DOM}$, $N = 420$

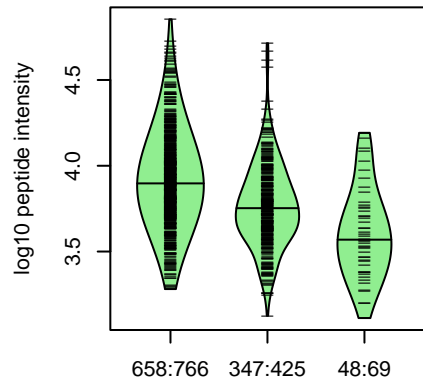
**FDSAASQR pc2
rs707910 REF**

6:31332005:T:G_G
 $p = 0.66$, $\text{model} = \text{DOM}$, $N = 1058$

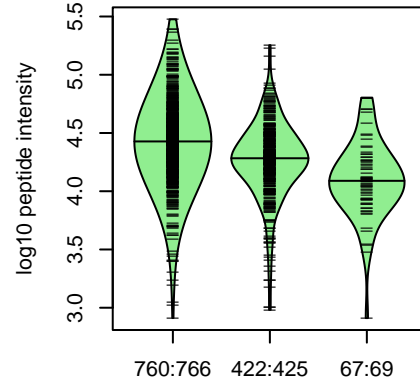
Locus: 49 (Sort: 57)
 Status: Not replicated
 80% power: Yes
 SNP: 6:31332005:T:G
 rsID: rs9266353
 UniProtID: Q5SRN5
 HGNC gene: HLA-A
 Type: Cis-pQTL

SERPINE2 [cis]

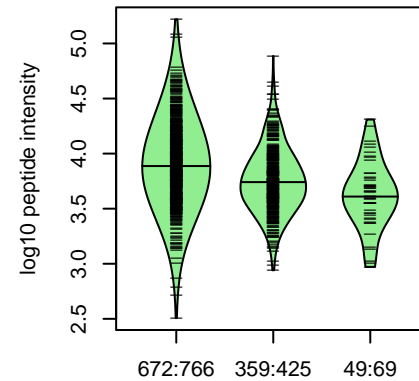
2:224880498:T:C_C
 $p = 7.7e-28$, $\beta = -0.502$, $N = 1259$

TIDSWMSIMVPK pc2

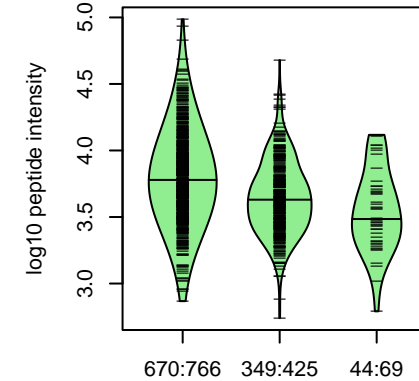
2:224880498:T:C_C
 $p = 6.2e-29$, $\beta = -0.575$, $N = 1053$

VLGITDMFDSSK pc2

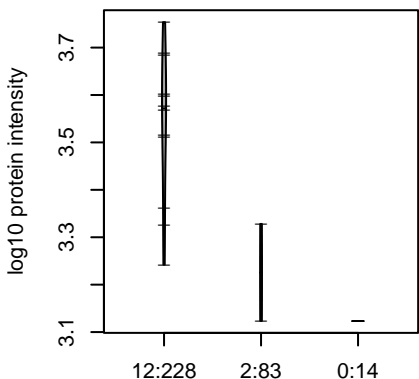
2:224880498:T:C_C
 $p = 3.2e-26$, $\beta = -0.491$, $N = 1249$

LVLVNAVYFK pc2

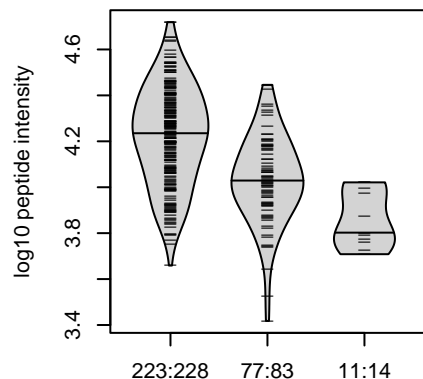
2:224880498:T:C_C
 $p = 9.6e-18$, $\beta = -0.442$, $N = 1080$

DIVTVANAVFVK pc2

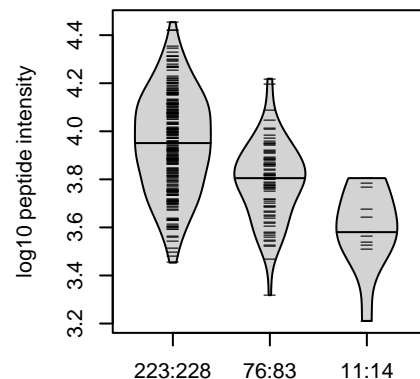
2:224880498:T:C_C
 $p = 1.1e-17$, $\beta = -0.451$, $N = 1063$

P07093 NP4

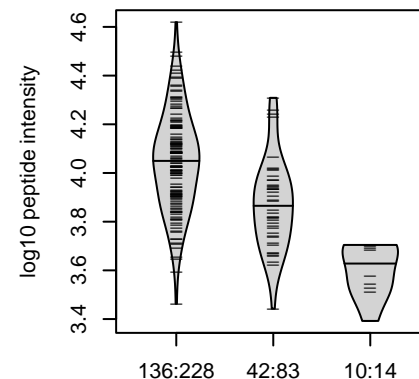
rs68066031
 $p = 0.57$, $\beta = -0.357$, $N = 14$

SYQVPMLAQLSVFR pc2

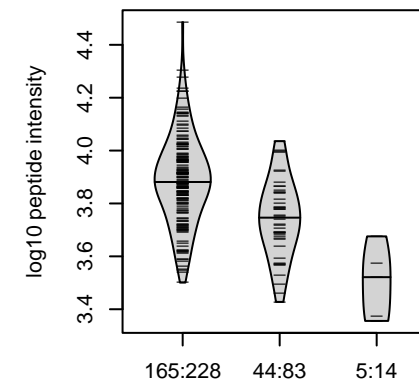
rs68066031
 $p = 2.9e-14$, $\beta = -0.758$, $N = 311$

iRPHDNIVISPHGIASVLGMLQLGADGF

rs68066031
 $p = 9.8e-13$, $\beta = -0.717$, $N = 310$

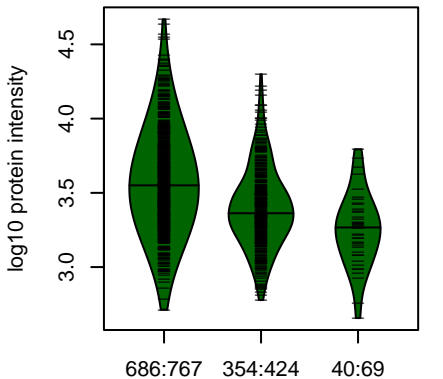
LVLVNAVYFK pc2

rs68066031
 $p = 1.8e-11$, $\beta = -0.793$, $N = 188$

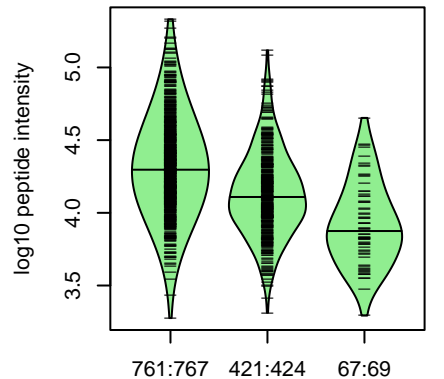
HNPTGAVLFMGQINKP pc3

rs68066031
 $p = 2.1e-09$, $\beta = -0.797$, $N = 214$

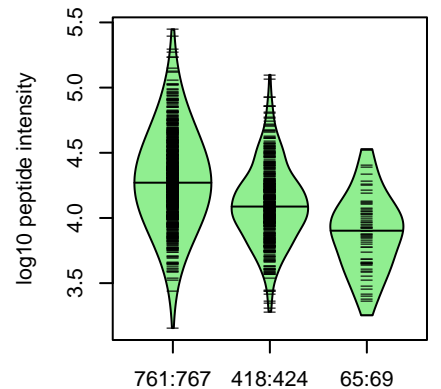
Locus: 50 (Sort: 58)
 Status: Not replicated
 80% power: No
 SNP: 2:224880498:T:C
 rsID: rs68066031
 UniProtID: P07093
 HGNC gene: SERPINE2
 Type: Cis-pQTL

SERPINE2 [cis]

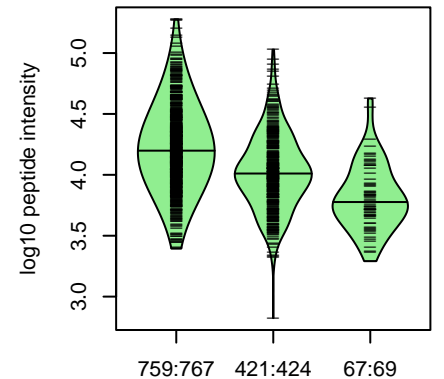
2:224874874:G:A_A
 $p = 5.6e-24$, $\beta = -0.533$, $N = 1080$

VLGITDMFDSSK pc2

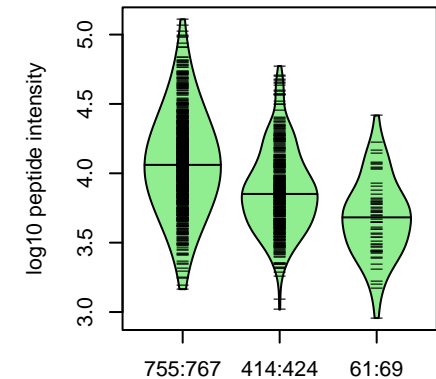
2:224874874:G:A_A
 $p = 1.8e-39$, $\beta = -0.602$, $N = 1249$

SYQVPMLAQLSVFR pc2

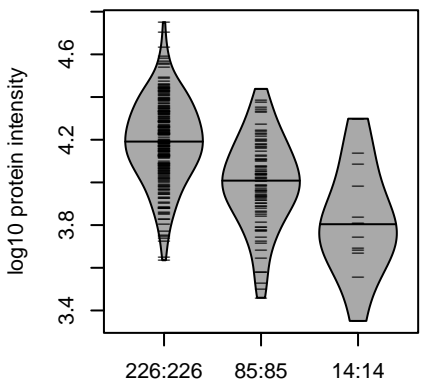
2:224874874:G:A_A
 $p = 3e-38$, $\beta = -0.596$, $N = 1244$

LVLVNAVYFK pc2

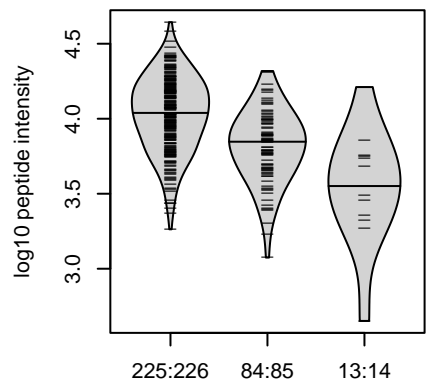
2:224874874:G:A_A
 $p = 3.5e-38$, $\beta = -0.592$, $N = 1247$

DIVTVANAVFVK pc2

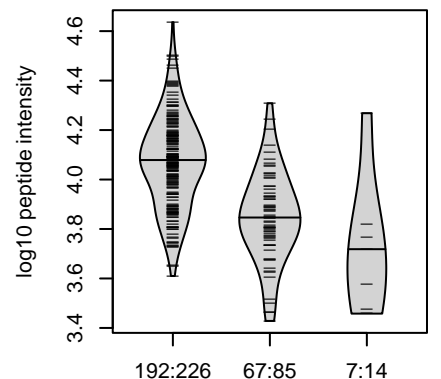
2:224874874:G:A_A
 $p = 6e-37$, $\beta = -0.594$, $N = 1230$

P07093 NP3

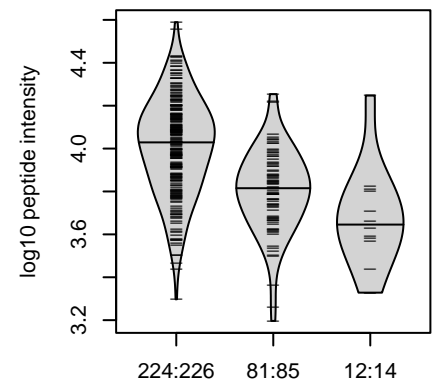
rs13412535
 $p = 9.7e-17$, $\beta = -0.766$, $N = 325$

ASAATTAILIAR pc2

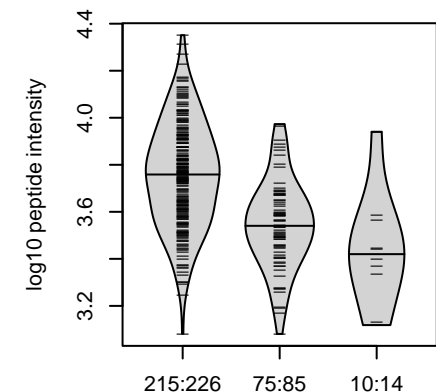
rs13412535
 $p = 7.6e-15$, $\beta = -0.739$, $N = 322$

SYQVPMLAQLSVFR pc2

rs13412535
 $p = 9.9e-15$, $\beta = -0.861$, $N = 266$

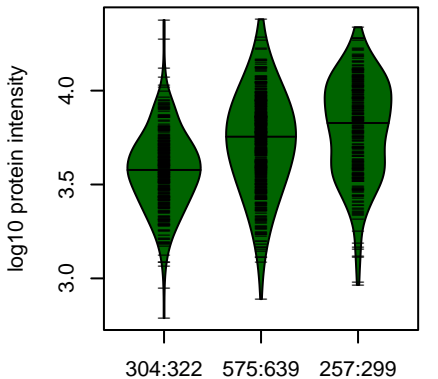
VLGITDMFDSSK pc2

rs13412535
 $p = 1.8e-14$, $\beta = -0.745$, $N = 317$

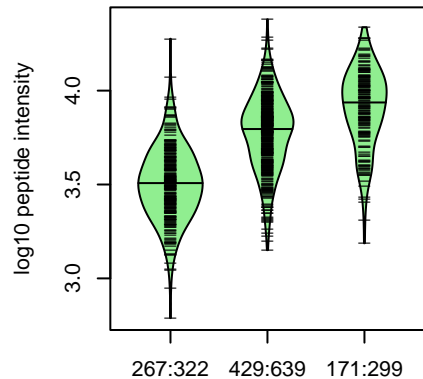
DIVTVANAVFVK pc2

rs13412535
 $p = 3.1e-13$, $\beta = -0.748$, $N = 300$

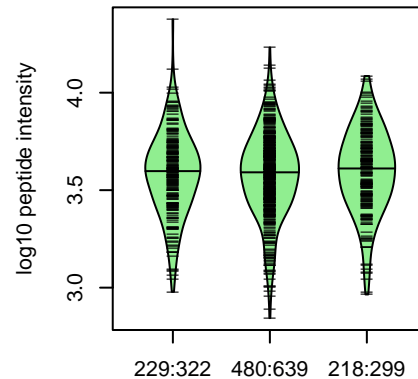
Locus: 50 (Sort: 59)
 Status: Replicated
 80% power: Yes
 SNP: 2:224874874:G:A
 rsID: rs13412535
 UniProtID: P07093
 HGNC gene: SERPINE2
 Type: Cis-pQTL

CCL23 [trans]

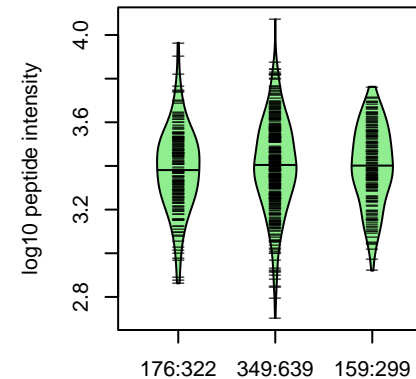
3:186395572:A:T_A
 $p = 7.3e-27$, $\beta = 0.441$, $N = 1136$

FHATSADCCISYTPR pc3

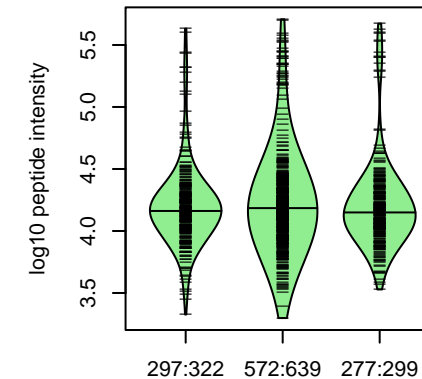
3:186395572:A:T_A
 $p = 2.6e-77$, $\beta = 0.813$, $N = 867$

LPLENPVLLDR pc2

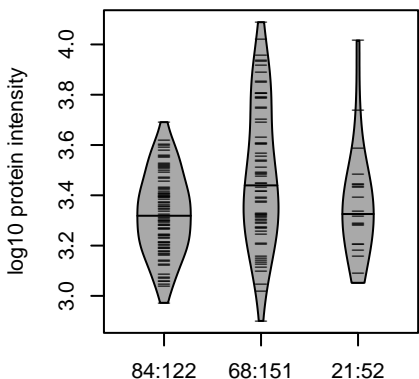
3:186395572:A:T_A
 $p = 0.39$, $\beta = 0.0405$, $N = 927$

DAETEFMMSK pc2

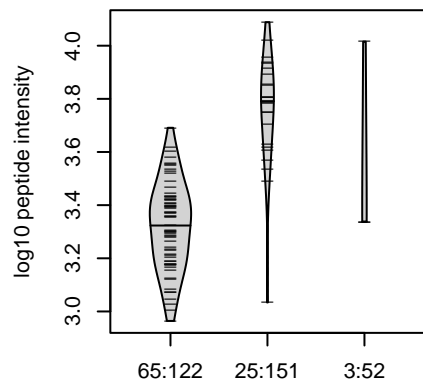
3:186395572:A:T_A
 $p = 0.65$, $\beta = 0.0246$, $N = 684$

PGVIFLTK pc2

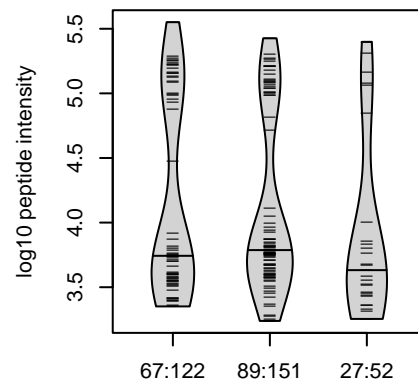
3:186395572:A:T_A
 $p = 0.77$, $\beta = 0.0119$, $N = 1146$

P55773 NP3

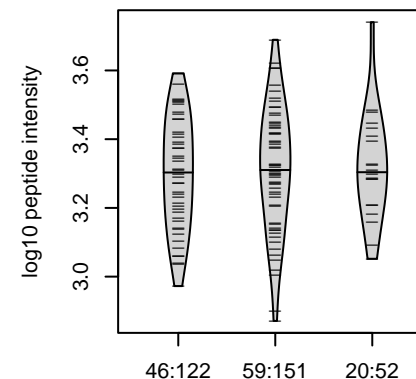
rs1042464
 $p = 0.17$, $\beta = 0.149$, $N = 173$

FHATSADCCISYTPR pc3

rs1042464
 $p = 9.6e-08$, $\beta = 0.929$, $N = 93$

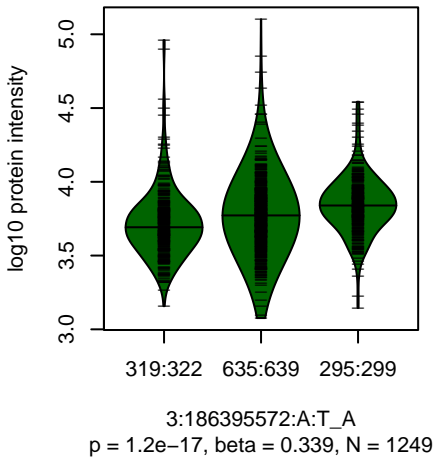
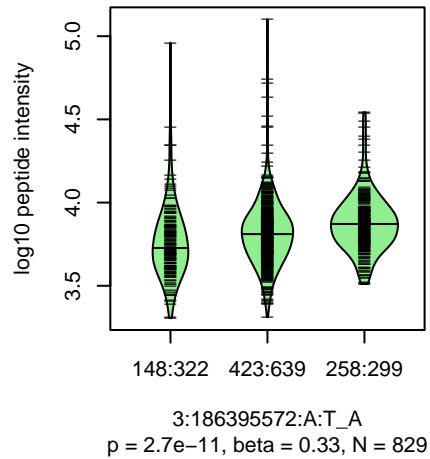
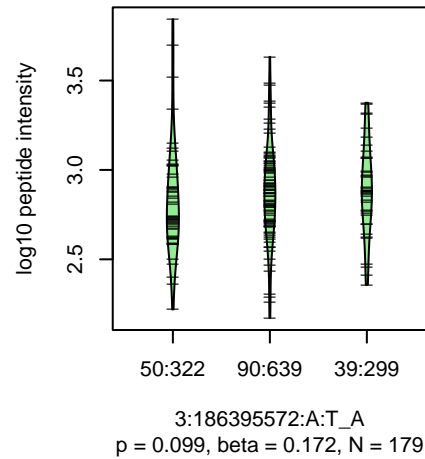
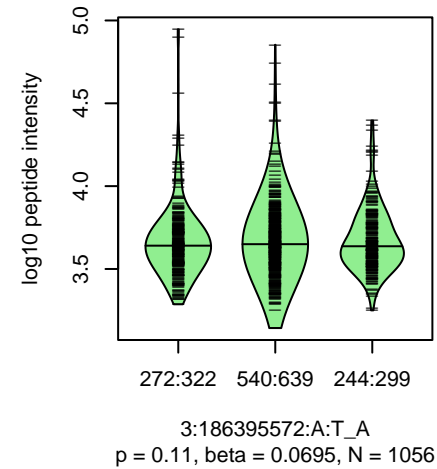
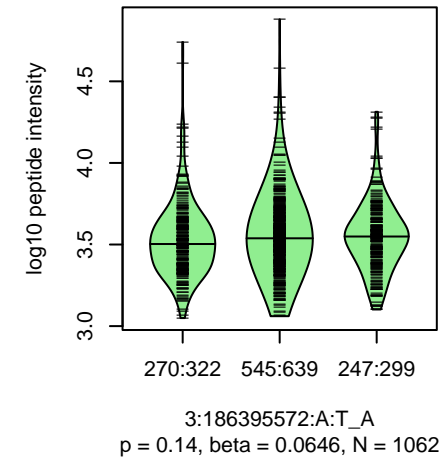
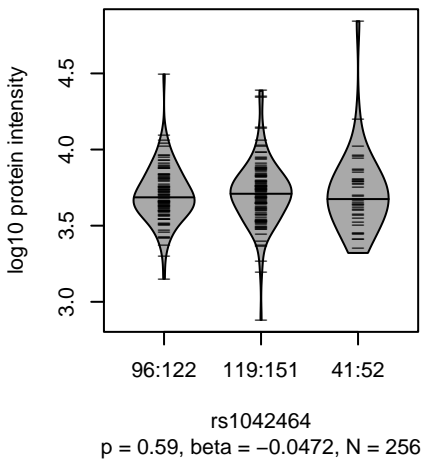
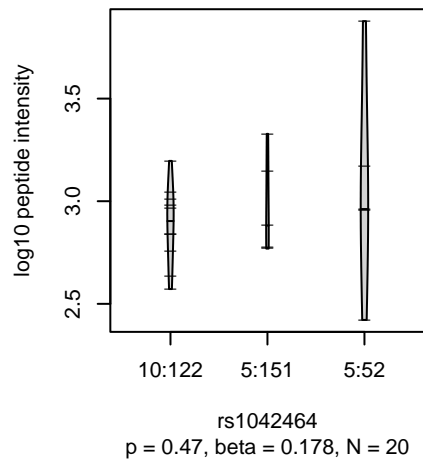
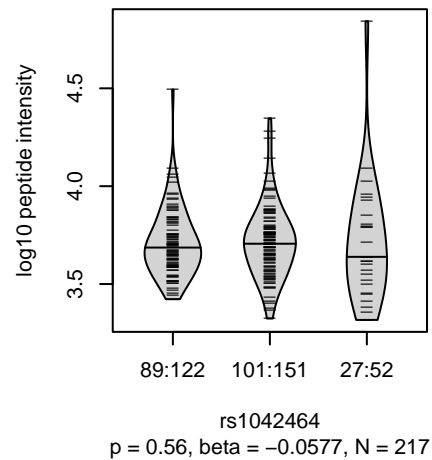
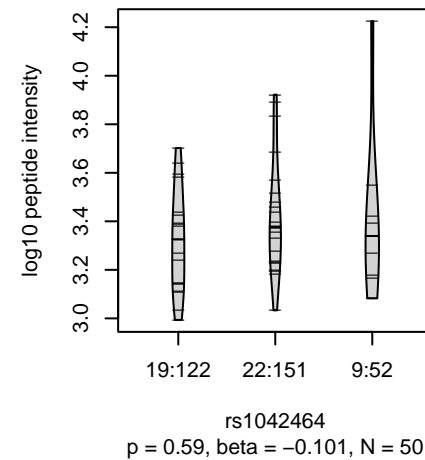
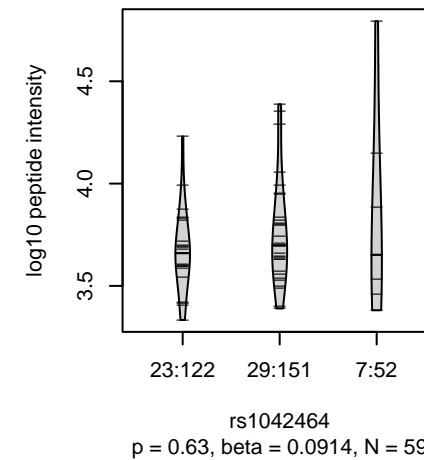
PGVIFLTK pc2

rs1042464
 $p = 0.26$, $\beta = -0.12$, $N = 183$

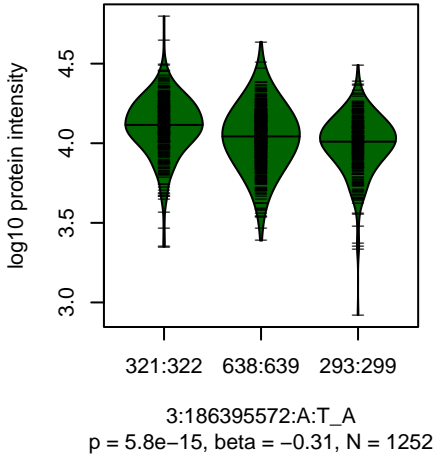
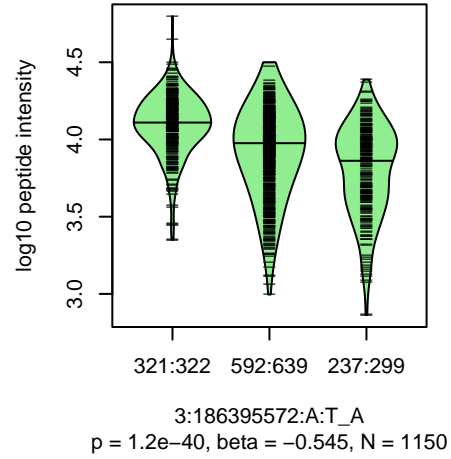
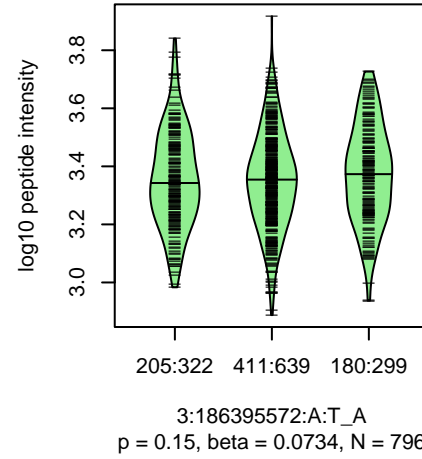
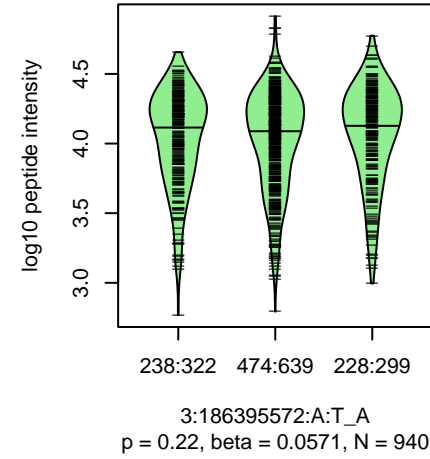
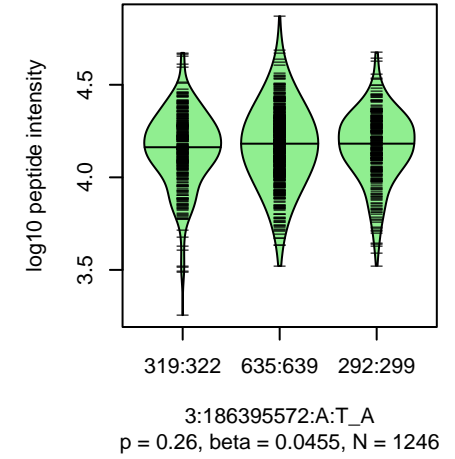
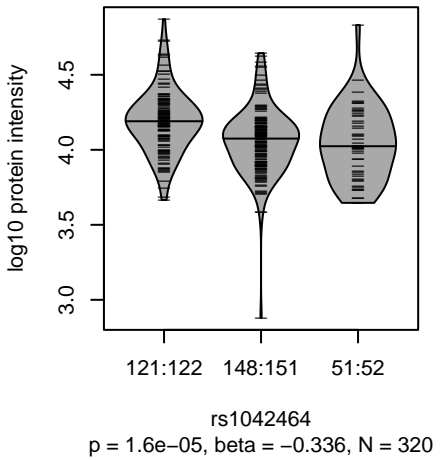
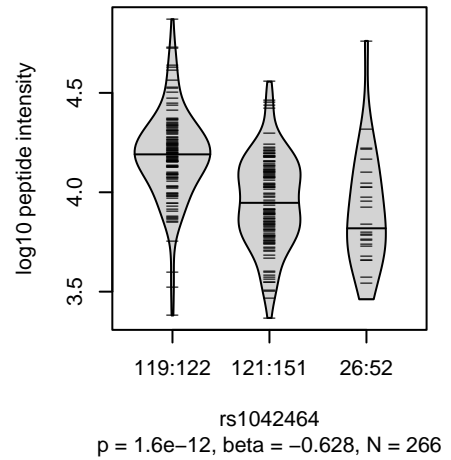
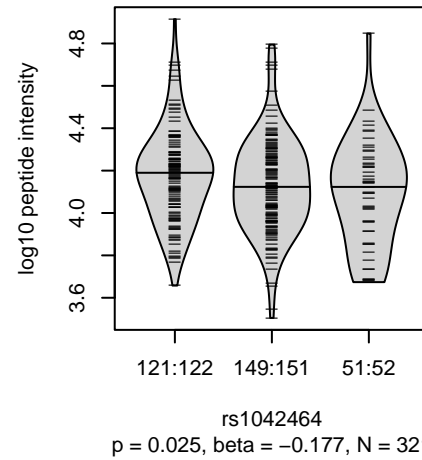
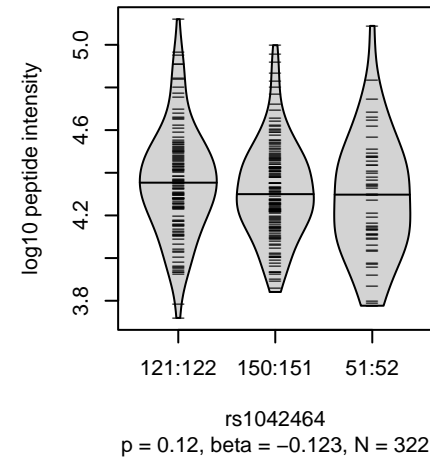
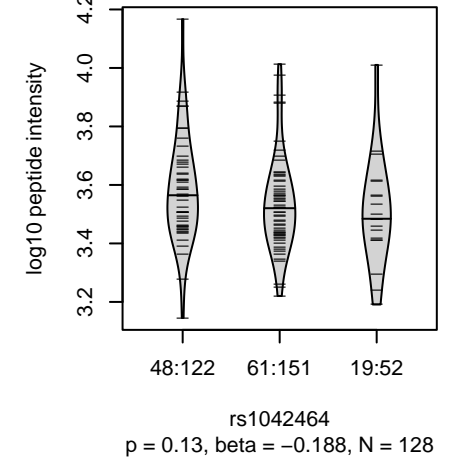
LPLENPVLLDR pc2

rs1042464
 $p = 0.99$, $\beta = 0.00206$, $N = 125$

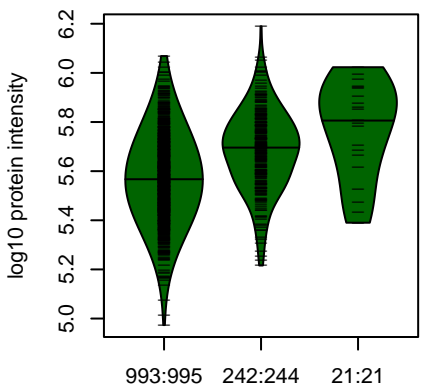
Locus: 52 (Sort: 61)
 Status: Not replicated
 80% power: No
 SNP: 3:186395572:A:T
 rsID: rs1042464
 UniProtID: P55773
 HGNC gene: CCL23
 Type: Trans-pQTL

HNRNPA3 [trans]**IETIEVMEDR pc2****GFGFVTYSCVEEVDAAAMCARPHK p****EDTEEYNLR pc2****LFIGGLSFETTDDSLREHFEK pc4****A0A7I2V4G0 NP1****EDSVKPGAHLTVK pc3****LFIGGLSFETTDDSLREHFEK pc4****WGTLTDCVVMR pc2****EDTEEYNLR pc2**

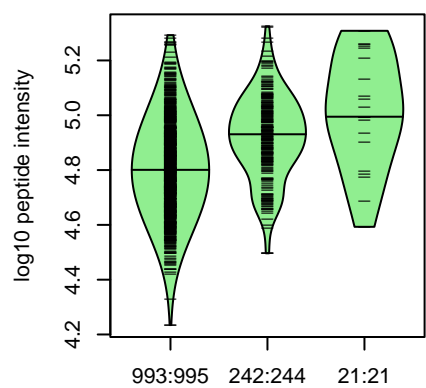
Locus: 52 (Sort: 62)
 Status: Not replicated
 80% power: No
 SNP: 3:186395572:A:T
 rsID: rs1042464
 UniProtID: A0A7I2V4G0
 HGNC gene: HNRNPA3
 Type: Trans-pQTL

GNB2 [trans]**TFVSGACDASIK pc2****ACGDSTLTQITAGLDPVGR pc3****VHAIPLR pc2****AGVLAGHDNR pc2****P62879 NP1****TFVSGACDASIK pc2****IYAMHWGTDSR pc3****AGVLAGHDNR pc2****VSCLGVTTDDGMAVATGSWDSFLK p**

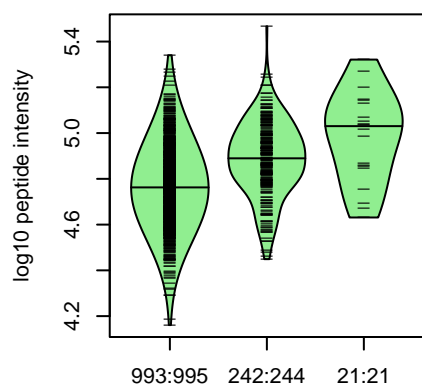
Locus: 52 (Sort: 63)
 Status: Replicated
 80% power: No
 SNP: 3:186395572:A:T
 rsID: rs1042464
 UniProtID: P62879
 HGNC gene: GNB2
 Type: Trans-pQTL

HSP90B1 [cis]

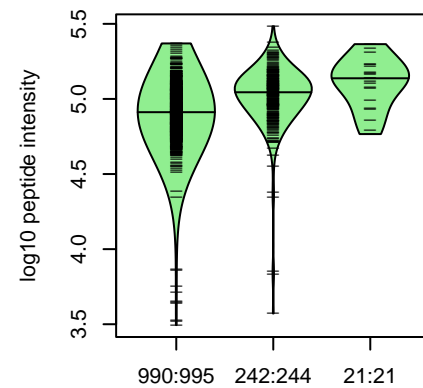
12:104297719:T:C_T
 $p = 2.6e-26$, $\beta = 0.639$, $N = 1256$

DISTNYASQK pc2

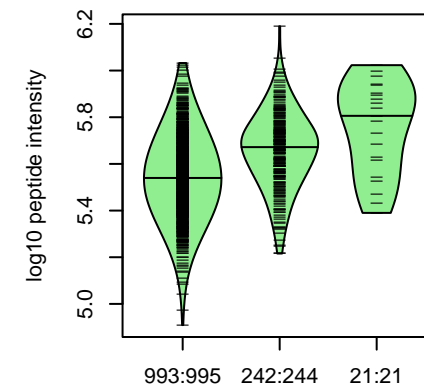
12:104297719:T:C_T
 $p = 2.4e-28$, $\beta = 0.664$, $N = 1256$

SGTSEFLNK pc2

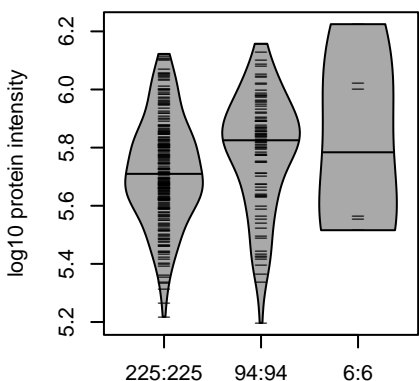
12:104297719:T:C_T
 $p = 2.5e-27$, $\beta = 0.651$, $N = 1256$

EVEEDEYK pc2

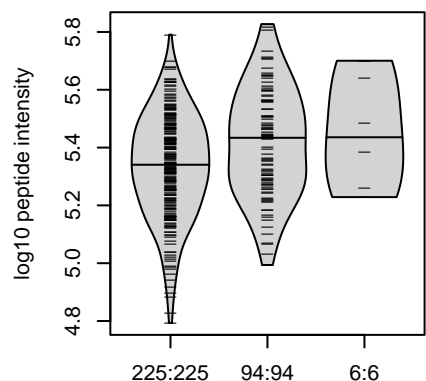
12:104297719:T:C_T
 $p = 3.9e-27$, $\beta = 0.649$, $N = 1253$

SILFVPTSAPR pc2

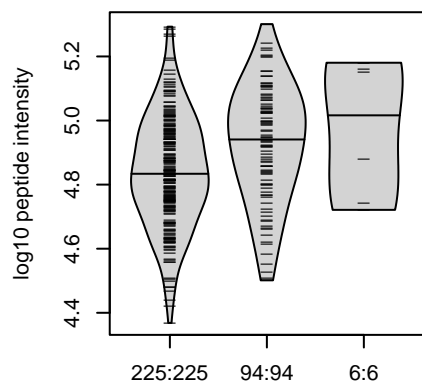
12:104297719:T:C_T
 $p = 6.6e-26$, $\beta = 0.634$, $N = 1256$

P14625 NP2

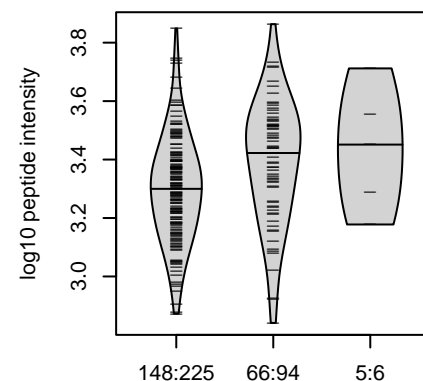
rs1866075
 $p = 0.022$, $\beta = 0.249$, $N = 325$

TFEINPR pc2

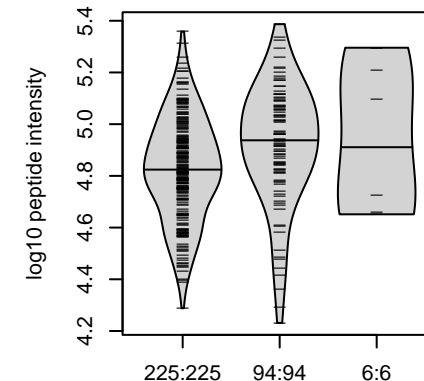
rs1866075
 $p = 0.00038$, $\beta = 0.381$, $N = 325$

EVEEDEYK pc2

rs1866075
 $p = 8e-04$, $\beta = 0.36$, $N = 325$

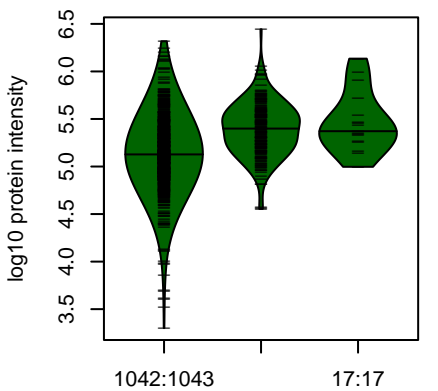
ETLQQHK pc2

rs1866075
 $p = 0.002$, $\beta = 0.389$, $N = 219$

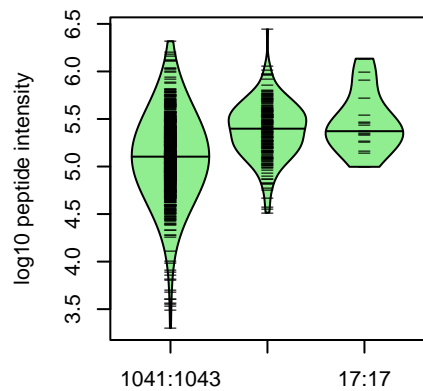
NLLHVTDTGVGMTR pc3

rs1866075
 $p = 0.003$, $\beta = 0.319$, $N = 325$

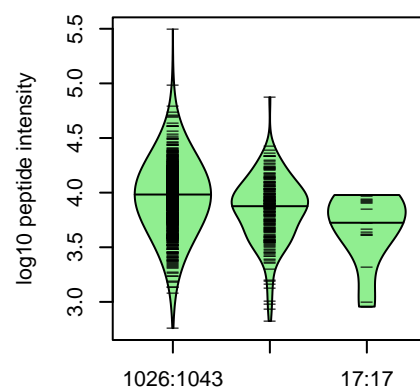
Locus: 53 (Sort: 64)
 Status: Not replicated
 80% power: Yes
 SNP: 12:104297719:T:C
 rsID: rs1866075
 UniProtID: P14625
 HGNC gene: HSP90B1
 Type: Cis-pQTL

HP [cis]

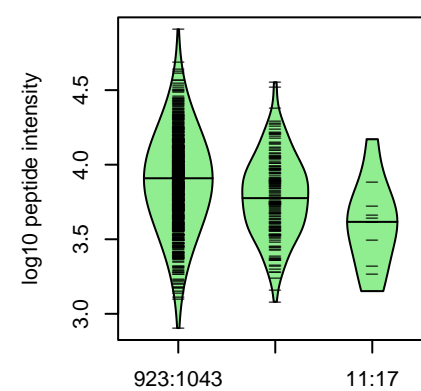
16:72029069:C:A_A
 $p = 4.8e-26$, $\beta = 0.686$, $N = 1259$

VTSIQDWVQK pc2

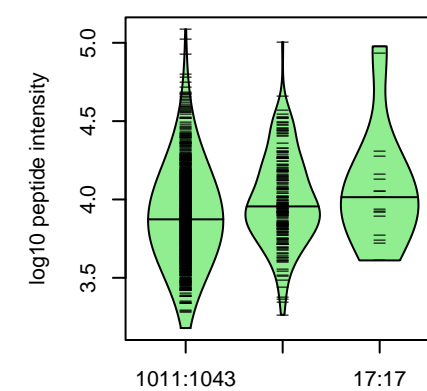
16:72029069:C:A_A
 $p = 6.2e-27$, $\beta = 0.698$, $N = 1258$

TEGDGVYTLNNEK pc2

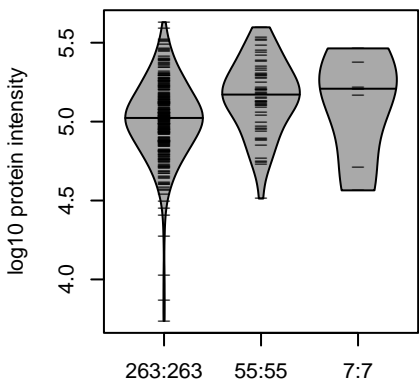
16:72029069:C:A_A
 $p = 6.7e-13$, $\beta = -0.475$, $N = 1240$

LRTEGDGVYTLNNEK pc3

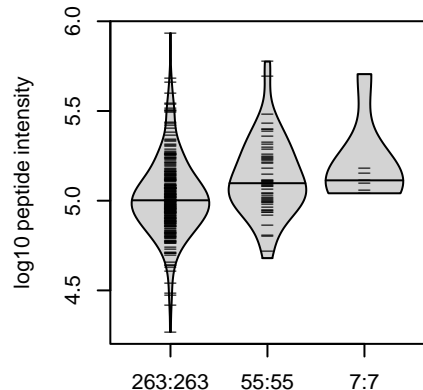
16:72029069:C:A_A
 $p = 4.7e-08$, $\beta = -0.402$, $N = 1104$

TEGDGVYTLNDKK pc3

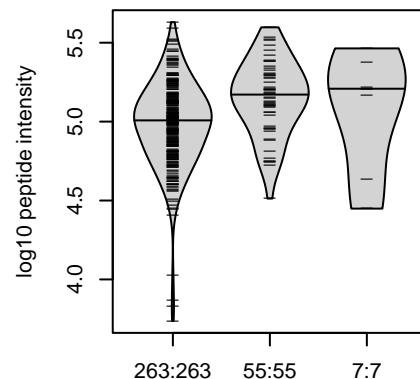
16:72029069:C:A_A
 $p = 1.1e-07$, $\beta = 0.356$, $N = 1220$

P00738 NP4

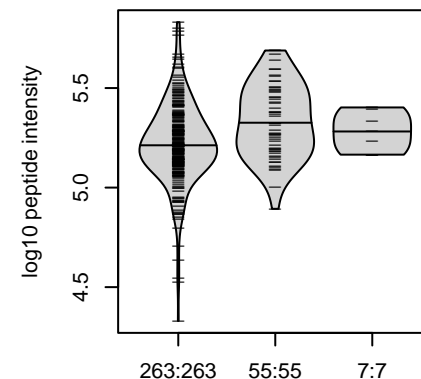
rs12920245
 $p = 6e-04$, $\beta = 0.412$, $N = 325$

SCAVAEYGVYVK pc2

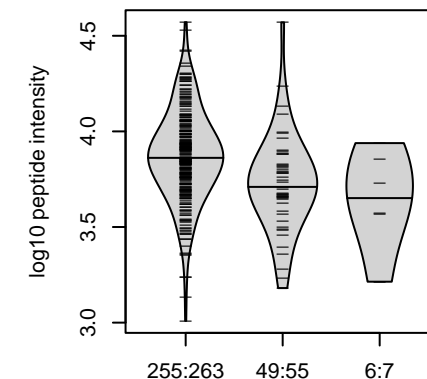
rs12920245
 $p = 4.3e-05$, $\beta = 0.483$, $N = 325$

VTSIQDWVQK pc2

rs12920245
 $p = 0.00026$, $\beta = 0.432$, $N = 325$

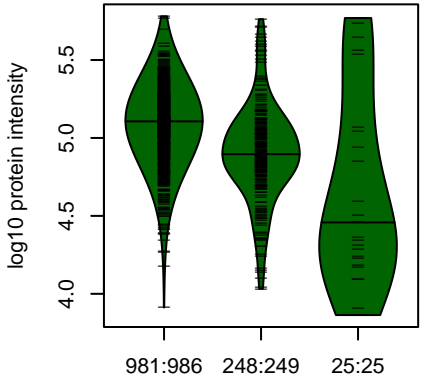
LPECEAVCGK pc2

rs12920245
 $p = 0.00039$, $\beta = 0.42$, $N = 325$

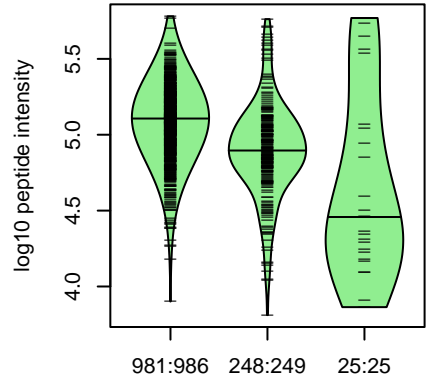
TEGDGVYTLNNEK pc2

rs12920245
 $p = 0.00056$, $\beta = -0.432$, $N = 310$

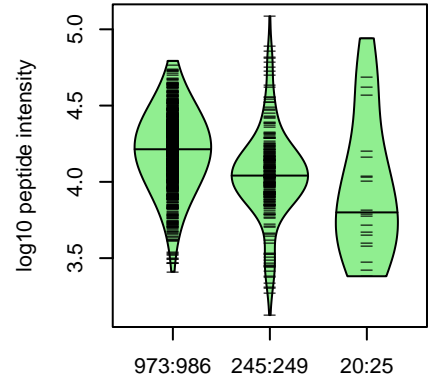
Locus: 54 (Sort: 65)
 Status: Not replicated
 80% power: Yes
 SNP: 16:72029069:C:A
 rsID: rs12920245
 UniProtID: P00738
 HGNC gene: HP
 Type: Cis-pQTL

CCL16 [cis]

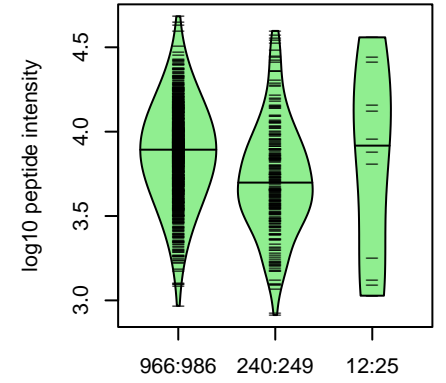
17:34306106:A:G_G
 $p = 5.6e-26$, $\beta = -0.617$, $N = 1254$

DPNLPLLPTTR pc2

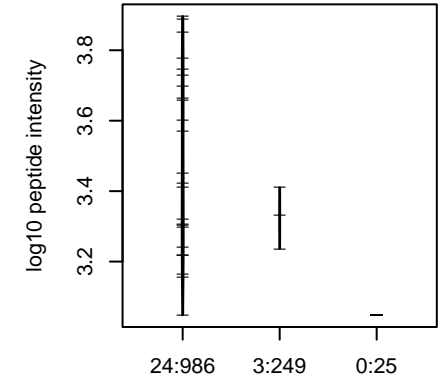
17:34306106:A:G_G
 $p = 8.6e-26$, $\beta = -0.615$, $N = 1254$

ALNCHLPAIIFVTK pc3

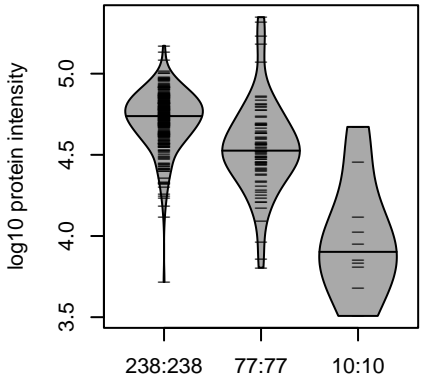
17:34306106:A:G_G
 $p = 2e-19$, $\beta = -0.548$, $N = 1238$

VPEWVNTPTCCLK pc2

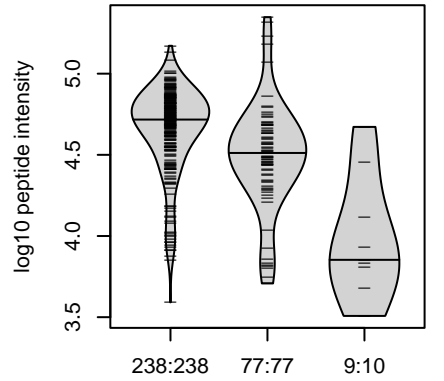
17:34306106:A:G_G
 $p = 3.5e-14$, $\beta = -0.491$, $N = 1218$

EVCTNPNDWVQEYIK pc3

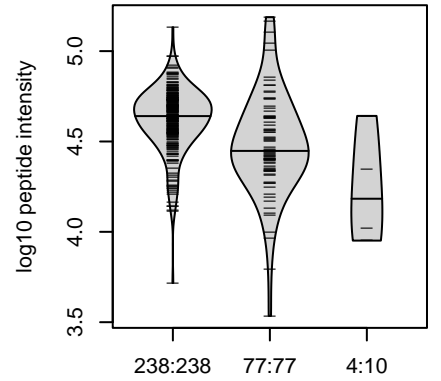
17:34306106:A:G_G
 $p = 0.76$, $\beta = -0.174$, $N = 27$

O15467 NP3

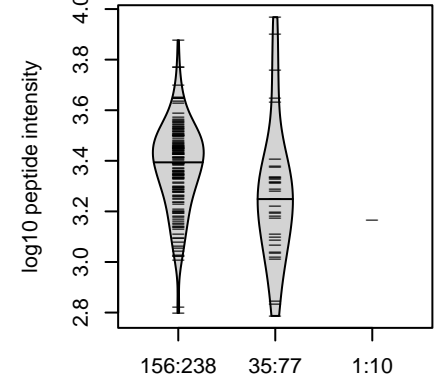
rs10445391
 $p = 6.2e-17$, $\beta = -0.84$, $N = 325$

ALNCHLPAIIFVTK pc3

rs10445391
 $p = 6.6e-12$, $\beta = -0.709$, $N = 324$

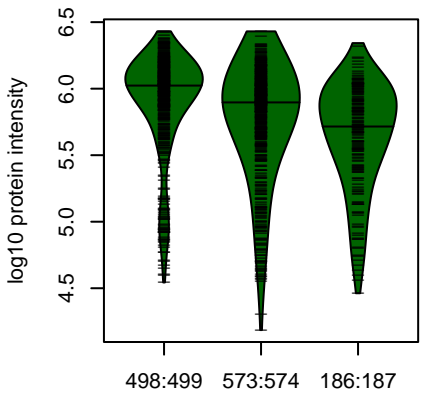
DPNLPLLPTTR pc2

rs10445391
 $p = 2e-08$, $\beta = -0.645$, $N = 319$

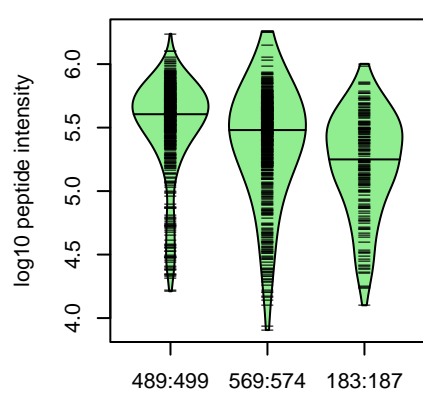
VPEWVNTPTCCLK pc2

rs10445391
 $p = 0.00069$, $\beta = -0.582$, $N = 192$

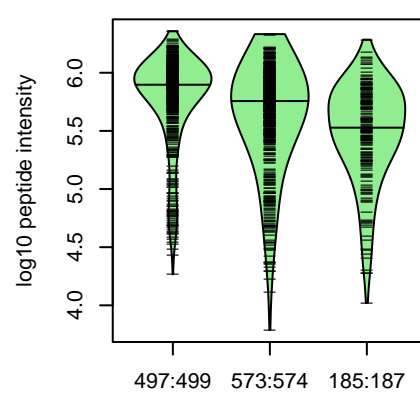
Locus: 55 (Sort: 66)
 Status: Replicated
 80% power: Yes
 SNP: 17:34306106:A:G
 rsID: rs10445391
 UniProtID: O15467
 HGNC gene: CCL16
 Type: Cis-pQTL

SERPINA10 [trans]

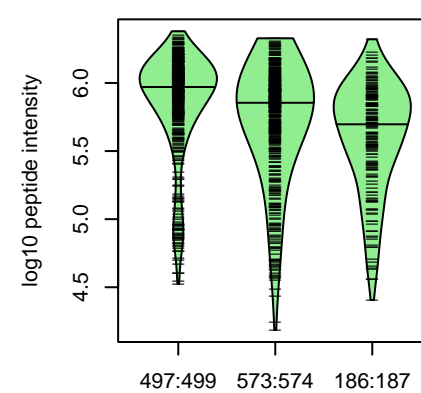
13:113800622:T:C_T
 $p = 3.1e-25$, $\beta = -0.411$, $N = 1257$

LILVDYILFK pc2

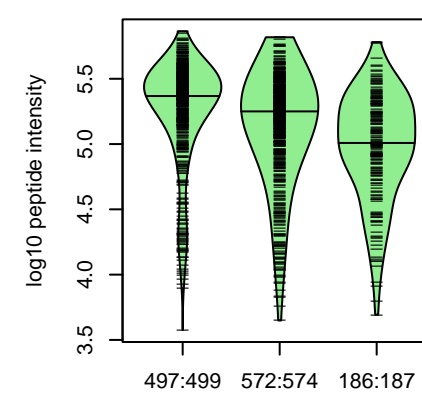
13:113800622:T:C_T
 $p = 8.9e-25$, $\beta = -0.41$, $N = 1241$

VPMMYGAGK pc2

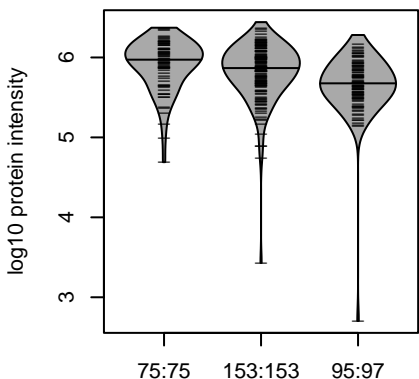
13:113800622:T:C_T
 $p = 4e-24$, $\beta = -0.402$, $N = 1255$

ETSNFGFSLLR pc2

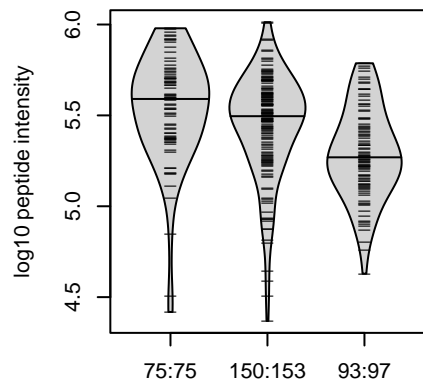
13:113800622:T:C_T
 $p = 1.4e-23$, $\beta = -0.397$, $N = 1256$

YEMHELLR pc2

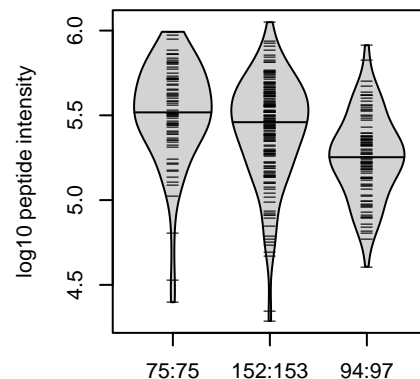
13:113800622:T:C_T
 $p = 2.2e-23$, $\beta = -0.395$, $N = 1255$

G3V2W1 NP2

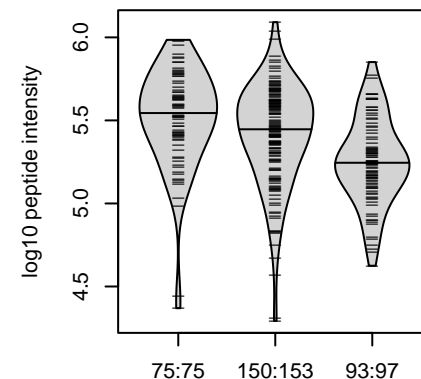
rs559054
 $p = 1.5e-07$, $\beta = -0.391$, $N = 323$

VPMMYGAGK pc2

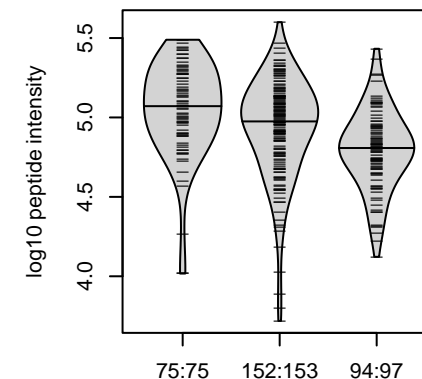
rs559054
 $p = 8.6e-10$, $\beta = -0.455$, $N = 318$

NMEVFFPK pc2

rs559054
 $p = 2.4e-09$, $\beta = -0.443$, $N = 321$

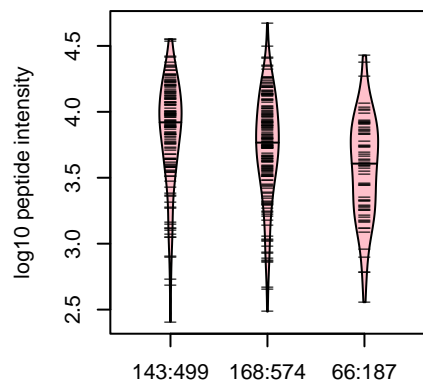
LILVDYILFK pc2

rs559054
 $p = 2.9e-09$, $\beta = -0.442$, $N = 318$

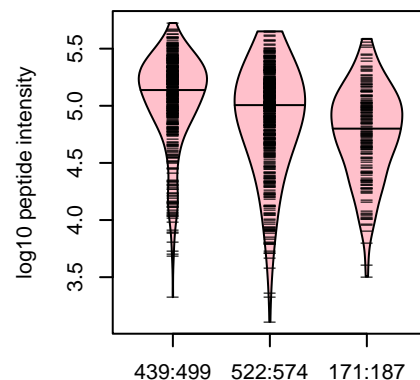
RIFSPFADLSELSATGR pc3

rs559054
 $p = 7.9e-09$, $\beta = -0.429$, $N = 321$

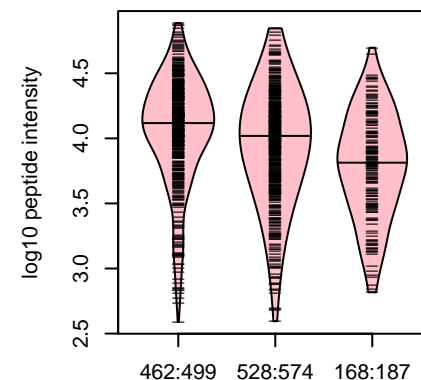
Locus: 56 (Sort: 67)
 Status: Replicated
 80% power: Yes
 SNP: 13:113800622:T:C
 rsID: rs559054
 UniProtID: G3V2W1
 HGNC gene: SERPINA10
 Type: Trans-pQTL

**NLELGLSQGSFAFIHK pc2
rs2232700 ALT**

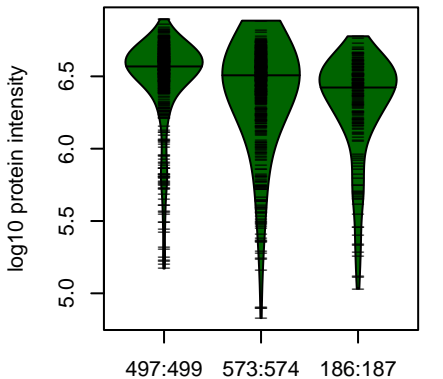
13:113800622:T:C_T
 $p = 0.084$, model = DOM, $N = 377$

**ETLSRNLELGLTQGSFAFIHK pc4
rs2232700 REF**

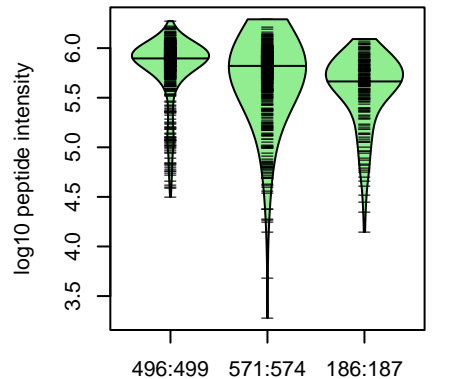
13:113800622:T:C_T
 $p = 0.086$, model = REC, $N = 1132$

**NLELGLTQGSFAFIHK pc2
rs2232700 REF**

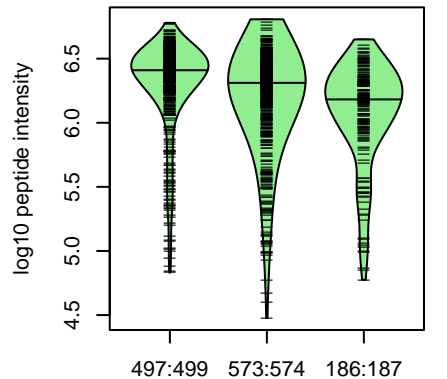
13:113800622:T:C_T
 $p = 0.25$, model = DOM, $N = 1158$

PROZ [cis]

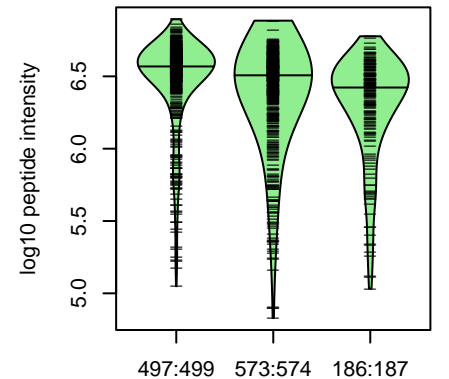
13:113800622:T:C_T
 $p = 6.1e-22$, $\beta = -0.382$, $N = 1256$

DFAEHLIPR pc2

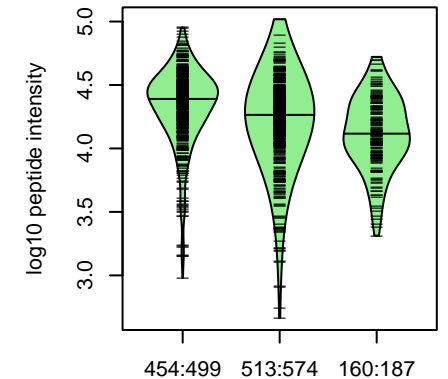
13:113800622:T:C_T
 $p = 1.5e-26$, $\beta = -0.422$, $N = 1253$

RAPDLQDLPWQVK pc3

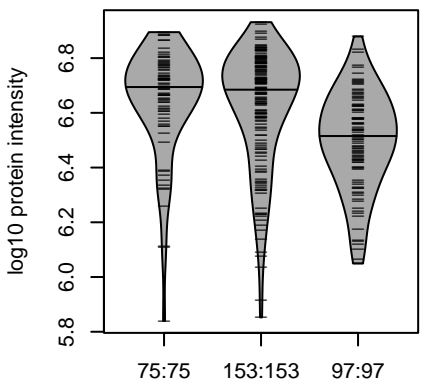
13:113800622:T:C_T
 $p = 1.1e-22$, $\beta = -0.389$, $N = 1256$

DFCGVIIR pc2

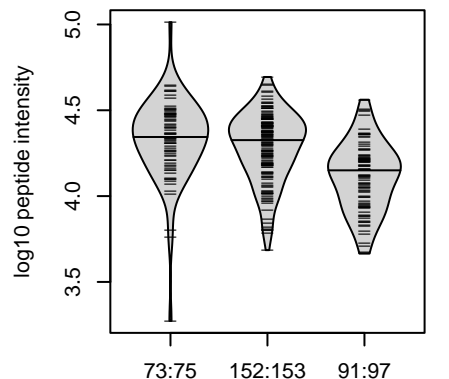
13:113800622:T:C_T
 $p = 6.9e-22$, $\beta = -0.382$, $N = 1256$

NECHPER pc2

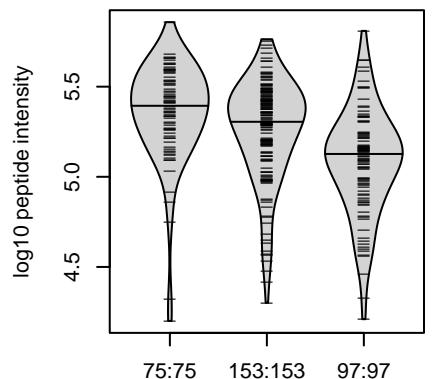
13:113800622:T:C_T
 $p = 4.3e-21$, $\beta = -0.397$, $N = 1127$

P22891 NP2

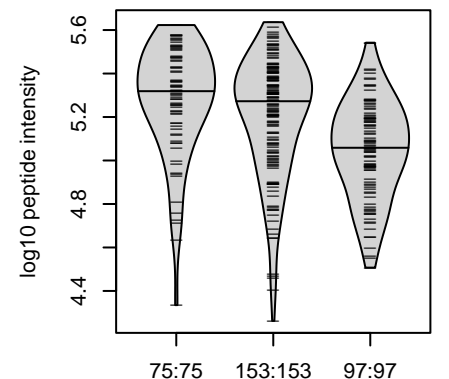
rs559054
 $p = 2.1e-07$, $\beta = -0.385$, $N = 325$

NECHPER pc2

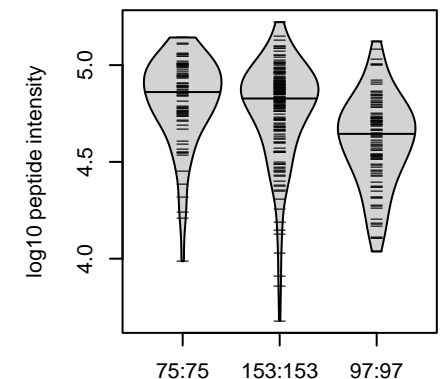
rs559054
 $p = 1.3e-11$, $\beta = -0.506$, $N = 316$

ITHVHVHMR pc2

rs559054
 $p = 1.6e-10$, $\beta = -0.469$, $N = 325$

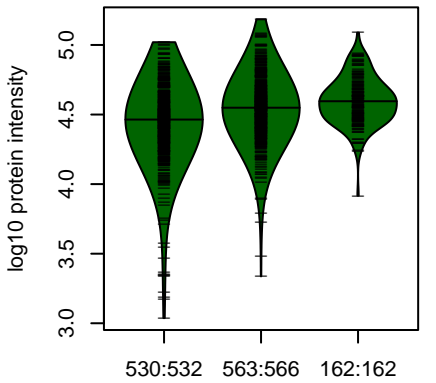
APDLQDLPWQVK pc2

rs559054
 $p = 1.3e-09$, $\beta = -0.446$, $N = 325$

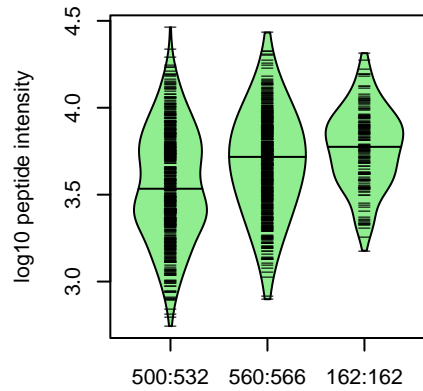
SSVAMHWMDGSVVTR pc2

rs559054
 $p = 1.8e-08$, $\beta = -0.416$, $N = 325$

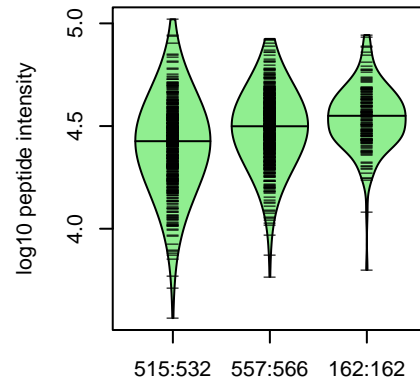
Locus: 56 (Sort: 68)
 Status: Replicated
 80% power: Yes
 SNP: 13:113800622:T:C
 rsID: rs559054
 UniProtID: P22891
 HGNC gene: PROZ
 Type: Cis-pQTL

HLA-B [cis]

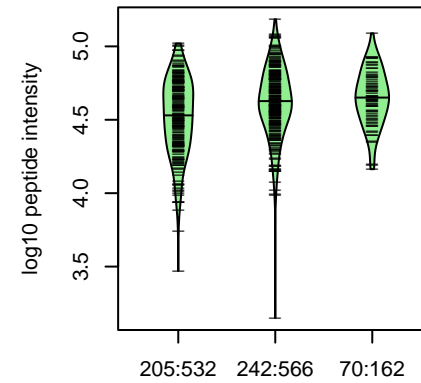
6:31221914:C:T_C
 $p = 3.6e-25$, $\beta = 0.418$, $N = 1255$

SWTAADTAAQITQR pc2

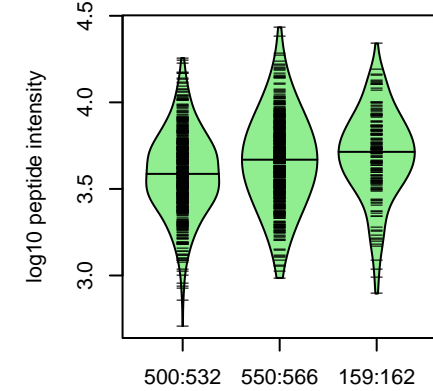
6:31221914:C:T_C
 $p = 3e-35$, $\beta = 0.502$, $N = 1222$

FSDAASPR pc2

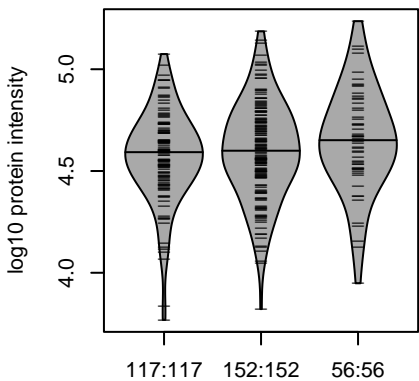
6:31221914:C:T_C
 $p = 1.9e-25$, $\beta = 0.423$, $N = 1234$

DYIALNEDLR pc2

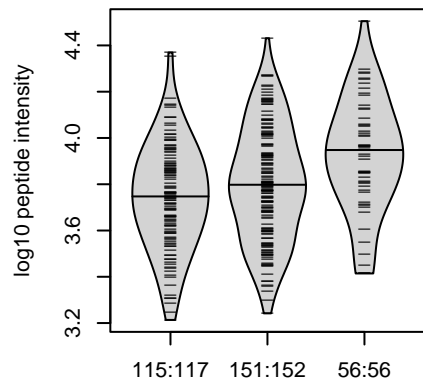
6:31221914:C:T_C
 $p = 1.4e-11$, $\beta = 0.424$, $N = 517$

DGEDTQDTELVETRPAGDR pc3

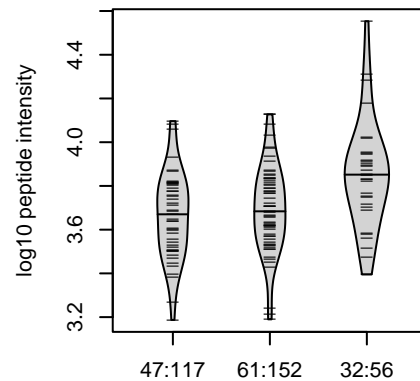
6:31221914:C:T_C
 $p = 1.7e-07$, $\beta = 0.218$, $N = 1209$

P01889 NP2

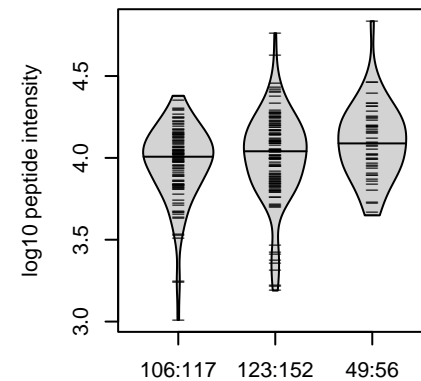
rs9264219
 $p = 0.075$, $\beta = 0.138$, $N = 325$

SWTAADTAAQITQR pc2

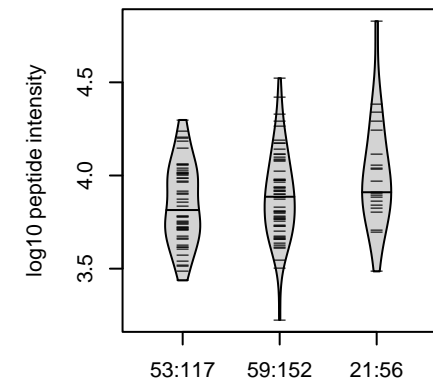
rs9264219
 $p = 1e-05$, $\beta = 0.34$, $N = 322$

APWIEQEGPEYWDR pc2

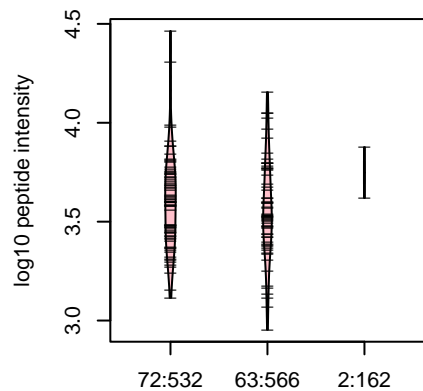
rs9264219
 $p = 0.004$, $\beta = 0.315$, $N = 140$

DGEDTQDTELVETRPAGDR pc3

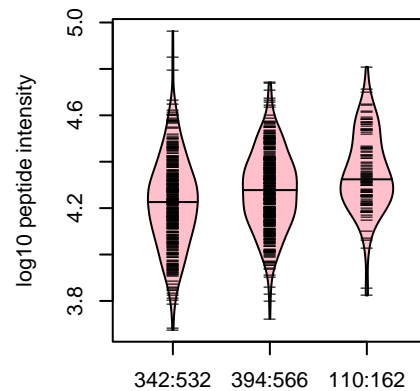
rs9264219
 $p = 0.024$, $\beta = 0.185$, $N = 278$

THVTHHPISDHEATLR pc4

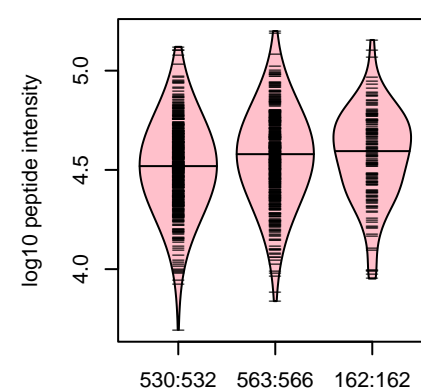
rs9264219
 $p = 0.052$, $\beta = 0.232$, $N = 133$

**GEPRFISGVYDDTQFVR pc3
rs1050437 REF**

6:31221914:C:T_C
 $p = 1.1e-06$, $\text{model} = \text{DOM}$, $N = 137$

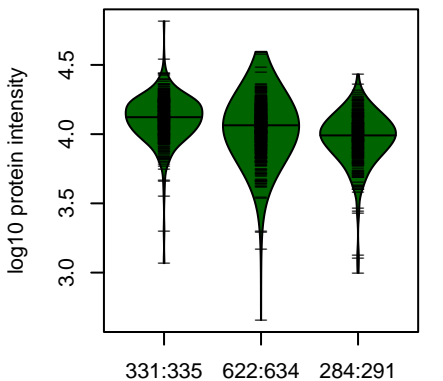
**FISGVYDDTQFVR pc2
rs1050437 REF**

6:31221914:C:T_C
 $p = 0.069$, $\text{model} = \text{REC}$, $N = 846$

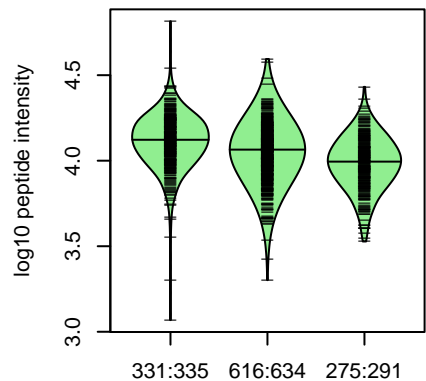
**WAAVVVPSGEEQR pc2
rs707908;rs1736924 ALT**

6:31221914:C:T_C
 $p = 1$, $\text{model} = \text{DOM}$, $N = 1255$

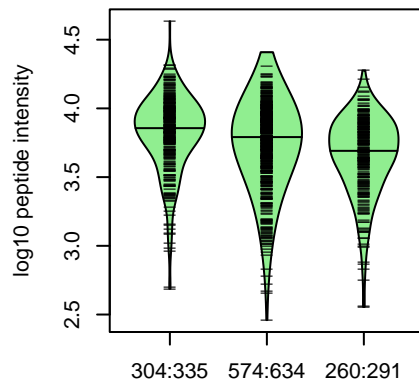
Locus: 57 (Sort: 69)
 Status: Not replicated
 80% power: Yes
 SNP: 6:31221914:C:T
 rsID: rs9264219
 UniProtID: P01889
 HGNC gene: HLA-B
 Type: Cis-pQTL

FXVD2 [cis]

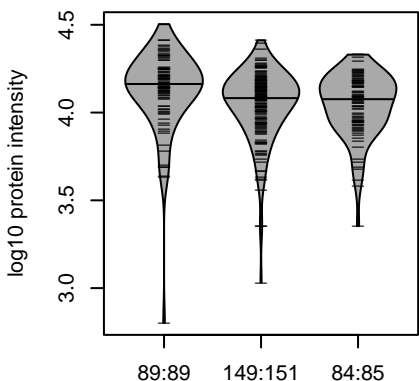
11:117694392:A:G_G
 $p = 6.7e-25$, $\beta = -0.406$, $N = 1237$

TGLSMDGGGSPK pc2

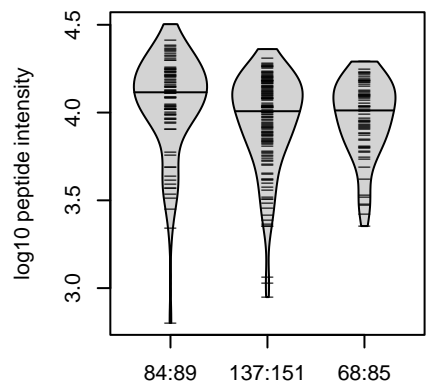
11:117694392:A:G_G
 $p = 6.5e-23$, $\beta = -0.392$, $N = 1222$

GDVDPFYDYETVR pc2

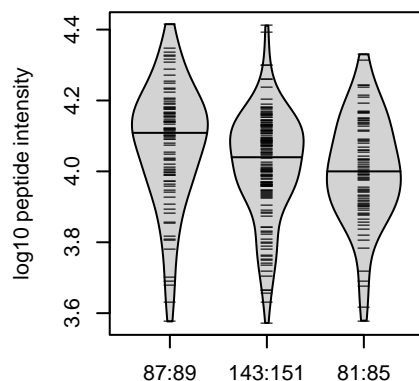
11:117694392:A:G_G
 $p = 8.6e-14$, $\beta = -0.309$, $N = 1138$

P54710 NP2

rs4936409
 $p = 6.1e-07$, $\beta = -0.365$, $N = 322$

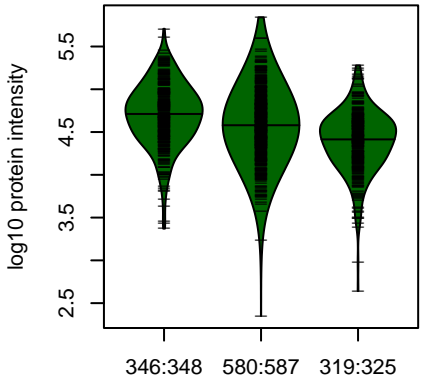
GDVDPFYDYETVR pc2

rs4936409
 $p = 2.7e-05$, $\beta = -0.332$, $N = 289$

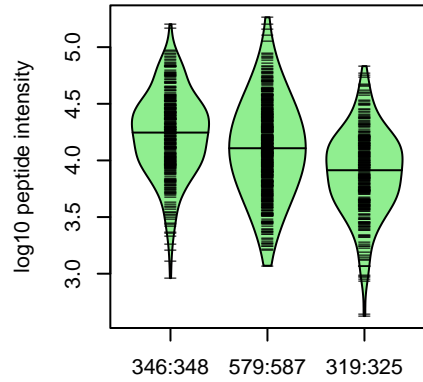
TGLSMDGGGSPK pc2

rs4936409
 $p = 6.7e-05$, $\beta = -0.3$, $N = 311$

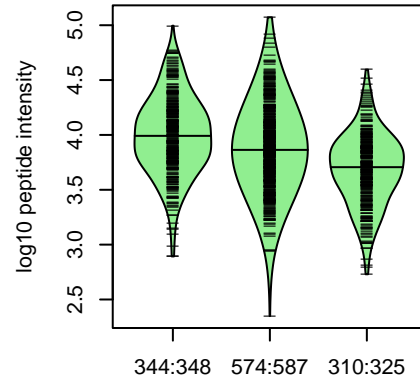
Locus: 58 (Sort: 70)
 Status: Replicated
 80% power: Yes
 SNP: 11:117694392:A:G
 rsID: rs4936409
 UniProtID: P54710
 HGNC gene: FXVD2
 Type: Cis-pQTL

BPIFA1 [cis]

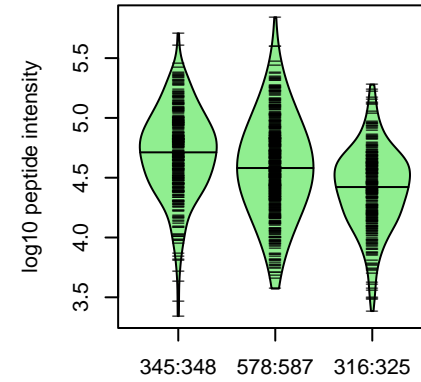
20:31828265:A:G_G
 $p = 1.3e-24$, $\beta = -0.388$, $N = 1245$

LQVNTPLVGASLLR pc2

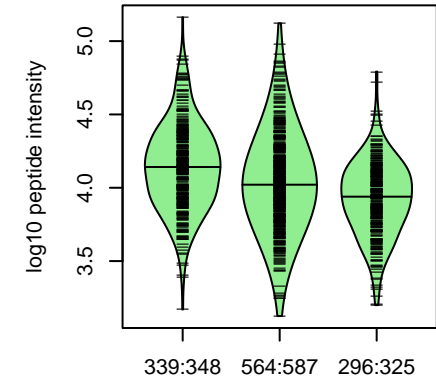
20:31828265:A:G_G
 $p = 2.5e-27$, $\beta = -0.409$, $N = 1244$

LDITAEILAVR pc2

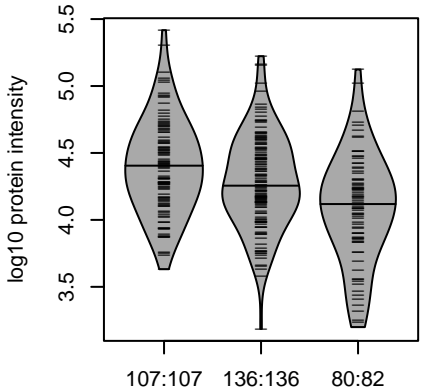
20:31828265:A:G_G
 $p = 4e-25$, $\beta = -0.395$, $N = 1228$

LYVTIPLGIK pc2

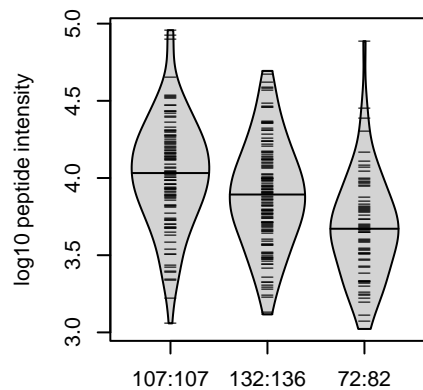
20:31828265:A:G_G
 $p = 2.3e-24$, $\beta = -0.387$, $N = 1239$

VTDPQLLELGLVQSPDGHR pc3

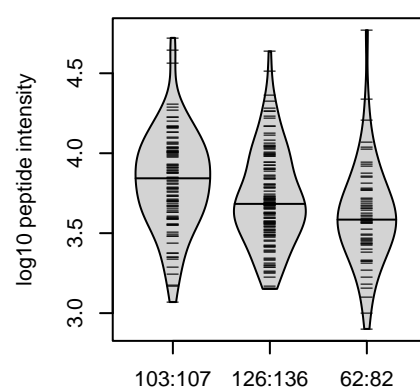
20:31828265:A:G_G
 $p = 4.8e-19$, $\beta = -0.347$, $N = 1199$

Q9NP55 NP1

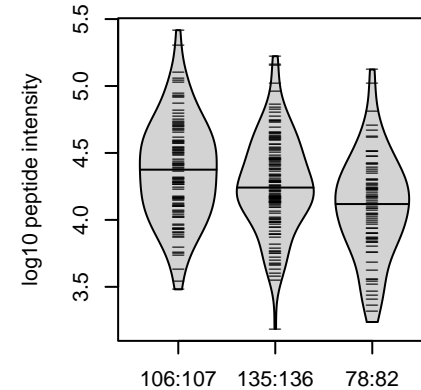
rs6059187
 $p = 1.3e-07$, $\beta = -0.377$, $N = 323$

LQVNTPLVGASLLR pc2

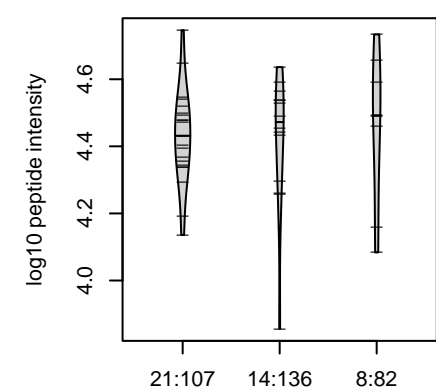
rs6059187
 $p = 1.6e-10$, $\beta = -0.462$, $N = 311$

LDITAEILAVR pc2

rs6059187
 $p = 2.5e-06$, $\beta = -0.362$, $N = 291$

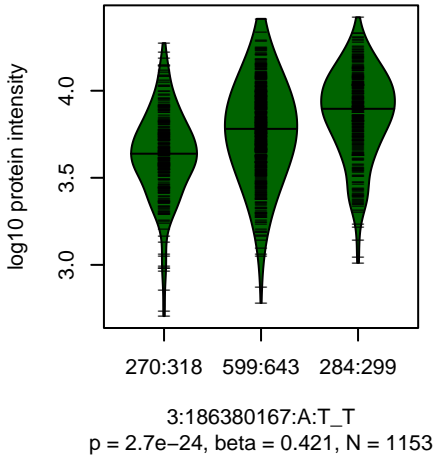
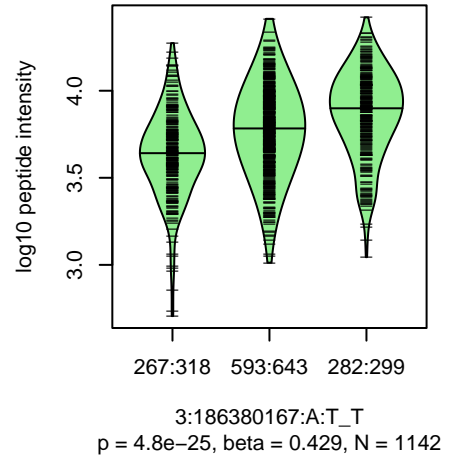
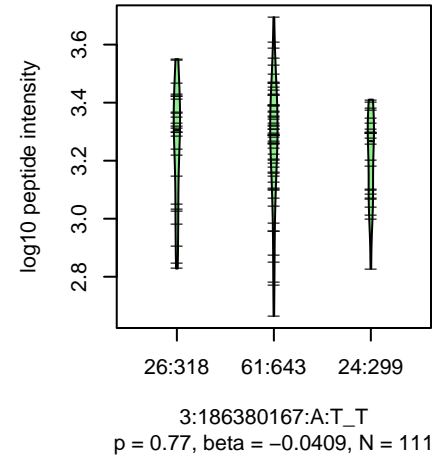
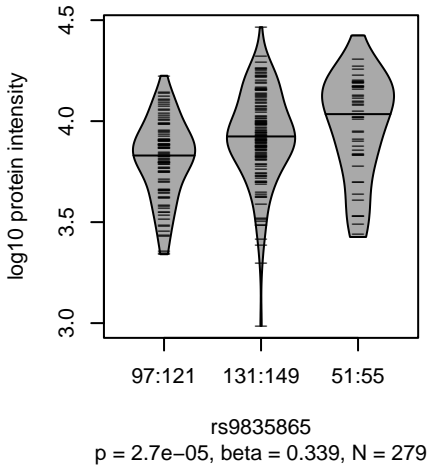
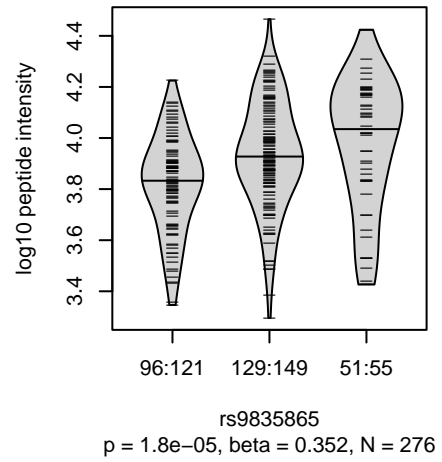
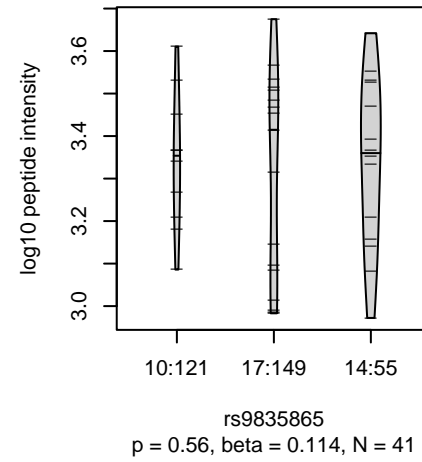
LYVTIPLGIK pc2

rs6059187
 $p = 4e-06$, $\beta = -0.333$, $N = 319$

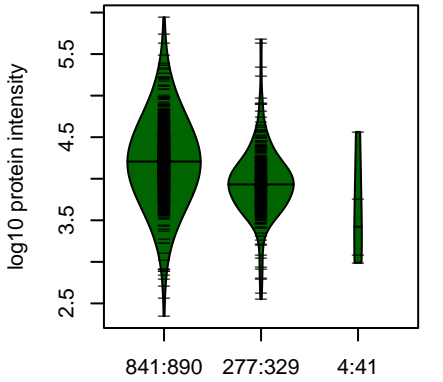
VTDPQLLELGLVQSPDGHR pc3

rs6059187
 $p = 0.69$, $\beta = 0.076$, $N = 43$

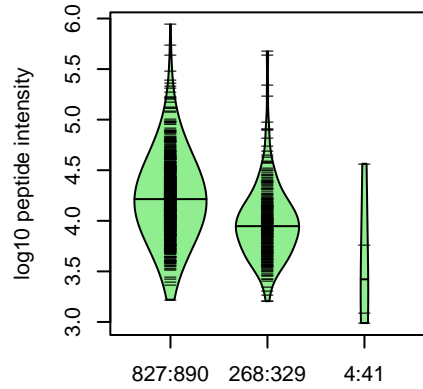
Locus: 59 (Sort: 71)
 Status: Replicated
 80% power: Yes
 SNP: 20:31828265:A:G
 rsID: rs6059187
 UniProtID: Q9NP55
 HGNC gene: BPIFA1
 Type: Cis-pQTL

ZNF618 [trans]**RLLSPEDMNK pc2****ADPFDQGVVATDEVK pc2****Q5T7W0 NP1****RLLSPEDMNK pc2****ADPFDQGVVATDEVK pc2**

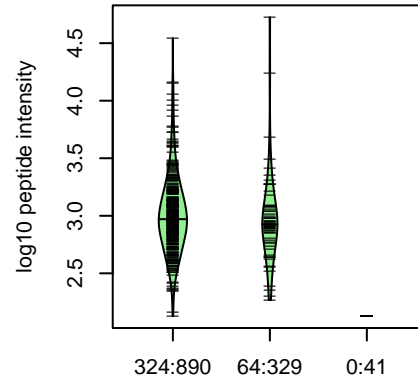
Locus: 60 (Sort: 72)
 Status: Replicated
 80% power: Yes
 SNP: 3:186380167:A:T
 rsID: rs9835865
 UniProtID: Q5T7W0
 HGNC gene: ZNF618
 Type: Trans-pQTL

IGHV2-70 [cis]

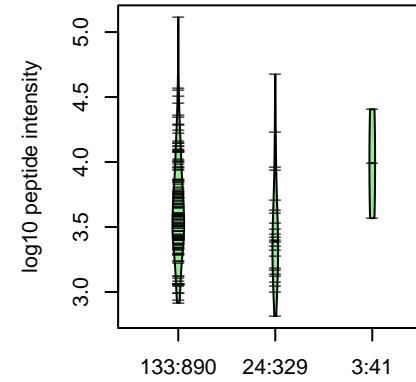
14:107187473:G:A_A
 $p = 6.4e-24$, $\beta = -0.661$, $N = 1122$

YYTSLK pc2

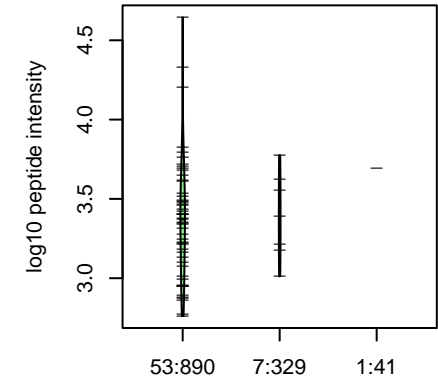
14:107187473:G:A_A
 $p = 1.6e-25$, $\beta = -0.692$, $N = 1099$

ALEWLALIDWDDDK pc2

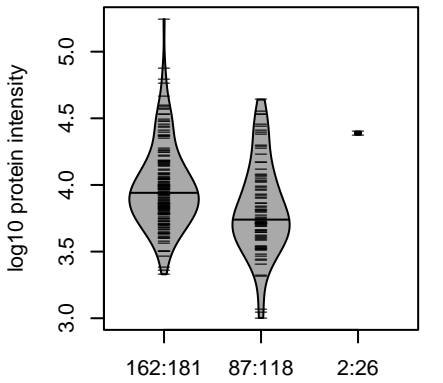
14:107187473:G:A_A
 $p = 0.23$, $\beta = -0.164$, $N = 388$

ESGPALVK pc2

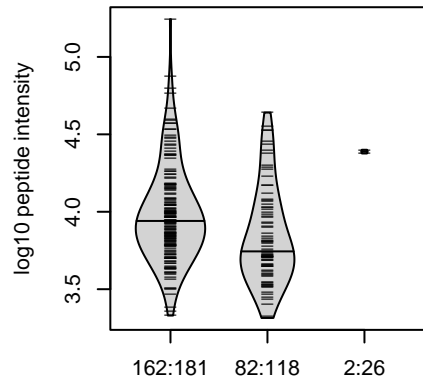
14:107187473:G:A_A
 $p = 0.3$, $\beta = -0.184$, $N = 160$

NQVVLMTNMDPVDTATYYCAR pc2

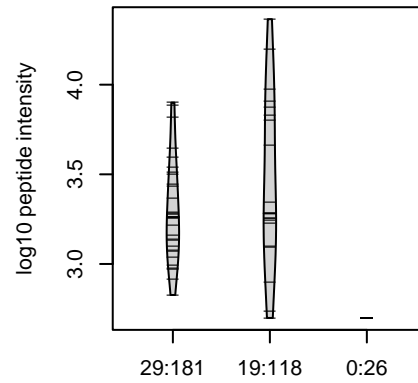
14:107187473:G:A_A
 $p = 0.38$, $\beta = 0.268$, $N = 61$

P01814 NP3

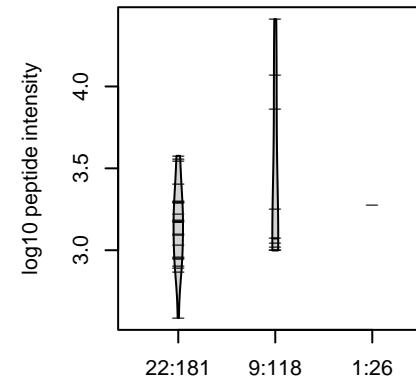
rs74092511
 $p = 0.00067$, $\beta = -0.427$, $N = 251$

YYTSLK pc2

rs74092511
 $p = 0.0053$, $\beta = -0.352$, $N = 246$

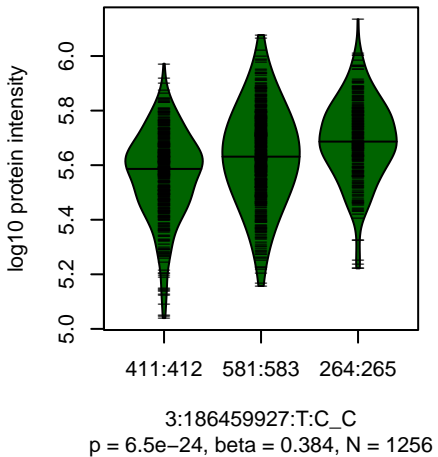
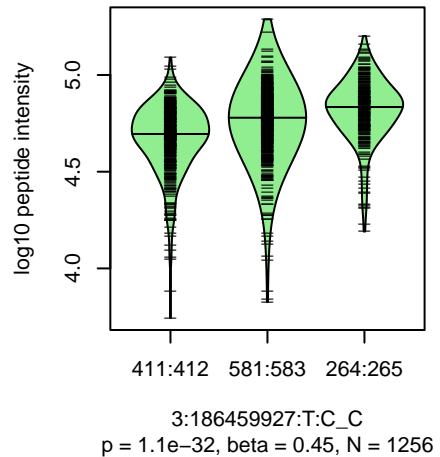
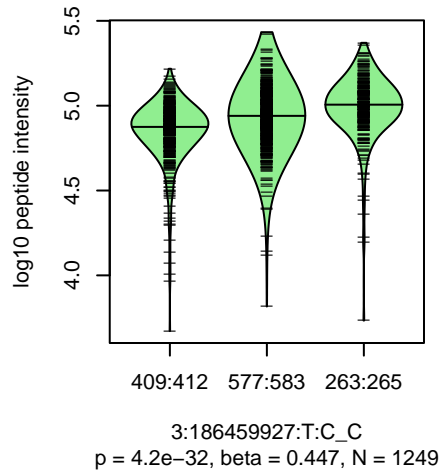
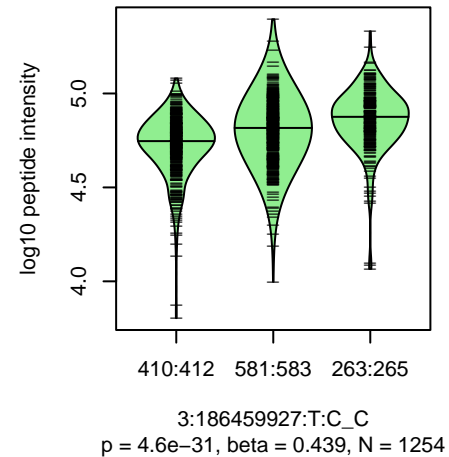
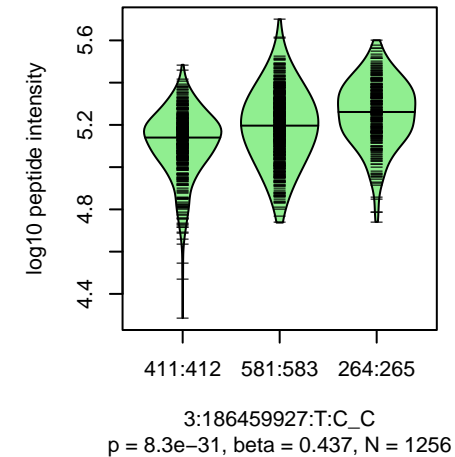
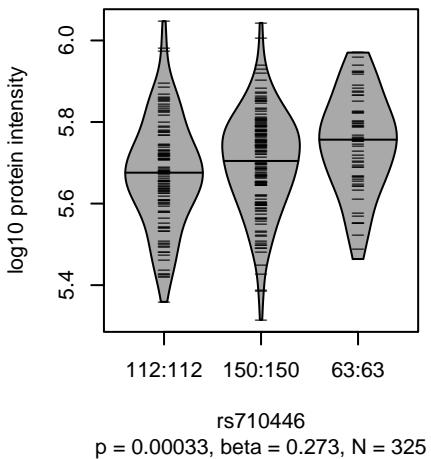
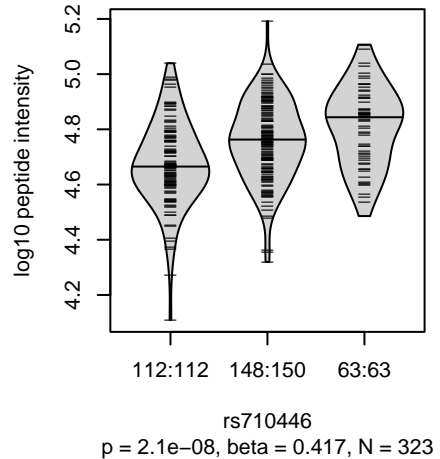
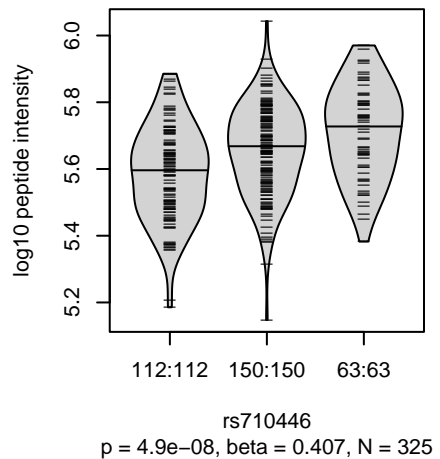
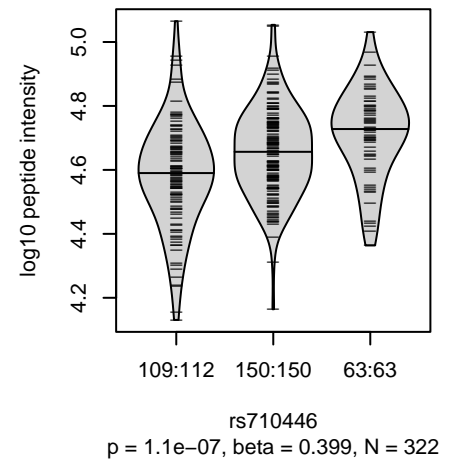
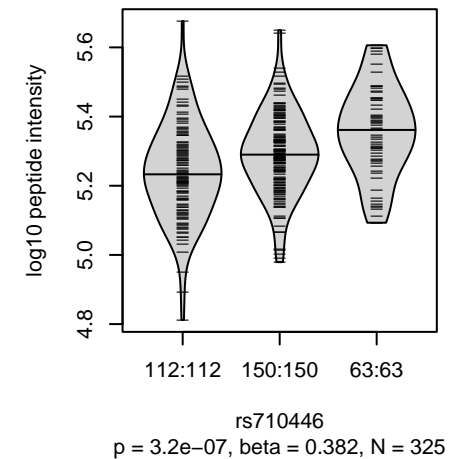
ESGPALVK pc2

rs74092511
 $p = 0.51$, $\beta = 0.187$, $N = 48$

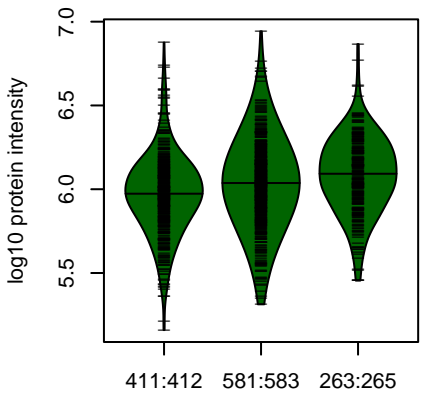
ALEWLALIDWDDDK pc2

rs74092511
 $p = 0.88$, $\beta = -0.0478$, $N = 32$

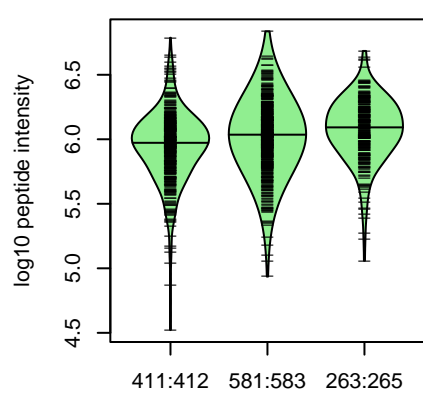
Locus: 61 (Sort: 73)
 Status: Not replicated
 80% power: Yes
 SNP: 14:107187473:G:A
 rsID: rs74092511
 UniProtID: P01814
 HGNC gene: IGHV2-70
 Type: Cis-pQTL

MSN [trans]**IAQDLEMYGVNYFSIK pc2****FYPEDVSEELIQDITQR pc3****SGYLAGDK pc2****GMLREDAVLEYLK pc3****P26038 NP1****IQVWHEEHR pc3****IGFPWSEIR pc2****ILALCMGNHELYMR pc3****APDFVFYAPR pc2**

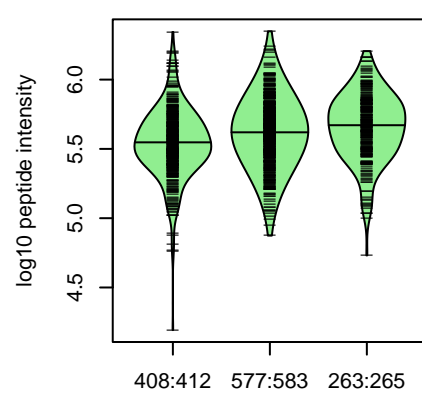
Locus: 62 (Sort: 74)
 Status: Not replicated
 80% power: Yes
 SNP: 3:186459927:T:C
 rsID: rs710446
 UniProtID: P26038
 HGNC gene: MSN
 Type: Trans-pQTL

ITIH4 [trans]

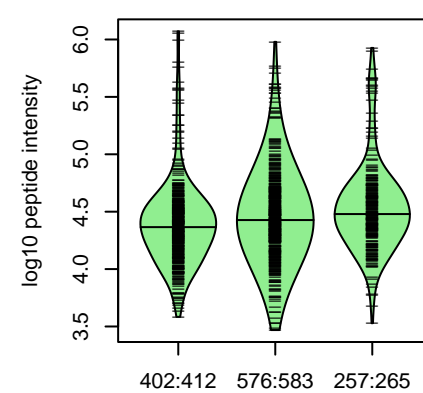
3:186459927:T:C_C
 $p = 4e-13$, $\beta = 0.279$, $N = 1255$

YYLQGAK pc2

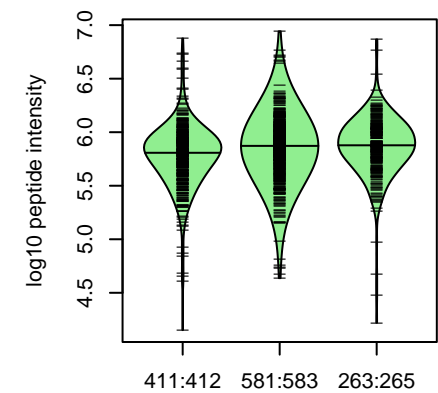
3:186459927:T:C_C
 $p = 5.7e-14$, $\beta = 0.289$, $N = 1255$

NVHSGSTFFK pc2

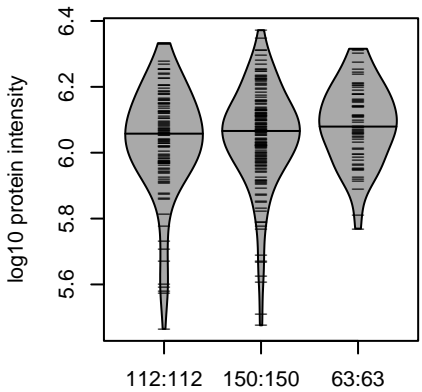
3:186459927:T:C_C
 $p = 2.4e-12$, $\beta = 0.27$, $N = 1248$

IPKPEASFSPR pc3

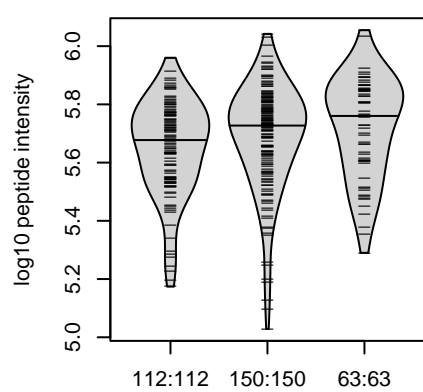
3:186459927:T:C_C
 $p = 1.7e-08$, $\beta = 0.22$, $N = 1235$

PEASFSPR pc2

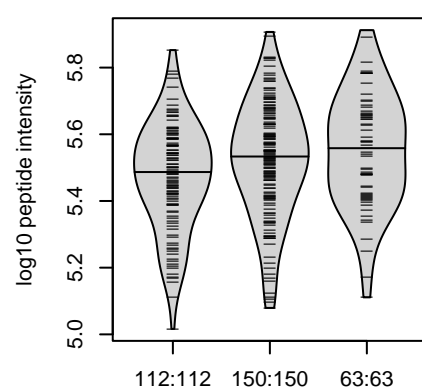
3:186459927:T:C_C
 $p = 7.6e-07$, $\beta = 0.191$, $N = 1255$

Q14624 NP3

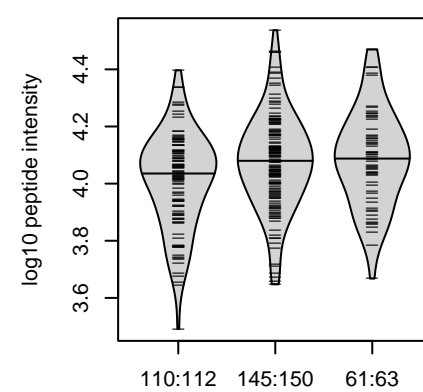
rs710446
 $p = 0.067$, $\beta = 0.142$, $N = 325$

NVHSGSTFFK pc2

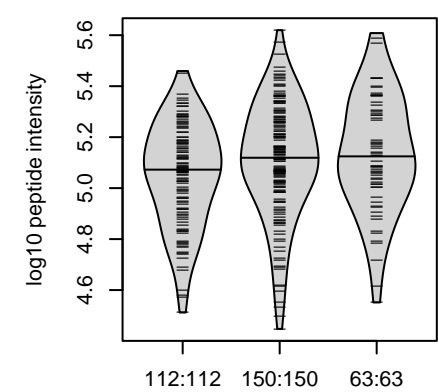
rs710446
 $p = 0.00099$, $\beta = 0.249$, $N = 325$

AEAQAQYSAAVAK pc2

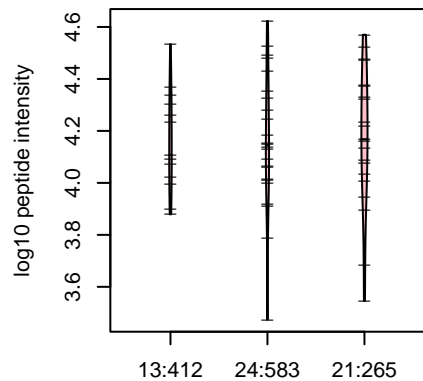
rs710446
 $p = 0.0013$, $\beta = 0.243$, $N = 325$

PTLSQQQK pc2

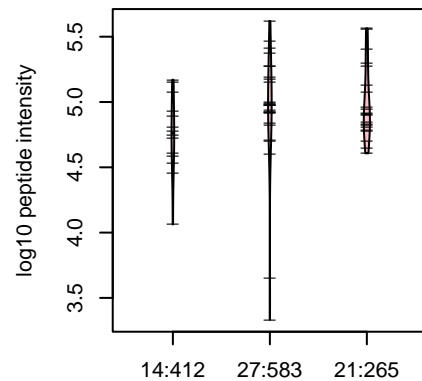
rs710446
 $p = 0.0037$, $\beta = 0.223$, $N = 316$

FAHTVVTSR pc2

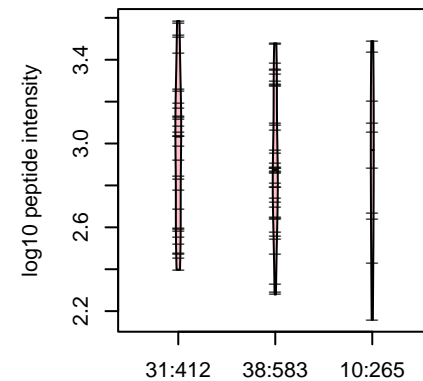
rs710446
 $p = 0.0057$, $\beta = 0.21$, $N = 325$

**LLGLPAPPDVPDHAAYHPFRR pc4
rs2276814 ALT**

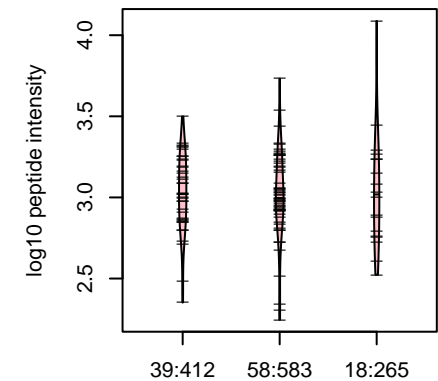
3:186459927:T:C_C
 $p = 0.0074$, model = DOM, $N = 58$

**LLGLPAPPDVPDHAAYHPFRR pc4
rs2276814 ALT**

3:186459927:T:C_C
 $p = 0.016$, model = DOM, $N = 62$

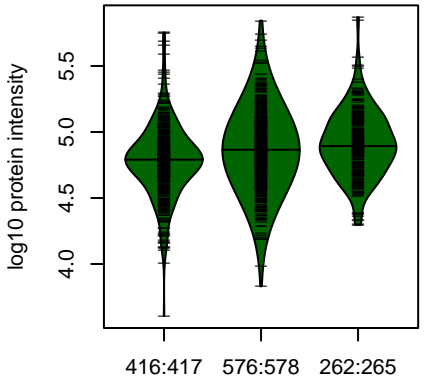
**AFITNFSMIIDGMTYPGIIK pc3
rs13072536 REF**

3:186459927:T:C_C
 $p = 0.064$, model = DOM, $N = 79$

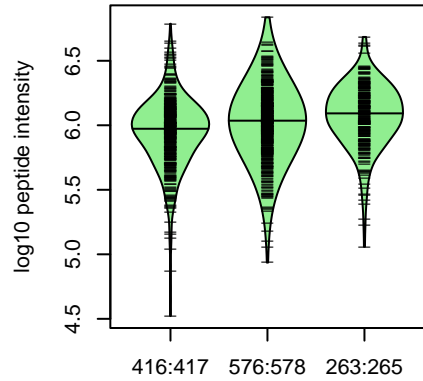
**AFITNFSMNIDGMTYPGIIK pc3
rs13072536 ALT**

3:186459927:T:C_C
 $p = 0.15$, model = DOM, $N = 115$

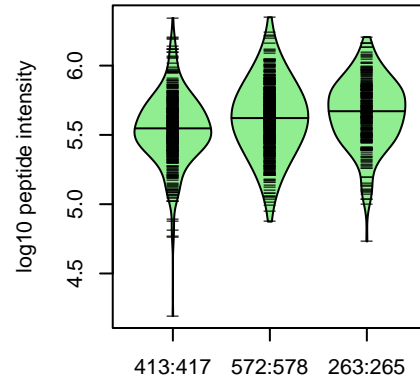
Locus: 62 (Sort: 75)
 Status: Not replicated
 80% power: No
 SNP: 3:186459927:T:C
 rsID: rs710446
 UniProtID: Q14624
 HGNC gene: ITIH4
 Type: Trans-pQTL

ITIH4 [trans]

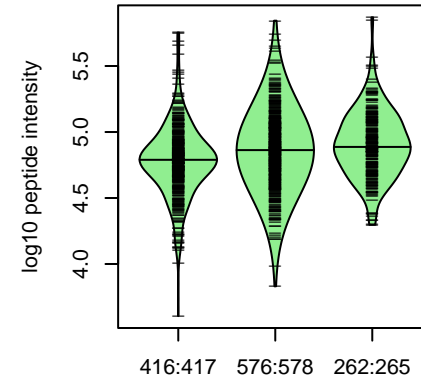
416:417 576:578 262:265
3:186459227:A:G_G
 $p = 1.3e-12$, $\beta = 0.272$, $N = 1254$

YYLQGAK pc2

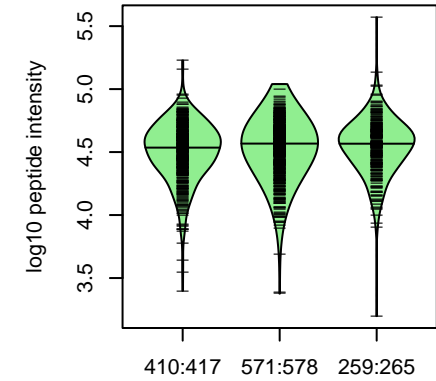
416:417 576:578 263:265
3:186459227:A:G_G
 $p = 6.3e-14$, $\beta = 0.288$, $N = 1255$

NVHSGSTFFK pc2

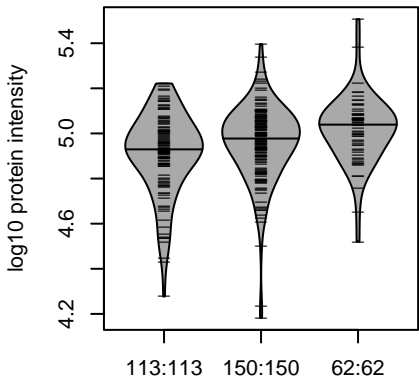
413:417 572:578 263:265
3:186459227:A:G_G
 $p = 1.9e-12$, $\beta = 0.271$, $N = 1248$

PGLDHTTEASFSPR pc3

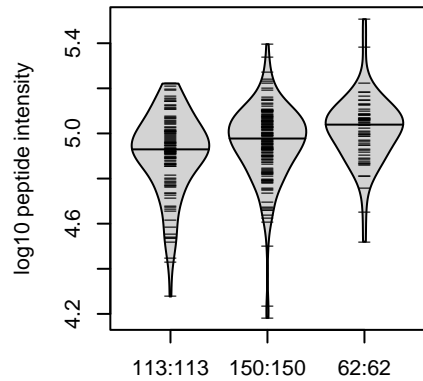
416:417 576:578 262:265
3:186459227:A:G_G
 $p = 2.3e-12$, $\beta = 0.27$, $N = 1254$

ANTVQEATFQMELPK pc2

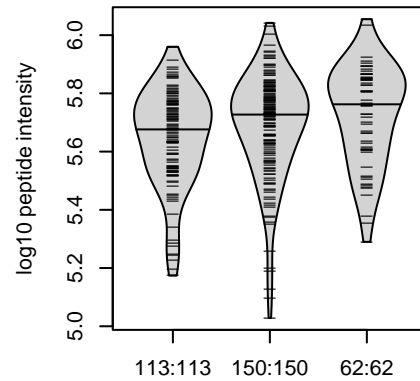
410:417 571:578 259:265
3:186459227:A:G_G
 $p = 0.0091$, $\beta = 0.102$, $N = 1240$

B7ZKJ8 NP3

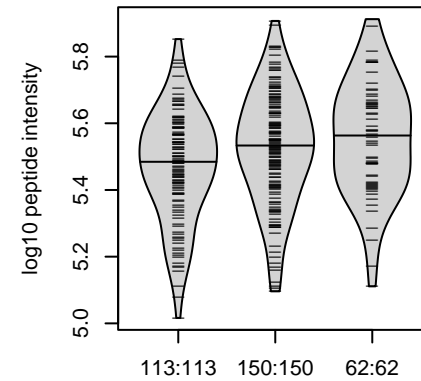
113:113 150:150 62:62
rs698078
 $p = 2.5e-05$, $\beta = 0.321$, $N = 325$

PGLDHTTEASFSPR pc3

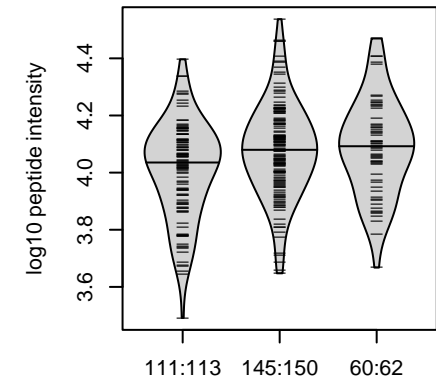
113:113 150:150 62:62
rs698078
 $p = 3.1e-05$, $\beta = 0.314$, $N = 325$

NVHSGSTFFK pc2

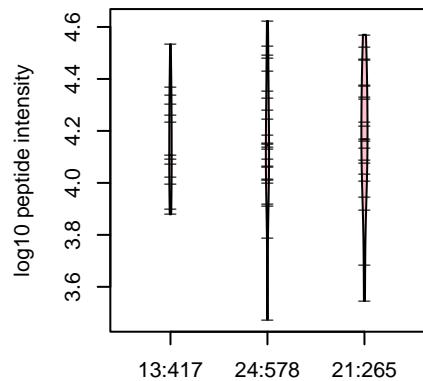
113:113 150:150 62:62
rs698078
 $p = 4e-04$, $\beta = 0.268$, $N = 325$

AEAQAQYSAAVAK pc2

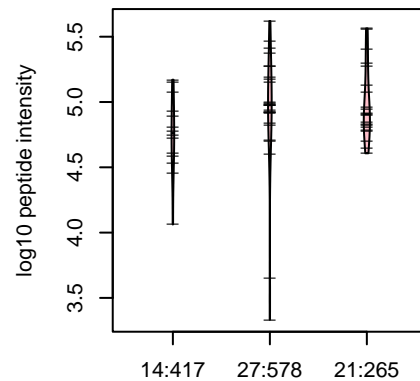
113:113 150:150 62:62
rs698078
 $p = 0.00056$, $\beta = 0.262$, $N = 325$

PTLSQQQK pc2

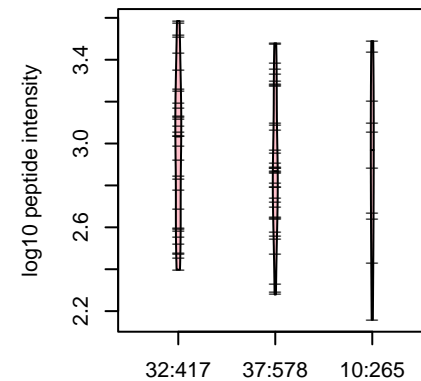
111:113 145:150 60:62
rs698078
 $p = 0.002$, $\beta = 0.237$, $N = 316$

**LLGLPAPPDVPDHAAYHPFR pc4
rs2276814 ALT**

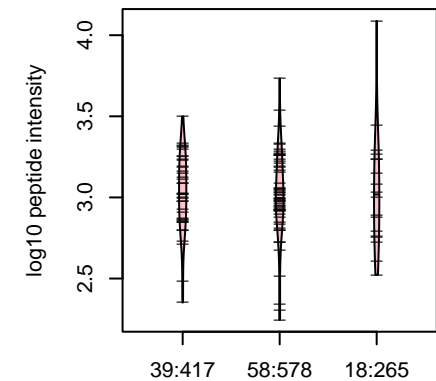
13:417 24:578 21:265
3:186459227:A:G_G
 $p = 0.0074$, $\text{model} = \text{DOM}$, $N = 58$

**LLGLPAPPDVPDHAAYHPFR pc4
rs2276814 ALT**

14:417 27:578 21:265
3:186459227:A:G_G
 $p = 0.016$, $\text{model} = \text{DOM}$, $N = 62$

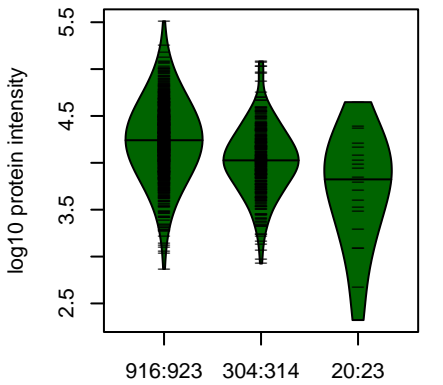
**AFITNFSMIIDGMTYPGIIK pc3
rs13072536 REF**

32:417 37:578 10:265
3:186459227:A:G_G
 $p = 0.064$, $\text{model} = \text{DOM}$, $N = 79$

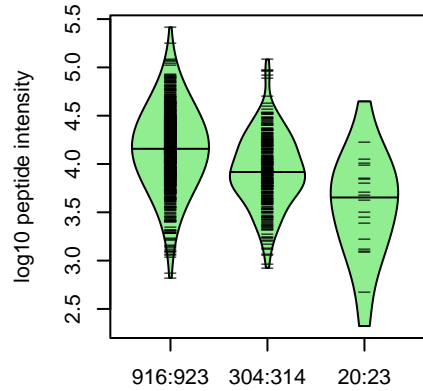
**AFITNFSMNIDGMTYPGIIK pc3
rs13072536 ALT**

39:417 58:578 18:265
3:186459227:A:G_G
 $p = 0.15$, $\text{model} = \text{DOM}$, $N = 115$

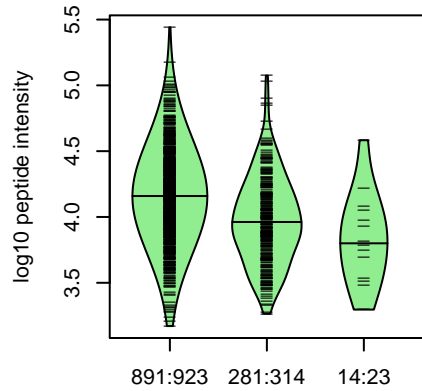
Locus: 62 (Sort: 76)
Status: Replicated
80% power: No
SNP: 3:186459227:A:G
rsID: rs698078
UniProtID: B7ZKJ8
HGNC gene: ITIH4
Type: Trans-pQTL

SFTPD [cis]

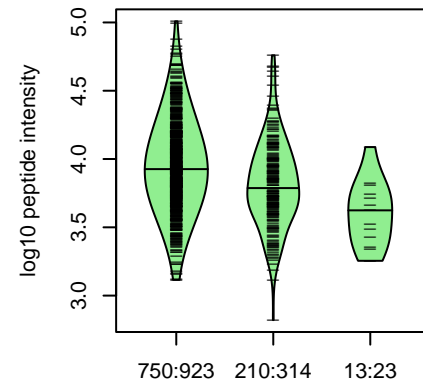
10:81679949:G:A_A
 $p = 1.9e-23$, $\beta = -0.573$, $N = 1240$

SAAENAALQQLVVAK pc2

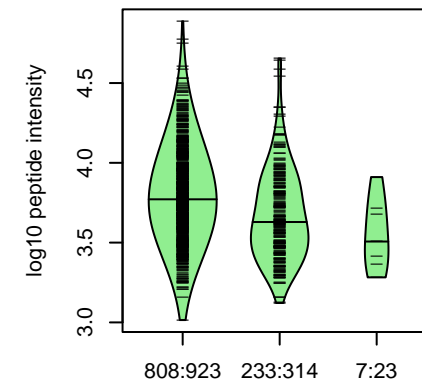
10:81679949:G:A_A
 $p = 2.1e-24$, $\beta = -0.585$, $N = 1240$

NEAFLSMTDSK pc2

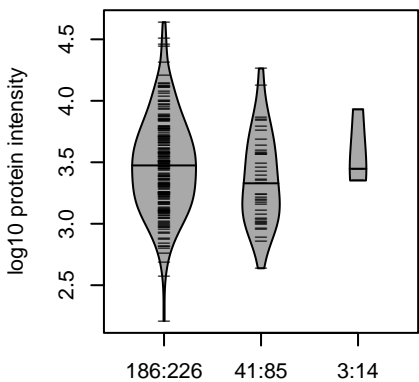
10:81679949:G:A_A
 $p = 1.2e-16$, $\beta = -0.508$, $N = 1186$

KVELFPNGQSVGEK pc3

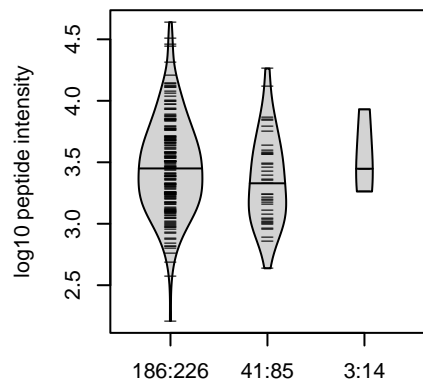
10:81679949:G:A_A
 $p = 1.1e-11$, $\beta = -0.467$, $N = 973$

QGNIGPQGK pc2

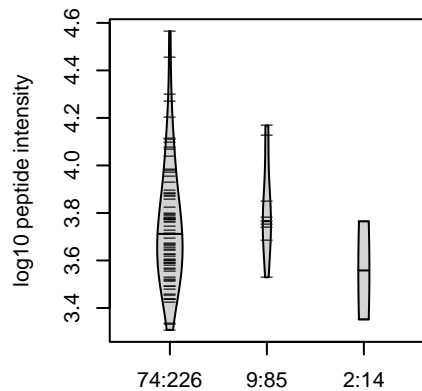
10:81679949:G:A_A
 $p = 4.4e-11$, $\beta = -0.456$, $N = 1048$

P35247 NP5

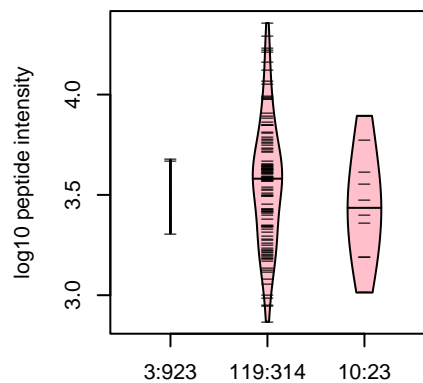
rs45558131
 $p = 0.037$, $\beta = -0.314$, $N = 230$

SAAENAALQQLVVAK pc2

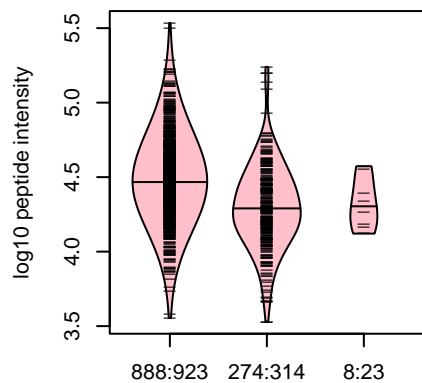
rs45558131
 $p = 0.033$, $\beta = -0.318$, $N = 230$

NEAFLSMTDSK pc2

rs45558131
 $p = 0.54$, $\beta = -0.154$, $N = 85$

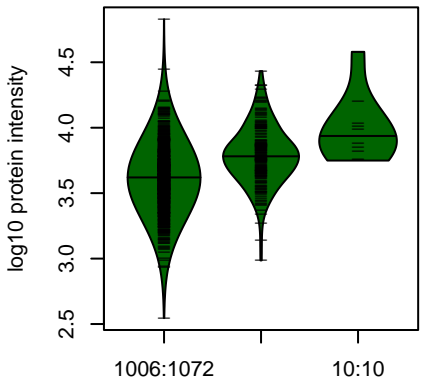
**PFTEAQLLCTQAGGQLATPR pc3
rs3088308 ALT**

10:81679949:G:A_A
 $p = 1.1e-78$, $\text{model} = \text{REC}$, $N = 132$

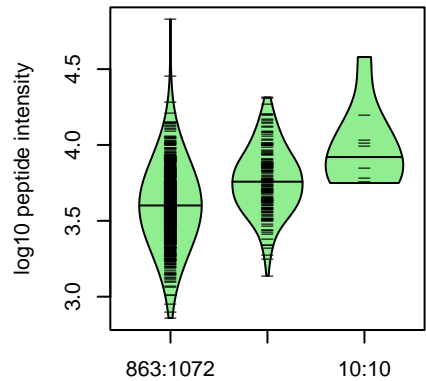
**PFTEAQLLCTQAGGQLASPR pc3
rs3088308 REF**

10:81679949:G:A_A
 $p = 6.3e-13$, $\text{model} = \text{DOM}$, $N = 1170$

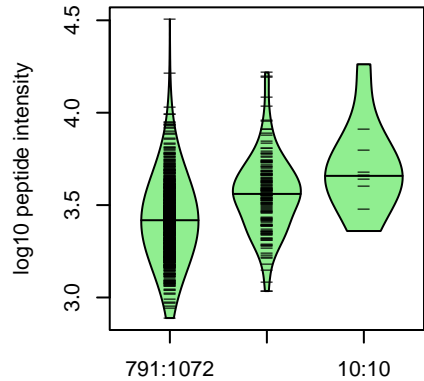
Locus: 64 (Sort: 78)
 Status: Not replicated
 80% power: No
 SNP: 10:81679949:G:A
 rsID: rs45558131
 UniProtID: P35247
 HGNC gene: SFTPD
 Type: Cis-pQTL

ANXA5 [cis]

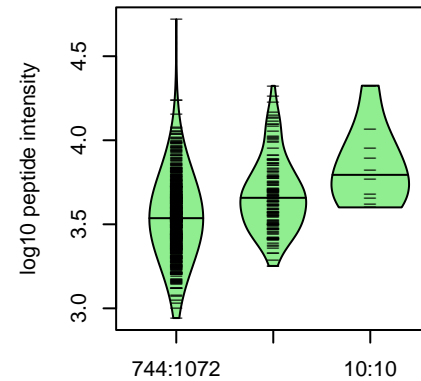
4:122615760:G:A_A
 $p = 2.6e-23$, $\beta = 0.718$, $N = 1190$

FITIFGTR pc2

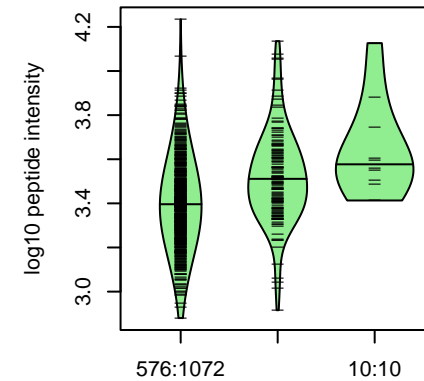
4:122615760:G:A_A
 $p = 3.3e-19$, $\beta = 0.672$, $N = 1034$

GTVTDFPGFDER pc2

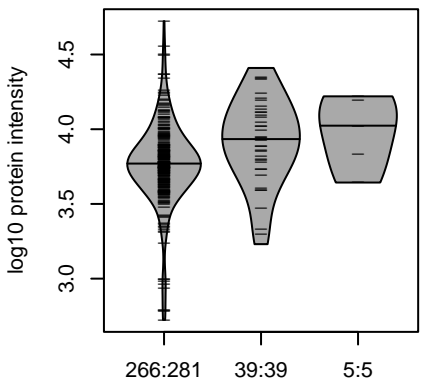
4:122615760:G:A_A
 $p = 3.1e-15$, $\beta = 0.604$, $N = 957$

SEIDLFNIR pc2

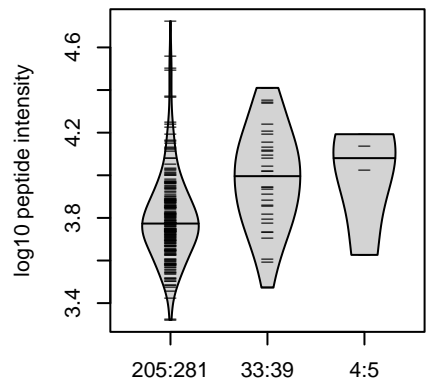
4:122615760:G:A_A
 $p = 1.6e-12$, $\beta = 0.55$, $N = 905$

NFATSLYSMIK pc2

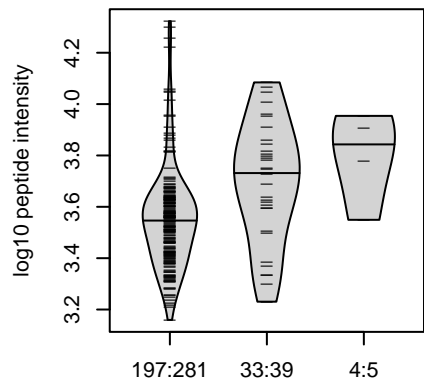
4:122615760:G:A_A
 $p = 1e-10$, $\beta = 0.532$, $N = 721$

P08758 NP1

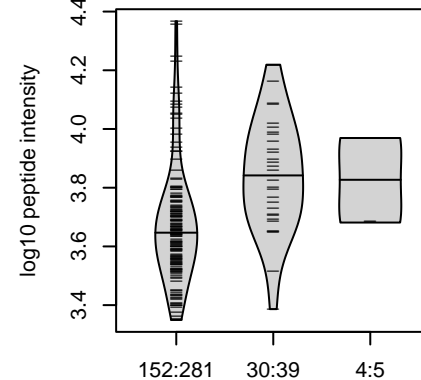
rs9995591
 $p = 0.00047$, $\beta = 0.474$, $N = 310$

FITIFGTR pc2

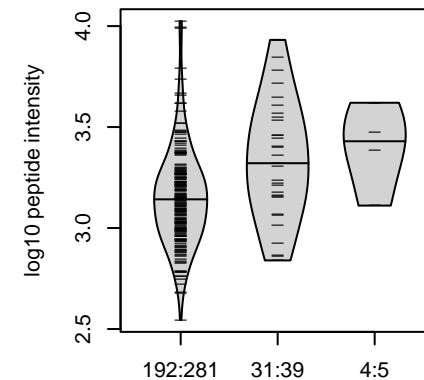
rs9995591
 $p = 0.00012$, $\beta = 0.575$, $N = 242$

GTVTDFPGFDER pc2

rs9995591
 $p = 0.00014$, $\beta = 0.57$, $N = 234$

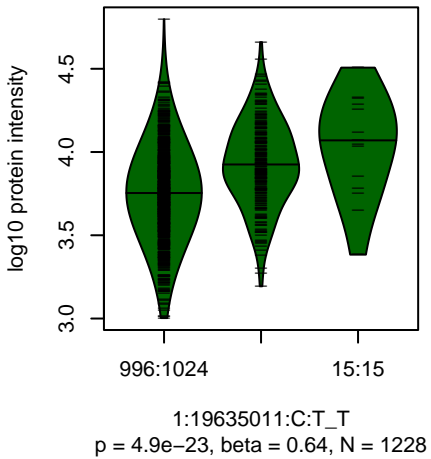
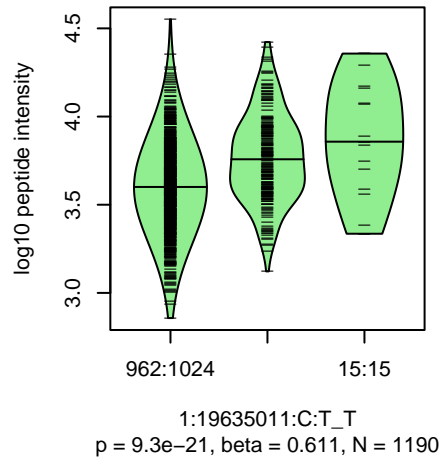
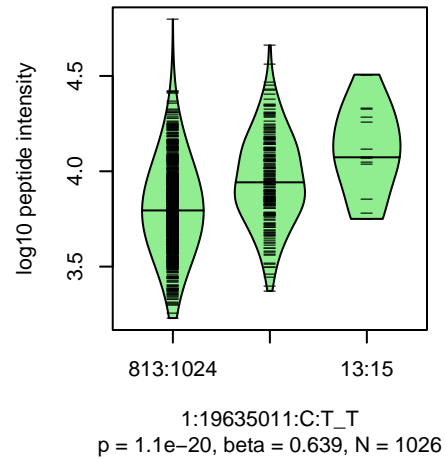
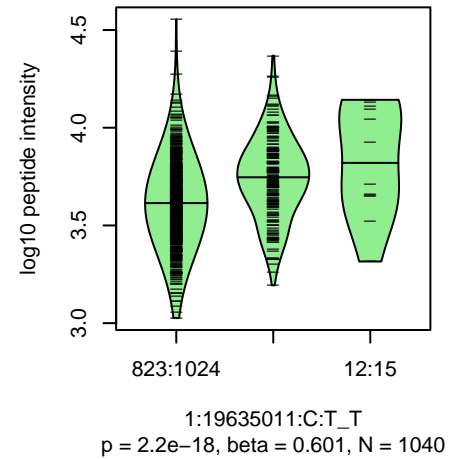
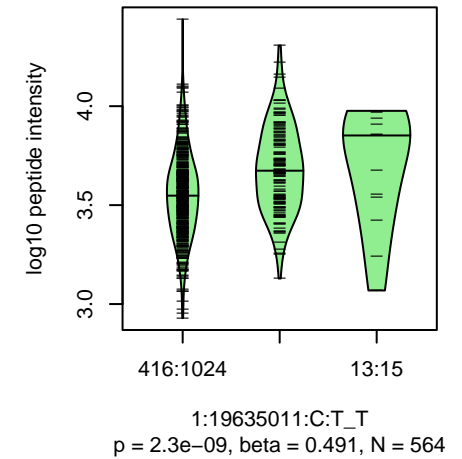
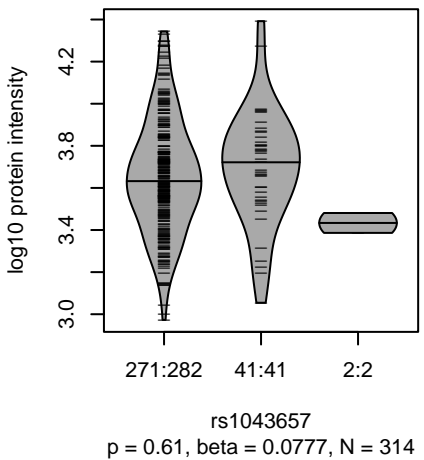
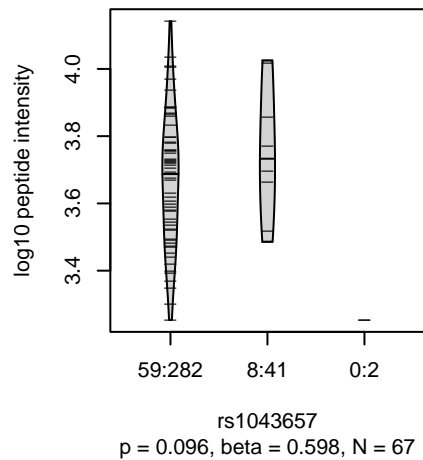
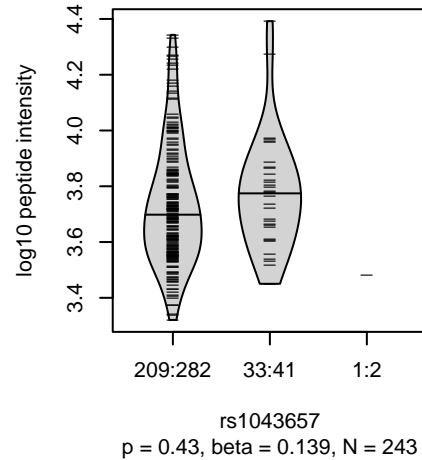
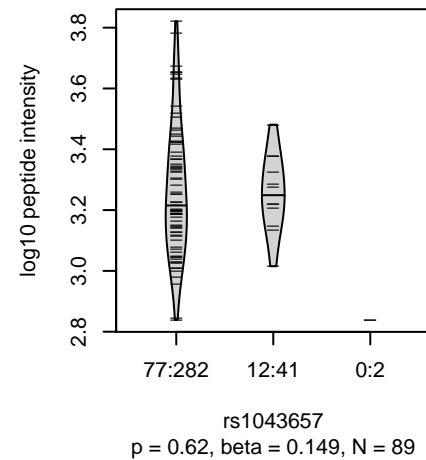
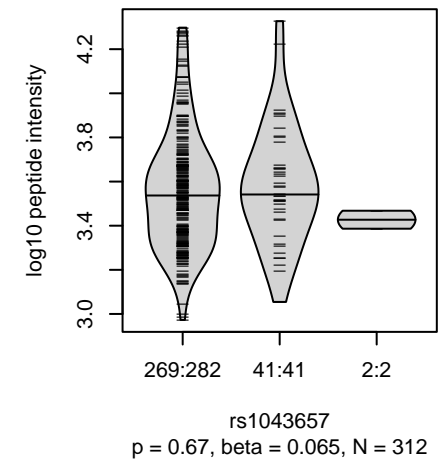
SEIDLFNIR pc2

rs9995591
 $p = 0.00017$, $\beta = 0.586$, $N = 186$

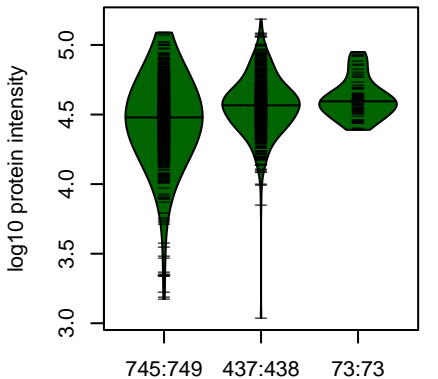
GLGTDEESILLLLTSR pc2

rs9995591
 $p = 0.00055$, $\beta = 0.529$, $N = 227$

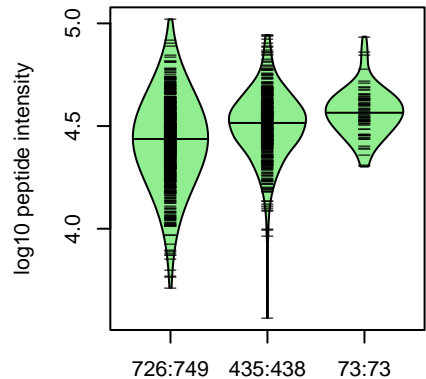
Locus: 65 (Sort: 79)
 Status: Not replicated
 80% power: Yes
 SNP: 4:122615760:G:A
 rsID: rs9995591
 UniProtID: P08758
 HGNC gene: ANXA5
 Type: Cis-pQTL

AKR7A2 [cis]**FYAYNPLAGLLTGK pc2****VASVLGTMEMGR pc2****QVETELFPCLR pc2****MDAPASAAAVR pc2****O43488 NP5****MDAPASAAAVR pc2****VASVLGTMEMGR pc2****ALQAAYGASAPSVTSAALR pc2****FYAYNPLAGLLTGK pc2**

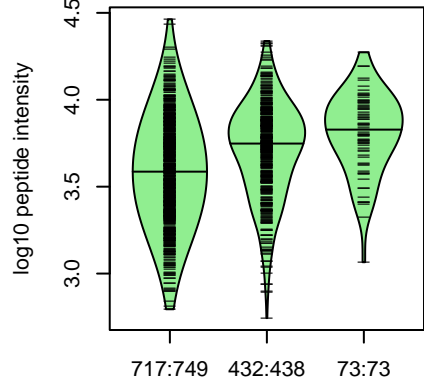
Locus: 66 (Sort: 80)
 Status: Not replicated
 80% power: Yes
 SNP: 1:19635011:C:T
 rsID: rs1043657
 UniProtID: O43488
 HGNC gene: AKR7A2
 Type: Cis-pQTL

HLA-B [cis]

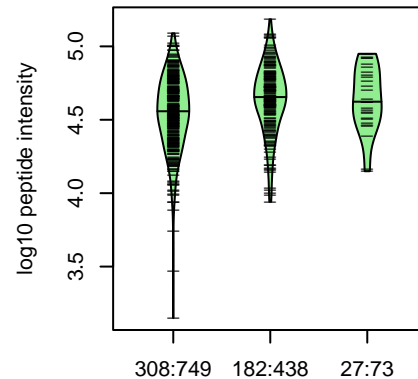
6:31117619:T:C_T
 $p = 1.2e-22$, $\beta = 0.447$, $N = 1255$

FDSAASPR pc2

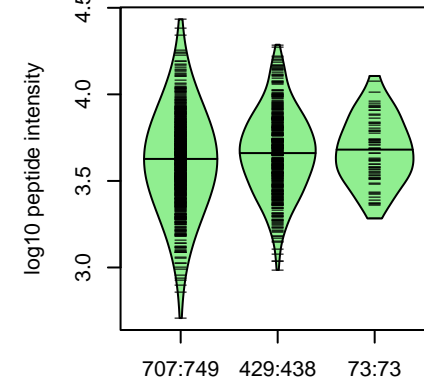
6:31117619:T:C_T
 $p = 3.2e-28$, $\beta = 0.503$, $N = 1234$

SWTAADTAAQITQR pc2

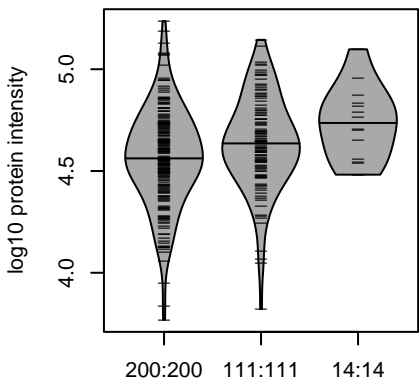
6:31117619:T:C_T
 $p = 7.1e-27$, $\beta = 0.492$, $N = 1222$

DYIALNEDLR pc2

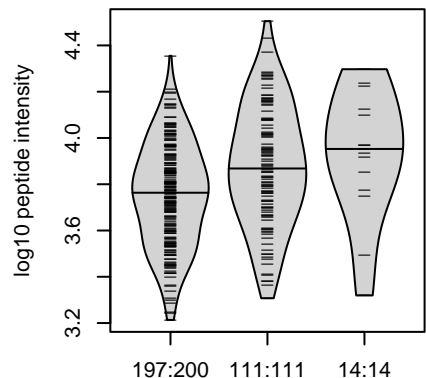
6:31117619:T:C_T
 $p = 2.1e-08$, $\beta = 0.405$, $N = 517$

DGEDQTQDTELVETRPAGDR pc3

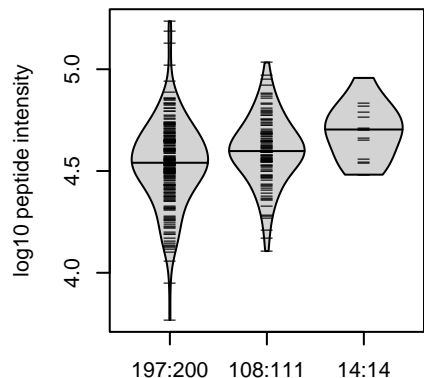
6:31117619:T:C_T
 $p = 0.00026$, $\beta = 0.172$, $N = 1209$

P01889 NP2

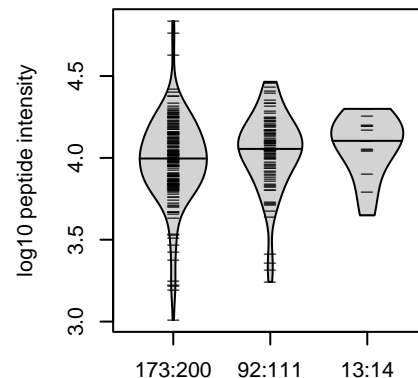
rs3130498
 $p = 0.0018$, $\beta = 0.294$, $N = 325$

SWTAADTAAQITQR pc2

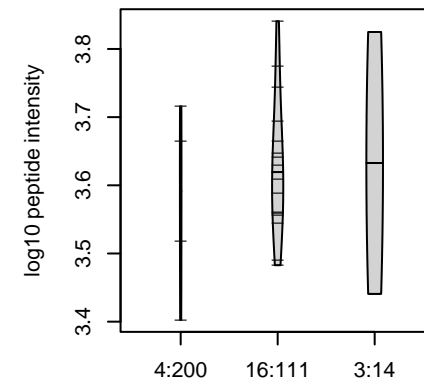
rs3130498
 $p = 1.5e-05$, $\beta = 0.408$, $N = 322$

FDSAASPR pc2

rs3130498
 $p = 0.00027$, $\beta = 0.346$, $N = 319$

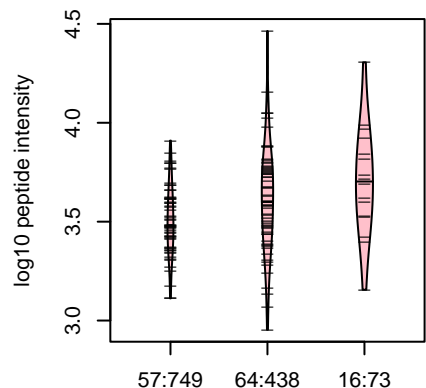
DGEDQTQDTELVETRPAGDR pc3

rs3130498
 $p = 0.022$, $\beta = 0.232$, $N = 278$

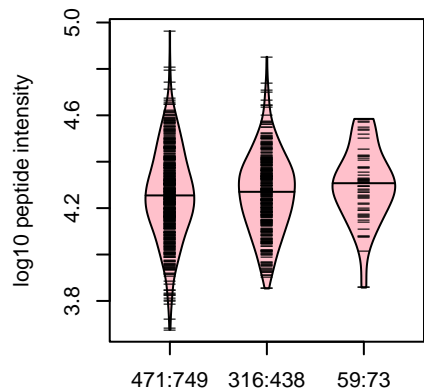
RAYLEGECVEWLR pc3

rs3130498
 $p = 0.069$, $\beta = 0.617$, $N = 23$

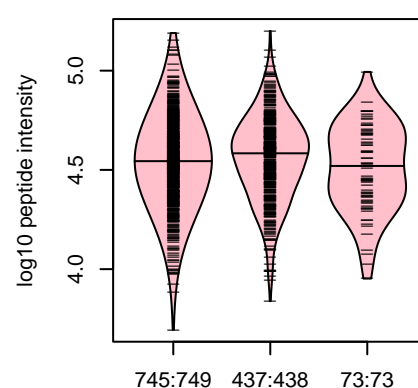
Locus: 67 (Sort: 81)
 Status: Not replicated
 80% power: Yes
 SNP: 6:31117619:T:C
 rsID: rs3130498
 UniProtID: P01889
 HGNC gene: HLA-B
 Type: Cis-pQTL

**GEPRFISGVYDDTQFVR pc3
rs1050437 REF**

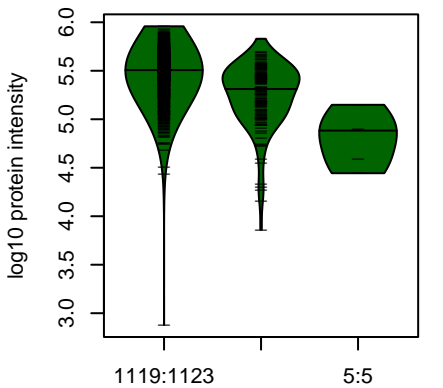
6:31117619:T:C_T
 $p = 8.6e-06$, model = REC, $N = 137$

**FISVGYVDDTQFVR pc2
rs1050437 REF**

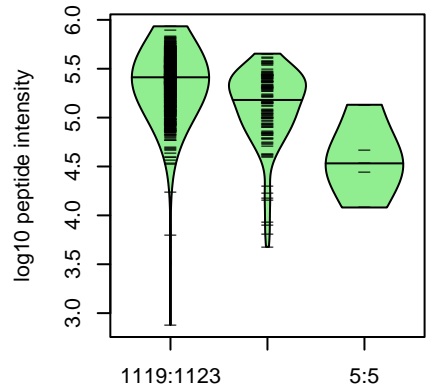
6:31117619:T:C_T
 $p = 9.3e-05$, model = REC, $N = 846$

**WAAVVPSGEEQR pc2
rs707908;rs1736924 ALT**

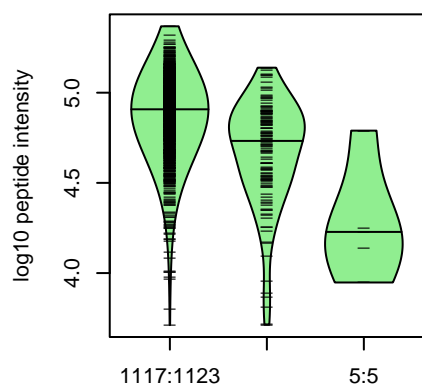
6:31117619:T:C_T
 $p = 0.65$, model = REC, $N = 1255$

MST1 [cis]

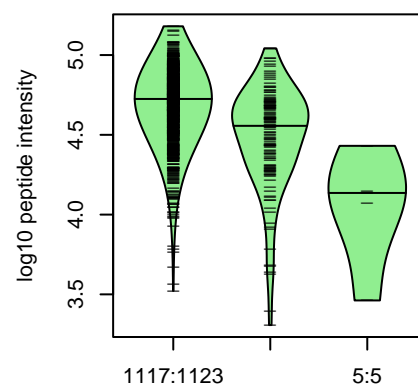
3:49956036:G:A_A
 p = 1.2e-22, beta = -0.823, N = 1255

MVCGPSGSQLVLLK pc2

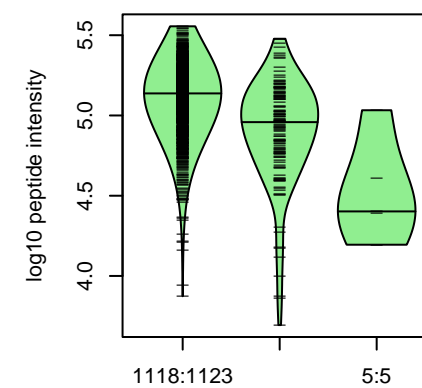
3:49956036:G:A_A
 p = 9.7e-23, beta = -0.825, N = 1255

QEATTVSCFR pc2

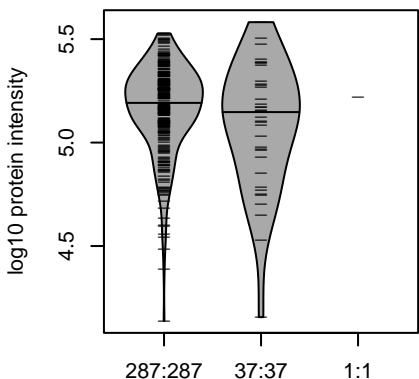
3:49956036:G:A_A
 p = 3.7e-22, beta = -0.819, N = 1251

CGPLMDCR pc2

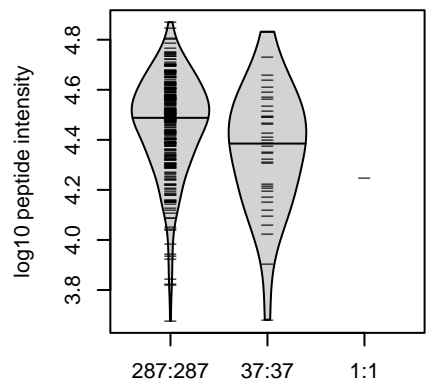
3:49956036:G:A_A
 p = 8e-20, beta = -0.77, N = 1252

TPFDYCALR pc2

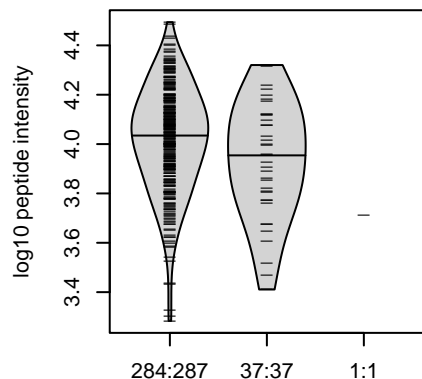
3:49956036:G:A_A
 p = 1.8e-19, beta = -0.761, N = 1254

G3XAK1 NP3

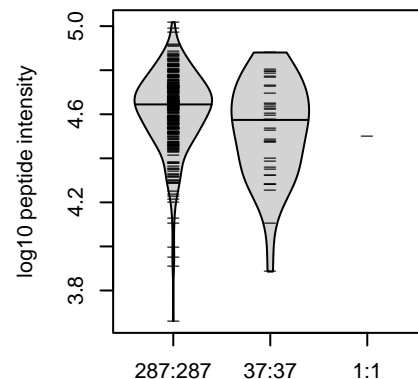
rs142344547
 p = 0.19, beta = -0.208, N = 325

TCIMNNGVGYR pc2

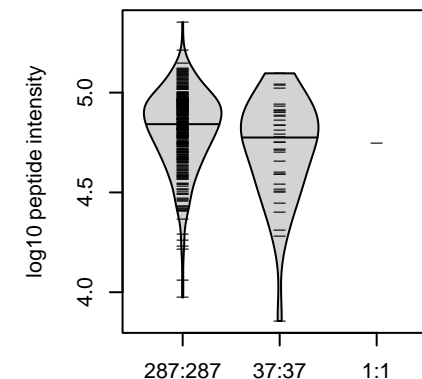
rs142344547
 p = 0.0035, beta = -0.475, N = 325

WDAQIPHQHR pc2

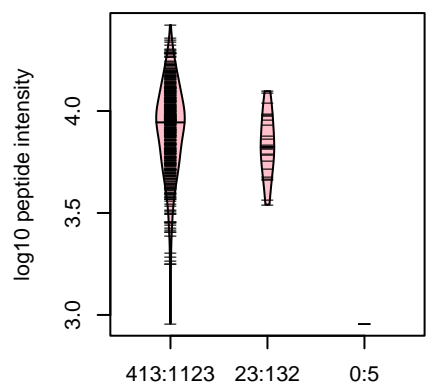
rs142344547
 p = 0.0068, beta = -0.442, N = 322

QEATTVSCFR pc2

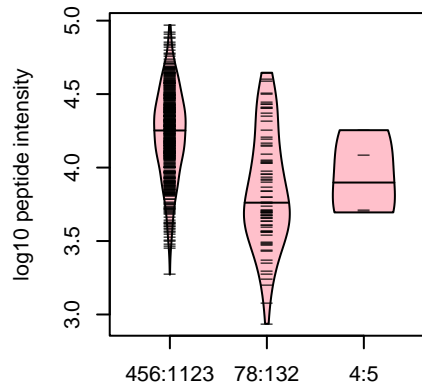
rs142344547
 p = 0.011, beta = -0.416, N = 325

TPFDYCALR pc2

rs142344547
 p = 0.011, beta = -0.415, N = 325

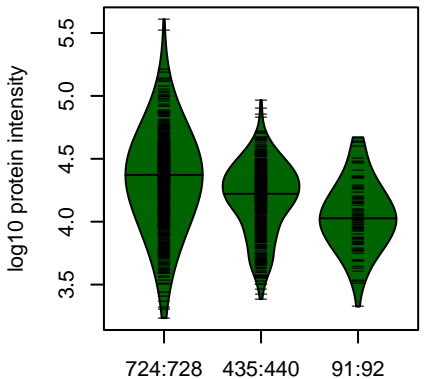
**WPAVFTR pc2
rs3197999 REF**

3:49956036:G:A_A
 p = 1.5e-06, model = REC, N = 436

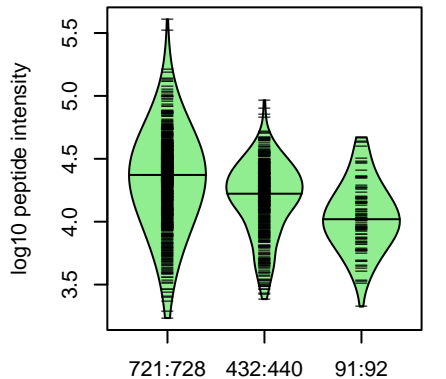
**SCWPAVFTR pc2
rs3197999 ALT**

3:49956036:G:A_A
 p = 2.3e-05, model = REC, N = 538

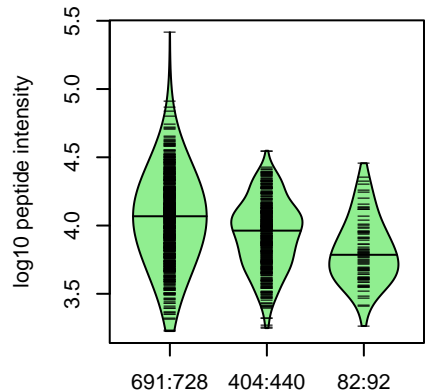
Locus: 68 (Sort: 82)
 Status: Not replicated
 80% power: Yes
 SNP: 3:49956036:G:A
 rsID: rs142344547
 UniProtID: G3XAK1
 HGNC gene: MST1
 Type: Cis-pQTL

HSPB1 [cis]

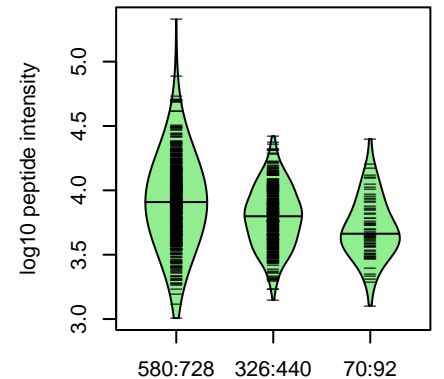
7:75924218:G:T_T
 $p = 2.6e-22$, $\beta = -0.427$, $N = 1250$

VSLDVNHFAPDELTVK pc3

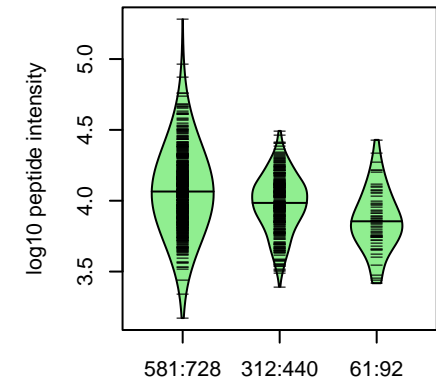
7:75924218:G:T_T
 $p = 2.1e-22$, $\beta = -0.429$, $N = 1244$

QLSSGVSEIR pc2

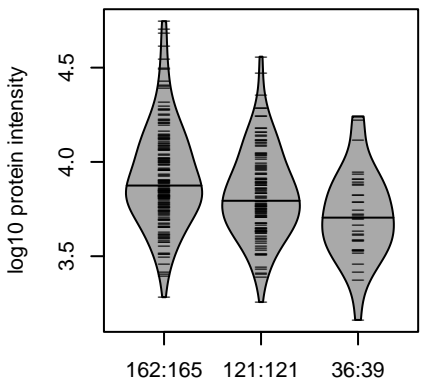
7:75924218:G:T_T
 $p = 9.6e-17$, $\beta = -0.381$, $N = 1177$

DGVVEITGK pc2

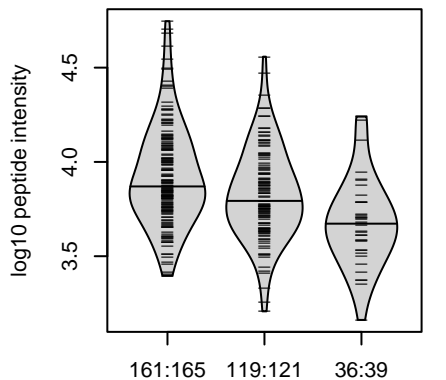
7:75924218:G:T_T
 $p = 6.5e-14$, $\beta = -0.376$, $N = 976$

AQLGGPEAAK pc2

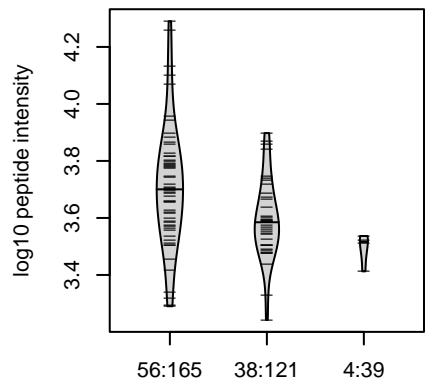
7:75924218:G:T_T
 $p = 4e-13$, $\beta = -0.376$, $N = 954$

P04792 NP4

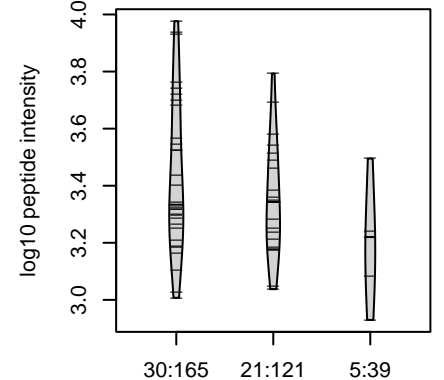
rs2908203
 $p = 4.5e-05$, $\beta = -0.325$, $N = 319$

VSLDVNHFAPDELTVK pc3

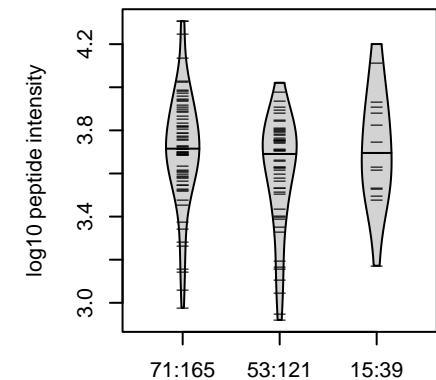
rs2908203
 $p = 8.7e-06$, $\beta = -0.356$, $N = 316$

QLSSGVSEIR pc2

rs2908203
 $p = 0.0028$, $\beta = -0.499$, $N = 98$

GPSWDPFRDWYPHSR pc3

rs2908203
 $p = 0.039$, $\beta = -0.398$, $N = 56$

LATQSNEITIPVTFESR pc2

rs2908203
 $p = 0.1$, $\beta = -0.2$, $N = 139$

Locus: 69 (Sort: 83)

Status: Replicated

80% power: Yes

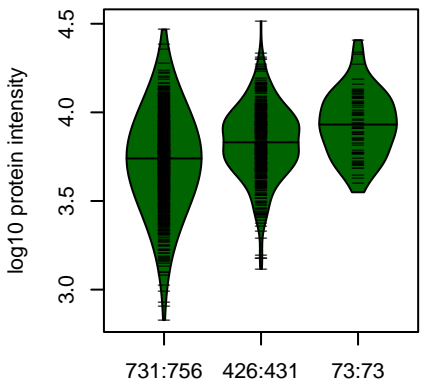
SNP: 7:75924218:G:T

rsID: rs2908203

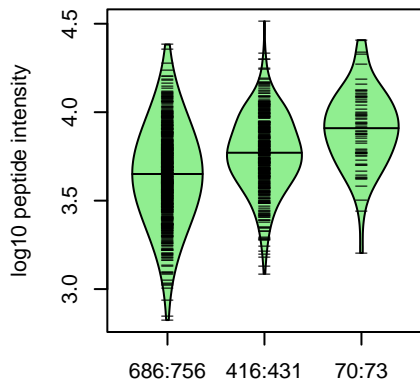
UniProtID: P04792

HGNC gene: HSPB1

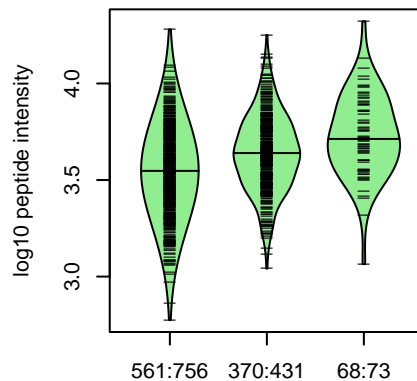
Type: Cis-pQTL

ERAP1 [cis]

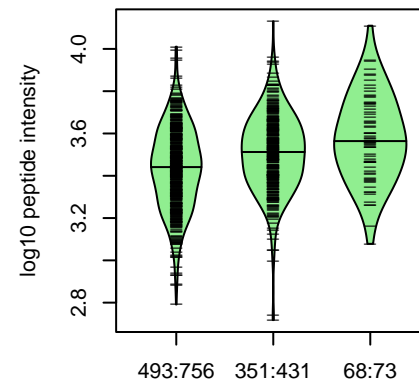
5:96134113:A:G_A
 $p = 2.6e-22$, $\beta = 0.446$, $N = 1230$

GFPLITIVR pc2

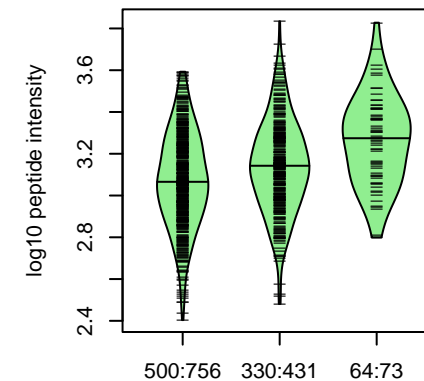
5:96134113:A:G_A
 $p = 2.9e-26$, $\beta = 0.496$, $N = 1172$

TDVLILPEEVEWIK pc2

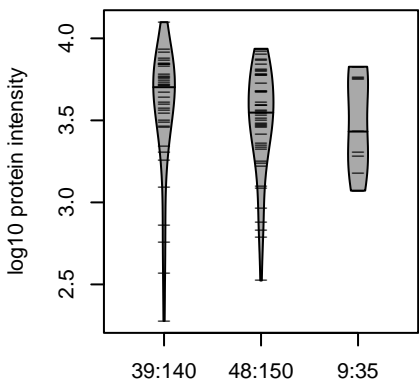
5:96134113:A:G_A
 $p = 4.1e-17$, $\beta = 0.419$, $N = 999$

LQWLLDESFK pc2

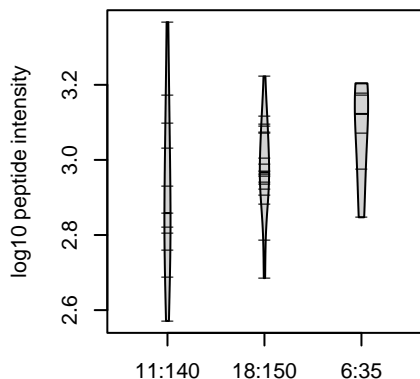
5:96134113:A:G_A
 $p = 8.5e-12$, $\beta = 0.352$, $N = 912$

ASLINNAFQLVSIK pc2

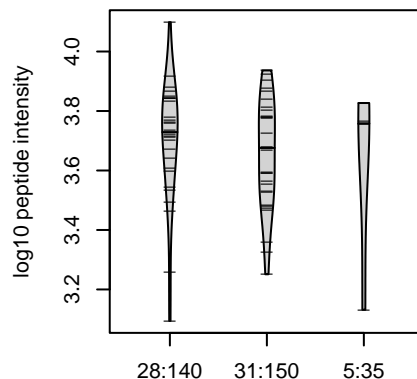
5:96134113:A:G_A
 $p = 2.3e-11$, $\beta = 0.35$, $N = 894$

Q9NZ08 NP5

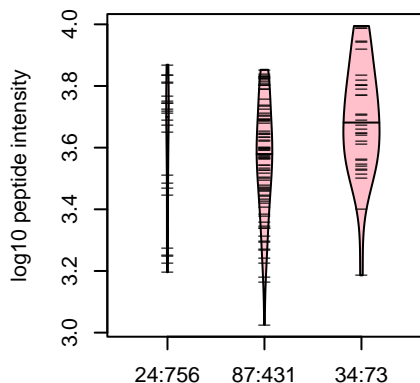
rs26491
 $p = 0.38$, $\beta = -0.136$, $N = 96$

GFPLITIVR pc2

rs26491
 $p = 0.15$, $\beta = 0.331$, $N = 35$

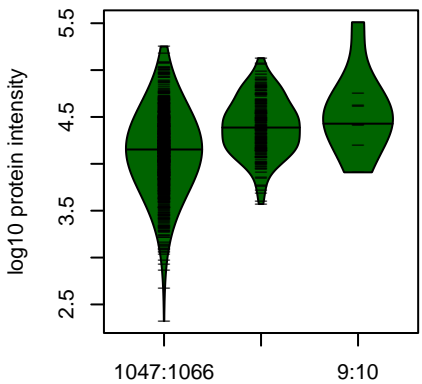
EYLSADAFK pc2

rs26491
 $p = 0.62$, $\beta = -0.0961$, $N = 64$

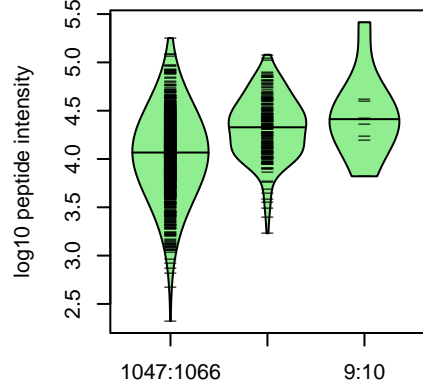
**LSEELQVLEHPR pc3
rs26653 REF**

5:96134113:A:G_A
 $p = 3.5e-30$, $\text{model} = \text{REC}$, $N = 145$

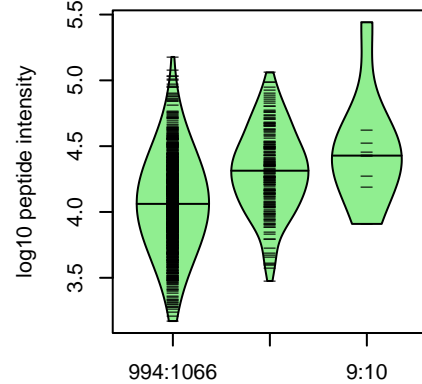
Locus: 70 (Sort: 84)
 Status: Not replicated
 80% power: No
 SNP: 5:96134113:A:G
 rsID: rs26491
 UniProtID: Q9NZ08
 HGNC gene: ERAP1
 Type: Cis-pQTL

SFTPD [cis]

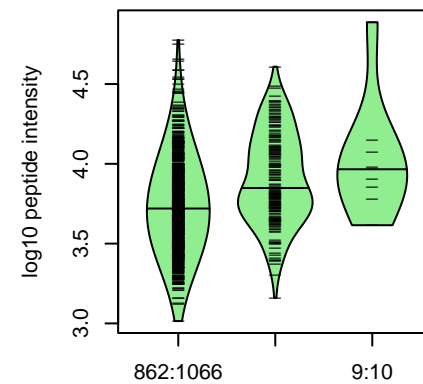
10:81707371:G:A_A
 p = 3e-22, beta = 0.693, N = 1240

SAAENAALQQLVVAK pc2

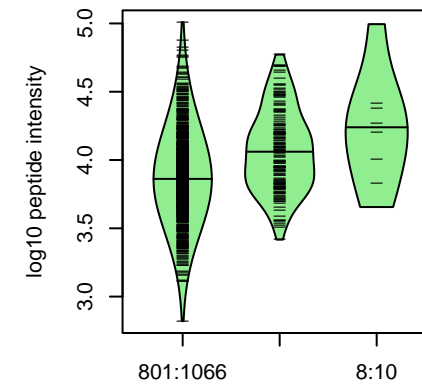
10:81707371:G:A_A
 p = 5.5e-23, beta = 0.705, N = 1240

NEAFLSMTDSK pc2

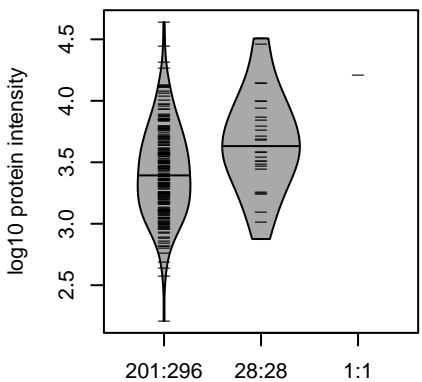
10:81707371:G:A_A
 p = 1.3e-20, beta = 0.67, N = 1186

QGNIGPQGK pc2

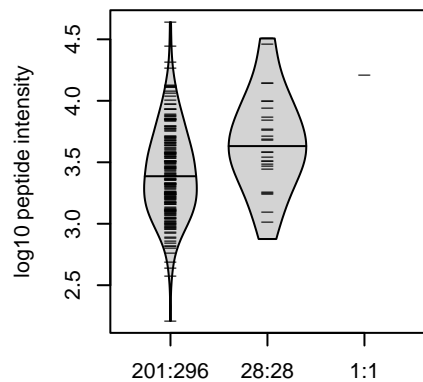
10:81707371:G:A_A
 p = 8.7e-13, beta = 0.529, N = 1048

KVELFPNGQSVGEK pc3

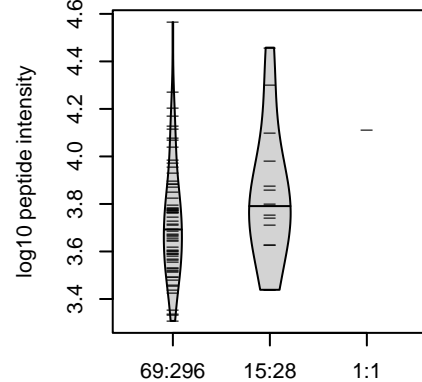
10:81707371:G:A_A
 p = 1.7e-12, beta = 0.543, N = 973

P35247 NP5

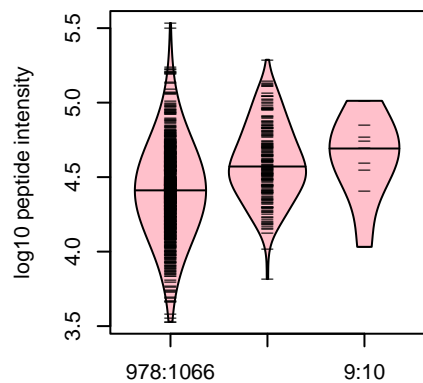
rs7074156
 p = 9e-04, beta = 0.616, N = 230

SAAENAALQQLVVAK pc2

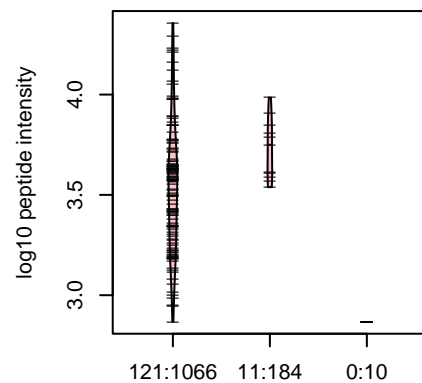
rs7074156
 p = 0.00056, beta = 0.633, N = 230

NEAFLSMTDSK pc2

rs7074156
 p = 0.08, beta = 0.426, N = 85

**PFTEAQLLCTQAGGQLASPR pc3
rs3088308 REF**

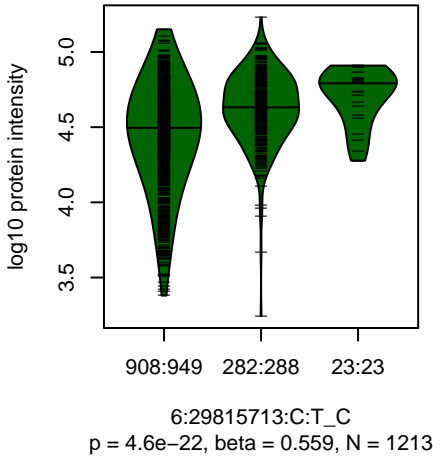
10:81707371:G:A_A
 p = 5.3e-05, model = REC, N = 1170

**PFTEAQLLCTQAGGQLATPR pc3
rs3088308 ALT**

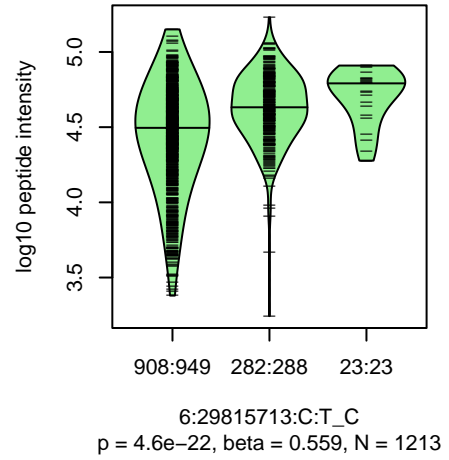
10:81707371:G:A_A
 p = 0.015, model = REC, N = 132

Locus: 71 (Sort: 85)
 Status: Not replicated
 80% power: No
 SNP: 10:81707371:G:A
 rsID: rs7074156
 UniProtID: P35247
 HGNC gene: SFTPD
 Type: Cis-pQTL

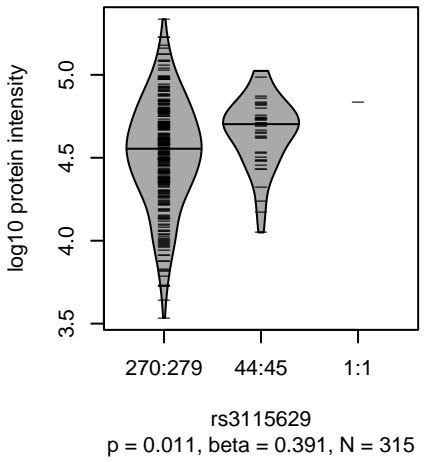
HLA-G [cis]



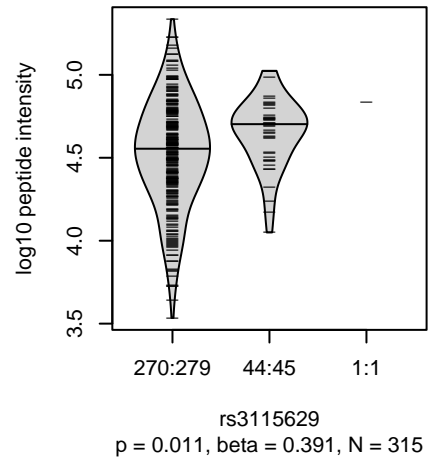
DYLALNEDLR pc2



Q5RJ85 NP1

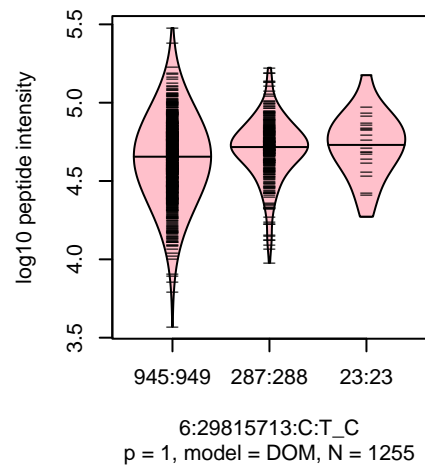


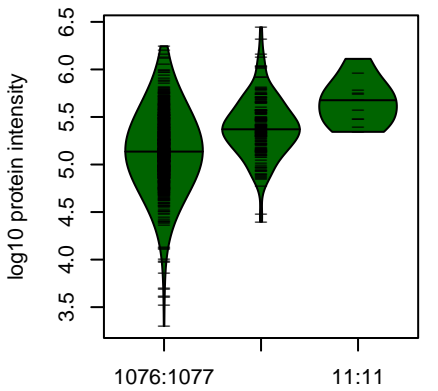
DYLALNEDLR pc2



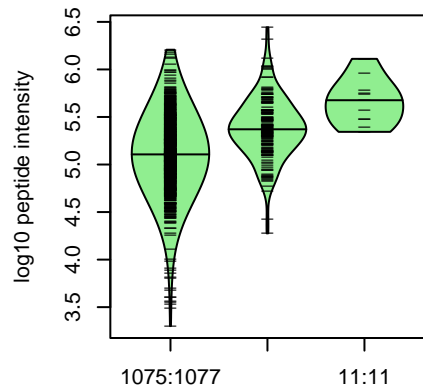
Locus: 72 (Sort: 86)
Status: Not replicated
80% power: Yes
SNP: 6:29815713:C:T
rsID: rs3115629
UniProtID: Q5RJ85
HGNC gene: HLA-G
Type: Cis-pQTL

WAAVVPSGEEQR pc2 rs707908;rs1736924 ALT

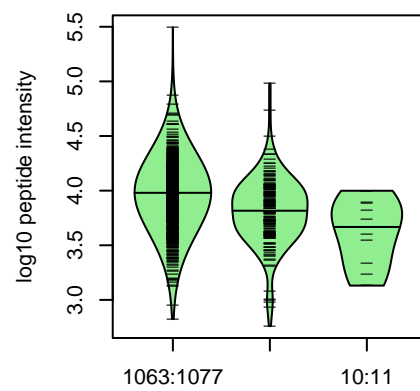


HP [cis]

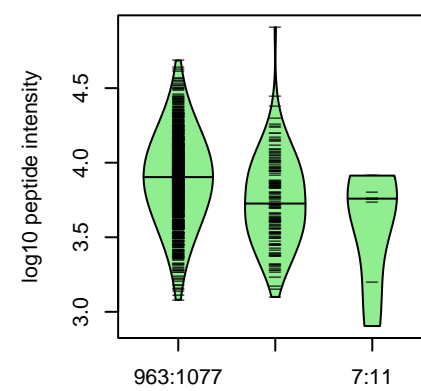
16:72260991:A:G_G
 $p = 7.4e-22$, $\beta = 0.689$, $N = 1259$

VTSIQDWVQK pc2

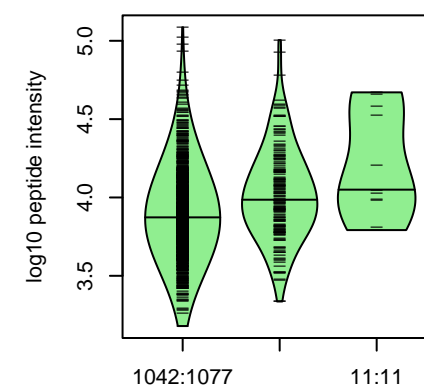
16:72260991:A:G_G
 $p = 6.6e-24$, $\beta = 0.722$, $N = 1258$

TEGDGVYTLNNEK pc2

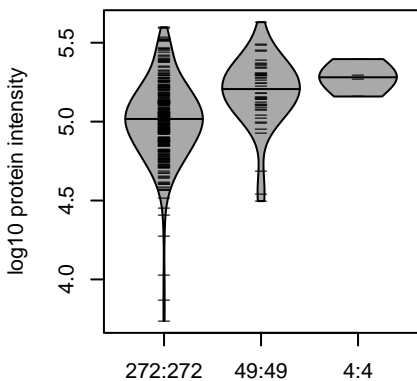
16:72260991:A:G_G
 $p = 6.4e-12$, $\beta = -0.507$, $N = 1240$

LRTEGDGVYTLNNEK pc3

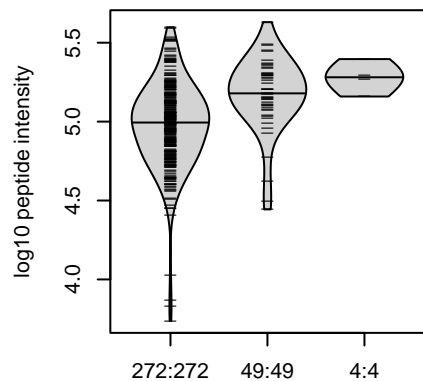
16:72260991:A:G_G
 $p = 4e-09$, $\beta = -0.487$, $N = 1104$

TEGDGVYTLNDKK pc3

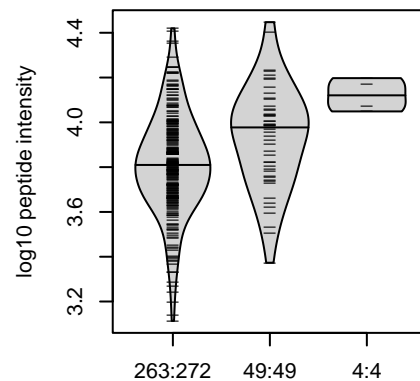
16:72260991:A:G_G
 $p = 5.7e-06$, $\beta = 0.334$, $N = 1220$

P00738 NP4

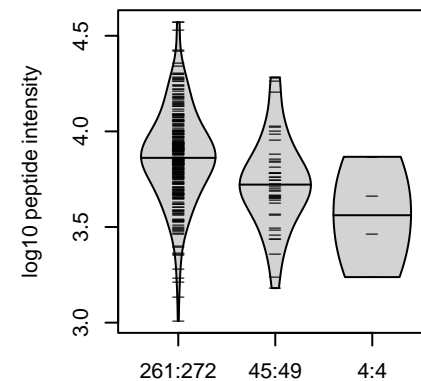
rs2189680
 $p = 1e-05$, $\beta = 0.587$, $N = 325$

VTSIQDWVQK pc2

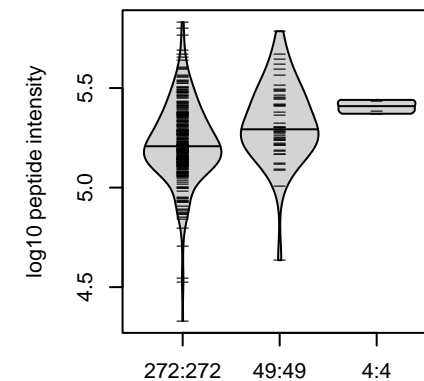
rs2189680
 $p = 8.8e-06$, $\beta = 0.584$, $N = 325$

LRTEGDGVYTLNDK pc2

rs2189680
 $p = 0.00023$, $\beta = 0.487$, $N = 316$

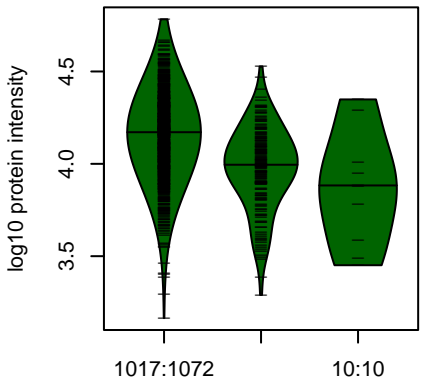
TEGDGVYTLNNEK pc2

rs2189680
 $p = 0.00029$, $\beta = -0.491$, $N = 310$

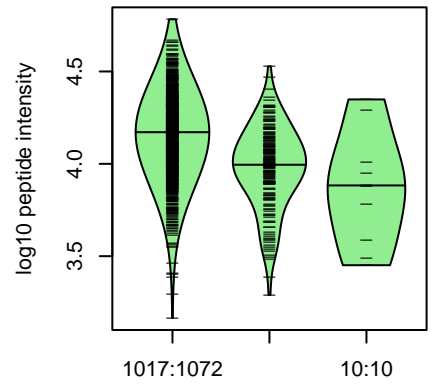
LPECEAVCGK pc2

rs2189680
 $p = 0.00056$, $\beta = 0.455$, $N = 325$

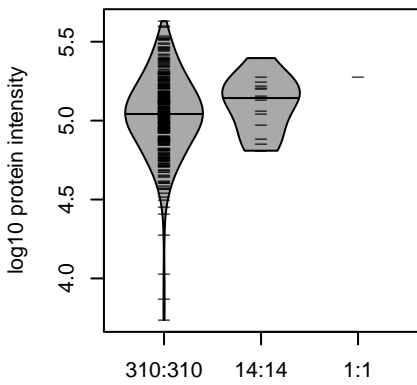
Locus: 73 (Sort: 87)
 Status: Replicated
 80% power: Yes
 SNP: 16:72260991:A:G
 rsID: rs2189680
 UniProtID: P00738
 HGNC gene: HP
 Type: Cis-pQTL

CSTF3 [trans]

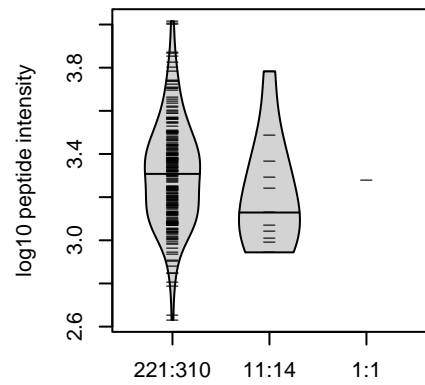
20:36997655:C:T_T
 p = 1.1e-21, beta = -0.7, N = 1195

LAALPDPVVPVSIIVLKLK pc3

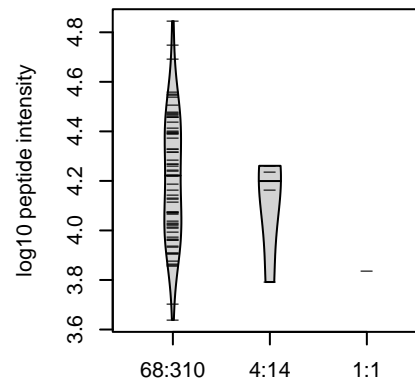
20:36997655:C:T_T
 p = 1.1e-21, beta = -0.7, N = 1195

Q12996 NP4

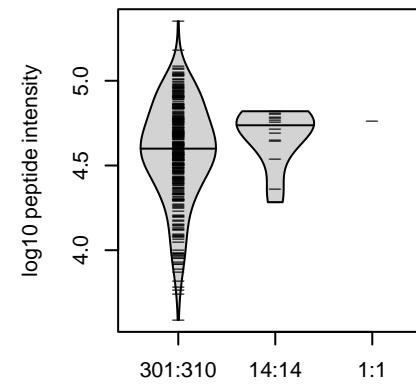
rs2232613
 p = 0.96, beta = 0.0111, N = 325

LRTEGDGVYTLNNEK pc2

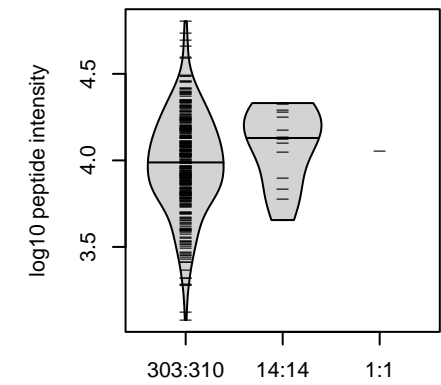
rs2232613
 p = 0.091, beta = -0.439, N = 233

VGIVSGWGR pc2

rs2232613
 p = 0.098, beta = -0.579, N = 73

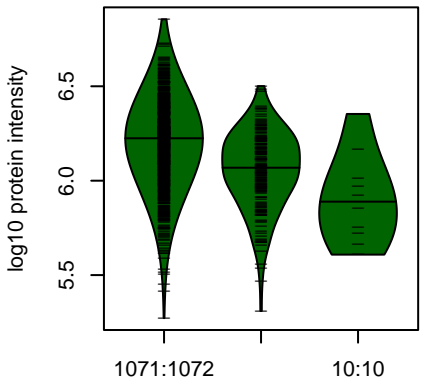
VMPICLPSK pc2

rs2232613
 p = 0.28, beta = 0.257, N = 316

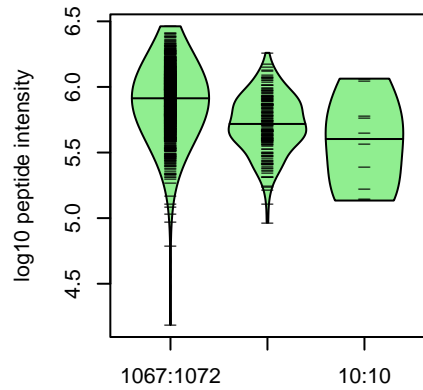
DIAPTLTLYVGK pc2

rs2232613
 p = 0.29, beta = 0.254, N = 318

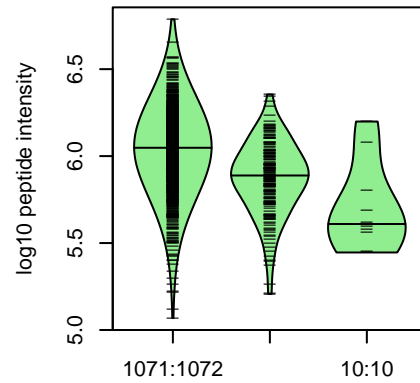
Locus: 74 (Sort: 88)
 Status: Not replicated
 80% power: Yes
 SNP: 20:36997655:C:T
 rsID: rs2232613
 UniProtID: Q12996
 HGNC gene: CSTF3
 Type: Trans-pQTL

LBP [cis]

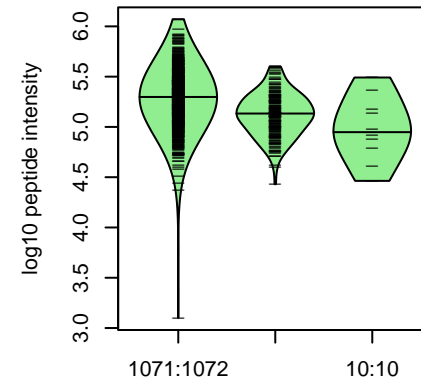
20:36997655:C:T_T
 $p = 8.3e-20$, $\beta = -0.653$, $N = 1259$

SPVTLAAVMSLPPEHMK pc3

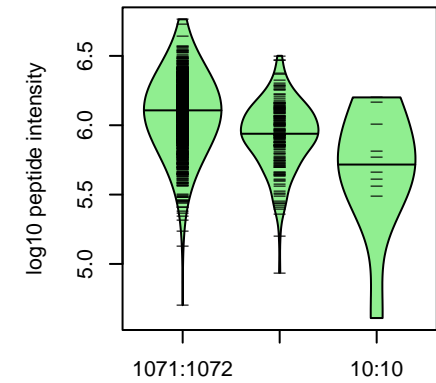
20:36997655:C:T_T
 $p = 3.5e-23$, $\beta = -0.709$, $N = 1255$

ICEMIQK pc2

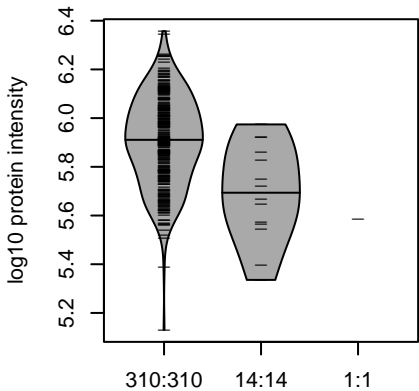
20:36997655:C:T_T
 $p = 1.7e-22$, $\beta = -0.698$, $N = 1259$

VQLYDLGLQIHK pc3

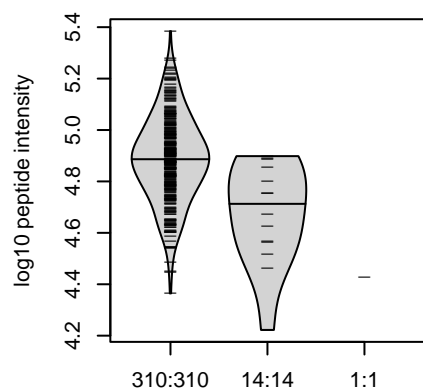
20:36997655:C:T_T
 $p = 4.5e-19$, $\beta = -0.64$, $N = 1259$

DFLFLGANVQYMR pc2

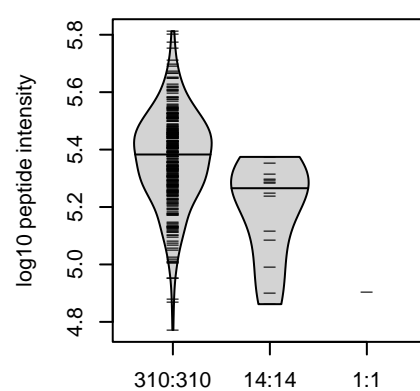
20:36997655:C:T_T
 $p = 5.6e-19$, $\beta = -0.638$, $N = 1259$

P18428 NP4

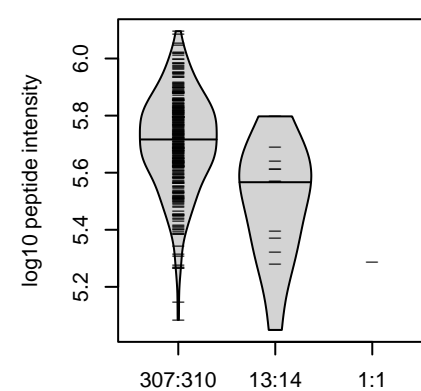
rs2232613
 $p = 1.7e-05$, $\beta = -1.02$, $N = 325$

VQLYDLGLQIHK pc3

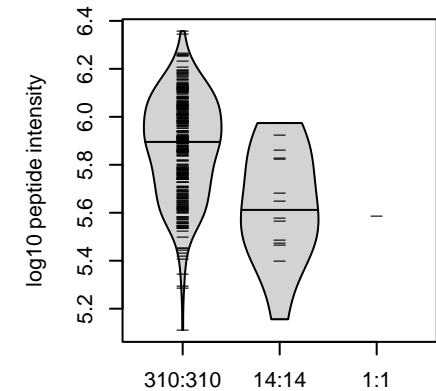
rs2232613
 $p = 4.4e-06$, $\beta = -1.08$, $N = 325$

DFLFLGANVQYMR pc2

rs2232613
 $p = 2.9e-05$, $\beta = -0.983$, $N = 325$

GLQYAAQEGLLALQSELLR pc3

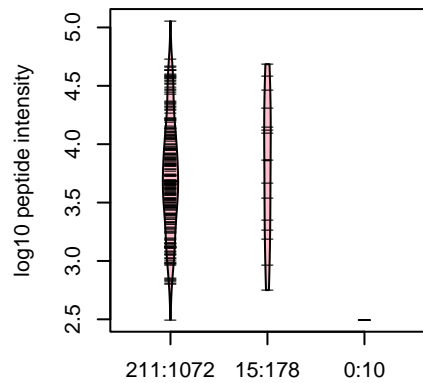
rs2232613
 $p = 9.3e-05$, $\beta = -0.945$, $N = 321$

ITLPDFTGDLR pc2

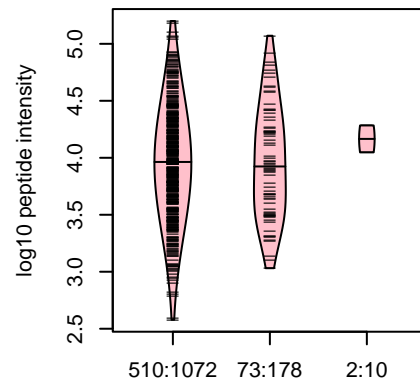
rs2232613
 $p = 0.00019$, $\beta = -0.88$, $N = 325$

VGLFNAELLEALLNYYILNTLYPK pc **VGLFNAELLEALLNYYILNTFYPK pc**
rs2232618 ALT **rs2232618 REF**

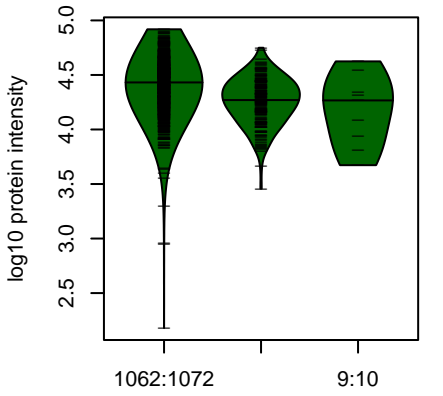
Locus: 74 (Sort: 89)
 Status: Replicated
 80% power: Yes
 SNP: 20:36997655:C:T
 rsID: rs2232613
 UniProtID: P18428
 HGNC gene: LBP
 Type: Cis-pQTL



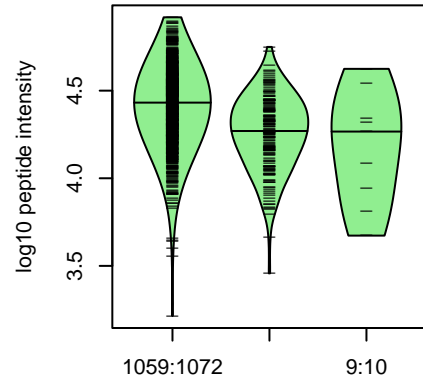
20:36997655:C:T_T
 $p = 5e-05$, $\text{model} = \text{REC}$, $N = 226$



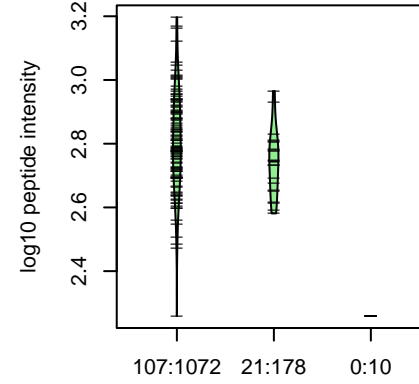
20:36997655:C:T_T
 $p = 0.057$, $\text{model} = \text{REC}$, $N = 585$

EMC1 [trans]

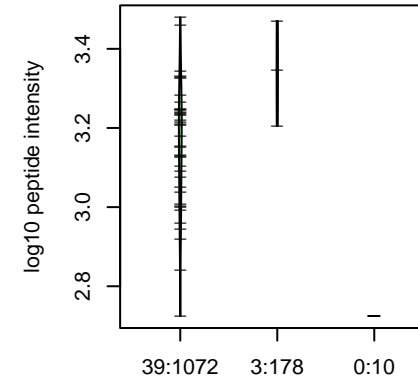
20:36997655:C:T_T
 $p = 2.4e-18$, $\beta = -0.633$, $N = 1249$

PILQSLLLPVMDQDYAK pc3

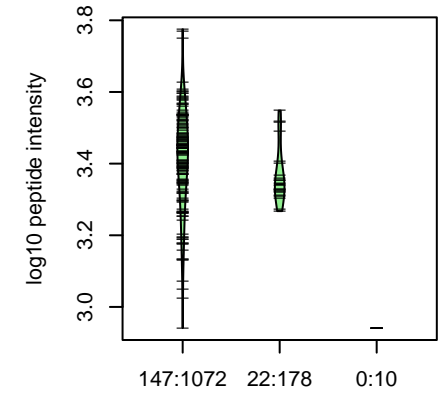
20:36997655:C:T_T
 $p = 2.1e-19$, $\beta = -0.652$, $N = 1246$

TFIGIFLIDGVTGR pc2

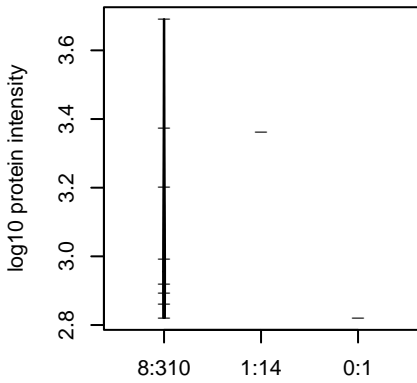
20:36997655:C:T_T
 $p = 0.021$, $\beta = -0.532$, $N = 128$

FASLEFSPGSK pc2

20:36997655:C:T_T
 $p = 0.042$, $\beta = 1.13$, $N = 42$

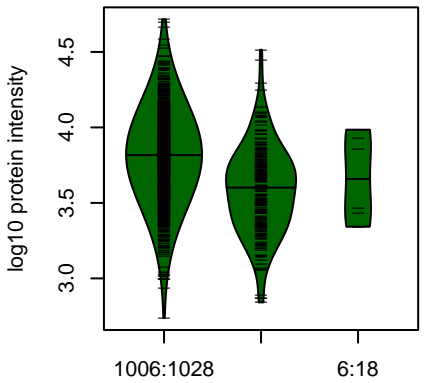
TTLALHHLSSGHLK pc3

20:36997655:C:T_T
 $p = 0.097$, $\beta = -0.371$, $N = 169$

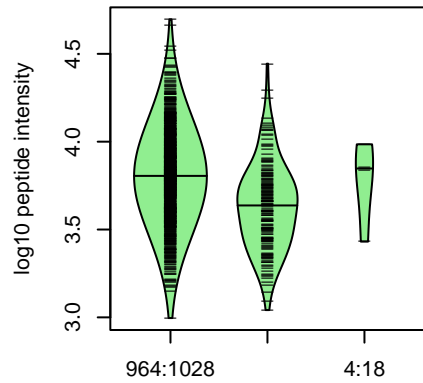
Q8N766 NP4

rs2232613
 $p = 0.77$, $\beta = 0.285$, $N = 9$

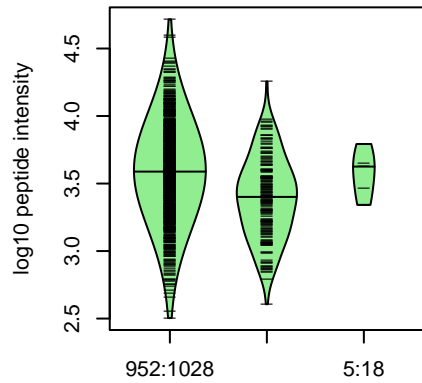
Locus: 74 (Sort: 90)
 Status: Not replicated
 80% power: No
 SNP: 20:36997655:C:T
 rsID: rs2232613
 UniProtID: Q8N766
 HGNC gene: EMC1
 Type: Trans-pQTL

VMO1 [cis]

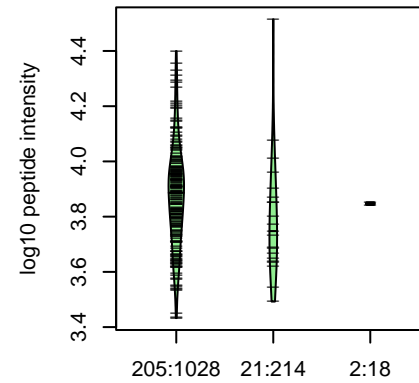
17:4689313:G:C_C
 $p = 1.6e-21$, $\beta = -0.69$, $N = 1205$

GLGDDTALNDAR pc2

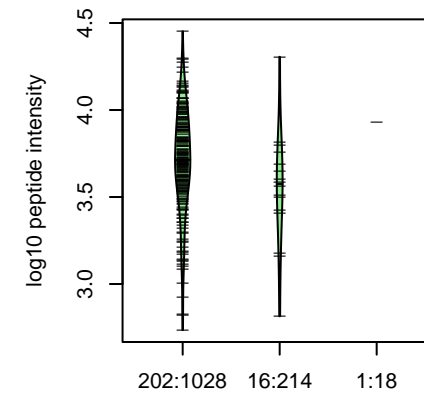
17:4689313:G:C_C
 $p = 4.6e-14$, $\beta = -0.595$, $N = 1134$

VEAPTTLGDNTAANNVR pc2

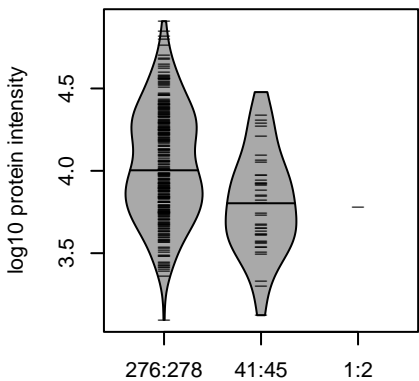
17:4689313:G:C_C
 $p = 2.1e-10$, $\beta = -0.498$, $N = 1123$

GACGLQTK pc2

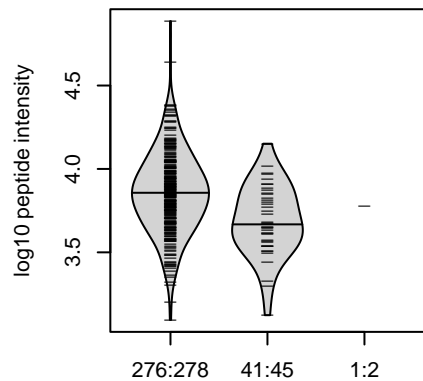
17:4689313:G:C_C
 $p = 0.0064$, $\beta = -0.52$, $N = 228$

VEPPQGIPGDDTALNGIR pc2

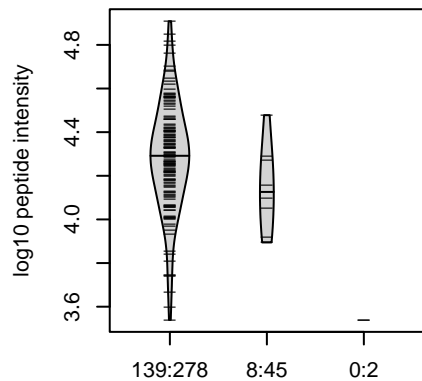
17:4689313:G:C_C
 $p = 0.14$, $\beta = -0.334$, $N = 219$

Q7Z5L0 NP2

rs2279961
 $p = 7.8e-06$, $\beta = -0.688$, $N = 318$

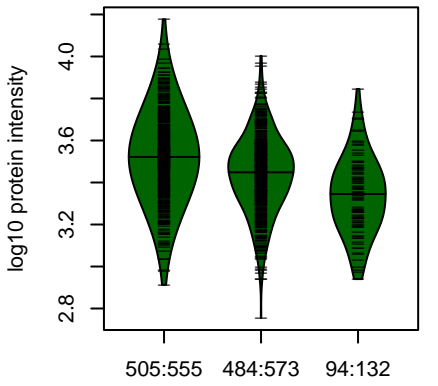
GLGDDTALNDAR pc2

rs2279961
 $p = 1.1e-05$, $\beta = -0.683$, $N = 318$

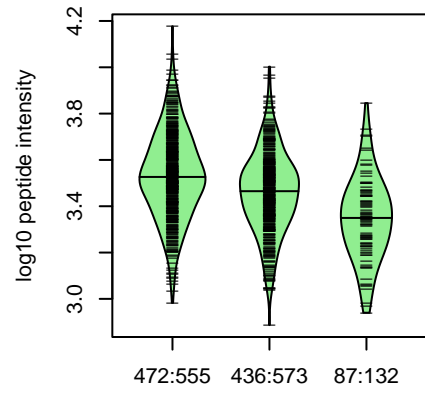
VEAPTTLGDNTAANNVR pc2

rs2279961
 $p = 0.095$, $\beta = -0.592$, $N = 147$

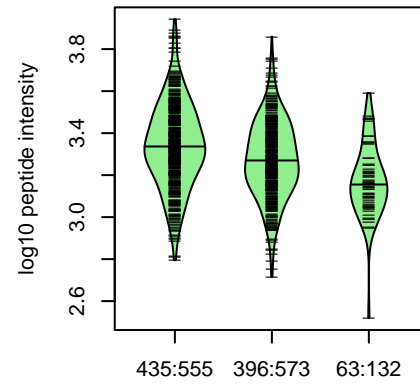
Locus: 75 (Sort: 91)
 Status: Replicated
 80% power: Yes
 SNP: 17:4689313:G:C
 rsID: rs2279961
 UniProtID: Q7Z5L0
 HGNC gene: VMO1
 Type: Cis-pQTL

S100B [cis]

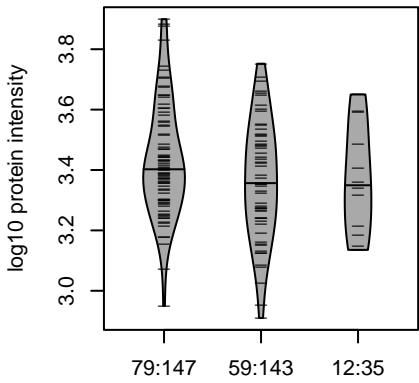
21:48025097:A:G_A
 $p = 2.3e-21$, $\beta = -0.44$, $N = 1083$

ELINNELSHFLEEIK pc3

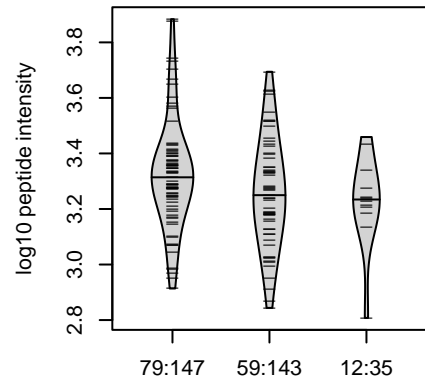
21:48025097:A:G_A
 $p = 3.3e-20$, $\beta = -0.443$, $N = 995$

AMVALIDVFHQYSGR pc3

21:48025097:A:G_A
 $p = 6.7e-12$, $\beta = -0.364$, $N = 894$

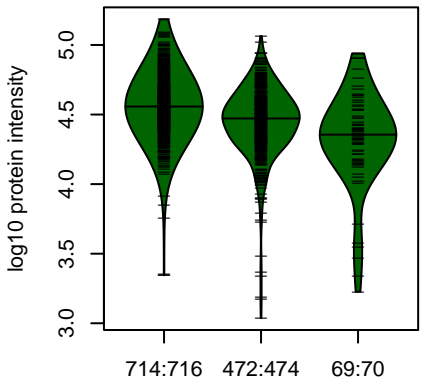
P04271 NP2

rs8128872
 $p = 0.025$, $\beta = -0.276$, $N = 150$

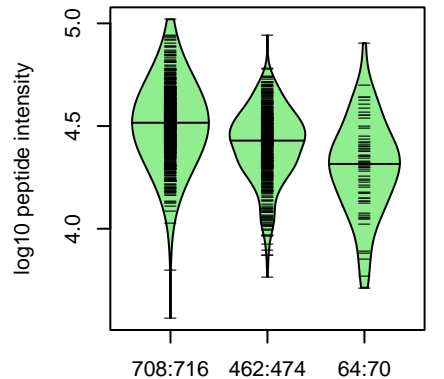
AMVALIDVFHQYSGR pc3

rs8128872
 $p = 0.019$, $\beta = -0.29$, $N = 150$

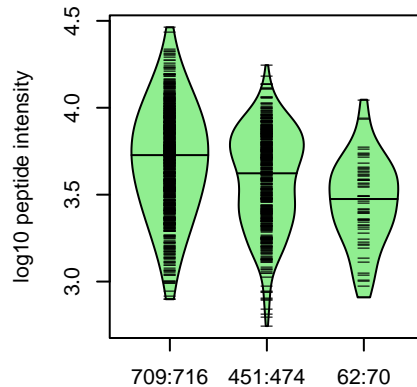
Locus: 76 (Sort: 92)
 Status: Not replicated
 80% power: No
 SNP: 21:48025097:A:G
 rsID: rs8128872
 UniProtID: P04271
 HGNC gene: S100B
 Type: Cis-pQTL

HLA-B [cis]

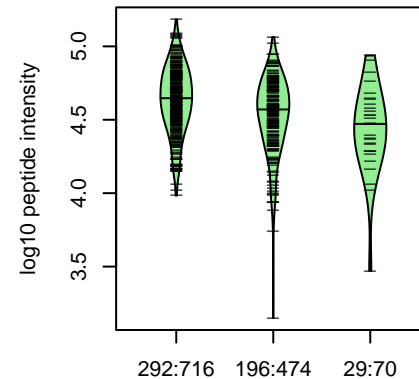
6:31107187:G:A_A
 $p = 3.4e-21$, $\beta = -0.435$, $N = 1255$

FDSAASPR pc2

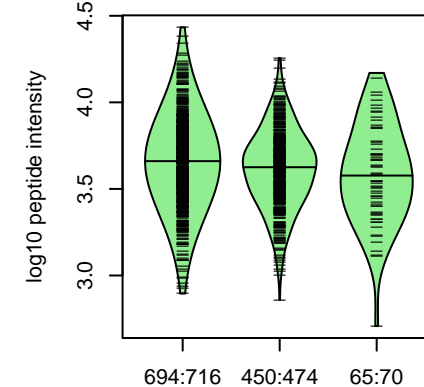
6:31107187:G:A_A
 $p = 3.1e-30$, $\beta = -0.531$, $N = 1234$

SWTAADTAAQITQR pc2

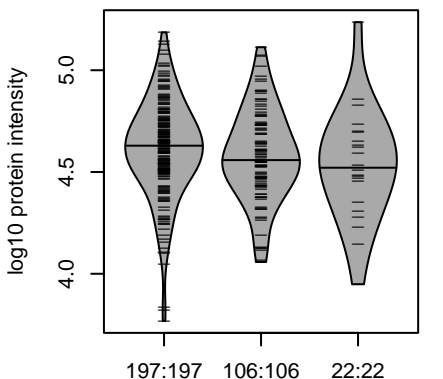
6:31107187:G:A_A
 $p = 7.1e-13$, $\beta = -0.342$, $N = 1222$

DYIALNEDLR pc2

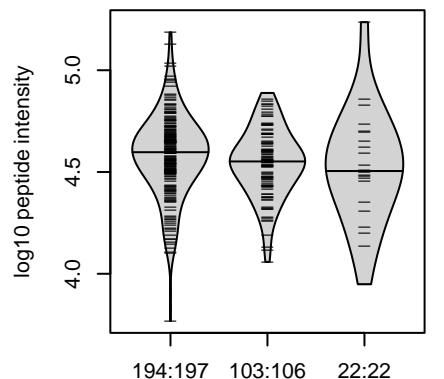
6:31107187:G:A_A
 $p = 1.3e-05$, $\beta = -0.314$, $N = 517$

DGEDQTQDTELVETRPAGDR pc3

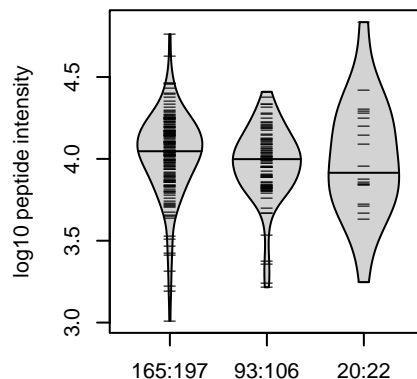
6:31107187:G:A_A
 $p = 0.00093$, $\beta = -0.158$, $N = 1209$

P01889 NP2

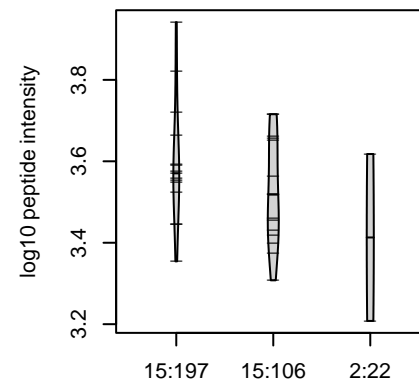
rs1265093
 $p = 0.055$, $\beta = -0.169$, $N = 325$

FDSAASPR pc2

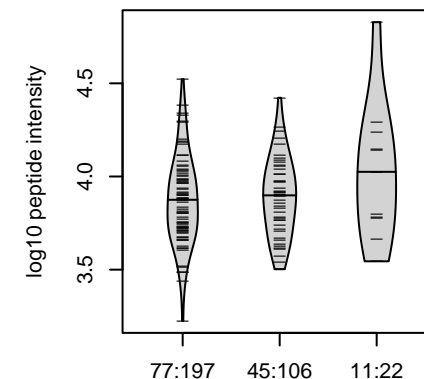
rs1265093
 $p = 0.032$, $\beta = -0.19$, $N = 319$

DGEDQTQDTELVETRPAGDR pc3

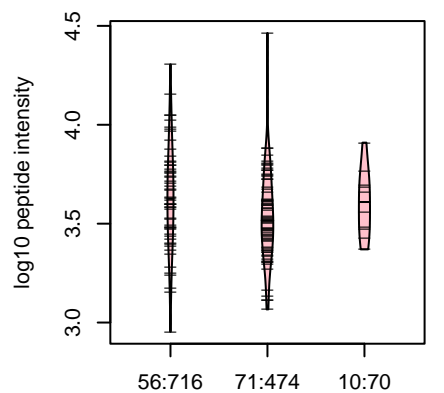
rs1265093
 $p = 0.086$, $\beta = -0.162$, $N = 278$

SWTAADTAAQITQR pc3

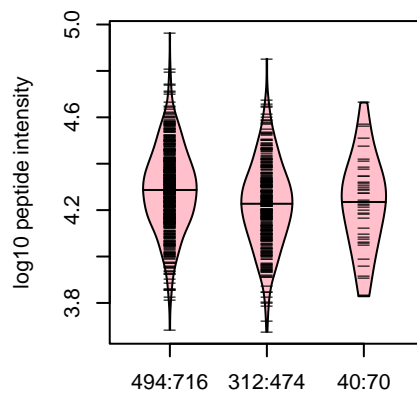
rs1265093
 $p = 0.29$, $\beta = -0.288$, $N = 32$

THVTHHPISDHEATLR pc4

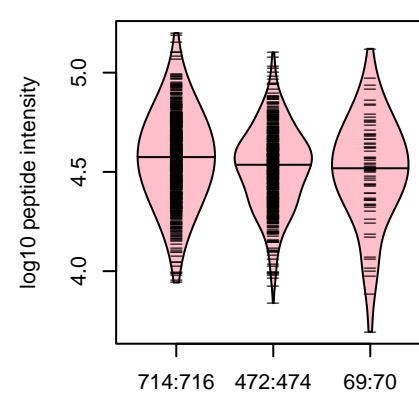
rs1265093
 $p = 0.38$, $\beta = 0.116$, $N = 133$

**GEPRFISGVYDDTQFVR pc3
rs1050437 REF**

6:31107187:G:A_A
 $p = 7.9e-05$, $\text{model} = \text{REC}$, $N = 137$

**FISVGYVDDTQFVR pc2
rs1050437 REF**

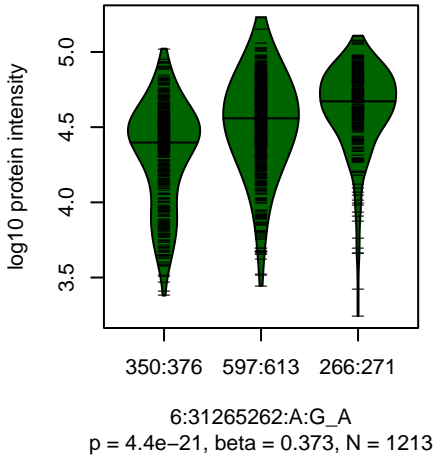
6:31107187:G:A_A
 $p = 0.088$, $\text{model} = \text{DOM}$, $N = 846$

**WAAVVVPSGEEQR pc2
rs707908;rs1736924 ALT**

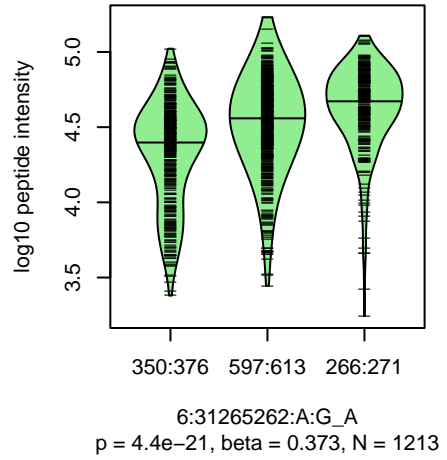
6:31107187:G:A_A
 $p = 0.25$, $\text{model} = \text{DOM}$, $N = 1255$

Locus: 77 (Sort: 93)
 Status: Not replicated
 80% power: Yes
 SNP: 6:31107187:G:A
 rsID: rs1265093
 UniProtID: P01889
 HGNC gene: HLA-B
 Type: Cis-pQTL

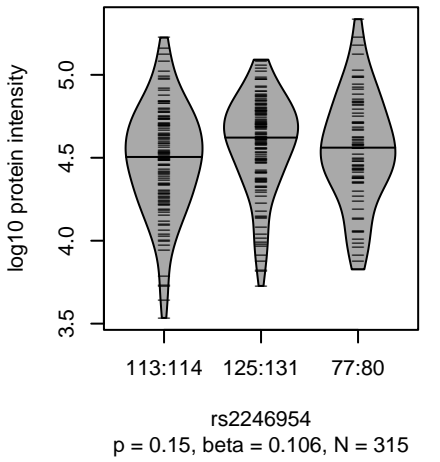
HLA-G [cis]



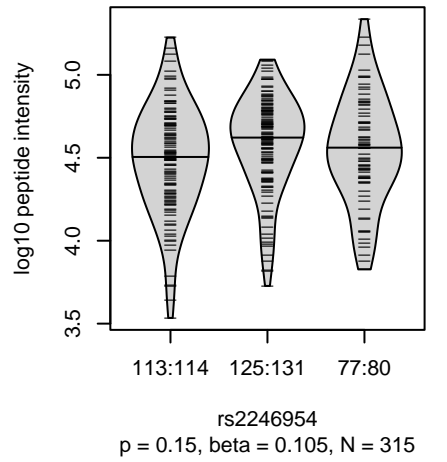
DYLALNEDLR pc2



Q5RJ85 NP1

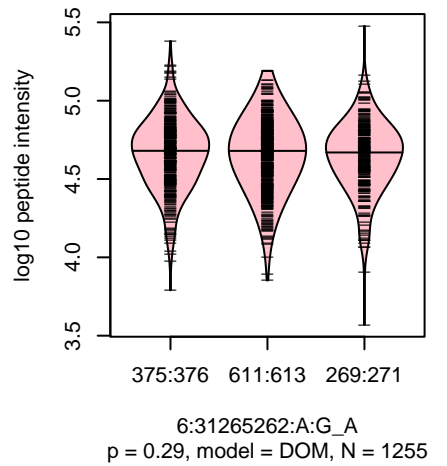


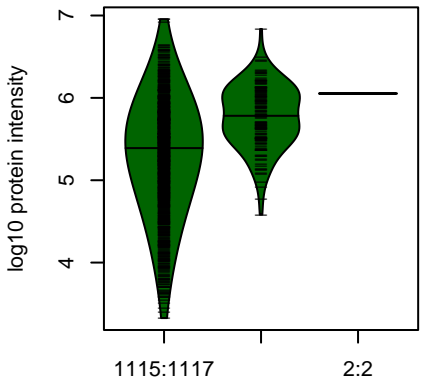
DYLALNEDLR pc2



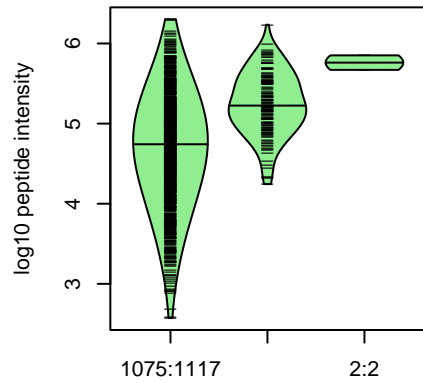
Locus: 78 (Sort: 94)
Status: Not replicated
80% power: Yes
SNP: 6:31265262:A:G
rsID: rs2246954
UniProtID: Q5RJ85
HGNC gene: HLA-G
Type: Cis-pQTL

WAAVVPSGEEQR pc2 rs707908;rs1736924 ALT

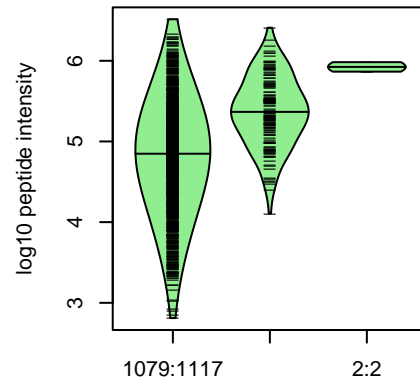


LPA [cis]

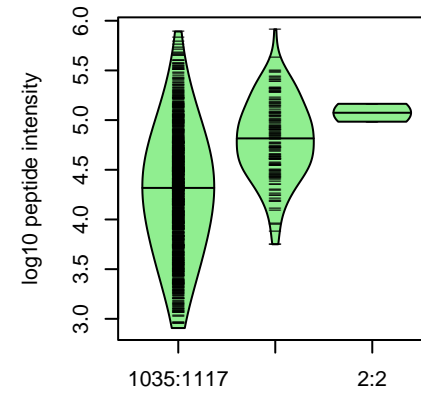
6:160997118:A:T_T
 p = 6e-21, beta = 0.799, N = 1258

LFLEPTQADIALLK pc2

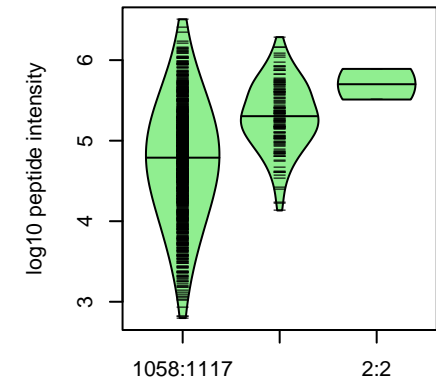
6:160997118:A:T_T
 p = 1.1e-26, beta = 0.906, N = 1218

TTEYYPNGGLTR pc2

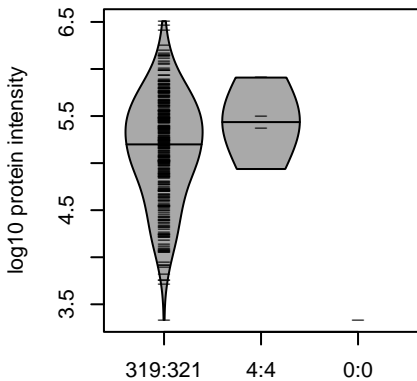
6:160997118:A:T_T
 p = 5.1e-26, beta = 0.895, N = 1222

HFCGGTLISPEWVLTAAHCLKK pc2

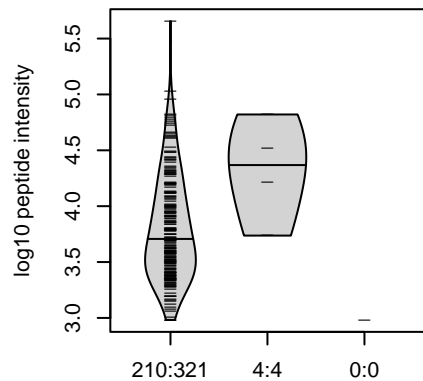
6:160997118:A:T_T
 p = 1.2e-25, beta = 0.892, N = 1177

VMPACLPSPDYMTAR pc2

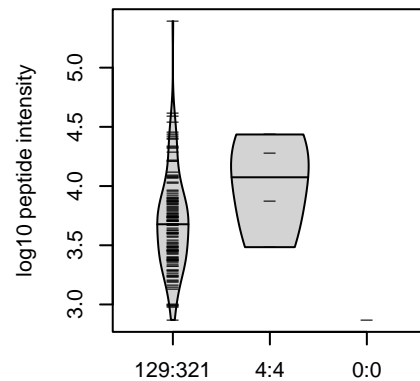
6:160997118:A:T_T
 p = 1.6e-24, beta = 0.868, N = 1201

P08519 NP4

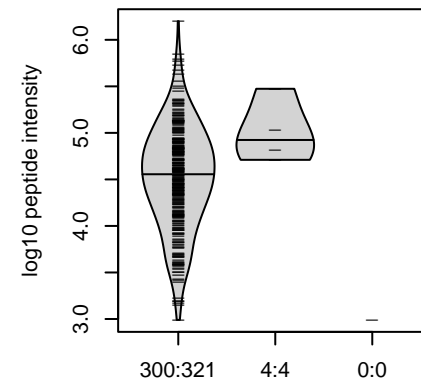
rs74617384
 p = 0.55, beta = 0.296, N = 323

GTLSTTITGR pc2

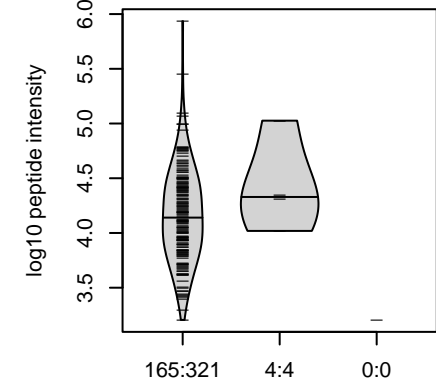
rs74617384
 p = 0.053, beta = 0.957, N = 214

ATTVTGTPCQEWAQEPHR pc3

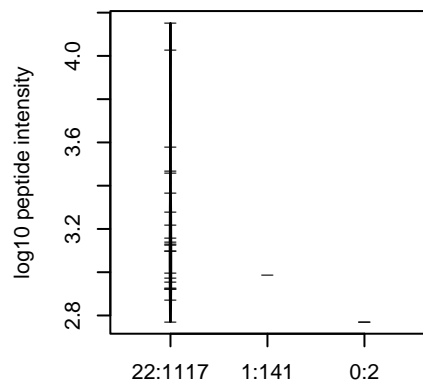
rs74617384
 p = 0.067, beta = 0.903, N = 133

TTEYYPNGGLTR pc2

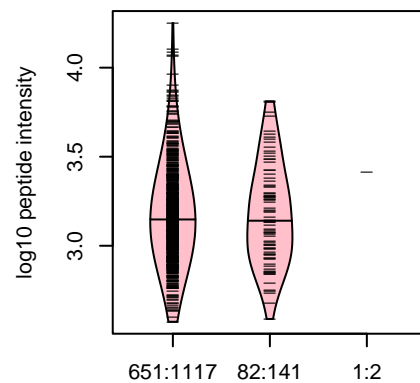
rs74617384
 p = 0.093, beta = 0.834, N = 304

GSFSTTVTGR pc2

rs74617384
 p = 0.13, beta = 0.756, N = 169

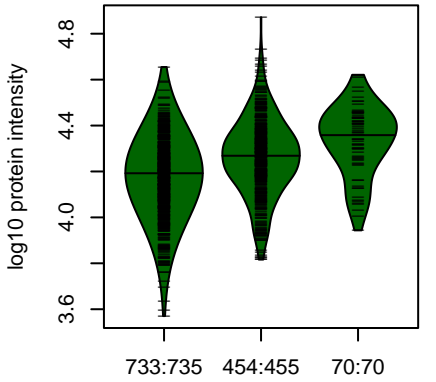
**NPDADTGPWCFTMDPSIR pc3
rs1801693 REF**

6:160997118:A:T_T
 p = 0.5, model = REC, N = 23

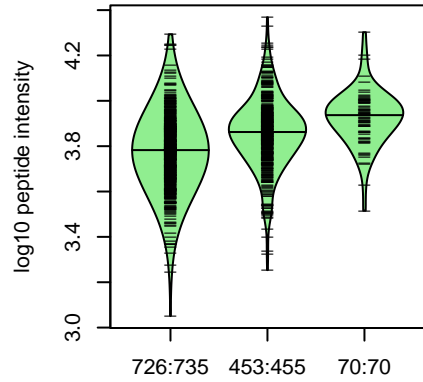
**YILQGVTSWGLGCAR pc2
rs3124784 REF**

6:160997118:A:T_T
 p = 1, model = DOM, N = 734

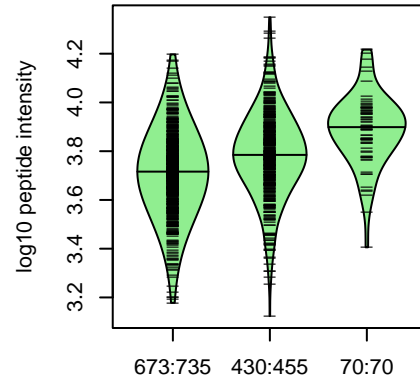
Locus: 79 (Sort: 95)
 Status: Not replicated
 80% power: Yes
 SNP: 6:160997118:A:T
 rsID: rs74617384
 UniProtID: P08519
 HGNC gene: LPA
 Type: Cis-pQTL

OAF [cis]

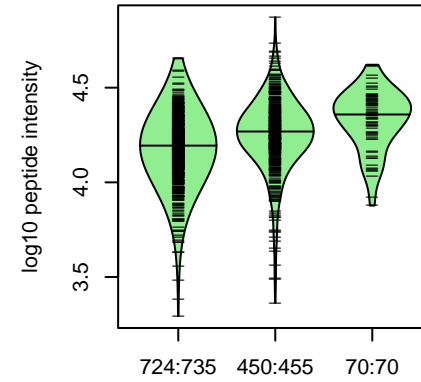
11:120101092:A:T_A
 $p = 6.9e-21$, $\beta = 0.431$, $N = 1257$

SYSFDFYVPQR pc2

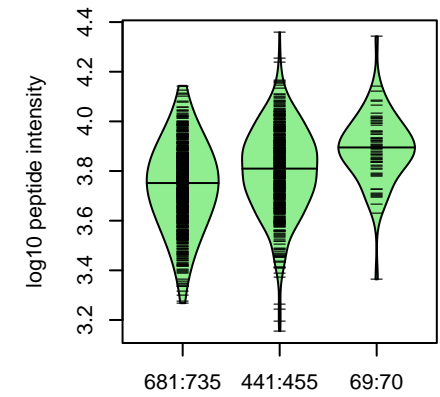
11:120101092:A:T_A
 $p = 1.5e-22$, $\beta = 0.449$, $N = 1249$

ASEQAELPR pc2

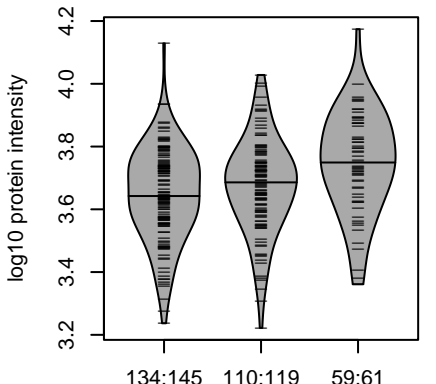
11:120101092:A:T_A
 $p = 2.3e-20$, $\beta = 0.435$, $N = 1173$

ALILGELEK pc2

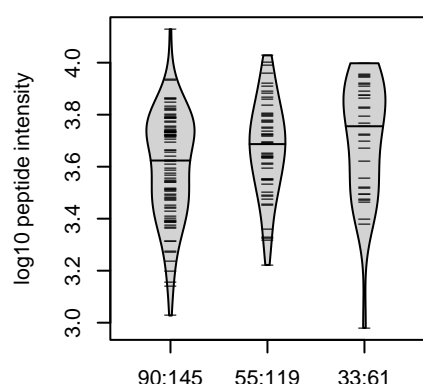
11:120101092:A:T_A
 $p = 3.2e-18$, $\beta = 0.403$, $N = 1244$

KPDGTLVSFTADFK pc3

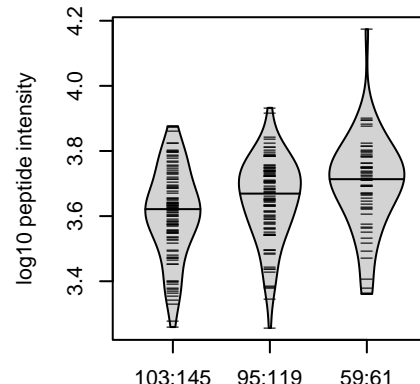
11:120101092:A:T_A
 $p = 1.1e-13$, $\beta = 0.35$, $N = 1191$

Q86UD1 NP5

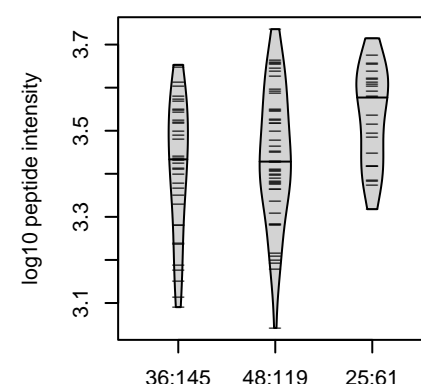
rs2845705
 $p = 0.00066$, $\beta = 0.254$, $N = 303$

ALILGELEK pc2

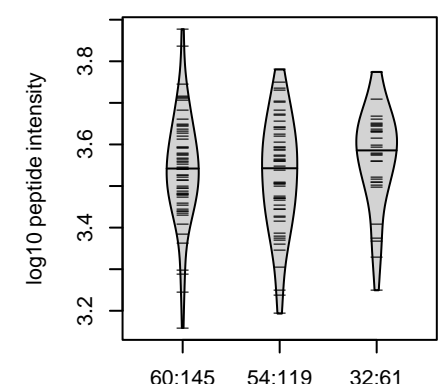
rs2845705
 $p = 0.011$, $\beta = 0.242$, $N = 178$

SYSFDFYVPQR pc2

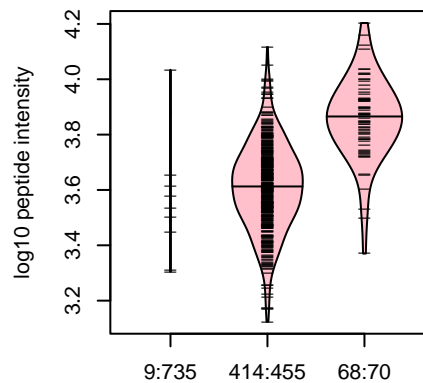
rs2845705
 $p = 0.012$, $\beta = 0.198$, $N = 257$

ASEQAELPR pc2

rs2845705
 $p = 0.024$, $\beta = 0.28$, $N = 109$

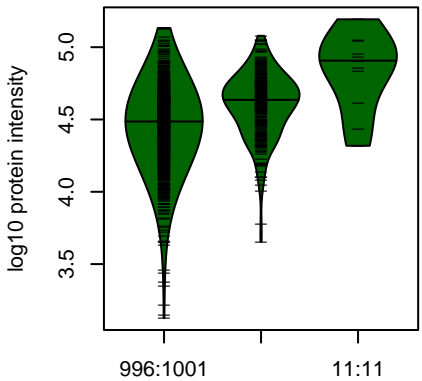
KPDGTLVSFTADFK pc3

rs2845705
 $p = 0.61$, $\beta = 0.053$, $N = 146$

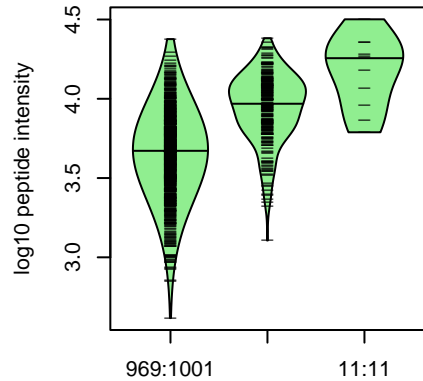
**YGLSLAWYPCMLK pc2
rs2508490 REF**

11:120101092:A:T_A
 $p = 2.5e-281$, $\text{model} = \text{REC}$, $N = 491$

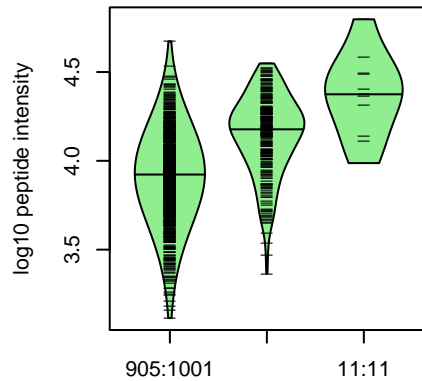
Locus: 80 (Sort: 96)
 Status: Not replicated
 80% power: Yes
 SNP: 11:120101092:A:T
 rsID: rs2845705
 UniProtID: Q86UD1
 HGNC gene: OAF
 Type: Cis-pQTL

CTSH [cis]

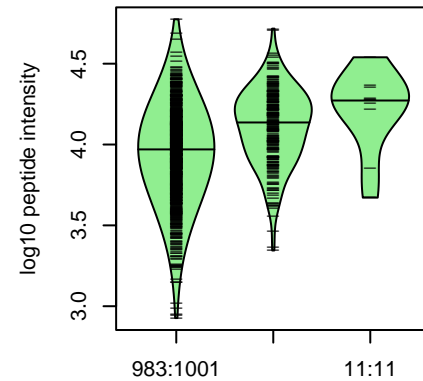
15:79229232:A:G_G
 $p = 8.3e-21$, $\beta = 0.6$, $N = 1253$

MALNQFSDMSFAEIK pc2

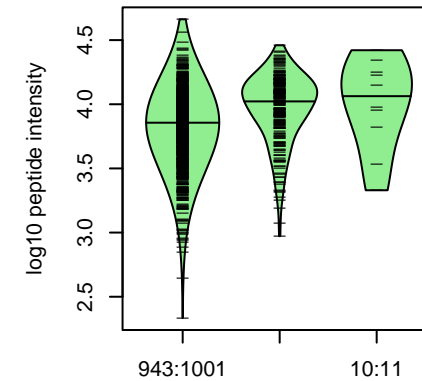
15:79229232:A:G_G
 $p = 1.7e-63$, $\beta = 1.04$, $N = 1226$

LQTFASNWR pc2

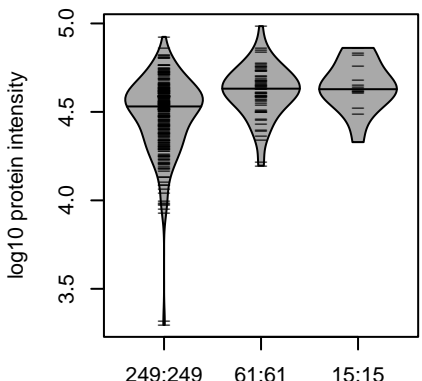
15:79229232:A:G_G
 $p = 1.6e-47$, $\beta = 0.92$, $N = 1156$

TGIYSSTSCHK pc2

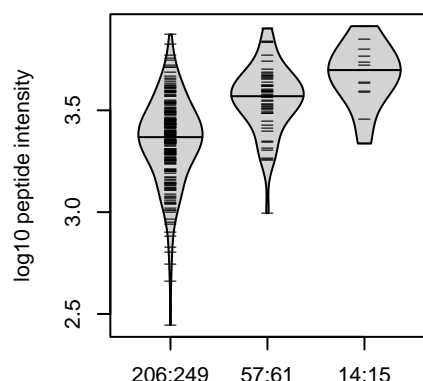
15:79229232:A:G_G
 $p = 3.8e-21$, $\beta = 0.606$, $N = 1240$

NQGACGSCWTFSTTGALESAIAIATGK

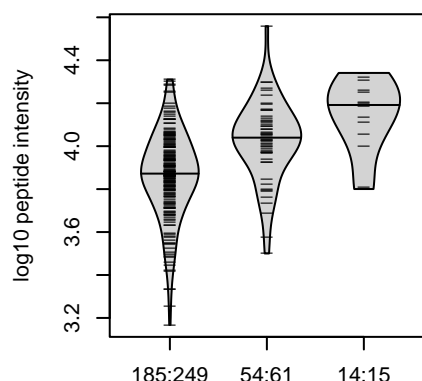
15:79229232:A:G_G
 $p = 2.7e-15$, $\beta = 0.52$, $N = 1193$

A0A087X0D5 NP3

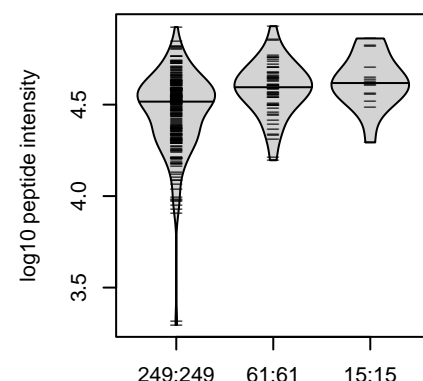
rs111495139
 $p = 2.3e-06$, $\beta = 0.464$, $N = 325$

MALNQFSDMSFAEIK pc2

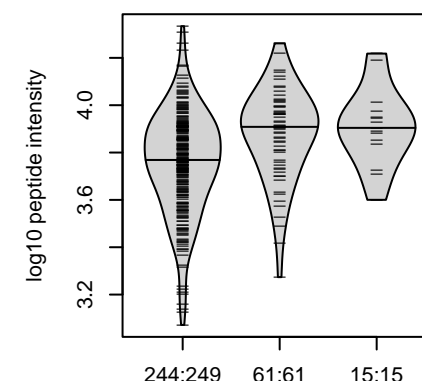
rs111495139
 $p = 7.9e-16$, $\beta = 0.805$, $N = 277$

LQTFASNWR pc2

rs111495139
 $p = 1.8e-11$, $\beta = 0.694$, $N = 253$

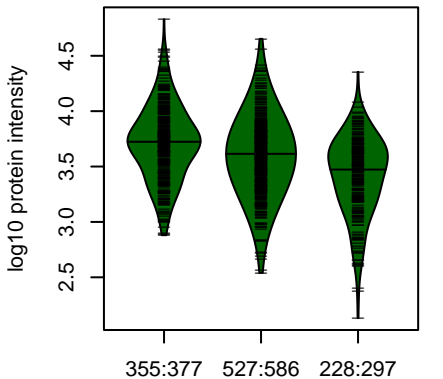
VNHAFLAVGYGEK pc3

rs111495139
 $p = 6.8e-06$, $\beta = 0.448$, $N = 325$

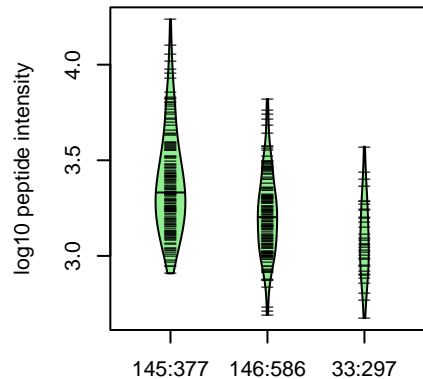
GIMGEDTYPYQGK pc2

rs111495139
 $p = 0.00013$, $\beta = 0.383$, $N = 320$

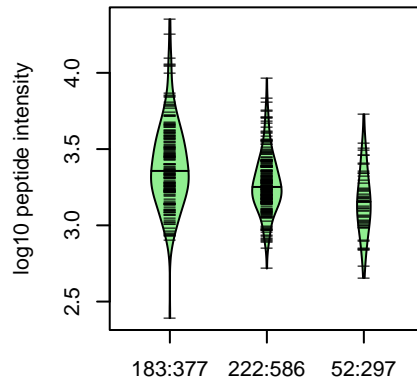
Locus: 81 (Sort: 97)
 Status: Replicated
 80% power: Yes
 SNP: 15:79229232:A:G
 rsID: rs111495139
 UniProtID: A0A087X0D5
 HGNC gene: CTSH
 Type: Cis-pQTL

PLEC [cis]

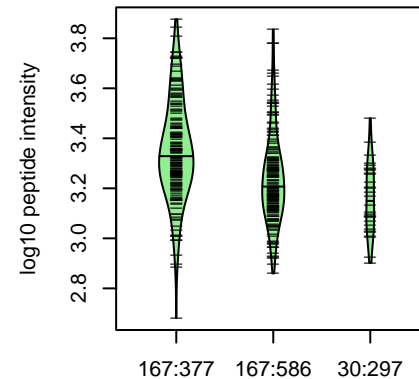
8:145001031:T:C_C
 $p = 1.4e-20$, $\beta = -0.381$, $N = 1110$

LGFHLPLEVAYQR pc3

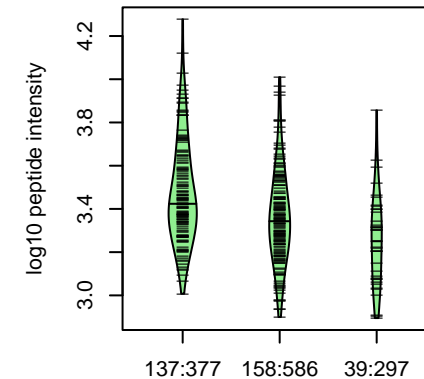
8:145001031:T:C_C
 $p = 2e-12$, $\beta = -0.567$, $N = 324$

SSIAGLLLK pc2

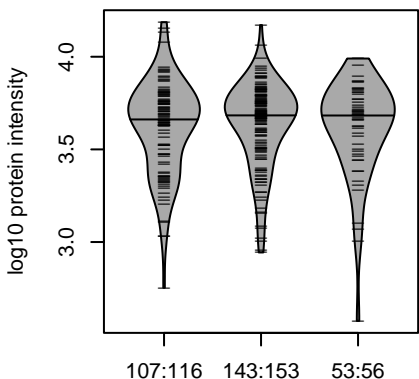
8:145001031:T:C_C
 $p = 6.5e-12$, $\beta = -0.472$, $N = 457$

AQLEPVASPAK pc2

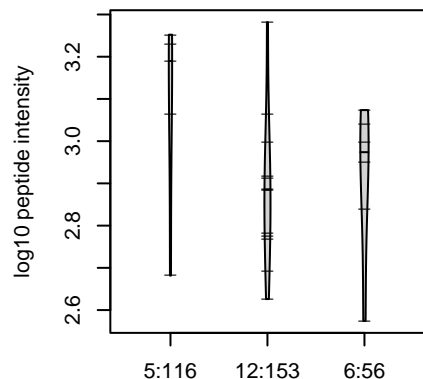
8:145001031:T:C_C
 $p = 7.7e-10$, $\beta = -0.492$, $N = 364$

ELIPTEEALR pc2

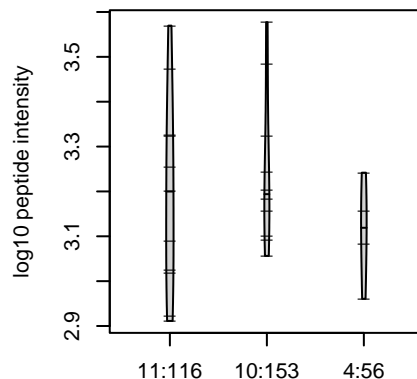
8:145001031:T:C_C
 $p = 6.8e-09$, $\beta = -0.46$, $N = 334$

Q15149 NP5

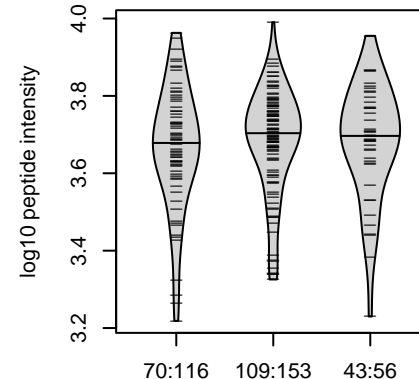
rs55895668
 $p = 0.4$, $\beta = -0.0645$, $N = 325$

NQGACGSCWTFSTTGALESAIATGK

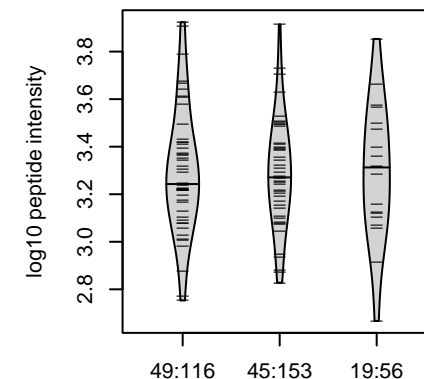
rs55895668
 $p = 0.34$, $\beta = -0.268$, $N = 23$

GNFVSPVK pc2

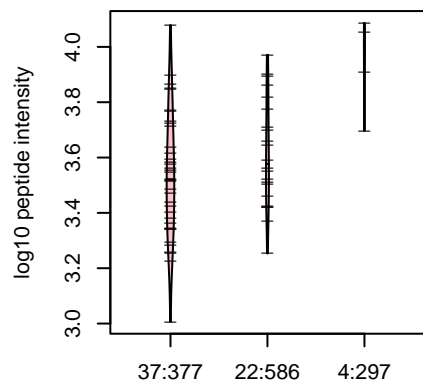
rs55895668
 $p = 0.63$, $\beta = -0.125$, $N = 25$

GIMGEDTYPYQGK pc2

rs55895668
 $p = 0.72$, $\beta = 0.0332$, $N = 222$

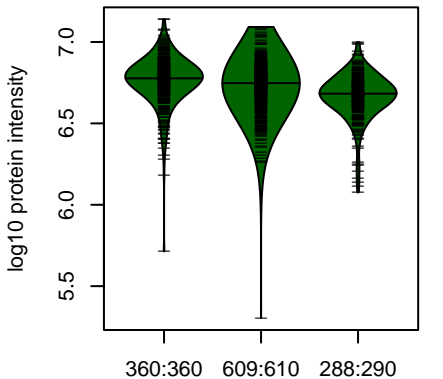
VNHAVLAVGYGEK pc3

rs55895668
 $p = 0.74$, $\beta = -0.0424$, $N = 113$

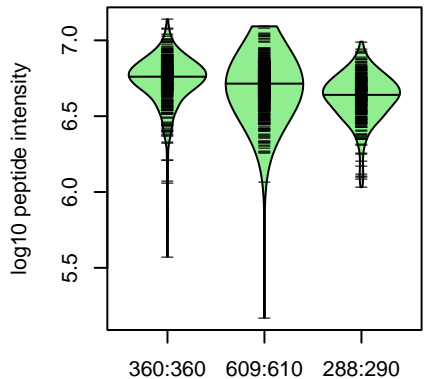
**GYFDEEMNR pc2
rs6558407 REF**

8:145001031:T:C_C
 $p = 1.4e-06$, $\text{model} = \text{REC}$, $N = 63$

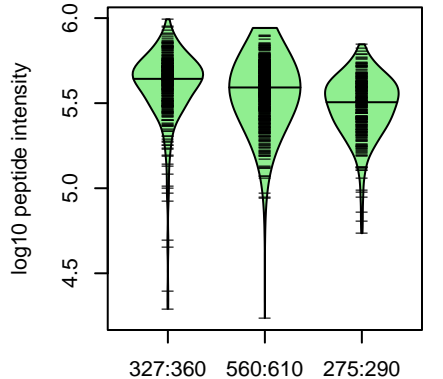
Locus: 82 (Sort: 98)
 Status: Not replicated
 80% power: Yes
 SNP: 8:145001031:T:C
 rsID: rs55895668
 UniProtID: Q15149
 HGNC gene: PLEC
 Type: Cis-pQTL

PON1 [cis]

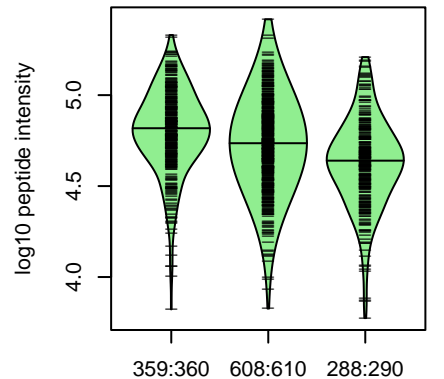
7:94953895:G:A_A
 $p = 3.2e-20$, $\beta = -0.356$, $N = 1257$

SFNPNSPGK pc2

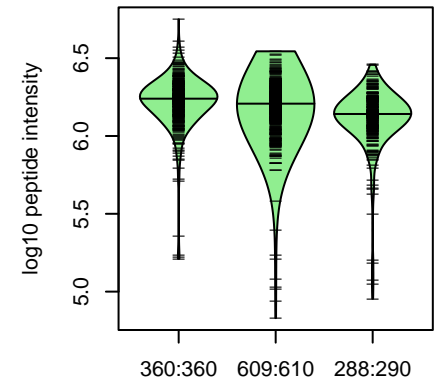
7:94953895:G:A_A
 $p = 2.6e-22$, $\beta = -0.374$, $N = 1257$

YVYIAELLAHK pc3

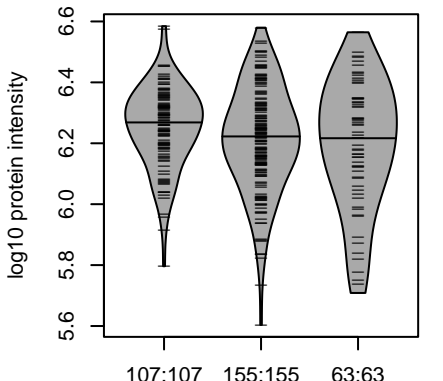
7:94953895:G:A_A
 $p = 1.5e-19$, $\beta = -0.361$, $N = 1162$

VTQVYAENGTVLQGSTVASVYK pc

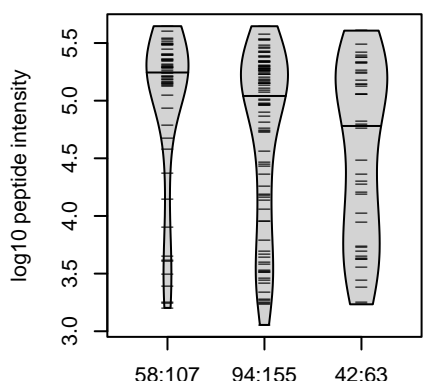
7:94953895:G:A_A
 $p = 6.3e-18$, $\beta = -0.334$, $N = 1255$

EVQPVELPNCNLVK pc2

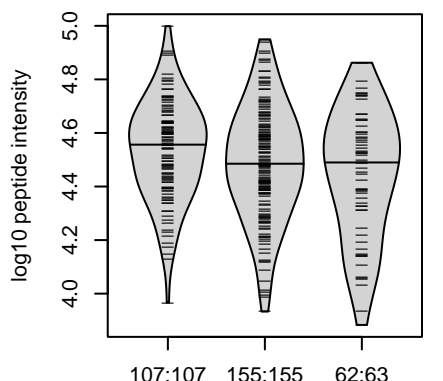
7:94953895:G:A_A
 $p = 8.7e-18$, $\beta = -0.332$, $N = 1257$

P27169 NP5

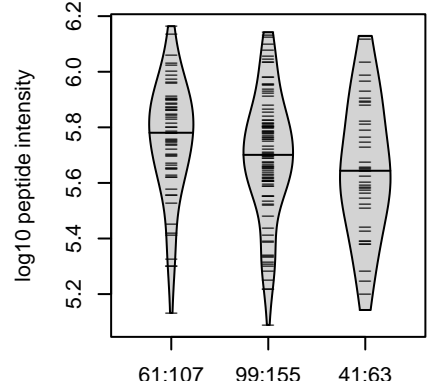
rs705379
 $p = 0.088$, $\beta = -0.129$, $N = 325$

VVAEGDFDFANGINISPDGK pc2

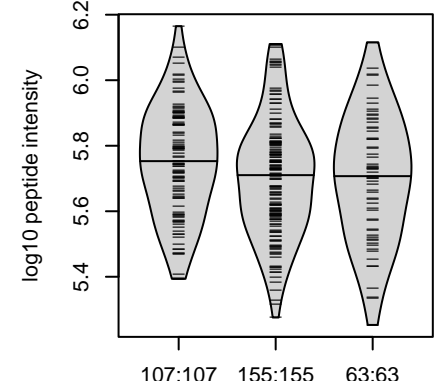
rs705379
 $p = 0.0022$, $\beta = -0.299$, $N = 194$

ILLMDLNEEDPTVLELGITGSK pc3

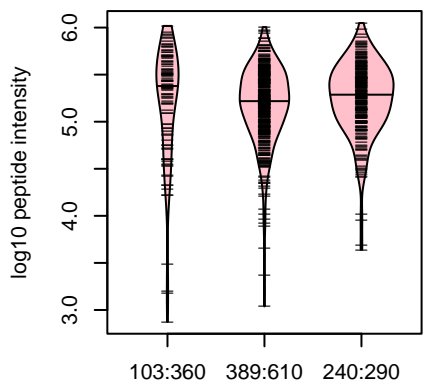
rs705379
 $p = 0.0081$, $\beta = -0.204$, $N = 324$

STVELFK pc2

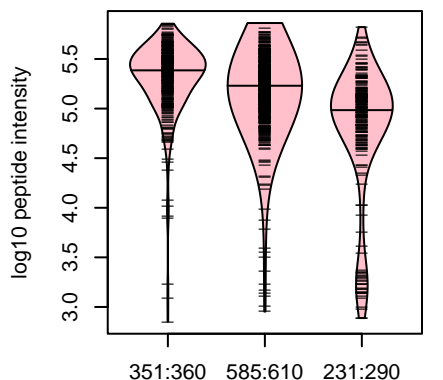
rs705379
 $p = 0.029$, $\beta = -0.214$, $N = 201$

EVQPVELPNCNLVK pc2

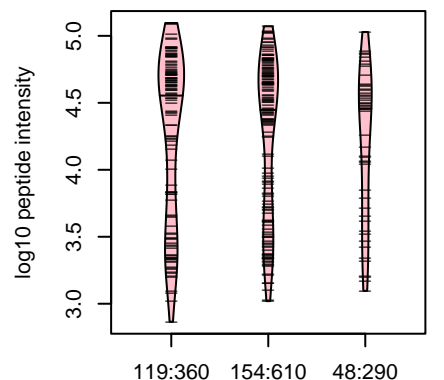
rs705379
 $p = 0.04$, $\beta = -0.158$, $N = 325$

**GIETGSEDMEILPNGLAFISSGLK pc
CM971236 ALT**

7:94953895:G:A_A
 $p = 4.4e-41$, $\text{model} = \text{REC}$, $N = 732$

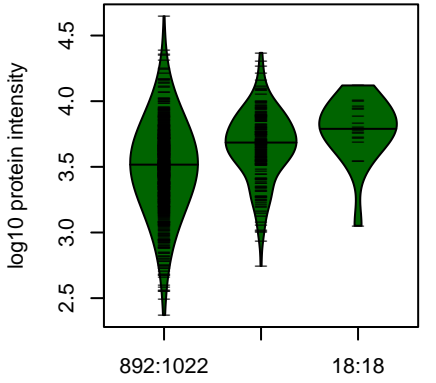
**GIETGSEDLEILPNGLAFISSGLK pc
CM971236 REF**

7:94953895:G:A_A
 $p = 3.3e-18$, $\text{model} = \text{DOM}$, $N = 1167$

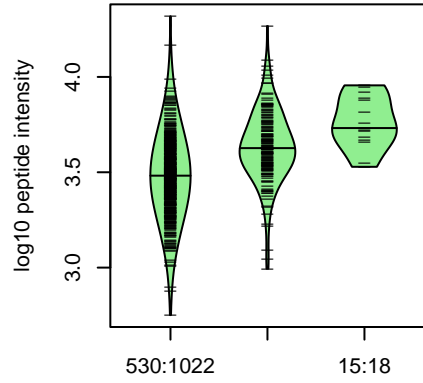
**PNLNDIVAVGPEHFYGTNDHYFLDPYL
rs662 ALT**

7:94953895:G:A_A
 $p = 6e-05$, $\text{model} = \text{DOM}$, $N = 321$

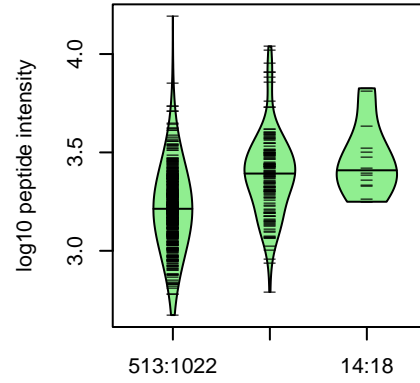
Locus: 83 (Sort: 99)
 Status: Not replicated
 80% power: Yes
 SNP: 7:94953895:G:A
 rsID: rs705379
 UniProtID: P27169
 HGNC gene: PON1
 Type: Cis-pQTL

DYNC1H1 [trans]

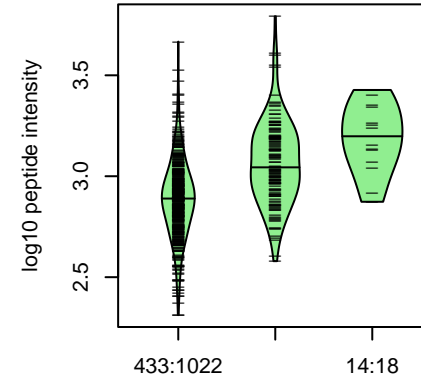
1:248039294:G:A_A
 $p = 7.4e-20$, $\beta = 0.598$, $N = 1111$

VNFLPEIITLSK pc2

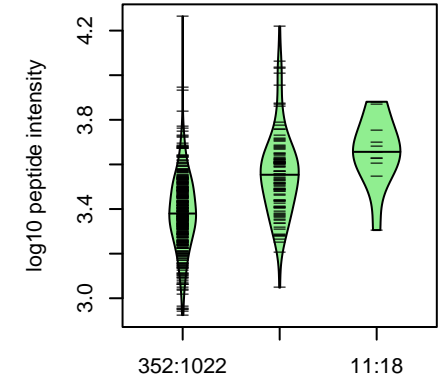
1:248039294:G:A_A
 $p = 8.2e-26$, $\beta = 0.775$, $N = 703$

SLLQALNEVK pc2

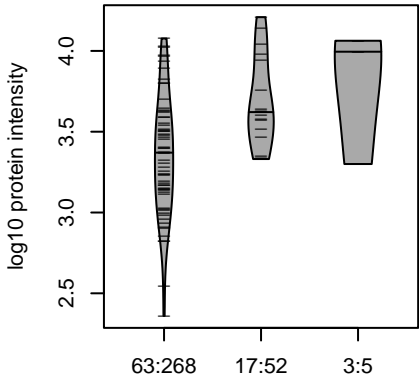
1:248039294:G:A_A
 $p = 3.5e-24$, $\beta = 0.777$, $N = 671$

LSLSNAISTALPLTQLR pc2

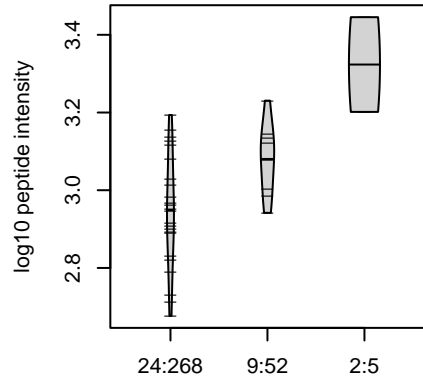
1:248039294:G:A_A
 $p = 6.6e-23$, $\beta = 0.773$, $N = 586$

MVVLSLPR pc2

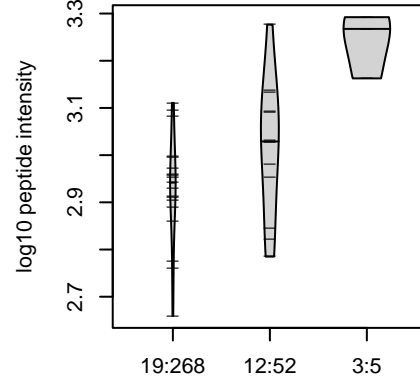
1:248039294:G:A_A
 $p = 1.2e-19$, $\beta = 0.799$, $N = 471$

Q14204 NP4

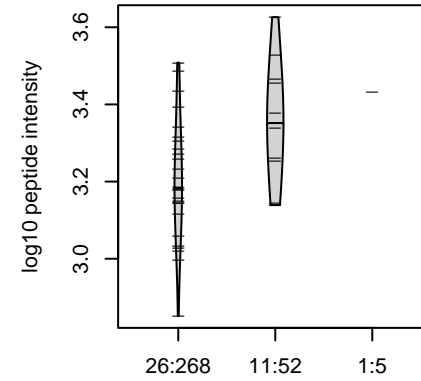
rs1339847
 $p = 3e-04$, $\beta = 0.72$, $N = 83$

LSLSNAISTALPLTQLR pc2

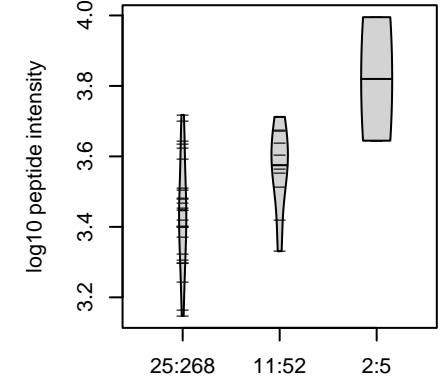
rs1339847
 $p = 0.00054$, $\beta = 0.858$, $N = 35$

FQSISTEFLALMK pc2

rs1339847
 $p = 0.00063$, $\beta = 0.777$, $N = 34$

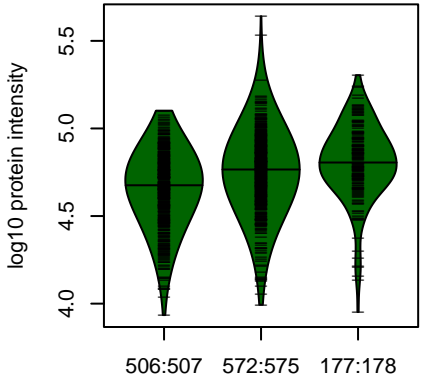
SLLQALNEVK pc2

rs1339847
 $p = 0.0069$, $\beta = 0.751$, $N = 38$

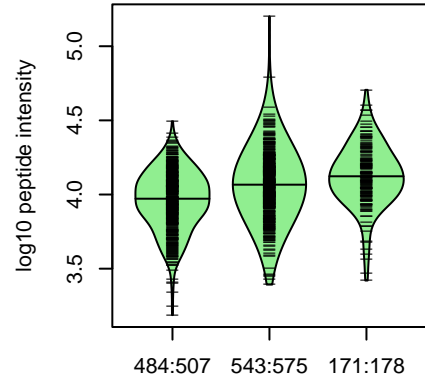
VEPAVIEAQNNAVK pc2

rs1339847
 $p = 0.0079$, $\beta = 0.664$, $N = 38$

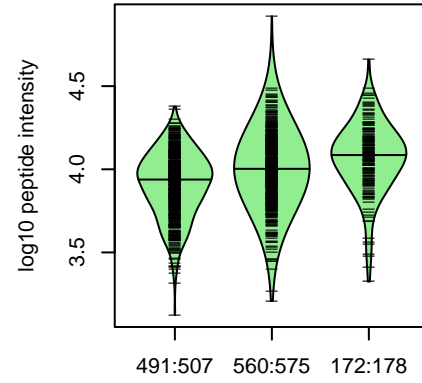
Locus: 84 (Sort: 100)
 Status: Not replicated
 80% power: No
 SNP: 1:248039294:G:A
 rsID: rs1339847
 UniProtID: Q14204
 HGNC gene: DYNC1H1
 Type: Trans-pQTL

C6 [cis]

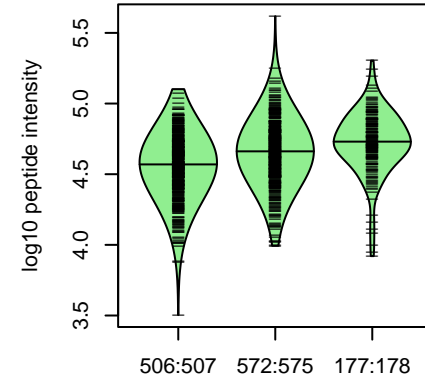
5:41199012:G:T_G
 $p = 8.1e-20$, $\beta = 0.365$, $N = 1255$

ECNNPAPQR pc2

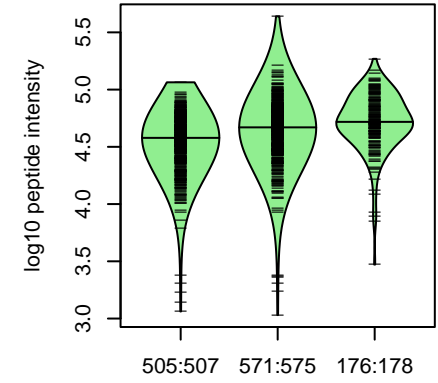
5:41199012:G:T_G
 $p = 1.9e-23$, $\beta = 0.407$, $N = 1198$

NSGLTEEEAK pc2

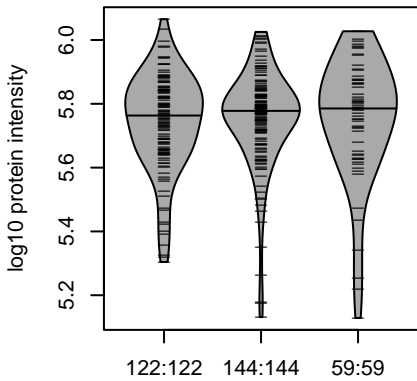
5:41199012:G:T_G
 $p = 2.1e-23$, $\beta = 0.404$, $N = 1223$

TLNICEVGTIR pc2

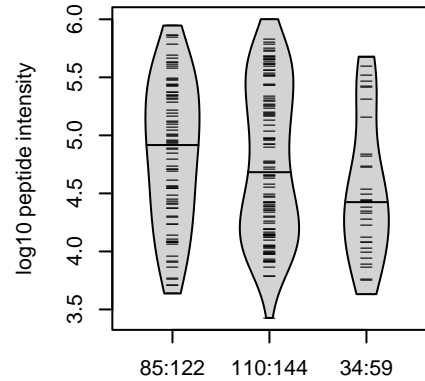
5:41199012:G:T_G
 $p = 9.8e-23$, $\beta = 0.393$, $N = 1255$

IGESIELTCPK pc2

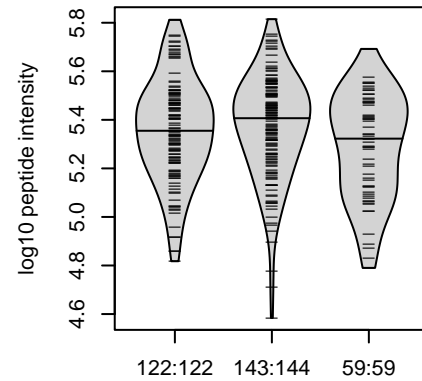
5:41199012:G:T_G
 $p = 2.2e-21$, $\beta = 0.381$, $N = 1252$

P13671 NP3

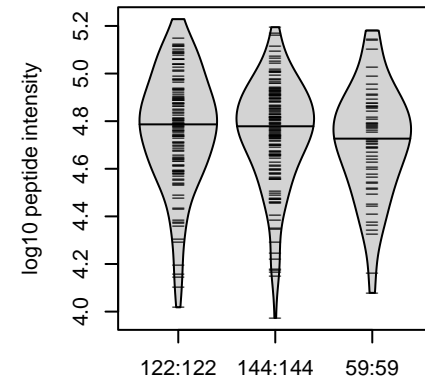
rs7443604
 $p = 0.85$, $\beta = 0.0147$, $N = 325$

GFVVAGPSR pc2

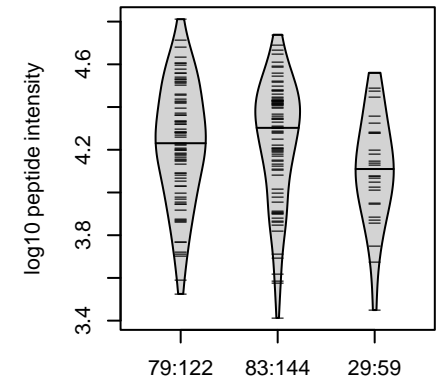
rs7443604
 $p = 0.035$, $\beta = -0.199$, $N = 229$

NIPCAVTK pc2

rs7443604
 $p = 0.045$, $\beta = -0.152$, $N = 324$

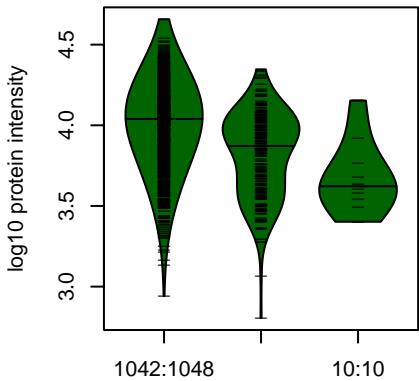
IEEADCK pc2

rs7443604
 $p = 0.072$, $\beta = -0.136$, $N = 325$

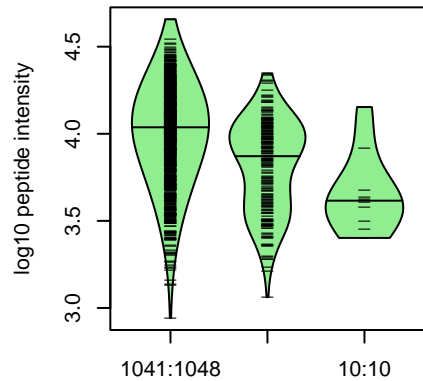
GSSGLEEK pc2

rs7443604
 $p = 0.13$, $\beta = -0.152$, $N = 191$

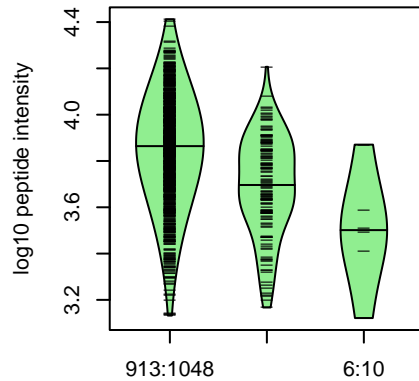
Locus: 85 (Sort: 101)
 Status: Not replicated
 80% power: Yes
 SNP: 5:41199012:G:T
 rsID: rs7443604
 UniProtID: P13671
 HGNC gene: C6
 Type: Cis-pQTL

GALC [cis]

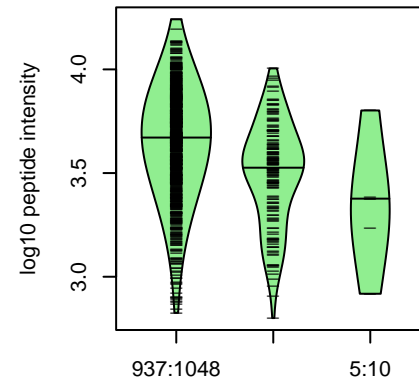
14:88478827:T:C_C
 $p = 1.3e-19$, $\beta = -0.625$, $N = 1252$

SLWTDIPVNFPK pc2

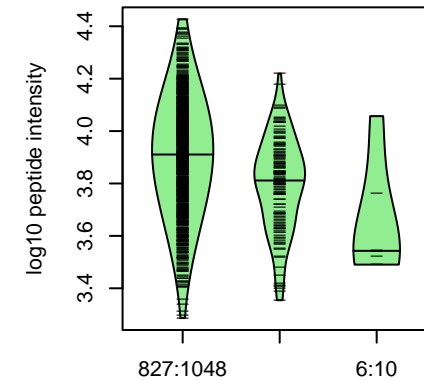
14:88478827:T:C_C
 $p = 1e-18$, $\beta = -0.613$, $N = 1249$

GYEWWLMK pc2

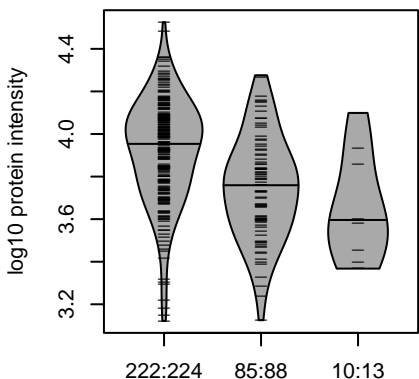
14:88478827:T:C_C
 $p = 3e-14$, $\beta = -0.616$, $N = 1065$

GSFSEIPELQVWYTK pc2

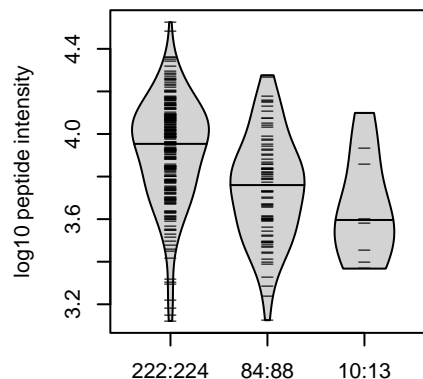
14:88478827:T:C_C
 $p = 1.4e-11$, $\beta = -0.536$, $N = 1103$

SQFPSTYK pc2

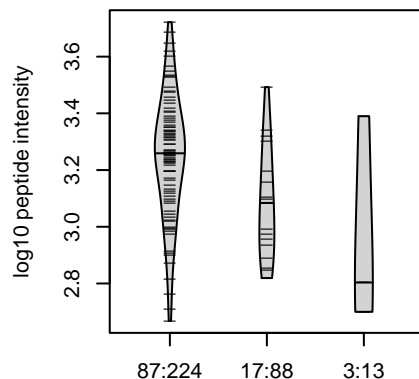
14:88478827:T:C_C
 $p = 1.4e-08$, $\beta = -0.483$, $N = 965$

P54803 NP5

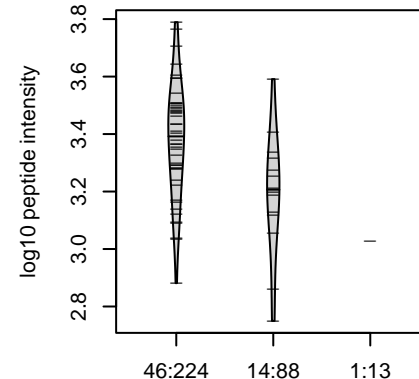
rs12434101
 $p = 1.7e-09$, $\beta = -0.616$, $N = 317$

SLWTDIPVNFPK pc2

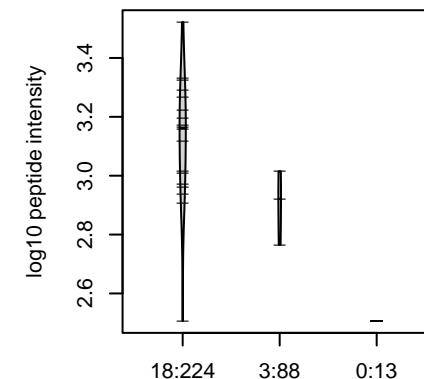
rs12434101
 $p = 4.3e-09$, $\beta = -0.596$, $N = 316$

VTGDLAGWIIYALGRVEVTAK pc3

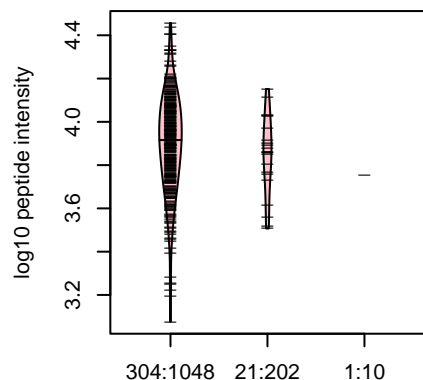
rs12434101
 $p = 0.0078$, $\beta = -0.52$, $N = 107$

CDVYIETPDTGGVFIAGR pc2

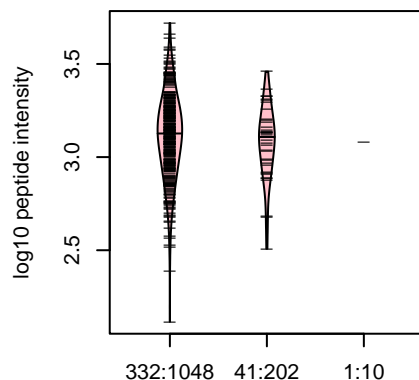
rs12434101
 $p = 0.009$, $\beta = -0.657$, $N = 61$

EIGGDGQTTDGTESHMHYALDENYF

rs12434101
 $p = 0.016$, $\beta = -1.3$, $N = 21$

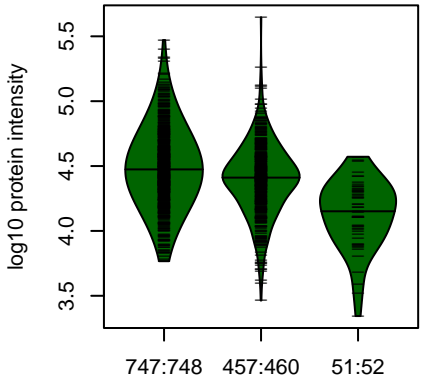
**VVNVIGAHYPGTHSAK pc3
rs34362748 ALT**

14:88478827:T:C_C
 $p = 1.8e-09$, $\text{model} = \text{REC}$, $N = 326$

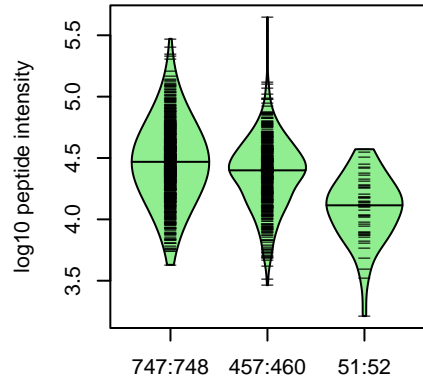
**VVDVIGAHYPGTHSAK pc4
rs34362748 REF**

14:88478827:T:C_C
 $p = 0.00051$, $\text{model} = \text{REC}$, $N = 374$

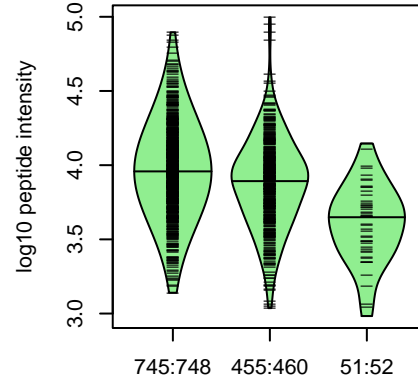
Locus: 86 (Sort: 102)
 Status: Replicated
 80% power: Yes
 SNP: 14:88478827:T:C
 rsID: rs12434101
 UniProtID: P54803
 HGNC gene: GALC
 Type: Cis-pQTL

FBXO7 [cis]

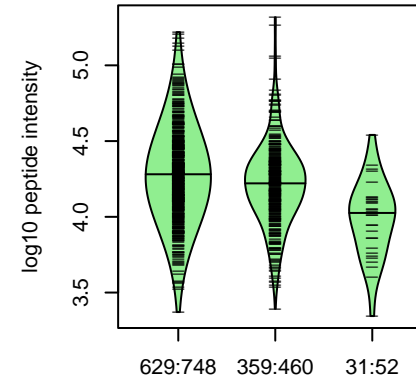
22:32871227:C:T_T
 $p = 1.7e-19$, $\beta = -0.436$, $N = 1255$

DQLVYPLLAFTF pc2

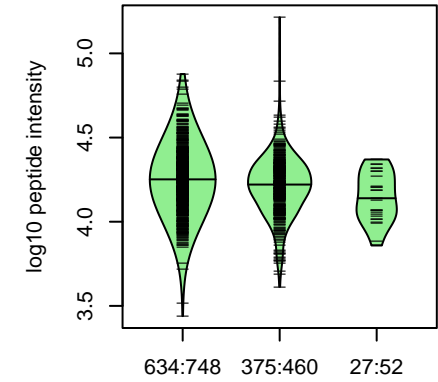
22:32871227:C:T_T
 $p = 3.2e-20$, $\beta = -0.444$, $N = 1255$

DLFTASNDPLLWR pc2

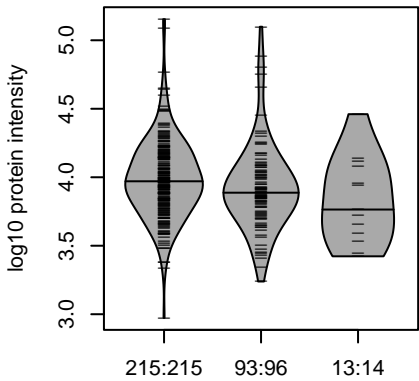
22:32871227:C:T_T
 $p = 1.8e-18$, $\beta = -0.424$, $N = 1251$

SVLSLSAVCR pc2

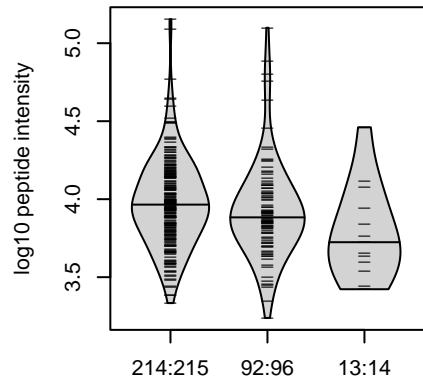
22:32871227:C:T_T
 $p = 9.5e-10$, $\beta = -0.343$, $N = 1019$

VQDTDWK pc2

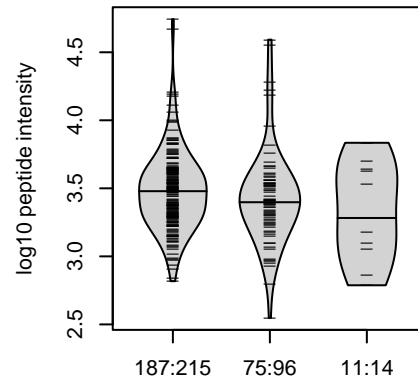
22:32871227:C:T_T
 $p = 4.9e-06$, $\beta = -0.259$, $N = 1036$

Q9Y3I1 NP1

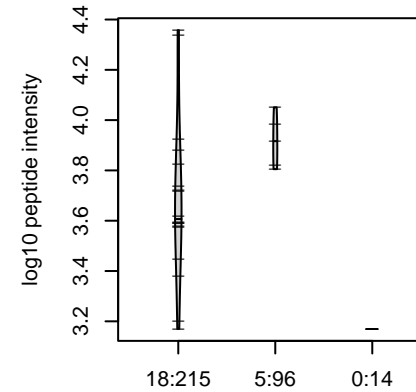
rs8136485
 $p = 0.0048$, $\beta = -0.279$, $N = 321$

DQLVYPLLAFTF pc2

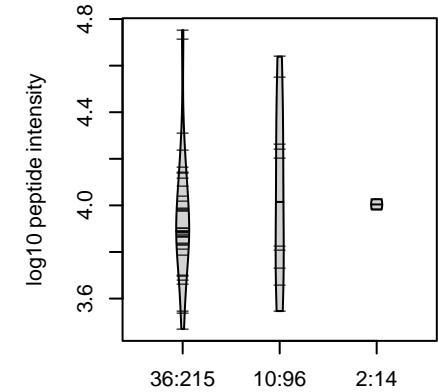
rs8136485
 $p = 0.0066$, $\beta = -0.267$, $N = 319$

DLFTASNDPLLWR pc2

rs8136485
 $p = 0.031$, $\beta = -0.23$, $N = 273$

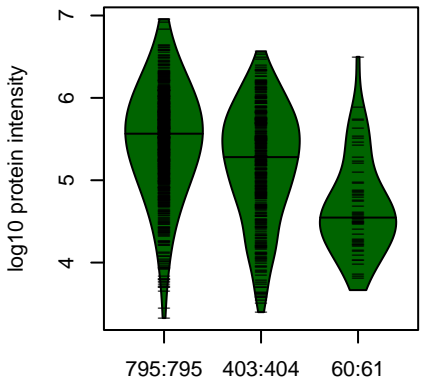
LQLLPESFICK pc2

rs8136485
 $p = 0.067$, $\beta = 0.829$, $N = 23$

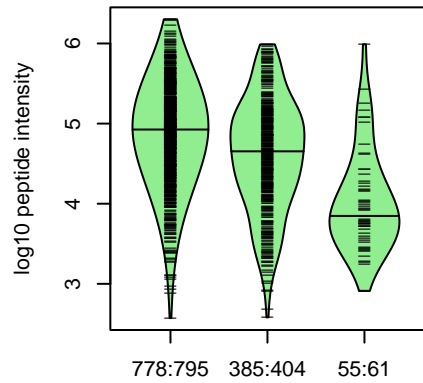
VQDTDWK pc2

rs8136485
 $p = 0.26$, $\beta = 0.289$, $N = 48$

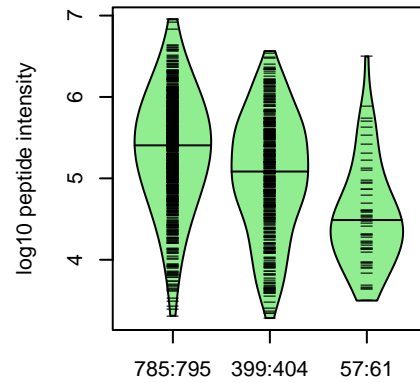
Locus: 87 (Sort: 103)
 Status: Not replicated
 80% power: Yes
 SNP: 22:32871227:C:T
 rsID: rs8136485
 UniProtID: Q9Y3I1
 HGNC gene: FBXO7
 Type: Cis-pQTL

LPA [cis]

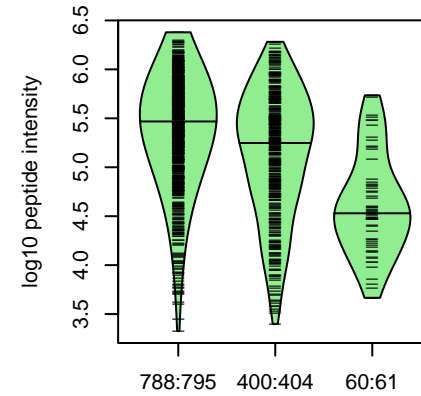
6:160986915:A:C_A
 $p = 2.3e-19$, $\beta = -0.428$, $N = 1258$

LFLEPTQADIALLK pc2

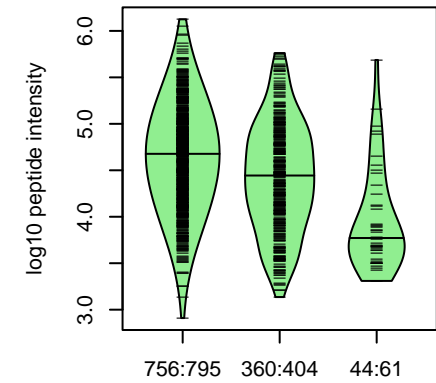
6:160986915:A:C_A
 $p = 1.8e-18$, $\beta = -0.428$, $N = 1218$

GTYSTTVTGR pc2

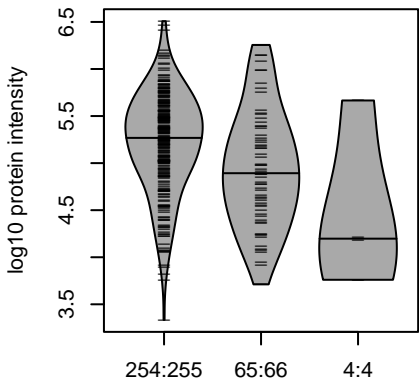
6:160986915:A:C_A
 $p = 4e-18$, $\beta = -0.418$, $N = 1241$

NPDAVAAPYCYTR pc2

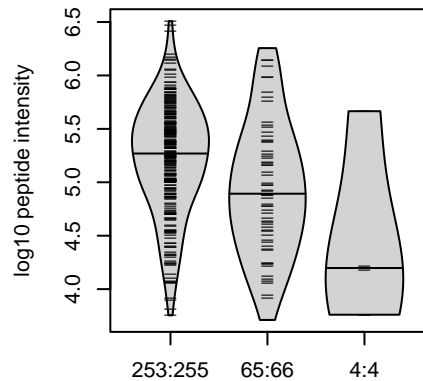
6:160986915:A:C_A
 $p = 3.1e-17$, $\beta = -0.403$, $N = 1248$

EAQLLVIENEVCNHYK pc3

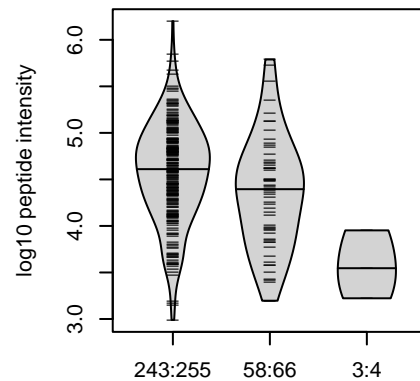
6:160986915:A:C_A
 $p = 4.1e-16$, $\beta = -0.419$, $N = 1160$

P08519 NP4

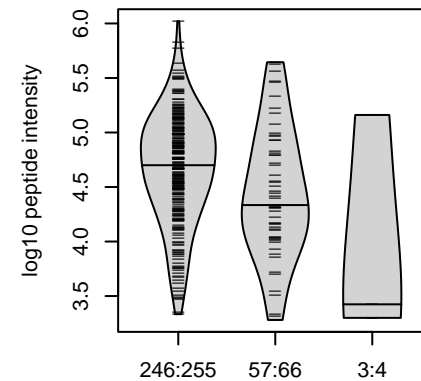
rs6938647
 $p = 0.0011$, $\beta = -0.395$, $N = 323$

NPDAVAAPYCYTR pc2

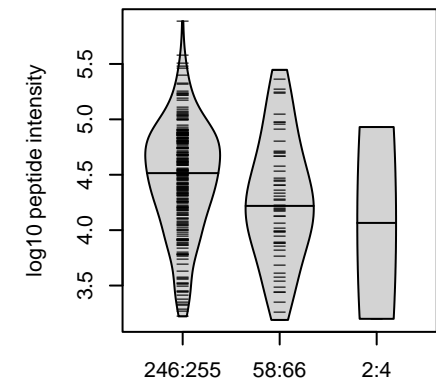
rs6938647
 $p = 0.00075$, $\beta = -0.411$, $N = 322$

TTEYYPNGGLTR pc2

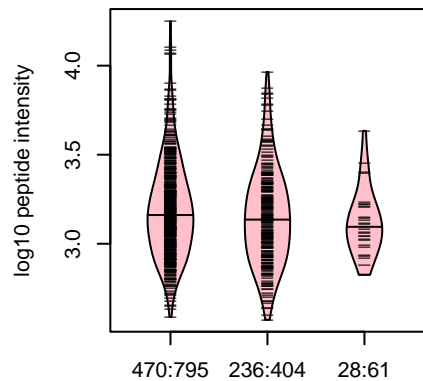
rs6938647
 $p = 0.0024$, $\beta = -0.396$, $N = 304$

TCQAWSSMTPHSHSR pc3

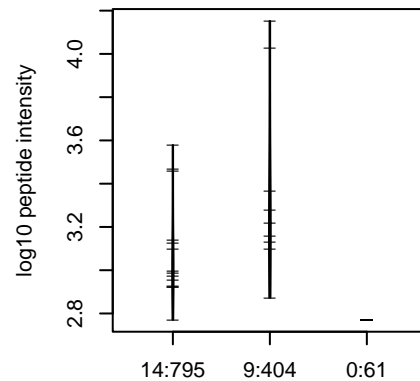
rs6938647
 $p = 0.012$, $\beta = -0.33$, $N = 306$

LFLEPTQADIALLK pc2

rs6938647
 $p = 0.025$, $\beta = -0.301$, $N = 306$

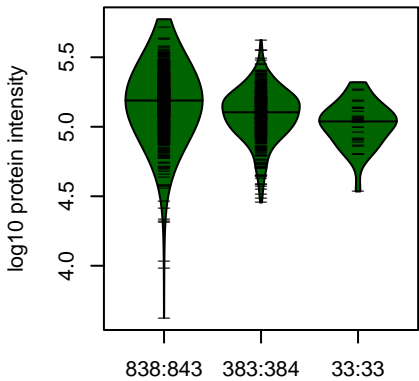
**YILQGVTSWGLGCAR pc2
rs3124784 REF**

6:160986915:A:C_A
 $p = 0.047$, $\text{model} = \text{DOM}$, $N = 734$

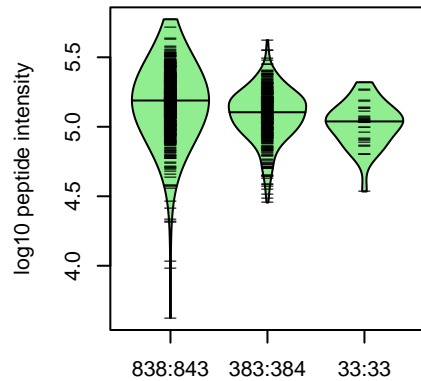
**NPADTGPWCFTMDPSIR pc3
rs1801693 REF**

6:160986915:A:C_A
 $p = 0.62$, $\text{model} = \text{DOM}$, $N = 23$

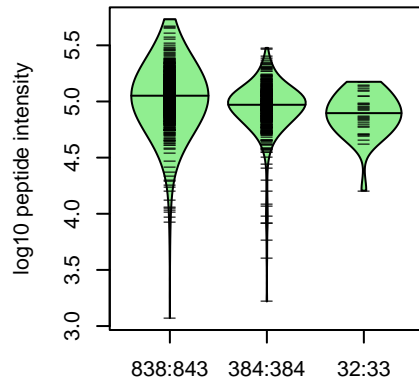
Locus: 88 (Sort: 104)
 Status: Not replicated
 80% power: Yes
 SNP: 6:160986915:A:C
 rsID: rs6938647
 UniProtID: P08519
 HGNC gene: LPA
 Type: Cis-pQTL

MASP2 [cis]

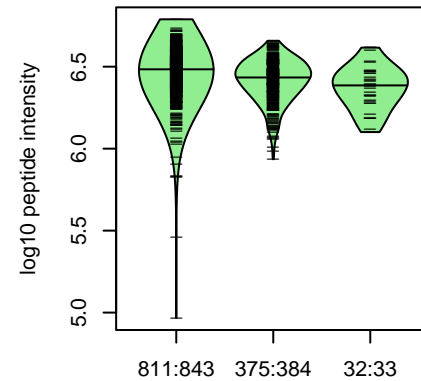
1:11104845:T:C_T
 $p = 3.3e-19$, $\beta = -0.467$, $N = 1254$

RTCSEQSL pc2

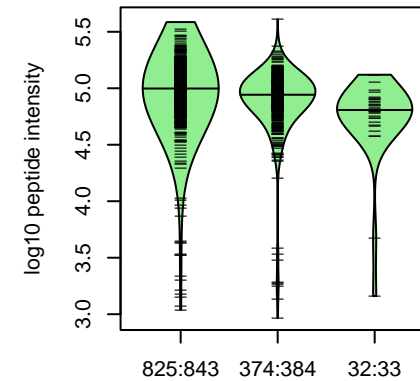
1:11104845:T:C_T
 $p = 3.3e-19$, $\beta = -0.467$, $N = 1254$

VLATLCGQESTDTER pc2

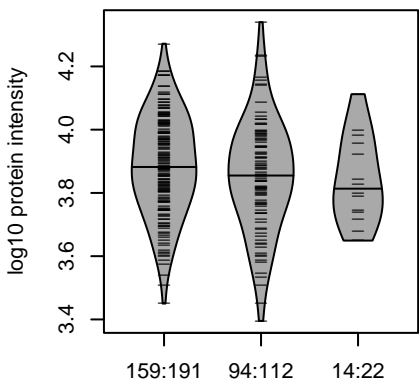
1:11104845:T:C_T
 $p = 7.5e-18$, $\beta = -0.45$, $N = 1254$

WPEPVFGR pc2

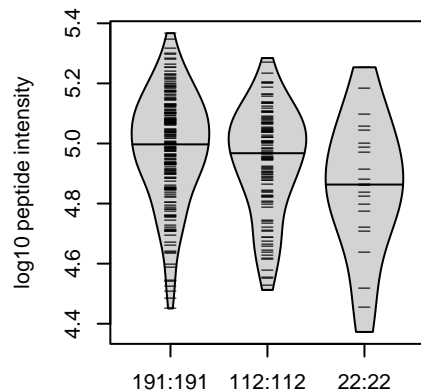
1:11104845:T:C_T
 $p = 4.5e-14$, $\beta = -0.4$, $N = 1218$

SDYSNEK pc2

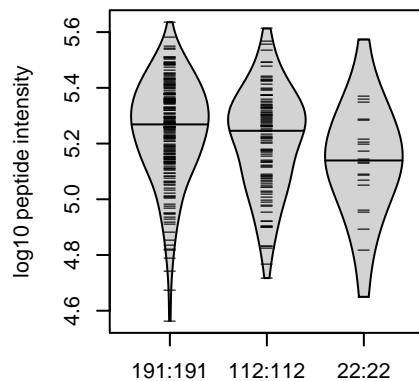
1:11104845:T:C_T
 $p = 1.1e-13$, $\beta = -0.393$, $N = 1231$

O00187 NP2

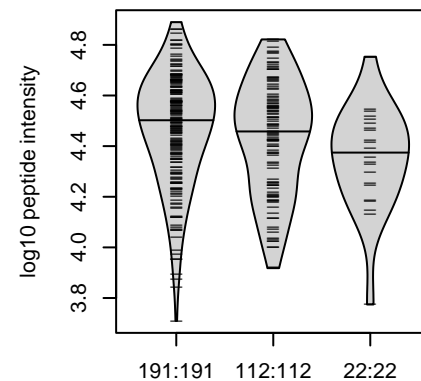
rs9430347
 $p = 0.086$, $\beta = -0.17$, $N = 267$

WLTAPPGYR pc2

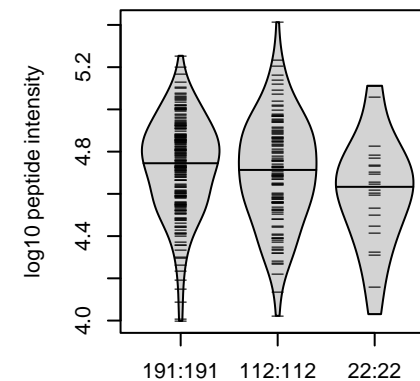
rs9430347
 $p = 0.00046$, $\beta = -0.307$, $N = 325$

WPEPVFGR pc2

rs9430347
 $p = 0.0082$, $\beta = -0.232$, $N = 325$

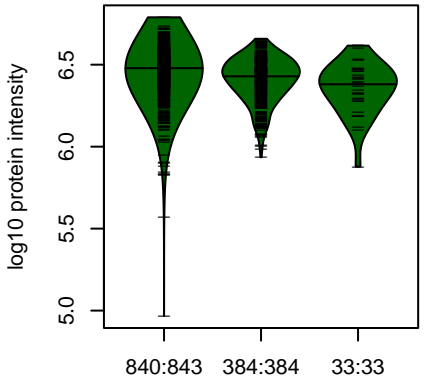
DTFYSLGSSLDITFR pc2

rs9430347
 $p = 0.014$, $\beta = -0.216$, $N = 325$

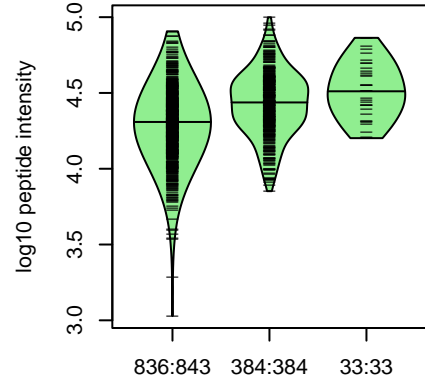
LASPGFPGEYANDQERR pc3

rs9430347
 $p = 0.044$, $\beta = -0.177$, $N = 325$

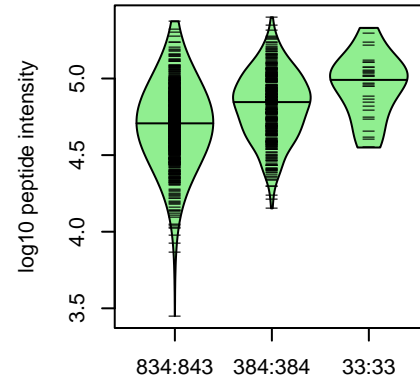
Locus: 89 (Sort: 105)
 Status: Not replicated
 80% power: No
 SNP: 1:11104845:T:C
 rsID: rs9430347
 UniProtID: O00187
 HGNC gene: MASP2
 Type: Cis-pQTL

MASP2 [cis]

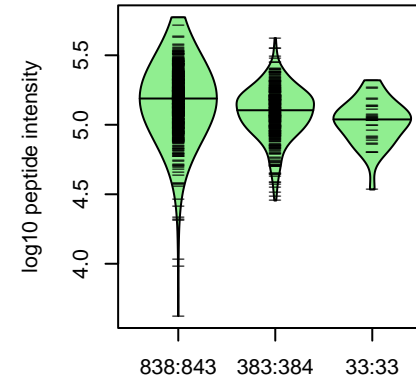
1:11104845:T:C_T
 $p = 5.7e-13$, $\beta = -0.377$, $N = 1257$

NLMYVDIPIVDHQQ pc3

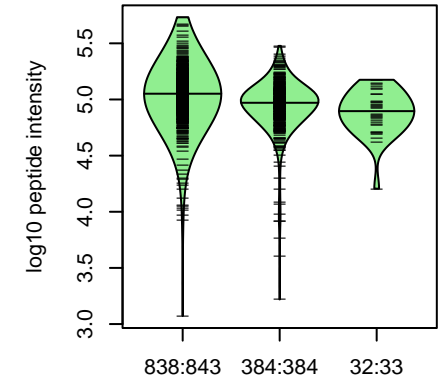
1:11104845:T:C_T
 $p = 1.4e-26$, $\beta = 0.552$, $N = 1253$

SLPVCEPVCGLSAR pc2

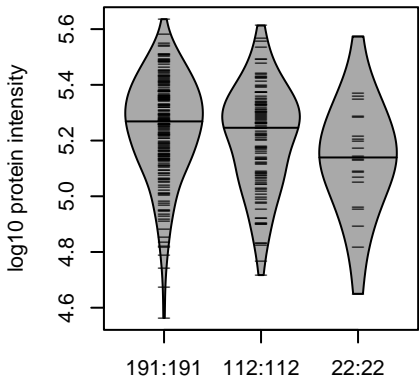
1:11104845:T:C_T
 $p = 1.9e-23$, $\beta = 0.518$, $N = 1251$

RTCSEQSL pc2

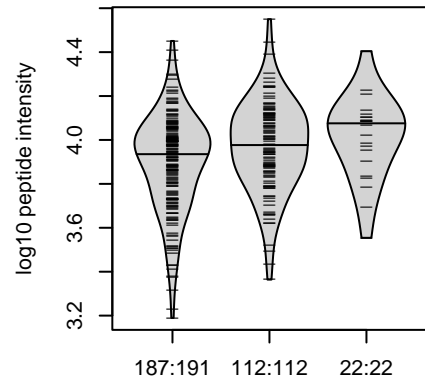
1:11104845:T:C_T
 $p = 3.3e-19$, $\beta = -0.467$, $N = 1254$

VLATLCGQESTDTER pc2

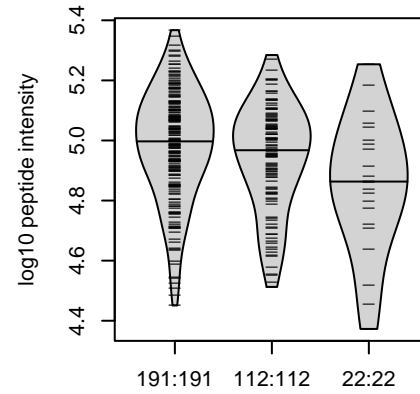
1:11104845:T:C_T
 $p = 7.5e-18$, $\beta = -0.45$, $N = 1254$

O00187 NP2

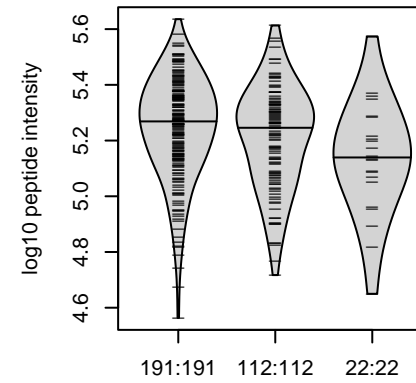
rs9430347
 $p = 0.0071$, $\beta = -0.237$, $N = 325$

VEYITGPGVTTYK pc2

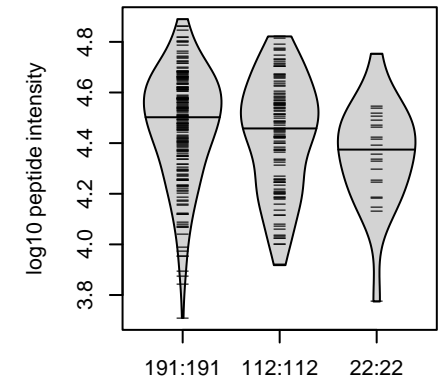
rs9430347
 $p = 0.00018$, $\beta = 0.329$, $N = 321$

WTLTAPPGYR pc2

rs9430347
 $p = 0.00046$, $\beta = -0.307$, $N = 325$

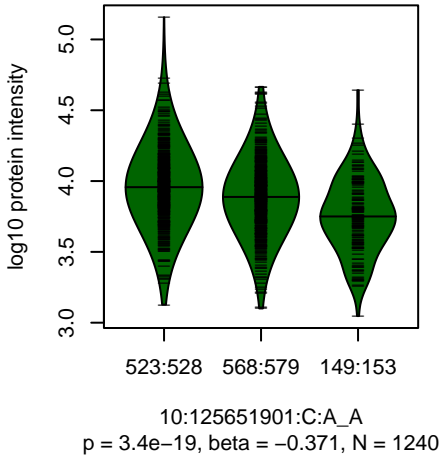
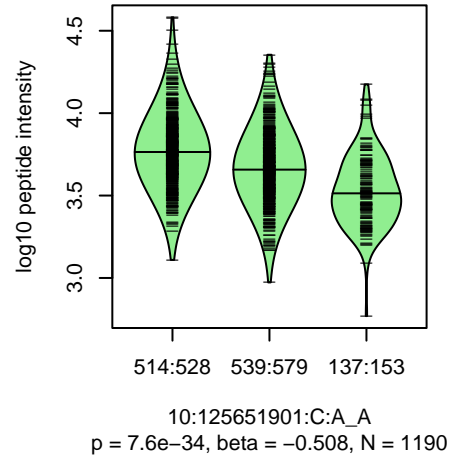
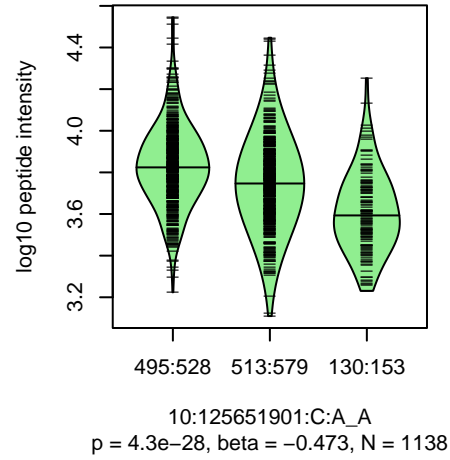
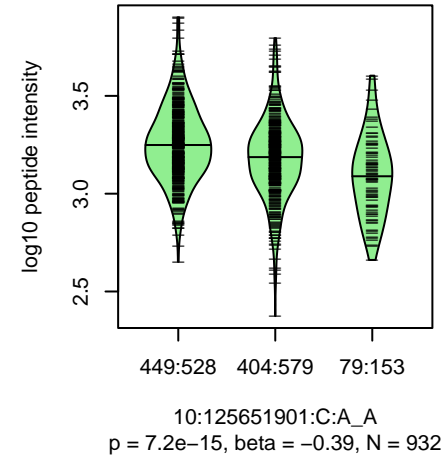
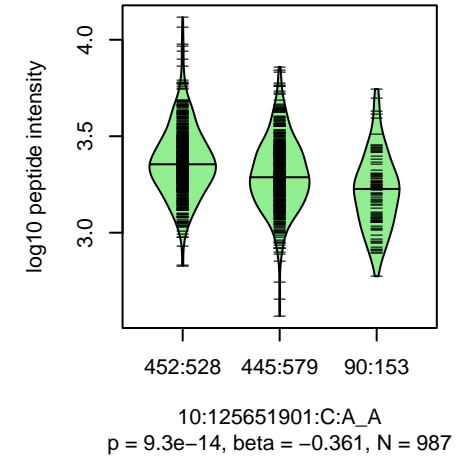
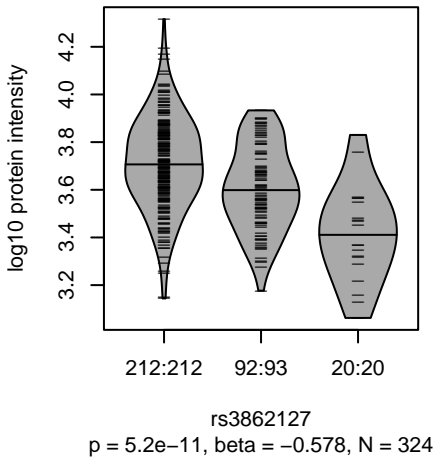
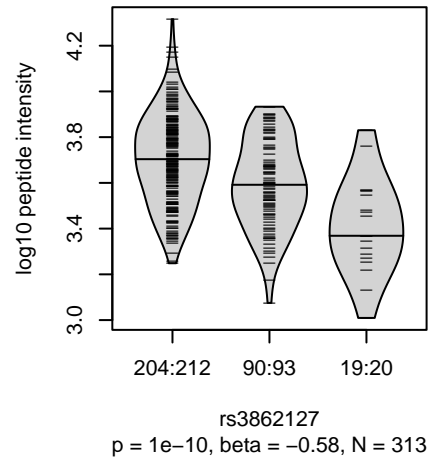
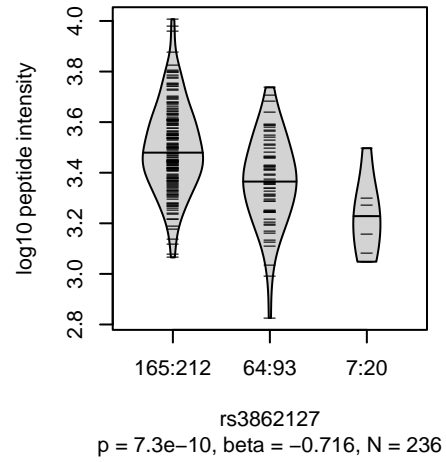
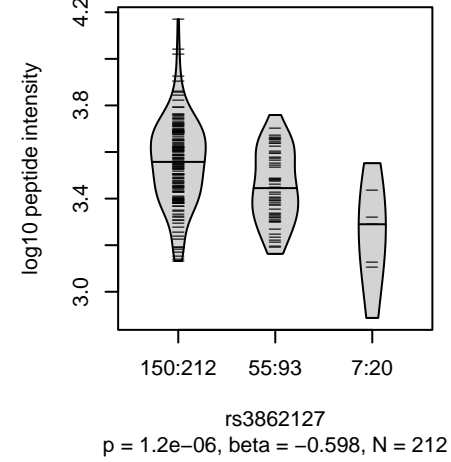
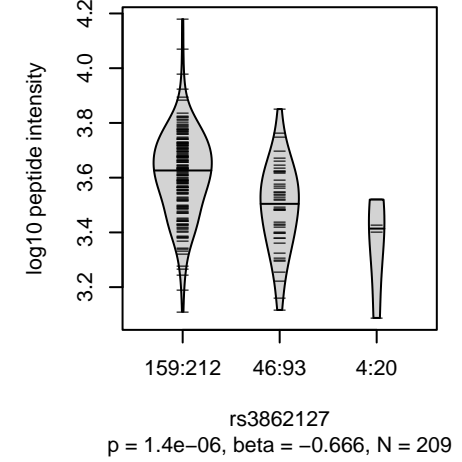
WPEPVFGR pc2

rs9430347
 $p = 0.0082$, $\beta = -0.232$, $N = 325$

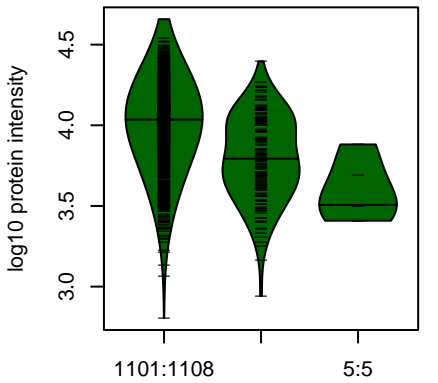
DTFYSLGSSLDITFR pc2

rs9430347
 $p = 0.014$, $\beta = -0.216$, $N = 325$

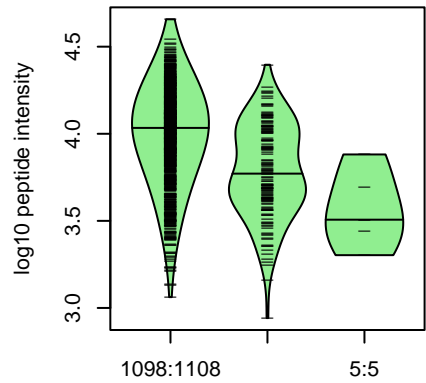
Locus: 89 (Sort: 106)
 Status: Not replicated
 80% power: No
 SNP: 1:11104845:T:C
 rsID: rs9430347
 UniProtID: O00187
 HGNC gene: MASP2
 Type: Cis-pQTL

CPXM2 [cis]**LLNPGEYVVTAK pc2****EIPVLNLPVPMVAR pc2****NSLWLSDWVTSYK pc2****NDLQQWIEVDAR pc2****Q8N436 NP5****LLNPGEYVVTAK pc2****IHVLPSLNPDGYEK pc3****EIPVLNLPVPMVAR pc2****ESCPPLGLETLK pc2**

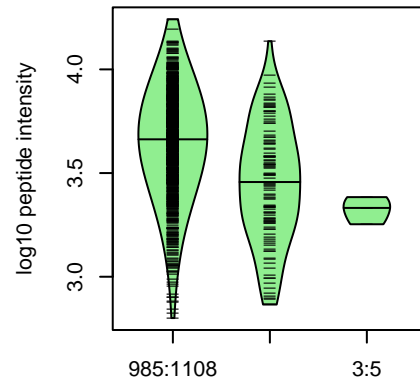
Locus: 90 (Sort: 107)
 Status: Replicated
 80% power: Yes
 SNP: 10:125651901:C:A
 rsID: rs3862127
 UniProtID: Q8N436
 HGNC gene: CPXM2
 Type: Cis-pQTL

GALC [cis]

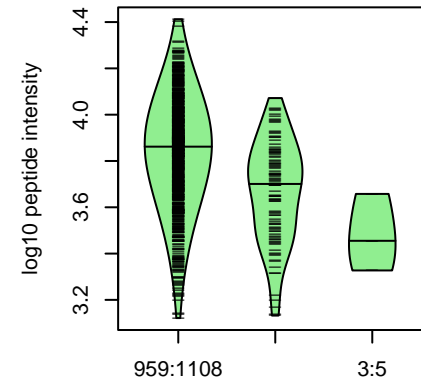
14:88413885:C:A_A
 $p = 6.4e-19$, $\beta = -0.72$, $N = 1252$

SLWTDIPVNFPK pc2

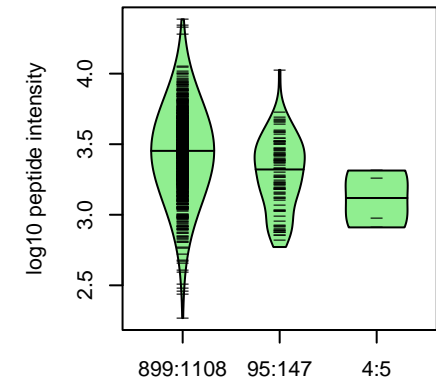
14:88413885:C:A_A
 $p = 1e-18$, $\beta = -0.715$, $N = 1249$

GSFSEIPELQVWYTK pc2

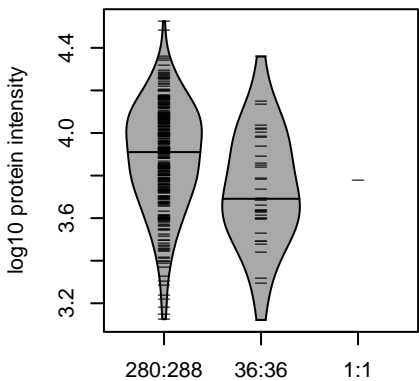
14:88413885:C:A_A
 $p = 6.1e-14$, $\beta = -0.692$, $N = 1103$

GYEWLLMK pc2

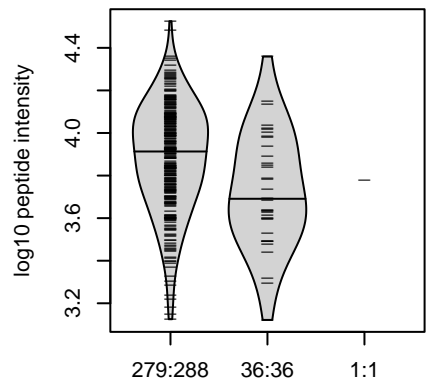
14:88413885:C:A_A
 $p = 1.9e-13$, $\beta = -0.709$, $N = 1065$

VTGDLAGWIIYALGRVEVTAK pc3

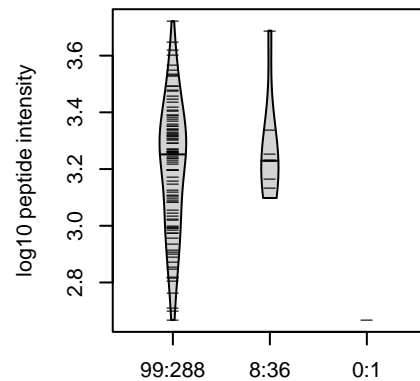
14:88413885:C:A_A
 $p = 6.6e-08$, $\beta = -0.533$, $N = 998$

P54803 NP5

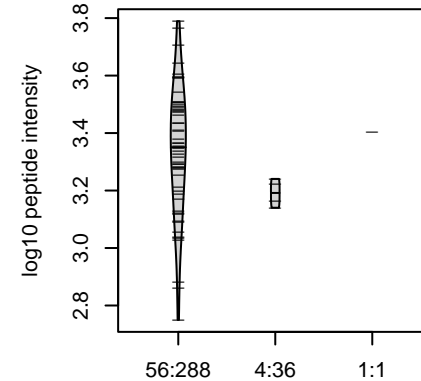
rs17123925
 $p = 0.0094$, $\beta = -0.433$, $N = 317$

SLWTDIPVNFPK pc2

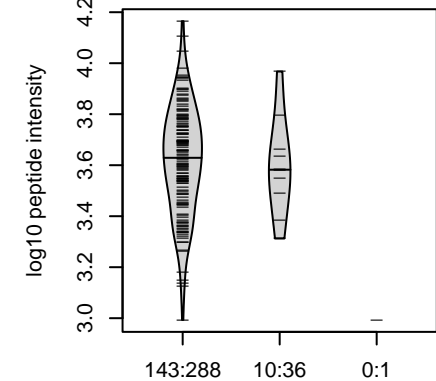
rs17123925
 $p = 0.0076$, $\beta = -0.441$, $N = 316$

VTGDLAGWIIYALGRVEVTAK pc3

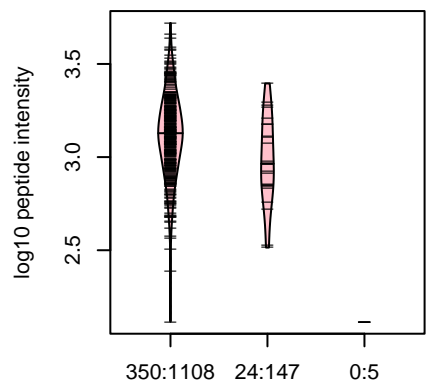
rs17123925
 $p = 0.21$, $\beta = 0.448$, $N = 107$

CDVYIETPDTGGVFIAGR pc2

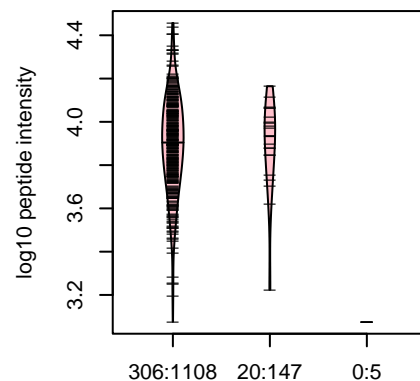
rs17123925
 $p = 0.35$, $\beta = -0.33$, $N = 61$

GSFSEIPELQVWYTK pc2

rs17123925
 $p = 0.53$, $\beta = -0.202$, $N = 153$

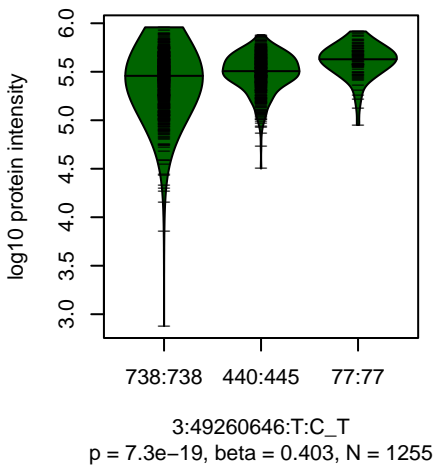
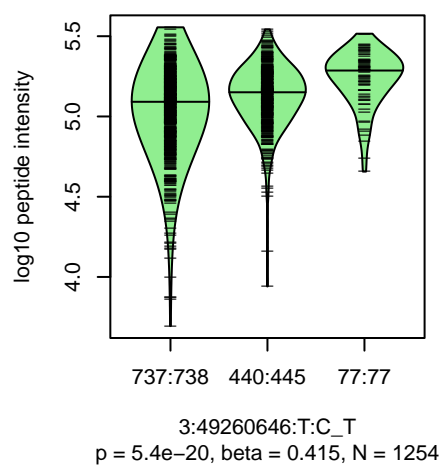
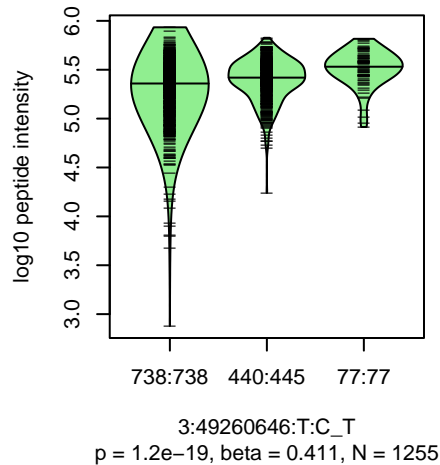
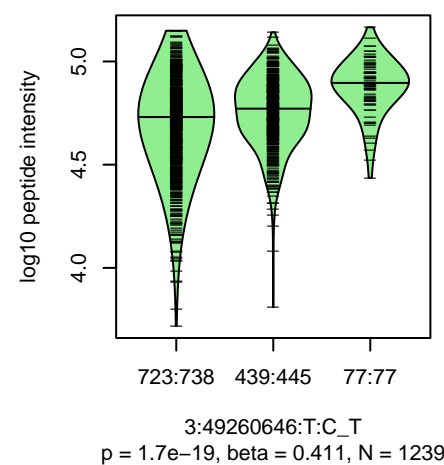
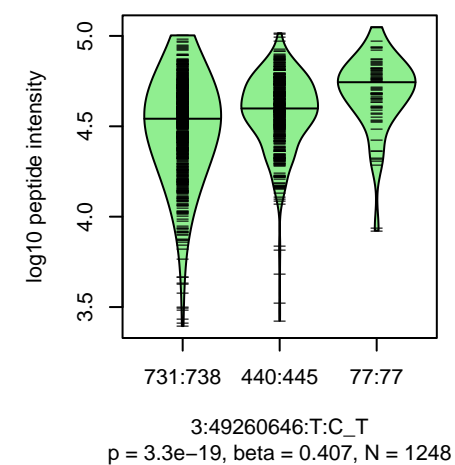
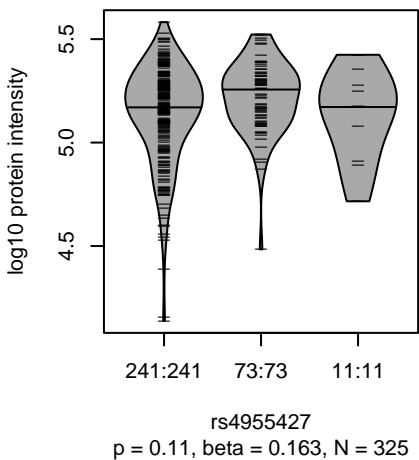
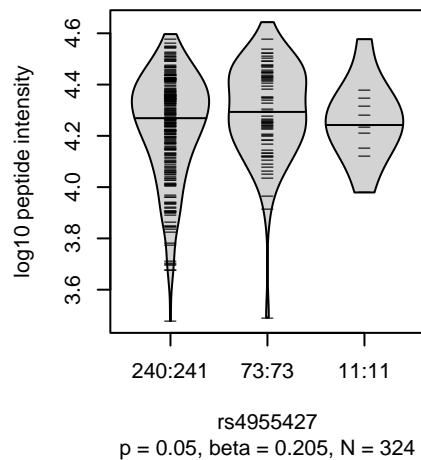
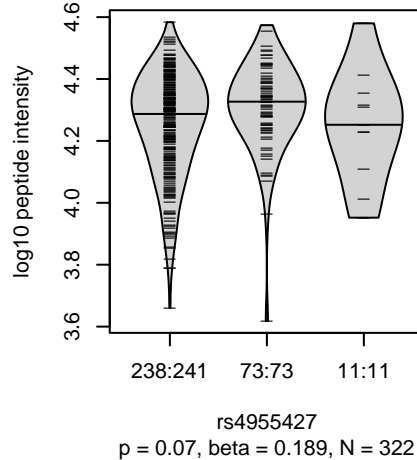
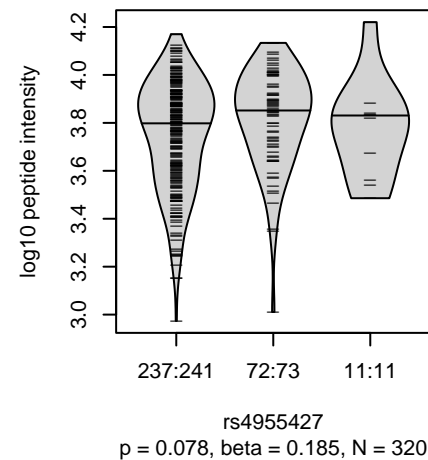
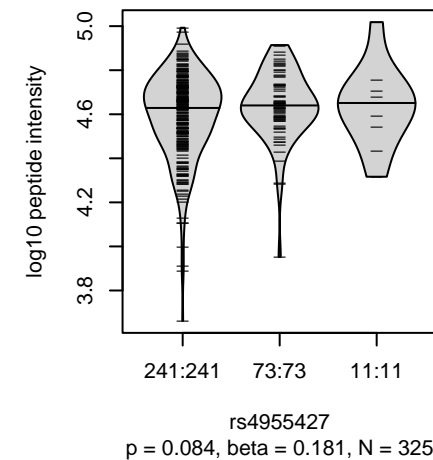
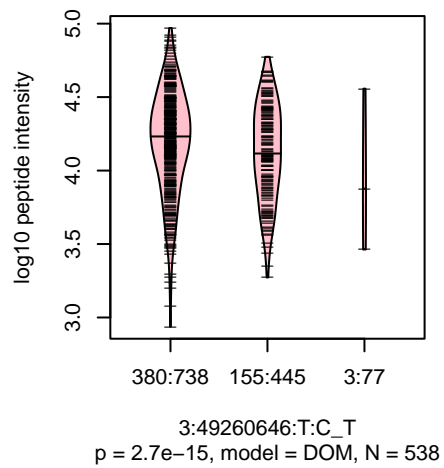
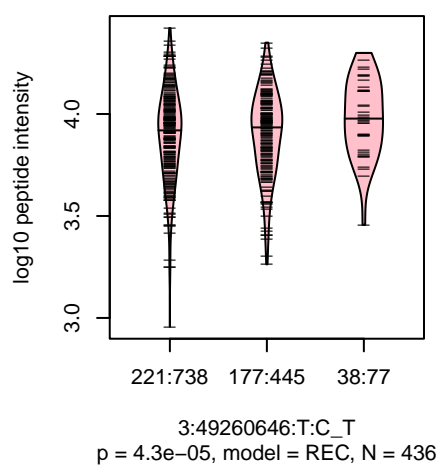
**VVDVIGAHYPGTHSAK pc4
rs34362748 REF**

14:88413885:C:A_A
 $p = 4e-05$, model = REC, $N = 374$

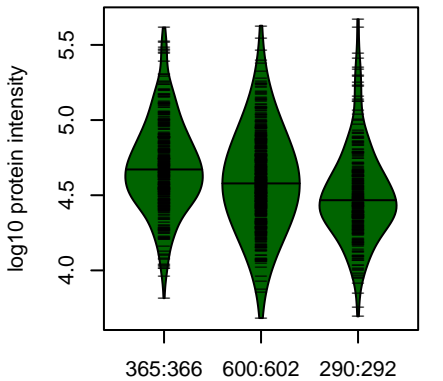
**VVNVIGAHYPGTHSAK pc3
rs34362748 ALT**

14:88413885:C:A_A
 $p = 7e-05$, model = REC, $N = 326$

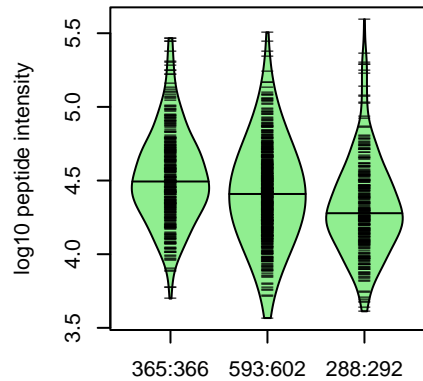
Locus: 91 (Sort: 108)
 Status: Not replicated
 80% power: Yes
 SNP: 14:88413885:C:A
 rsID: rs17123925
 UniProtID: P54803
 HGNC gene: GALC
 Type: Cis-pQTL

MST1 [cis]**TPFDYCALR pc2****MVCGPSGSQVLVLLK pc2****FQSCGIK pc2****NGLEENFCR pc2****G3XAK1 NP3****CGPLMDCR pc2****WDAQIPHQHR pc3****NPDGSEAPWCFTLRPGMR pc3****QEATTVSCFR pc2****SCWPAVFTR pc2
rs3197999 ALT****WPAVFTR pc2
rs3197999 REF**

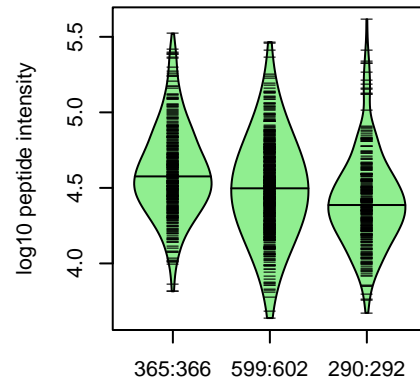
Locus: 92 (Sort: 109)
Status: Not replicated
80% power: Yes
SNP: 3:49260646:T:C
rsID: rs4955427
UniProtID: G3XAK1
HGNC gene: MST1
Type: Cis-pQTL

MMP3 [cis]

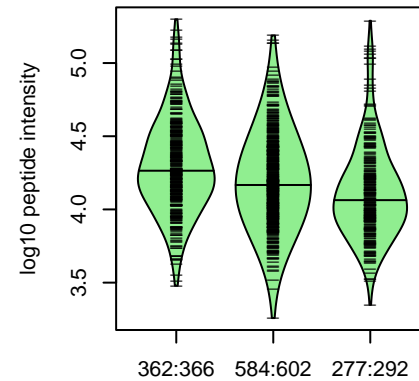
11:102687418:T:C_C
 $p = 1.1e-18$, $\beta = -0.339$, $N = 1255$

IVNYTPDLPK pc2

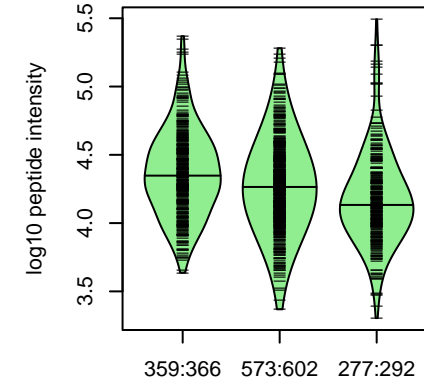
11:102687418:T:C_C
 $p = 7.5e-19$, $\beta = -0.341$, $N = 1246$

VWEEVTLTFSR pc2

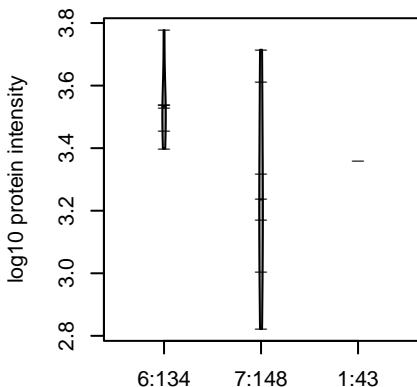
11:102687418:T:C_C
 $p = 2.4e-18$, $\beta = -0.336$, $N = 1254$

LDSDTLEVMR pc2

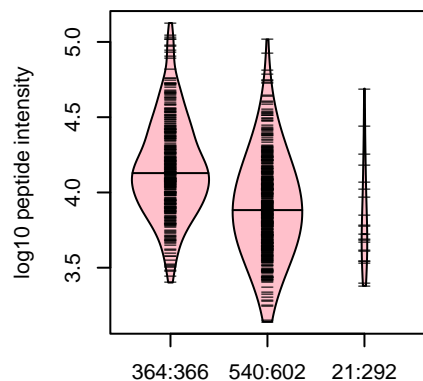
11:102687418:T:C_C
 $p = 2e-16$, $\beta = -0.321$, $N = 1223$

DLVFIFK pc2

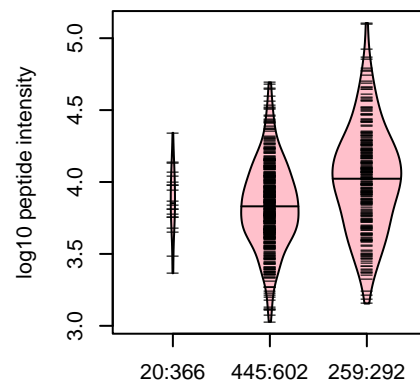
11:102687418:T:C_C
 $p = 3.7e-15$, $\beta = -0.308$, $N = 1209$

P08254 NP5

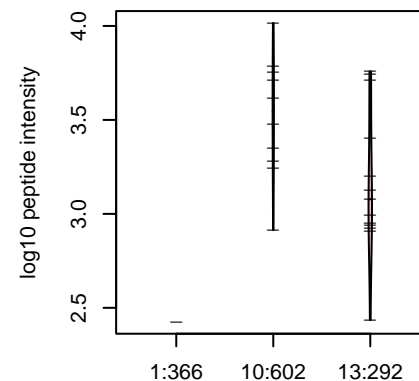
rs10791596
 $p = 0.15$, $\beta = -0.538$, $N = 14$

**YLENYDLEK pc2
rs679620 ALT**

11:102687418:T:C_C
 $p = 3.3e-183$, $\text{model} = \text{DOM}$, $N = 925$

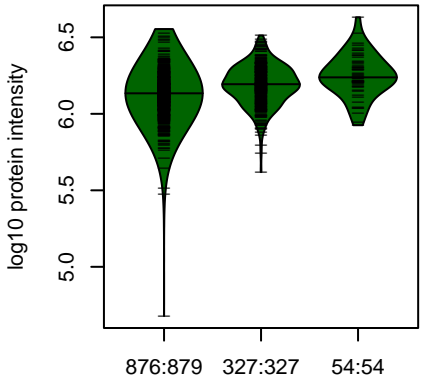
**YLENYDLK pc2
rs679620 REF**

11:102687418:T:C_C
 $p = 3e-140$, $\text{model} = \text{REC}$, $N = 724$

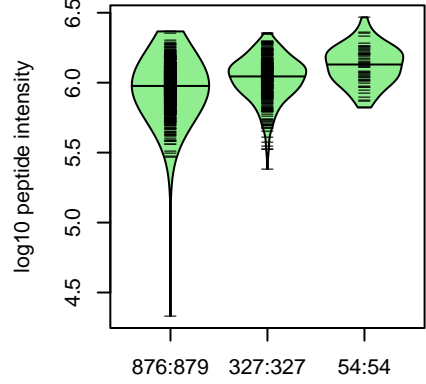
**YLENYDLKK pc3
rs679620 REF**

11:102687418:T:C_C
 $p = 0.00088$, $\text{model} = \text{DOM}$, $N = 24$

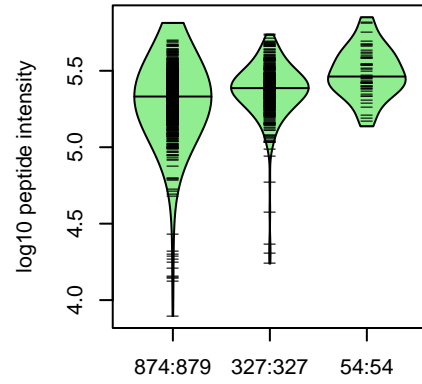
Locus: 93 (Sort: 110)
 Status: Not replicated
 80% power: No
 SNP: 11:102687418:T:C
 rsID: rs10791596
 UniProtID: P08254
 HGNC gene: MMP3
 Type: Cis-pQTL

COLEC10 [trans]

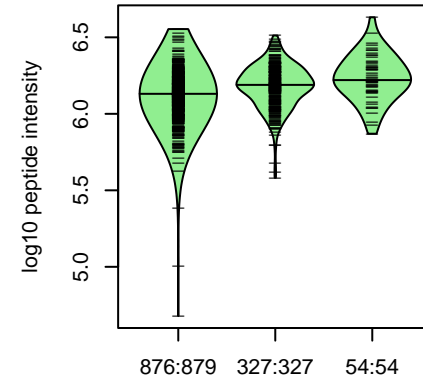
2:3640142:C:T_C
 $p = 1.2e-18$, $\beta = 0.437$, $N = 1257$

FVGQLDISIAR pc2

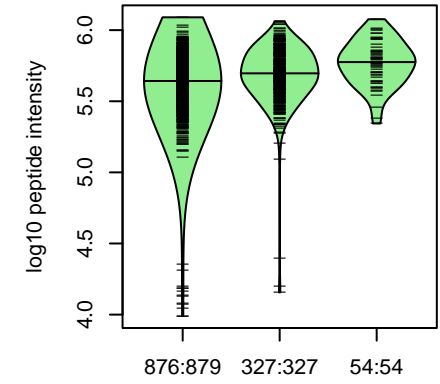
2:3640142:C:T_C
 $p = 2.9e-19$, $\beta = 0.444$, $N = 1257$

AGTVDCGR pc2

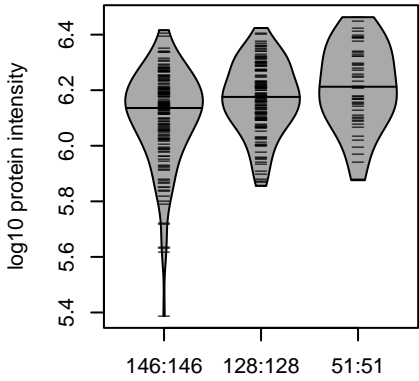
2:3640142:C:T_C
 $p = 4.5e-17$, $\beta = 0.417$, $N = 1255$

VFIGVNDLER pc2

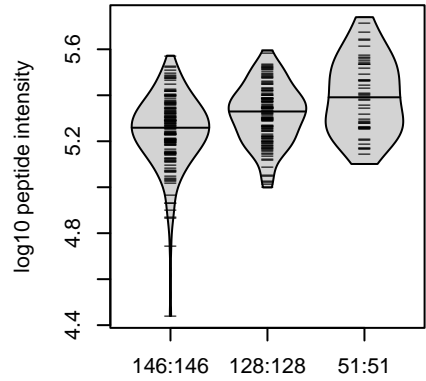
2:3640142:C:T_C
 $p = 5.3e-16$, $\beta = 0.402$, $N = 1257$

DEAANTLIADYVAK pc2

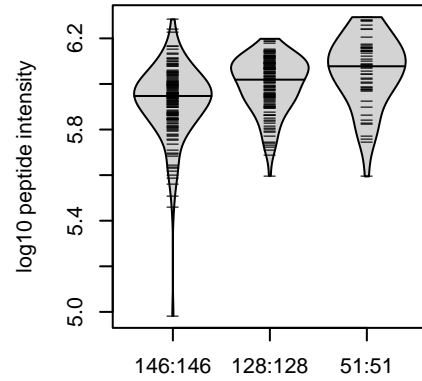
2:3640142:C:T_C
 $p = 1.7e-11$, $\beta = 0.335$, $N = 1257$

Q9Y6Z7 NP5

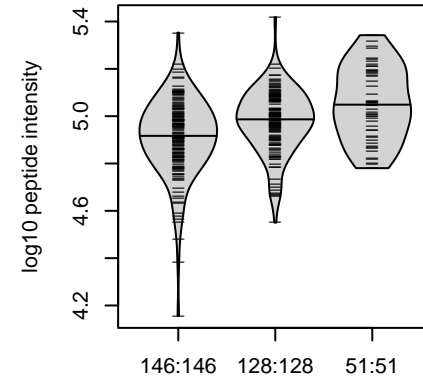
rs6542680
 $p = 0.0031$, $\beta = 0.223$, $N = 325$

AGTVDCGR pc2

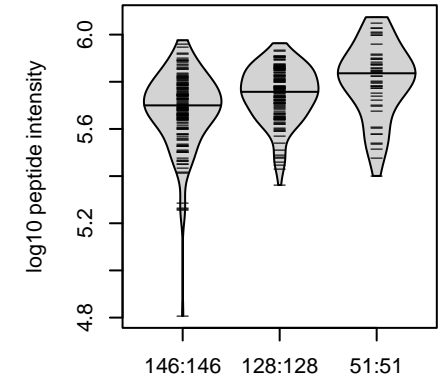
rs6542680
 $p = 1.1e-05$, $\beta = 0.329$, $N = 325$

FVGQLDISIAR pc2

rs6542680
 $p = 1.4e-05$, $\beta = 0.326$, $N = 325$

ESLTHCR pc2

rs6542680
 $p = 6.2e-05$, $\beta = 0.301$, $N = 325$

DEAANTLIADYVAK pc2

rs6542680
 $p = 0.00012$, $\beta = 0.289$, $N = 325$

Locus: 94 (Sort: 111)

Status: Not replicated

80% power: No

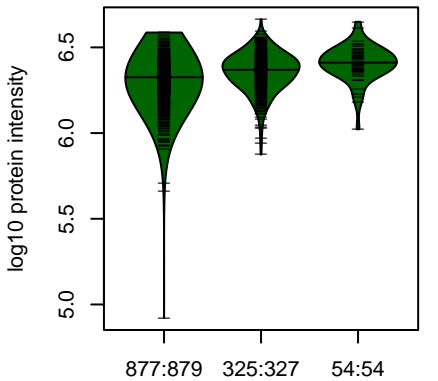
SNP: 2:3640142:C:T

rsID: rs6542680

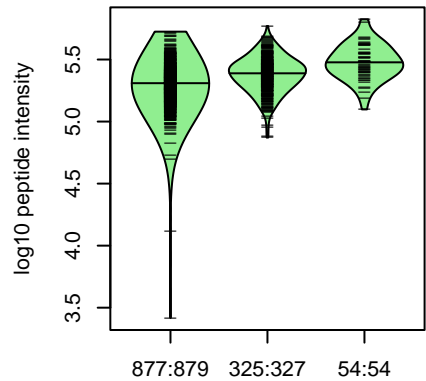
UniProtID: Q9Y6Z7

HGNC gene: COLEC10

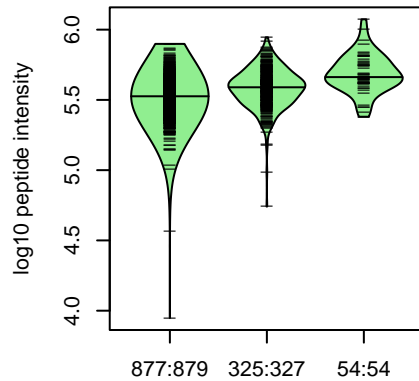
Type: Trans-pQTL

COLEC11 [cis]

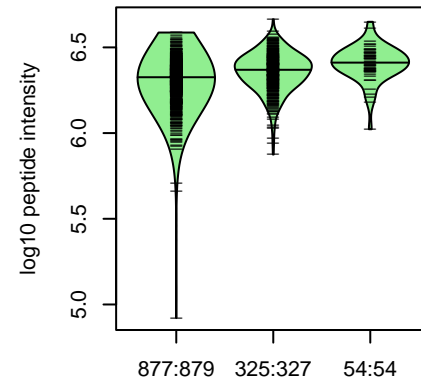
2:3640142:C:T_C
 $p = 4.3e-17$, $\beta = 0.417$, $N = 1256$

YADAQLSCQGR pc2

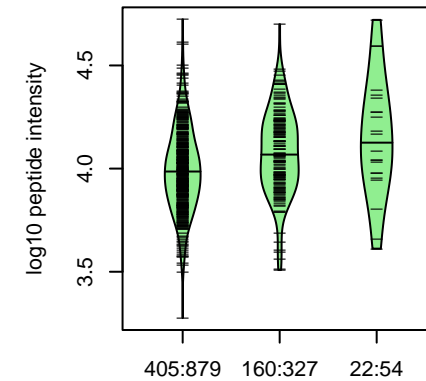
2:3640142:C:T_C
 $p = 1.5e-25$, $\beta = 0.515$, $N = 1256$

DEAANGLMAAYLAQAGLAR pc3

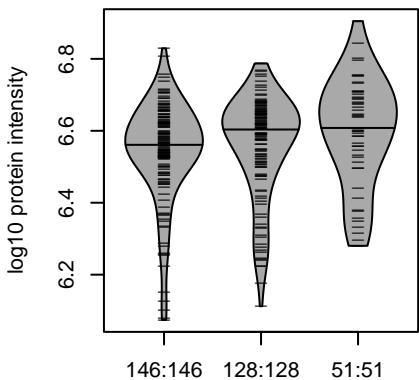
2:3640142:C:T_C
 $p = 1.3e-23$, $\beta = 0.494$, $N = 1256$

VFIGINDLEK pc2

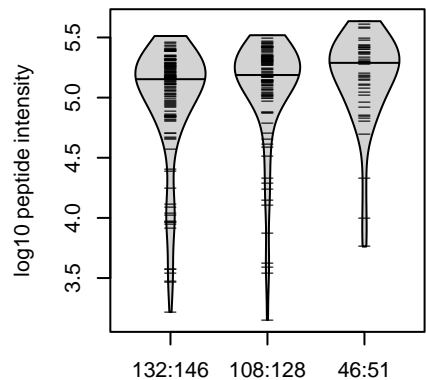
2:3640142:C:T_C
 $p = 4.3e-17$, $\beta = 0.417$, $N = 1256$

GTLSMPKDEAANGLMAAYLAQAGLA

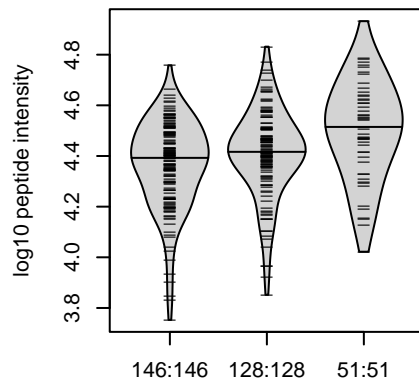
2:3640142:C:T_C
 $p = 9.5e-07$, $\beta = 0.362$, $N = 587$

Q9BWP8 NP2

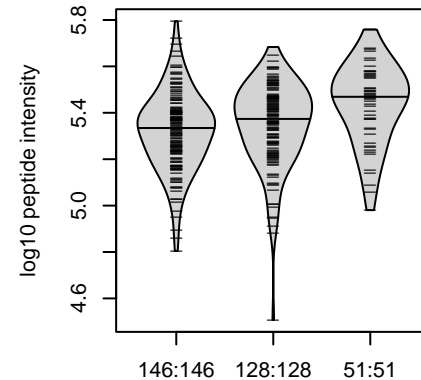
rs6542680
 $p = 0.011$, $\beta = 0.191$, $N = 325$

AIGEMDNQVSQLTSELK pc2

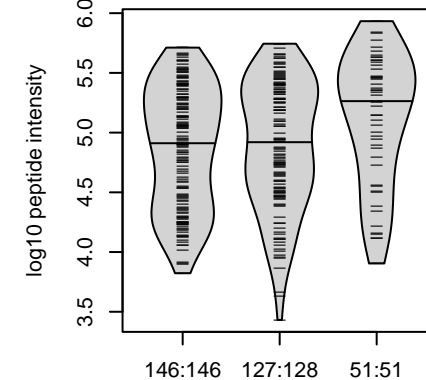
rs6542680
 $p = 5e-04$, $\beta = 0.276$, $N = 286$

GTLSMPKDEAANGLMAAYLAQAGLAI

rs6542680
 $p = 0.0013$, $\beta = 0.243$, $N = 325$

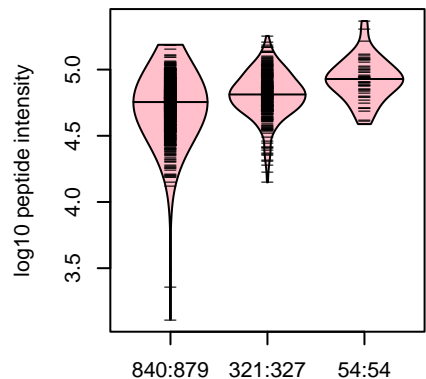
YADAQLSCQGR pc2

rs6542680
 $p = 0.0019$, $\beta = 0.234$, $N = 325$

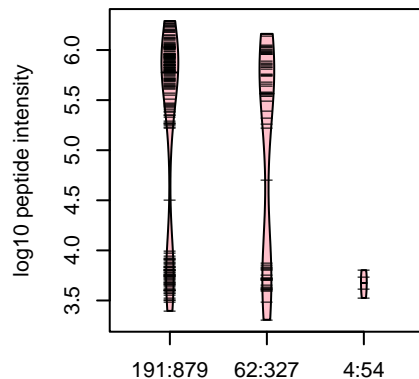
DEAANGLMAAYLAQAGLAR pc2

rs6542680
 $p = 0.0051$, $\beta = 0.212$, $N = 324$

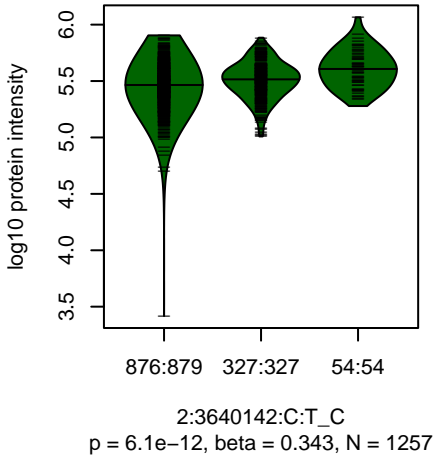
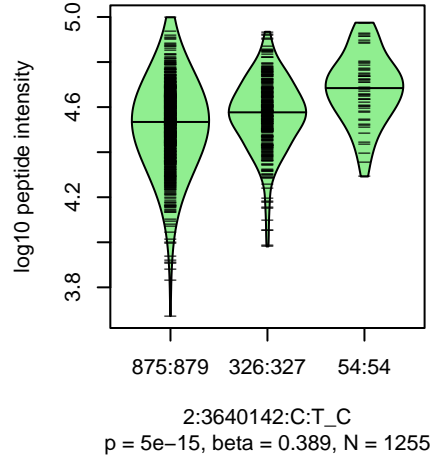
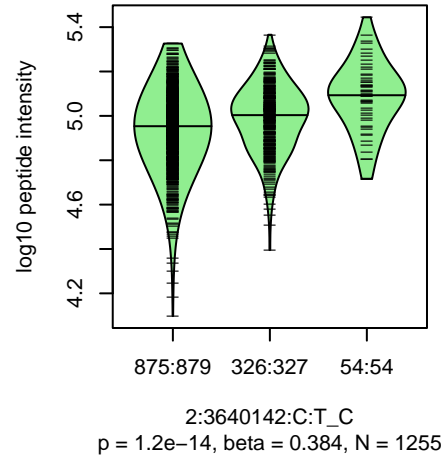
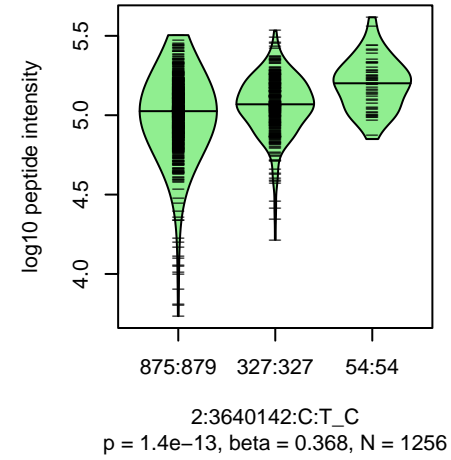
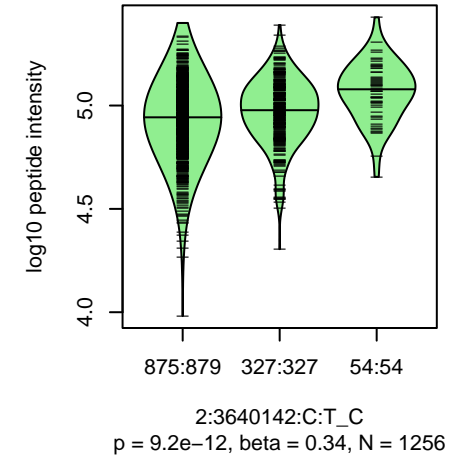
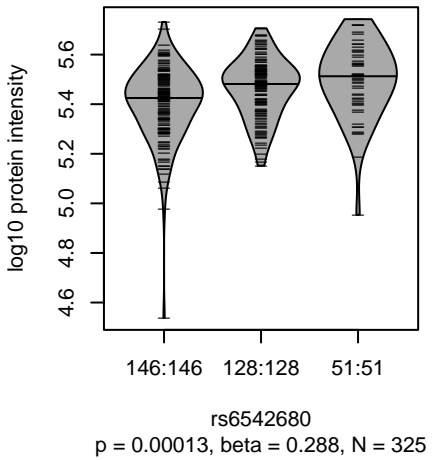
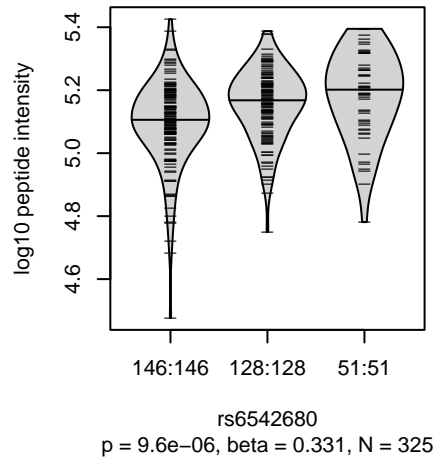
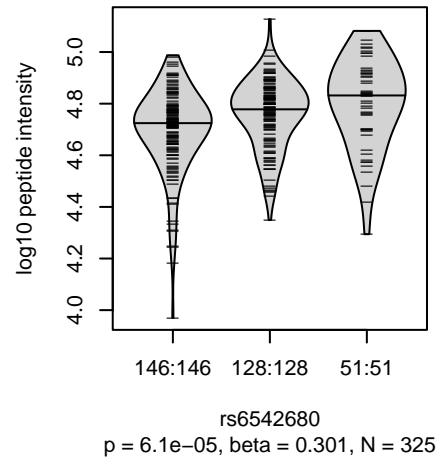
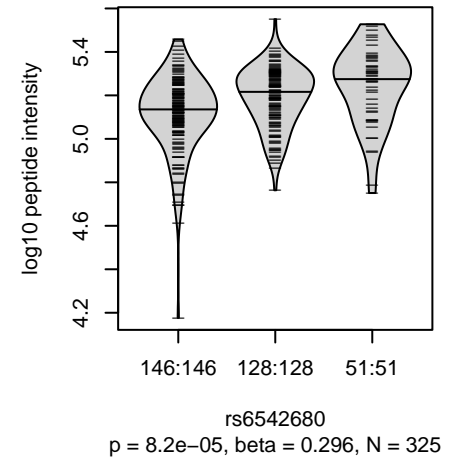
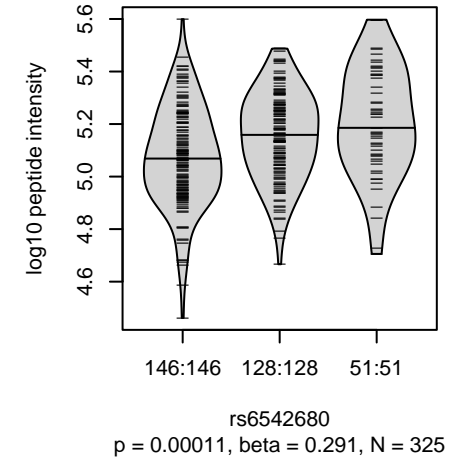
Locus: 94 (Sort: 112)
 Status: Not replicated
 80% power: No
 SNP: 2:3640142:C:T
 rsID: rs6542680
 UniProtID: Q9BWP8
 HGNC gene: COLEC11
 Type: Cis-pQTL

**EGAFVYSDHSPMR pc2
rs7567833 REF**

2:3640142:C:T_C
 $p = 0.012$, model = REC, $N = 1215$

**EGAFVYSDR pc2
rs7567833 ALT**

2:3640142:C:T_C
 $p = 0.015$, model = DOM, $N = 257$

ANGPTL6 [trans]**QDGSVNFFTTWQHYK pc3****QAGHEQSGVYELR pc3****ATPEAANASELAALR pc2****FTGAVCWSGPASTR pc2****Q8NI99 NP5****QAGHEQSGVYELR pc3****LGQYHGDAGDSLWHNDK pc4****ATPEAANASELAALR pc2****MLDPAPEPQRDQTR pc3**

Locus: 94 (Sort: 113)

Status: Replicated

80% power: No

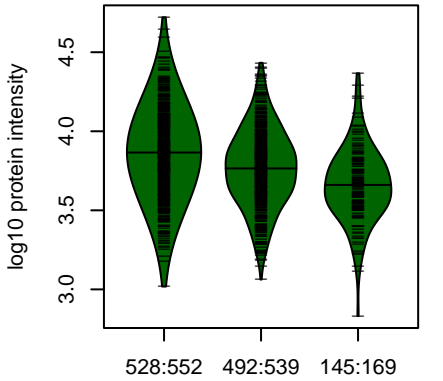
SNP: 2:3640142:C:T

rsID: rs6542680

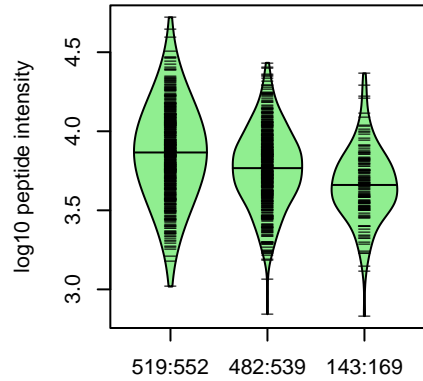
UniProtID: Q8NI99

HGNC gene: ANGPTL6

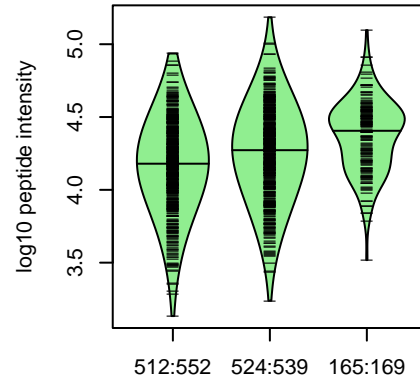
Type: Trans-pQTL

CFHR4 [cis]

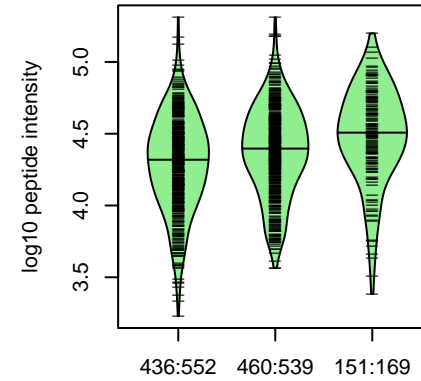
1:196821817:G:A_G
 $p = 1.2e-18$, $\beta = -0.369$, $N = 1165$

FCDMPVFENSR pc2

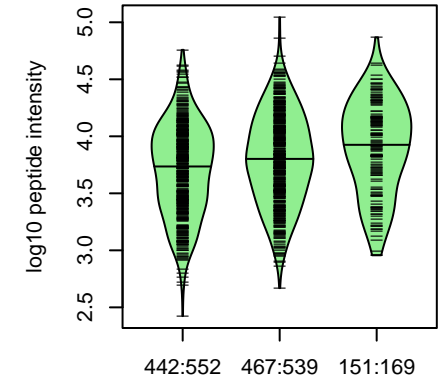
1:196821817:G:A_G
 $p = 9.5e-19$, $\beta = -0.373$, $N = 1144$

TGDTIEFMCK pc2

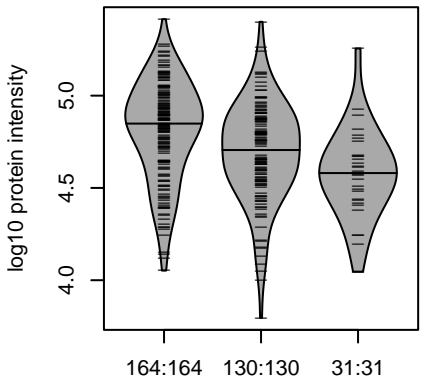
1:196821817:G:A_G
 $p = 7e-15$, $\beta = 0.319$, $N = 1201$

VYVPQSR pc2

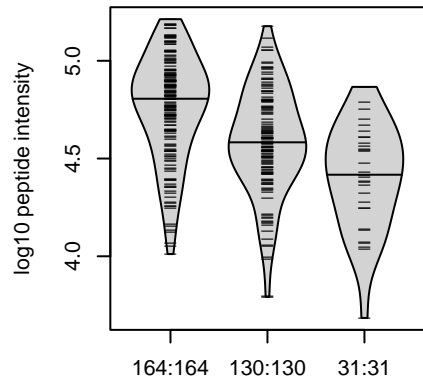
1:196821817:G:A_G
 $p = 2.3e-10$, $\beta = 0.277$, $N = 1047$

CIHPCIITEENMNK pc3

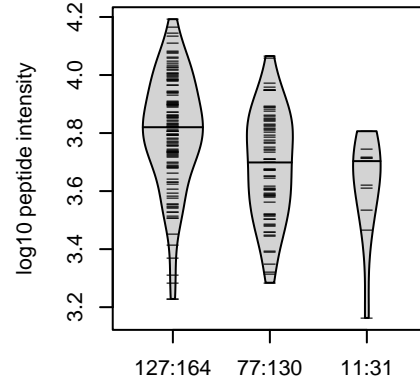
1:196821817:G:A_G
 $p = 1.3e-07$, $\beta = 0.231$, $N = 1060$

Q92496 NP5

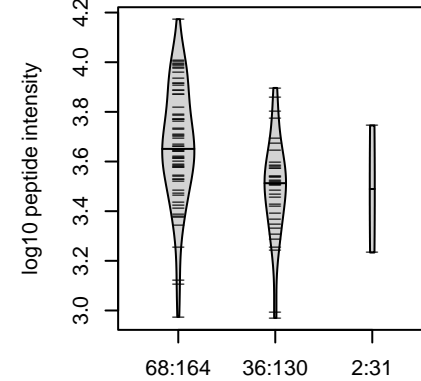
rs12142766
 $p = 1.3e-05$, $\beta = -0.356$, $N = 325$

FCDMPVFENSR pc2

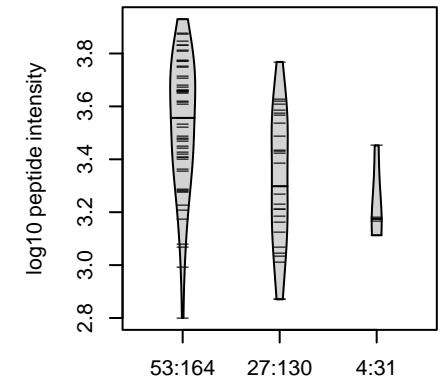
rs12142766
 $p = 2.9e-09$, $\beta = -0.482$, $N = 325$

PCEFPEIQHGHLYYENTR pc4

rs12142766
 $p = 2.6e-05$, $\beta = -0.467$, $N = 215$

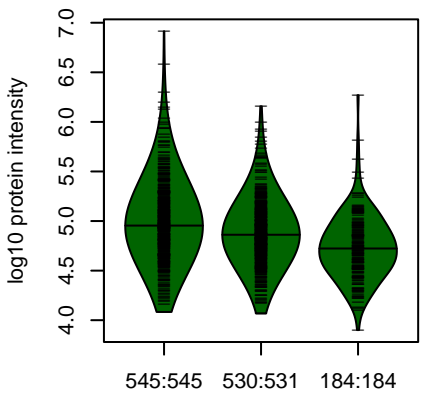
YVTCSNGDWSEPPR pc2

rs12142766
 $p = 0.00017$, $\beta = -0.658$, $N = 106$

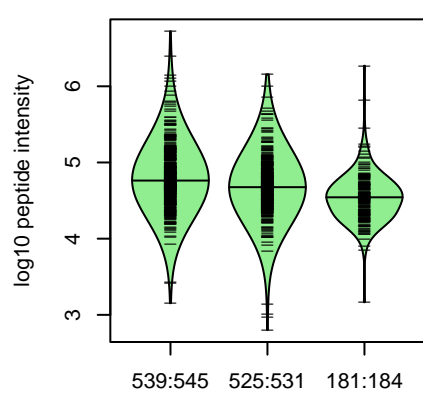
VEYQCQSYELQGSK pc2

rs12142766
 $p = 0.00018$, $\beta = -0.654$, $N = 84$

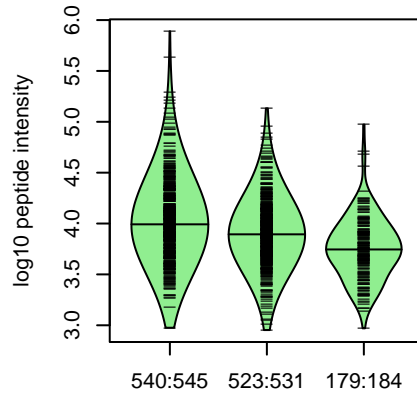
Locus: 95 (Sort: 114)
 Status: Replicated
 80% power: Yes
 SNP: 1:196821817:G:A
 rsID: rs12142766
 UniProtID: Q92496
 HGNC gene: CFHR4
 Type: Cis-pQTL

PLA2G2A [cis]

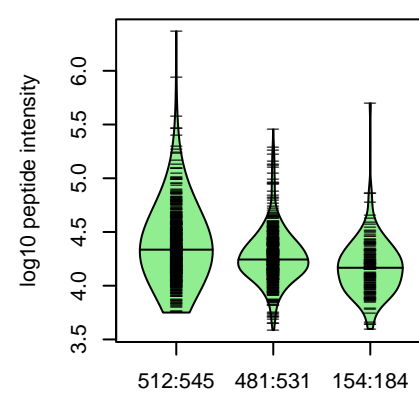
1:20301781:A:C_C
 $p = 1.6e-18$, $\beta = -0.344$, $N = 1259$

SQLCECDK pc2

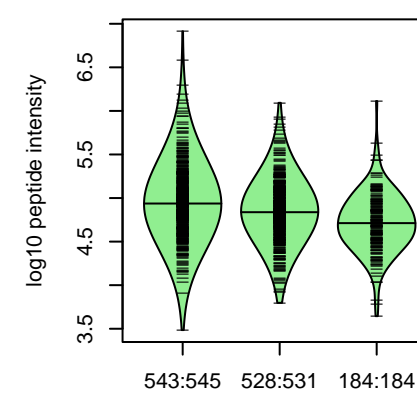
1:20301781:A:C_C
 $p = 1.3e-21$, $\beta = -0.376$, $N = 1245$

CCVTHDCCYK pc3

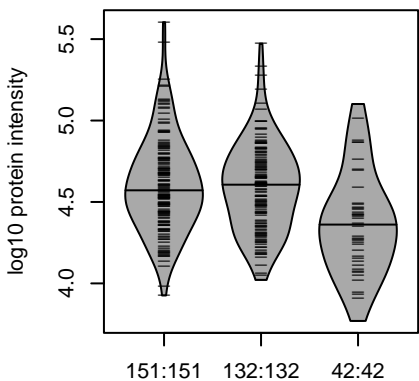
1:20301781:A:C_C
 $p = 2.6e-20$, $\beta = -0.365$, $N = 1242$

YQYYSNK pc2

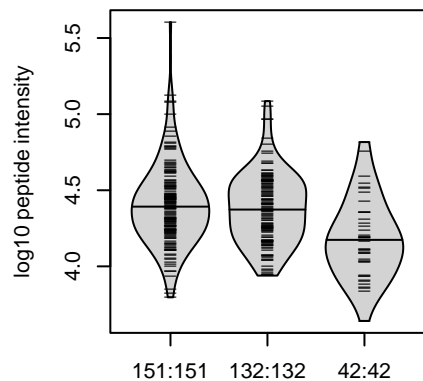
1:20301781:A:C_C
 $p = 2.5e-16$, $\beta = -0.342$, $N = 1147$

AAATCFAR pc2

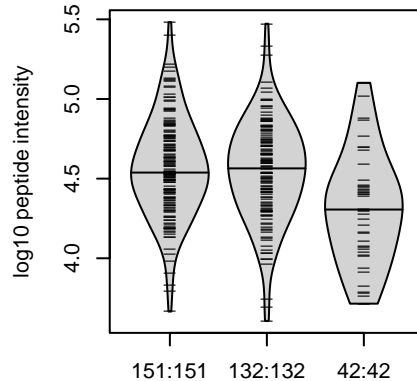
1:20301781:A:C_C
 $p = 1.1e-15$, $\beta = -0.316$, $N = 1255$

P14555 NP4

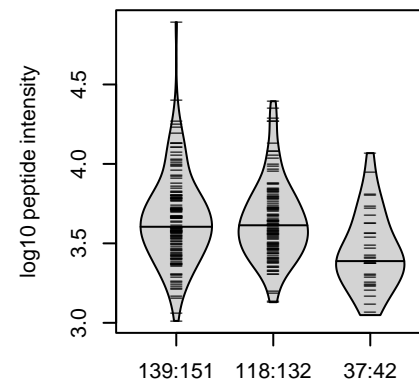
rs3767221
 $p = 0.00043$, $\beta = -0.273$, $N = 325$

SQLCECDK pc2

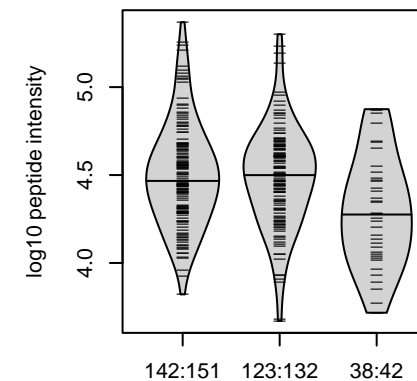
rs3767221
 $p = 0.00019$, $\beta = -0.292$, $N = 325$

EAALSYGFYGCHCGVGGR pc3

rs3767221
 $p = 0.00059$, $\beta = -0.269$, $N = 325$

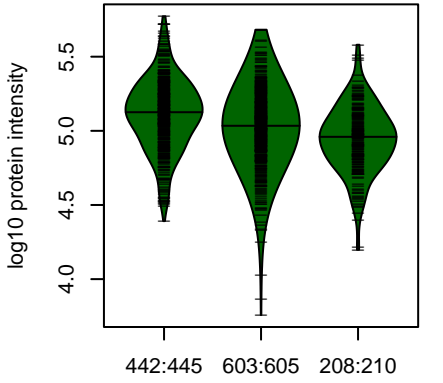
CCVTHDCCYK pc3

rs3767221
 $p = 0.00071$, $\beta = -0.279$, $N = 294$

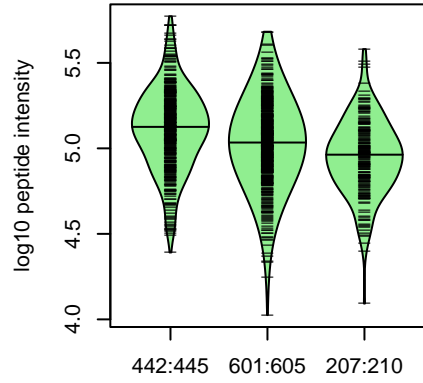
AAATCFAR pc2

rs3767221
 $p = 0.0036$, $\beta = -0.238$, $N = 303$

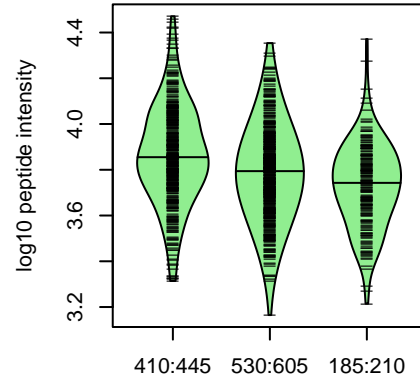
Locus: 96 (Sort: 115)
 Status: Not replicated
 80% power: No
 SNP: 1:20301781:A:C
 rsID: rs3767221
 UniProtID: P14555
 HGNC gene: PLA2G2A
 Type: Cis-pQTL

ADAMDEC1 [cis]

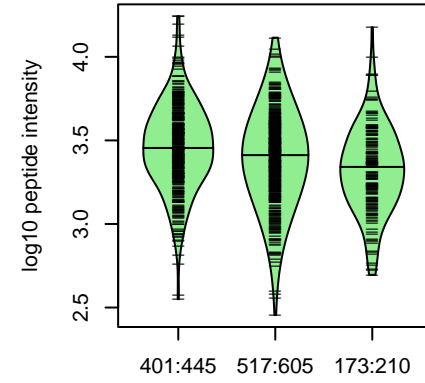
8:24240670:T:C_C
 $p = 2.9e-18$, $\beta = -0.347$, $N = 1253$

VVPSASTTFDNFLR pc2

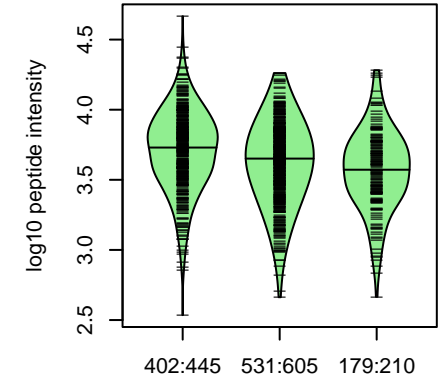
8:24240670:T:C_C
 $p = 1.3e-17$, $\beta = -0.341$, $N = 1250$

WHSSNLGK pc2

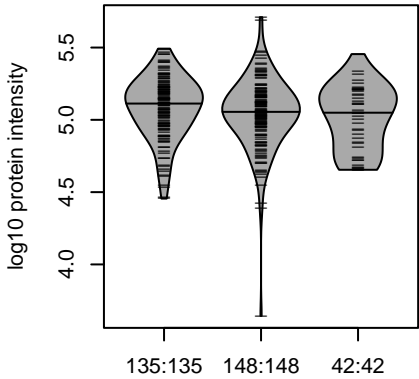
8:24240670:T:C_C
 $p = 2.4e-15$, $\beta = -0.331$, $N = 1125$

YIDLVLVDNAFYK pc2

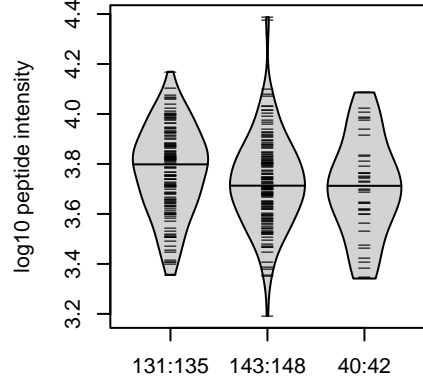
8:24240670:T:C_C
 $p = 4.3e-10$, $\beta = -0.269$, $N = 1091$

LKPGTDCGGDAPNHTTE pc3

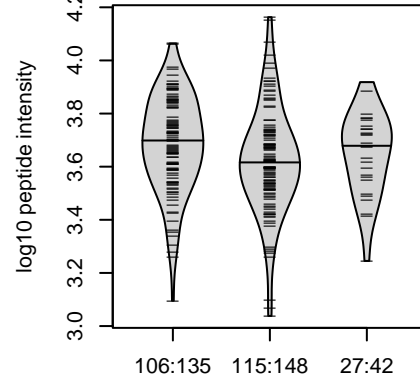
8:24240670:T:C_C
 $p = 7.3e-10$, $\beta = -0.263$, $N = 1112$

O15204 NP3

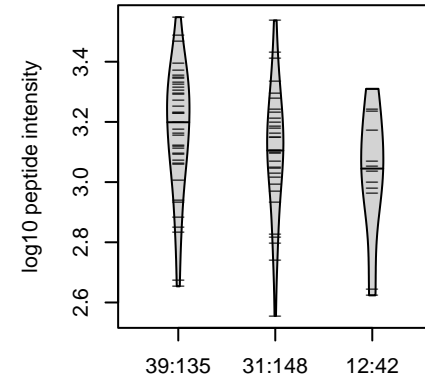
rs9650408
 $p = 0.14$, $\beta = -0.119$, $N = 325$

WHSSNLGK pc2

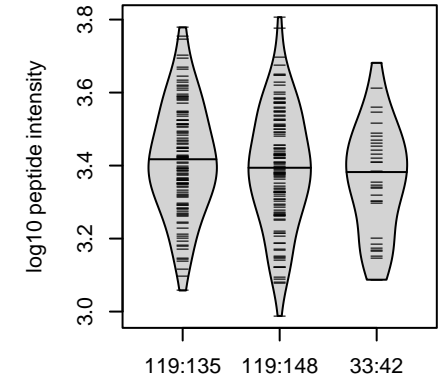
rs9650408
 $p = 0.035$, $\beta = -0.173$, $N = 314$

IHDHAQLLSGISFNRR pc4

rs9650408
 $p = 0.083$, $\beta = -0.164$, $N = 248$

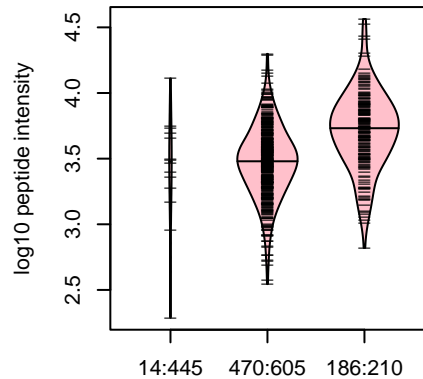
YIDLVLVDNAFYK pc3

rs9650408
 $p = 0.13$, $\beta = -0.226$, $N = 82$

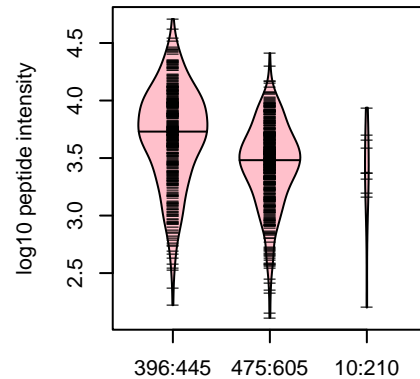
NSVASISTCDGLR pc2

rs9650408
 $p = 0.22$, $\beta = -0.109$, $N = 271$

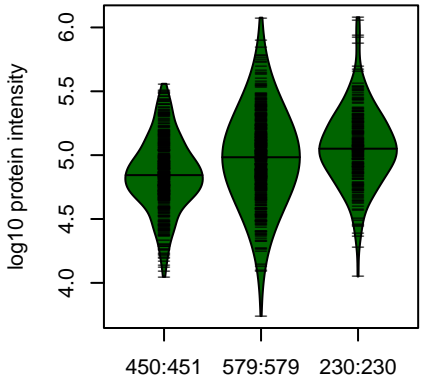
Locus: 97 (Sort: 116)
 Status: Not replicated
 80% power: No
 SNP: 8:24240670:T:C
 rsID: rs9650408
 UniProtID: O15204
 HGNC gene: ADAMDEC1
 Type: Cis-pQTL

**ECTSLCCEALTCK pc2
rs3765124 ALT**

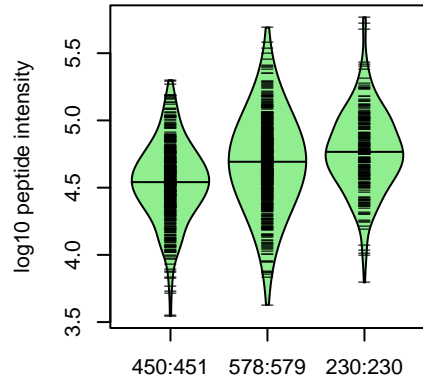
8:24240670:T:C_C
 $p = 5.4e-178$, $\text{model} = \text{REC}$, $N = 670$

**ECTNLCCEALTCK pc2
rs3765124 REF**

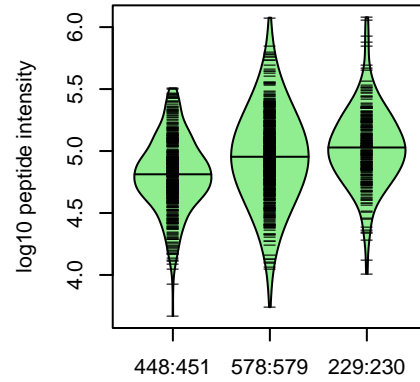
8:24240670:T:C_C
 $p = 2e-110$, $\text{model} = \text{DOM}$, $N = 881$

BPIFB1 [cis]

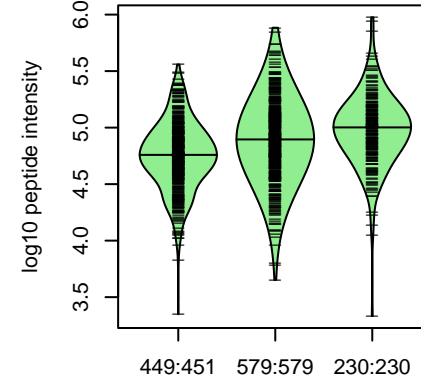
20:31688868:G:C_G
 $p = 3.3e-18$, $\beta = 0.337$, $N = 1259$

ILTQDTPEFFIDQGHAK pc3

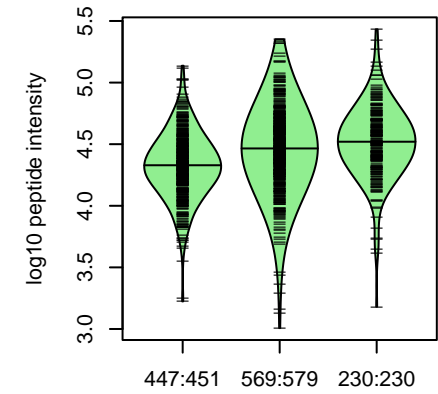
20:31688868:G:C_G
 $p = 1.7e-19$, $\beta = 0.349$, $N = 1258$

LGSTQIVK pc2

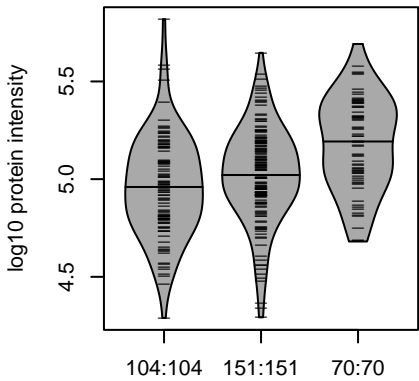
20:31688868:G:C_G
 $p = 4.4e-18$, $\beta = 0.337$, $N = 1255$

ALGFEEAESSLTk pc2

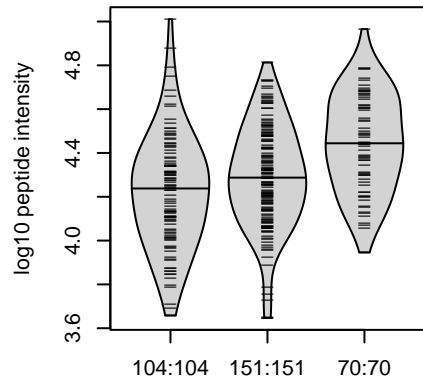
20:31688868:G:C_G
 $p = 6.8e-18$, $\beta = 0.334$, $N = 1258$

MDTSASGPTR pc2

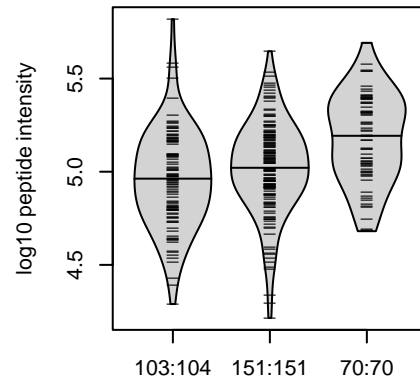
20:31688868:G:C_G
 $p = 6e-16$, $\beta = 0.315$, $N = 1246$

Q8TDL5 NP4

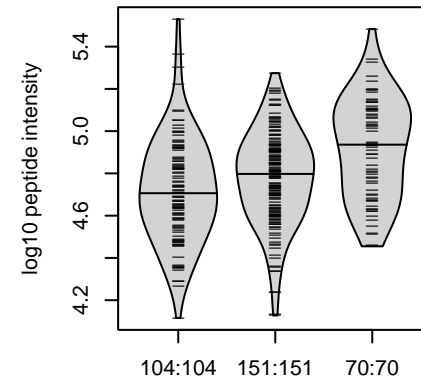
rs761931
 $p = 1.6e-06$, $\beta = 0.355$, $N = 325$

MDTSASGPTR pc2

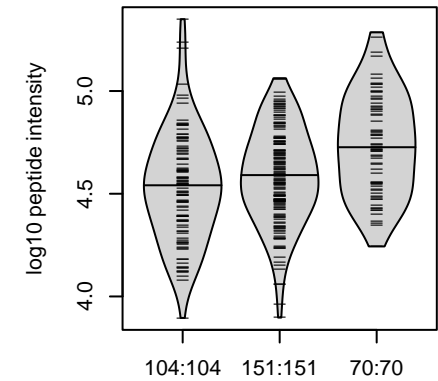
rs761931
 $p = 8.1e-07$, $\beta = 0.367$, $N = 325$

ALGFEEAESSLTk pc2

rs761931
 $p = 2.4e-06$, $\beta = 0.352$, $N = 324$

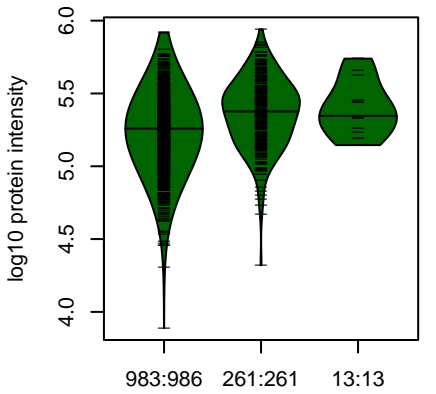
ILTQDTPEFFIDQGHAK pc3

rs761931
 $p = 3.8e-06$, $\beta = 0.344$, $N = 325$

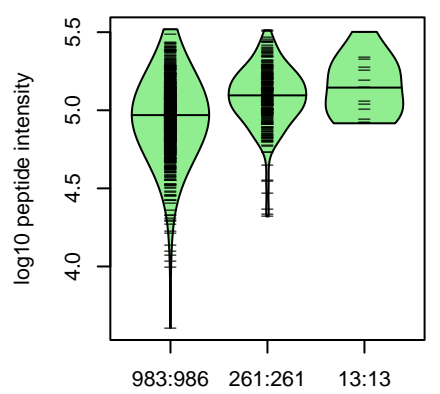
QVMNLLVPSLPNLVK pc2

rs761931
 $p = 6.6e-06$, $\beta = 0.336$, $N = 325$

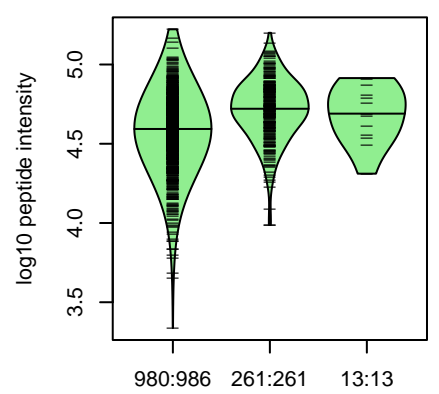
Locus: 98 (Sort: 117)
 Status: Replicated
 80% power: Yes
 SNP: 20:31688868:G:C
 rsID: rs761931
 UniProtID: Q8TDL5
 HGNC gene: BPIFB1
 Type: Cis-pQTL

APMAP [cis]

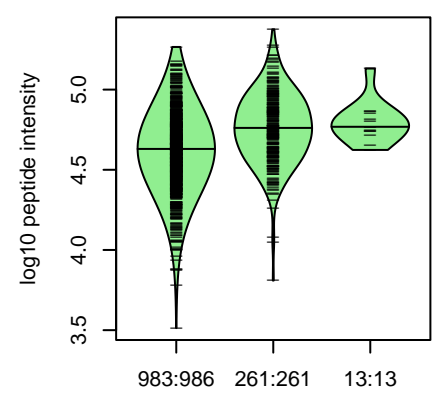
20:24949944:G:C_C
 $p = 4.2e-18$, $\beta = 0.541$, $N = 1257$

LLLSSETPIEGK pc2

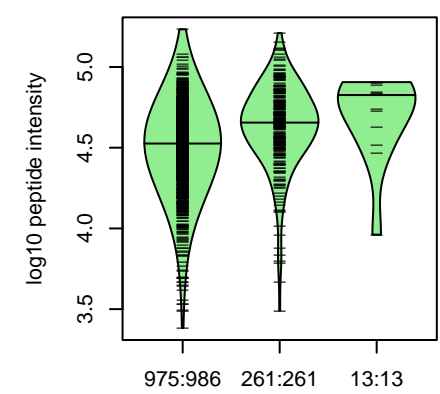
20:24949944:G:C_C
 $p = 2.6e-24$, $\beta = 0.631$, $N = 1257$

EPPLLLGVLHPNTK pc3

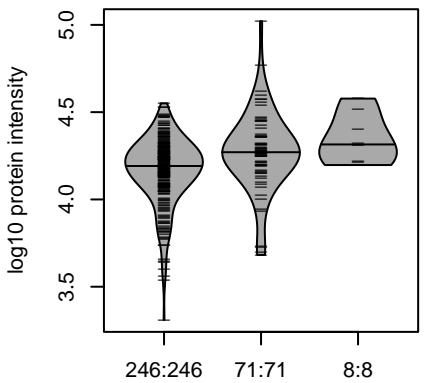
20:24949944:G:C_C
 $p = 1.2e-21$, $\beta = 0.594$, $N = 1254$

YSLVLELSDSGAFR pc2

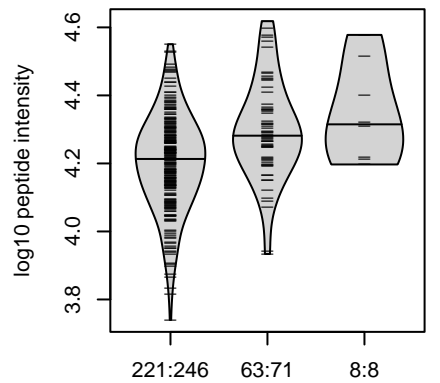
20:24949944:G:C_C
 $p = 4.1e-21$, $\beta = 0.587$, $N = 1257$

LENGEIETIAR pc2

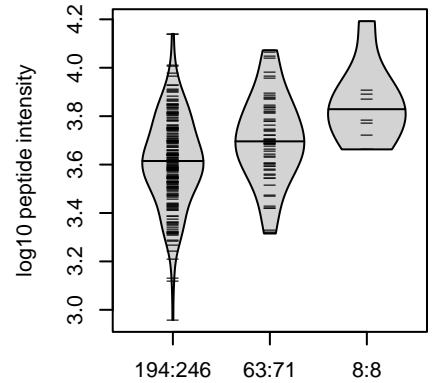
20:24949944:G:C_C
 $p = 1.7e-18$, $\beta = 0.548$, $N = 1249$

Q9HDC9 NP5

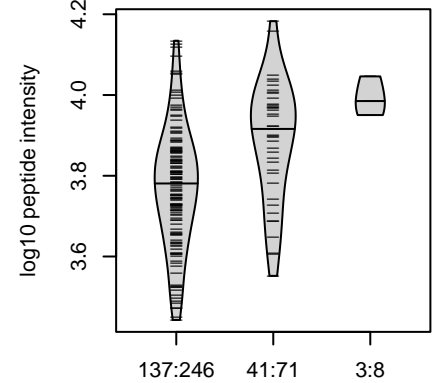
rs6138438
 $p = 9.1e-05$, $\beta = 0.428$, $N = 325$

LLLSSETPIEGK pc2

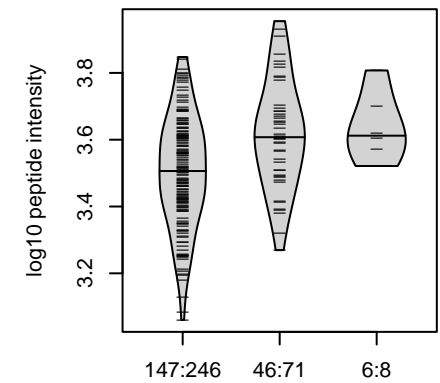
rs6138438
 $p = 3.2e-06$, $\beta = 0.526$, $N = 292$

EPPLLLGVLHPNTK pc3

rs6138438
 $p = 0.00031$, $\beta = 0.416$, $N = 265$

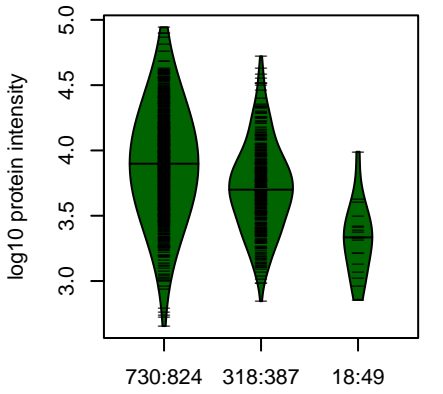
LFSQETVMK pc2

rs6138438
 $p = 0.00034$, $\beta = 0.541$, $N = 181$

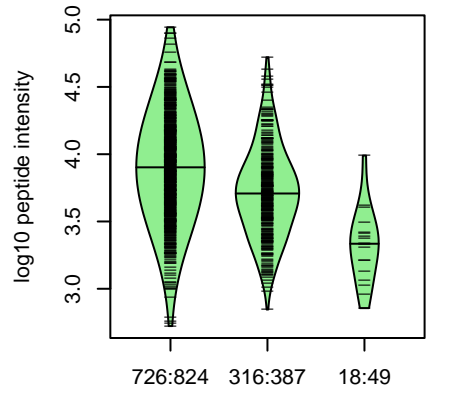
YSLVLELSDSGAFR pc2

rs6138438
 $p = 0.00044$, $\beta = 0.467$, $N = 199$

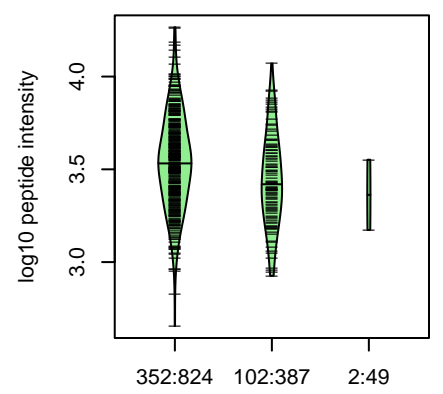
Locus: 99 (Sort: 118)
 Status: Replicated
 80% power: No
 SNP: 20:24949944:G:C
 rsID: rs6138438
 UniProtID: Q9HDC9
 HGNC gene: APMAP
 Type: Cis-pQTL

C19orf33 [cis]

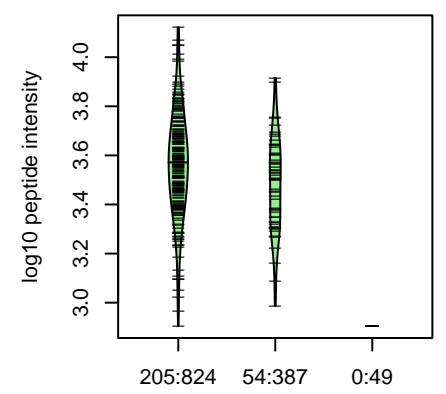
19:38795250:G:A_A
 $p = 6.7e-18$, $\beta = -0.511$, $N = 1066$

SEAGAGPGK pc2

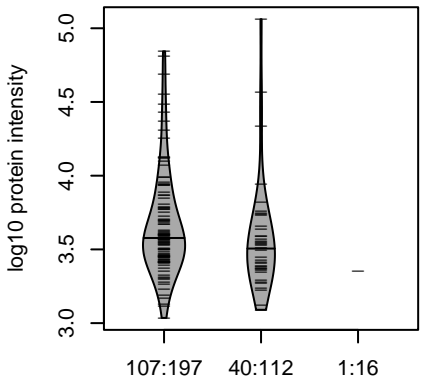
19:38795250:G:A_A
 $p = 1.4e-18$, $\beta = -0.522$, $N = 1060$

QHESIPGK pc2

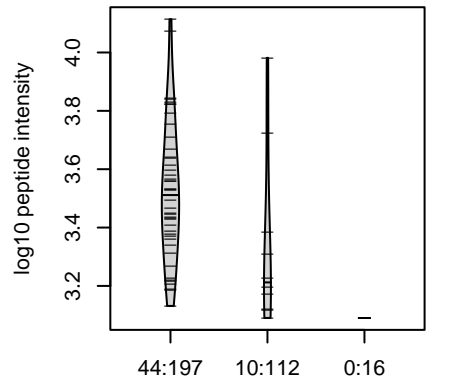
19:38795250:G:A_A
 $p = 0.00029$, $\beta = -0.386$, $N = 456$

PGVGAGHGGDPK pc2

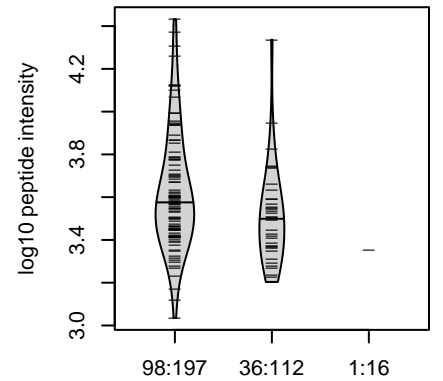
19:38795250:G:A_A
 $p = 0.0079$, $\beta = -0.398$, $N = 259$

Q9GZP8 NP2

rs45437199
 $p = 0.014$, $\beta = -0.426$, $N = 148$

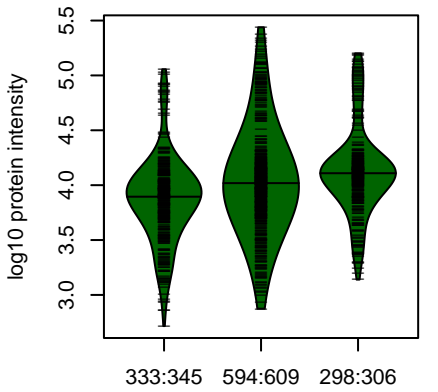
QHESIPGK pc2

rs45437199
 $p = 0.012$, $\beta = -0.823$, $N = 54$

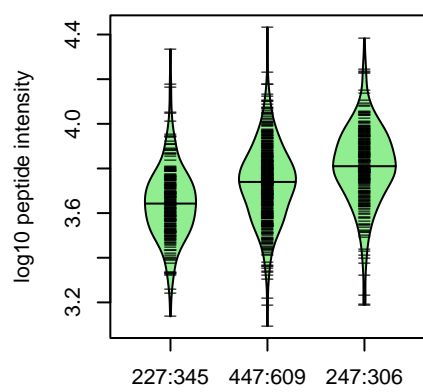
SEAGAGPGK pc2

rs45437199
 $p = 0.013$, $\beta = -0.445$, $N = 135$

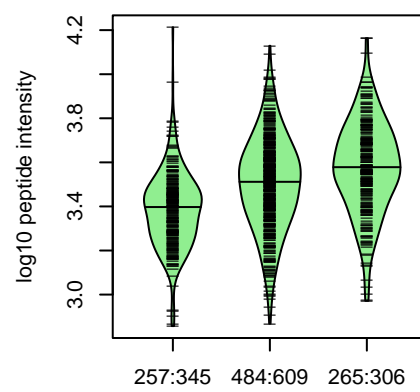
Locus: 100 (Sort: 119)
 Status: Not replicated
 80% power: No
 SNP: 19:38795250:G:A
 rsID: rs45437199
 UniProtID: Q9GZP8
 HGNC gene: C19orf33
 Type: Cis-pQTL

ITGA2 [cis]

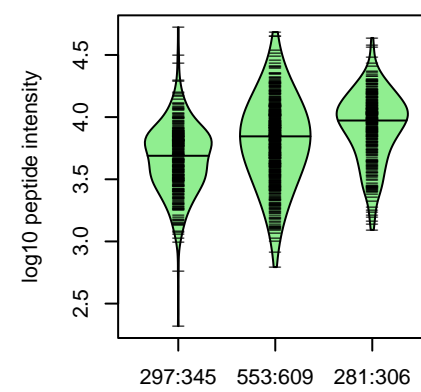
5:52371370:C:T_T
 $p = 7.6e-18$, $\beta = 0.336$, $N = 1225$

VTTGSVPVSMATVIIIHIPQYTK pc3

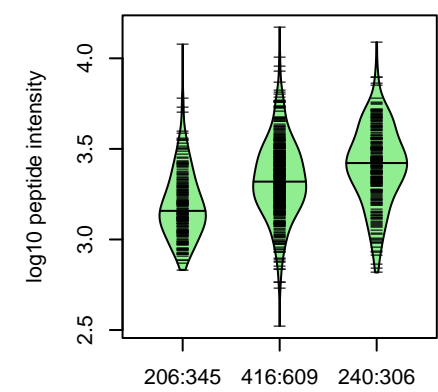
5:52371370:C:T_T
 $p = 1.4e-26$, $\beta = 0.473$, $N = 921$

SVACDVGYPAALK pc2

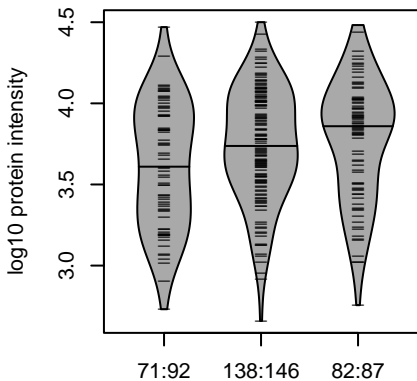
5:52371370:C:T_T
 $p = 5.1e-26$, $\beta = 0.447$, $N = 1006$

VYLFTIK pc2

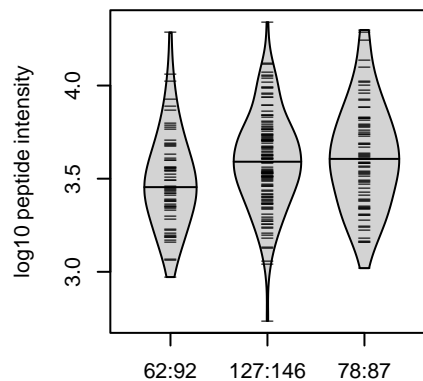
5:52371370:C:T_T
 $p = 5.5e-25$, $\beta = 0.418$, $N = 1131$

AGDISCNADINPLK pc2

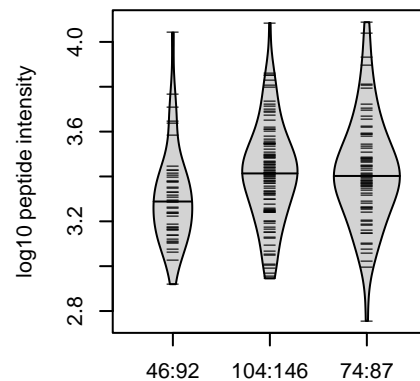
5:52371370:C:T_T
 $p = 3.8e-24$, $\beta = 0.464$, $N = 862$

P17301 NP4

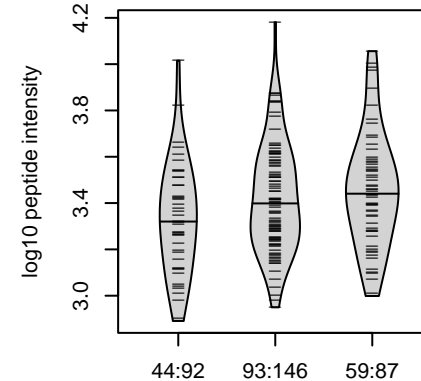
rs12518279
 $p = 0.026$, $\beta = 0.179$, $N = 291$

TQVGLIQYANNPR pc2

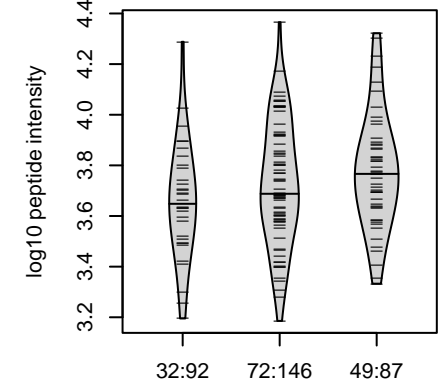
rs12518279
 $p = 0.016$, $\beta = 0.201$, $N = 267$

AGDISCNADINPLK pc2

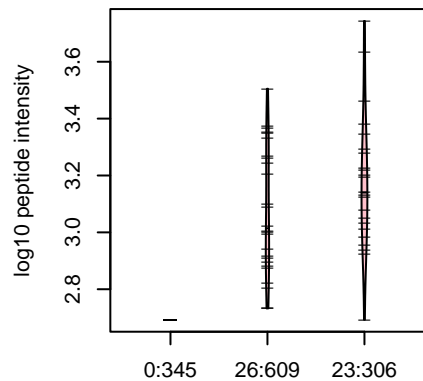
rs12518279
 $p = 0.016$, $\beta = 0.218$, $N = 224$

IPLLYDAEIHLTR pc3

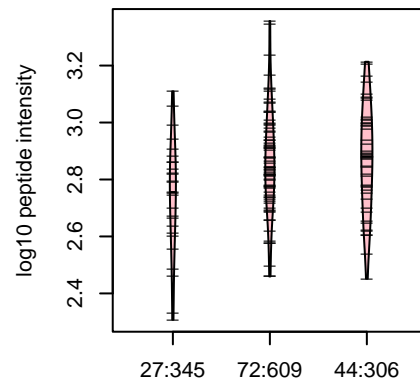
rs12518279
 $p = 0.02$, $\beta = 0.225$, $N = 196$

IGQTSSSVSFK pc2

rs12518279
 $p = 0.03$, $\beta = 0.237$, $N = 153$

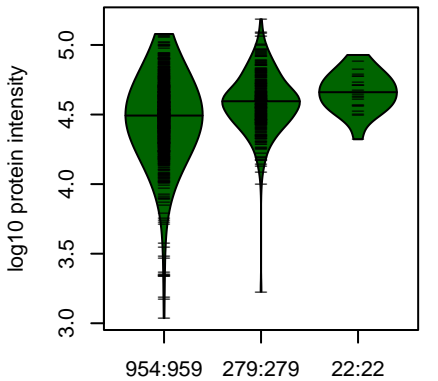
**GILGQHFLGPEGIENR pc3
rs1801106 ALT**

5:52371370:C:T_T
 $p = 2e-07$, $\text{model} = \text{REC}$, $N = 49$

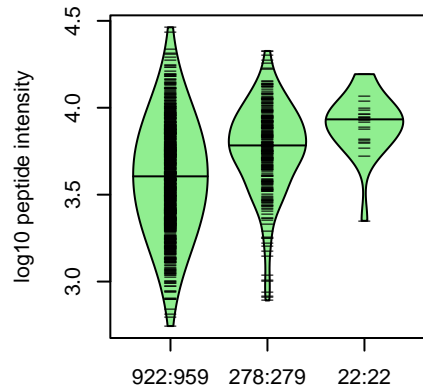
**EGILGQHFLGPEGIENR pc3
rs1801106 REF**

5:52371370:C:T_T
 $p = 0.017$, $\text{model} = \text{REC}$, $N = 143$

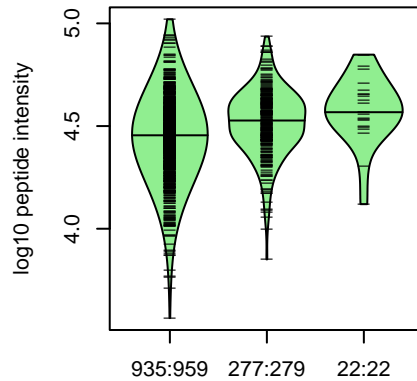
Locus: 101 (Sort: 120)
 Status: Not replicated
 80% power: No
 SNP: 5:52371370:C:T
 rsID: rs12518279
 UniProtID: P17301
 HGNC gene: ITGA2
 Type: Cis-pQTL

HLA-B [cis]

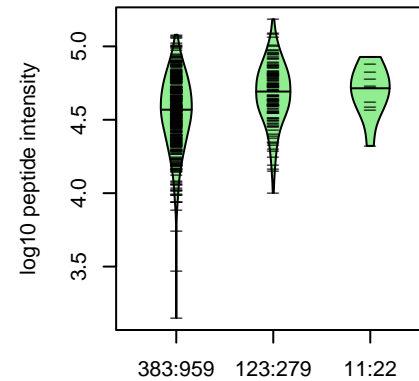
6:32138545:A:C_A
 $p = 7.6e-18$, $\beta = 0.501$, $N = 1255$

SWTAADTAAQITQR pc2

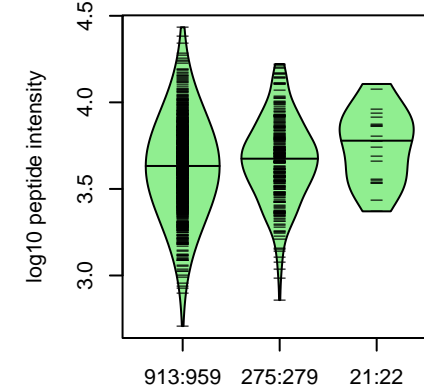
6:32138545:A:C_A
 $p = 9.7e-22$, $\beta = 0.558$, $N = 1222$

FSDAASPR pc2

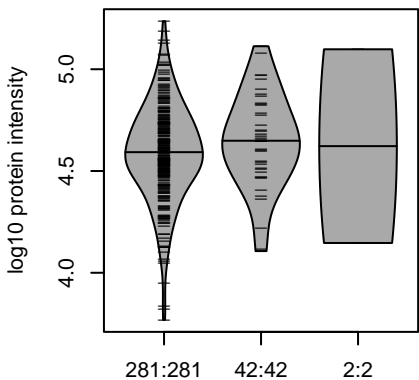
6:32138545:A:C_A
 $p = 5.7e-17$, $\beta = 0.49$, $N = 1234$

DYIALNEDLR pc2

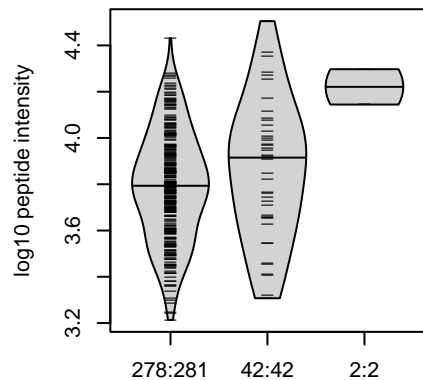
6:32138545:A:C_A
 $p = 9.4e-09$, $\beta = 0.499$, $N = 517$

DGEDQTQDTELVETRPAGDR pc3

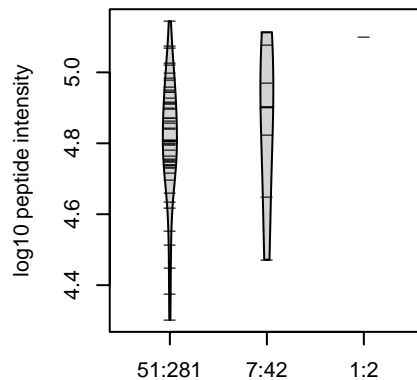
6:32138545:A:C_A
 $p = 0.00015$, $\beta = 0.227$, $N = 1209$

P01889 NP2

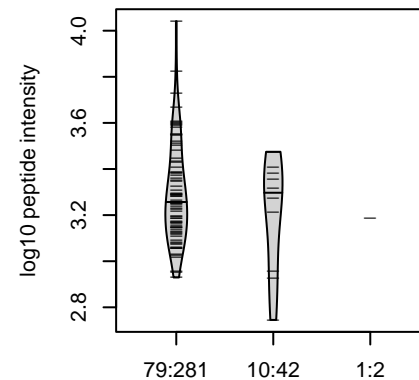
rs3130283
 $p = 0.16$, $\beta = 0.211$, $N = 325$

SWTAADTAAQITQR pc2

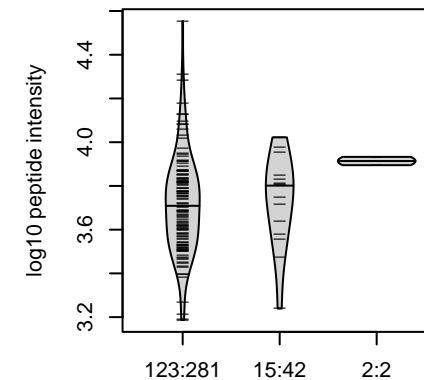
rs3130283
 $p = 0.01$, $\beta = 0.382$, $N = 322$

DYIALNEDLR pc2

rs3130283
 $p = 0.11$, $\beta = 0.49$, $N = 59$

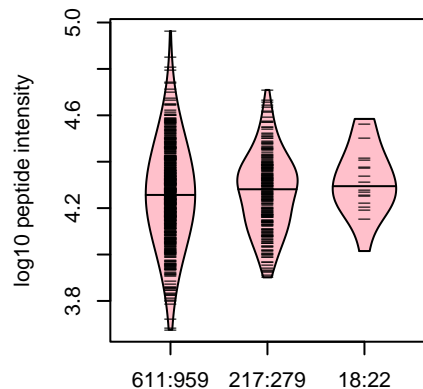
THVTHHPISDHEATLR pc3

rs3130283
 $p = 0.18$, $\beta = -0.371$, $N = 90$

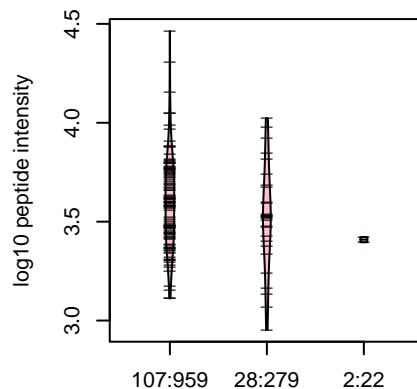
APWIEQEGPEYWDR pc2

rs3130283
 $p = 0.23$, $\beta = 0.262$, $N = 140$

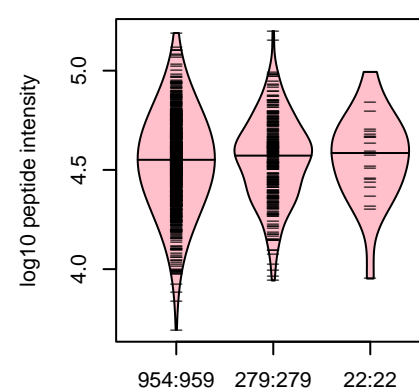
Locus: 102 (Sort: 121)
 Status: Not replicated
 80% power: No
 SNP: 6:32138545:A:C
 rsID: rs3130283
 UniProtID: P01889
 HGNC gene: HLA-B
 Type: Cis-pQTL

**FISVG YVDDTQFVR pc2
rs1050437 REF**

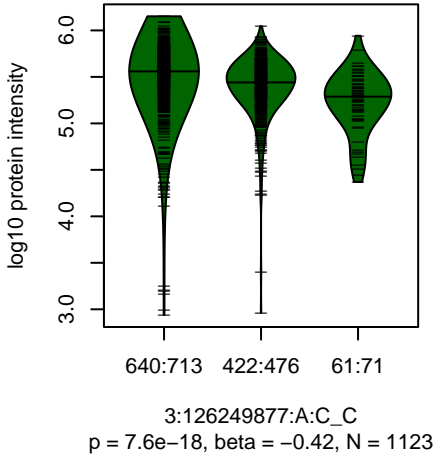
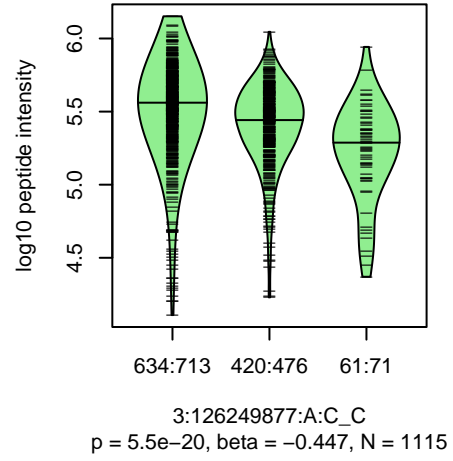
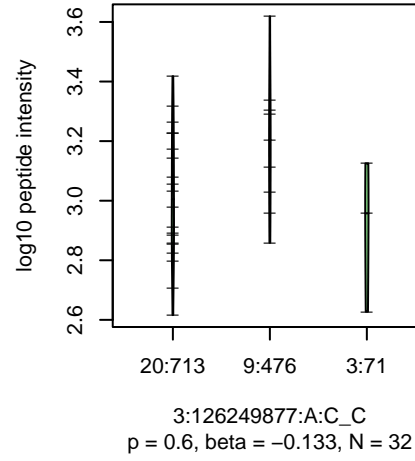
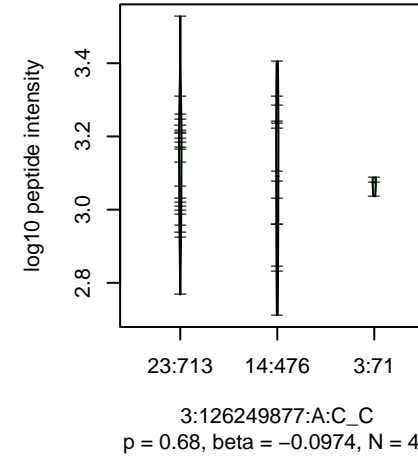
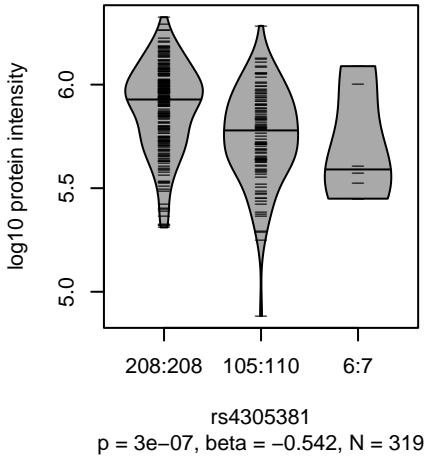
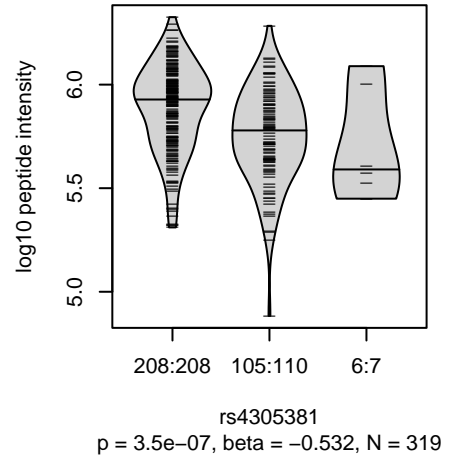
6:32138545:A:C_A
 $p = 3.1e-06$, model = REC, $N = 846$

**GEPRFISVG YVDDTQFVR pc3
rs1050437 REF**

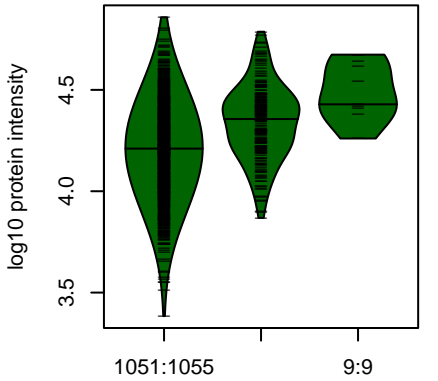
6:32138545:A:C_A
 $p = 0.6$, model = REC, $N = 137$

**WAAVVVPSGEEQR pc2
rs707908;rs1736924 ALT**

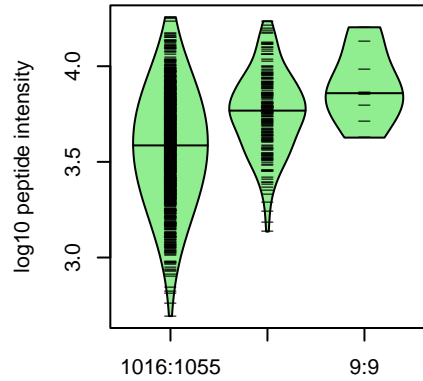
6:32138545:A:C_A
 $p = 0.6$, model = REC, $N = 1255$

MAN1C1 [trans]**ELAAQITK pc2****LLPAFNTPTGIPK pc2****TQQPGLVVAEIAGHAPAR pc3****Q9NR34 NP2****ELAAQITK pc2**

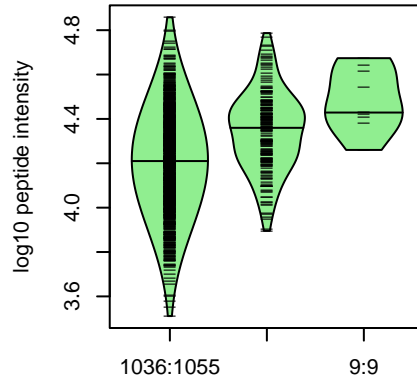
Locus: 103 (Sort: 122)
 Status: Replicated
 80% power: Yes
 SNP: 3:126249877:A:C
 rsID: rs4305381
 UniProtID: Q9NR34
 HGNC gene: MAN1C1
 Type: Trans-pQTL

HEG1 [cis]

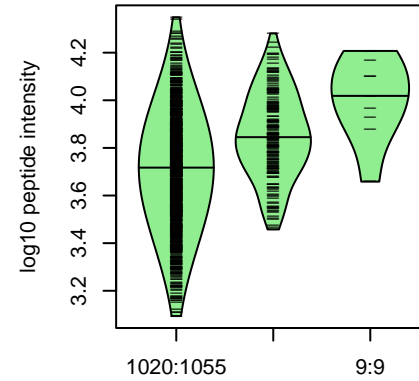
3:124756589:C:T_T
 $p = 7.7e-18$, $\beta = 0.606$, $N = 1254$

ALSLAPLAGAGLELQLER pc2

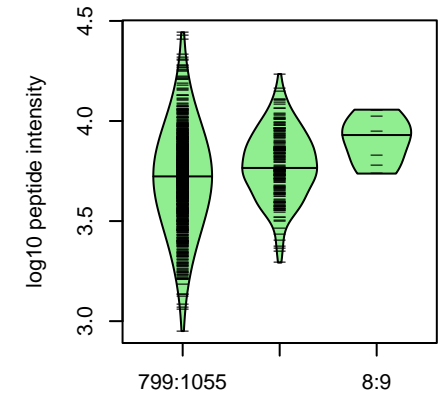
3:124756589:C:T_T
 $p = 9.6e-19$, $\beta = 0.625$, $N = 1218$

EGVMVQTS GK pc2

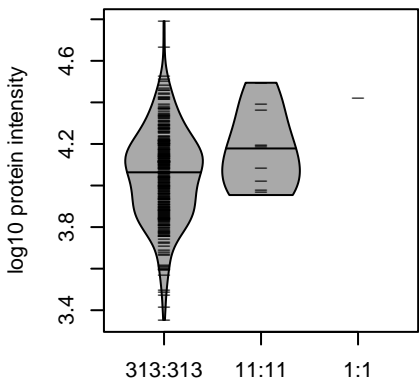
3:124756589:C:T_T
 $p = 3.9e-18$, $\beta = 0.614$, $N = 1237$

SGTASEMGTER pc2

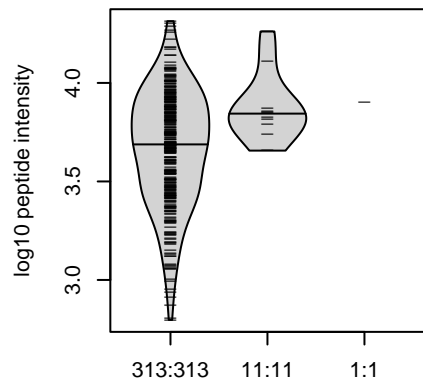
3:124756589:C:T_T
 $p = 4.6e-17$, $\beta = 0.597$, $N = 1219$

TMHVATVFTDGGPR pc3

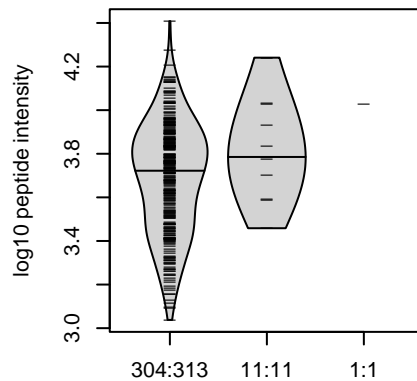
3:124756589:C:T_T
 $p = 2.2e-06$, $\beta = 0.35$, $N = 996$

Q9ULI3 NP2

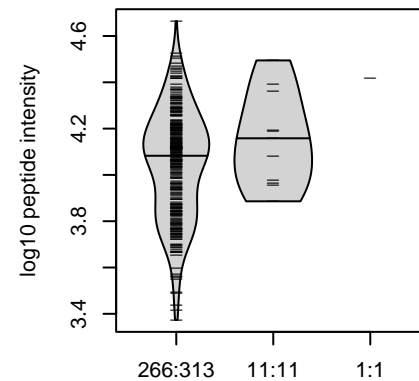
rs4679257
 $p = 0.0051$, $\beta = 0.725$, $N = 325$

ALSLAPLAGAGLELQLER pc2

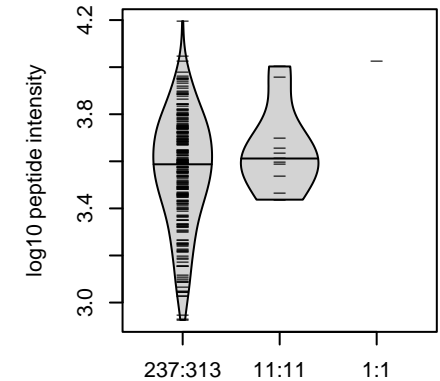
rs4679257
 $p = 0.0089$, $\beta = 0.676$, $N = 325$

SGTASEMGTER pc2

rs4679257
 $p = 0.01$, $\beta = 0.666$, $N = 316$

EGVMVQTS GK pc2

rs4679257
 $p = 0.011$, $\beta = 0.655$, $N = 278$

SLTVSLGPVSK pc2

rs4679257
 $p = 0.02$, $\beta = 0.603$, $N = 249$

Locus: 104 (Sort: 123)

Status: Not replicated

80% power: No

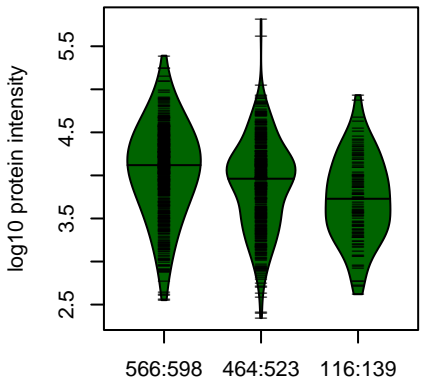
SNP: 3:124756589:C:T

rsID: rs4679257

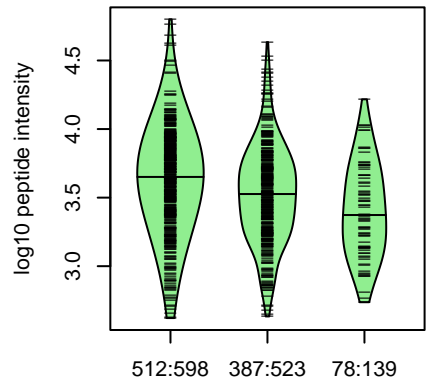
UniProtID: Q9ULI3

HGNC gene: HEG1

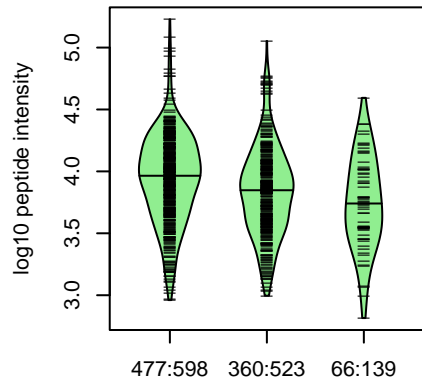
Type: Cis-pQTL

PZP [cis]

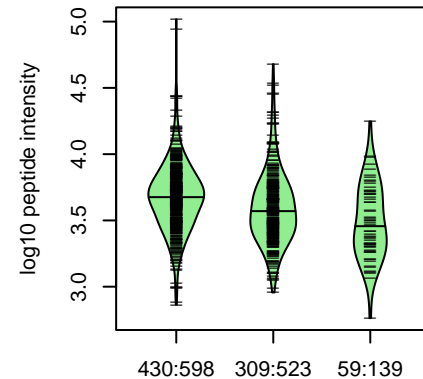
12:9362168:T:C_T
 $p = 7.9e-18$, $\beta = -0.375$, $N = 1146$

GSFALSFPVESDVAPIAR pc2

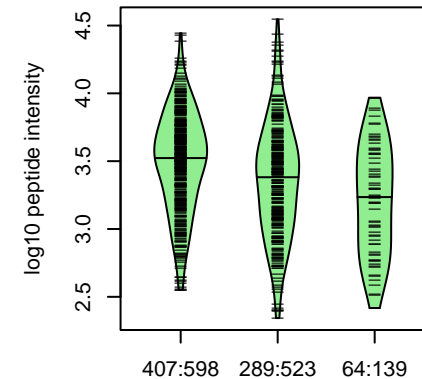
12:9362168:T:C_T
 $p = 4.2e-16$, $\beta = -0.399$, $N = 977$

SLFTDLVAEK pc2

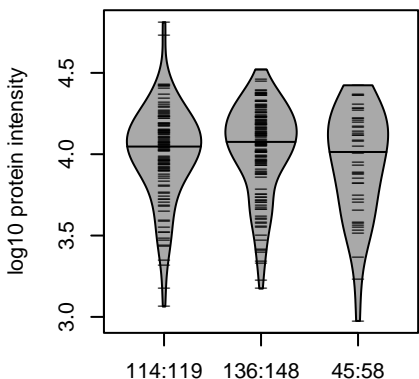
12:9362168:T:C_T
 $p = 6.2e-13$, $\beta = -0.374$, $N = 903$

NELIPLIYLENPR pc2

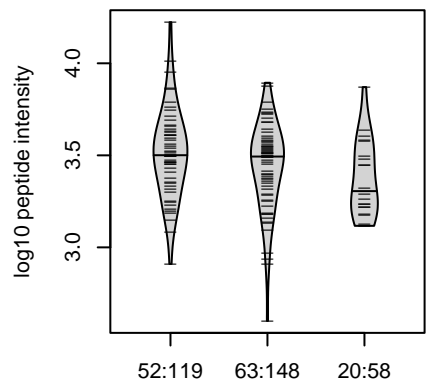
12:9362168:T:C_T
 $p = 1.1e-12$, $\beta = -0.392$, $N = 798$

ALLAYAFSLLGK pc2

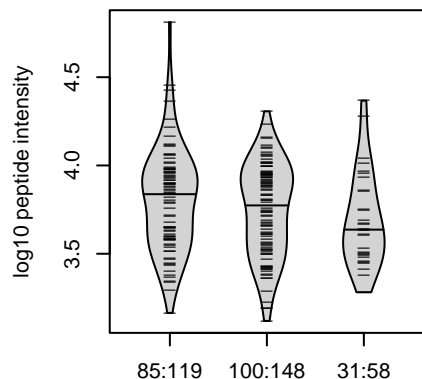
12:9362168:T:C_T
 $p = 9.6e-12$, $\beta = -0.375$, $N = 760$

P20742 NP4

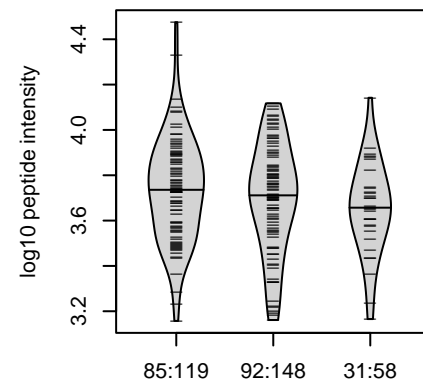
rs1035849
 $p = 0.27$, $\beta = -0.0922$, $N = 295$

GSFALSFPVESDVAPIAR pc2

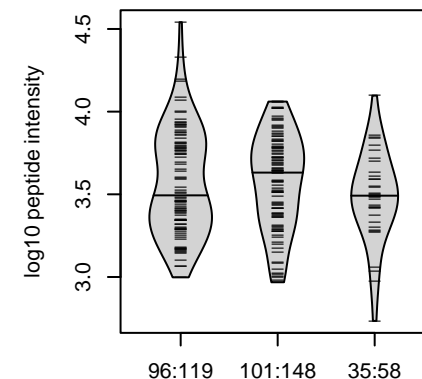
rs1035849
 $p = 6.5e-06$, $\beta = -0.529$, $N = 135$

SLFTDLVAEK pc2

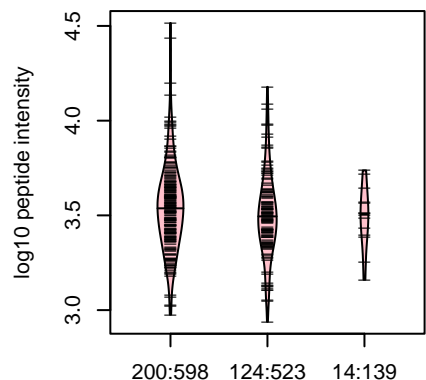
rs1035849
 $p = 4.1e-05$, $\beta = -0.391$, $N = 216$

TLLVEAEGIEQEK pc2

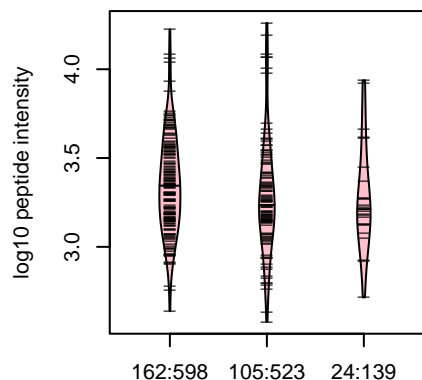
rs1035849
 $p = 0.00031$, $\beta = -0.346$, $N = 208$

ISEITNIVSK pc2

rs1035849
 $p = 0.00079$, $\beta = -0.305$, $N = 232$

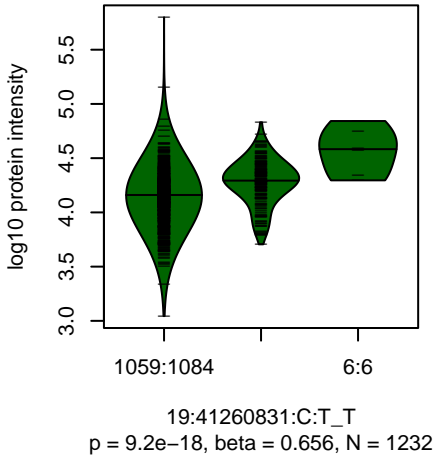
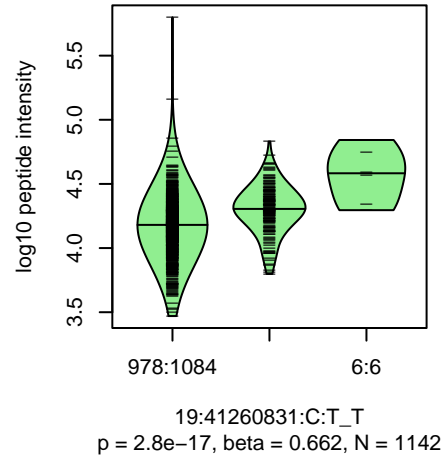
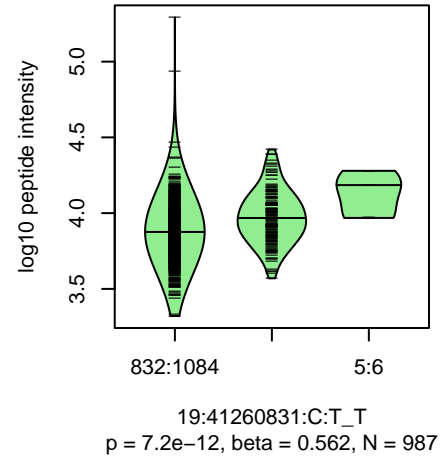
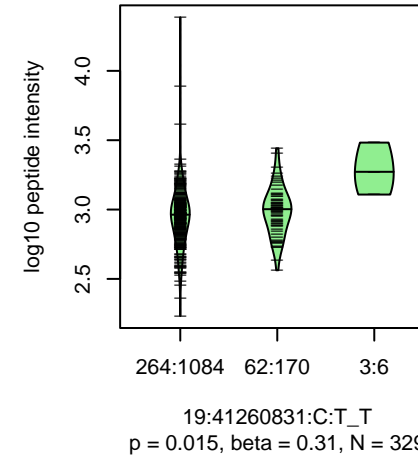
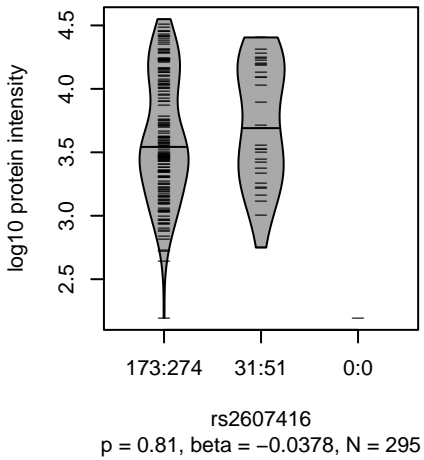
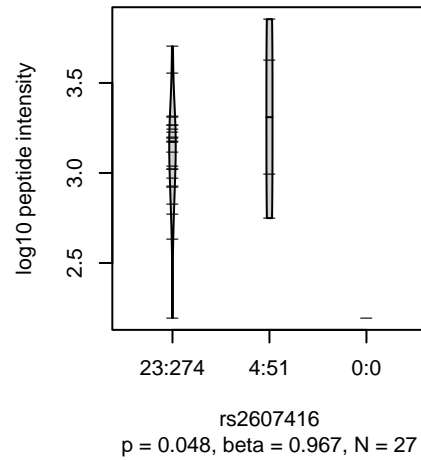
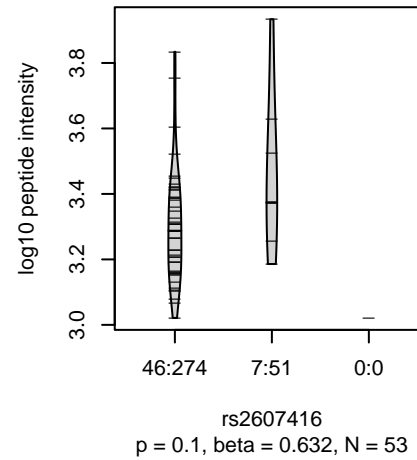
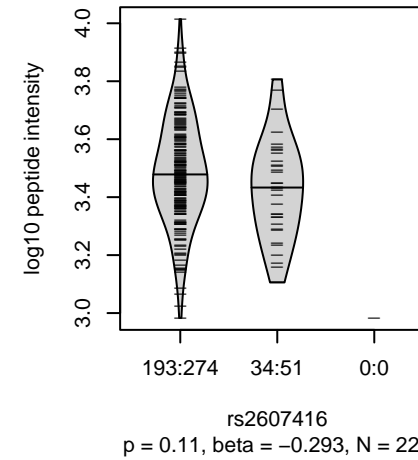
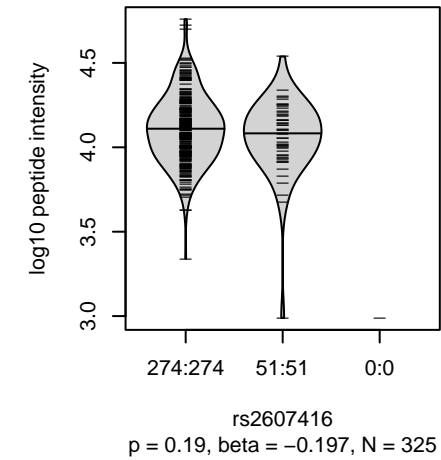
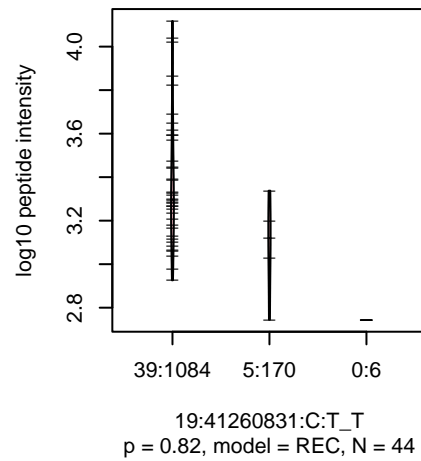
**GEESYCIGSER pc2
rs3213831 ALT**

12:9362168:T:C_T
 $p = 4.5e-07$, $\text{model} = \text{DOM}$, $N = 338$

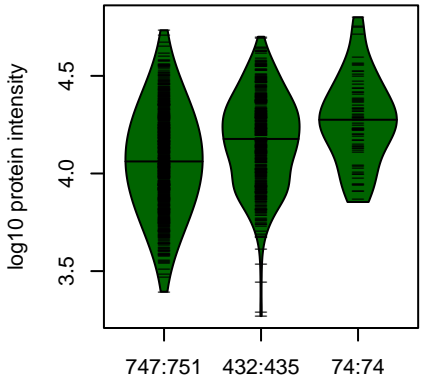
**GEESYCIGNER pc2
rs3213831 REF**

12:9362168:T:C_T
 $p = 0.0016$, $\text{model} = \text{REC}$, $N = 291$

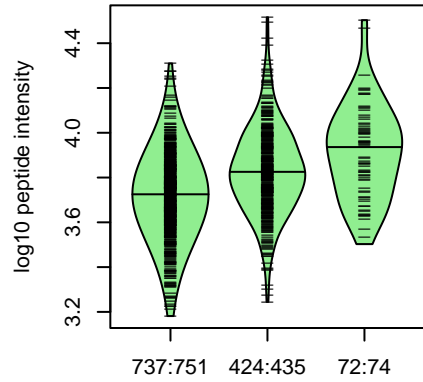
Locus: 105 (Sort: 124)
 Status: Not replicated
 80% power: No
 SNP: 12:9362168:T:C
 rsID: rs1035849
 UniProtID: P20742
 HGNC gene: PZP
 Type: Cis-pQTL

MIA-RAB4B [cis]**LGYPSSIVR pc2****GQVVYVFSK pc2****EDQTLKPGK pc2****W4VSR3 NP3****NELIPLIYLENPRR pc3****AVGYLITGYQR pc2****MVSGFIPLKPTVK pc3****NQGNTWLTAFLK pc2****GEESYCIGSER pc2
rs3213831 ALT**

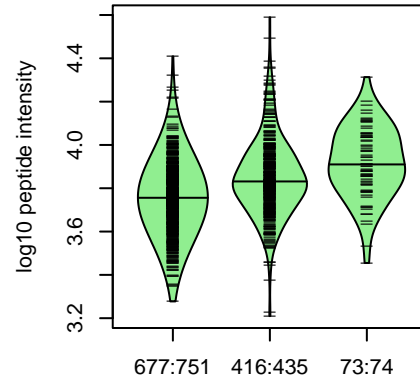
Locus: 106 (Sort: 125)
 Status: Not replicated
 80% power: No
 SNP: 19:41260831:C:T
 rsID: rs2607416
 UniProtID: W4VSR3
 HGNC gene: MIA-RAB4B
 Type: Cis-pQTL

FUT8 [cis]

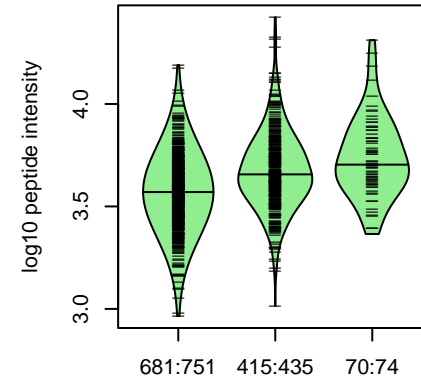
14:65779904:T:C_T
 $p = 9.8e-18$, $\beta = 0.393$, $N = 1253$

VYLATDDPSLLK pc2

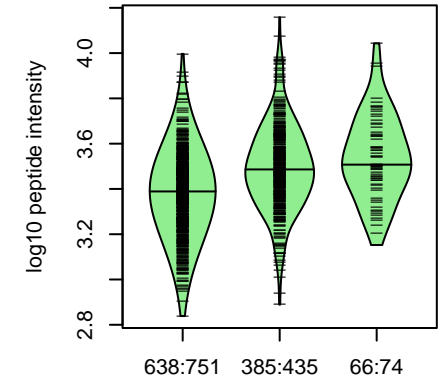
14:65779904:T:C_T
 $p = 2.9e-29$, $\beta = 0.514$, $N = 1233$

TLILESQNR pc2

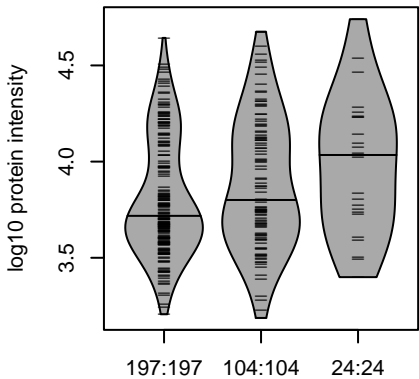
14:65779904:T:C_T
 $p = 3.8e-27$, $\beta = 0.501$, $N = 1166$

VHGDPVWVVSQFVK pc3

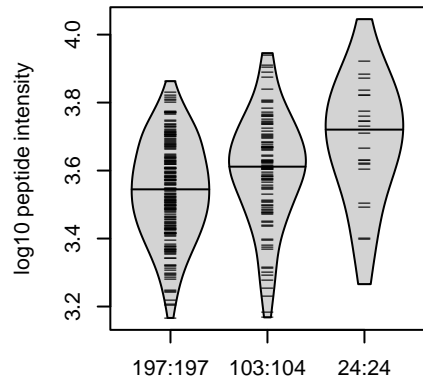
14:65779904:T:C_T
 $p = 1.8e-24$, $\beta = 0.479$, $N = 1166$

ELWFFLQSELK pc2

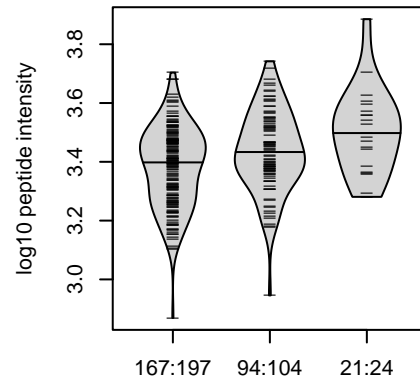
14:65779904:T:C_T
 $p = 2.4e-24$, $\beta = 0.493$, $N = 1089$

Q9BYC5 NP3

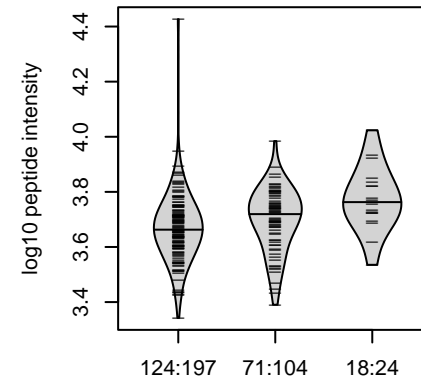
rs4899172
 $p = 0.005$, $\beta = 0.244$, $N = 325$

VYLATDDPSLLK pc2

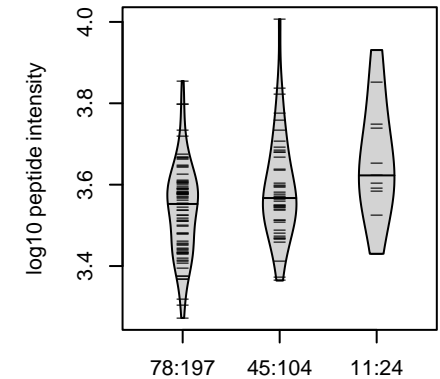
rs4899172
 $p = 4.3e-07$, $\beta = 0.432$, $N = 324$

VHGDPVWVVSQFVK pc3

rs4899172
 $p = 5.7e-05$, $\beta = 0.369$, $N = 282$

TLILESQNR pc2

rs4899172
 $p = 0.00086$, $\beta = 0.343$, $N = 213$

ITYLQNPk pc2

rs4899172
 $p = 0.0017$, $\beta = 0.404$, $N = 134$

Locus: 107 (Sort: 126)

Status: Not replicated

80% power: No

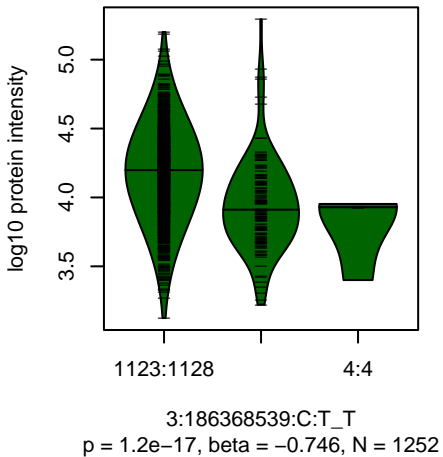
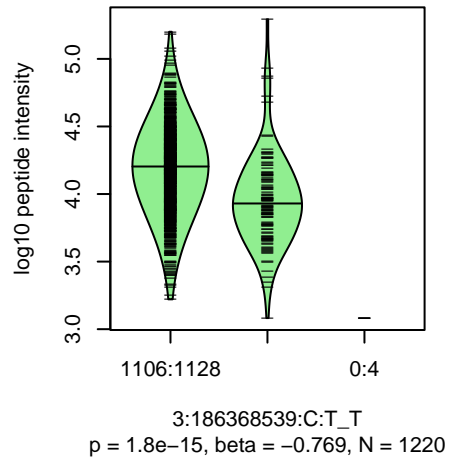
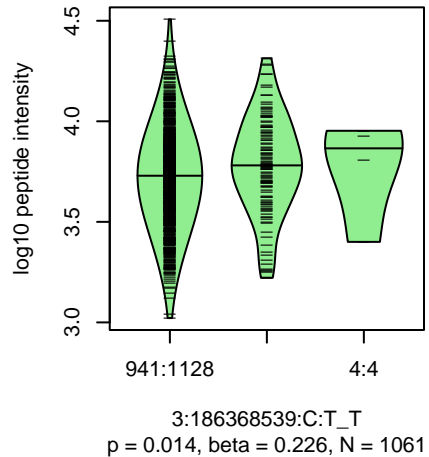
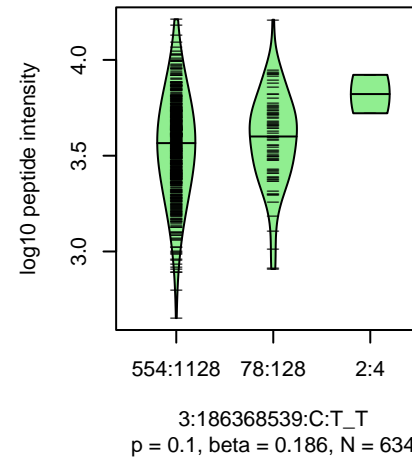
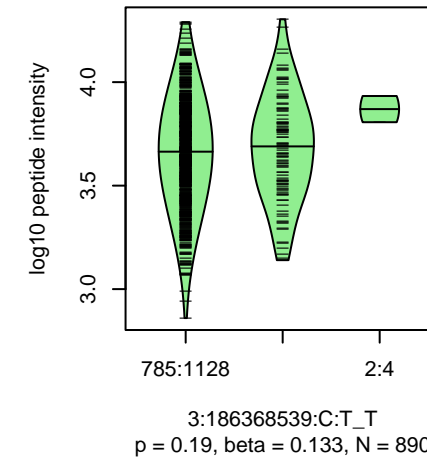
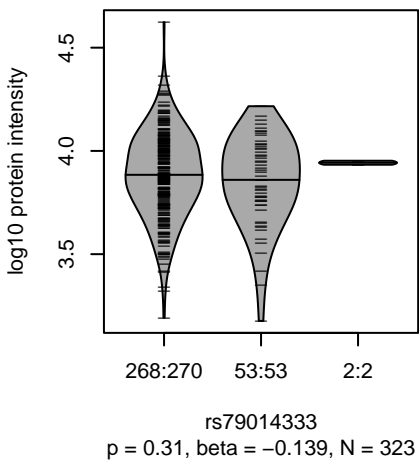
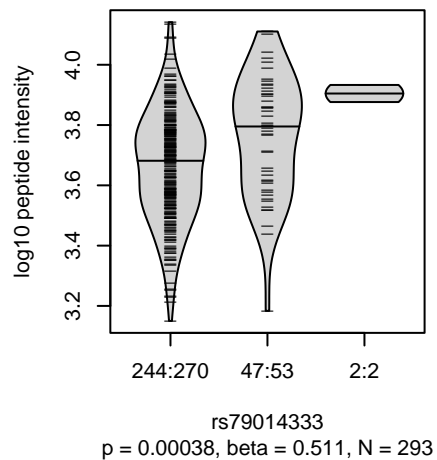
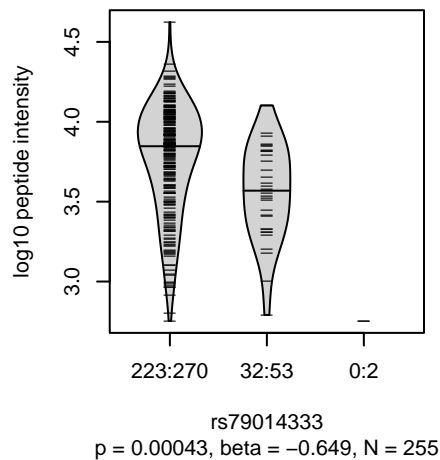
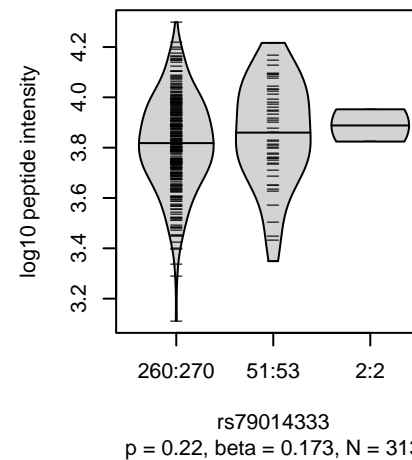
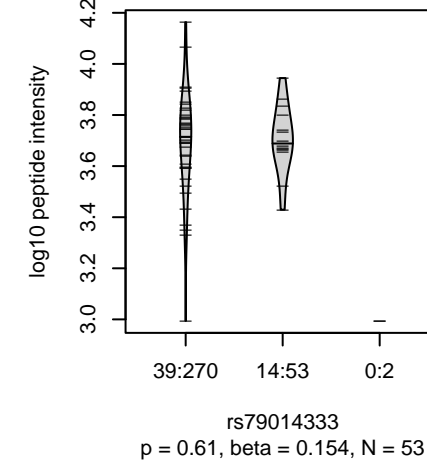
SNP: 14:65779904:T:C

rsID: rs4899172

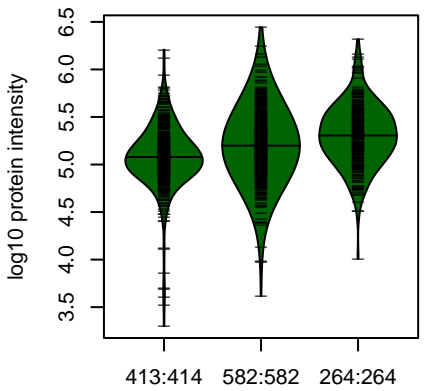
UniProtID: Q9BYC5

HGNC gene: FUT8

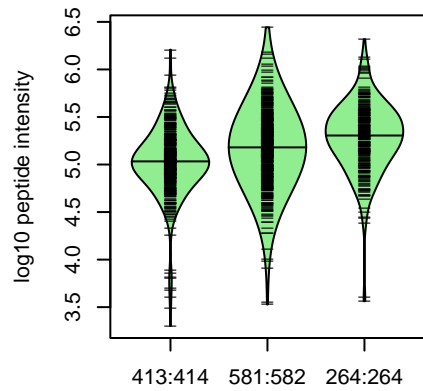
Type: Cis-pQTL

FETUB [cis]**LVVLPFPK pc2****IFFESVYGQCK pc2****AIFYMNNPSR pc2****GSVQYLPDLDDK pc2****Q9UGM5 NP4****AIFYMNNPSR pc2****LVVLPFPK pc2****IFFESVYGQCK pc2****GSVQYLPDLDDK pc2**

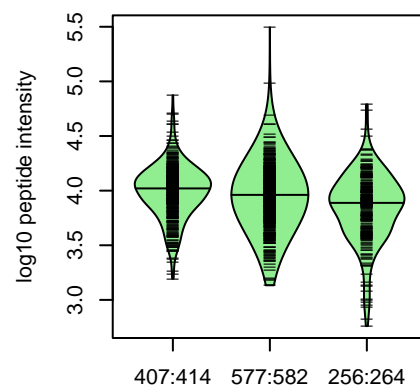
Locus: 108 (Sort: 127)
 Status: Not replicated
 80% power: No
 SNP: 3:186368539:C:T
 rsID: rs79014333
 UniProtID: Q9UGM5
 HGNC gene: FETUB
 Type: Cis-pQTL

HP [cis]

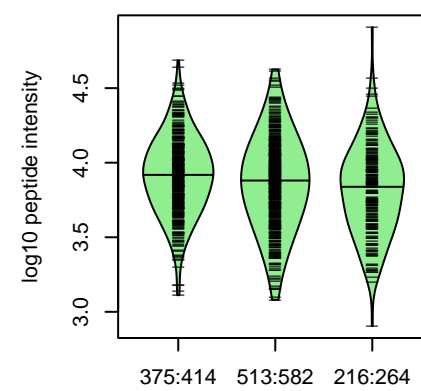
16:72225786:C:T_T
 $p = 1.4e-17$, $\beta = 0.326$, $N = 1259$

VTSIQDWVQK pc2

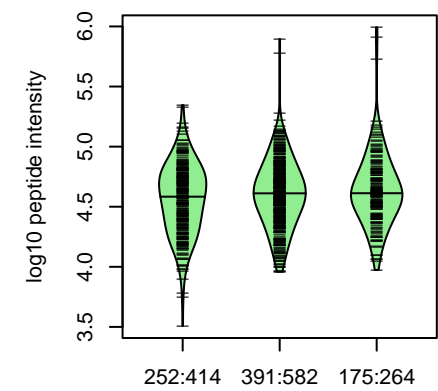
16:72225786:C:T_T
 $p = 1e-18$, $\beta = 0.337$, $N = 1258$

TEGDGVYTLNNEK pc2

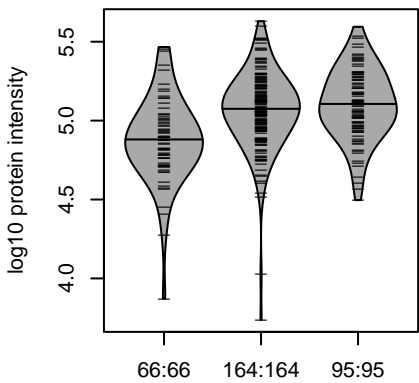
16:72225786:C:T_T
 $p = 2e-09$, $\beta = -0.233$, $N = 1240$

LRTEGDGVYTLNNEK pc3

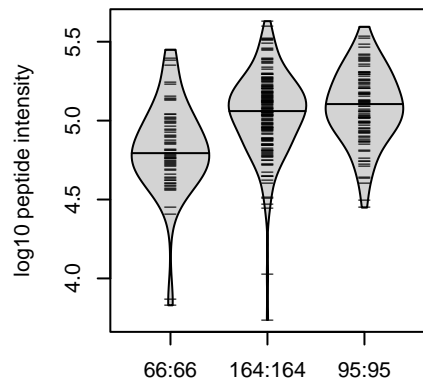
16:72225786:C:T_T
 $p = 5.4e-05$, $\beta = -0.168$, $N = 1104$

DYAEVGR pc2

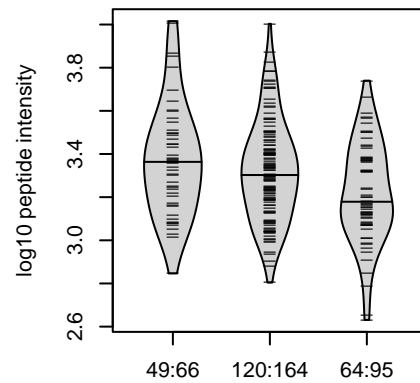
16:72225786:C:T_T
 $p = 0.033$, $\beta = 0.103$, $N = 818$

P00738 NP4

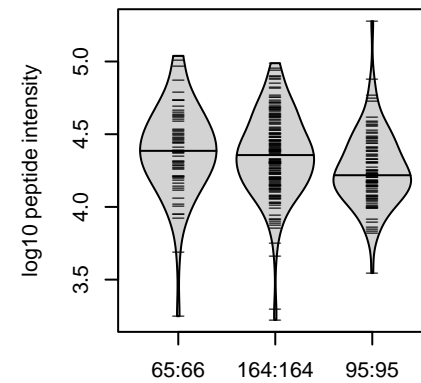
rs3852788
 $p = 3.2e-06$, $\beta = 0.365$, $N = 325$

VTSIQDWVQK pc2

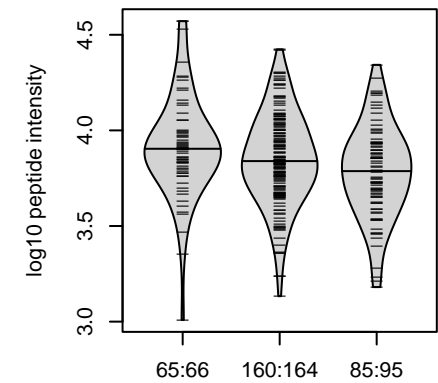
rs3852788
 $p = 1e-07$, $\beta = 0.409$, $N = 325$

LRTEGDGVYTLNNEK pc2

rs3852788
 $p = 0.00047$, $\beta = -0.321$, $N = 233$

SPVGVQPILNEHTFCAGMSK pc3

rs3852788
 $p = 0.00068$, $\beta = -0.266$, $N = 324$

TEGDGVYTLNNEK pc2

rs3852788
 $p = 7e-04$, $\beta = -0.272$, $N = 310$

Locus: 109 (Sort: 128)

Status: Replicated

80% power: No

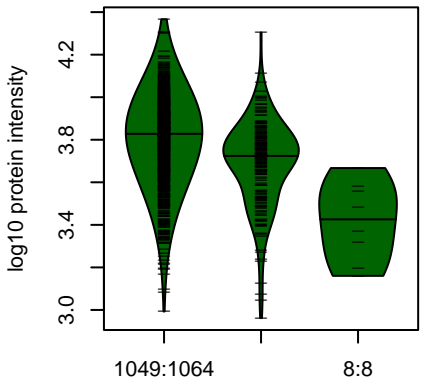
SNP: 16:72225786:C:T

rsID: rs3852788

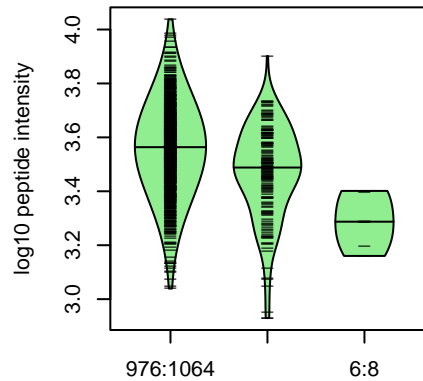
UniProtID: P00738

HGNC gene: HP

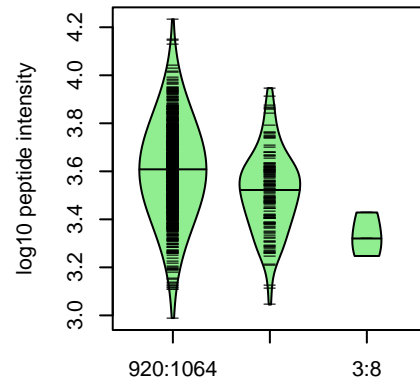
Type: Cis-pQTL

GALNT12 [cis]

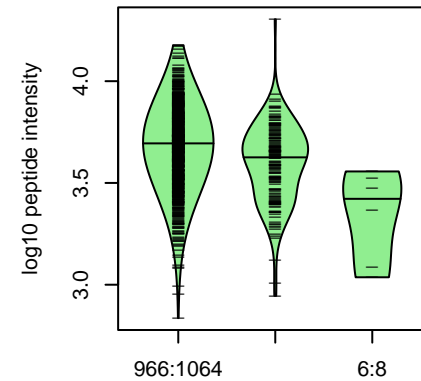
9:101570336:A:T_T
 $p = 2.2e-17$, $\beta = -0.616$, $N = 1240$

LANELSGLPK pc2

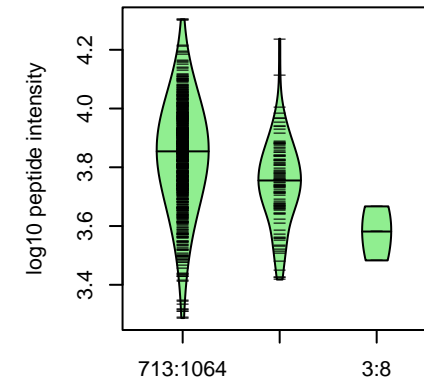
9:101570336:A:T_T
 $p = 5.1e-13$, $\beta = -0.56$, $N = 1146$

AAEVWMEFK pc2

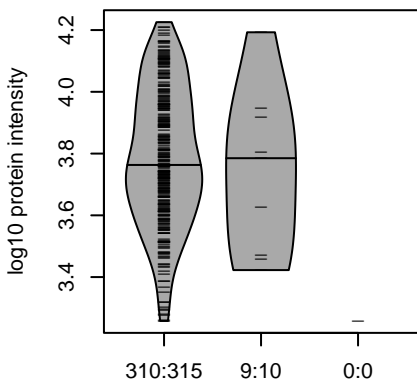
9:101570336:A:T_T
 $p = 1.5e-10$, $\beta = -0.539$, $N = 1070$

ESSDSFVPLLR pc2

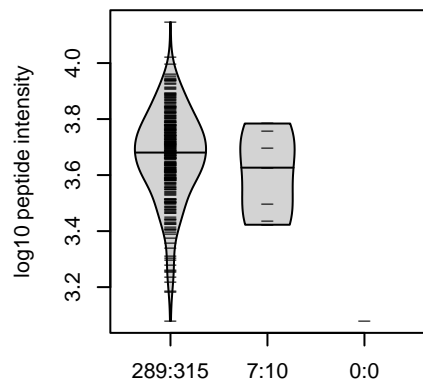
9:101570336:A:T_T
 $p = 2.6e-10$, $\beta = -0.498$, $N = 1131$

MQSPVDVIR pc2

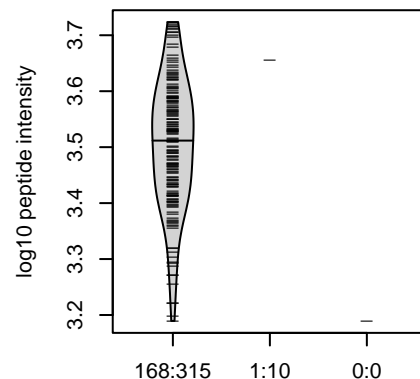
9:101570336:A:T_T
 $p = 5.8e-08$, $\beta = -0.533$, $N = 819$

Q8IXK2 NP5

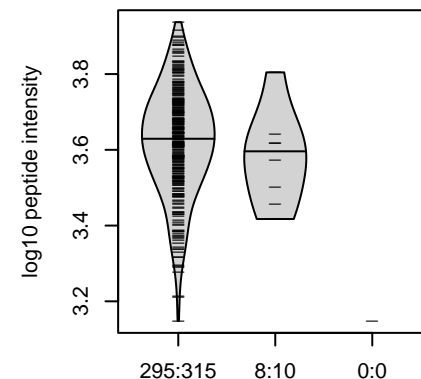
rs1137654
 $p = 0.66$, $\beta = -0.147$, $N = 319$

ESSDSFVPLLR pc2

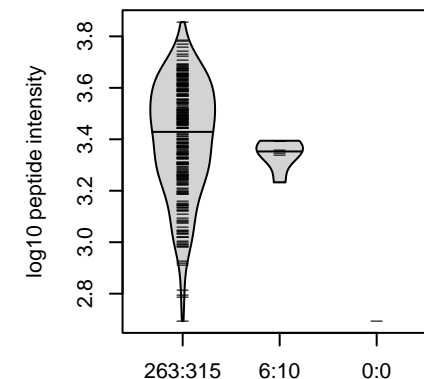
rs1137654
 $p = 0.16$, $\beta = -0.533$, $N = 296$

SPTMAGGLFAVSK pc2

rs1137654
 $p = 0.27$, $\beta = 1.08$, $N = 169$

AAEVWMEFK pc2

rs1137654
 $p = 0.32$, $\beta = -0.354$, $N = 303$

LANELSGLPK pc2

rs1137654
 $p = 0.51$, $\beta = -0.268$, $N = 269$

Locus: 110 (Sort: 129)

Status: Not replicated

80% power: No

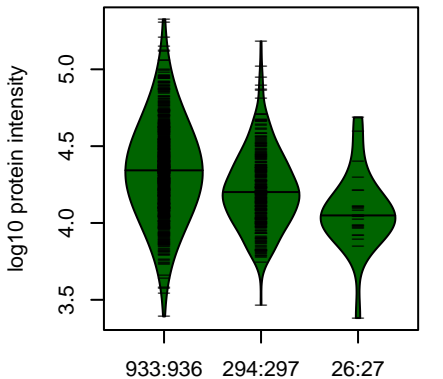
SNP: 9:101570336:A:T

rsID: rs1137654

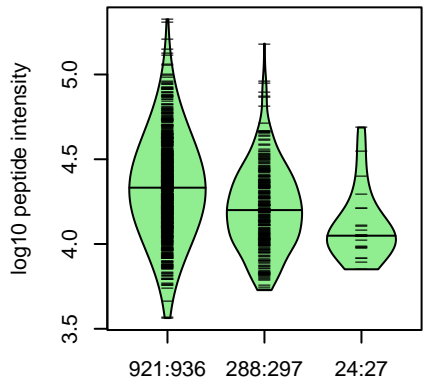
UniProtID: Q8IXK2

HGNC gene: GALNT12

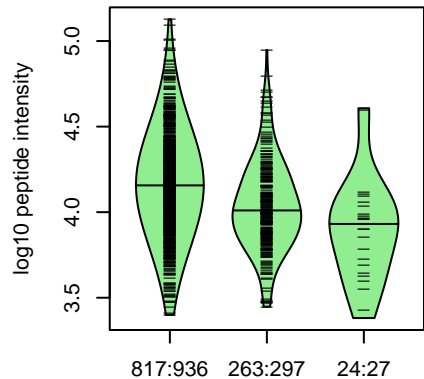
Type: Cis-pQTL

TSKU [cis]

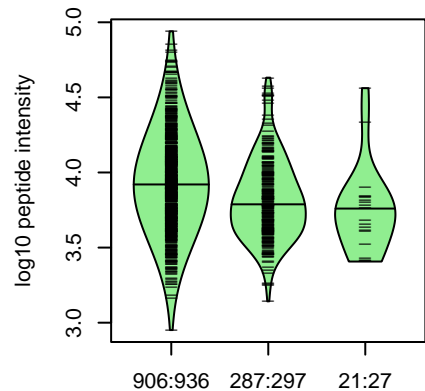
11:76469093:C:T_T
 $p = 2.8e-17$, $\beta = -0.477$, $N = 1253$

EVSVSFTTHSQGR pc3

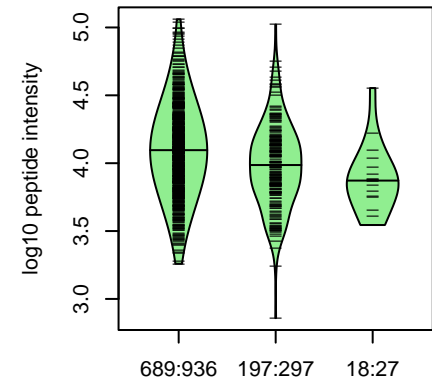
11:76469093:C:T_T
 $p = 2.1e-16$, $\beta = -0.472$, $N = 1233$

ALHVDLSHNLHR pc3

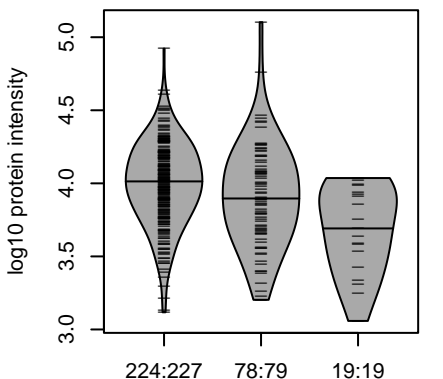
11:76469093:C:T_T
 $p = 2.2e-13$, $\beta = -0.438$, $N = 1104$

VALHCVDTR pc2

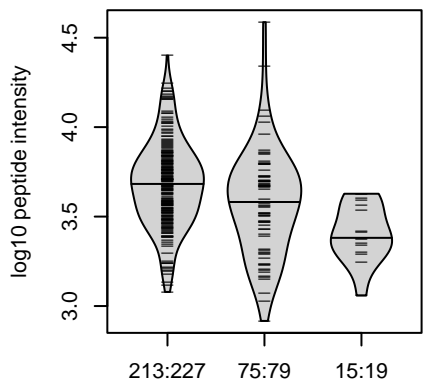
11:76469093:C:T_T
 $p = 7.8e-10$, $\beta = -0.362$, $N = 1214$

LVPHPTR pc2

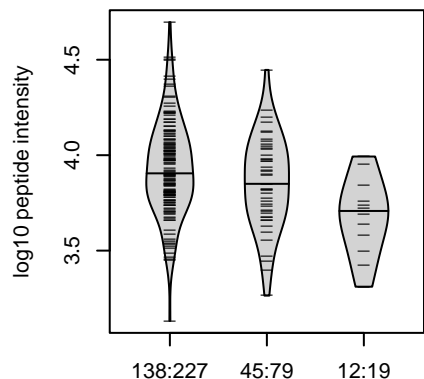
11:76469093:C:T_T
 $p = 2.9e-07$, $\beta = -0.351$, $N = 904$

Q8WUA8 NP5

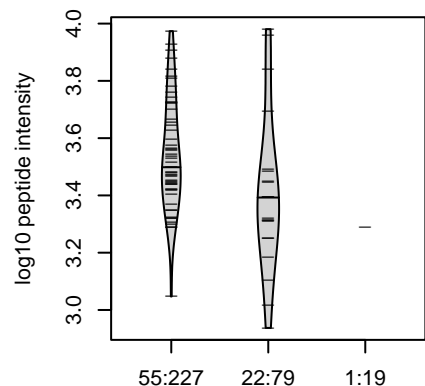
rs1149596
 $p = 0.00014$, $\beta = -0.353$, $N = 321$

EVSVSFTTHSQGR pc2

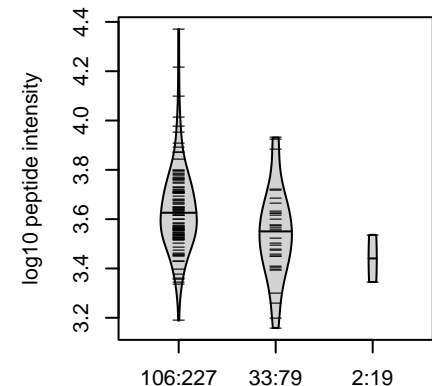
rs1149596
 $p = 1.6e-05$, $\beta = -0.423$, $N = 303$

VALHCVDTR pc2

rs1149596
 $p = 0.0022$, $\beta = -0.36$, $N = 195$

AGLPPTIQLNLAWNR pc2

rs1149596
 $p = 0.0092$, $\beta = -0.571$, $N = 78$

LPELAPSGFR pc2

rs1149596
 $p = 0.01$, $\beta = -0.443$, $N = 141$

Locus: 111 (Sort: 130)

Status: Replicated

80% power: No

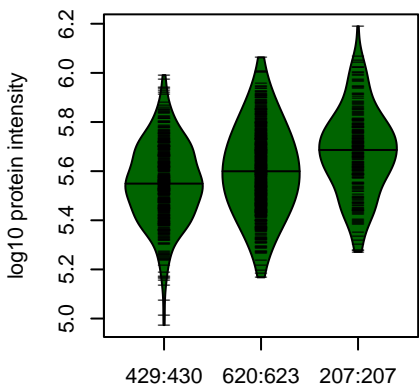
SNP: 11:76469093:C:T

rsID: rs1149596

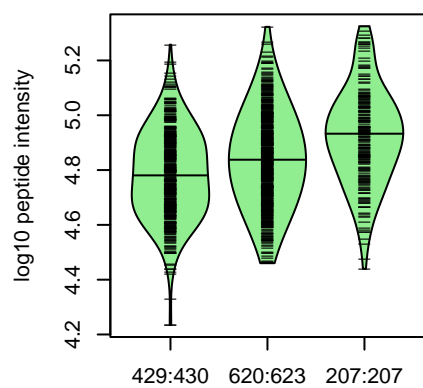
UniProtID: Q8WUA8

HGNC gene: TSKU

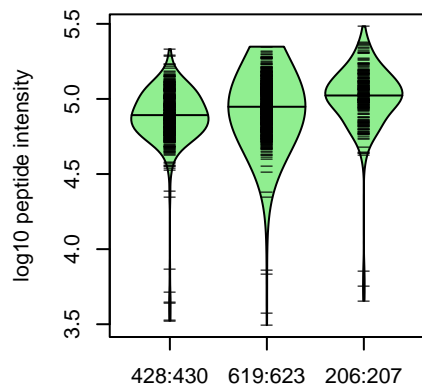
Type: Cis-pQTL

HSP90B1 [cis]

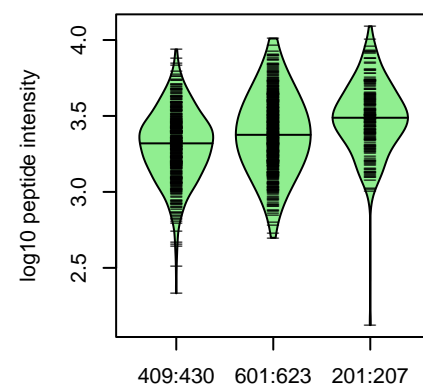
12:104372656:A:G_A
 $p = 3e-17$, $\beta = 0.34$, $N = 1256$

DISTNYASQK pc2

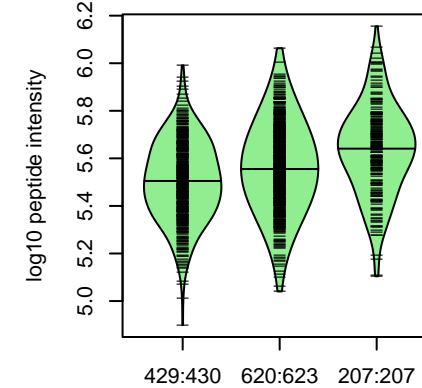
12:104372656:A:G_A
 $p = 2.9e-20$, $\beta = 0.37$, $N = 1256$

EVEEDEYK pc2

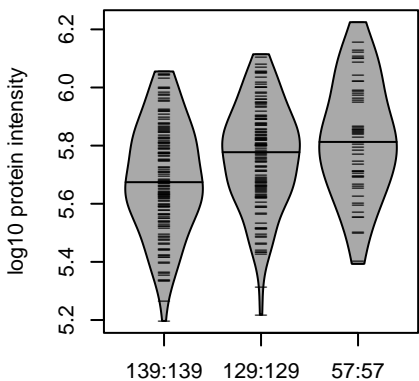
12:104372656:A:G_A
 $p = 2.2e-18$, $\beta = 0.352$, $N = 1253$

EEEEIQLDGLNASQIR pc2

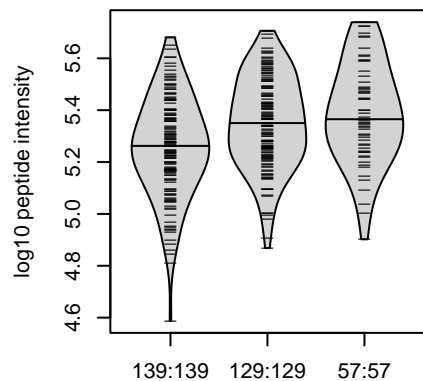
12:104372656:A:G_A
 $p = 2.3e-18$, $\beta = 0.358$, $N = 1211$

LIINSLYK pc2

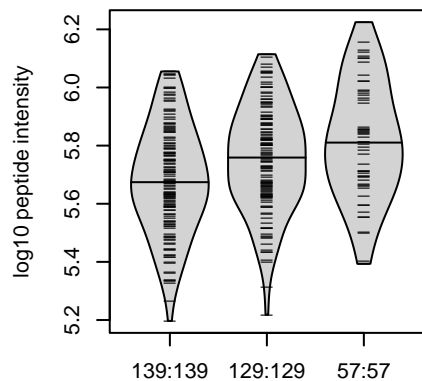
12:104372656:A:G_A
 $p = 2.5e-17$, $\beta = 0.34$, $N = 1256$

P14625 NP2

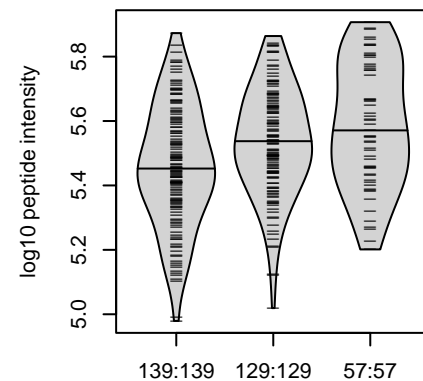
rs10861152
 $p = 6.2e-06$, $\beta = 0.335$, $N = 325$

EFEPLLNMWK pc2

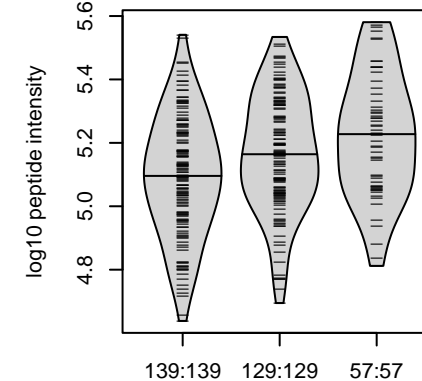
rs10861152
 $p = 5.9e-06$, $\beta = 0.333$, $N = 325$

SILFVPTSAPR pc2

rs10861152
 $p = 7.8e-06$, $\beta = 0.329$, $N = 325$

GVVDSDDLPLNVSIR pc2

rs10861152
 $p = 9.9e-06$, $\beta = 0.325$, $N = 325$

YNDTFWK pc2

rs10861152
 $p = 1.4e-05$, $\beta = 0.32$, $N = 325$

Locus: 112 (Sort: 131)

Status: Replicated

80% power: No

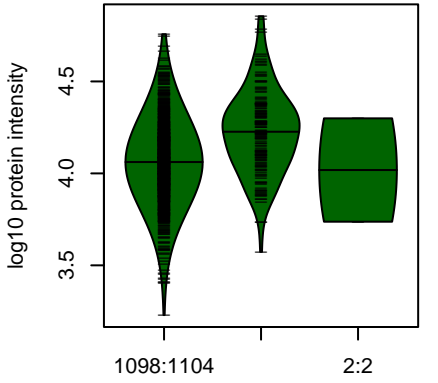
SNP: 12:104372656:A:G

rsID: rs10861152

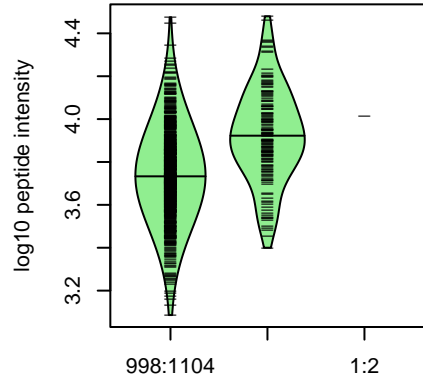
UniProtID: P14625

HGNC gene: HSP90B1

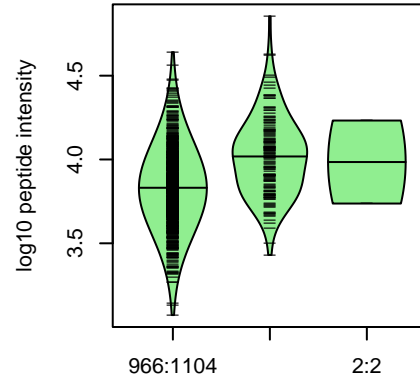
Type: Cis-pQTL

LTBP3 [cis]

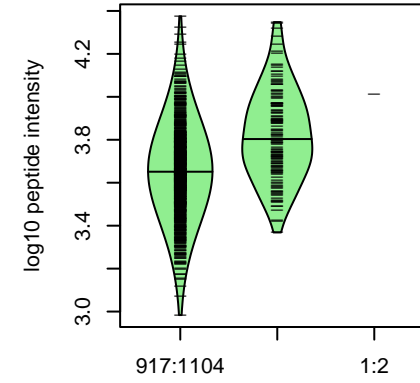
11:65330510:C:T_T
 $p = 3.1e-17$, $\beta = 0.698$, $N = 1253$

GYTQDNNIVNYGIPAHR pc3

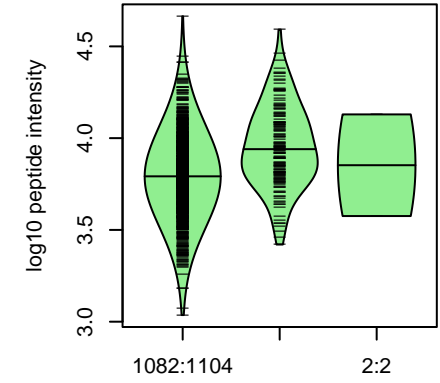
11:65330510:C:T_T
 $p = 1.8e-23$, $\beta = 0.845$, $N = 1147$

DCQLPESPAER pc2

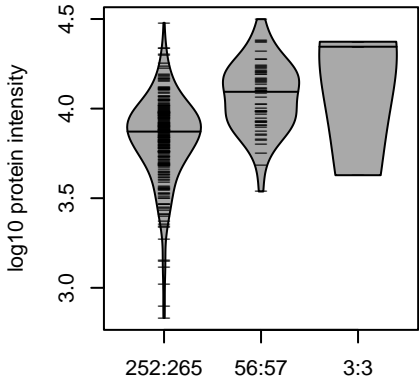
11:65330510:C:T_T
 $p = 3.2e-19$, $\beta = 0.753$, $N = 1116$

IESSNAESAAPSQHLLPHPK pc4

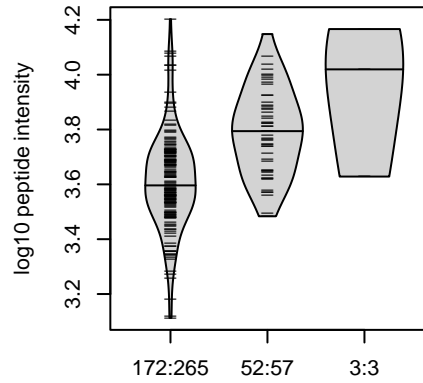
11:65330510:C:T_T
 $p = 1.6e-17$, $\beta = 0.748$, $N = 1057$

CIACQPGYR pc2

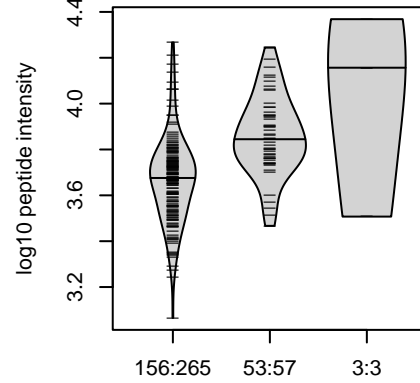
11:65330510:C:T_T
 $p = 2.2e-16$, $\beta = 0.683$, $N = 1235$

Q9NS15 NP5

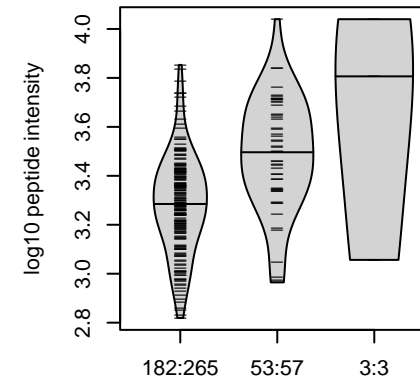
rs11227226
 $p = 2e-11$, $\beta = 0.857$, $N = 311$

NQCLCPPDFTGR pc2

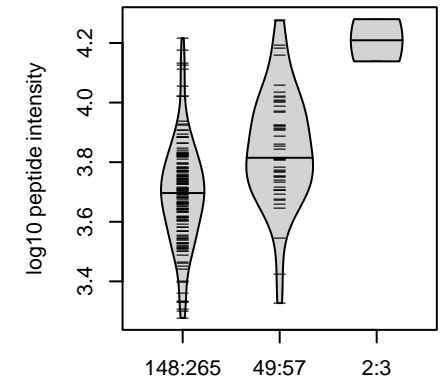
rs11227226
 $p = 8.4e-12$, $\beta = 0.912$, $N = 227$

DCQLPESPAER pc2

rs11227226
 $p = 9.3e-11$, $\beta = 0.871$, $N = 212$

CTCAQGYAPAPDGR pc2

rs11227226
 $p = 4.4e-10$, $\beta = 0.832$, $N = 238$

GYTQDNNIVNYGIPAHR pc3

rs11227226
 $p = 4.9e-09$, $\beta = 0.842$, $N = 199$

Locus: 113 (Sort: 132)

Status: Replicated

80% power: No

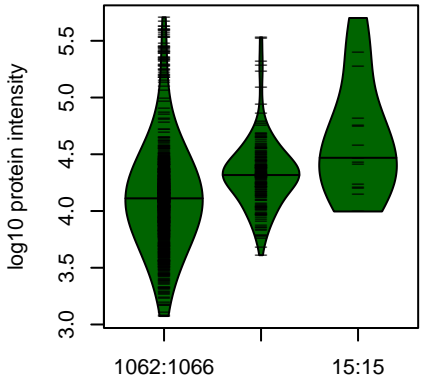
SNP: 11:65330510:C:T

rsID: rs11227226

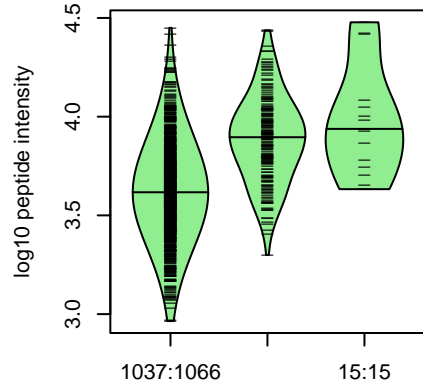
UniProtID: Q9NS15

HGNC gene: LTBP3

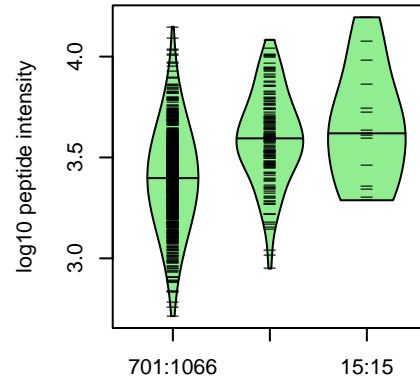
Type: Cis-pQTL

CCL15 [cis]

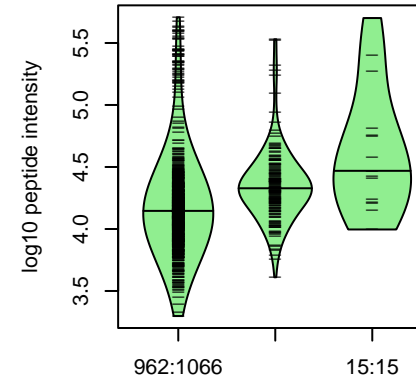
17:34338078:G:A_G
 $p = 4.8e-17$, $\beta = 0.579$, $N = 1254$

SYFETSSECSK pc2

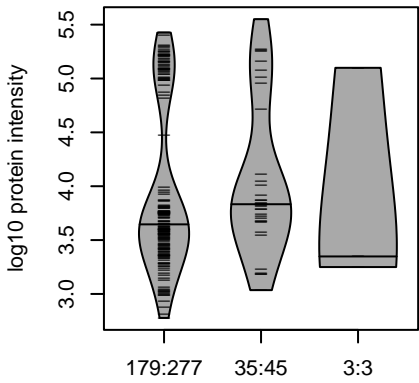
17:34338078:G:A_G
 $p = 4.3e-36$, $\beta = 0.854$, $N = 1227$

PSGPGVQDCMK pc2

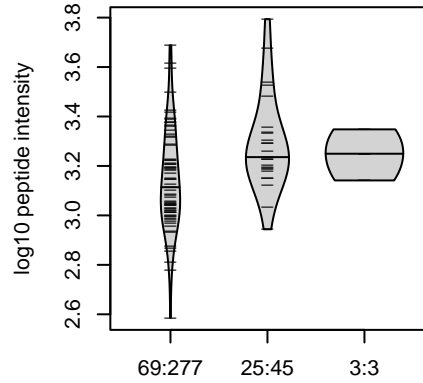
17:34338078:G:A_G
 $p = 5.4e-19$, $\beta = 0.654$, $N = 870$

PGVIFLTK pc2

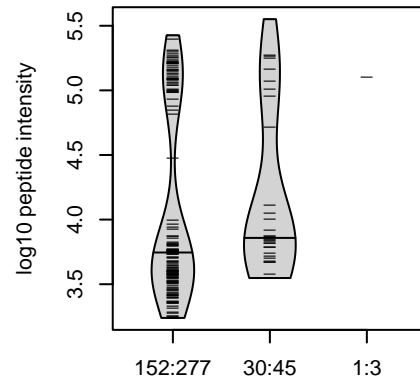
17:34338078:G:A_G
 $p = 6.4e-15$, $\beta = 0.549$, $N = 1146$

Q16663 NP3

rs1719200
 $p = 0.23$, $\beta = 0.189$, $N = 217$

SYFETSSECSK pc2

rs1719200
 $p = 0.007$, $\beta = 0.495$, $N = 97$

PGVIFLTK pc2

rs1719200
 $p = 0.028$, $\beta = 0.403$, $N = 183$

Locus: 114 (Sort: 133)

Status: Not replicated

80% power: No

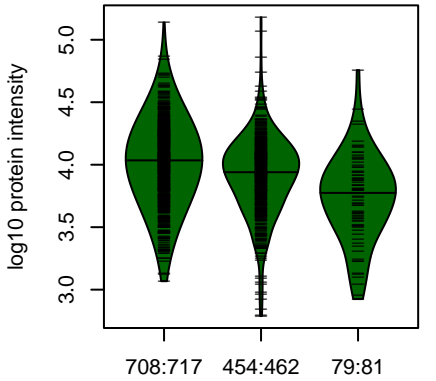
SNP: 17:34338078:G:A

rsID: rs1719200

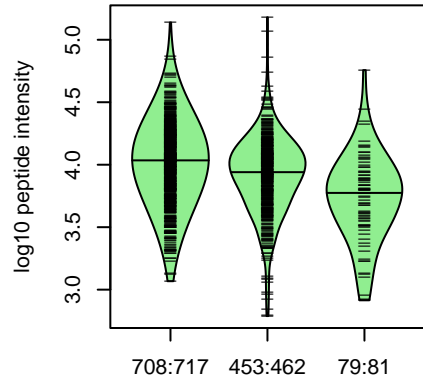
UniProtID: Q16663

HGNC gene: CCL15

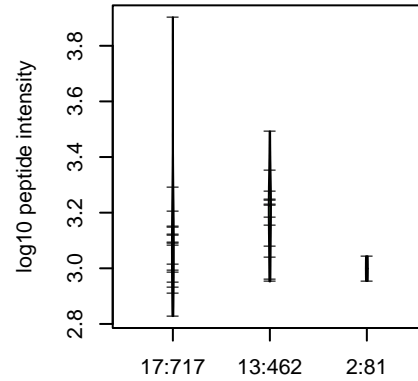
Type: Cis-pQTL

CDKL3 [trans]

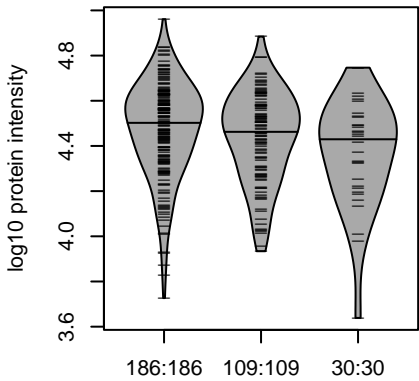
3:186393547:T:C_C
 $p = 5.7e-17$, $\beta = -0.38$, $N = 1241$

YLFQILR pc2

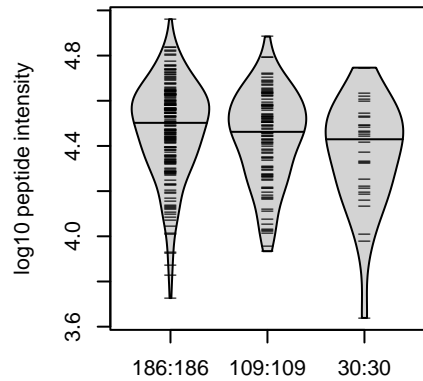
3:186393547:T:C_C
 $p = 8.2e-17$, $\beta = -0.378$, $N = 1240$

LCDFGFAR pc2

3:186393547:T:C_C
 $p = 0.8$, $\beta = 0.0678$, $N = 32$

Q81VW4 NP1

rs7625980
 $p = 0.034$, $\beta = -0.176$, $N = 325$

YLFQILR pc2

rs7625980
 $p = 0.037$, $\beta = -0.173$, $N = 325$

Locus: 115 (Sort: 134)

Status: Not replicated

80% power: No

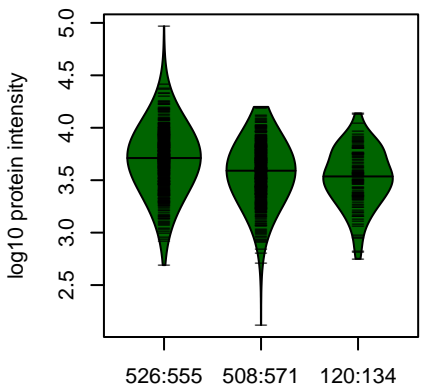
SNP: 3:186393547:T:C

rsID: rs7625980

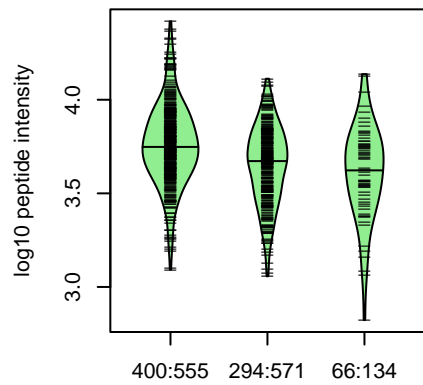
UniProtID: Q81VW4

HGNC gene: CDKL3

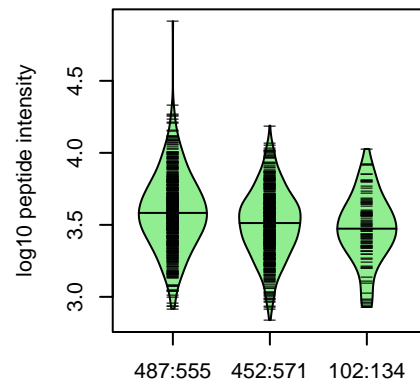
Type: Trans-pQTL

LGALS4 [trans]

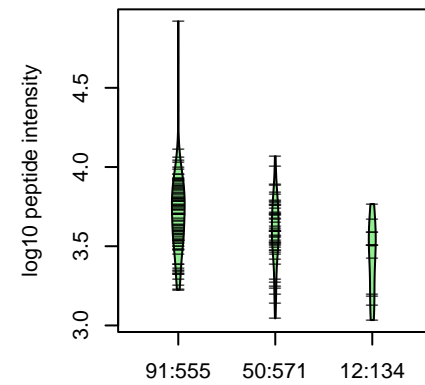
9:136149229:T:C_C
 $p = 6.4e-17$, $\beta = -0.366$, $N = 1154$

VVFNTLQGGK pc2

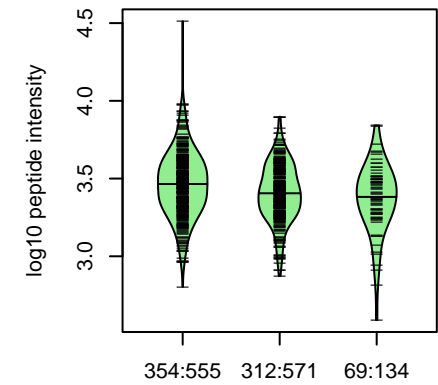
9:136149229:T:C_C
 $p = 3.8e-12$, $\beta = -0.38$, $N = 760$

VGSSGDIALHINPR pc3

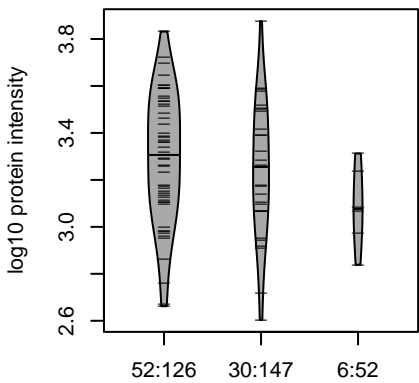
9:136149229:T:C_C
 $p = 3.4e-08$, $\beta = -0.258$, $N = 1041$

VYANGQLFDFFAHR pc3

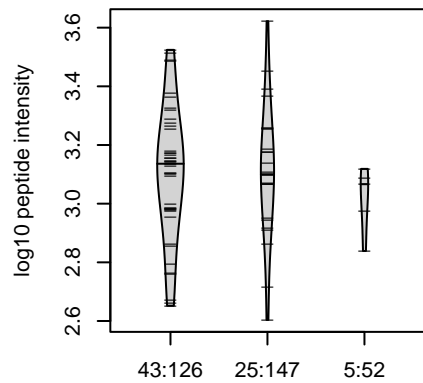
9:136149229:T:C_C
 $p = 4.7e-06$, $\beta = -0.55$, $N = 153$

NSLLNGSWGSEEK pc2

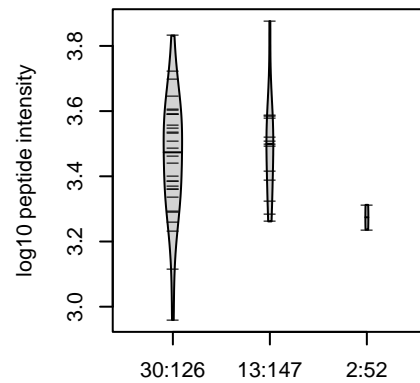
9:136149229:T:C_C
 $p = 0.00022$, $\beta = -0.207$, $N = 735$

P56470 NP3

rs505922
 $p = 0.051$, $\beta = -0.32$, $N = 88$

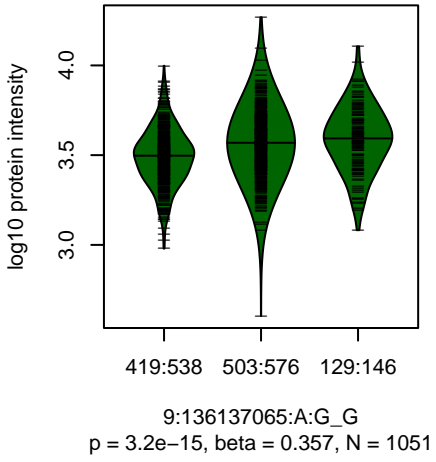
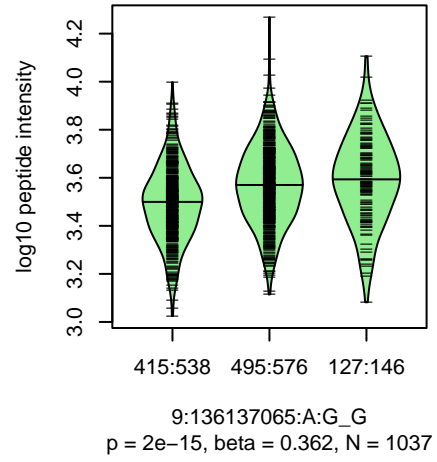
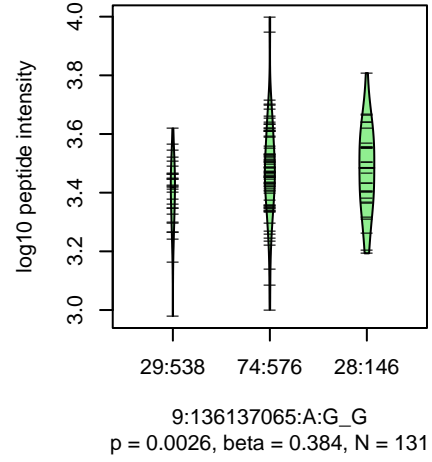
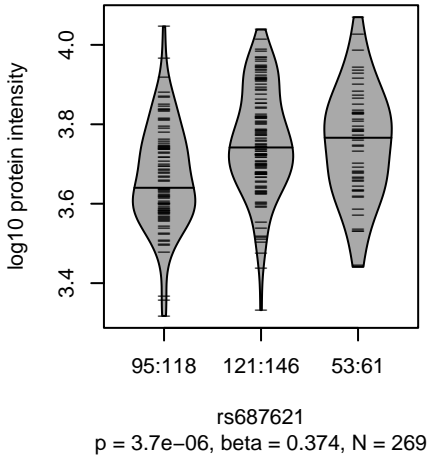
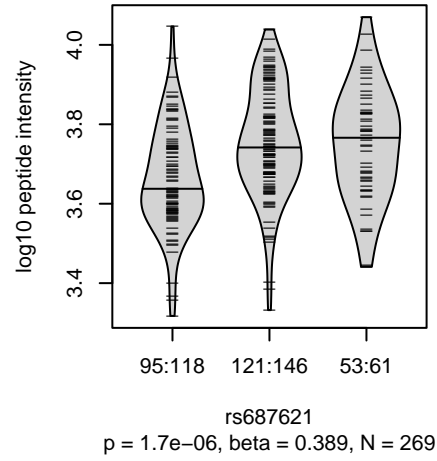
VGSSGDIALHINPR pc3

rs505922
 $p = 0.3$, $\beta = -0.187$, $N = 73$

VVFNTLQGGK pc2

rs505922
 $p = 0.7$, $\beta = -0.0978$, $N = 45$

Locus: 116 (Sort: 135)
 Status: Not replicated
 80% power: No
 SNP: 9:136149229:T:C
 rsID: rs505922
 UniProtID: P56470
 HGNC gene: LGALS4
 Type: Trans-pQTL

CD34 [trans]**TSSCAEFK pc2****QHVVADTEL pc2****P28906 NP2****TSSCAEFK pc2**

Locus: 116 (Sort: 136)

Status: Replicated

80% power: No

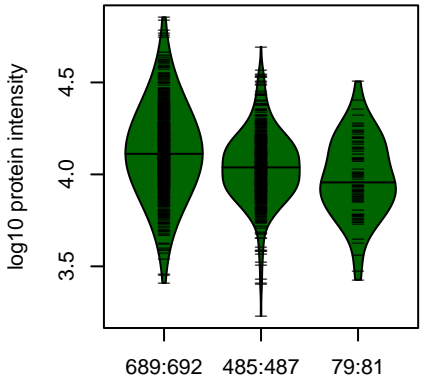
SNP: 9:136137065:A:G

rsID: rs687621

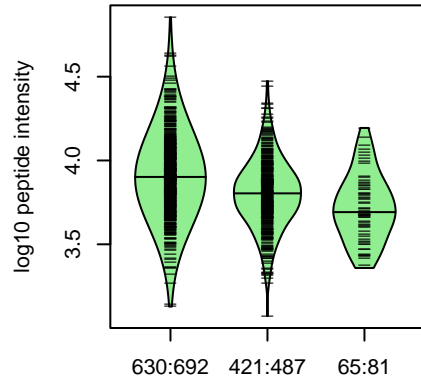
UniProtID: P28906

HGNC gene: CD34

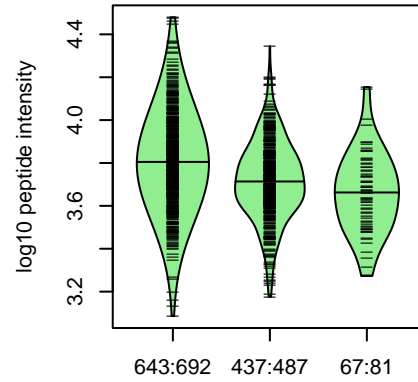
Type: Trans-pQTL

LTBP3 [cis]

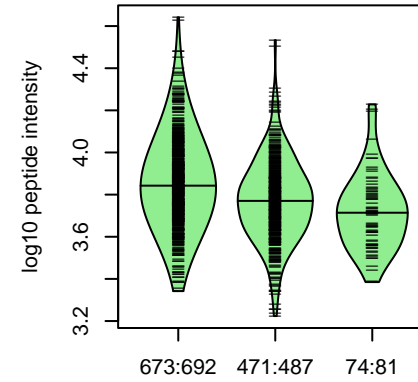
11:65322548:C:T_T
 $p = 6.9e-17$, $\beta = -0.378$, $N = 1253$

DCQLPESPAER pc2

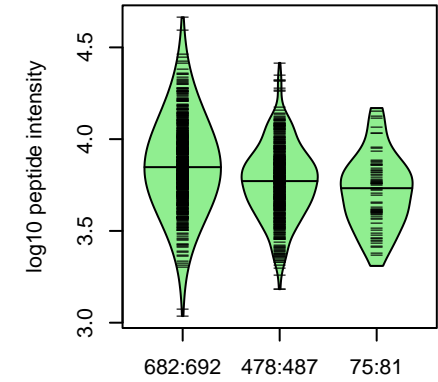
11:65322548:C:T_T
 $p = 9.6e-21$, $\beta = -0.451$, $N = 1116$

GYTQDNNIVNYGIPAHR pc3

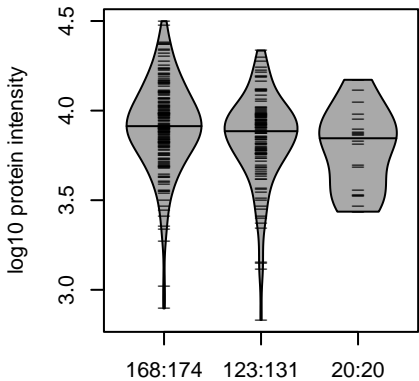
11:65322548:C:T_T
 $p = 1.8e-17$, $\beta = -0.407$, $N = 1147$

SCVDLNECAK pc2

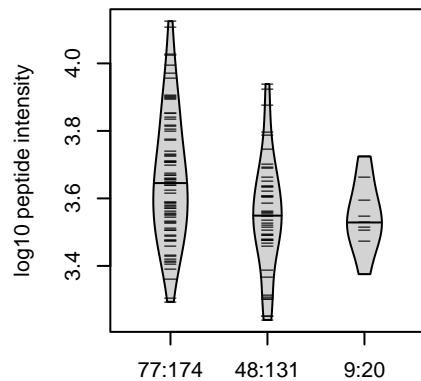
11:65322548:C:T_T
 $p = 1.9e-17$, $\beta = -0.392$, $N = 1218$

CIACQPGYR pc2

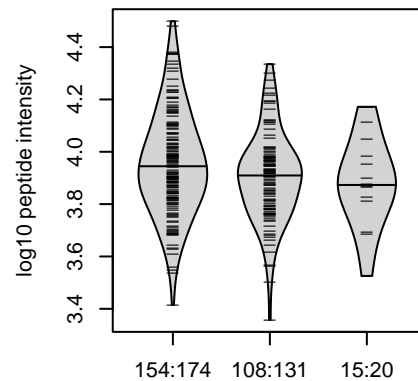
11:65322548:C:T_T
 $p = 3.8e-17$, $\beta = -0.386$, $N = 1235$

Q9NS15 NP5

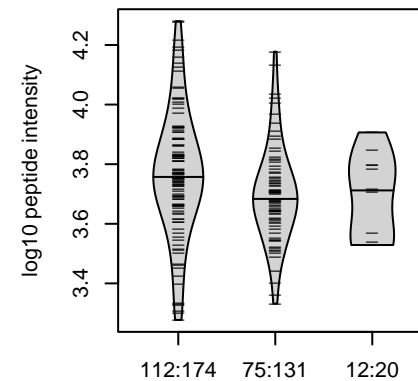
rs12270054
 $p = 0.003$, $\beta = -0.269$, $N = 311$

CIACQPGYR pc2

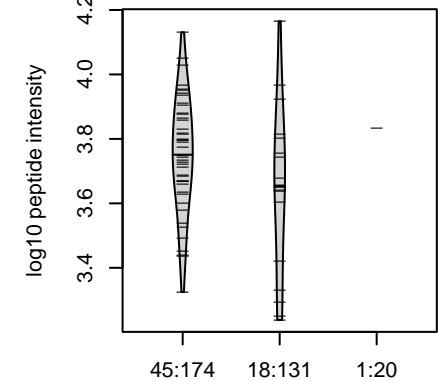
rs12270054
 $p = 0.0042$, $\beta = -0.384$, $N = 134$

VVFAPVICK pc2

rs12270054
 $p = 0.014$, $\beta = -0.241$, $N = 277$

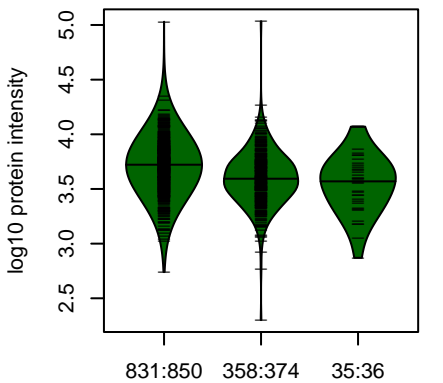
GYTQDNNIVNYGIPAHR pc3

rs12270054
 $p = 0.014$, $\beta = -0.278$, $N = 199$

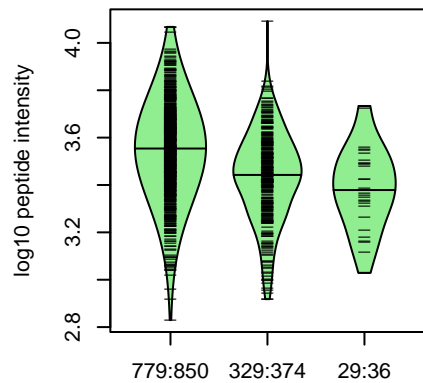
LVSPEHCQHQHPLTTR pc4

rs12270054
 $p = 0.032$, $\beta = -0.511$, $N = 64$

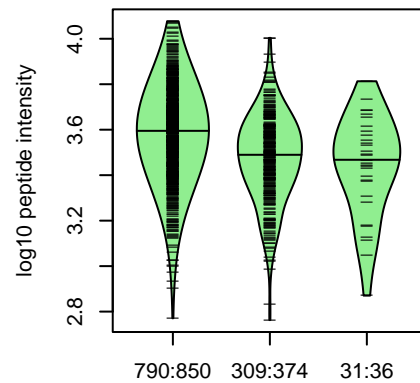
Locus: 117 (Sort: 137)
 Status: Not replicated
 80% power: No
 SNP: 11:65322548:C:T
 rsID: rs12270054
 UniProtID: Q9NS15
 HGNC gene: LTBP3
 Type: Cis-pQTL

ICAM1 [trans]

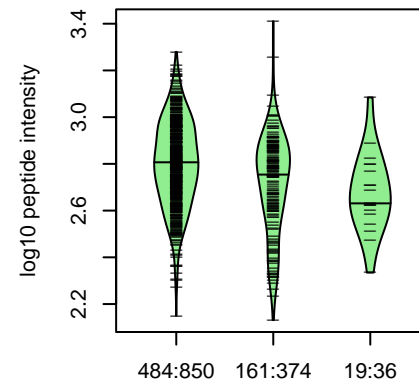
9:136149399:G:A_A
 $p = 1.3e-16$, $\beta = -0.436$, $N = 1224$

LLGIETPLPK pc2

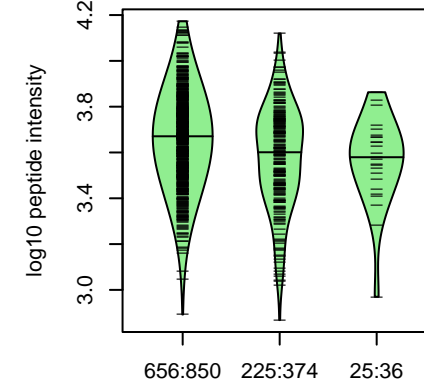
9:136149399:G:A_A
 $p = 3.3e-21$, $\beta = -0.522$, $N = 1137$

VTLNGVPAQPLGPR pc2

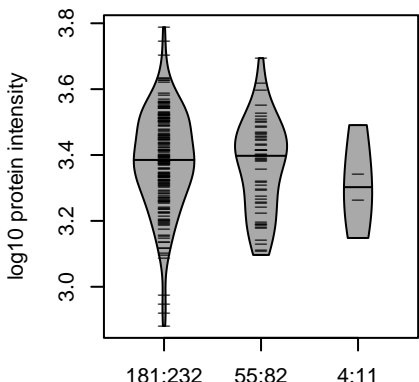
9:136149399:G:A_A
 $p = 1.4e-16$, $\beta = -0.46$, $N = 1130$

GGSVLVTCTSCDQPK pc2

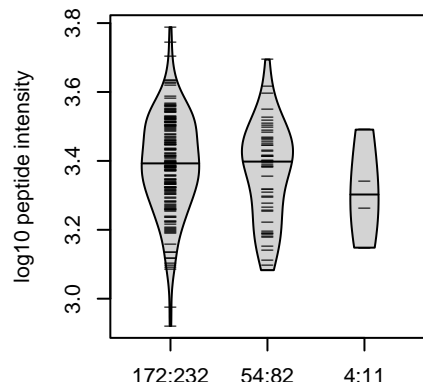
9:136149399:G:A_A
 $p = 1.2e-07$, $\beta = -0.39$, $N = 664$

REPAVGEPAEVTTTTLVLR pc3

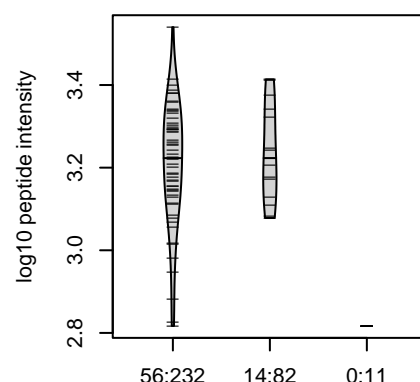
9:136149399:G:A_A
 $p = 3.2e-07$, $\beta = -0.325$, $N = 906$

P05362 NP4

rs507666
 $p = 0.19$, $\beta = -0.17$, $N = 240$

VTLNGVPAQPLGPR pc2

rs507666
 $p = 0.093$, $\beta = -0.226$, $N = 230$

LLGIETPLPK pc2

rs507666
 $p = 0.46$, $\beta = 0.213$, $N = 70$

Locus: 118 (Sort: 138)

Status: Not replicated

80% power: No

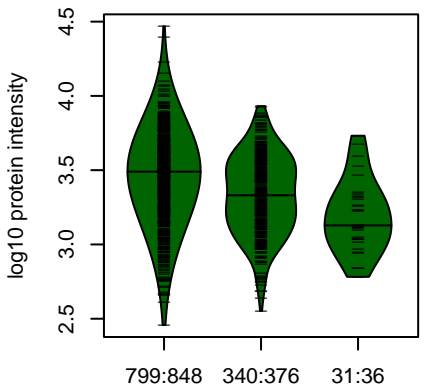
SNP: 9:136149399:G:A

rsID: rs507666

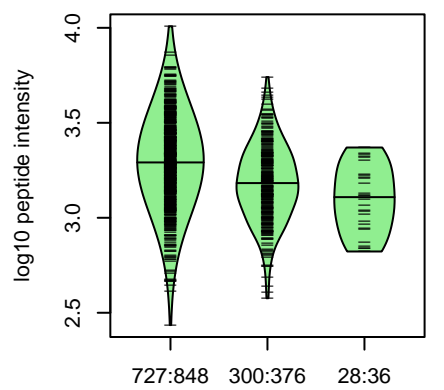
UniProtID: P05362

HGNC gene: ICAM1

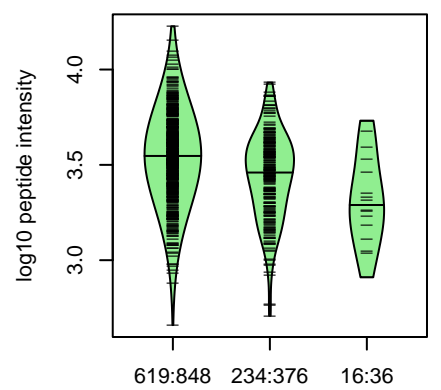
Type: Trans-pQTL

GPR116 [trans]

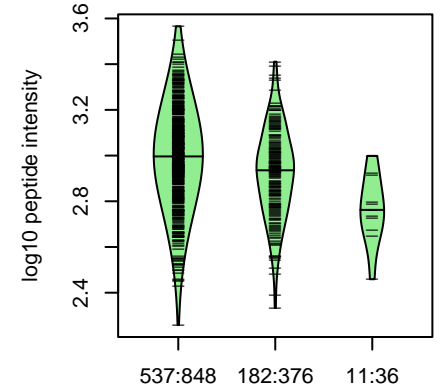
9:136155000:C:T_T
 $p = 1.3e-15$, $\beta = -0.435$, $N = 1170$

DVIVHPLPLK pc2

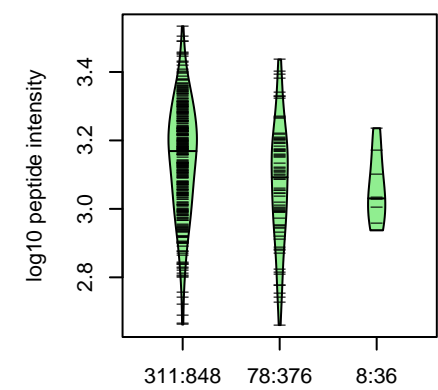
9:136155000:C:T_T
 $p = 6.4e-16$, $\beta = -0.464$, $N = 1055$

LNIMVDPLEATVSCSGSHHIK pc4

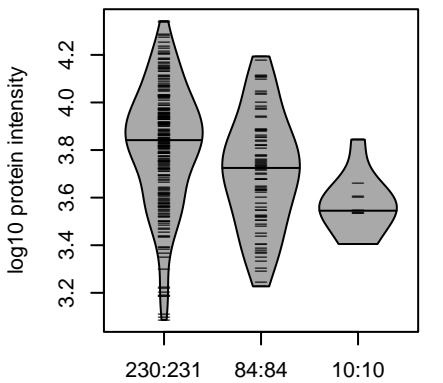
9:136155000:C:T_T
 $p = 7.6e-10$, $\beta = -0.411$, $N = 869$

LILDIFEYECK pc2

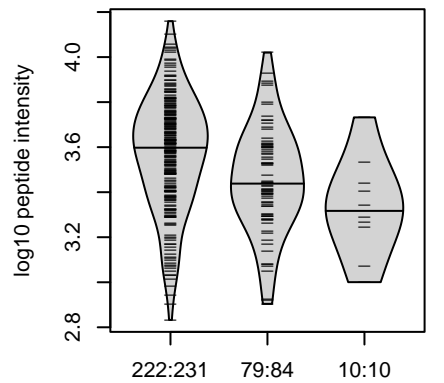
9:136155000:C:T_T
 $p = 1.4e-06$, $\beta = -0.366$, $N = 730$

CCIEEDGDYK pc2

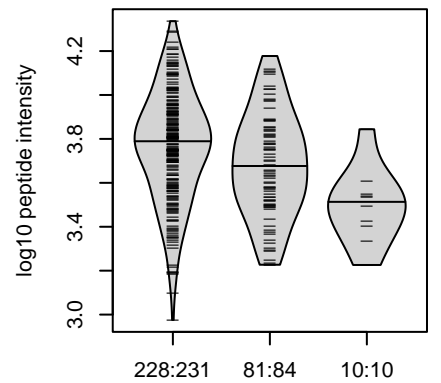
9:136155000:C:T_T
 $p = 0.00033$, $\beta = -0.376$, $N = 397$

Q8IZF2 NP2

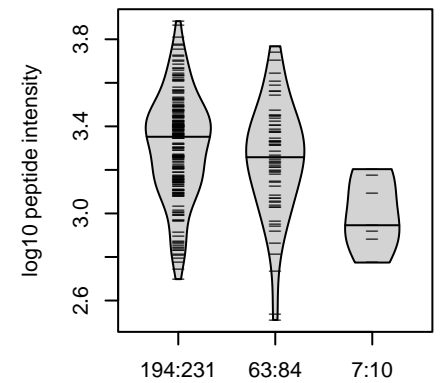
rs635634
 $p = 1.5e-05$, $\beta = -0.447$, $N = 324$

DVIVHPLPLK pc2

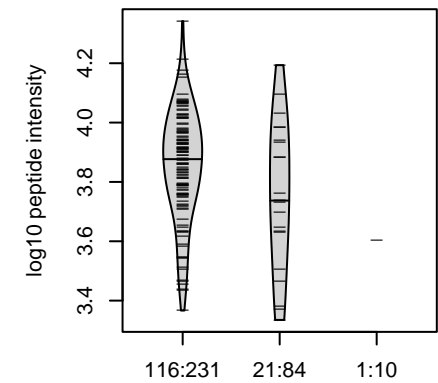
rs635634
 $p = 4.3e-05$, $\beta = -0.427$, $N = 311$

LNIMVDPLEATVSCSGSHHIK pc4

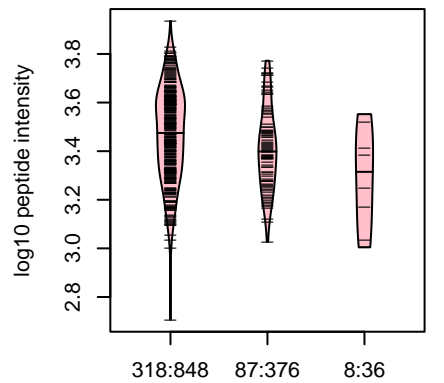
rs635634
 $p = 0.00015$, $\beta = -0.393$, $N = 319$

LILDIFEYECK pc2

rs635634
 $p = 0.0028$, $\beta = -0.353$, $N = 264$

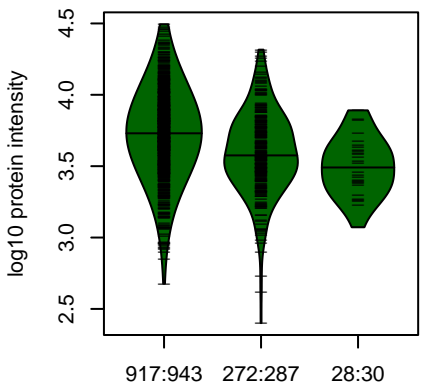
CVGSQWEEK pc2

rs635634
 $p = 0.021$, $\beta = -0.485$, $N = 138$

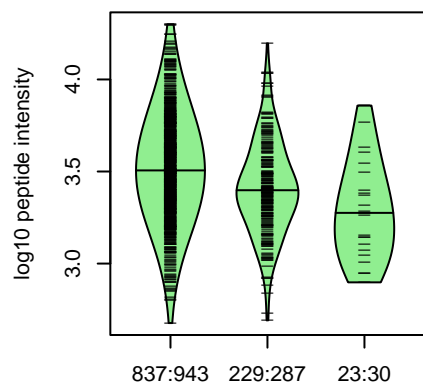
**VTFHMGSSSLPAAK pc3
rs586024 ALT**

9:136155000:C:T_T
 $p = 2.1e-07$, $\text{model} = \text{REC}$, $N = 413$

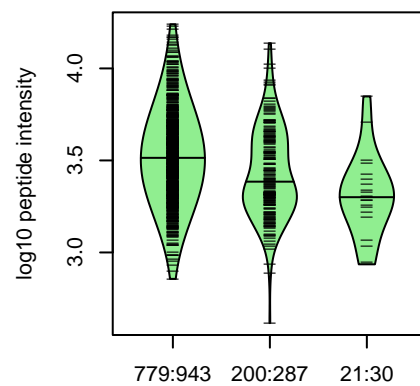
Locus: 118 (Sort: 139)
 Status: Replicated
 80% power: No
 SNP: 9:136155000:C:T
 rsID: rs635634
 UniProtID: Q8IZF2
 HGNC gene: GPR116
 Type: Trans-pQTL

CDH19 [cis]

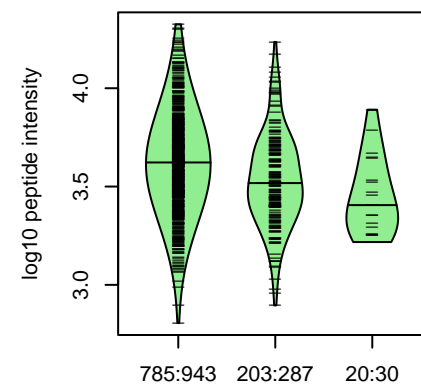
18:64116504:G:C_C
 $p = 1.6e-16$, $\beta = -0.471$, $N = 1217$

MDRELQDEYWIIQAK pc3

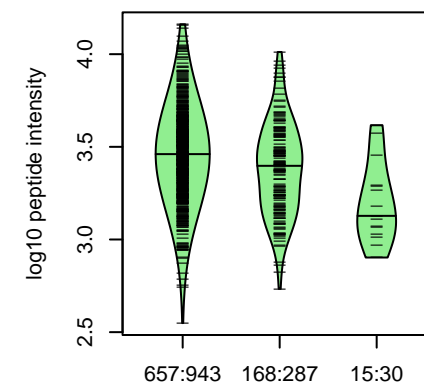
18:64116504:G:C_C
 $p = 5.3e-11$, $\beta = -0.408$, $N = 1089$

VSDINDNEPK pc2

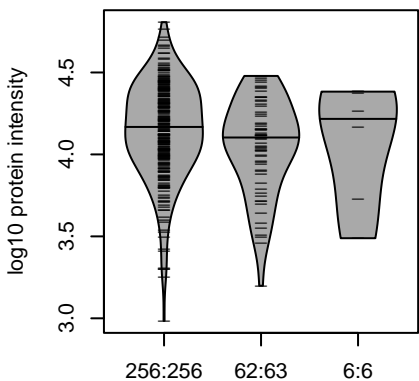
18:64116504:G:C_C
 $p = 7.1e-10$, $\beta = -0.405$, $N = 1000$

TGDIYAIQK pc2

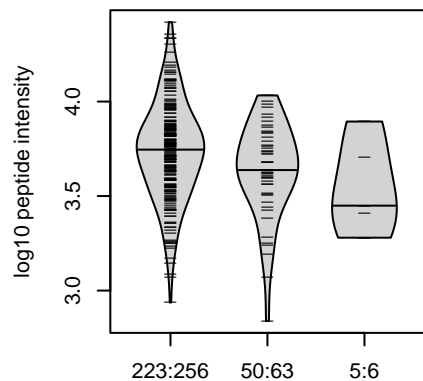
18:64116504:G:C_C
 $p = 5.8e-09$, $\beta = -0.384$, $N = 1008$

LLGAGAGSTFIIDER pc2

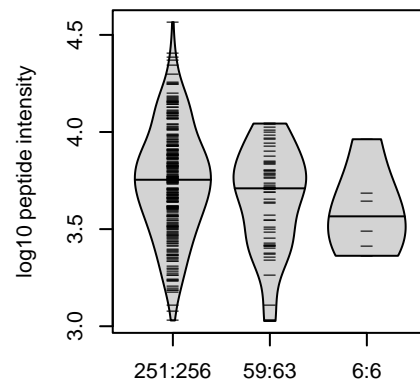
18:64116504:G:C_C
 $p = 1.1e-07$, $\beta = -0.388$, $N = 840$

Q9H159 NP2

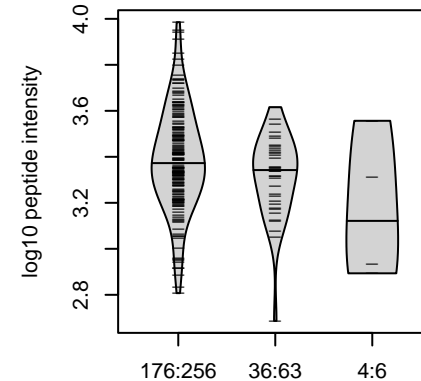
rs985088
 $p = 0.042$, $\beta = -0.243$, $N = 324$

LLGAGAGSTFIIDER pc2

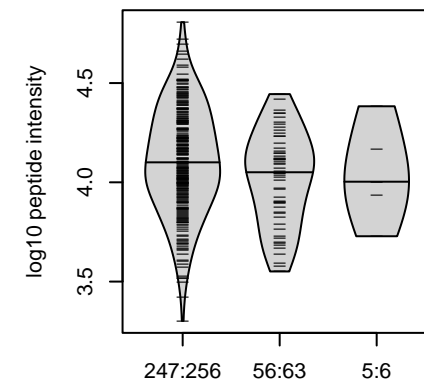
rs985088
 $p = 0.012$, $\beta = -0.326$, $N = 278$

VSDINDNEPK pc2

rs985088
 $p = 0.016$, $\beta = -0.29$, $N = 316$

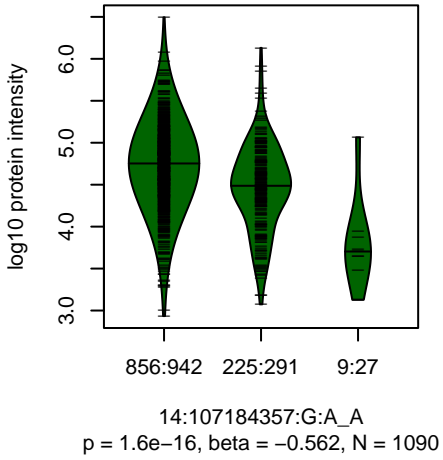
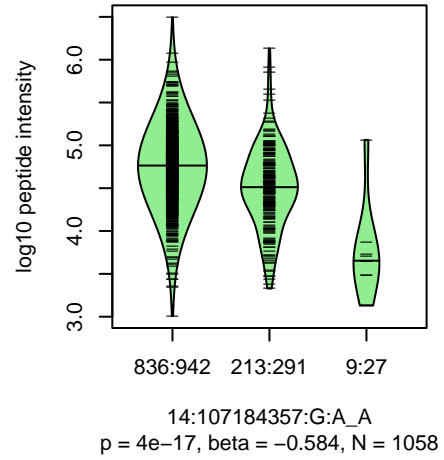
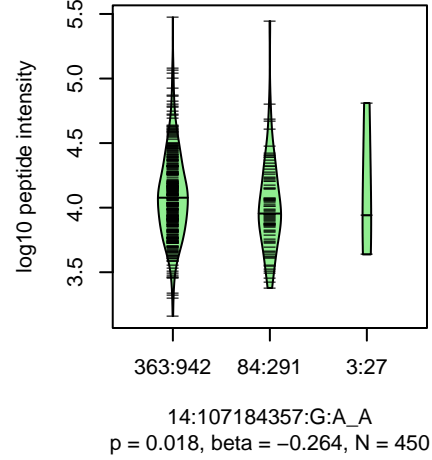
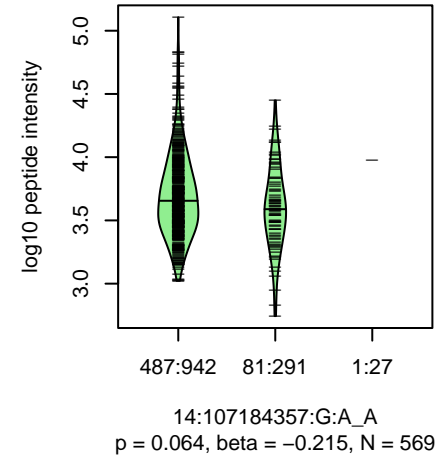
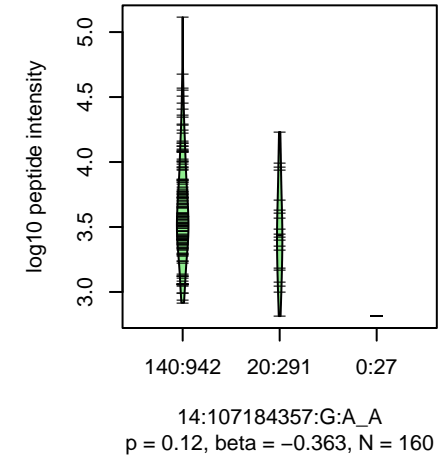
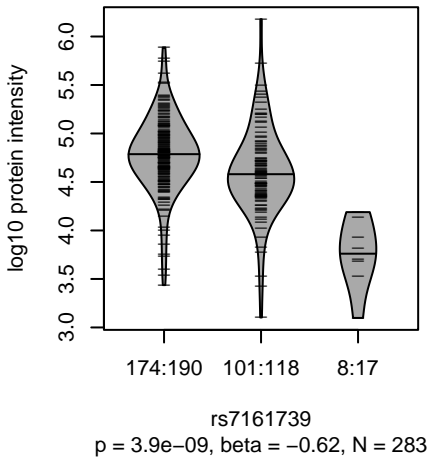
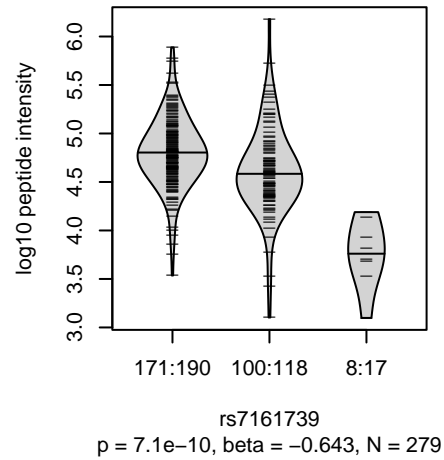
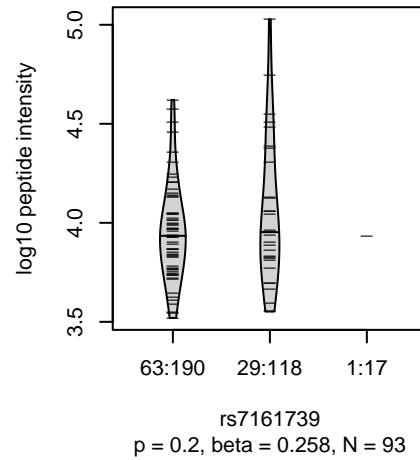
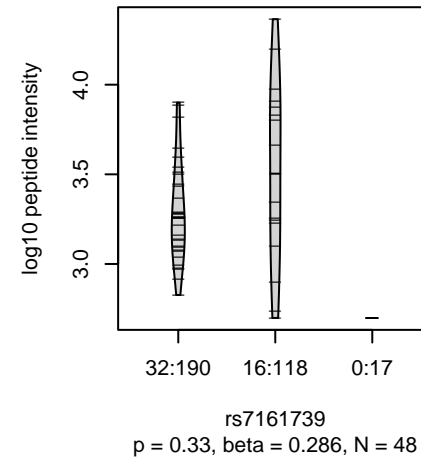
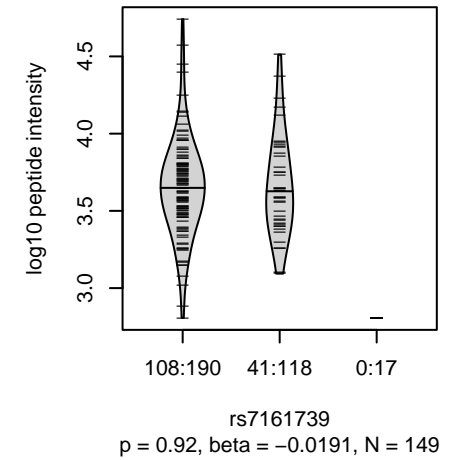
LSDVNDNKPIFK pc3

rs985088
 $p = 0.018$, $\beta = -0.351$, $N = 216$

AVEPESEFVIK pc2

rs985088
 $p = 0.051$, $\beta = -0.244$, $N = 308$

Locus: 119 (Sort: 140)
 Status: Not replicated
 80% power: No
 SNP: 18:64116504:G:C
 rsID: rs985088
 UniProtID: Q9H159
 HGNC gene: CDH19
 Type: Cis-pQTL

IGHV2-70 [cis]**ALEWLAR pc2****FYSTSLK pc2****IDWDDDK pc2****ESGPALVK pc2****A0A0C4DH43 NP3****ALEWLAR pc2****FYSTSLK pc2****ESGPALVK pc2****IDWDDDK pc2**

Locus: 120 (Sort: 141)

Status: Replicated

80% power: No

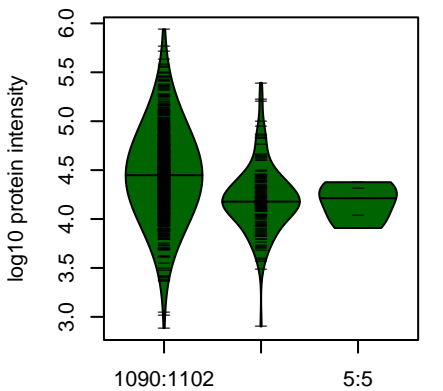
SNP: 14:107184357:G:A

rsID: rs7161739

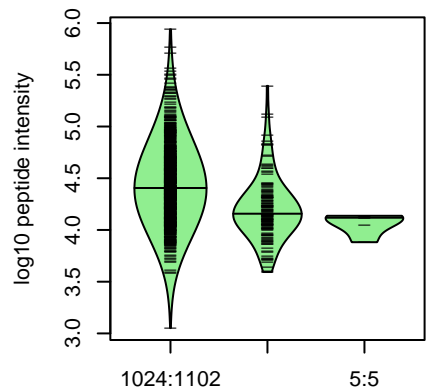
UniProtID: A0A0C4DH43

HGNC gene: IGHV2-70

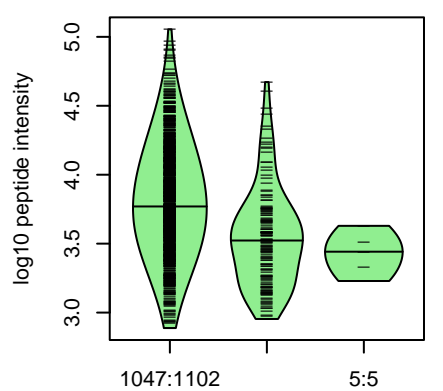
Type: Cis-pQTL

MBL2 [cis]

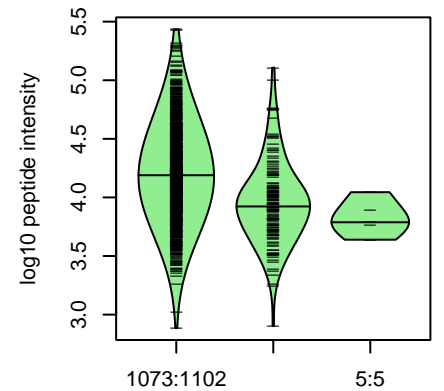
10:54600666:A:C_C
 $p = 2.5e-16$, $\beta = -0.654$, $N = 1248$

FQASVATPR pc2

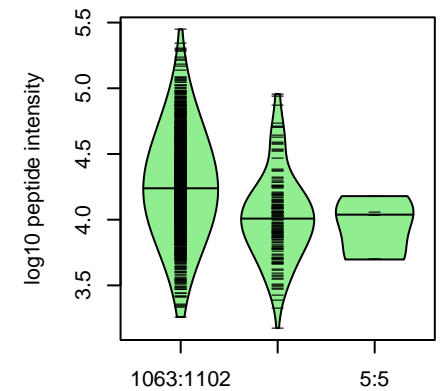
10:54600666:A:C_C
 $p = 1.3e-16$, $\beta = -0.694$, $N = 1164$

FFLTNGEIMTFEK pc2

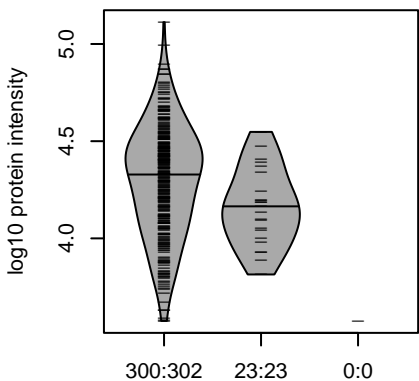
10:54600666:A:C_C
 $p = 2.9e-16$, $\beta = -0.672$, $N = 1194$

WLTFSLGK pc2

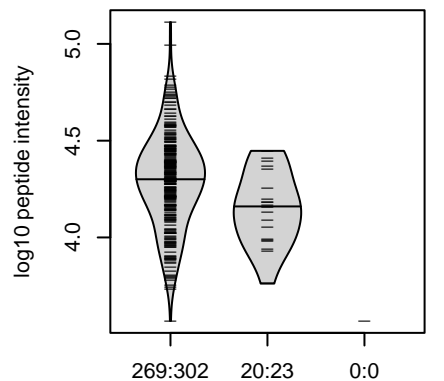
10:54600666:A:C_C
 $p = 7.6e-16$, $\beta = -0.657$, $N = 1223$

TEGQFVDLTGNR pc2

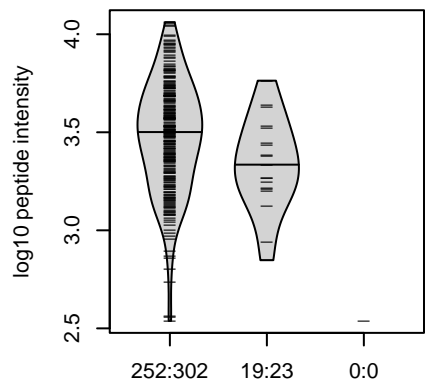
10:54600666:A:C_C
 $p = 3.1e-15$, $\beta = -0.645$, $N = 1212$

P11226 NP2

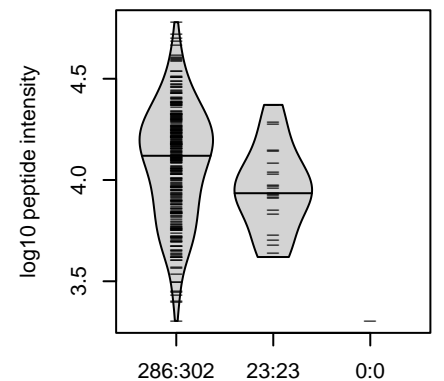
rs11003205
 $p = 0.021$, $\beta = -0.492$, $N = 323$

FQASVATPR pc2

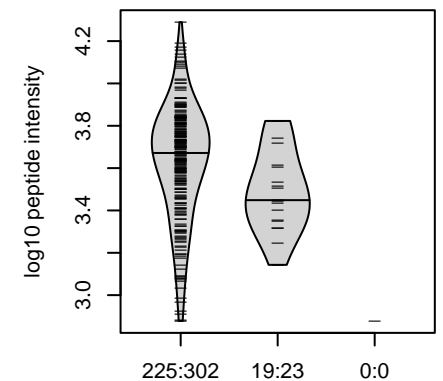
rs11003205
 $p = 0.0099$, $\beta = -0.587$, $N = 289$

NAAENGAIQNLIK pc2

rs11003205
 $p = 0.033$, $\beta = -0.5$, $N = 271$

WLTFSLGK pc2

rs11003205
 $p = 0.033$, $\beta = -0.455$, $N = 309$

FFLTNGEIMTFEK pc2

rs11003205
 $p = 0.039$, $\beta = -0.484$, $N = 244$

Locus: 121 (Sort: 142)

Status: Not replicated

80% power: No

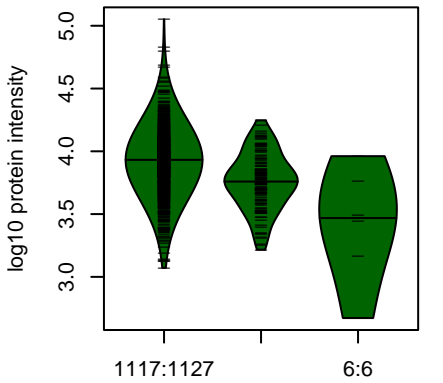
SNP: 10:54600666:A:C

rsID: rs11003205

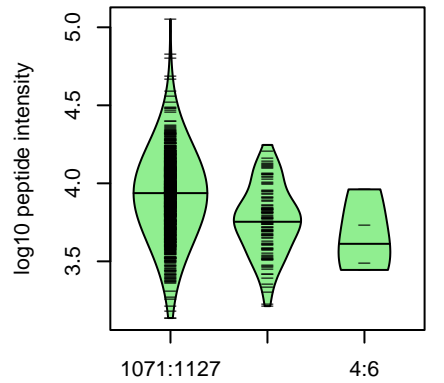
UniProtID: P11226

HGNC gene: MBL2

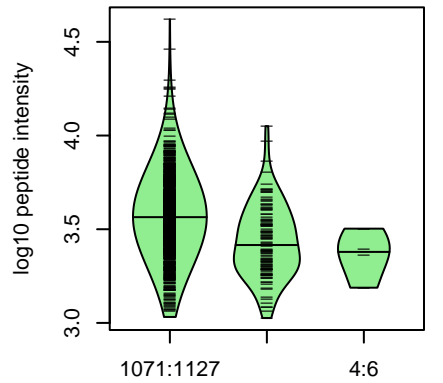
Type: Cis-pQTL

FN3K [cis]

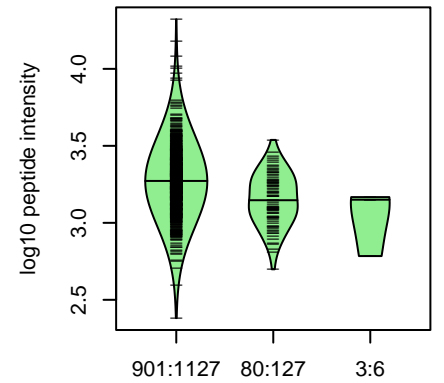
17:80777358:T:A_A
 $p = 2.6e-16$, $\beta = -0.706$, $N = 1243$

VIDLPGGGAAFVMEHLK pc3

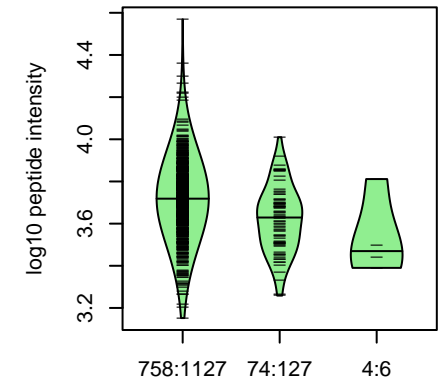
17:80777358:T:A_A
 $p = 2.5e-13$, $\beta = -0.674$, $N = 1185$

AYDTDAGPVFVK pc2

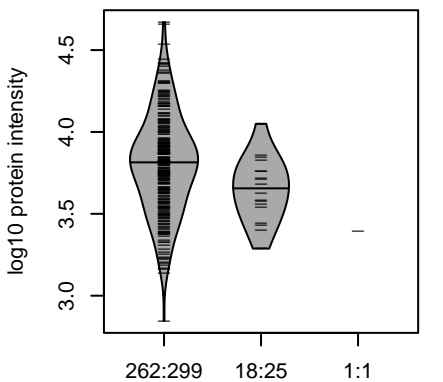
17:80777358:T:A_A
 $p = 1.4e-12$, $\beta = -0.658$, $N = 1183$

QMFEGEVASLEALR pc2

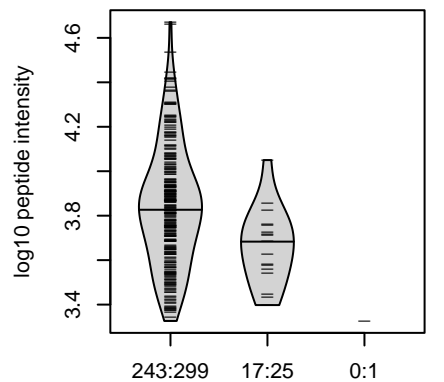
17:80777358:T:A_A
 $p = 2.3e-09$, $\beta = -0.641$, $N = 984$

LQAQLDLIEK pc2

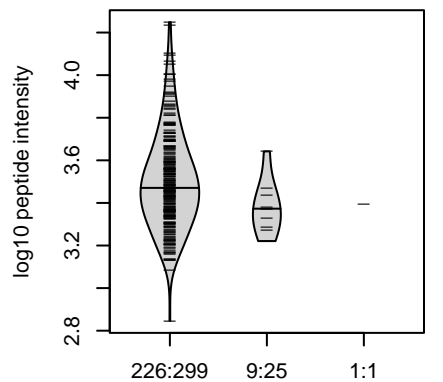
17:80777358:T:A_A
 $p = 8.4e-08$, $\beta = -0.584$, $N = 836$

Q9H479 NP1

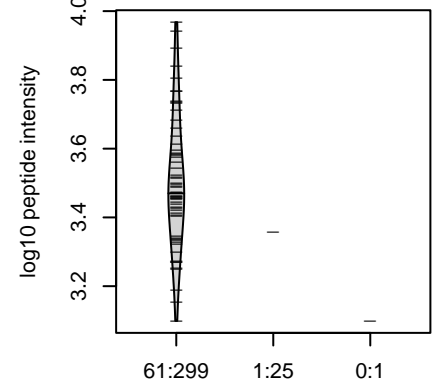
rs117095480
 $p = 0.025$, $\beta = -0.488$, $N = 281$

VIDLPGGGAAFVMEHLK pc3

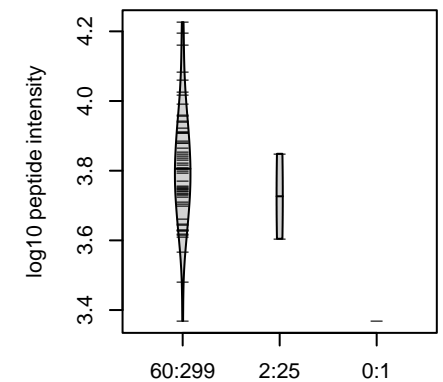
rs117095480
 $p = 0.03$, $\beta = -0.536$, $N = 260$

AYDTDAGPVFVK pc2

rs117095480
 $p = 0.14$, $\beta = -0.407$, $N = 236$

LGEQMADLHLYNQK pc3

rs117095480
 $p = 0.59$, $\beta = -0.528$, $N = 62$

SPSLGTMR pc2

rs117095480
 $p = 0.81$, $\beta = -0.167$, $N = 62$

Locus: 122 (Sort: 143)

Status: Not replicated

80% power: No

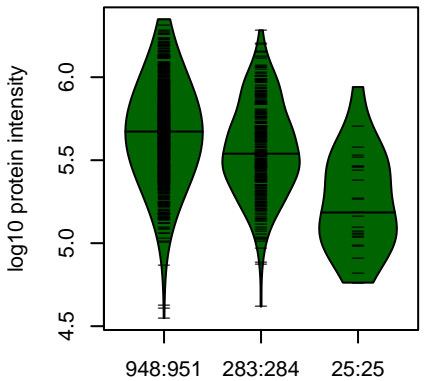
SNP: 17:80777358:T:A

rsID: rs117095480

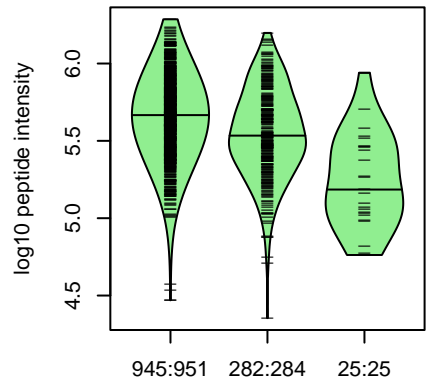
UniProtID: Q9H479

HGNC gene: FN3K

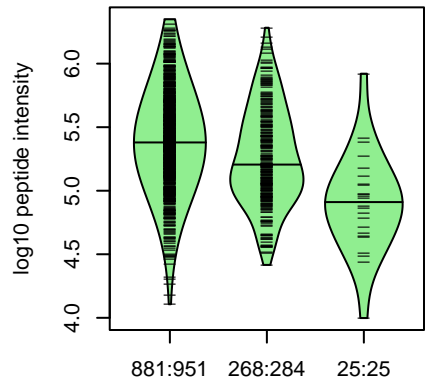
Type: Cis-pQTL

SAA1 [cis]

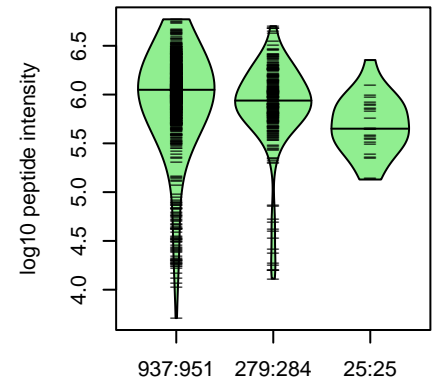
11:18278423:A:C_C
 $p = 4.7e-16$, $\beta = -0.465$, $N = 1256$

DPNHFRPAGLPEK pc3

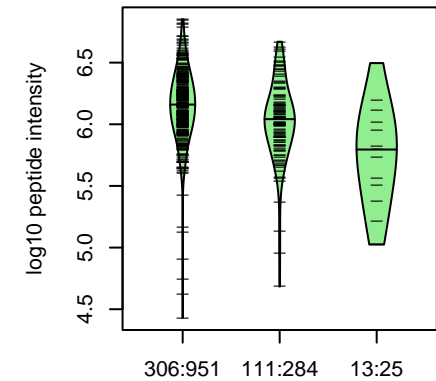
11:18278423:A:C_C
 $p = 1.1e-15$, $\beta = -0.46$, $N = 1252$

FFGHGAEDSLADQAANEWGR pc3

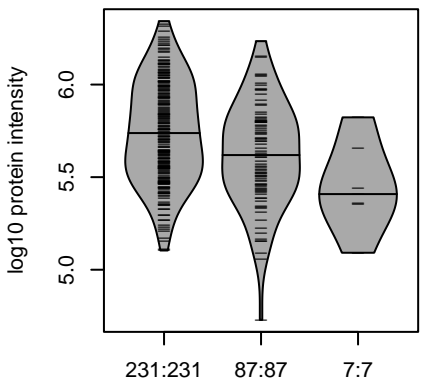
11:18278423:A:C_C
 $p = 1.8e-11$, $\beta = -0.395$, $N = 1174$

SFFSFLGEAFDGR pc2

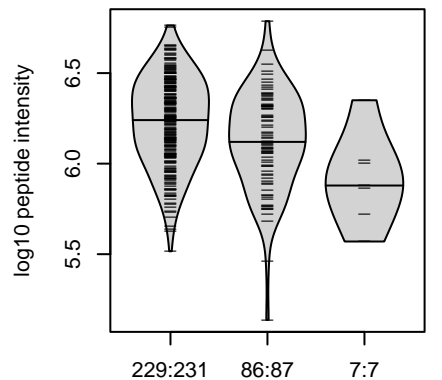
11:18278423:A:C_C
 $p = 1.9e-07$, $\beta = -0.302$, $N = 1241$

EANYIGSDK pc2

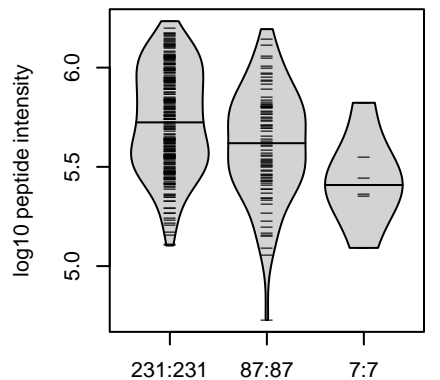
11:18278423:A:C_C
 $p = 5.8e-06$, $\beta = -0.406$, $N = 430$

E9PQD6 NP2

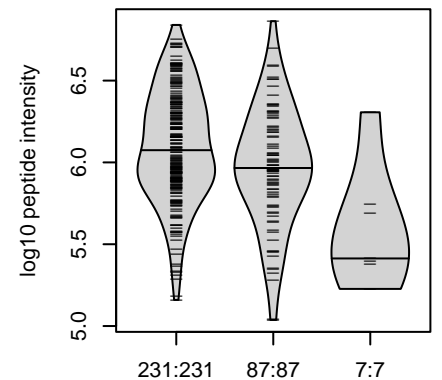
rs11024589
 $p = 1.5e-07$, $\beta = -0.562$, $N = 325$

SFFSFLGEAFDGR pc2

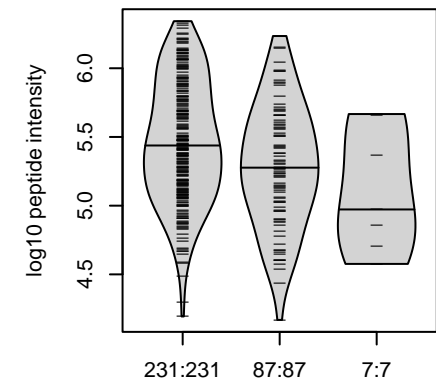
rs11024589
 $p = 8.1e-08$, $\beta = -0.569$, $N = 322$

DPNHFRPAGLPEK pc3

rs11024589
 $p = 1e-07$, $\beta = -0.563$, $N = 325$

EANYIGSDK pc2

rs11024589
 $p = 1.8e-06$, $\beta = -0.508$, $N = 325$

FFGHGAEDSLADQAANEWGR pc3

rs11024589
 $p = 8e-06$, $\beta = -0.475$, $N = 325$

Locus: 123 (Sort: 144)

Status: Replicated

80% power: No

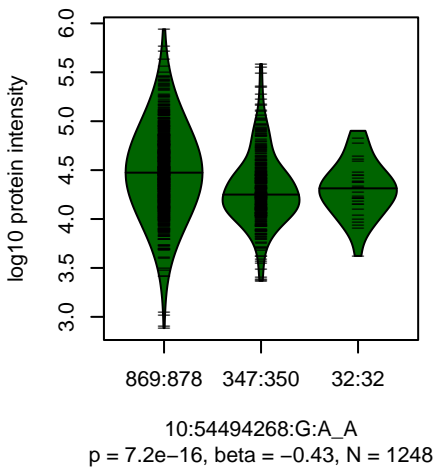
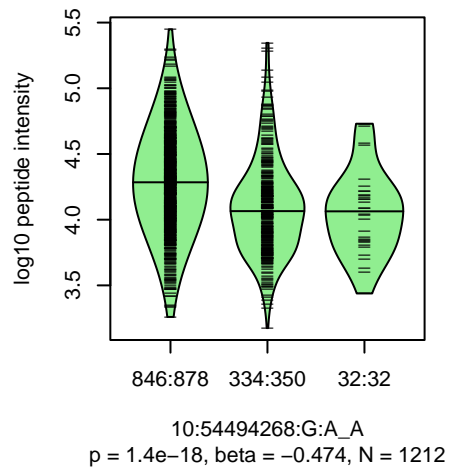
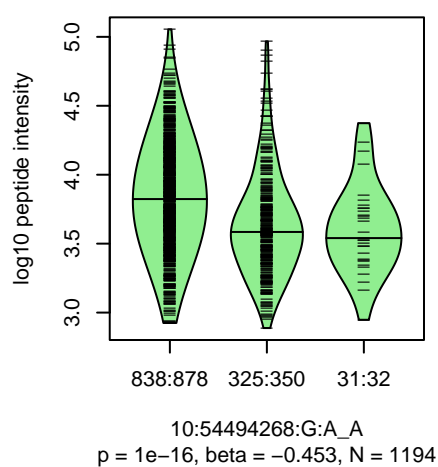
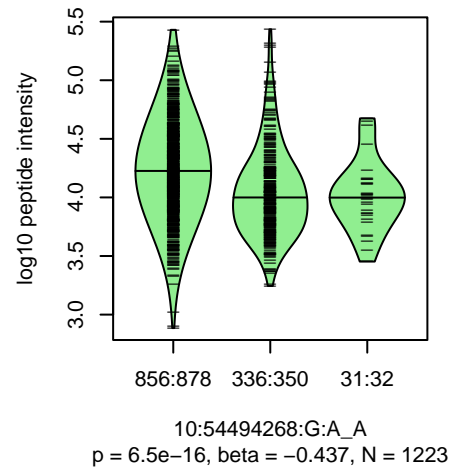
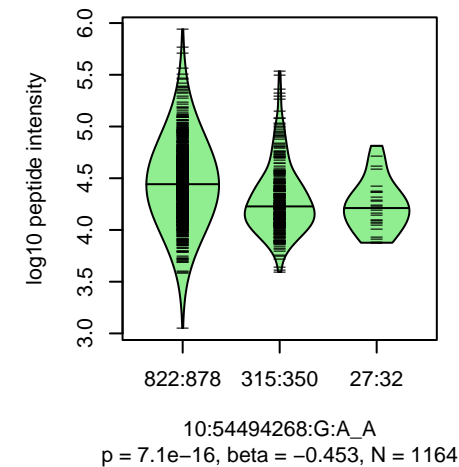
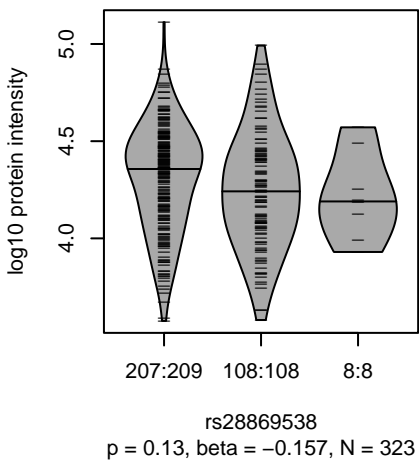
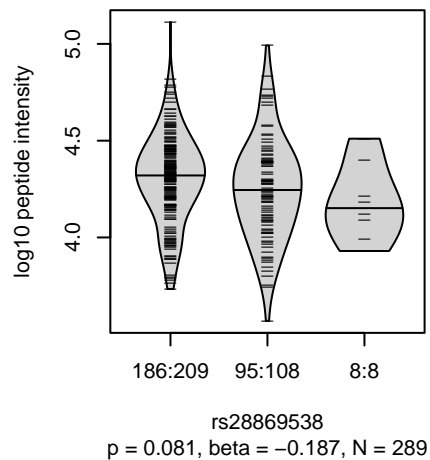
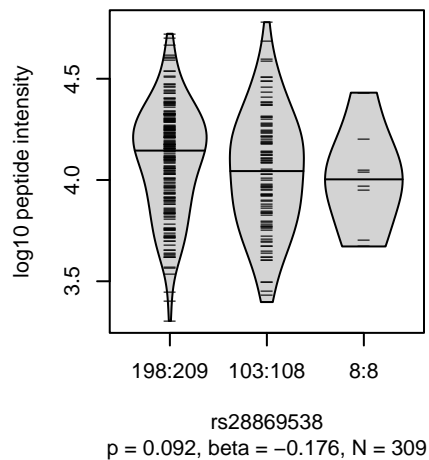
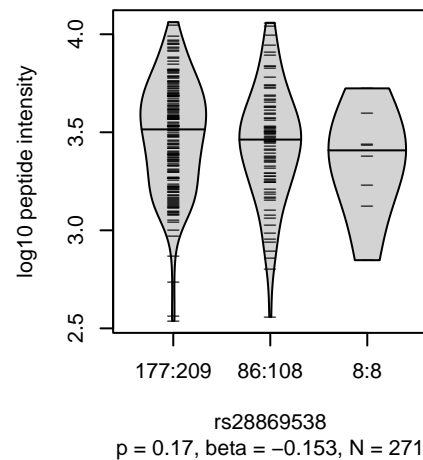
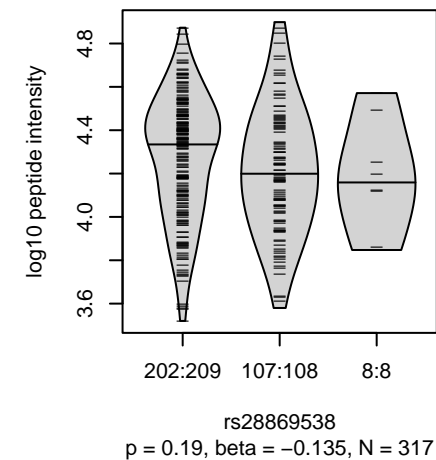
SNP: 11:18278423:A:C

rsID: rs11024589

UniProtID: E9PQD6

HGNC gene: SAA1

Type: Cis-pQTL

MBL2 [cis]**TEGQFVDLTG NR pc2****FFLTNGEIMTFEK pc2****WLTFSLGK pc2****FQASVATPR pc2****P11226 NP2****FQASVATPR pc2****WLTFSLGK pc2****NAAENGAIQNLIK pc2****EEAFLGITDEK pc2**

Locus: 124 (Sort: 145)

Status: Not replicated

80% power: No

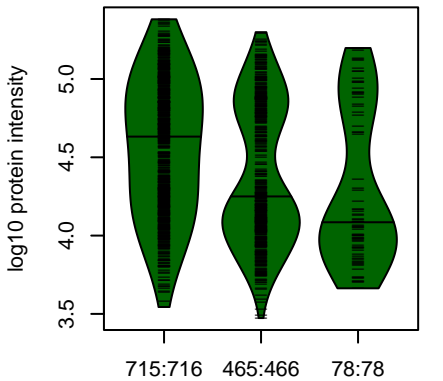
SNP: 10:54494268:G:A

rsID: rs28869538

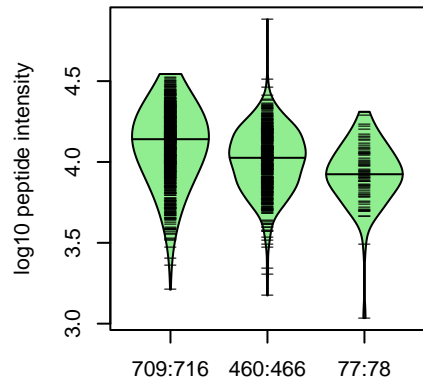
UniProtID: P11226

HGNC gene: MBL2

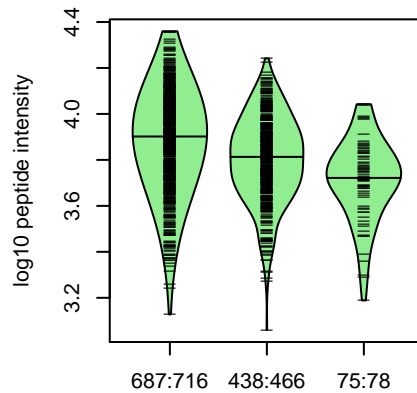
Type: Cis-pQTL

C1RL [trans]

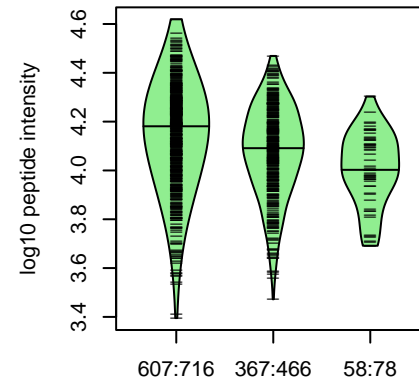
11:57381263:T:C_C
 $p = 9.4e-16$, $\beta = -0.364$, $N = 1258$

LGTFPWQAFTSIHGR pc3

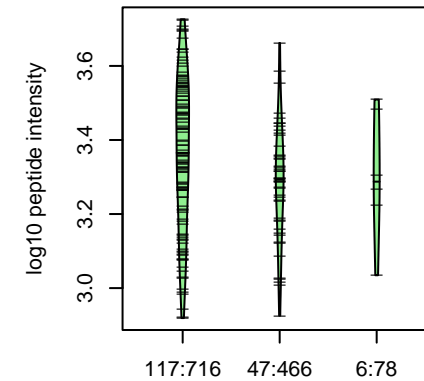
11:57381263:T:C_C
 $p = 1.7e-22$, $\beta = -0.442$, $N = 1246$

GSEAINAPGDNPAK pc2

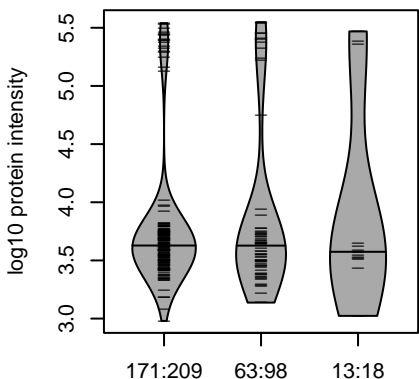
11:57381263:T:C_C
 $p = 4.8e-19$, $\beta = -0.412$, $N = 1200$

APEGFAVR pc2

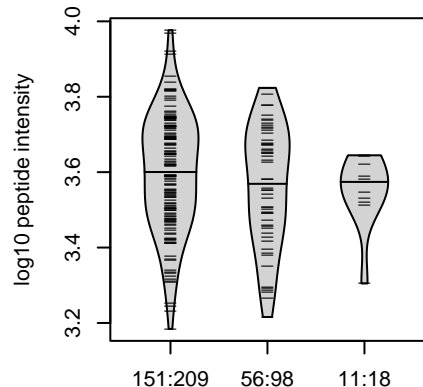
11:57381263:T:C_C
 $p = 8.1e-13$, $\beta = -0.364$, $N = 1032$

EACNAWLQK pc2

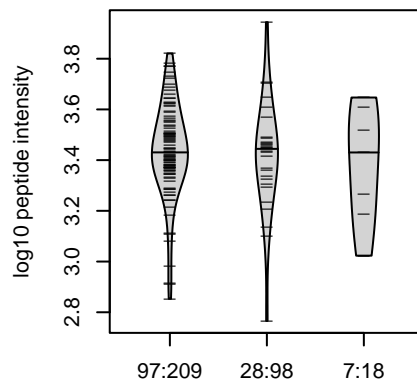
11:57381263:T:C_C
 $p = 0.12$, $\beta = -0.214$, $N = 170$

Q9NZP8 NP4

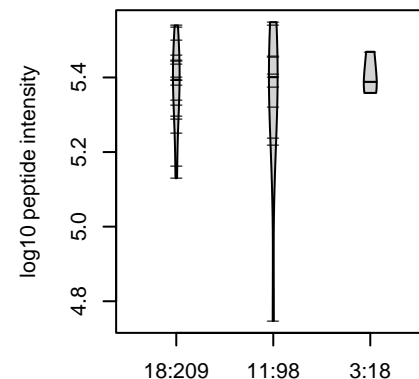
rs10896631
 $p = 0.65$, $\beta = -0.0487$, $N = 247$

LGTFPWQAFTSIHGR pc3

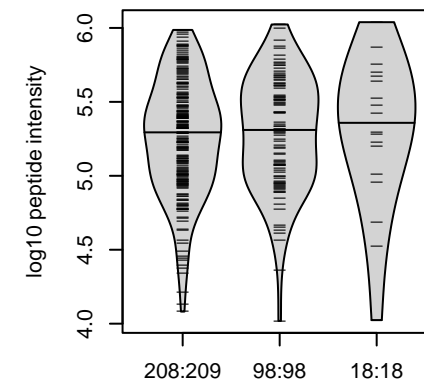
rs10896631
 $p = 0.051$, $\beta = -0.225$, $N = 218$

GSEAINAPGDNPAK pc2

rs10896631
 $p = 0.25$, $\beta = -0.174$, $N = 132$

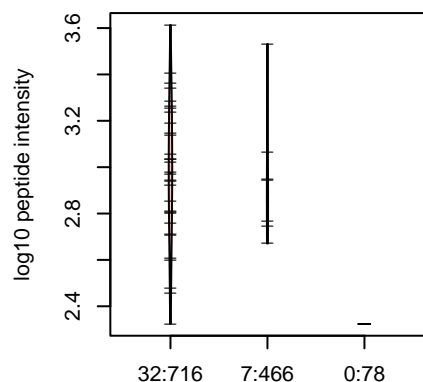
VVVHPDYR pc2

rs10896631
 $p = 0.56$, $\beta = -0.148$, $N = 32$

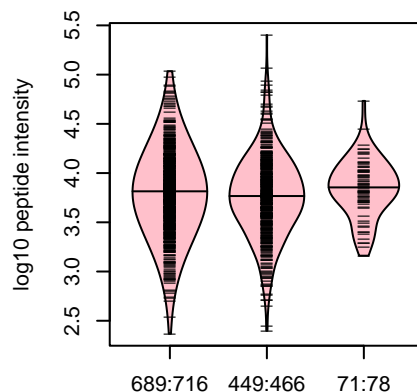
GGGALLGDR pc2

rs10896631
 $p = 0.6$, $\beta = 0.0479$, $N = 324$

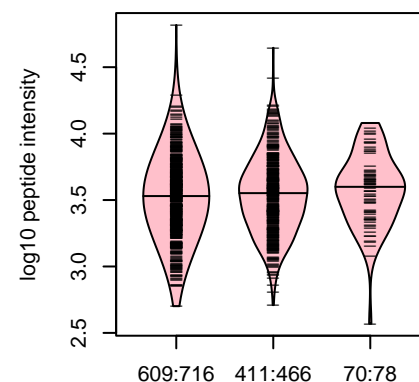
Locus: 125 (Sort: 146)
 Status: Not replicated
 80% power: No
 SNP: 11:57381263:T:C
 rsID: rs10896631
 UniProtID: Q9NZP8
 HGNC gene: C1RL
 Type: Trans-pQTL

**WILTAHTVYPK pc2
rs3742089 ALT**

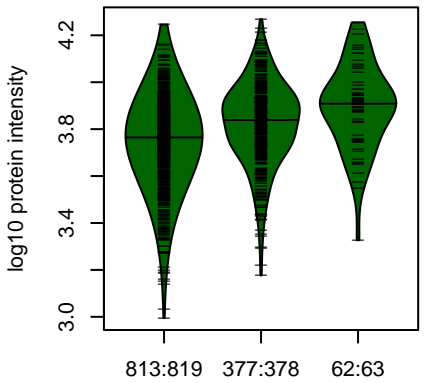
11:57381263:T:C_C
 $p = 0.00093$, $\text{model} = \text{REC}$, $N = 39$

**WILTAHTVYPK pc2
rs3742089 REF**

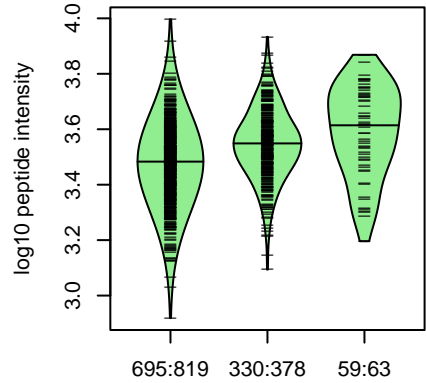
11:57381263:T:C_C
 $p = 0.034$, $\text{model} = \text{DOM}$, $N = 1209$

**GGGALLGDRWILTAHTVYPK pc3
rs3742089 REF**

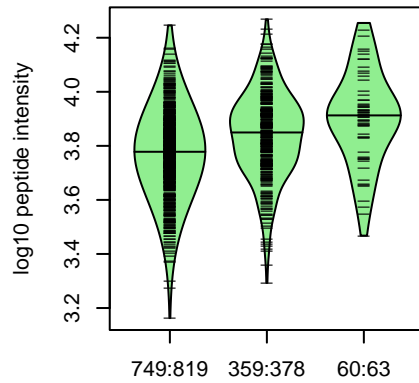
11:57381263:T:C_C
 $p = 0.096$, $\text{model} = \text{REC}$, $N = 1090$

FAM177A1 [cis]

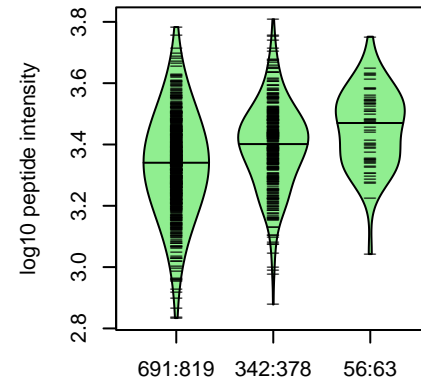
14:35485748:G:A_G
 $p = 9.7e-16$, $\beta = 0.383$, $N = 1252$

YQYAIDEYYR pc2

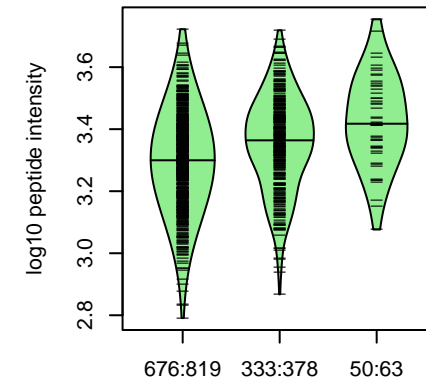
14:35485748:G:A_G
 $p = 7.2e-19$, $\beta = 0.444$, $N = 1084$

IASVLGISTPK pc2

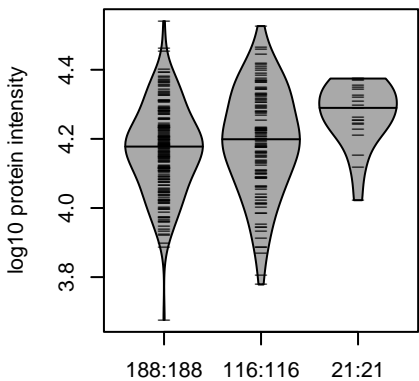
14:35485748:G:A_G
 $p = 3e-14$, $\beta = 0.372$, $N = 1168$

AATSTLSVCDLGEK pc2

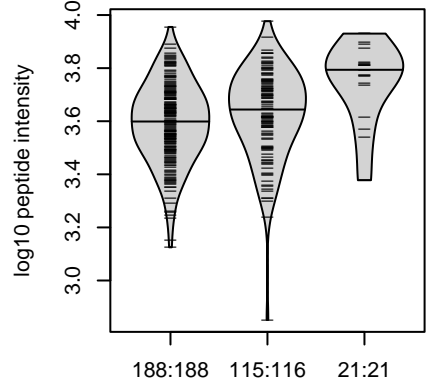
14:35485748:G:A_G
 $p = 4.2e-13$, $\beta = 0.367$, $N = 1089$

GFENVELGVIGK pc2

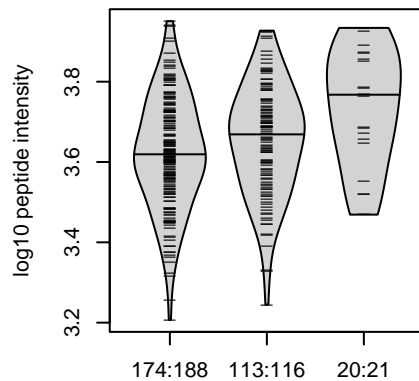
14:35485748:G:A_G
 $p = 3.9e-12$, $\beta = 0.362$, $N = 1059$

Q8N128 NP2

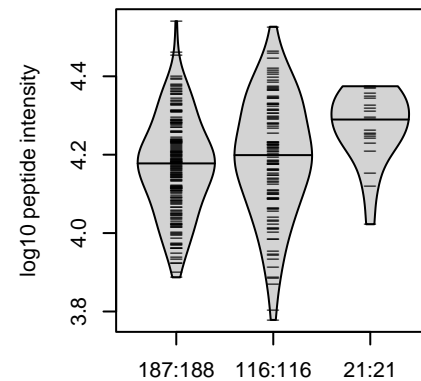
rs799459
 $p = 6e-04$, $\beta = 0.301$, $N = 325$

GFENVELGVIGK pc2

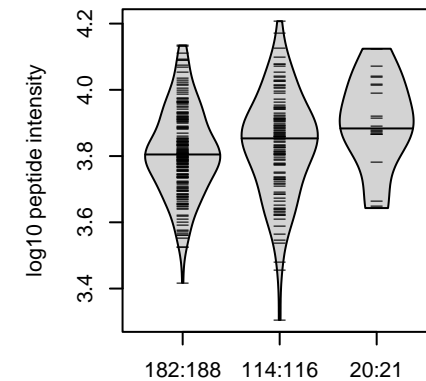
rs799459
 $p = 0.00011$, $\beta = 0.341$, $N = 324$

AATSTLSVCDLGEK pc2

rs799459
 $p = 0.00081$, $\beta = 0.303$, $N = 307$

IASVLGISTPK pc2

rs799459
 $p = 0.00091$, $\beta = 0.293$, $N = 324$

YQYAIDEYYR pc2

rs799459
 $p = 0.011$, $\beta = 0.23$, $N = 316$

Locus: 126 (Sort: 147)

Status: Not replicated

80% power: No

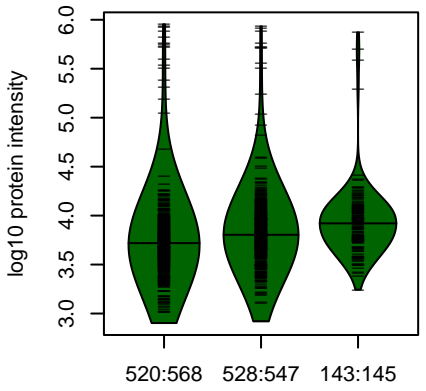
SNP: 14:35485748:G:A

rsID: rs799459

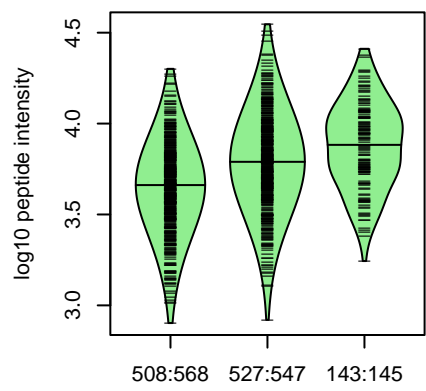
UniProtID: Q8N128

HGNC gene: FAM177A1

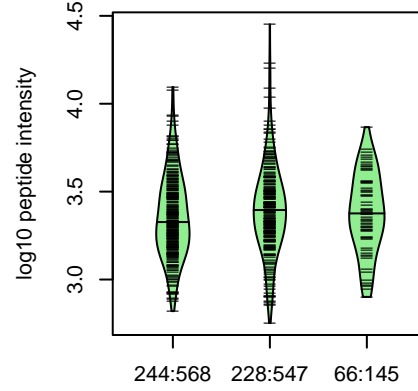
Type: Cis-pQTL

FCGR3A [cis]

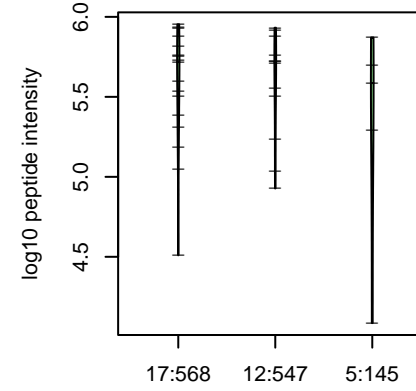
1:161588873:C:T_T
 $p = 1e-15$, $\beta = 0.338$, $N = 1191$

AVVFLEPQWYR pc2

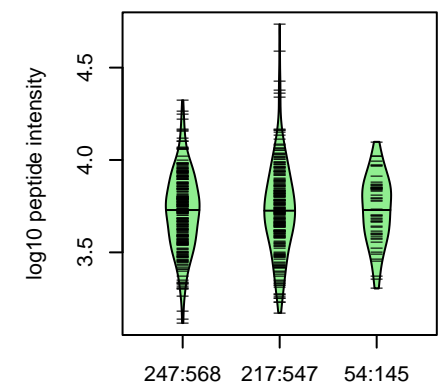
1:161588873:C:T_T
 $p = 4e-30$, $\beta = 0.476$, $N = 1178$

EEDPIHLR pc2

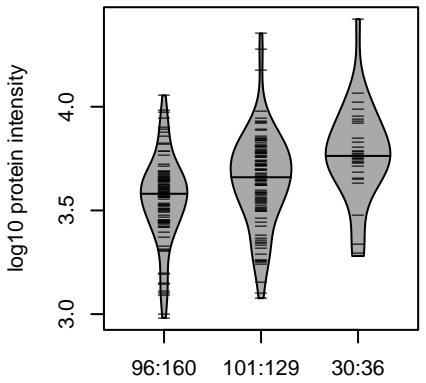
1:161588873:C:T_T
 $p = 0.18$, $\beta = 0.0838$, $N = 538$

WVFKEEDPIHLR pc3

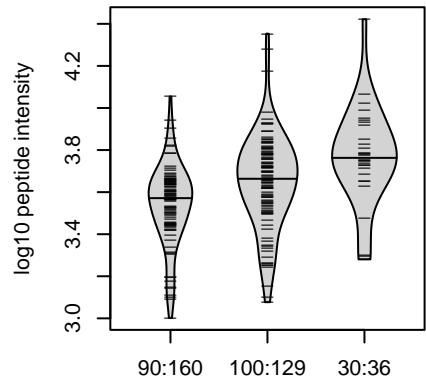
1:161588873:C:T_T
 $p = 0.34$, $\beta = -0.215$, $N = 34$

DSGSYFCR pc2

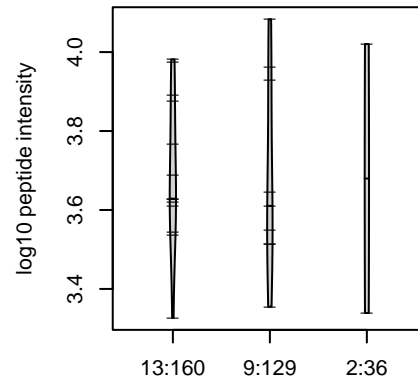
1:161588873:C:T_T
 $p = 0.61$, $\beta = 0.0334$, $N = 518$

P08637 NP1

rs111384507
 $p = 2.7e-07$, $\beta = 0.482$, $N = 227$

AVVFLEPQWYR pc2

rs111384507
 $p = 1e-07$, $\beta = 0.499$, $N = 220$

DSGSYFCR pc2

rs111384507
 $p = 0.66$, $\beta = 0.128$, $N = 24$

Locus: 127 (Sort: 148)

Status: Replicated

80% power: No

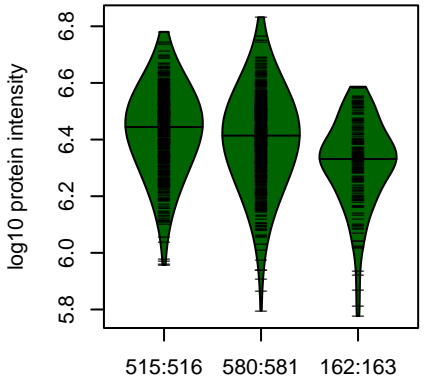
SNP: 1:161588873:C:T

rsID: rs111384507

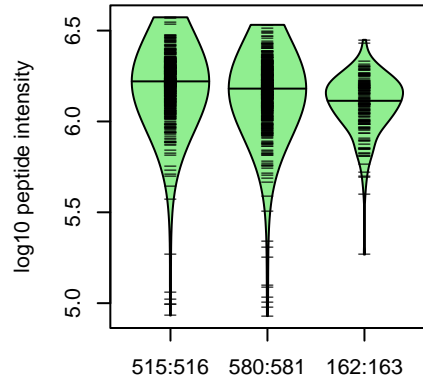
UniProtID: P08637

HGNC gene: FCGR3A

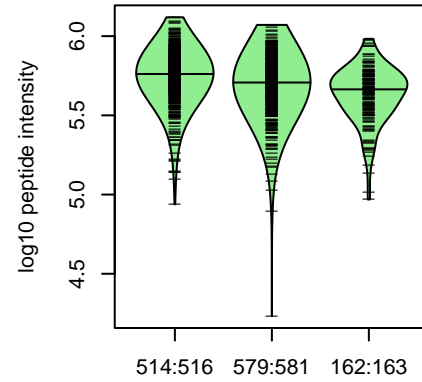
Type: Cis-pQTL

PLG [trans]

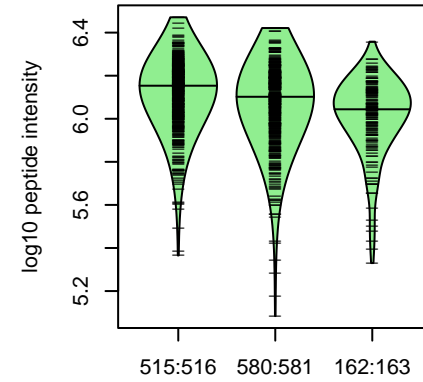
3:186390627:C:T_T
 $p = 1.1e-15$, $\beta = -0.328$, $N = 1257$

NLDENYCR pc2

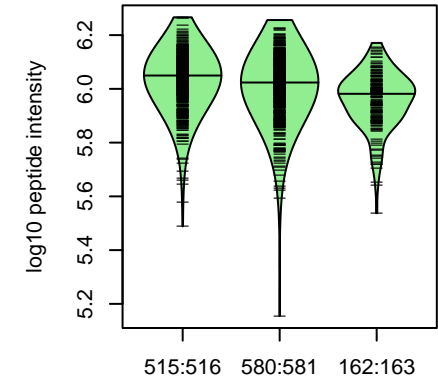
3:186390627:C:T_T
 $p = 3.2e-16$, $\beta = -0.334$, $N = 1257$

ELRPWCFTTDPNK pc3

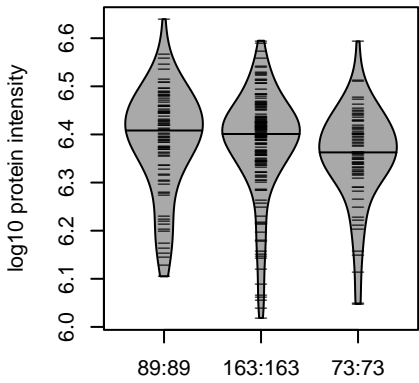
3:186390627:C:T_T
 $p = 4.1e-16$, $\beta = -0.333$, $N = 1255$

WEYCNLK pc2

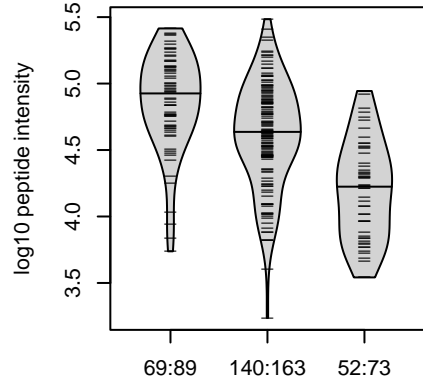
3:186390627:C:T_T
 $p = 7.1e-16$, $\beta = -0.33$, $N = 1257$

GPWCFTTDPNVR pc2

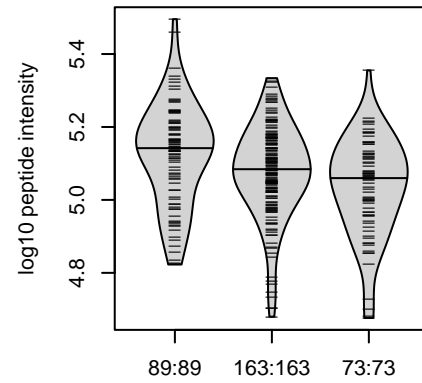
3:186390627:C:T_T
 $p = 1.3e-15$, $\beta = -0.327$, $N = 1257$

P00747 NP5

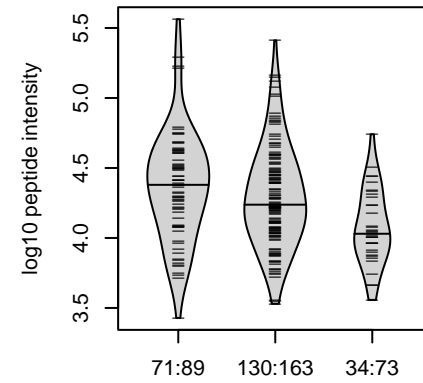
rs9898
 $p = 0.015$, $\beta = -0.191$, $N = 325$

TPENYPNAGLTMNYCR pc3

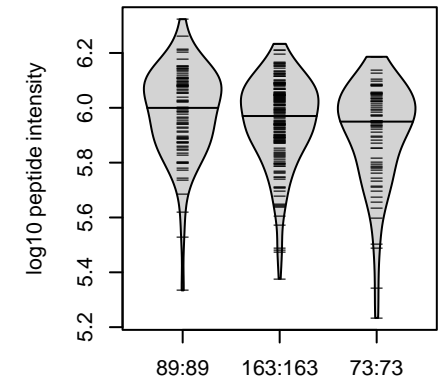
rs9898
 $p = 4.1e-15$, $\beta = -0.667$, $N = 261$

GNVAVTVSGHTCQHWSAQTPHTHR

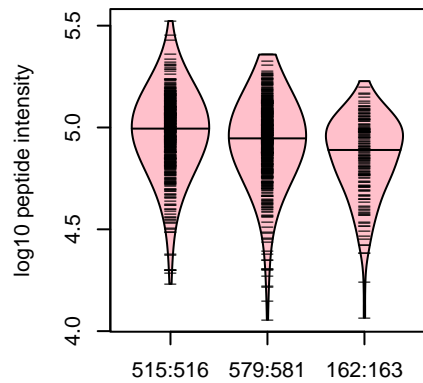
rs9898
 $p = 1.2e-05$, $\beta = -0.336$, $N = 325$

DVVLFEK pc2

rs9898
 $p = 0.00087$, $\beta = -0.325$, $N = 235$

CTTPPPSSGPTYQLK pc2

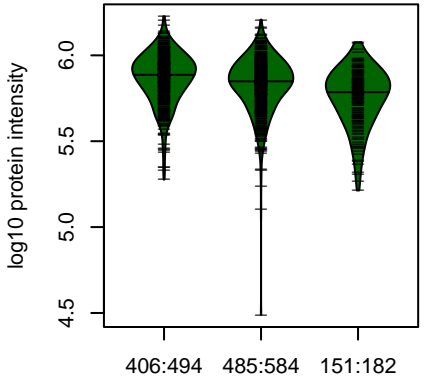
rs9898
 $p = 0.0016$, $\beta = -0.244$, $N = 325$

**YILQGVTSWGLGCAR pc2
rs3124784 REF**

3:186390627:C:T_T
 $p = 0.43$, $\text{model} = \text{DOM}$, $N = 1256$

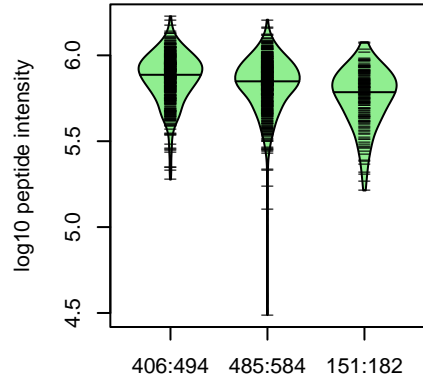
Locus: 128 (Sort: 149)
 Status: Not replicated
 80% power: No
 SNP: 3:186390627:C:T
 rsID: rs9898
 UniProtID: P00747
 HGNC gene: PLG
 Type: Trans-pQTL

TPSAB1 [trans]



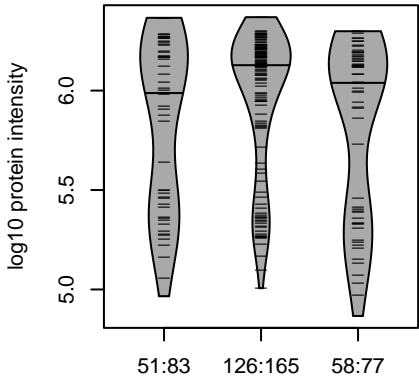
3:186391274:G:A_A
 $p = 1.4e-13$, $\beta = -0.327$, $N = 1042$

WPWQVSLR pc2



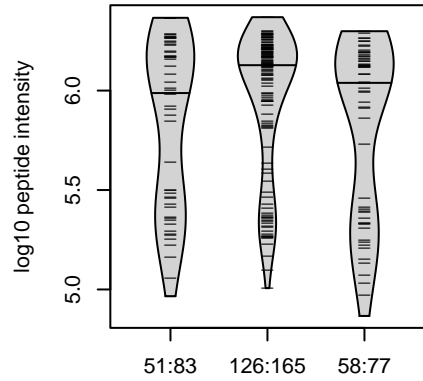
3:186391274:G:A_A
 $p = 1.4e-13$, $\beta = -0.327$, $N = 1042$

Q15661 NP5



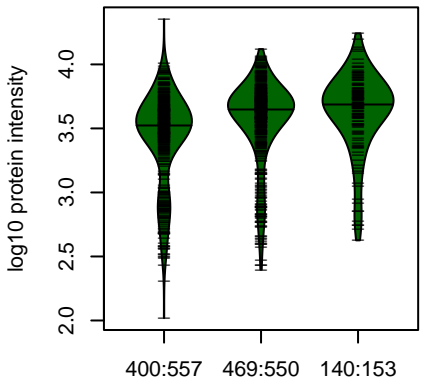
rs59123177
 $p = 0.29$, $\beta = -0.1$, $N = 235$

WPWQVSLR pc2

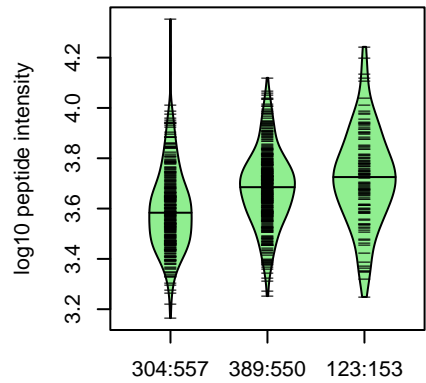


rs59123177
 $p = 0.32$, $\beta = -0.0939$, $N = 235$

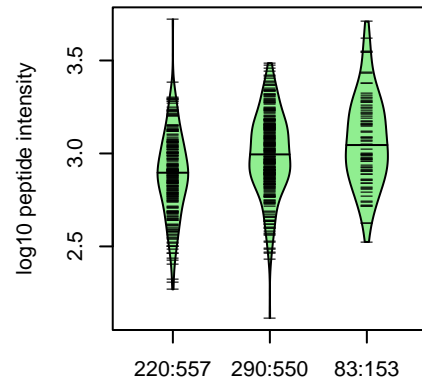
Locus: 128 (Sort: 150)
 Status: Not replicated
 80% power: No
 SNP: 3:186391274:G:A
 rsID: rs59123177
 UniProtID: Q15661
 HGNC gene: TPSAB1
 Type: Trans-pQTL

FABP4 [trans]

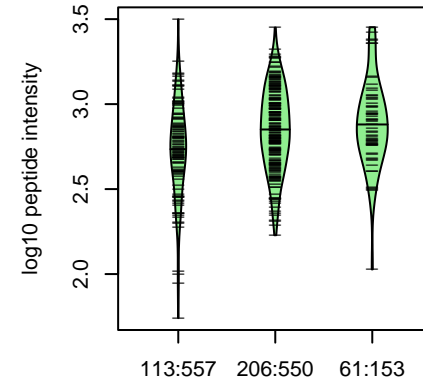
9:136144284:T:A_A
 $p = 1.2e-15$, $\beta = 0.36$, $N = 1009$

LVVECVMK pc2

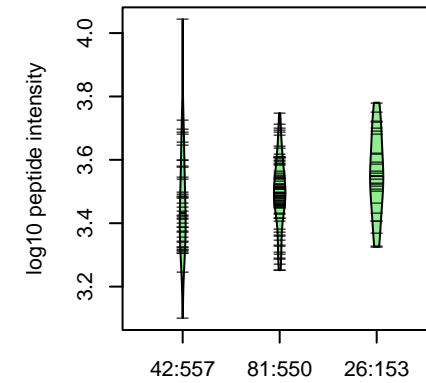
9:136144284:T:A_A
 $p = 2.7e-15$, $\beta = 0.392$, $N = 816$

PNMIISVNGDVITIK pc2

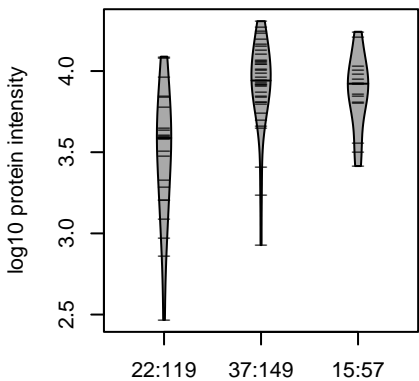
9:136144284:T:A_A
 $p = 1.5e-11$, $\beta = 0.399$, $N = 593$

STITLDGGVLVHVQK pc2

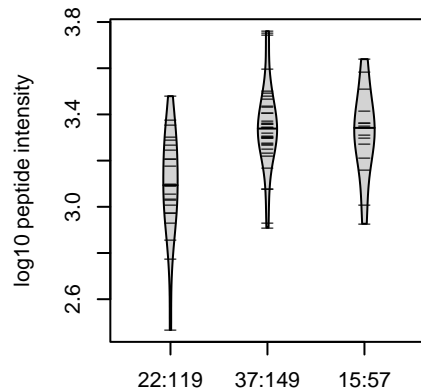
9:136144284:T:A_A
 $p = 4.8e-05$, $\beta = 0.308$, $N = 380$

NTEISFILGQEFDEV TADDRK pc3

9:136144284:T:A_A
 $p = 0.0071$, $\beta = 0.32$, $N = 149$

P15090 NP2

rs597988
 $p = 0.00052$, $\beta = 0.534$, $N = 74$

LVSSNFDDYMK pc2

rs597988
 $p = 7.9e-05$, $\beta = 0.6$, $N = 74$

Locus: 129 (Sort: 151)

Status: Not replicated

80% power: No

SNP: 9:136144284:T:A

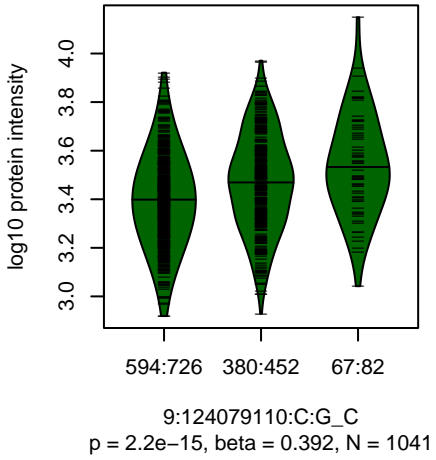
rsID: rs597988

UniProtID: P15090

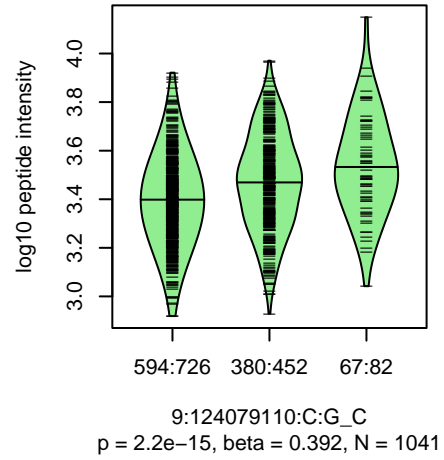
HGNC gene: FABP4

Type: Trans-pQTL

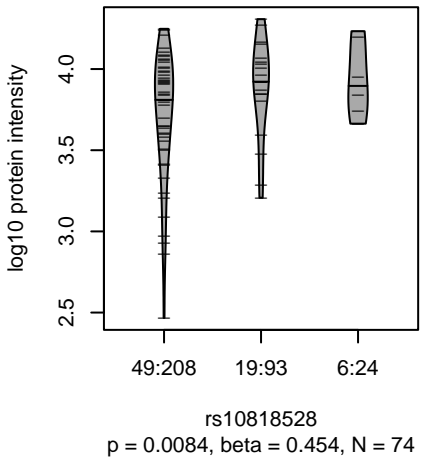
GGTA1P [cis]



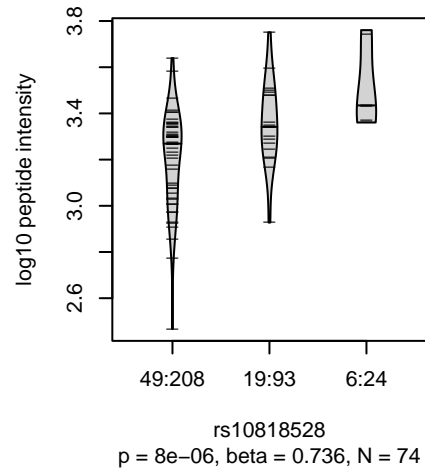
NPEVDDSSAQK pc2



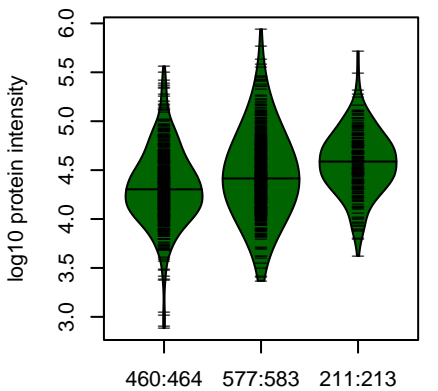
Q4G0N0 NP2



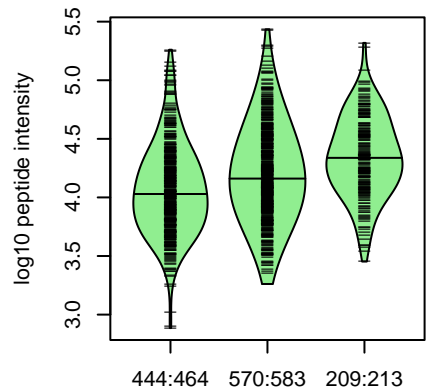
LVSSNFDDYMK pc2



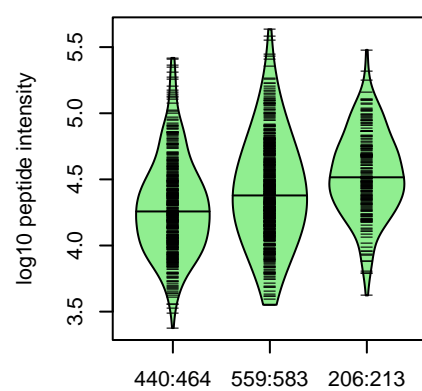
Locus: 130 (Sort: 152)
Status: Not replicated
80% power: No
SNP: 9:124079110:C:G
rsID: rs10818528
UniProtID: Q4G0N0
HGNC gene: GGTA1P
Type: Cis-pQTL

MBL2 [cis]

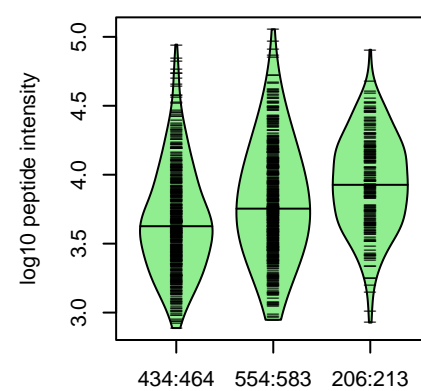
10:54632800:C:T_T
 $p = 2.8e-15$, $\beta = 0.312$, $N = 1248$

WLTFSLGK pc2

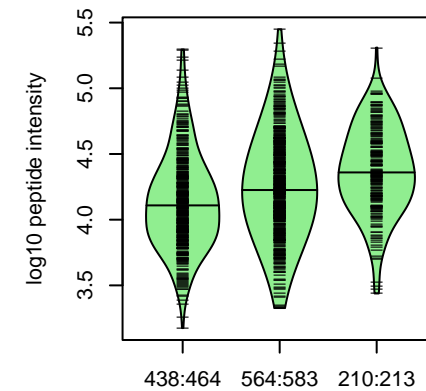
10:54632800:C:T_T
 $p = 1.3e-15$, $\beta = 0.319$, $N = 1223$

EEAFLGITDEK pc2

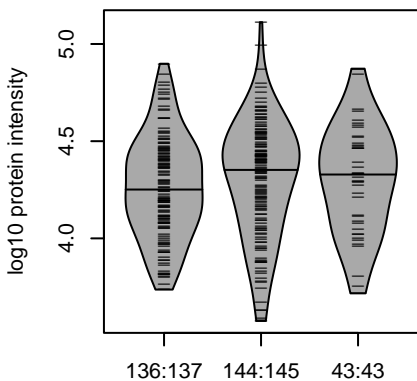
10:54632800:C:T_T
 $p = 6.3e-15$, $\beta = 0.313$, $N = 1205$

FFLTNGEIMTFEK pc2

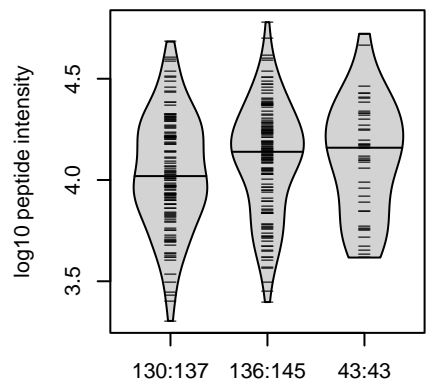
10:54632800:C:T_T
 $p = 9.6e-15$, $\beta = 0.312$, $N = 1194$

TEGQFVDLTGNR pc2

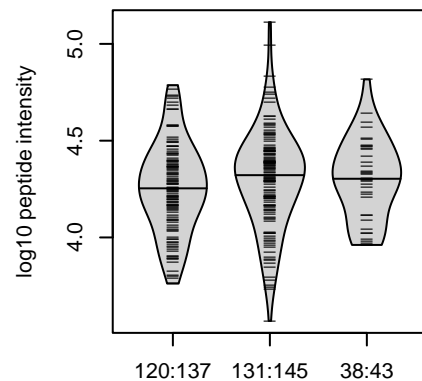
10:54632800:C:T_T
 $p = 1.8e-13$, $\beta = 0.295$, $N = 1212$

P11226 NP2

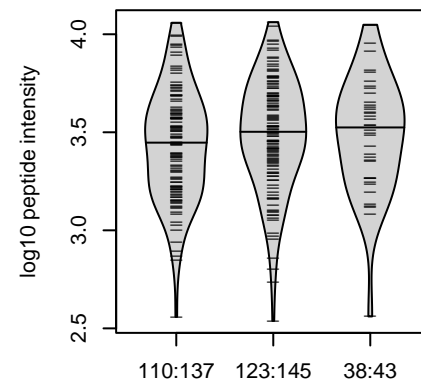
rs67316945
 $p = 0.097$, $\beta = 0.133$, $N = 323$

WLTFSLGK pc2

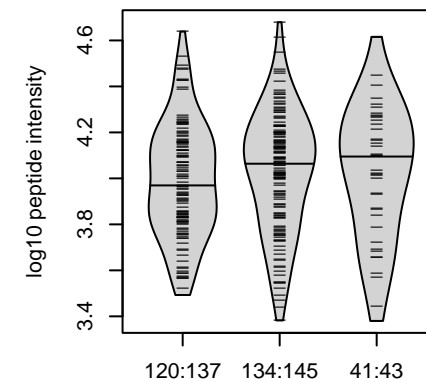
rs67316945
 $p = 0.022$, $\beta = 0.185$, $N = 309$

FQASVATPR pc2

rs67316945
 $p = 0.066$, $\beta = 0.156$, $N = 289$

NAAENGAIQNLIK pc2

rs67316945
 $p = 0.11$, $\beta = 0.139$, $N = 271$

TEGQFVDLTGNR pc2

rs67316945
 $p = 0.13$, $\beta = 0.125$, $N = 295$

Locus: 131 (Sort: 153)

Status: Not replicated

80% power: No

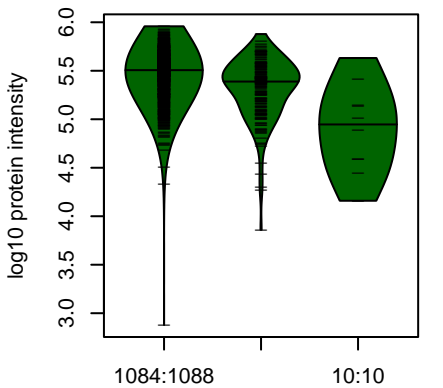
SNP: 10:54632800:C:T

rsID: rs67316945

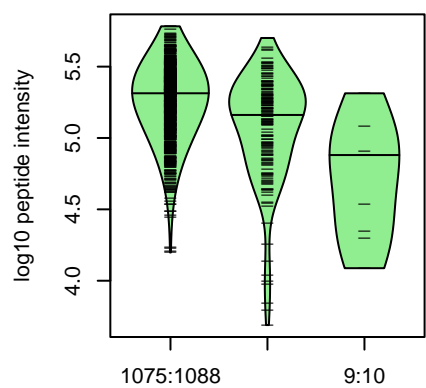
UniProtID: P11226

HGNC gene: MBL2

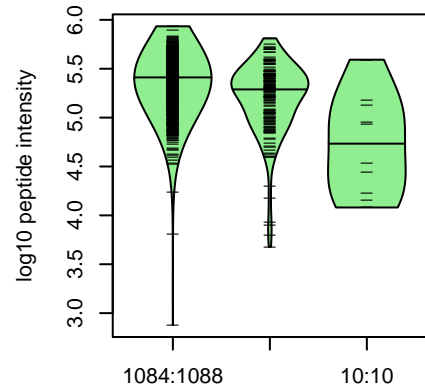
Type: Cis-pQTL

MST1 [cis]

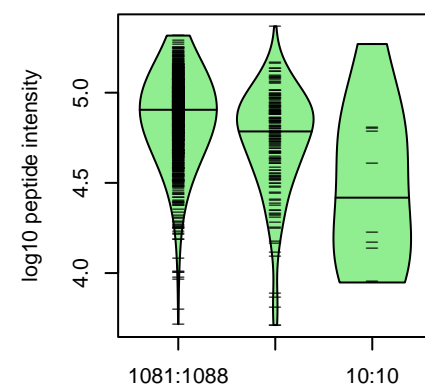
3:48612471:G:A_A
 $p = 3.4e-15$, $\beta = -0.586$, $N = 1255$

CEIAGWGETK pc2

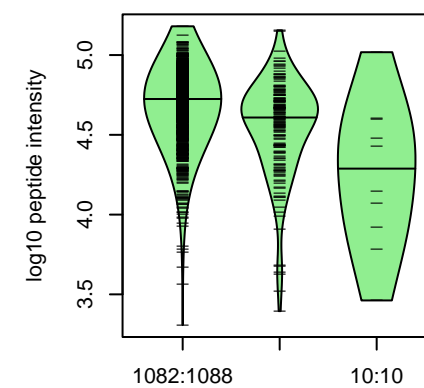
3:48612471:G:A_A
 $p = 1.6e-15$, $\beta = -0.6$, $N = 1244$

MVCGPSGSQVLVLLK pc2

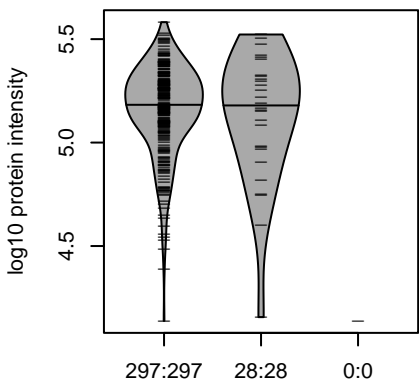
3:48612471:G:A_A
 $p = 1.9e-14$, $\beta = -0.57$, $N = 1255$

QEATTVSCFR pc2

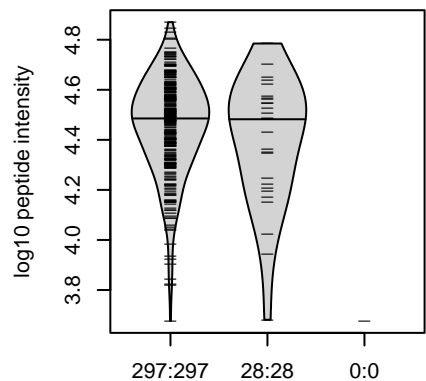
3:48612471:G:A_A
 $p = 5.8e-13$, $\beta = -0.538$, $N = 1251$

CGPLMDCR pc2

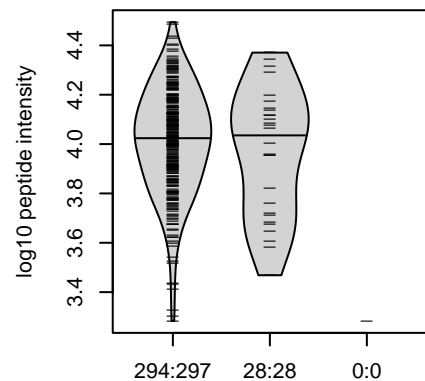
3:48612471:G:A_A
 $p = 1e-12$, $\beta = -0.533$, $N = 1252$

G3XAK1 NP3

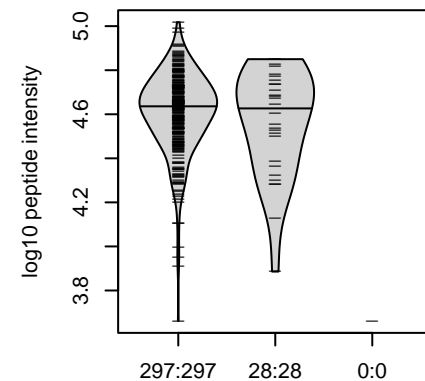
rs76140443
 $p = 0.73$, $\beta = -0.0666$, $N = 325$

TCIMNNGVGYR pc2

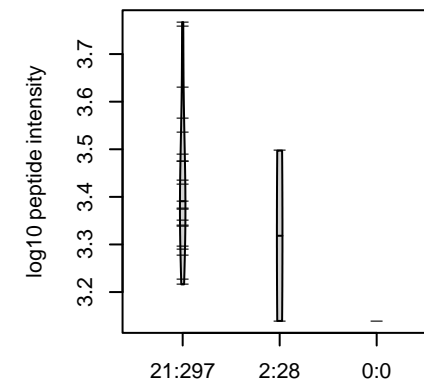
rs76140443
 $p = 0.075$, $\beta = -0.347$, $N = 325$

WDAQIPHQHR pc2

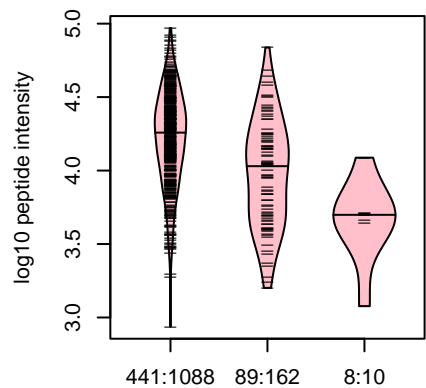
rs76140443
 $p = 0.17$, $\beta = -0.269$, $N = 322$

QEATTVSCFR pc2

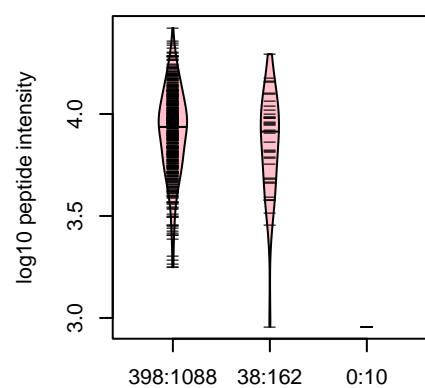
rs76140443
 $p = 0.2$, $\beta = -0.253$, $N = 325$

CTDDVRPQDCYHGAGEQYR pc4

rs76140443
 $p = 0.22$, $\beta = -0.833$, $N = 23$

**SCWPAVFTR pc2
rs3197999 ALT**

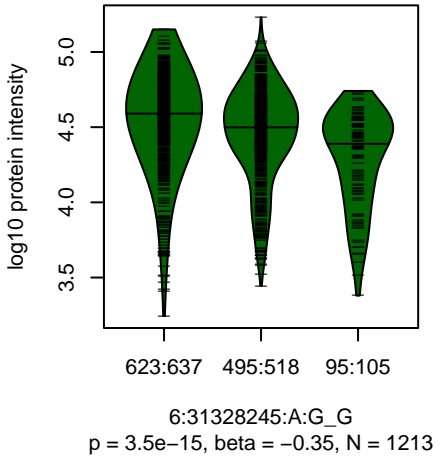
3:48612471:G:A_A
 $p = 0.00013$, $\text{model} = \text{REC}$, $N = 538$

**WPAVFTR pc2
rs3197999 REF**

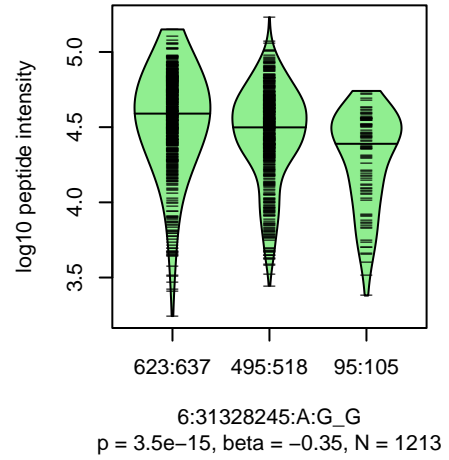
3:48612471:G:A_A
 $p = 0.00019$, $\text{model} = \text{REC}$, $N = 436$

Locus: 132 (Sort: 154)
 Status: Not replicated
 80% power: No
 SNP: 3:48612471:G:A
 rsID: rs76140443
 UniProtID: G3XAK1
 HGNC gene: MST1
 Type: Cis-pQTL

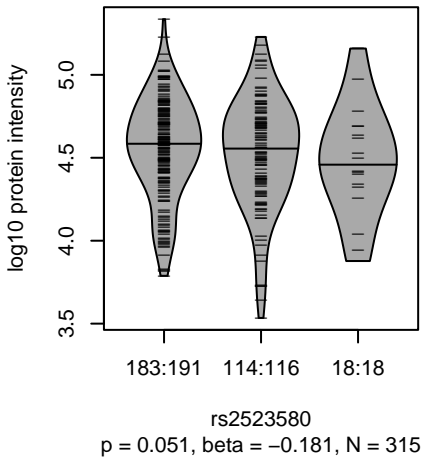
HLA-G [cis]



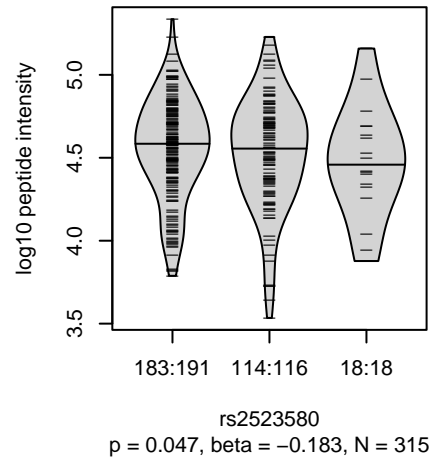
DYLALNEDLR pc2



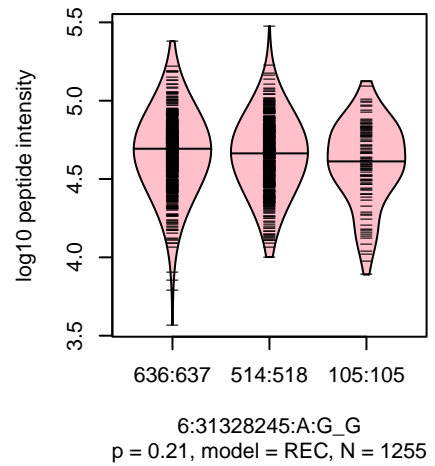
Q5RJ85 NP1



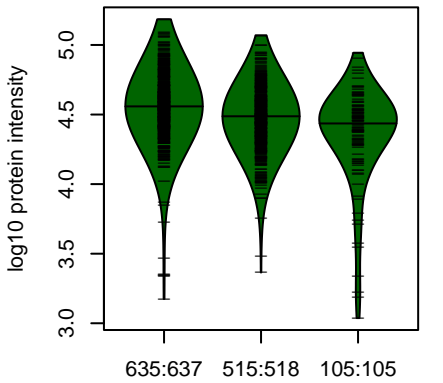
DYLALNEDLR pc2



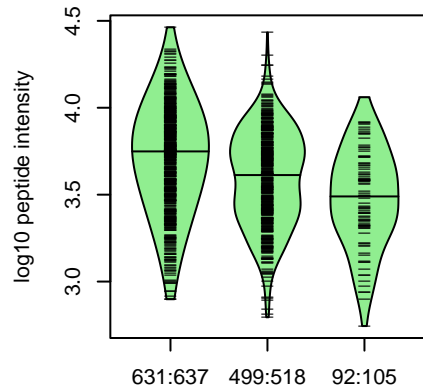
WAAVVPSGEEQR pc2 rs707908;rs1736924 ALT



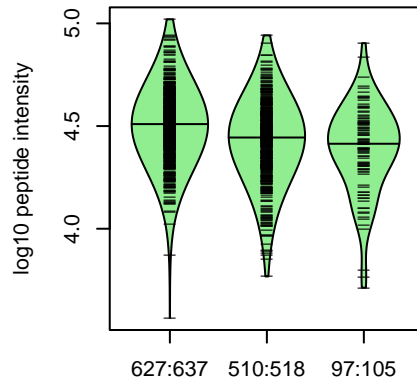
Locus: 133 (Sort: 155)
Status: Not replicated
80% power: No
SNP: 6:31328245:A:G
rsID: rs2523580
UniProtID: Q5RJ85
HGNC gene: HLA-G
Type: Cis-pQTL

HLA-B [cis]

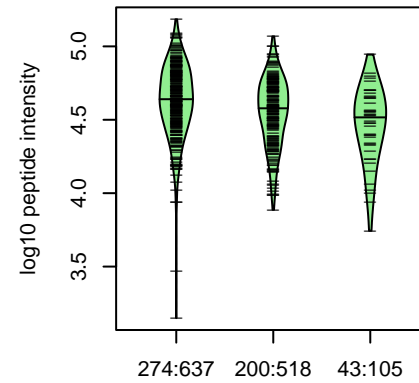
6:31328245:A:G_G
p = 2.2e-14, beta = -0.331, N = 1255

SWTAADTAAQITQR pc2

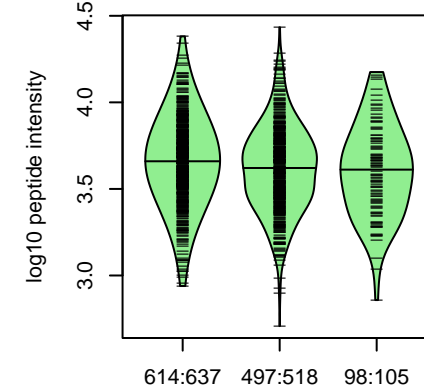
6:31328245:A:G_G
p = 1.9e-15, beta = -0.355, N = 1222

FSDAASPR pc2

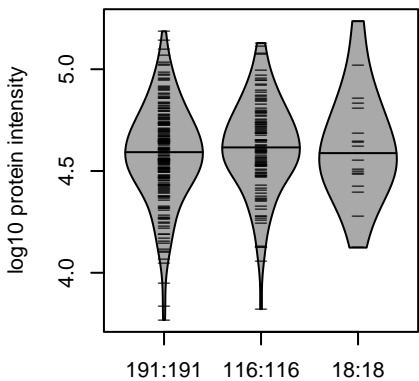
6:31328245:A:G_G
p = 5.1e-12, beta = -0.306, N = 1234

DYIALNEDLR pc2

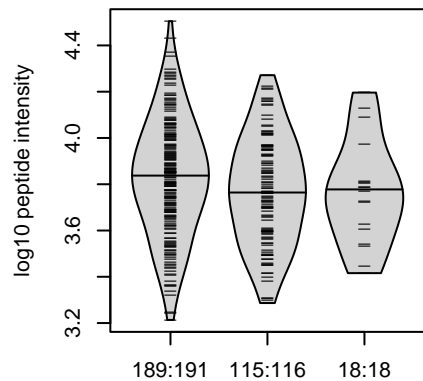
6:31328245:A:G_G
p = 1.1e-06, beta = -0.327, N = 517

DGEDQTQDTELVETRPAGDR pc3

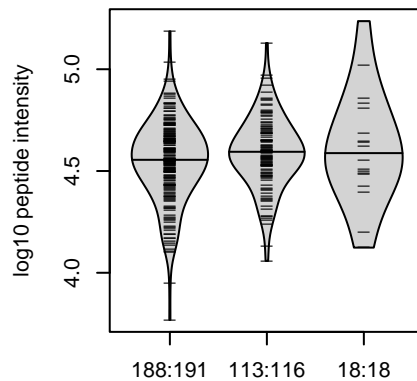
6:31328245:A:G_G
p = 0.003, beta = -0.133, N = 1209

P01889 NP2

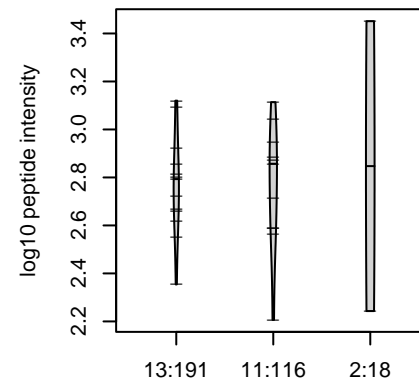
rs2523580
p = 0.36, beta = 0.084, N = 325

SWTAADTAAQITQR pc2

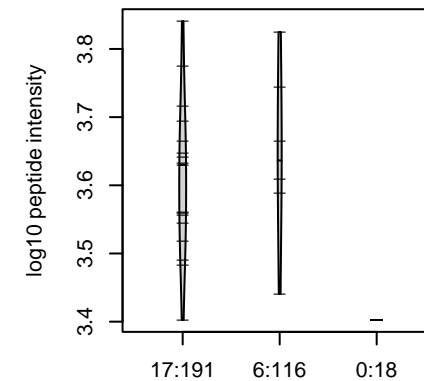
rs2523580
p = 0.091, beta = -0.155, N = 322

FSDAASPR pc2

rs2523580
p = 0.12, beta = 0.145, N = 319

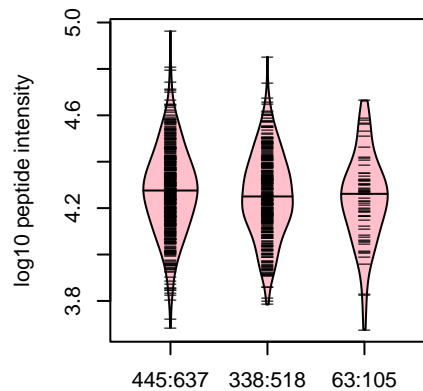
YTCHVQHEGLPK pc2

rs2523580
p = 0.16, beta = -0.403, N = 26

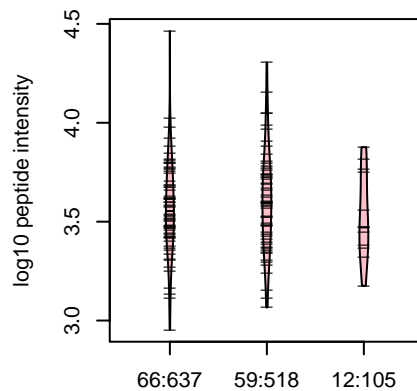
RAYLEGECVEWLR pc3

rs2523580
p = 0.16, beta = 0.61, N = 23

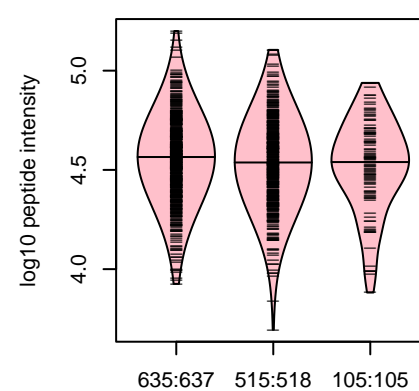
Locus: 133 (Sort: 156)
Status: Not replicated
80% power: No
SNP: 6:31328245:A:G
rsID: rs2523580
UniProtID: P01889
HGNC gene: HLA-B
Type: Cis-pQTL

**FISVG YVDDTQFVR pc2
rs1050437 REF**

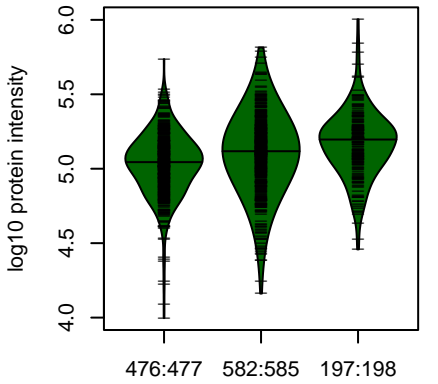
6:31328245:A:G_G
p = 0.041, model = REC, N = 846

**GEPRFISVG YVDDTQFVR pc3
rs1050437 REF**

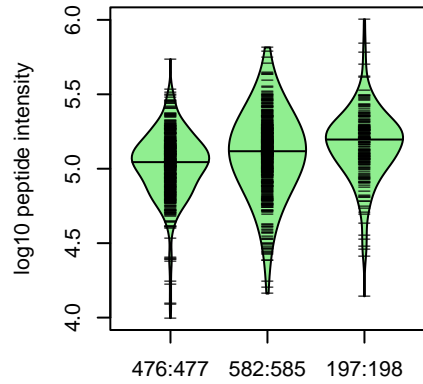
6:31328245:A:G_G
p = 0.59, model = REC, N = 137

**WAAVVVPSGEEQR pc2
rs707908;rs1736924 ALT**

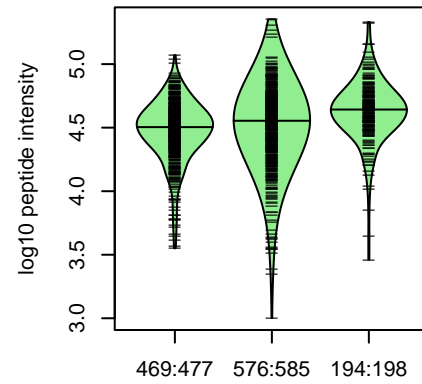
6:31328245:A:G_G
p = 0.68, model = REC, N = 1255

CTSS [trans]

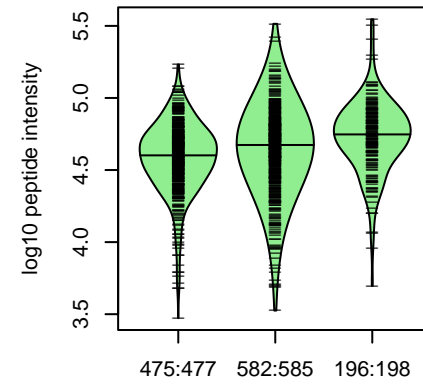
3:186454180:A:C_C
 $p = 3.9e-15$, $\beta = 0.313$, $N = 1255$

GPVSVGVDAR pc2

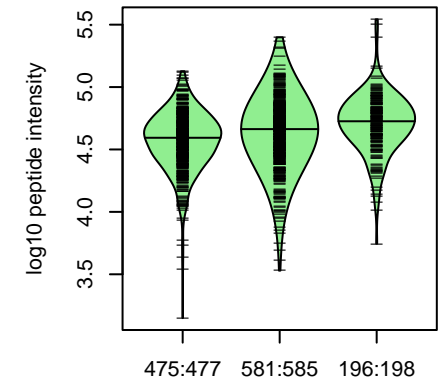
3:186454180:A:C_C
 $p = 8.6e-15$, $\beta = 0.309$, $N = 1255$

GIDSDASYPYK pc2

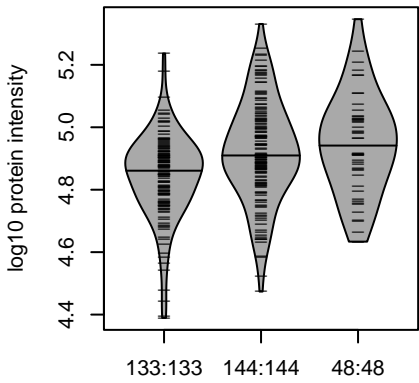
3:186454180:A:C_C
 $p = 3.3e-13$, $\beta = 0.293$, $N = 1239$

GNHCGIASFPYPEI pc2

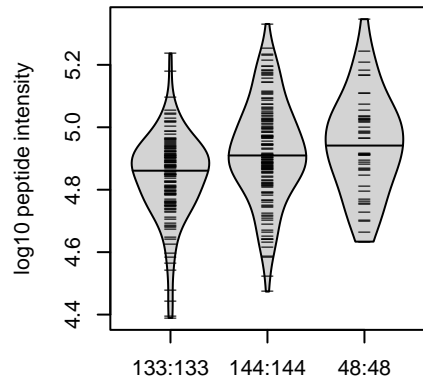
3:186454180:A:C_C
 $p = 1e-12$, $\beta = 0.285$, $N = 1253$

NSWGHNFGEEGYIR pc3

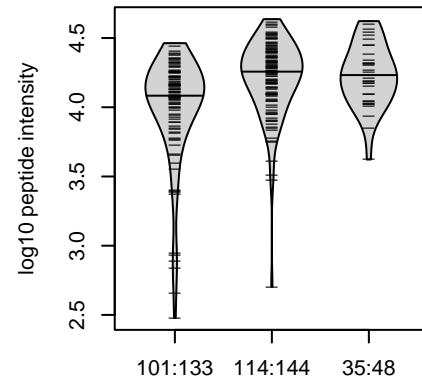
3:186454180:A:C_C
 $p = 1.7e-12$, $\beta = 0.282$, $N = 1252$

P25774 NP3

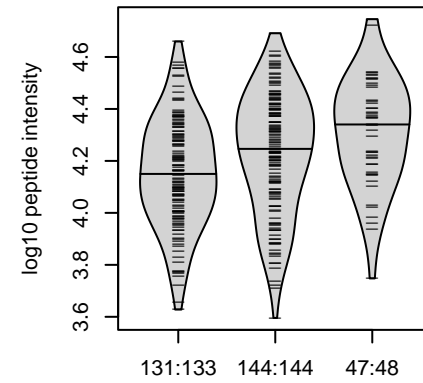
rs5030062
 $p = 1.2e-06$, $\beta = 0.372$, $N = 325$

GPVSVGVDAR pc2

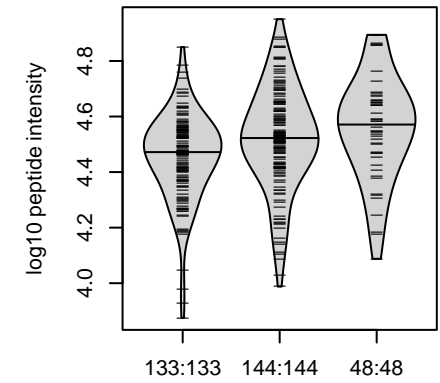
rs5030062
 $p = 1.6e-06$, $\beta = 0.37$, $N = 325$

LVLSAQNLVDCSTEK pc2

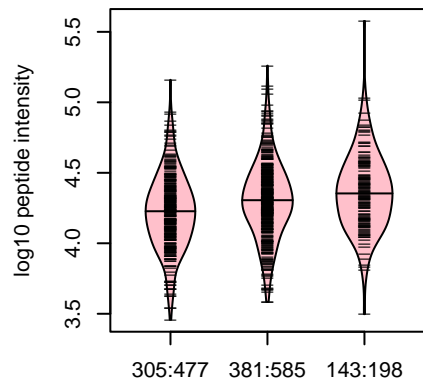
rs5030062
 $p = 2.3e-06$, $\beta = 0.419$, $N = 250$

GIDSDASYPYK pc2

rs5030062
 $p = 2.4e-05$, $\beta = 0.329$, $N = 322$

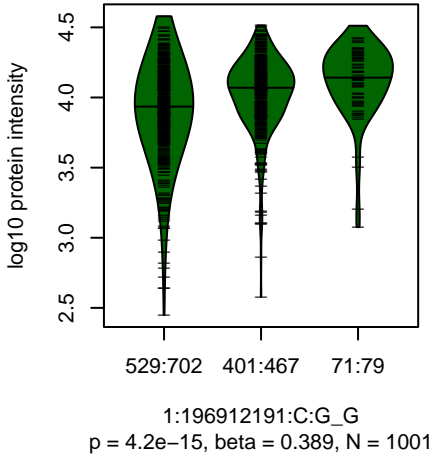
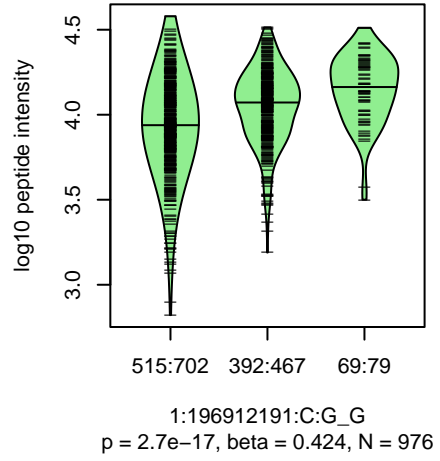
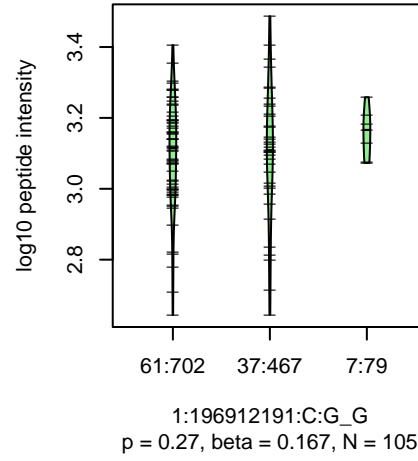
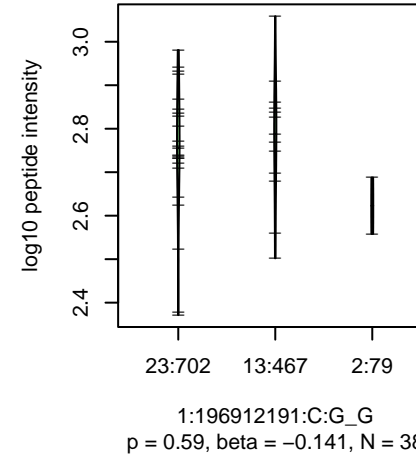
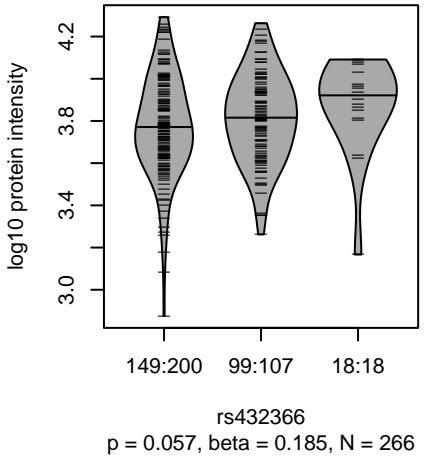
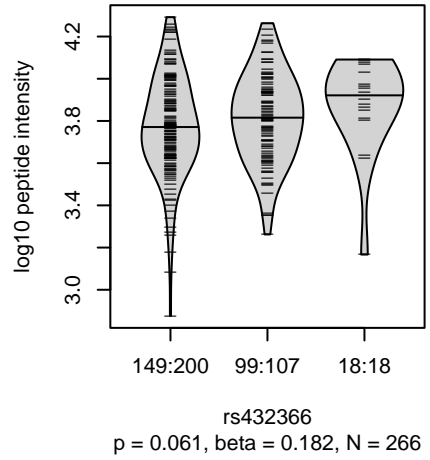
NSWGHNFGEEGYIR pc3

rs5030062
 $p = 3.7e-05$, $\beta = 0.319$, $N = 325$

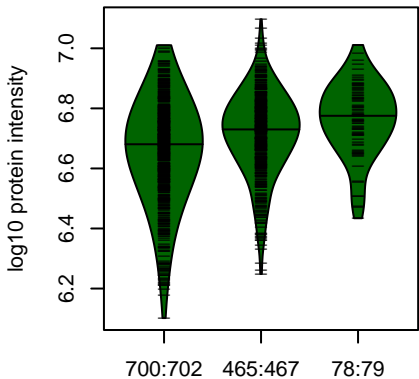
**ILPDSVDWR pc2
rs2230061 REF**

3:186454180:A:C_C
 $p = 0.041$, $\text{model} = \text{DOM}$, $N = 829$

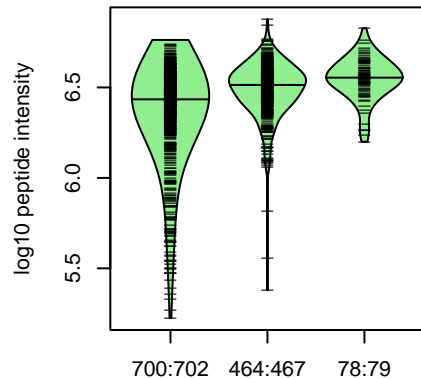
Locus: 134 (Sort: 157)
 Status: Replicated
 80% power: No
 SNP: 3:186454180:A:C
 rsID: rs5030062
 UniProtID: P25774
 HGNC gene: CTSS
 Type: Trans-pQTL

BRE [trans]**VQYVIQGYHK pc2****ISPMLSPFISSVVR pc2****SGCTSLTPGNCDR pc2****Q9NXR7 NP3****VQYVIQGYHK pc2**

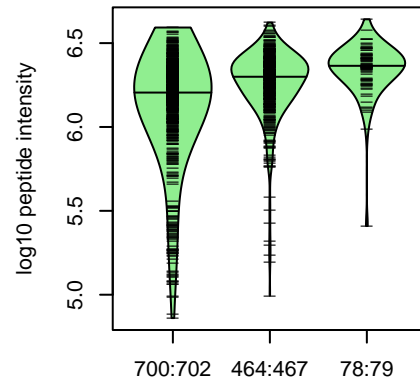
Locus: 135 (Sort: 158)
 Status: Not replicated
 80% power: No
 SNP: 1:196912191:C:G
 rsID: rs432366
 UniProtID: Q9NXR7
 HGNC gene: BRE
 Type: Trans-pQTL

CFH NA

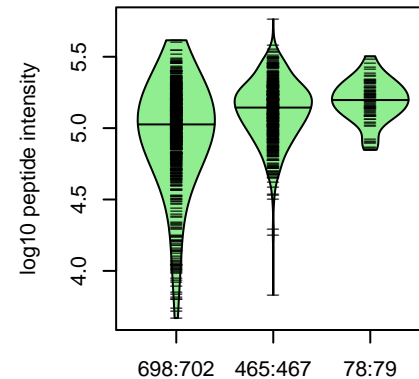
1:196912191:C:G_G
 $p = 1.4e-13$, $\beta = 0.337$, $N = 1243$

CLHPCVISR pc2

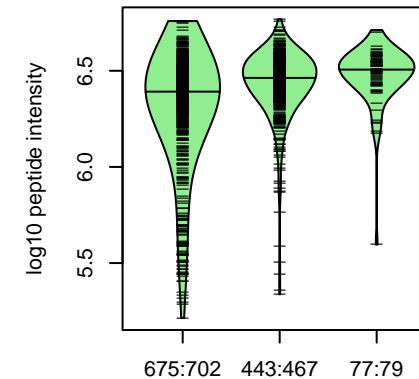
1:196912191:C:G_G
 $p = 6.4e-21$, $\beta = 0.425$, $N = 1242$

NGQWSEPPK pc2

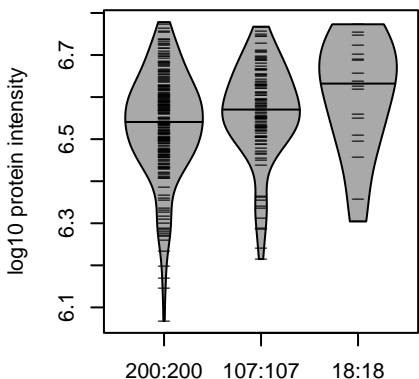
1:196912191:C:G_G
 $p = 2.2e-20$, $\beta = 0.419$, $N = 1242$

EIMENYNIALR pc3

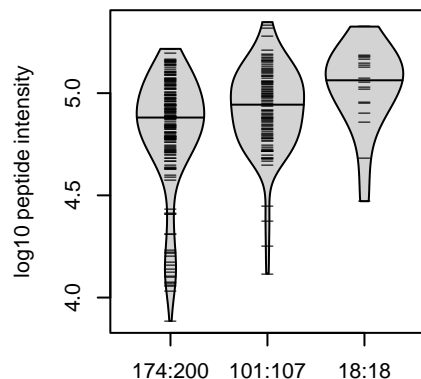
1:196912191:C:G_G
 $p = 2.8e-19$, $\beta = 0.408$, $N = 1241$

TTCWDGK pc2

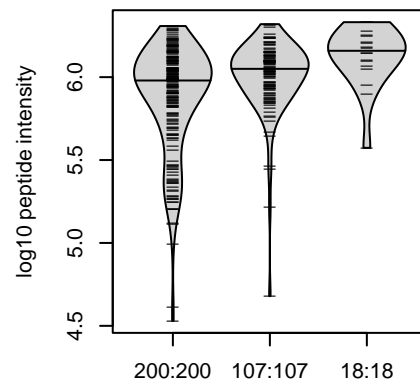
1:196912191:C:G_G
 $p = 8e-16$, $\beta = 0.372$, $N = 1195$

A0A024R962 NP3

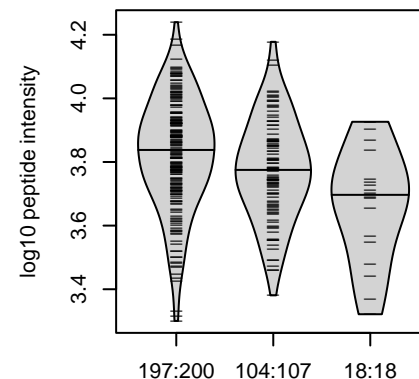
rs432366
 $p = 0.0021$, $\beta = 0.281$, $N = 325$

EIMENYNIALR pc3

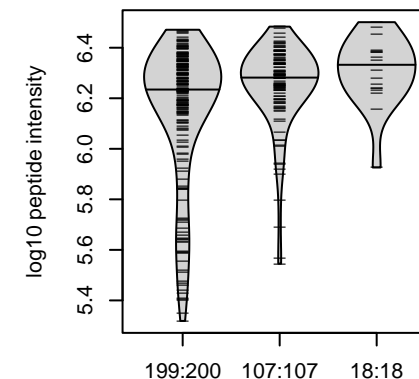
rs432366
 $p = 1.2e-05$, $\beta = 0.407$, $N = 293$

TTCWDGK pc2

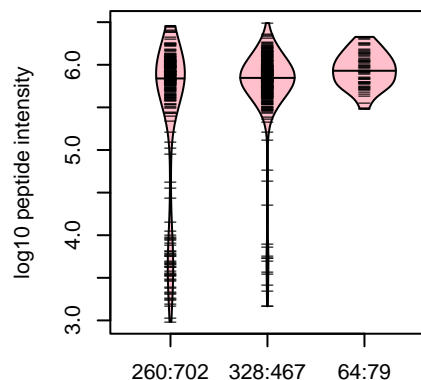
rs432366
 $p = 2.9e-05$, $\beta = 0.379$, $N = 325$

GDAVCTESGWR pc2

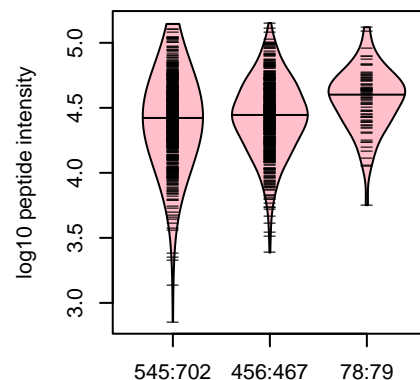
rs432366
 $p = 2e-04$, $\beta = -0.339$, $N = 319$

CLHPCVISR pc2

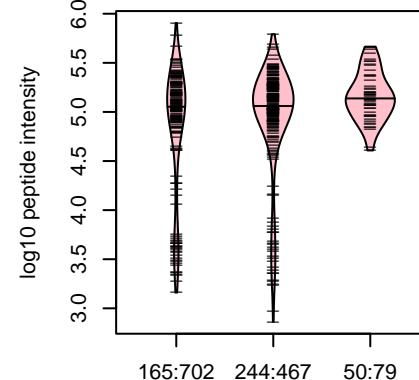
rs432366
 $p = 0.00042$, $\beta = 0.321$, $N = 324$

**SLGNIIMVCR pc2
rs800292 ALT**

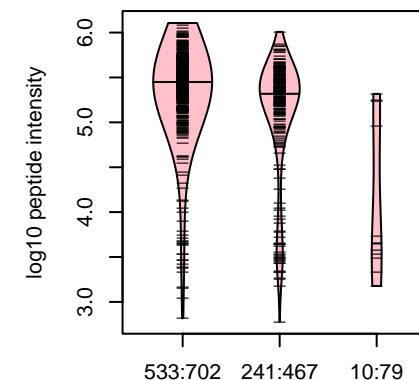
1:196912191:C:G_G
 $p = 9e-35$, $\text{model} = \text{REC}$, $N = 660$

**CYFPYLENGYNQNYGR pc3
rs1061170 ALT**

1:196912191:C:G_G
 $p = 2.4e-29$, $\text{model} = \text{REC}$, $N = 1091$

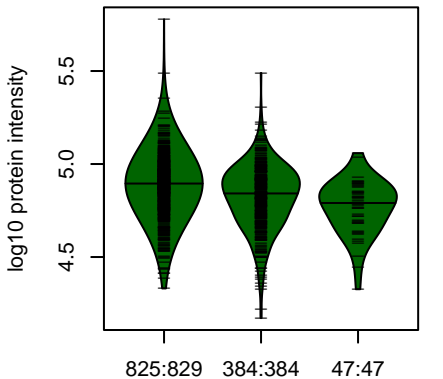
**SPPDISHGVVAHMSDSYQYGEEVTK
rs1065489 ALT**

1:196912191:C:G_G
 $p = 3.4e-28$, $\text{model} = \text{REC}$, $N = 464$

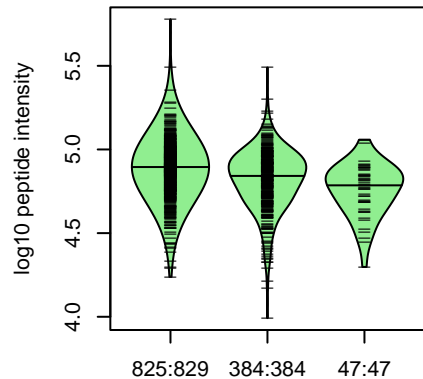
**CYFPYLENGYNQNHGR pc3
rs1061170 REF**

1:196912191:C:G_G
 $p = 1.8e-27$, $\text{model} = \text{REC}$, $N = 792$

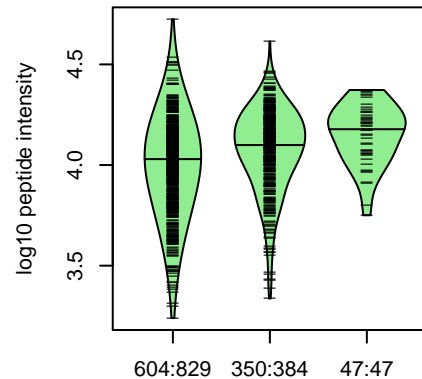
Locus: 135 (Sort: 159)
 Status: Not replicated
 80% power: No
 SNP: 1:196912191:C:G
 rsID: rs432366
 UniProtID: A0A024R962
 HGNC gene: CFH
 Type: NA

HSPA8 [trans]

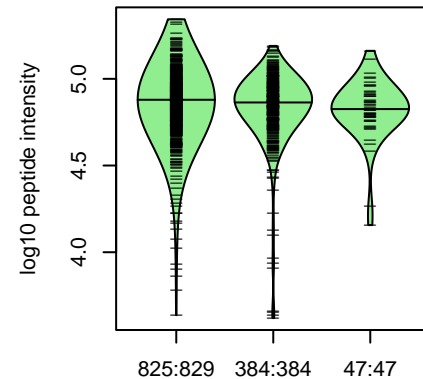
3:186394038:G:C_C
 $p = 4.3e-15$, $\beta = -0.391$, $N = 1256$

TTPSYVAFTDTER pc2

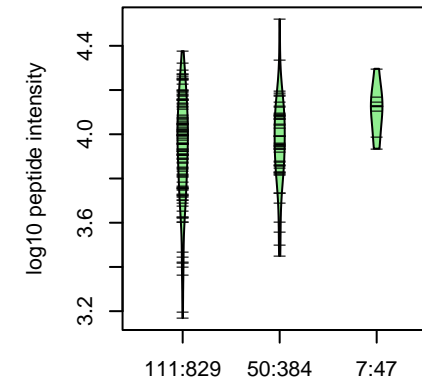
3:186394038:G:C_C
 $p = 2.1e-15$, $\beta = -0.395$, $N = 1256$

RFDDAVVQSDMK pc3

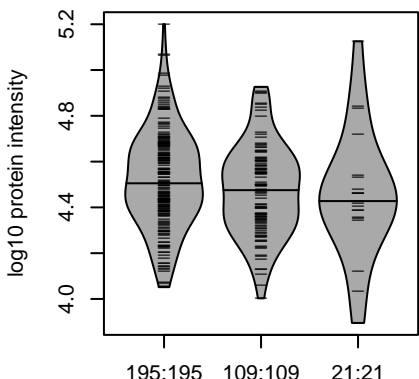
3:186394038:G:C_C
 $p = 3.3e-12$, $\beta = 0.371$, $N = 1001$

IINEPTAAAIAYGLDK pc2

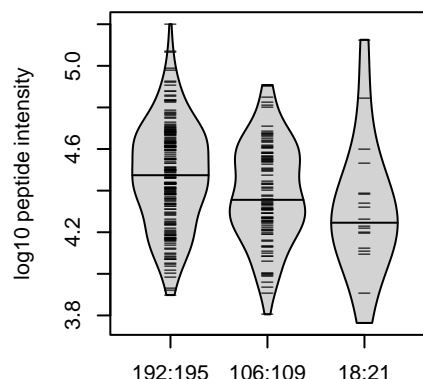
3:186394038:G:C_C
 $p = 0.011$, $\beta = -0.128$, $N = 1256$

ARFEELNADLFR pc2

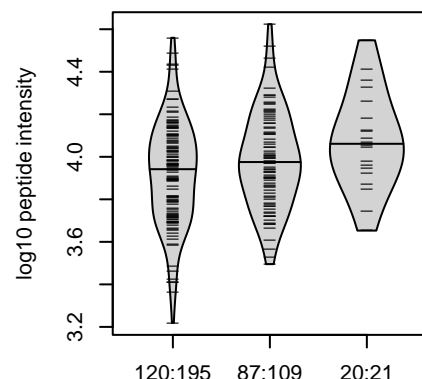
3:186394038:G:C_C
 $p = 0.035$, $\beta = 0.28$, $N = 168$

P11142 NP1

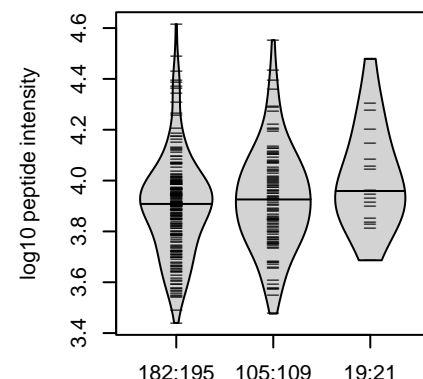
rs16860992
 $p = 0.087$, $\beta = -0.152$, $N = 325$

TTPSYVAFTDTER pc2

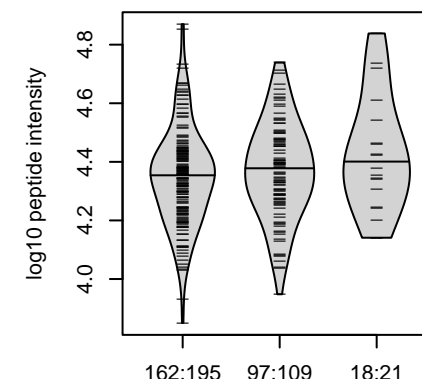
rs16860992
 $p = 0.0031$, $\beta = -0.271$, $N = 316$

RFDDAVVQSDMK pc3

rs16860992
 $p = 0.0057$, $\beta = 0.275$, $N = 227$

LLQDFFNKG pc2

rs16860992
 $p = 0.011$, $\beta = 0.233$, $N = 306$

GTLDPVEK pc2

rs16860992
 $p = 0.018$, $\beta = 0.226$, $N = 277$

Locus: 136 (Sort: 160)

Status: Not replicated

80% power: No

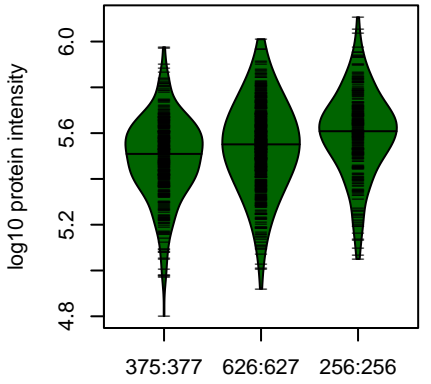
SNP: 3:186394038:G:C

rsID: rs16860992

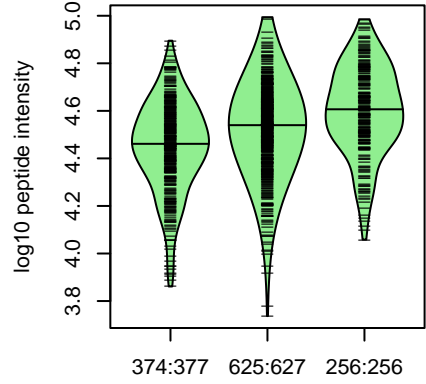
UniProtID: P11142

HGNC gene: HSPA8

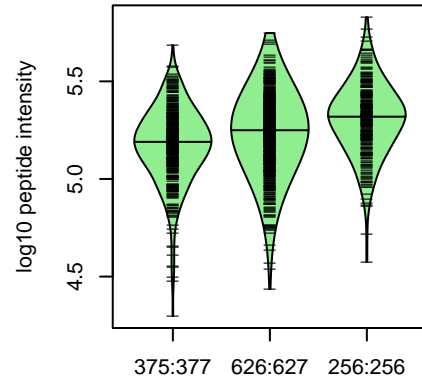
Type: Trans-pQTL

C8G [cis]

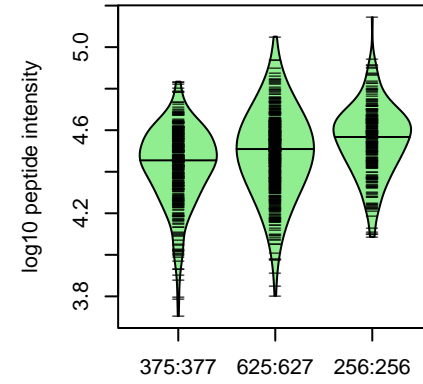
9:139840471:G:T_G
 p = 4.4e-15, beta = 0.31, N = 1257

YGFCEAADQFHVLDEVR pc3

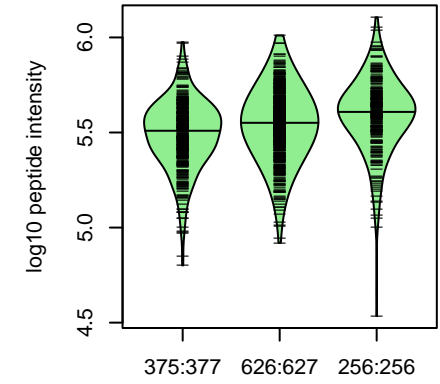
9:139840471:G:T_G
 p = 7.4e-25, beta = 0.404, N = 1255

QLYGDTGVLGR pc2

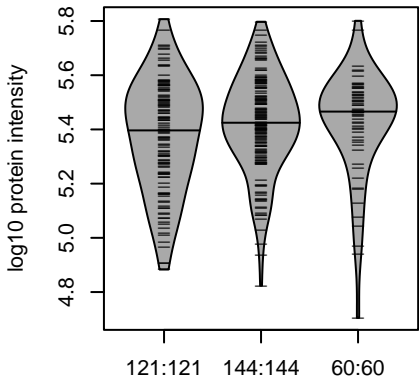
9:139840471:G:T_G
 p = 1.9e-18, beta = 0.345, N = 1257

LDGICWQVR pc2

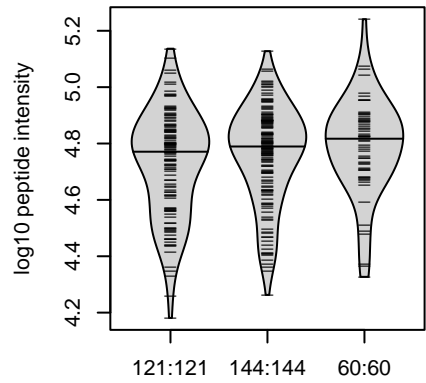
9:139840471:G:T_G
 p = 6.8e-18, beta = 0.34, N = 1256

SLPVSDSVLSGFQR pc2

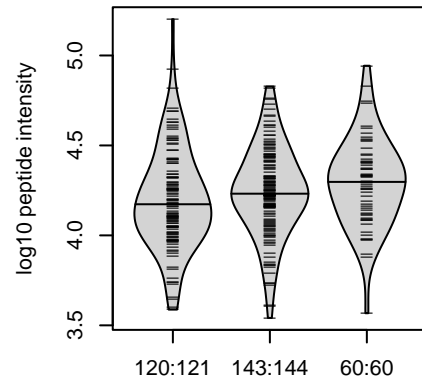
9:139840471:G:T_G
 p = 2.6e-14, beta = 0.301, N = 1257

P07360 NP5

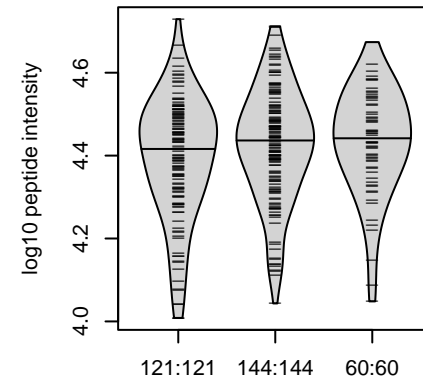
rs7862602
 p = 0.014, beta = 0.187, N = 325

YGFCEAADQFHVLDEVR pc3

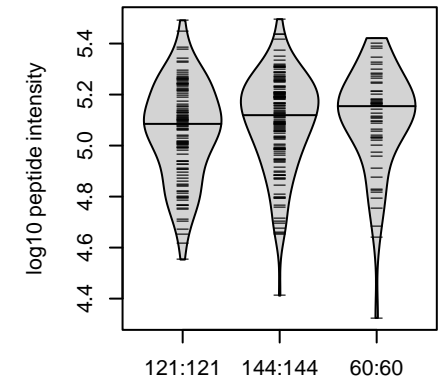
rs7862602
 p = 0.0039, beta = 0.218, N = 325

SLPVSDSVLSGFQR pc3

rs7862602
 p = 0.0042, beta = 0.217, N = 323

LDGICWQVR pc2

rs7862602
 p = 0.0072, beta = 0.203, N = 325

VQEHLTEDQIFYFPK pc3

rs7862602
 p = 0.013, beta = 0.189, N = 325

Locus: 137 (Sort: 161)

Status: Not replicated

80% power: No

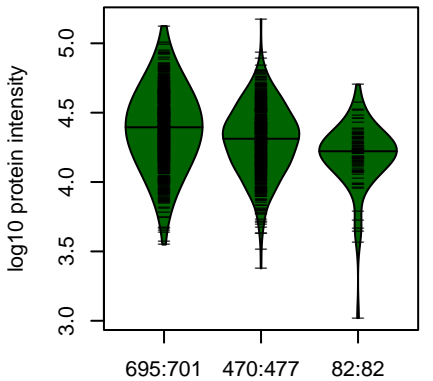
SNP: 9:139840471:G:T

rsID: rs7862602

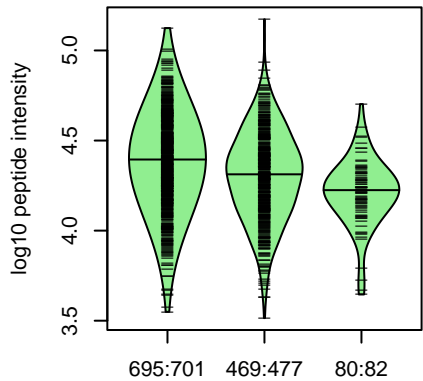
UniProtID: P07360

HGNC gene: C8G

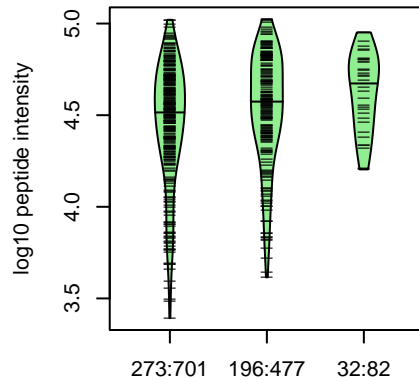
Type: Cis-pQTL

HLA-A [cis]

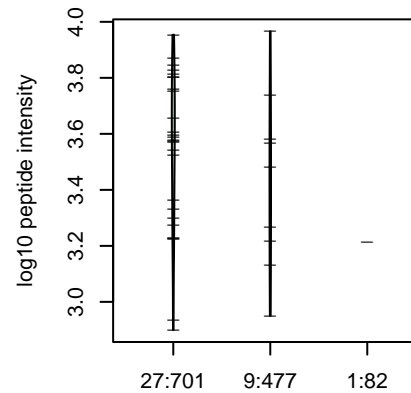
6:31349611:A:G_A
 $p = 6e-15$, $\beta = -0.352$, $N = 1247$

FIAGYVDDTQFVR pc2

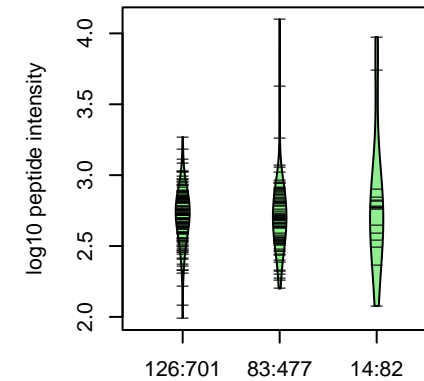
6:31349611:A:G_A
 $p = 1.3e-13$, $\beta = -0.336$, $N = 1244$

DYIALNEDLR pc2

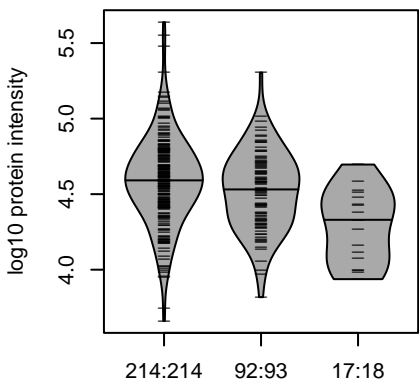
6:31349611:A:G_A
 $p = 4.3e-05$, $\beta = 0.293$, $N = 501$

AYLDGTCVEWLR pc2

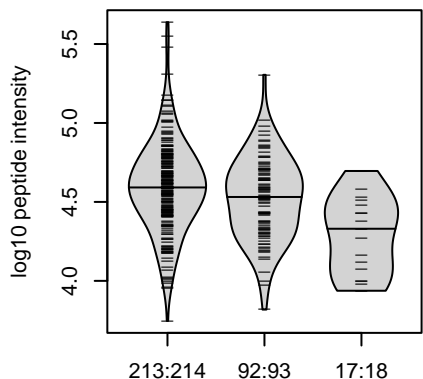
6:31349611:A:G_A
 $p = 0.34$, $\beta = -0.291$, $N = 37$

YTCHVQHEGLPK pc2

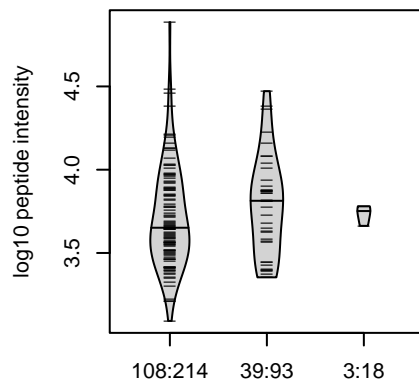
6:31349611:A:G_A
 $p = 0.62$, $\beta = -0.0528$, $N = 223$

Q5SRN5 NP1

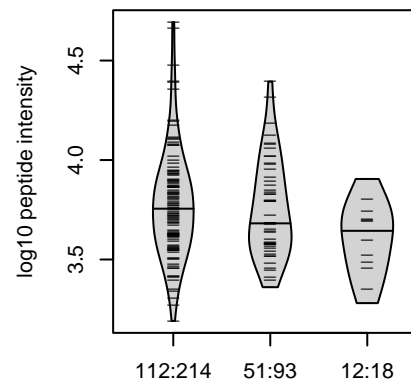
rs9266713
 $p = 0.004$, $\beta = -0.267$, $N = 323$

FIAGYVDDTQFVR pc2

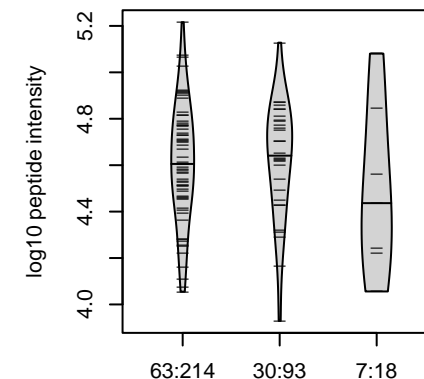
rs9266713
 $p = 0.0024$, $\beta = -0.283$, $N = 322$

THMTHHPISDHEATLR pc4

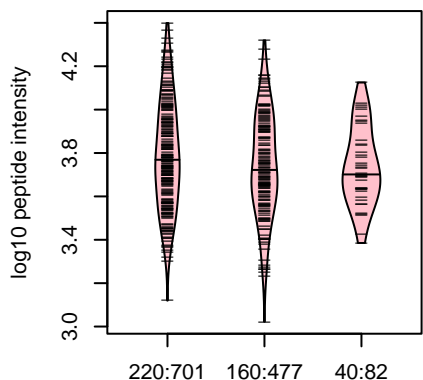
rs9266713
 $p = 0.17$, $\beta = 0.22$, $N = 150$

YTCHVQHEGLPK pc3

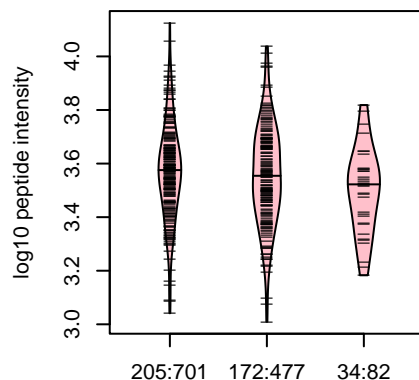
rs9266713
 $p = 0.29$, $\beta = -0.126$, $N = 175$

DYIALNEDLR pc2

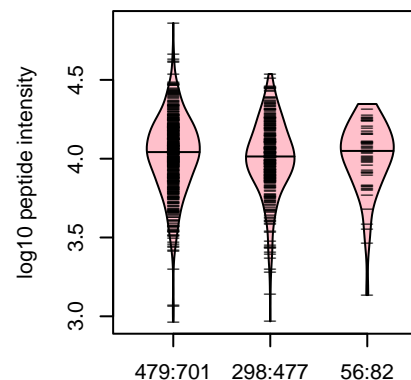
rs9266713
 $p = 0.76$, $\beta = -0.0482$, $N = 100$

**AQSQTDRLGLTLR pc3
rs1071742;rs199474457 REF**

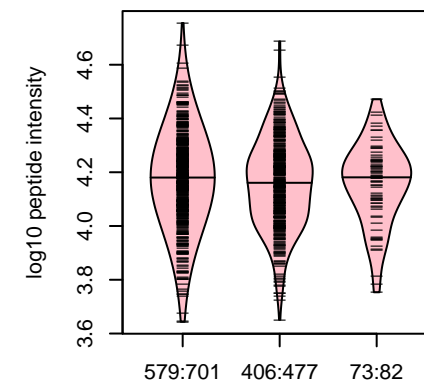
6:31349611:A:G_A
 $p = 0.0034$, $\text{model} = \text{DOM}$, $N = 420$

**SWTAADMAAQITQR pc2
rs1059517 ALT**

6:31349611:A:G_A
 $p = 0.0045$, $\text{model} = \text{REC}$, $N = 411$

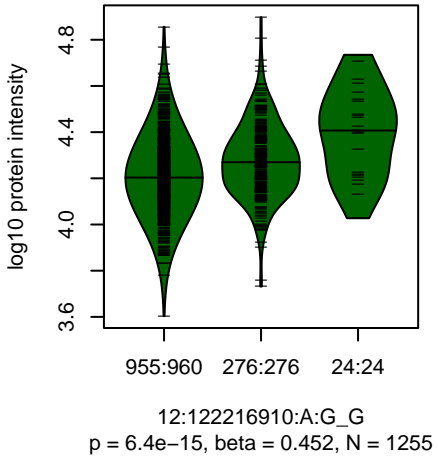
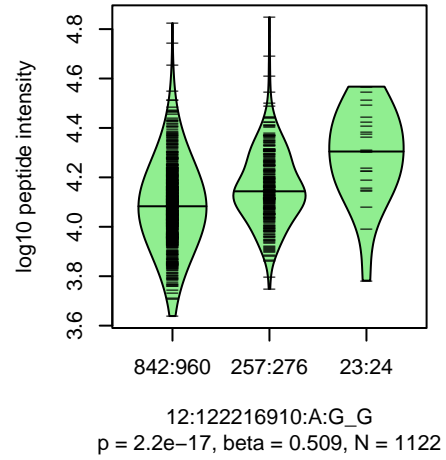
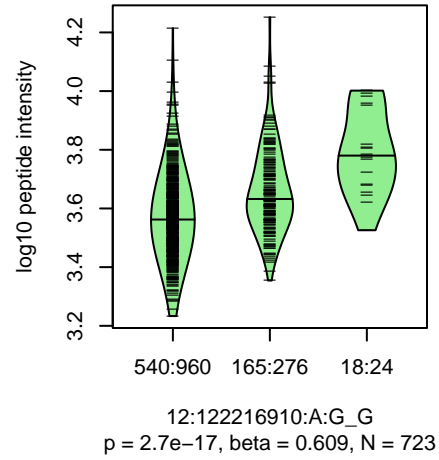
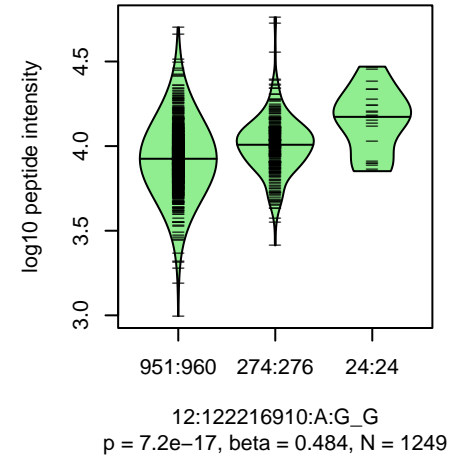
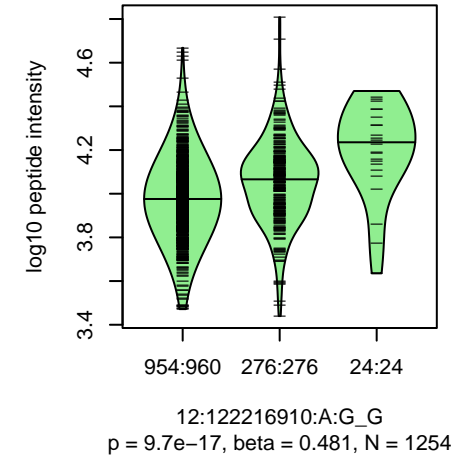
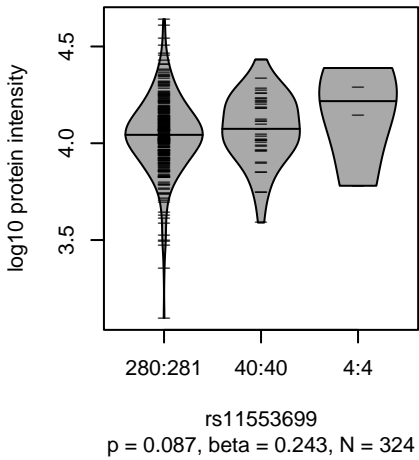
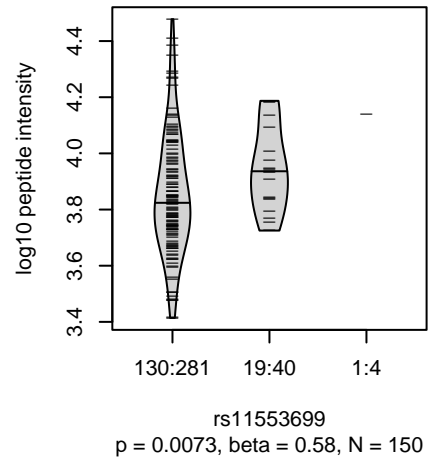
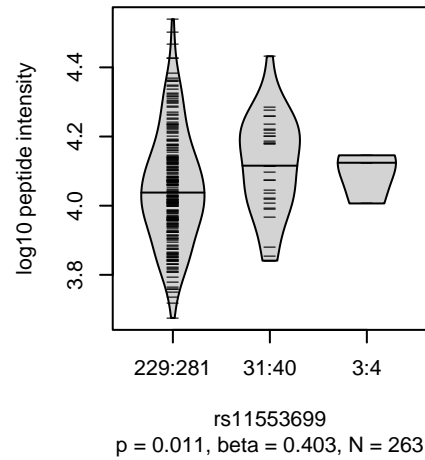
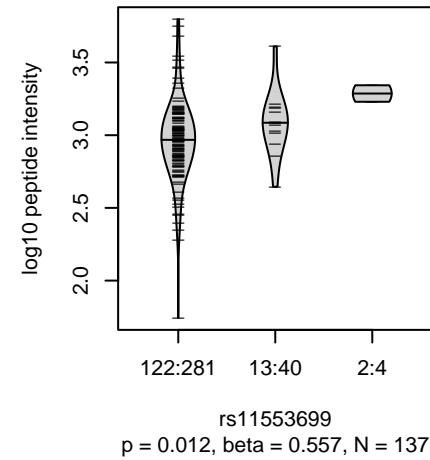
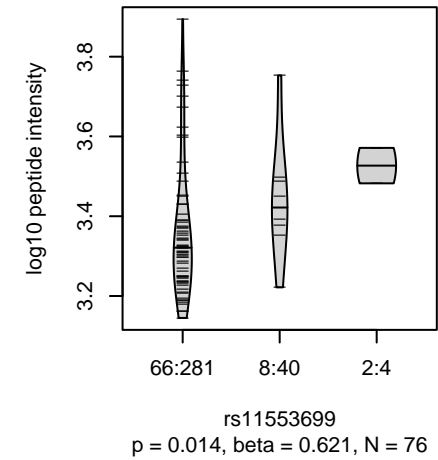
**SWTAADMAAQITK pc2
rs1059517 REF**

6:31349611:A:G_A
 $p = 0.064$, $\text{model} = \text{REC}$, $N = 833$

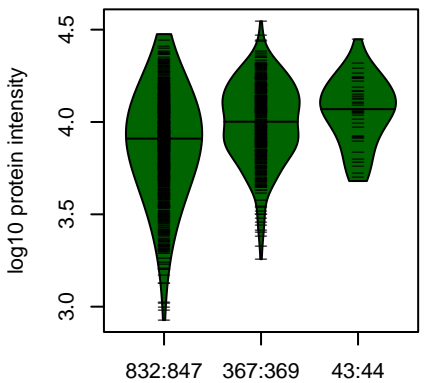
**FDSDAASQR pc2
rs707910 REF**

6:31349611:A:G_A
 $p = 0.14$, $\text{model} = \text{REC}$, $N = 1058$

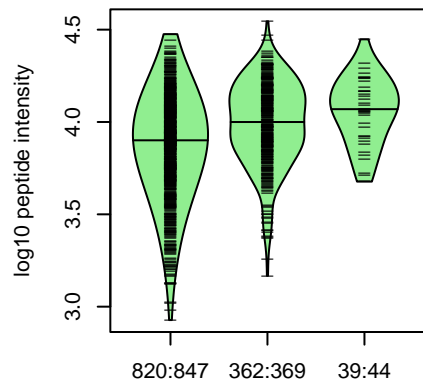
Locus: 138 (Sort: 162)
 Status: Not replicated
 80% power: No
 SNP: 6:31349611:A:G
 rsID: rs9266713
 UniProtID: Q5SRN5
 HGNC gene: HLA-A
 Type: Cis-pQTL

DIAPH1 [trans]**VSAENLQK pc2****EIENEDMR pc2****ELGEYFLFDPK pc2****AGCAVTSLLASELTK pc2****O60610 NP1****VSAENLQK pc2****TAQNLSIFLGSFR pc2****NVILEVNEAVLTESMIQNLIK pc3****SAMMYIQELR pc2**

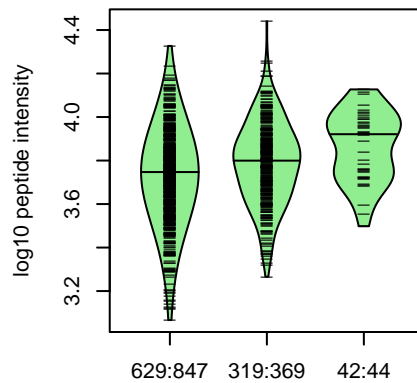
Locus: 139 (Sort: 163)
 Status: Not replicated
 80% power: No
 SNP: 12:122216910:A:G
 rsID: rs11553699
 UniProtID: O60610
 HGNC gene: DIAPH1
 Type: Trans-pQTL

PON2 [cis]

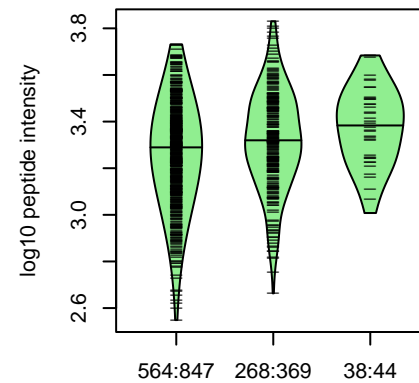
7:95056939:T:C_C
 $p = 6.8e-15$, $\beta = 0.396$, $N = 1242$

YIYVADILAHEIHVLEK pc3

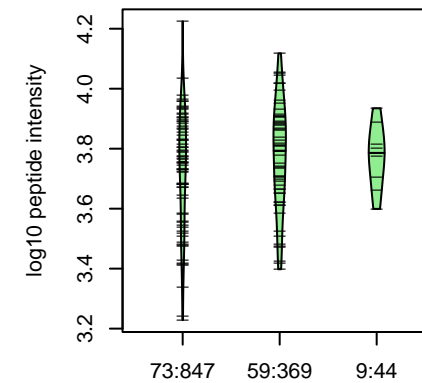
7:95056939:T:C_C
 $p = 3.8e-15$, $\beta = 0.408$, $N = 1221$

EVESVDLPHCHLIK pc3

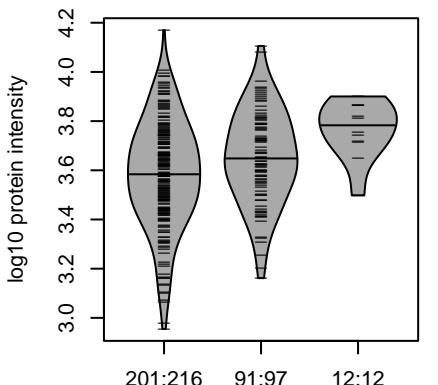
7:95056939:T:C_C
 $p = 6.1e-08$, $\beta = 0.298$, $N = 990$

LFVYDPNPPSSEVLR pc2

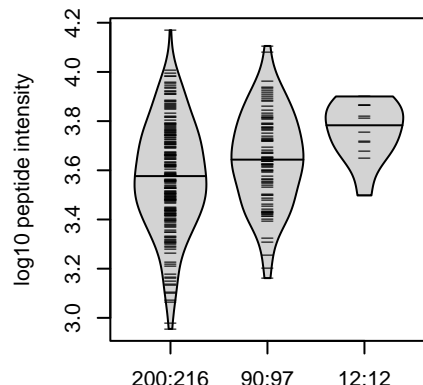
7:95056939:T:C_C
 $p = 2.8e-05$, $\beta = 0.246$, $N = 870$

LLIGTLYHR pc2

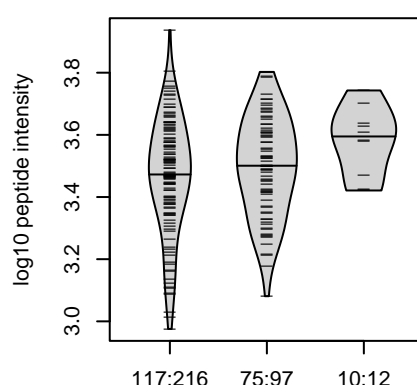
7:95056939:T:C_C
 $p = 0.15$, $\beta = 0.193$, $N = 141$

A0A0J9YXF2 NP5

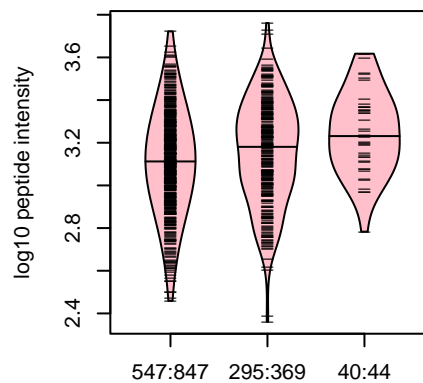
rs10259688
 $p = 0.00016$, $\beta = 0.376$, $N = 304$

YIYVADILAHEIHVLEK pc3

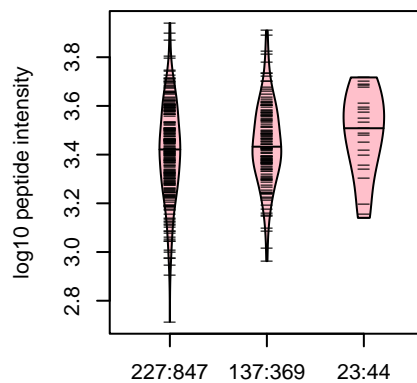
rs10259688
 $p = 9.7e-05$, $\beta = 0.39$, $N = 302$

LFVYDPNPPSSEVLR pc2

rs10259688
 $p = 0.011$, $\beta = 0.295$, $N = 202$

**FEEAENSLHLK pc3
rs12026 REF**

7:95056939:T:C_C
 $p = 9.3e-10$, $\text{model} = \text{REC}$, $N = 882$

**IQNILSEK pc2
rs7493 REF**

7:95056939:T:C_C
 $p = 2.3e-05$, $\text{model} = \text{REC}$, $N = 387$

Locus: 140 (Sort: 164)

Status: Replicated

80% power: No

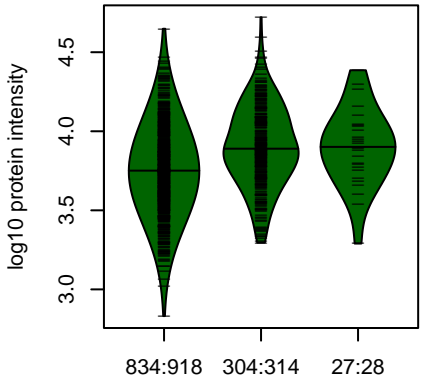
SNP: 7:95056939:T:C

rsID: rs10259688

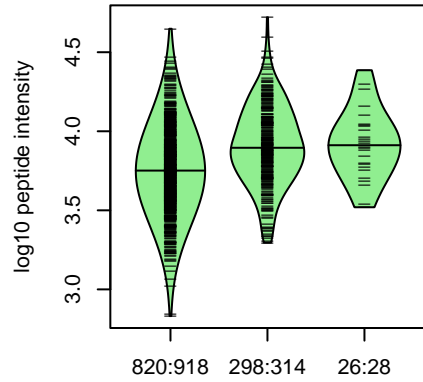
UniProtID: A0A0J9YXF2

HGNC gene: PON2

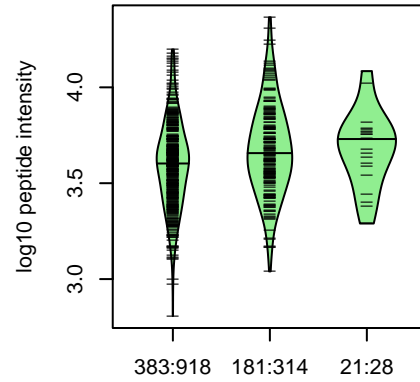
Type: Cis-pQTL

CFHR4 [cis]

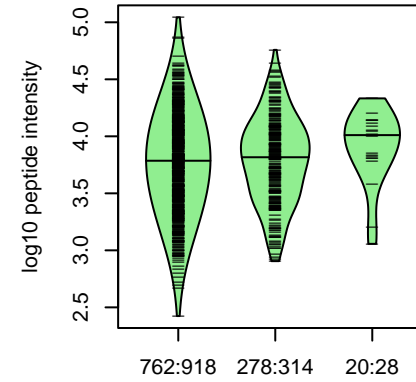
1:196886223:C:T_T
 $p = 1.4e-14$, $\beta = 0.436$, $N = 1165$

FCDMPVFENSR pc2

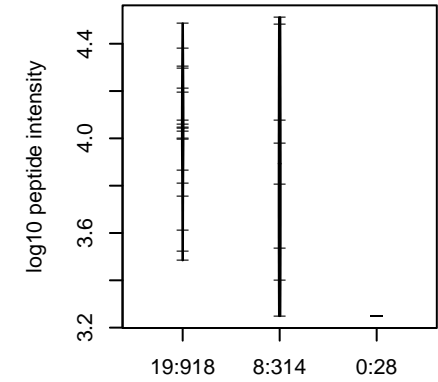
1:196886223:C:T_T
 $p = 6.7e-16$, $\beta = 0.462$, $N = 1144$

VYLPWSR pc2

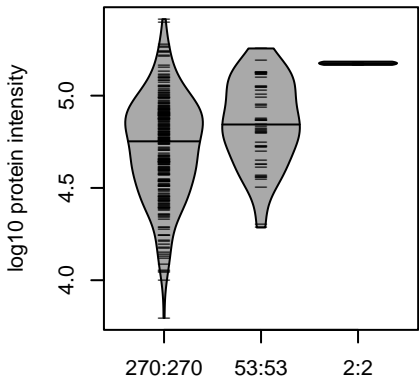
1:196886223:C:T_T
 $p = 0.00047$, $\beta = 0.257$, $N = 585$

CIHPCIITEENMNK pc3

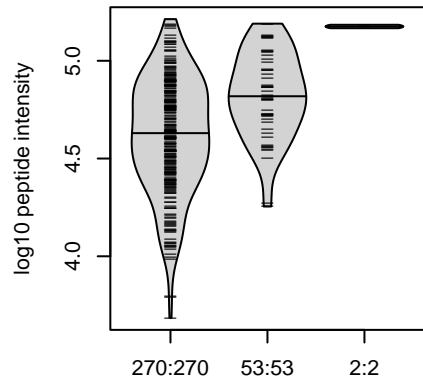
1:196886223:C:T_T
 $p = 0.23$, $\beta = 0.0736$, $N = 1060$

EGIVEYPR pc2

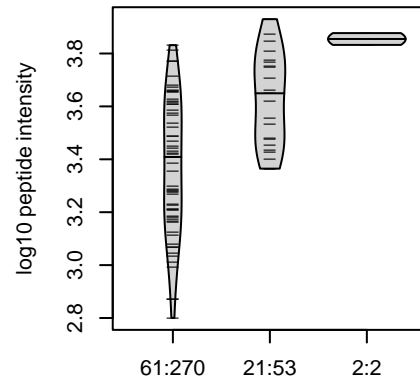
1:196886223:C:T_T
 $p = 0.25$, $\beta = -0.453$, $N = 27$

Q92496 NP5

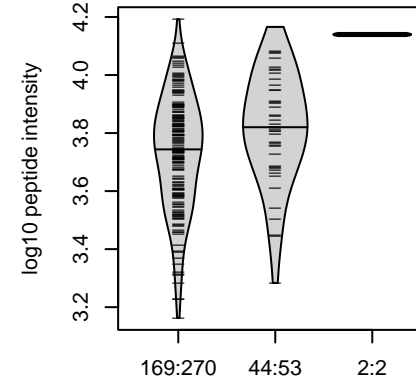
rs61818956
 $p = 0.00094$, $\beta = 0.451$, $N = 325$

FCDMPVFENSR pc2

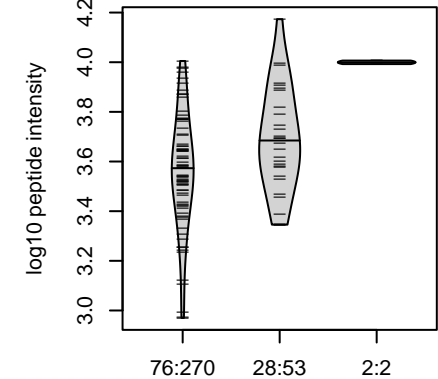
rs61818956
 $p = 1.6e-06$, $\beta = 0.652$, $N = 325$

VEYQCQSYELQGSK pc2

rs61818956
 $p = 3.9e-05$, $\beta = 0.816$, $N = 84$

PCEFPEIQHGHLIYENTR pc4

rs61818956
 $p = 0.002$, $\beta = 0.468$, $N = 215$

YVTCNSGDWSEPPR pc2

rs61818956
 $p = 0.0045$, $\beta = 0.528$, $N = 106$

Locus: 141 (Sort: 165)

Status: Not replicated

80% power: No

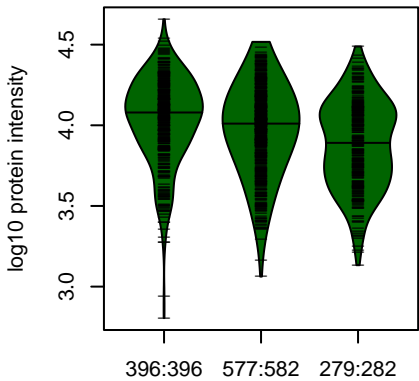
SNP: 1:196886223:C:T

rsID: rs61818956

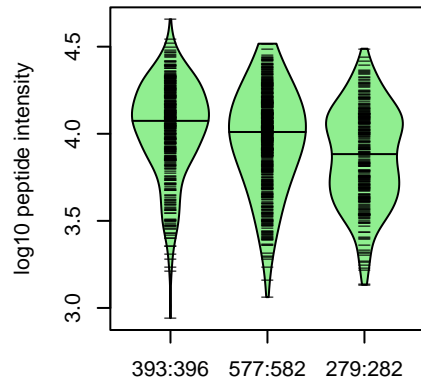
UniProtID: Q92496

HGNC gene: CFHR4

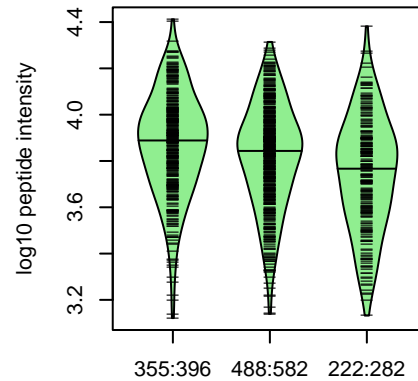
Type: Cis-pQTL

GALC [cis]

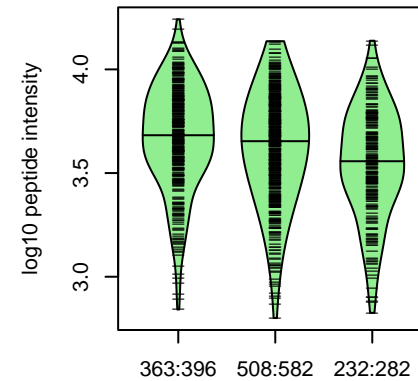
396:396 577:582 279:282
 14:88360524:C:T_T
 $p = 1.4e-14$, $\beta = -0.294$, $N = 1252$

SLWTDIPVNF PK pc2

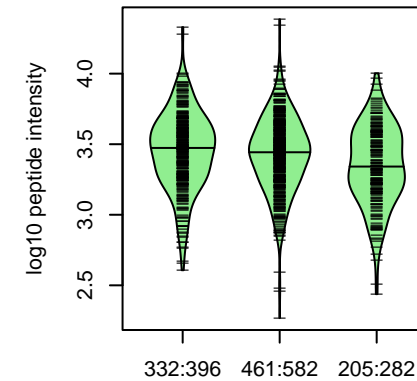
393:396 577:582 279:282
 14:88360524:C:T_T
 $p = 8.5e-15$, $\beta = -0.297$, $N = 1249$

GYEWWLMK pc2

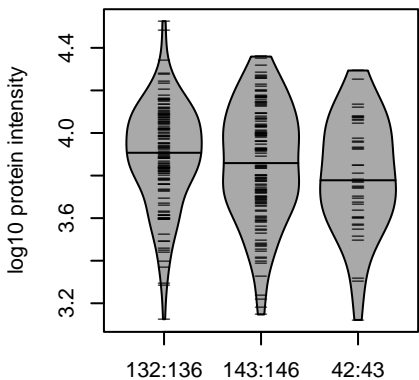
355:396 488:582 222:282
 14:88360524:C:T_T
 $p = 2.5e-11$, $\beta = -0.278$, $N = 1065$

GSFSEIPELQVWYTK pc2

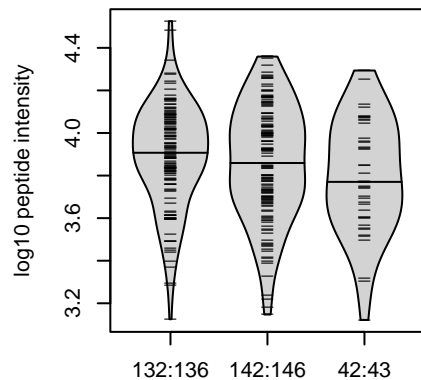
363:396 508:582 232:282
 14:88360524:C:T_T
 $p = 2.5e-08$, $\beta = -0.229$, $N = 1103$

VTGDLAGWIIYALGRVEVTAK pc3

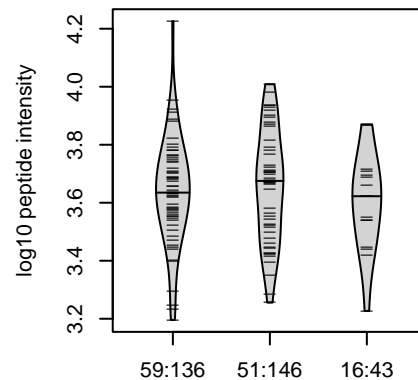
332:396 461:582 205:282
 14:88360524:C:T_T
 $p = 4e-07$, $\beta = -0.22$, $N = 998$

P54803 NP5

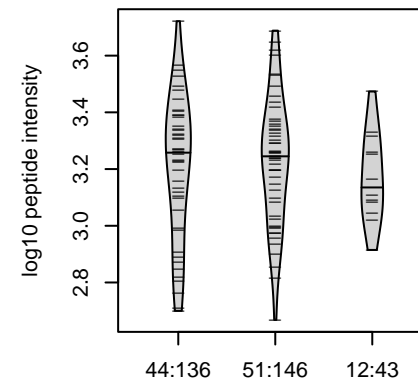
132:136 143:146 42:43
 rs17684213
 $p = 0.2$, $\beta = -0.104$, $N = 317$

SLWTDIPVNF PK pc2

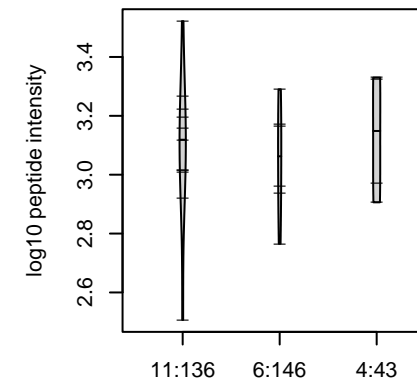
132:136 142:146 42:43
 rs17684213
 $p = 0.21$, $\beta = -0.101$, $N = 316$

EFDGIGAVSGGGATSR pc2

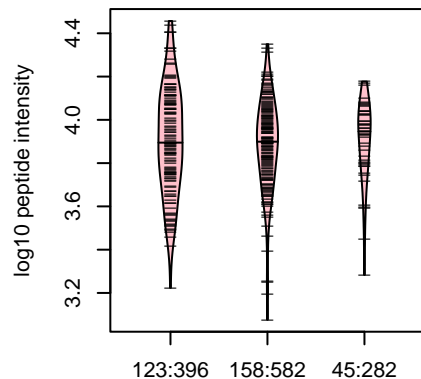
59:136 51:146 16:43
 rs17684213
 $p = 0.23$, $\beta = -0.152$, $N = 126$

VTGDLAGWIIYALGRVEVTAK pc3EIGGDGQTTDGTESHPHMHYALDENYF

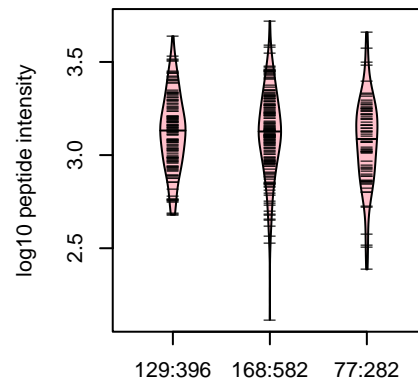
44:136 51:146 12:43
 rs17684213
 $p = 0.36$, $\beta = -0.131$, $N = 107$



11:136 6:146 4:43
 rs17684213
 $p = 0.46$, $\beta = 0.193$, $N = 21$

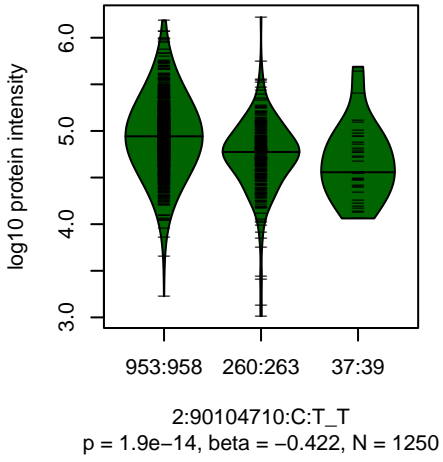
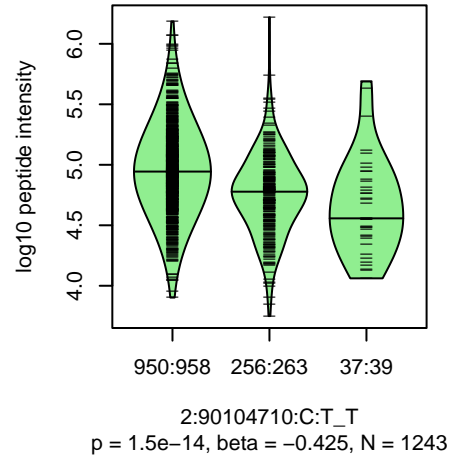
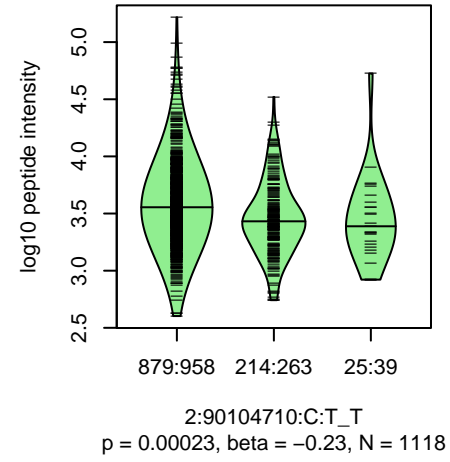
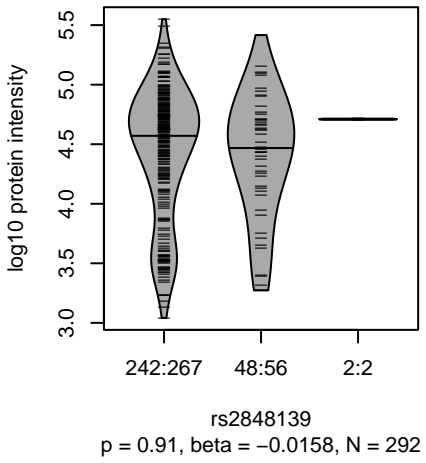
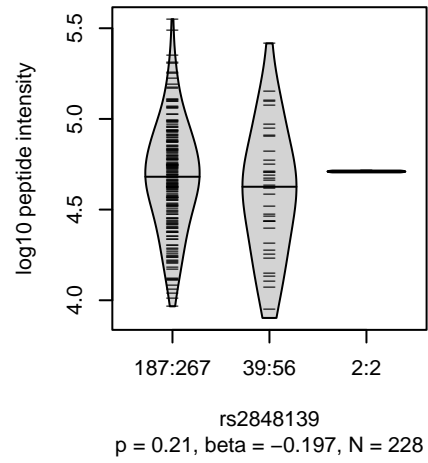
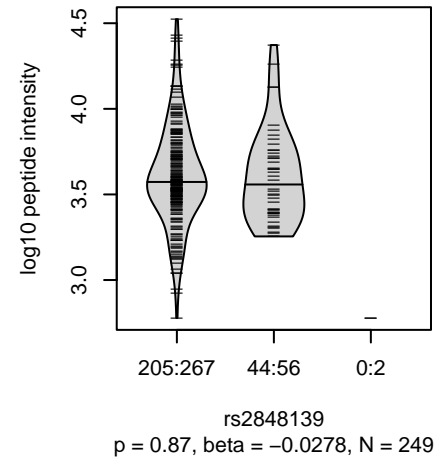
**VVNVIGAHYPGTHSAK pc3
rs34362748 ALT**

123:396 158:582 45:282
 14:88360524:C:T_T
 $p = 9.9e-06$, $\text{model} = \text{DOM}$, $N = 326$

**VVDVIGAHYPGTHSAK pc4
rs34362748 REF**

129:396 168:582 77:282
 14:88360524:C:T_T
 $p = 0.14$, $\text{model} = \text{REC}$, $N = 374$

Locus: 142 (Sort: 166)
 Status: Not replicated
 80% power: No
 SNP: 14:88360524:C:T
 rsID: rs17684213
 UniProtID: P54803
 HGNC gene: GALC
 Type: Cis-pQTL

IGKV1-17 [cis]**NDLGWYQQK pc2****LIYAASSLQSGVPSR pc2****P01599 NP3****NDLGWYQQK pc2****LIYAASSLQSGVPSR pc2**

Locus: 143 (Sort: 167)

Status: Not replicated

80% power: No

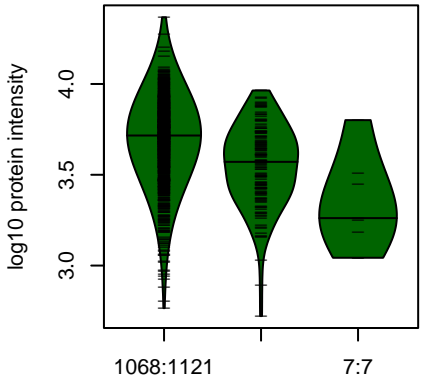
SNP: 2:90104710:C:T

rsID: rs2848139

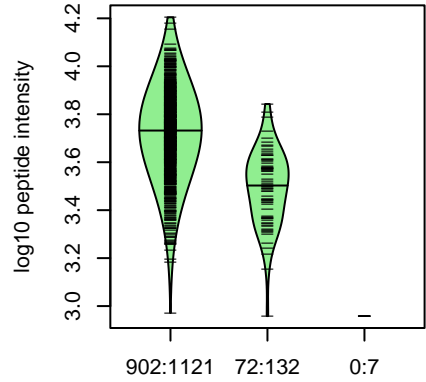
UniProtID: P01599

HGNC gene: IGKV1-17

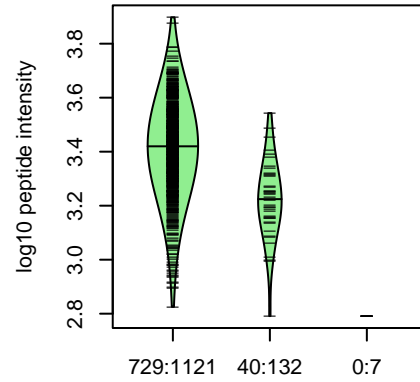
Type: Cis-pQTL

MAN2A2 [cis]

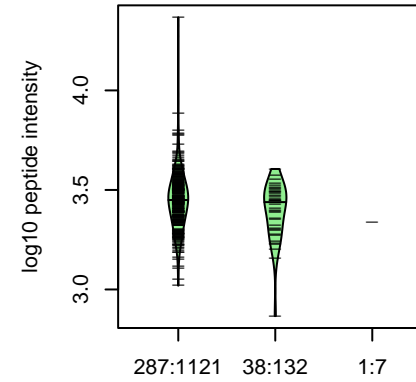
15:91466158:G:A_A
 $p = 2e-14$, $\beta = -0.642$, $N = 1201$

MQLPGPLR pc2

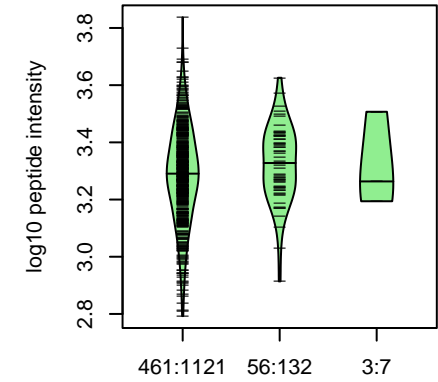
15:91466158:G:A_A
 $p = 3.2e-22$, $\beta = -1.15$, $N = 974$

SFHPLASSLPcdfHLLNLR pc4

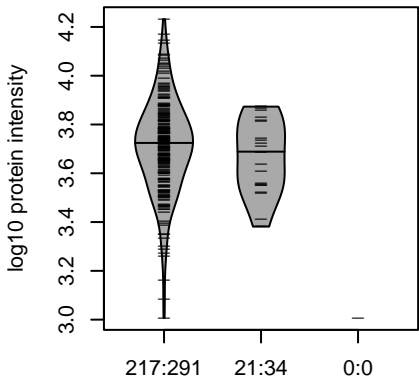
15:91466158:G:A_A
 $p = 3.3e-10$, $\beta = -1$, $N = 769$

AITEANVAER pc2

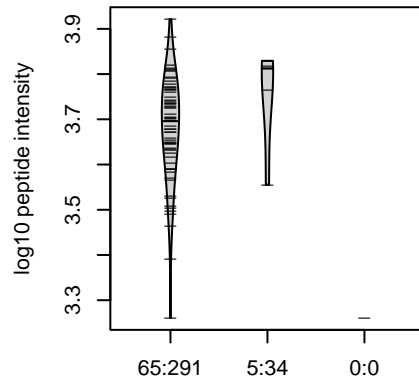
15:91466158:G:A_A
 $p = 0.038$, $\beta = -0.336$, $N = 326$

LTLHTAQUALGVSSLK pc3

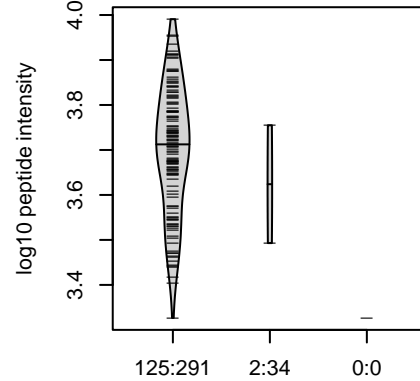
15:91466158:G:A_A
 $p = 0.062$, $\beta = 0.237$, $N = 520$

P49641 NP5

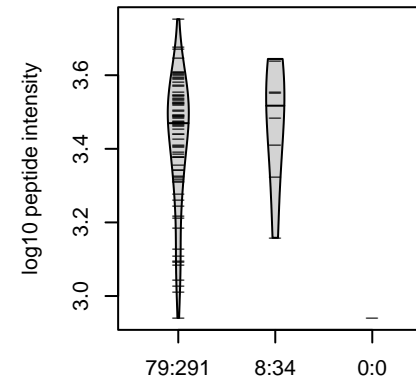
rs71407348
 $p = 0.23$, $\beta = -0.27$, $N = 238$

AALLDQYR pc2

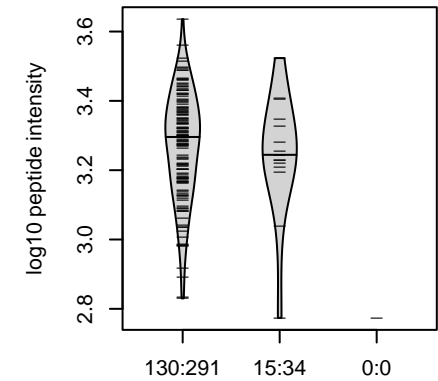
rs71407348
 $p = 0.31$, $\beta = 0.453$, $N = 70$

MQLPGPLR pc2

rs71407348
 $p = 0.31$, $\beta = -0.701$, $N = 127$

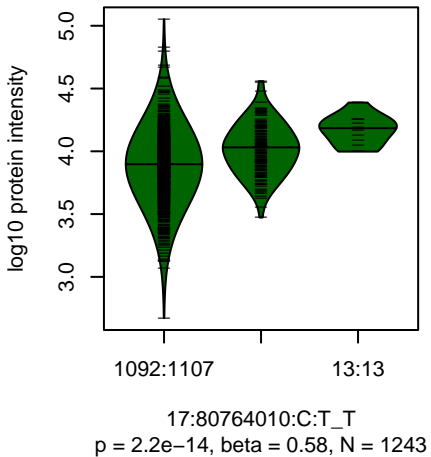
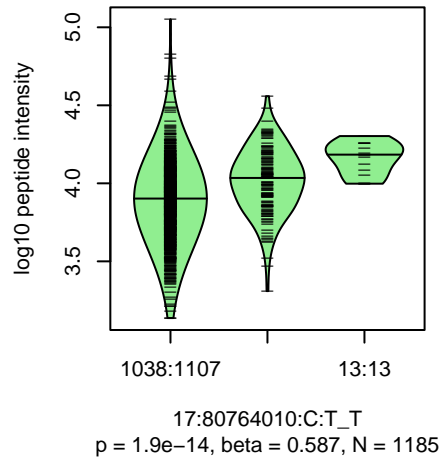
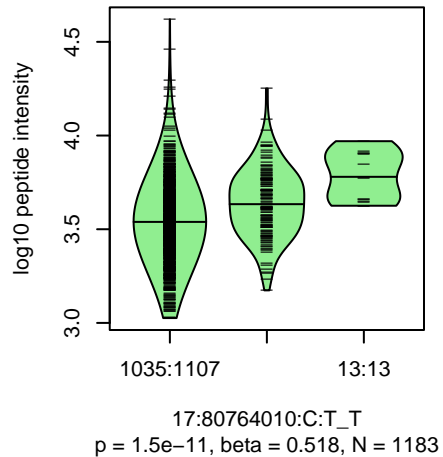
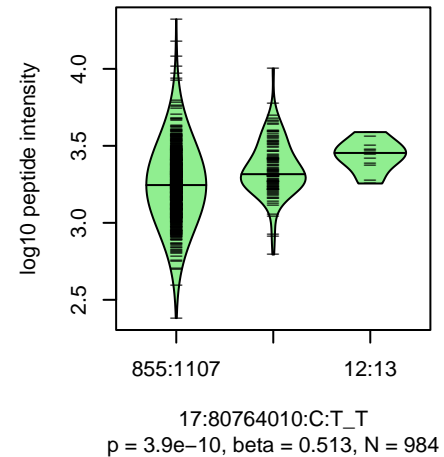
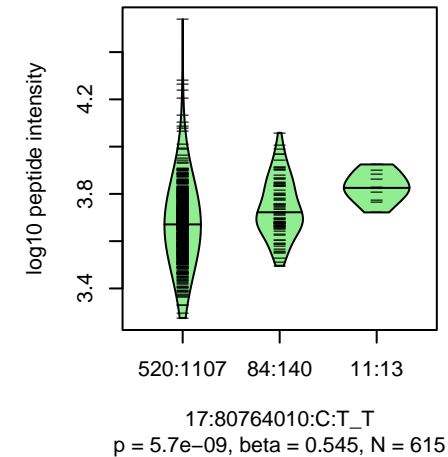
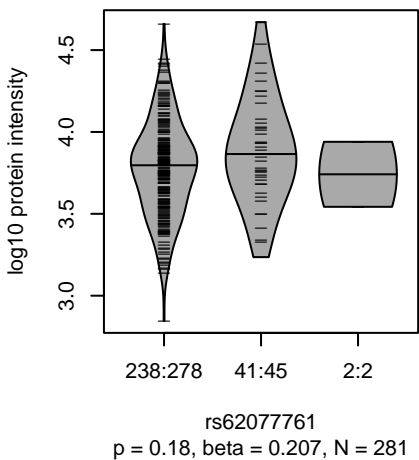
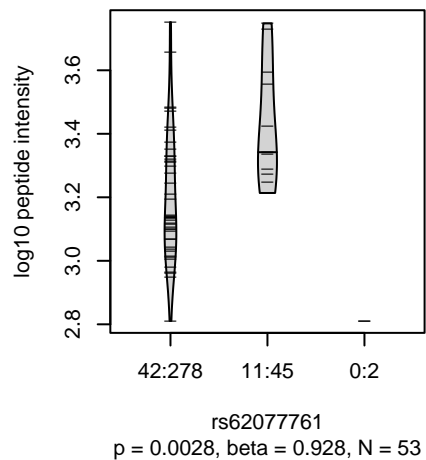
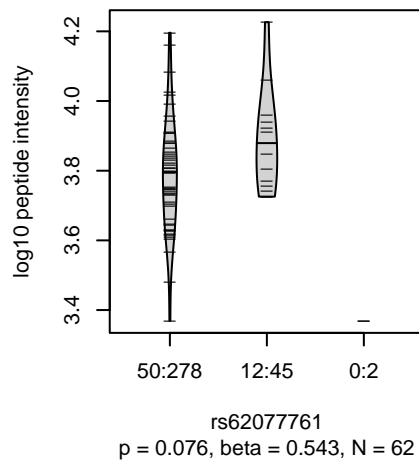
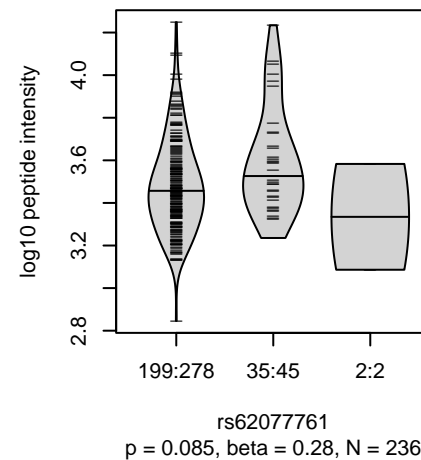
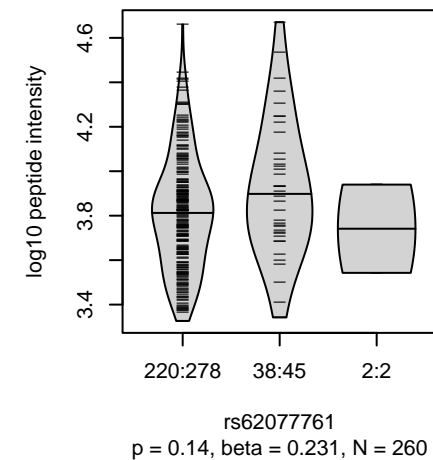
TLQAEEDTLPSAETALILHR pc3

rs71407348
 $p = 0.39$, $\beta = 0.306$, $N = 87$

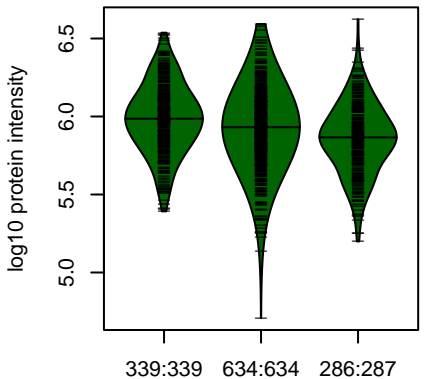
GAEVLYSLAAAHAR pc2

rs71407348
 $p = 0.54$, $\beta = -0.162$, $N = 145$

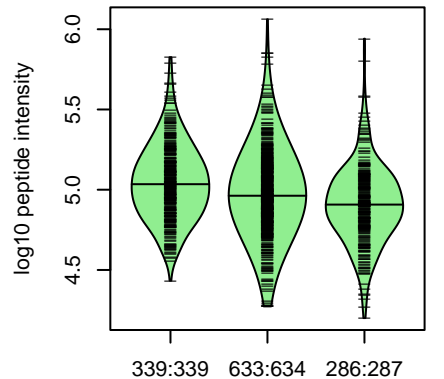
Locus: 144 (Sort: 168)
 Status: Not replicated
 80% power: No
 SNP: 15:91466158:G:A
 rsID: rs71407348
 UniProtID: P49641
 HGNC gene: MAN2A2
 Type: Cis-pQTL

FN3K [cis]**VIDLPGGGAAFVMEHLK pc3****AYDTDAGPVFVK pc2****QMFEGEVASLEALR pc2****SPSLGTMR pc2****Q9H479 NP1****QMFEGEVASLEALR pc2****SPSLGTMR pc2****AYDTDAGPVFVK pc2****VIDLPGGGAAFVMEHLK pc3**

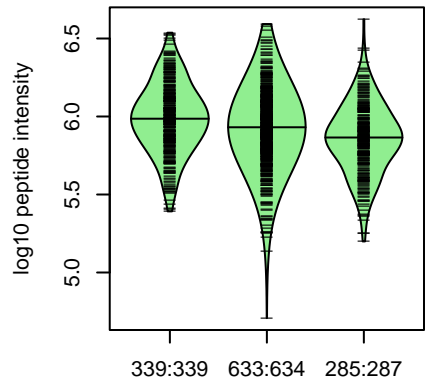
Locus: 145 (Sort: 169)
 Status: Not replicated
 80% power: No
 SNP: 17:80764010:C:T
 rsID: rs62077761
 UniProtID: Q9H479
 HGNC gene: FN3K
 Type: Cis-pQTL

DEFA1 [trans]

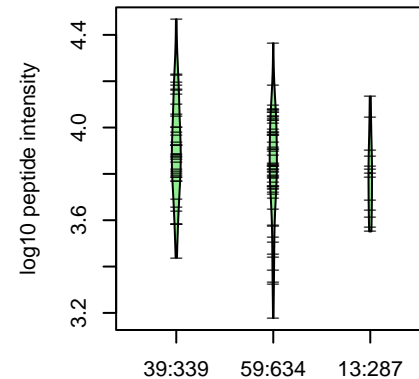
17:26694861:G:A_G
 $p = 9.2e-13$, $\beta = -0.282$, $N = 1259$

YGTCIYQGR pc2

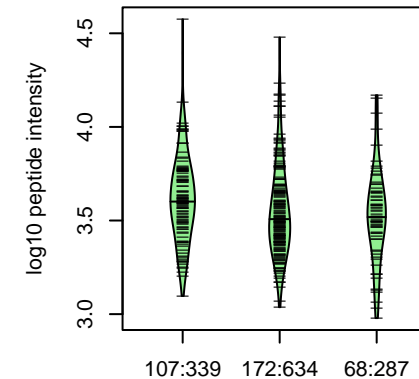
17:26694861:G:A_G
 $p = 2.3e-13$, $\beta = -0.289$, $N = 1258$

IPACIAGER pc2

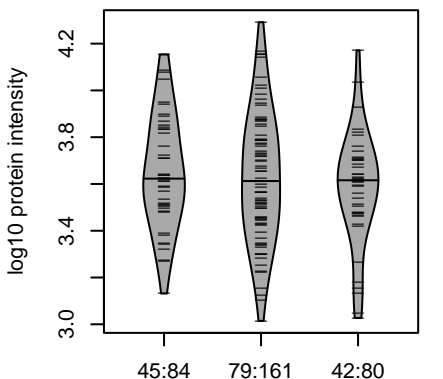
17:26694861:G:A_G
 $p = 9.2e-13$, $\beta = -0.282$, $N = 1257$

IPACIAGER pc2

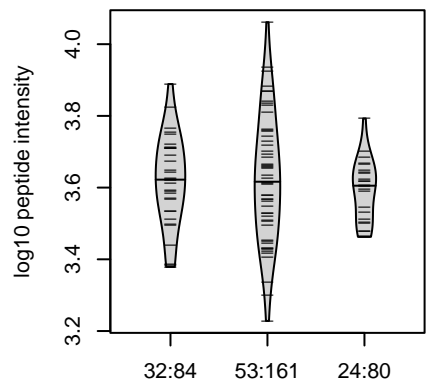
17:26694861:G:A_G
 $p = 0.012$, $\beta = -0.357$, $N = 111$

NMACYCR pc2

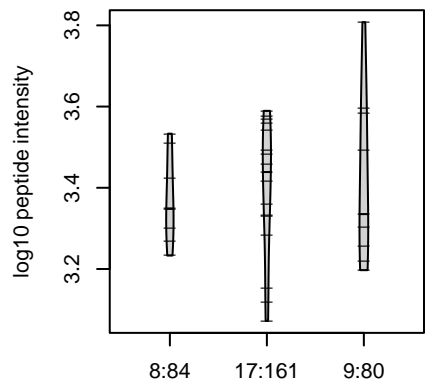
17:26694861:G:A_G
 $p = 0.045$, $\beta = -0.151$, $N = 347$

P59665 NP4

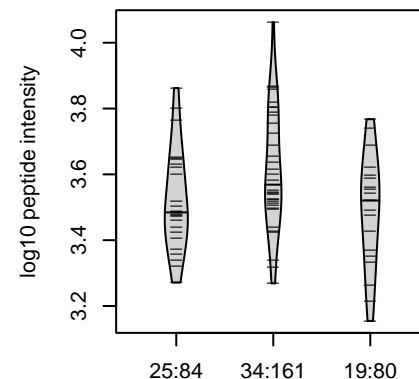
rs704
 $p = 0.97$, $\beta = -0.00295$, $N = 281$

AYDTDAGPVFVK pc2

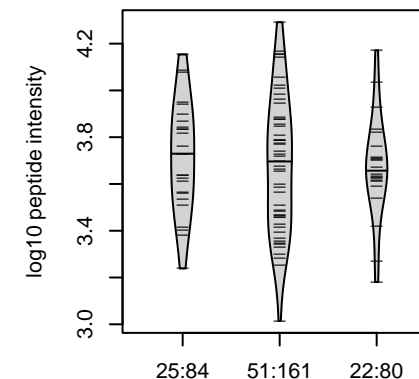
rs704
 $p = 0.7$, $\beta = -0.0502$, $N = 109$

AFGGPGAGCISEGR pc2

rs704
 $p = 0.73$, $\beta = 0.0779$, $N = 34$

LQAQLDIEK pc2

rs704
 $p = 0.83$, $\beta = -0.0315$, $N = 78$

VIDLPGGGAAFVMEHLK pc3

rs704
 $p = 0.84$, $\beta = -0.0279$, $N = 98$

Locus: 146 (Sort: 170)

Status: Not replicated

80% power: No

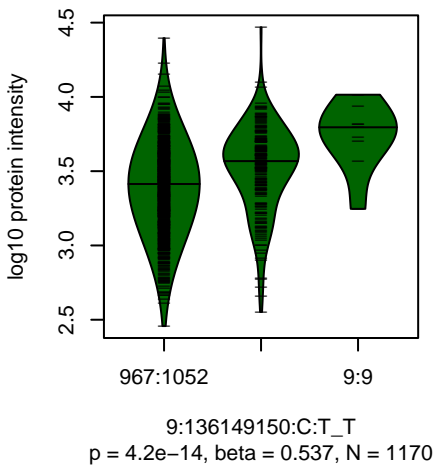
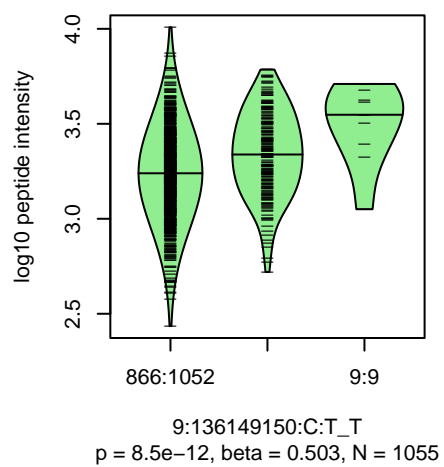
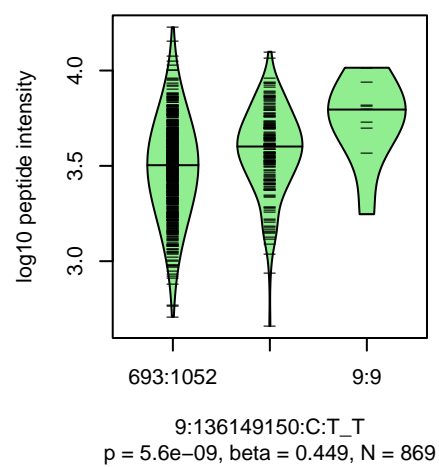
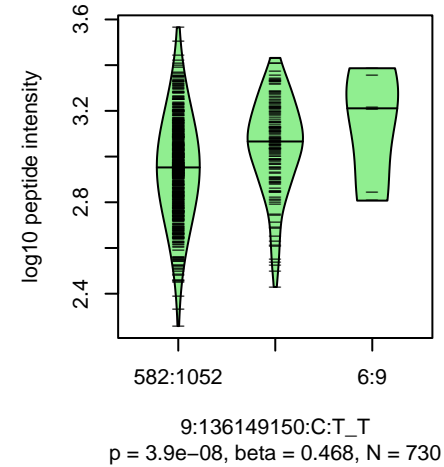
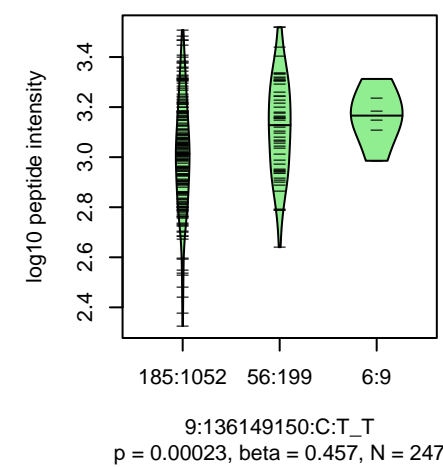
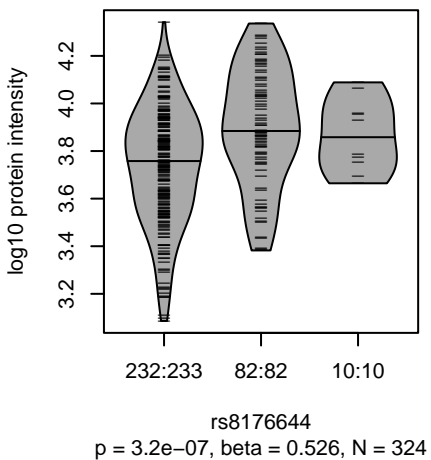
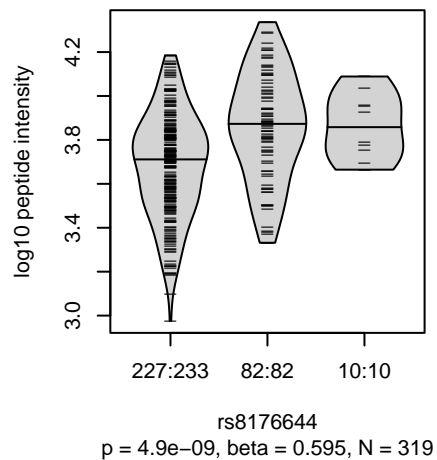
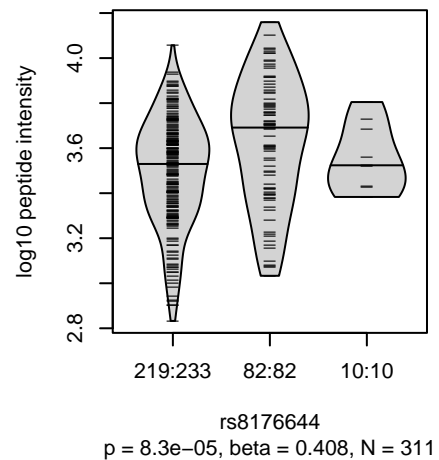
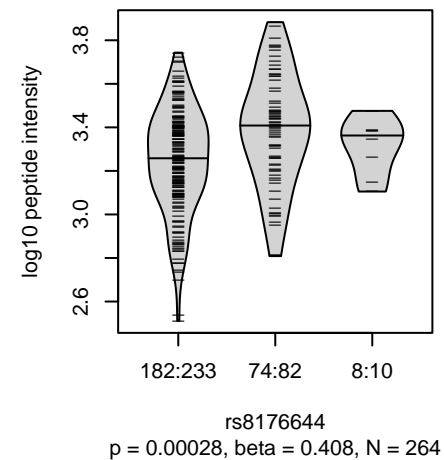
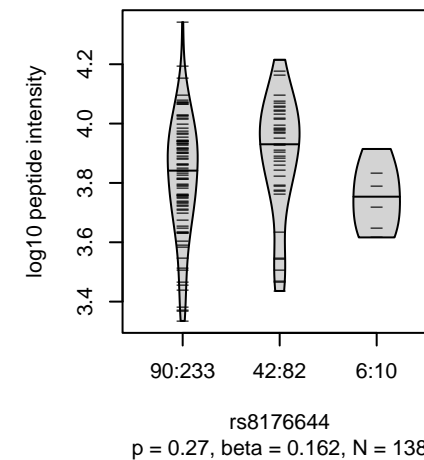
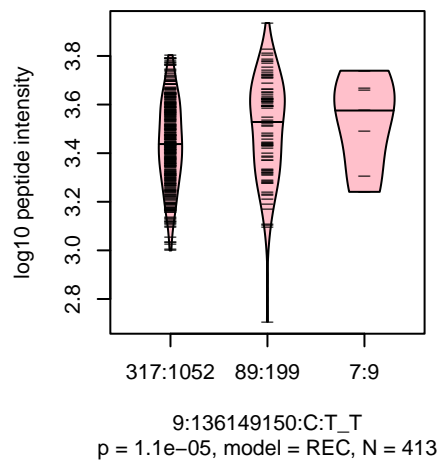
SNP: 17:26694861:G:A

rsID: rs704

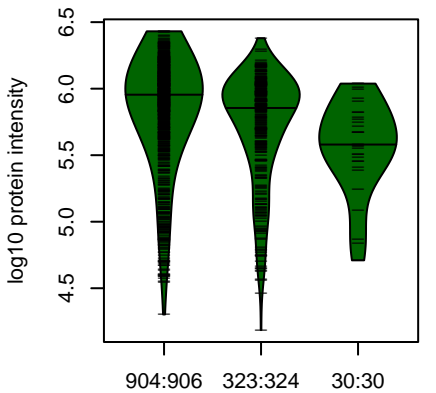
UniProtID: P59665

HGNC gene: DEFA1

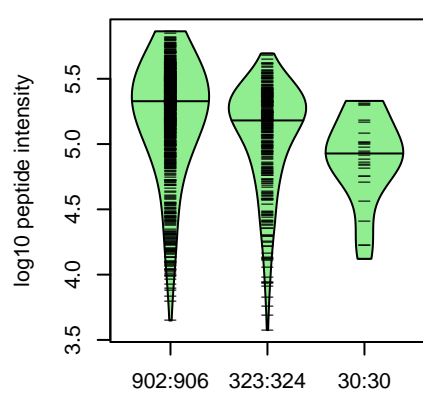
Type: Trans-pQTL

GPR116 [trans]**DVIVHPLPLK pc2****LNIMVDPLEATVSCSGSHHIK pc4****LILDIFEYECK pc2****KIDVMPIQILANEEMK pc3****Q8IZF2 NP2****LNIMVDPLEATVSCSGSHHIK pc4****DVIVHPLPLK pc2****LILDIFEYECK pc2****CVGSQWEEK pc2****VTFHMGSSSLPAAK pc3
rs586024 ALT**

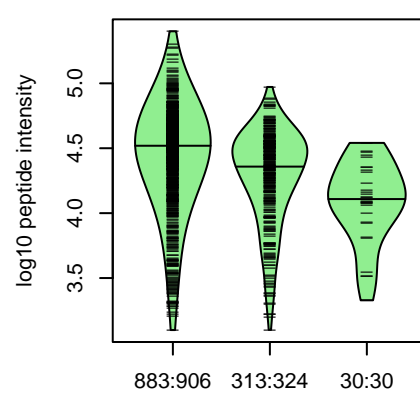
Locus: 147 (Sort: 171)
Status: Replicated
80% power: No
SNP: 9:136149150:C:T
rsID: rs8176644
UniProtID: Q8IZF2
HGNC gene: GPR116
Type: Trans-pQTL

SERPINA10 [trans]

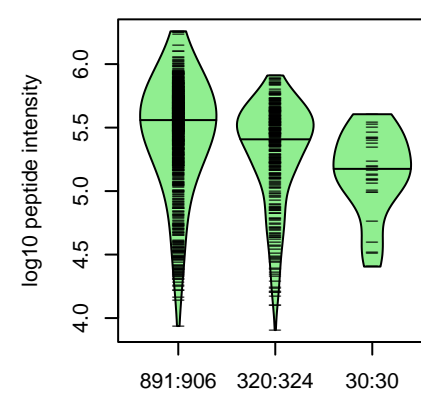
13:113813853:A:G_G
 $p = 5.3e-14$, $\beta = -0.41$, $N = 1257$

YEMHELLR pc2

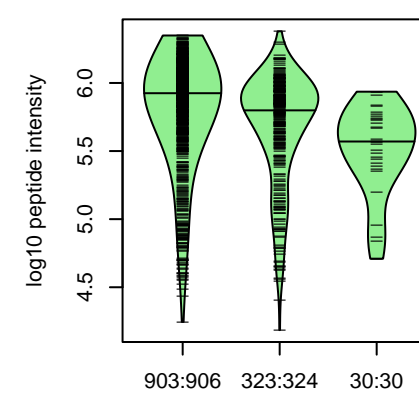
13:113813853:A:G_G
 $p = 3e-16$, $\beta = -0.445$, $N = 1255$

LMNHYINK pc2

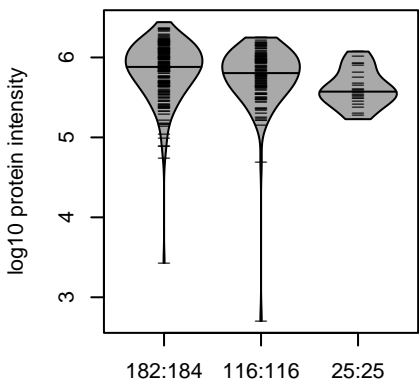
13:113813853:A:G_G
 $p = 4e-16$, $\beta = -0.447$, $N = 1226$

LILVDYILFK pc2

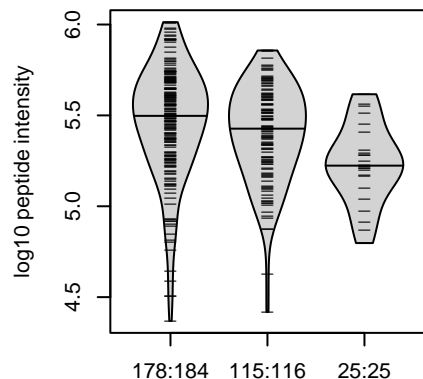
13:113813853:A:G_G
 $p = 2e-15$, $\beta = -0.434$, $N = 1241$

ETSNFGFSLLR pc2

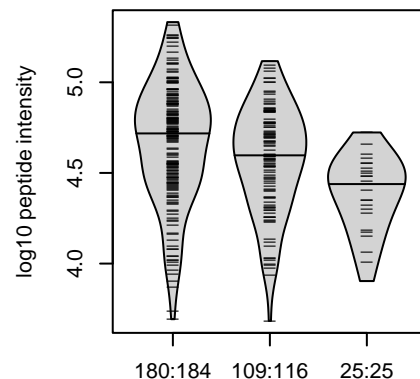
13:113813853:A:G_G
 $p = 2.1e-15$, $\beta = -0.432$, $N = 1256$

G3V2W1 NP2

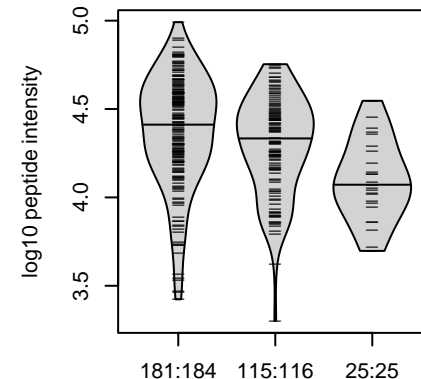
rs3024718
 $p = 0.0088$, $\beta = -0.226$, $N = 323$

VPMMYGAGK pc2

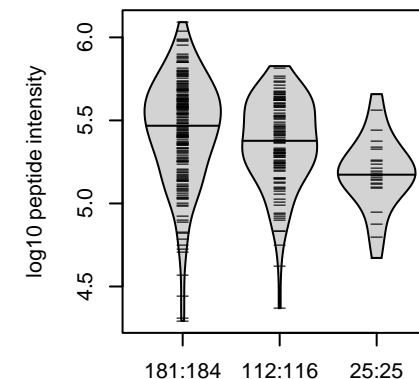
rs3024718
 $p = 0.0012$, $\beta = -0.279$, $N = 318$

GTEAVAGILSEITAYSMPPVIK pc3

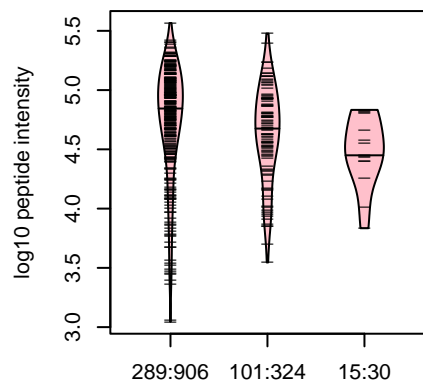
rs3024718
 $p = 0.0017$, $\beta = -0.271$, $N = 314$

LMNHYINK pc2

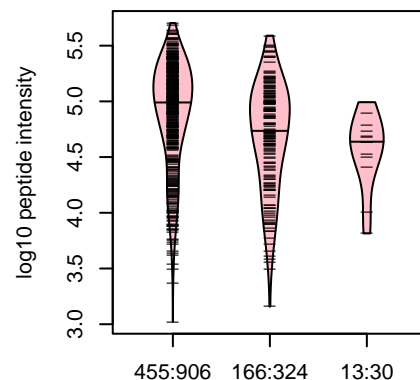
rs3024718
 $p = 0.0018$, $\beta = -0.268$, $N = 321$

LILVDYILFK pc2

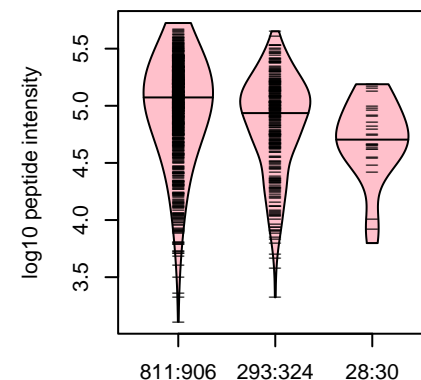
rs3024718
 $p = 0.0019$, $\beta = -0.268$, $N = 318$

**NLELGLSQGSFAFIHK pc3
rs2232700 ALT**

13:113813853:A:G_G
 $p = 0.046$, $\text{model} = \text{DOM}$, $N = 405$

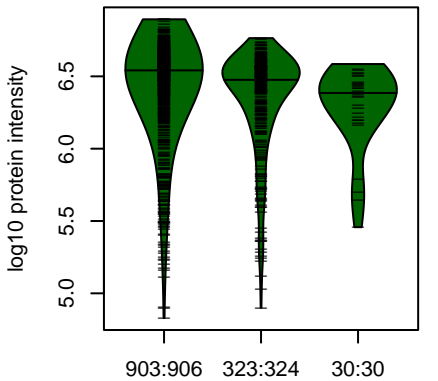
**NLELGLTQGSFAFIHK pc3
rs2232700 REF**

13:113813853:A:G_G
 $p = 0.47$, $\text{model} = \text{DOM}$, $N = 634$

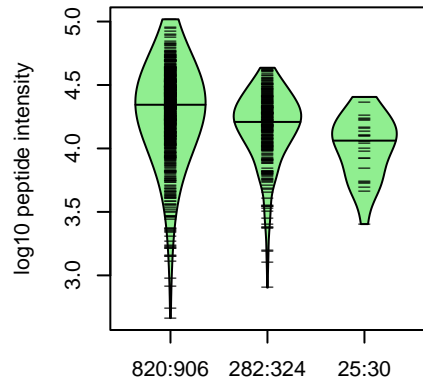
**ETLSRNLELGLTQGSFAFIHK pc4
rs2232700 REF**

13:113813853:A:G_G
 $p = 0.6$, $\text{model} = \text{REC}$, $N = 1132$

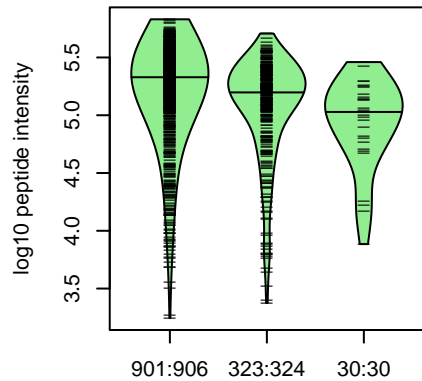
Locus: 148 (Sort: 172)
 Status: Not replicated
 80% power: No
 SNP: 13:113813853:A:G
 rsID: rs3024718
 UniProtID: G3V2W1
 HGNC gene: SERPINA10
 Type: Trans-pQTL

PROZ [cis]

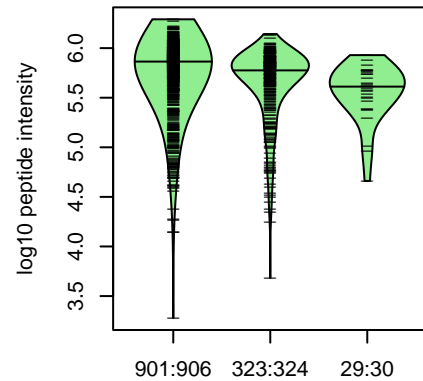
13:113813853:A:G_G
 $p = 8.7e-13$, $\beta = -0.39$, $N = 1256$

NECHPER pc2

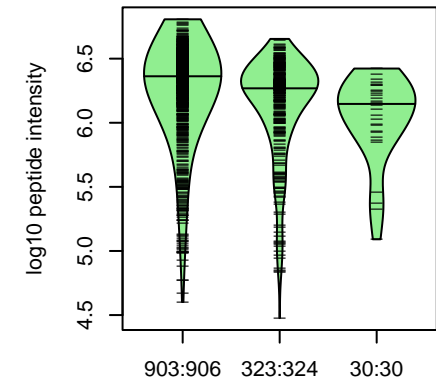
13:113813853:A:G_G
 $p = 2.4e-16$, $\beta = -0.477$, $N = 1127$

APDLQLDPWQVK pc2

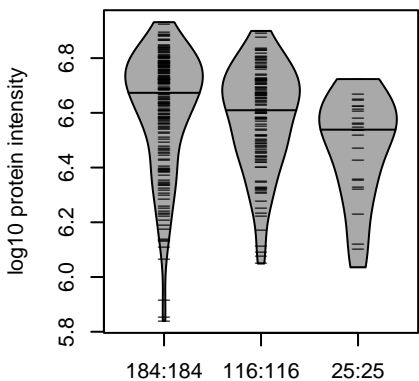
13:113813853:A:G_G
 $p = 8.7e-16$, $\beta = -0.438$, $N = 1254$

DFAEHLIPR pc2

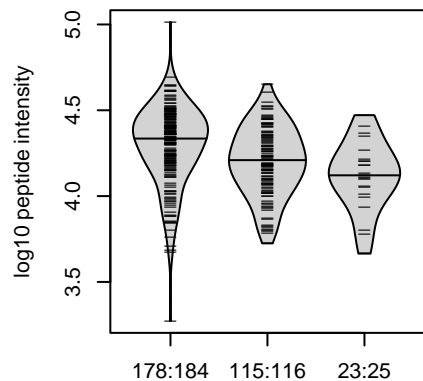
13:113813853:A:G_G
 $p = 9.3e-16$, $\beta = -0.44$, $N = 1253$

RAPDLQLDPWQVK pc3

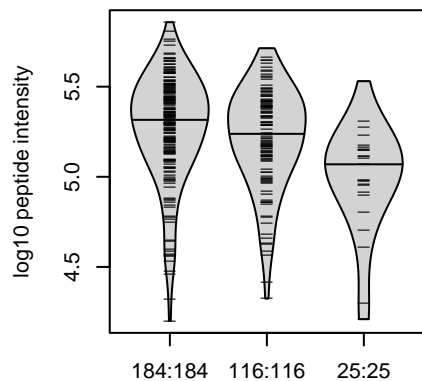
13:113813853:A:G_G
 $p = 4e-15$, $\beta = -0.428$, $N = 1256$

P22891 NP2

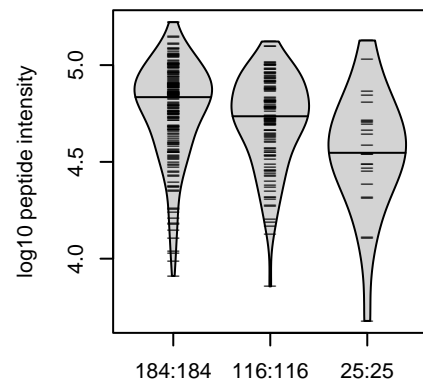
rs3024718
 $p = 0.0059$, $\beta = -0.237$, $N = 325$

NECHPER pc2

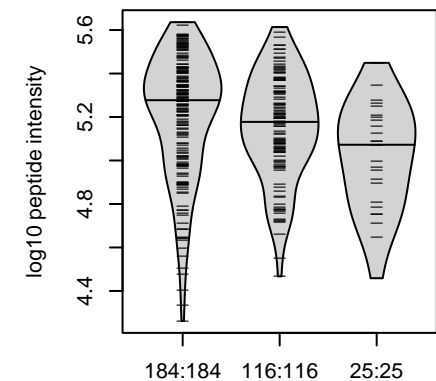
rs3024718
 $p = 1.7e-06$, $\beta = -0.416$, $N = 316$

ITHVHVHMR pc2

rs3024718
 $p = 3e-04$, $\beta = -0.309$, $N = 325$

SSVAAMHWMDGSVVTR pc2

rs3024718
 $p = 0.0025$, $\beta = -0.259$, $N = 325$

APDLQLDPWQVK pc2

rs3024718
 $p = 0.0026$, $\beta = -0.258$, $N = 325$

Locus: 148 (Sort: 173)

Status: Not replicated

80% power: No

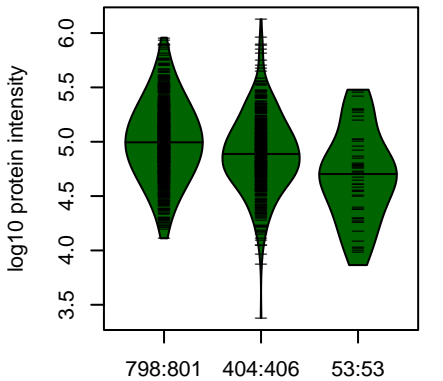
SNP: 13:113813853:A:G

rsID: rs3024718

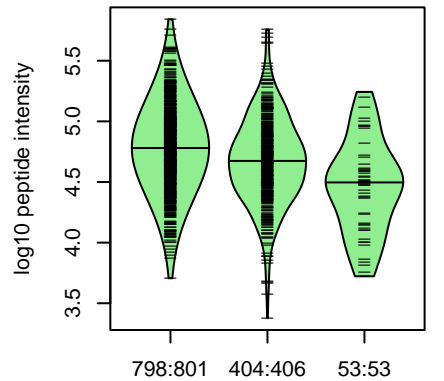
UniProtID: P22891

HGNC gene: PROZ

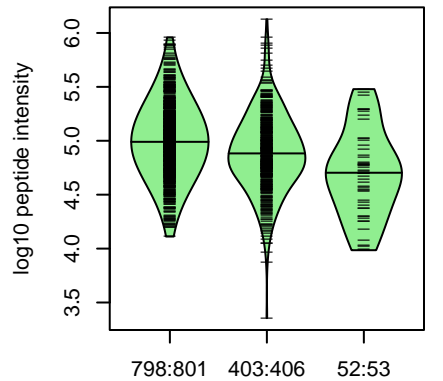
Type: Cis-pQTL

PEBP4 [cis]

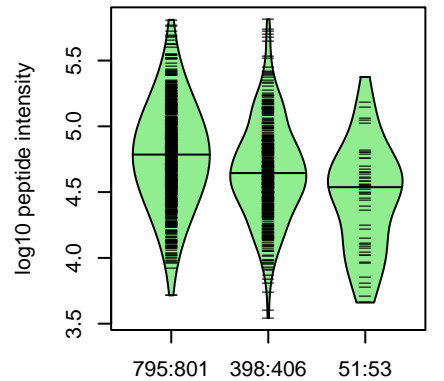
8:22785047:C:T_T
 $p = 6.1e-14$, $\beta = -0.366$, $N = 1255$

ITSWMEPIVK pc2

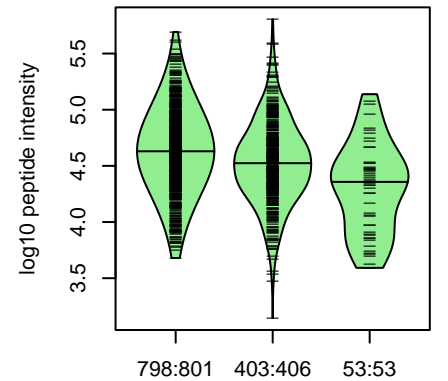
8:22785047:C:T_T
 $p = 5.2e-13$, $\beta = -0.352$, $N = 1255$

VVPDCNNYR pc2

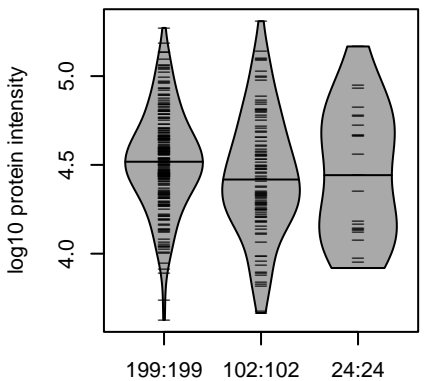
8:22785047:C:T_T
 $p = 7.3e-13$, $\beta = -0.351$, $N = 1253$

IQGQELSAYQAPSPPAHSGFHR pc

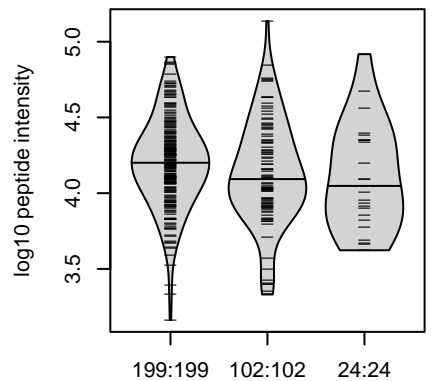
8:22785047:C:T_T
 $p = 2e-12$, $\beta = -0.346$, $N = 1244$

YQFFVYLQEGK pc2

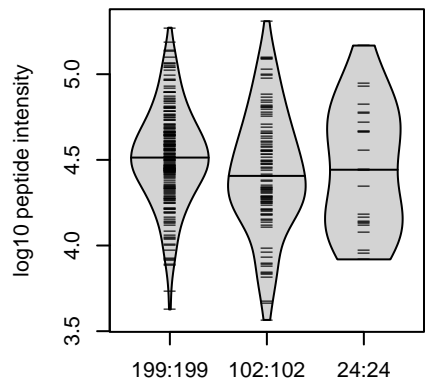
8:22785047:C:T_T
 $p = 2.6e-12$, $\beta = -0.342$, $N = 1254$

Q96S96 NP3

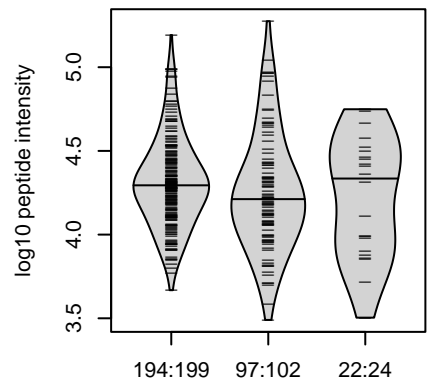
rs73218763
 $p = 0.08$, $\beta = -0.151$, $N = 325$

YQFFVYLQEGK pc2

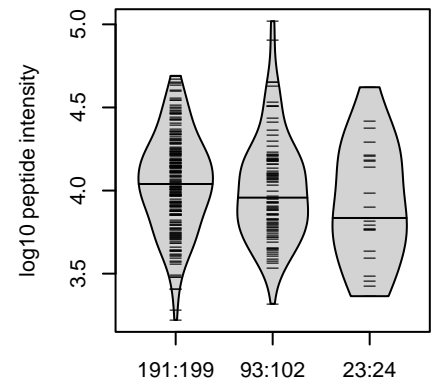
rs73218763
 $p = 0.077$, $\beta = -0.154$, $N = 325$

ITSWMEPIVK pc2

rs73218763
 $p = 0.097$, $\beta = -0.144$, $N = 325$

VVPDCNNYR pc2

rs73218763
 $p = 0.11$, $\beta = -0.143$, $N = 313$

HWLVTDIK pc2

rs73218763
 $p = 0.14$, $\beta = -0.132$, $N = 307$

Locus: 149 (Sort: 174)

Status: Not replicated

80% power: No

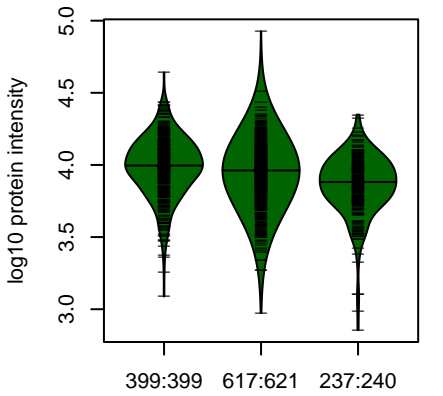
SNP: 8:22785047:C:T

rsID: rs73218763

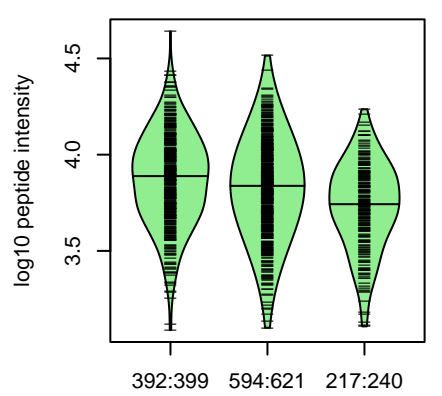
UniProtID: Q96S96

HGNC gene: PEBP4

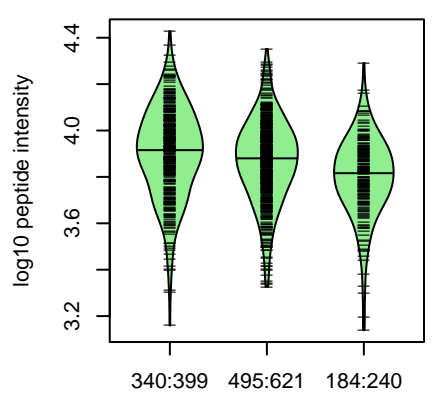
Type: Cis-pQTL

SERPINA11 [cis]

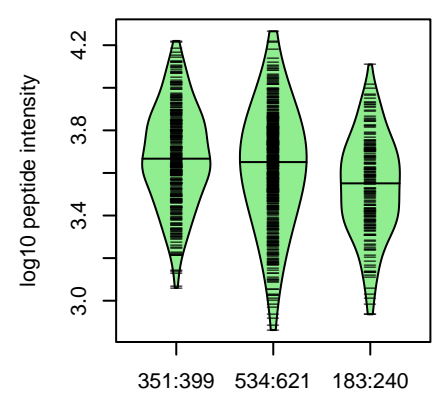
14:94928189:G:T_T
 $p = 6.2e-14$, $\beta = -0.298$, $N = 1253$

ITPTITNFALR pc2

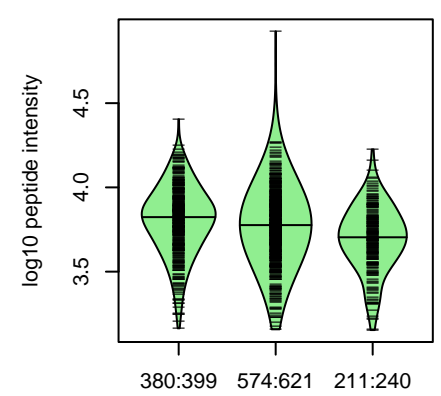
14:94928189:G:T_T
 $p = 7.2e-12$, $\beta = -0.28$, $N = 1203$

AMVDMSEK pc2

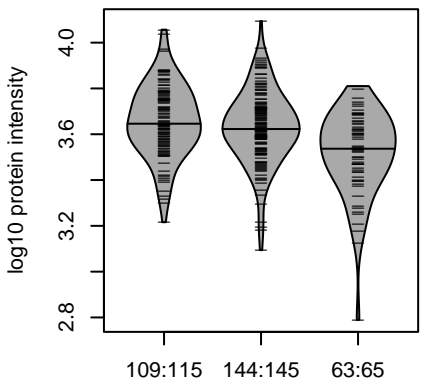
14:94928189:G:T_T
 $p = 1.2e-10$, $\beta = -0.284$, $N = 1019$

GNALALLVLPDPGK pc2

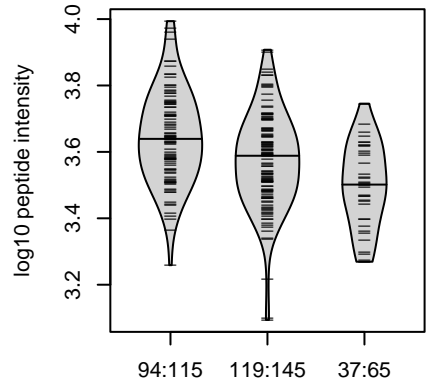
14:94928189:G:T_T
 $p = 1.5e-10$, $\beta = -0.28$, $N = 1068$

VGNSLFLDK pc2

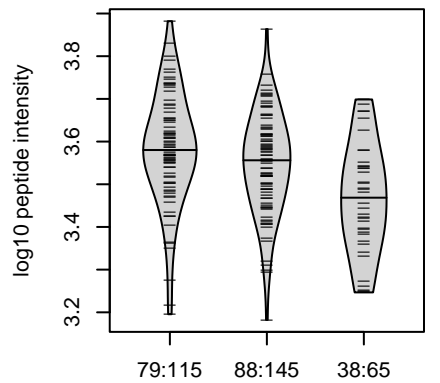
14:94928189:G:T_T
 $p = 7e-10$, $\beta = -0.256$, $N = 1165$

Q86U17 NP3

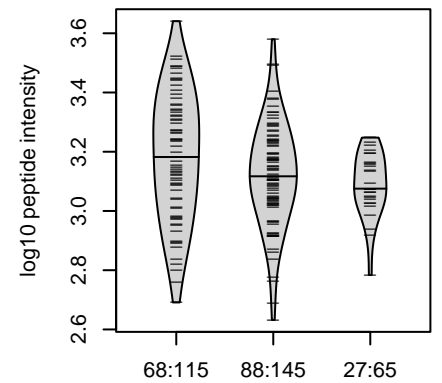
rs11160181
 $p = 4e-07$, $\beta = -0.38$, $N = 316$

VGNSLFLDK pc2

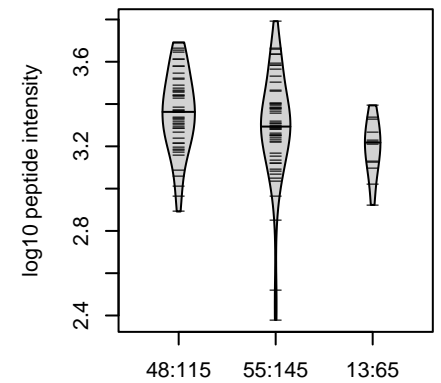
rs11160181
 $p = 6.4e-09$, $\beta = -0.51$, $N = 250$

HQLSEPAPAYHR pc3

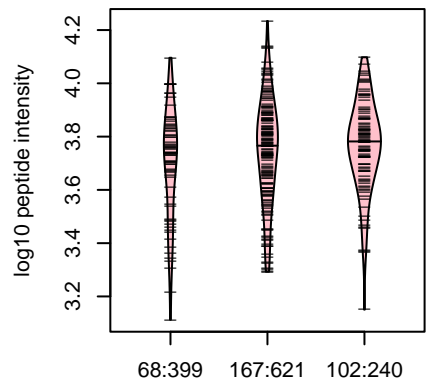
rs11160181
 $p = 1.3e-05$, $\beta = -0.402$, $N = 205$

QVEAALQPQTLR pc2

rs11160181
 $p = 0.0051$, $\beta = -0.294$, $N = 183$

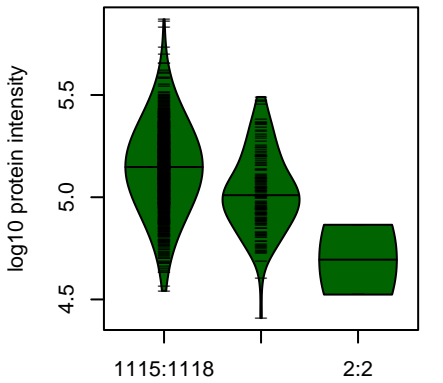
GNALALLVLPDPGK pc2

rs11160181
 $p = 0.014$, $\beta = -0.334$, $N = 116$

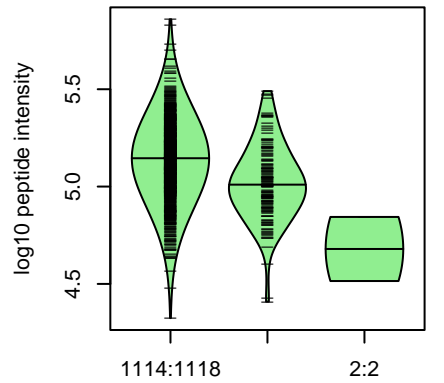
**QESFFVDER pc2
rs1885137 REF**

14:94928189:G:T_T
 $p = 3.6e-09$, $\text{model} = \text{DOM}$, $N = 337$

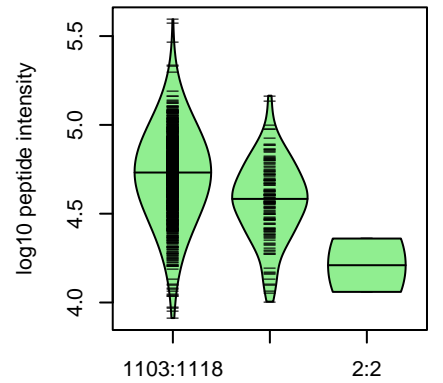
Locus: 150 (Sort: 175)
 Status: Replicated
 80% power: No
 SNP: 14:94928189:G:T
 rsID: rs11160181
 UniProtID: Q86U17
 HGNC gene: SERPINA11
 Type: Cis-pQTL

ORM2 [cis]

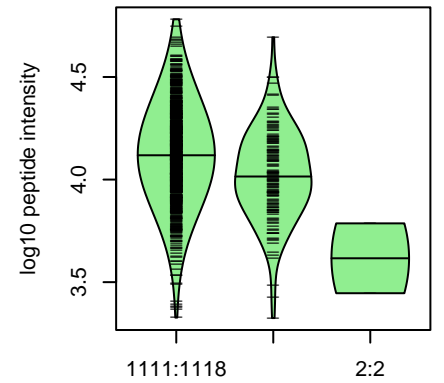
9:117083803:C:A_A
 $p = 7.1e-14$, $\beta = -0.645$, $N = 1256$

TLMFGSYLDDEK pc2

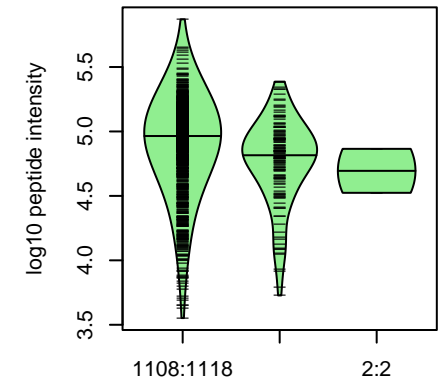
9:117083803:C:A_A
 $p = 1.9e-13$, $\beta = -0.634$, $N = 1255$

NWGLSFYADKPETTK pc3

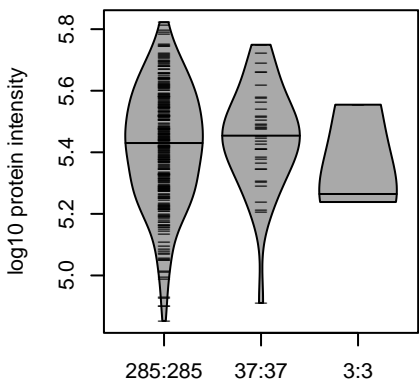
9:117083803:C:A_A
 $p = 2.4e-13$, $\beta = -0.637$, $N = 1241$

EQLGEFYEALDCLCIPR pc3

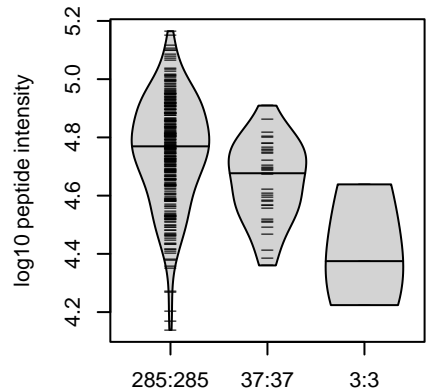
9:117083803:C:A_A
 $p = 3.1e-08$, $\beta = -0.481$, $N = 1251$

SDVMYTDWK pc2

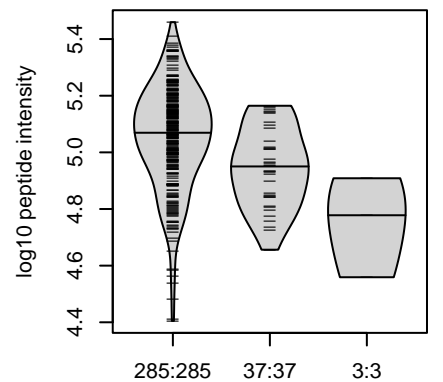
9:117083803:C:A_A
 $p = 1.2e-06$, $\beta = -0.426$, $N = 1245$

P19652 NP2

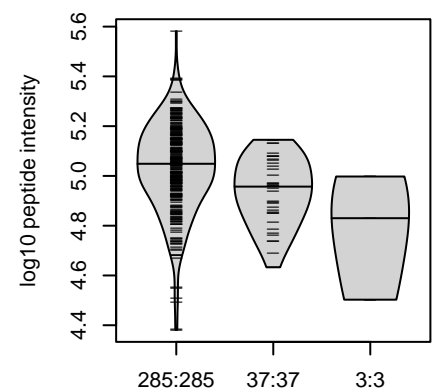
rs150611042
 $p = 0.41$, $\beta = -0.125$, $N = 325$

NWGLSFYADKPETTK pc3

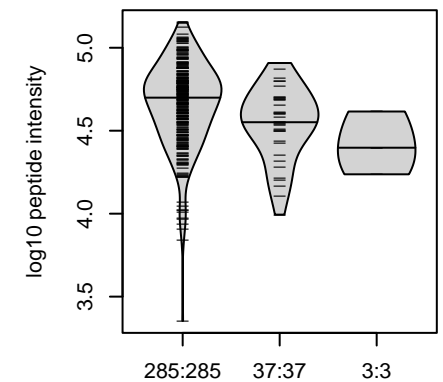
rs150611042
 $p = 2.1e-07$, $\beta = -0.764$, $N = 325$

TLMFGSYLDDEK pc2

rs150611042
 $p = 3.1e-07$, $\beta = -0.753$, $N = 325$

SDVMYTDWK pc2

rs150611042
 $p = 8.2e-07$, $\beta = -0.727$, $N = 325$

EHVAHLLFLR pc3

rs150611042
 $p = 1e-04$, $\beta = -0.576$, $N = 325$

Locus: 151 (Sort: 176)

Status: Not replicated

80% power: No

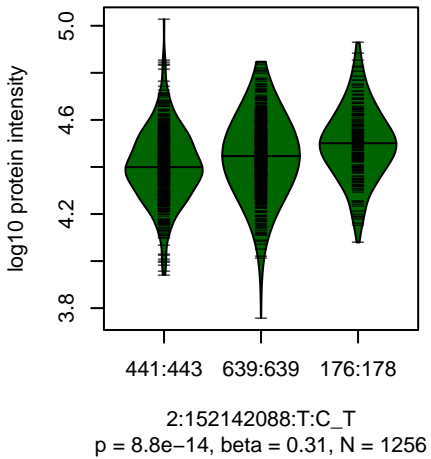
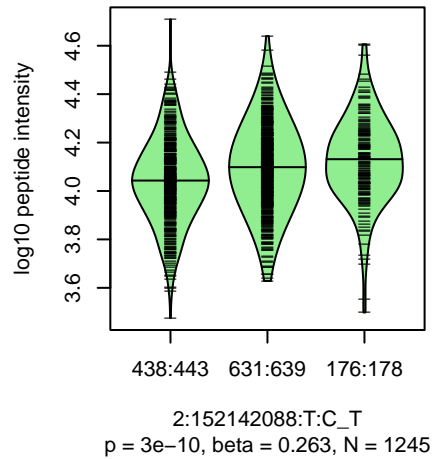
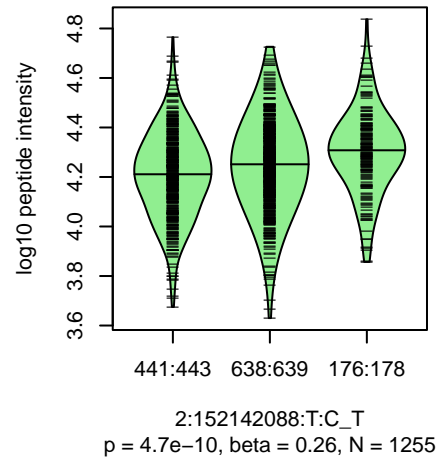
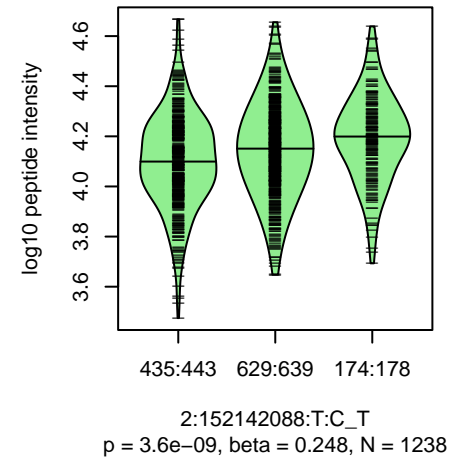
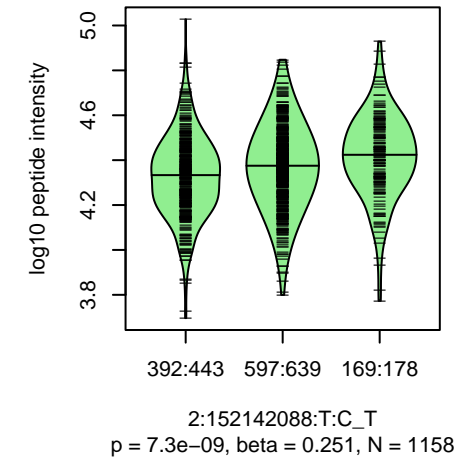
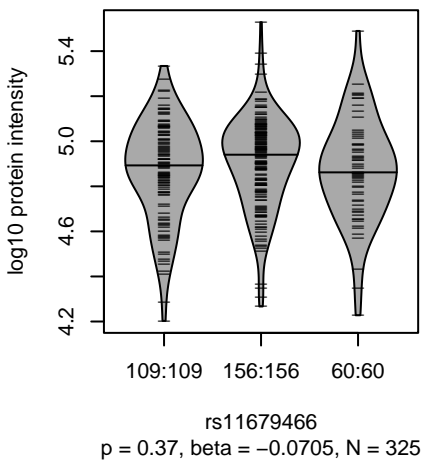
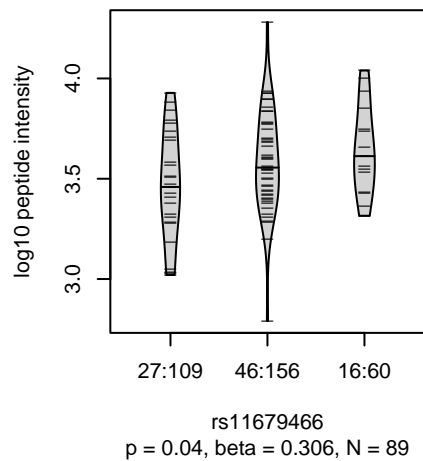
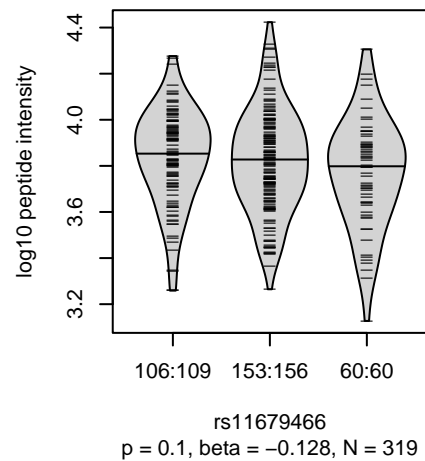
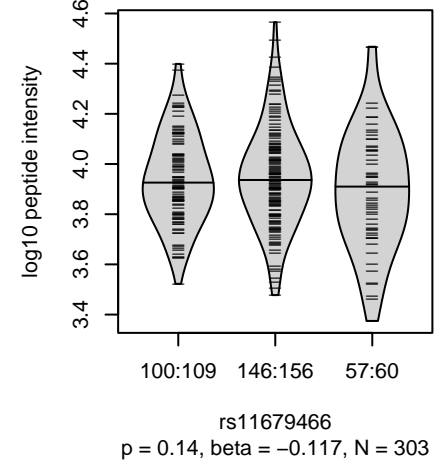
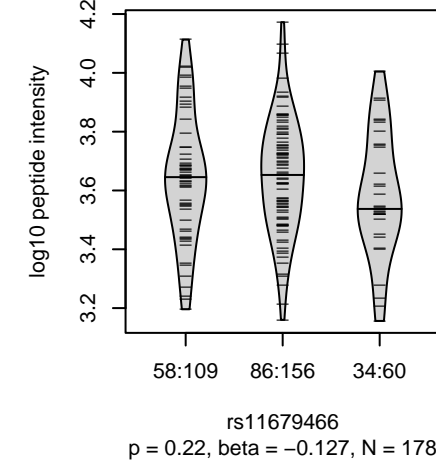
SNP: 9:117083803:C:A

rsID: rs150611042

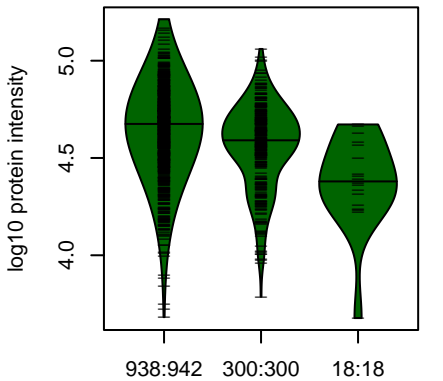
UniProtID: P19652

HGNC gene: ORM2

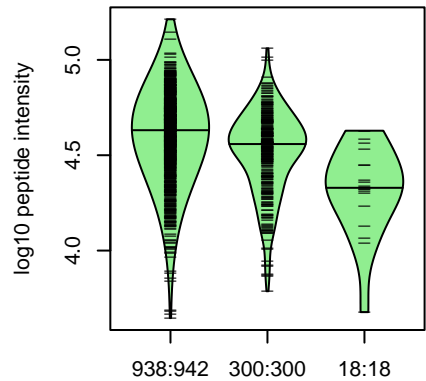
Type: Cis-pQTL

TNFAIP6 [cis]**AVCEFEGGHLATYK pc3****FLSDASVTAGGFQIK pc2****DGIFHNSIWLER pc3****TGIIDYGIR pc2****P98066 NP5****YEGGREHVAHLLFLR pc4****NWGLSFYADKPETTK pc2****EQLGEFYEALDCLCIPR pc3****WFIASAFR pc2**

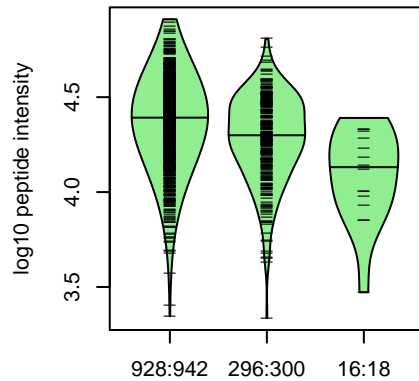
Locus: 152 (Sort: 177)
 Status: Not replicated
 80% power: No
 SNP: 2:152142088:T:C
 rsID: rs11679466
 UniProtID: P98066
 HGNC gene: TNFAIP6
 Type: Cis-pQTL

TCN2 [cis]

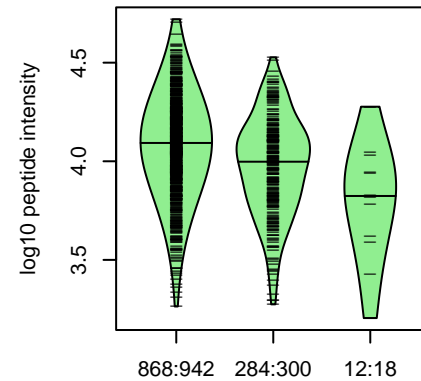
22:31022590:C:T_T
 $p = 9.5e-14$, $\beta = -0.437$, $N = 1256$

TYIDLIFPDCLAPR pc2

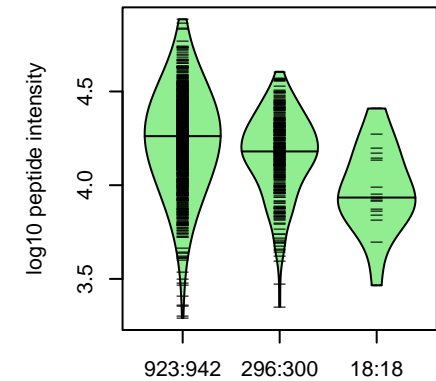
22:31022590:C:T_T
 $p = 2.3e-14$, $\beta = -0.447$, $N = 1256$

LSSLQAGTK pc2

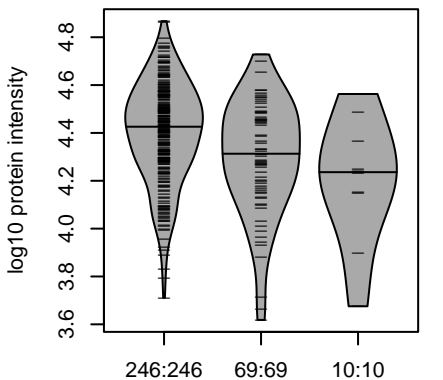
22:31022590:C:T_T
 $p = 1.6e-13$, $\beta = -0.44$, $N = 1240$

.YAVEPFHQGHHSVDTAAMAGLAFTCL

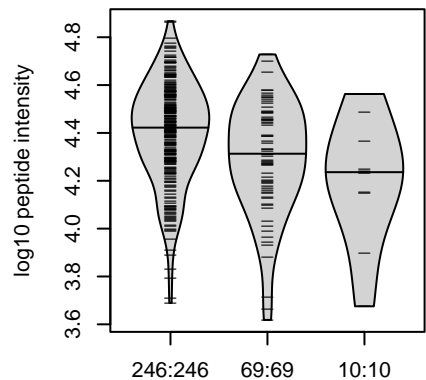
22:31022590:C:T_T
 $p = 1.3e-12$, $\beta = -0.441$, $N = 1164$

TVREEILK pc2

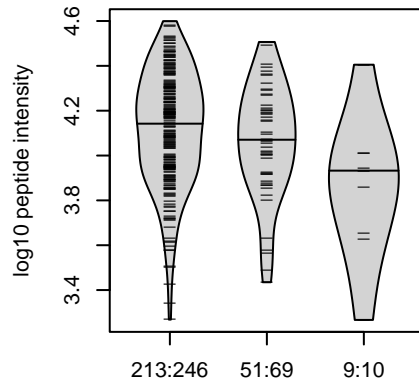
22:31022590:C:T_T
 $p = 2.9e-11$, $\beta = -0.393$, $N = 1237$

F8WE86 NP1

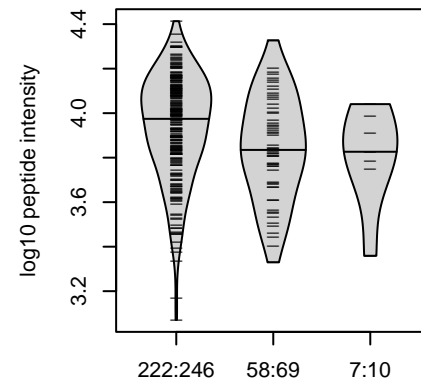
rs12169610
 $p = 2.3e-05$, $\beta = -0.446$, $N = 325$

TYIDLIFPDCLAPR pc2

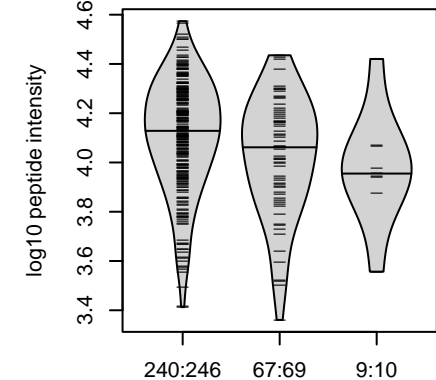
rs12169610
 $p = 3e-05$, $\beta = -0.442$, $N = 325$

EDLYLHSLK pc2

rs12169610
 $p = 0.002$, $\beta = -0.363$, $N = 273$

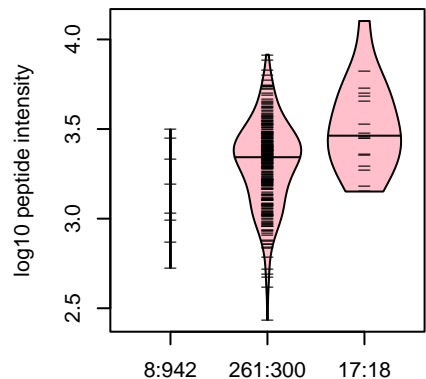
.YAVEPFHQGHHSVDTAAMAGLAFTCL

rs12169610
 $p = 0.0035$, $\beta = -0.347$, $N = 287$

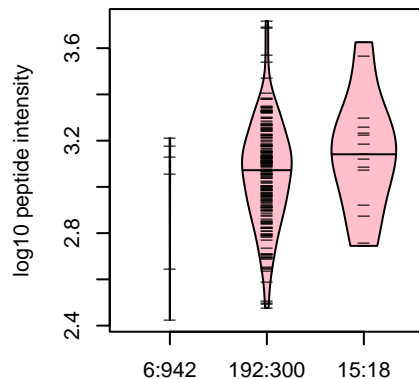
WFLEDEK pc2

rs12169610
 $p = 0.0043$, $\beta = -0.313$, $N = 316$

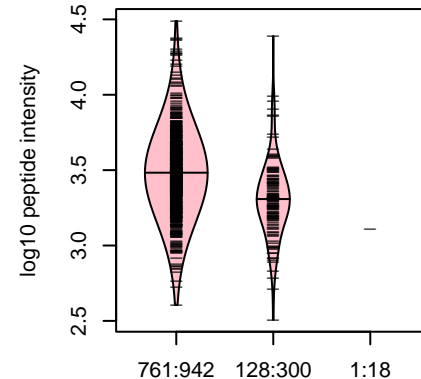
Locus: 153 (Sort: 178)
 Status: Replicated
 80% power: No
 SNP: 22:31022590:C:T
 rsID: rs12169610
 UniProtID: F8WE86
 HGNC gene: TCN2
 Type: Cis-pQTL

**QSIFVLGASTVEDVLK pc2
rs9621049 ALT**

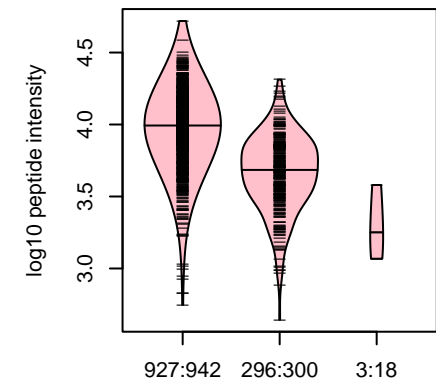
22:31022590:C:T_T
 $p = 5.4e-222$, model = REC, $N = 286$

**QSIFVLGASTVEDVLKK pc3
rs9621049 ALT**

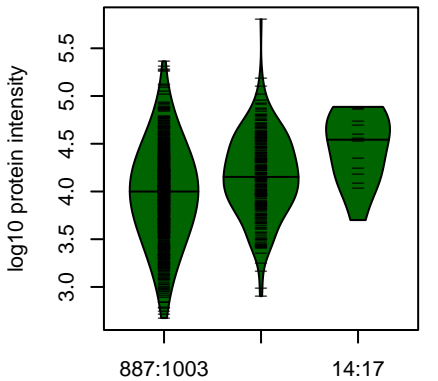
22:31022590:C:T_T
 $p = 7.5e-145$, model = REC, $N = 213$

**QSI SVLAGSTVEDVLKK pc3
rs9621049 REF**

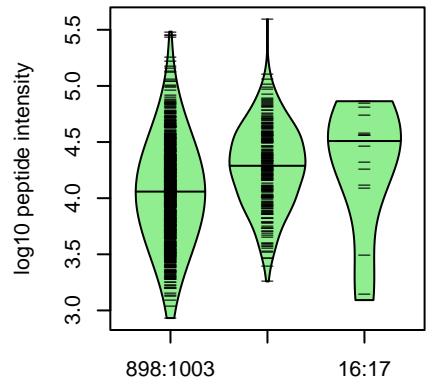
22:31022590:C:T_T
 $p = 1.4e-39$, model = REC, $N = 890$

**QSI SVLAGSTVEDVLK pc2
rs9621049 REF**

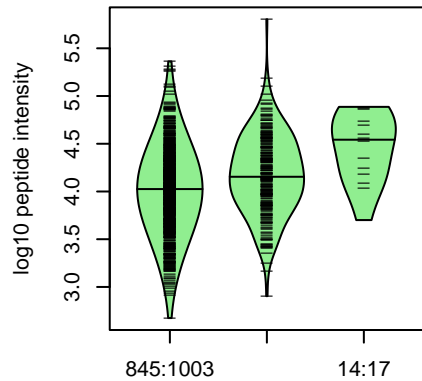
22:31022590:C:T_T
 $p = 6.4e-23$, model = DOM, $N = 1226$

PRB1 [cis]

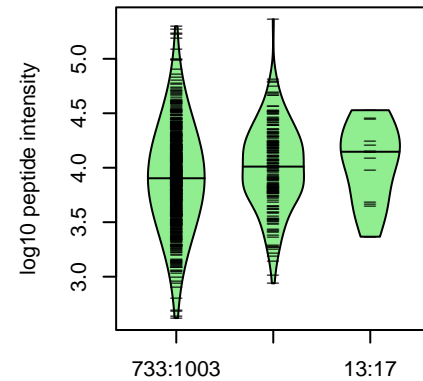
12:11510612:C:T_T
 $p = 9.6e-14$, $\beta = 0.485$, $N = 1133$

PQGPPPQGDK pc2

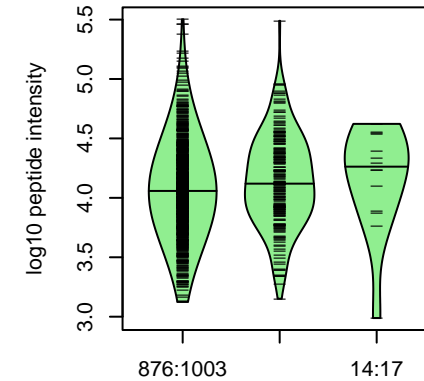
12:11510612:C:T_T
 $p = 5.6e-15$, $\beta = 0.499$, $N = 1149$

PQGPPAQGGSK pc2

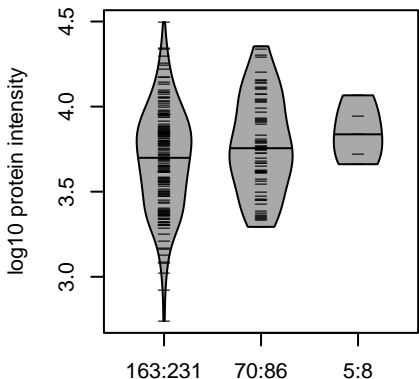
12:11510612:C:T_T
 $p = 8.1e-12$, $\beta = 0.449$, $N = 1089$

PQGPPPQGGNK pc2

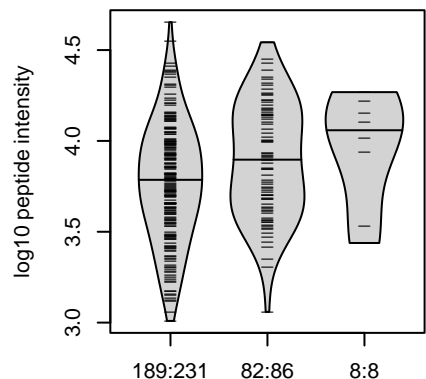
12:11510612:C:T_T
 $p = 0.00092$, $\beta = 0.237$, $N = 936$

PQGPPPPGK pc2

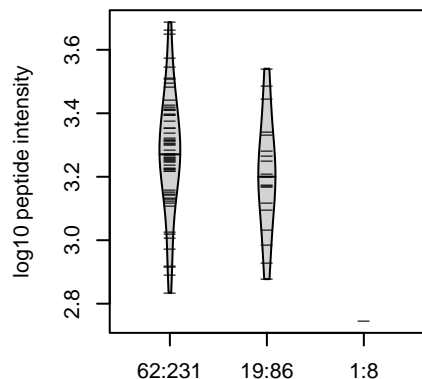
12:11510612:C:T_T
 $p = 0.0014$, $\beta = 0.215$, $N = 1105$

A0A4W8X8U3 NP4

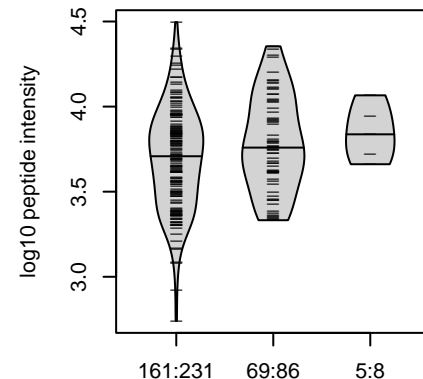
rs3759237
 $p = 0.034$, $\beta = 0.263$, $N = 238$

PQGPPPQGDK pc2

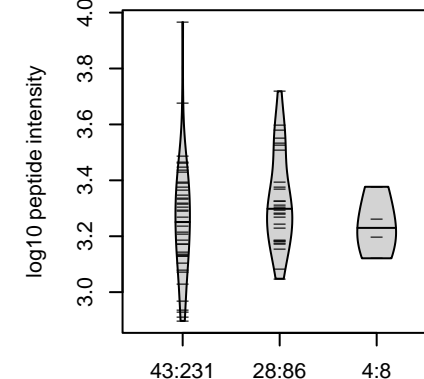
rs3759237
 $p = 0.0031$, $\beta = 0.325$, $N = 279$

PQGPPPQGGK pc2

rs3759237
 $p = 0.012$, $\beta = -0.571$, $N = 82$

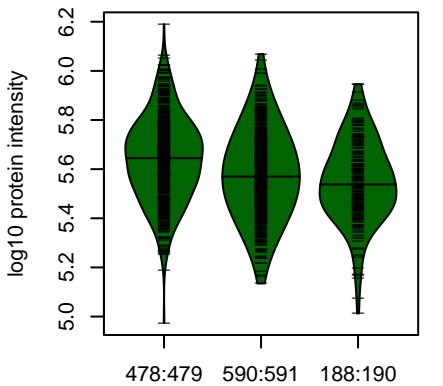
PQGPPAQGGSK pc2

rs3759237
 $p = 0.024$, $\beta = 0.279$, $N = 235$

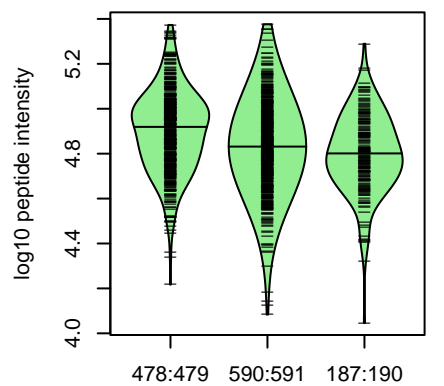
PQGPPPPGK pc2

rs3759237
 $p = 0.17$, $\beta = 0.254$, $N = 75$

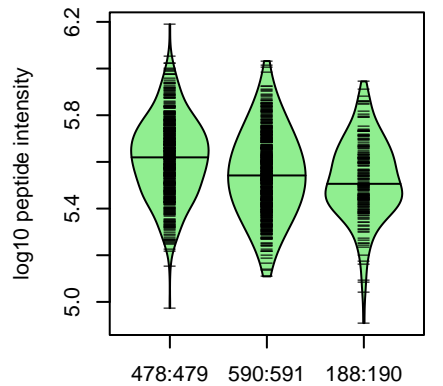
Locus: 154 (Sort: 179)
 Status: Not replicated
 80% power: No
 SNP: 12:11510612:C:T
 rsID: rs3759237
 UniProtID: A0A4W8X8U3
 HGNC gene: PRB1
 Type: Cis-pQTL

HSP90B1 [cis]

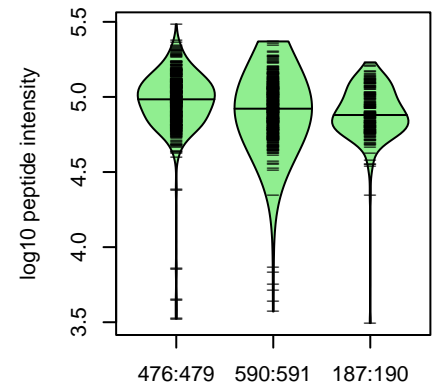
12:104147207:A:G_A
 $p = 1.1e-13$, $\beta = -0.299$, $N = 1256$

VFITDDFHDMPK pc3

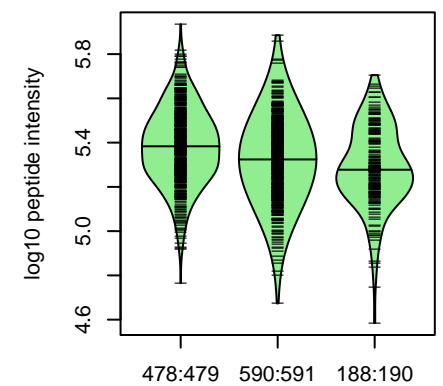
12:104147207:A:G_A
 $p = 4.2e-14$, $\beta = -0.304$, $N = 1255$

SILFVPTSAPR pc2

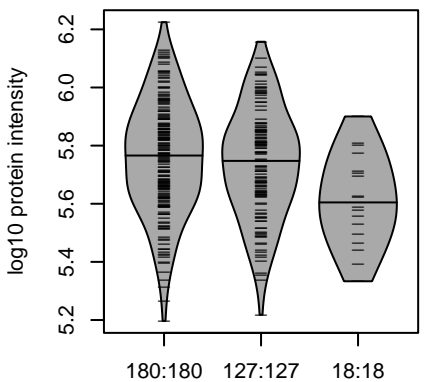
12:104147207:A:G_A
 $p = 8.2e-14$, $\beta = -0.301$, $N = 1256$

EVEEDEYK pc2

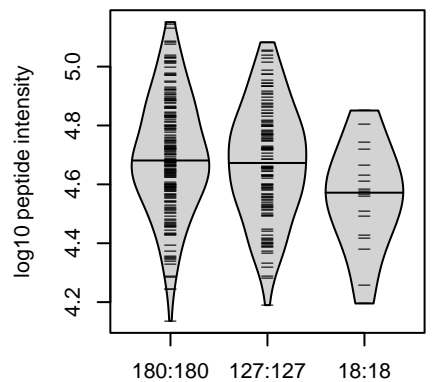
12:104147207:A:G_A
 $p = 2.1e-13$, $\beta = -0.296$, $N = 1253$

GLFDEYGSK pc2

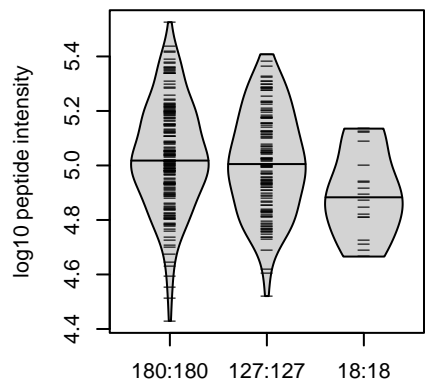
12:104147207:A:G_A
 $p = 4.2e-13$, $\beta = -0.292$, $N = 1256$

P14625 NP2

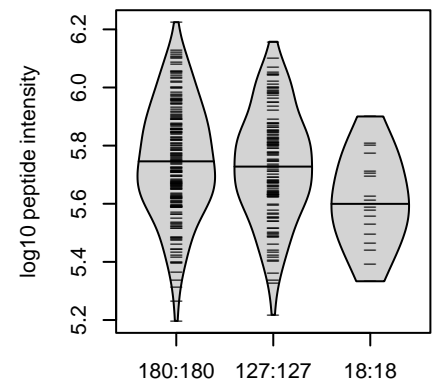
rs3751198
 $p = 0.0017$, $\beta = -0.286$, $N = 325$

RVFITDDFHDMPK pc3

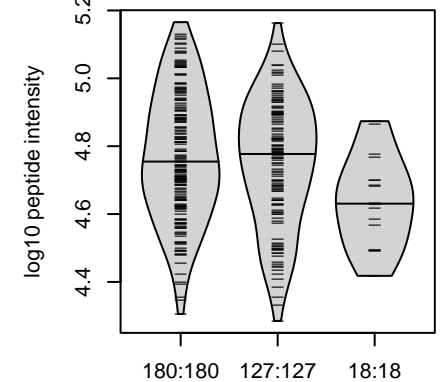
rs3751198
 $p = 0.0027$, $\beta = -0.272$, $N = 325$

DISTNYYASQK pc2

rs3751198
 $p = 0.0028$, $\beta = -0.271$, $N = 325$

SILFVPTSAPR pc2

rs3751198
 $p = 0.003$, $\beta = -0.269$, $N = 325$

SGTSEFLNK pc2

rs3751198
 $p = 0.0031$, $\beta = -0.268$, $N = 325$

Locus: 155 (Sort: 180)

Status: Not replicated

80% power: No

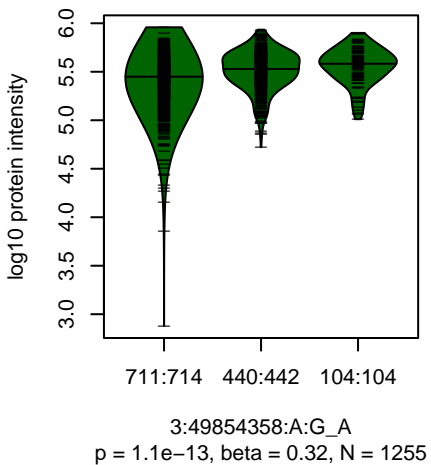
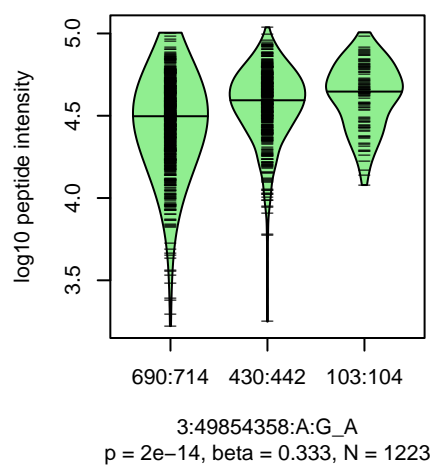
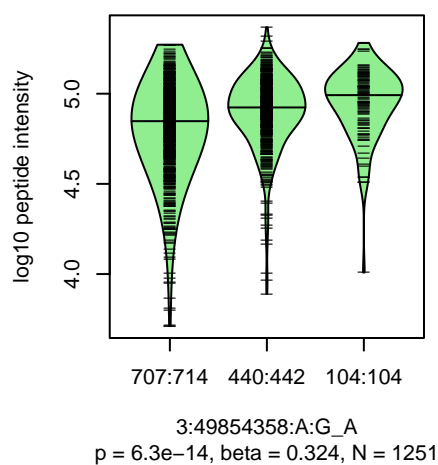
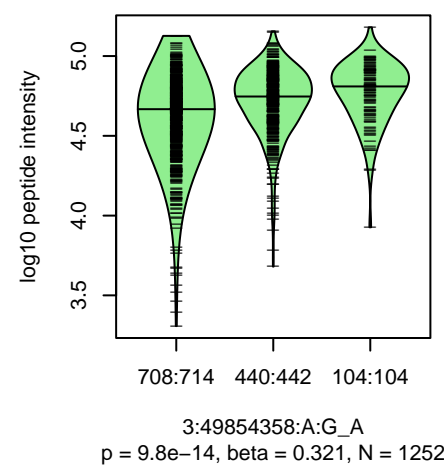
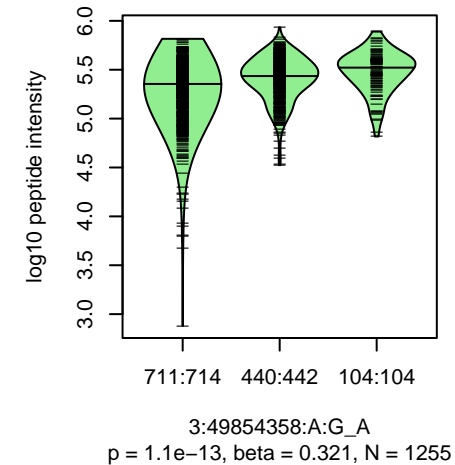
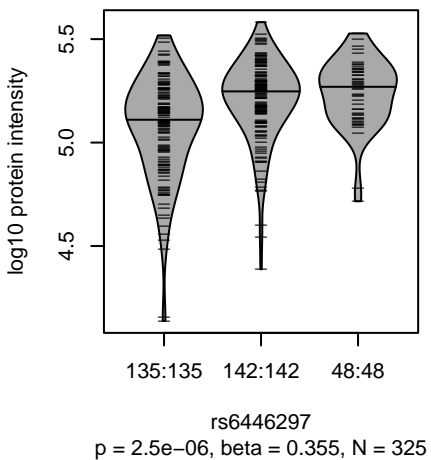
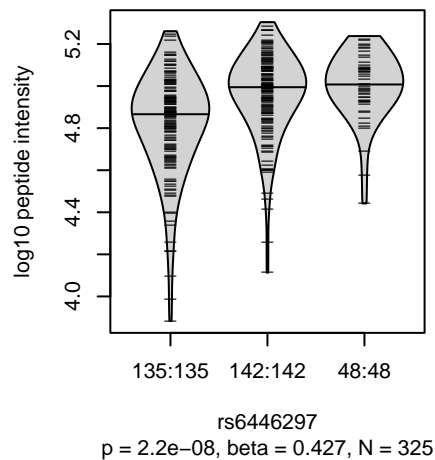
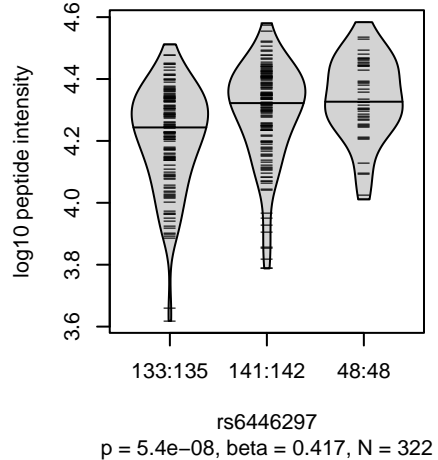
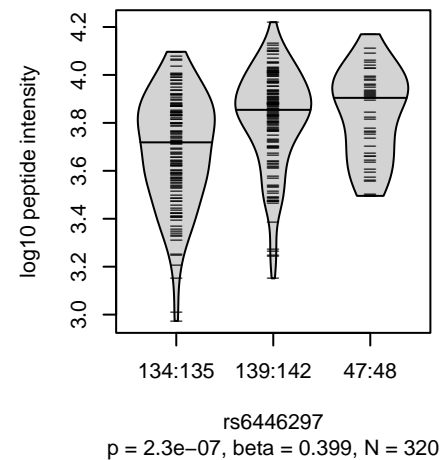
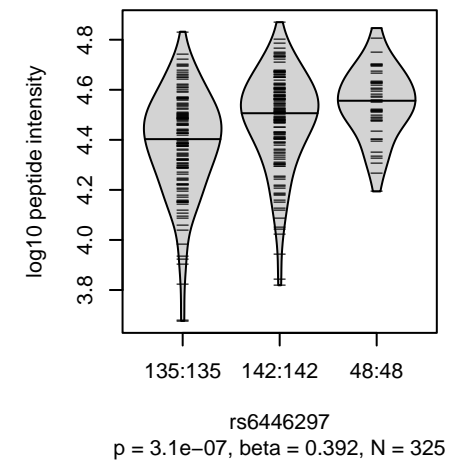
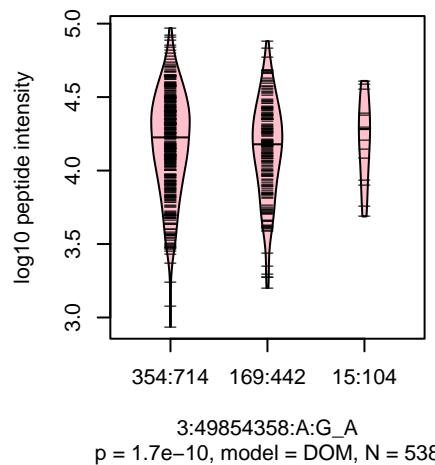
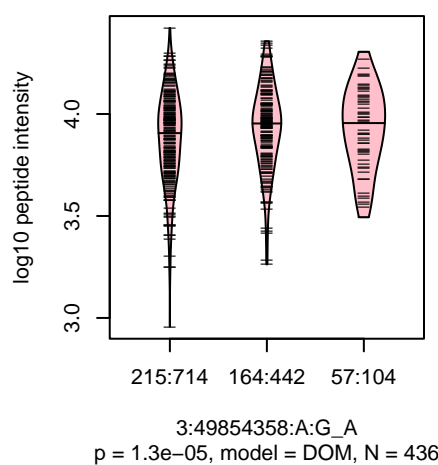
SNP: 12:104147207:A:G

rsID: rs3751198

UniProtID: P14625

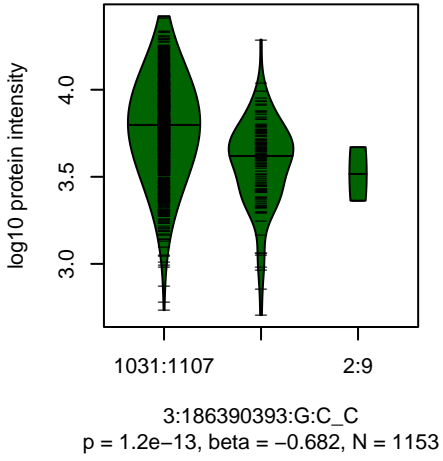
HGNC gene: HSP90B1

Type: Cis-pQTL

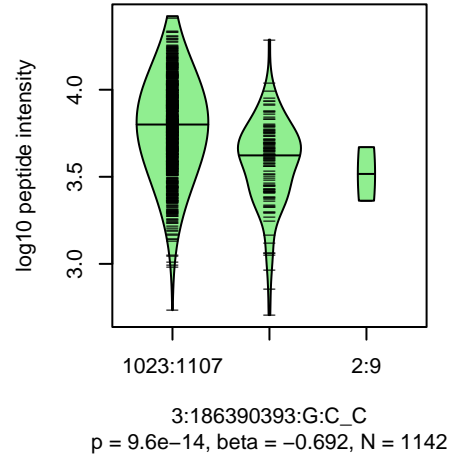
MST1 [cis]**WDLQHPHQHPFEPGK pc4****QEATTVSCFR pc2****CGPLMDCR pc2****MVCGPSGSQVLVLLK pc2****G3XAK1 NP3****CEIAGWGETK pc3****WDAQIPHQHR pc3****NPDGSEAPWCFTLRPGMR pc3****TCIMNNGVGYR pc2****SCWPAVFTR pc2
rs3197999 ALT****WPAVFTR pc2
rs3197999 REF**

Locus: 156 (Sort: 181)
Status: Replicated
80% power: No
SNP: 3:49854358:A:G
rsID: rs6446297
UniProtID: G3XAK1
HGNC gene: MST1
Type: Cis-pQTL

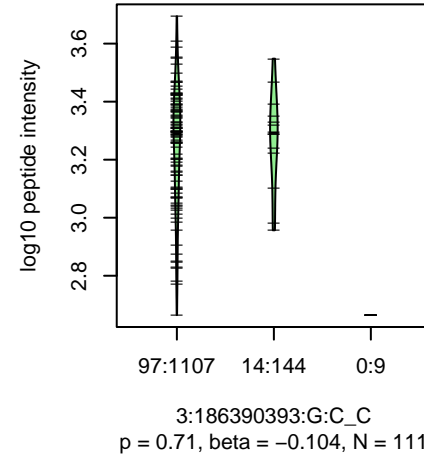
ZNF618 [trans]



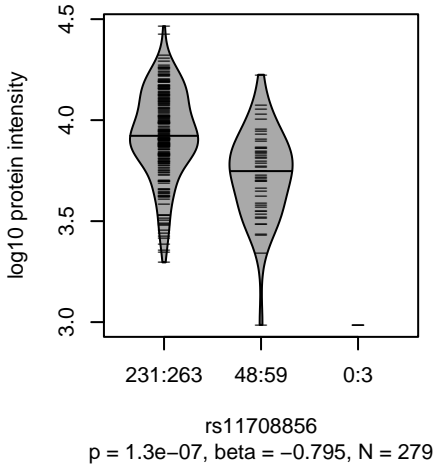
RLLSPEDMNK pc2



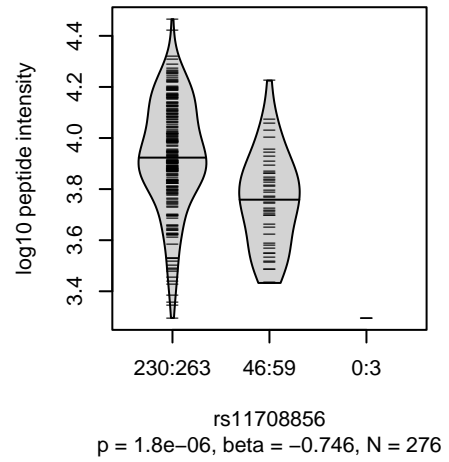
ADPFDQGVVATDEVK pc2



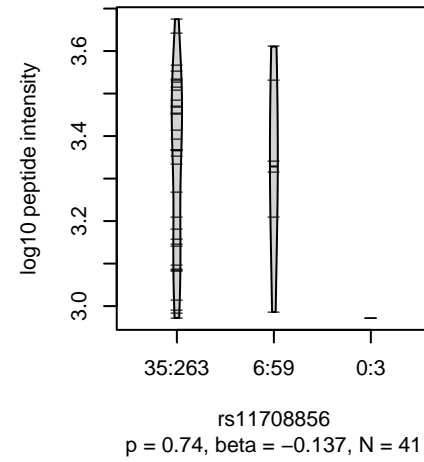
Q5T7W0 NP1



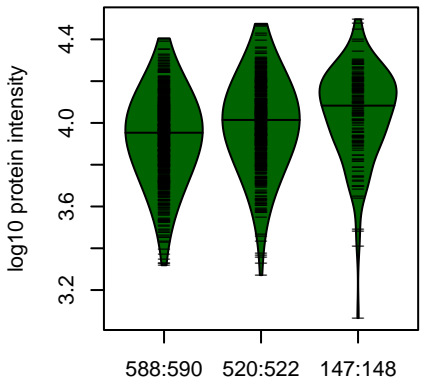
RLLSPEDMNK pc2



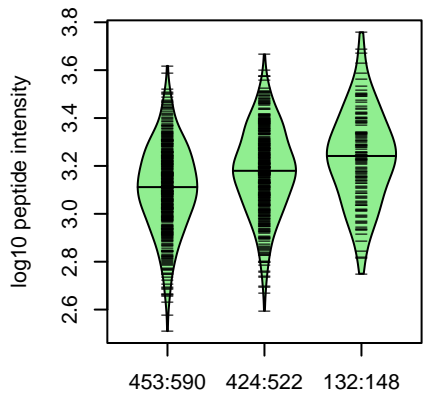
ADPFDQGVVATDEVK pc2



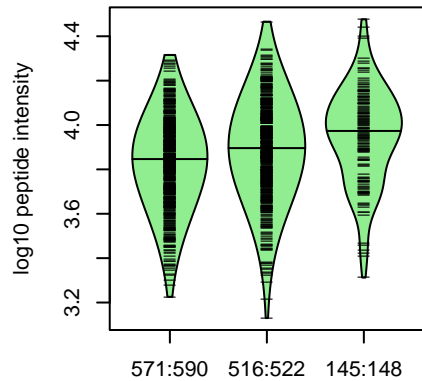
Locus: 157 (Sort: 182)
Status: Replicated
80% power: No
SNP: 3:186390393:G:C
rsID: rs11708856
UniProtID: Q5T7W0
HGNC gene: ZNF618
Type: Trans-pQTL

SSC5D [cis]

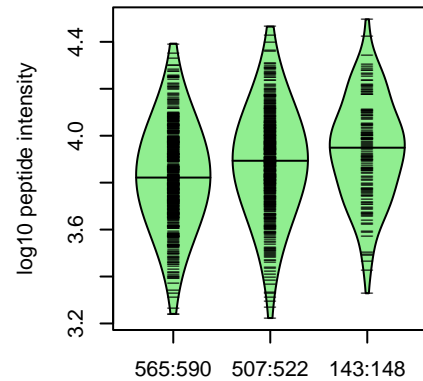
19:55999142:C:G_G
 $p = 1.2e-13$, $\beta = 0.304$, $N = 1255$

SNCDHSEDAGLVCTGPAPR pc3

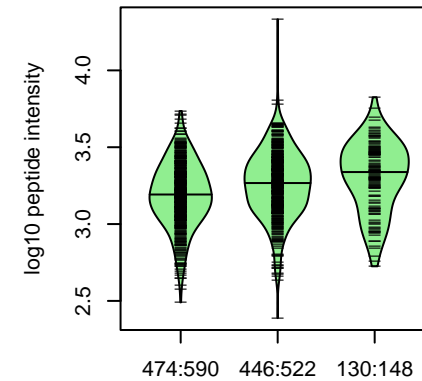
19:55999142:C:G_G
 $p = 1.5e-15$, $\beta = 0.356$, $N = 1009$

LTQVVEQER pc2

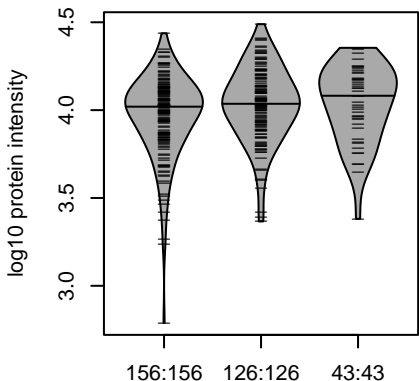
19:55999142:C:G_G
 $p = 5.2e-13$, $\beta = 0.298$, $N = 1232$

ELGCGGALAAPGGAR pc2

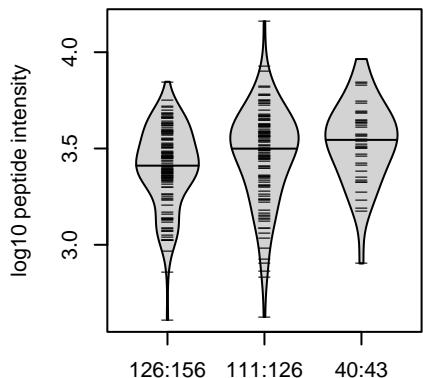
19:55999142:C:G_G
 $p = 8.6e-11$, $\beta = 0.27$, $N = 1215$

GSEASLSDCPGAWGK pc2

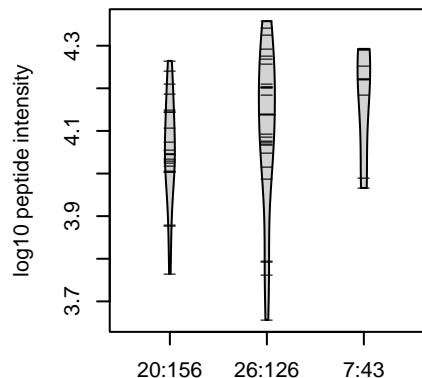
19:55999142:C:G_G
 $p = 1.6e-10$, $\beta = 0.284$, $N = 1050$

A1L4H1 NP2

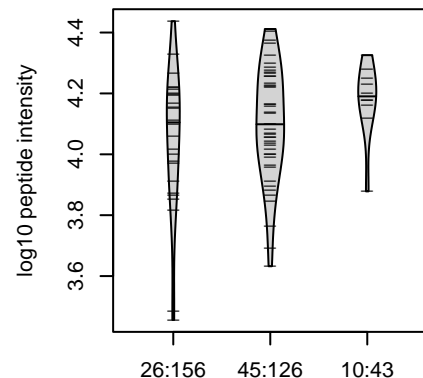
rs8103017
 $p = 0.074$, $\beta = 0.14$, $N = 325$

VMACEPPALVELVAAVR pc3

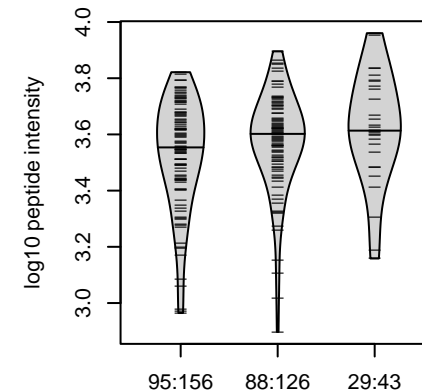
rs8103017
 $p = 0.0067$, $\beta = 0.225$, $N = 277$

GLGQLGEAVK pc2

rs8103017
 $p = 0.024$, $\beta = 0.433$, $N = 53$

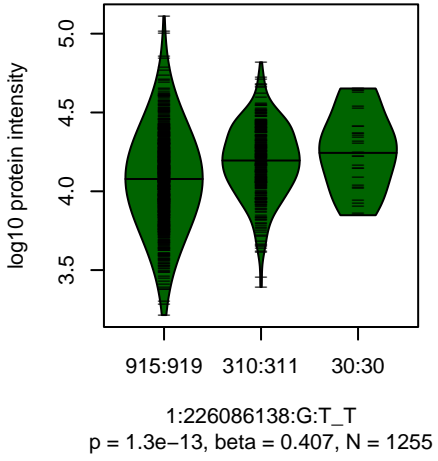
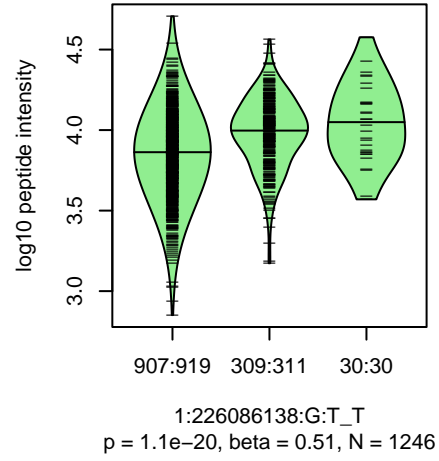
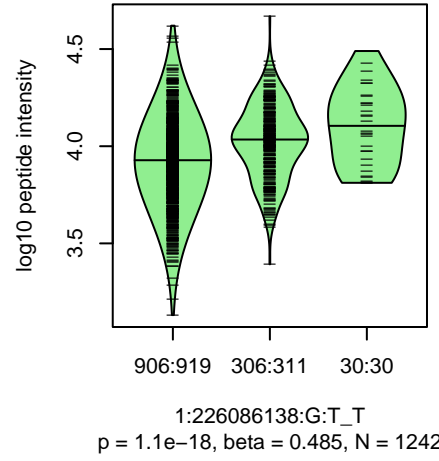
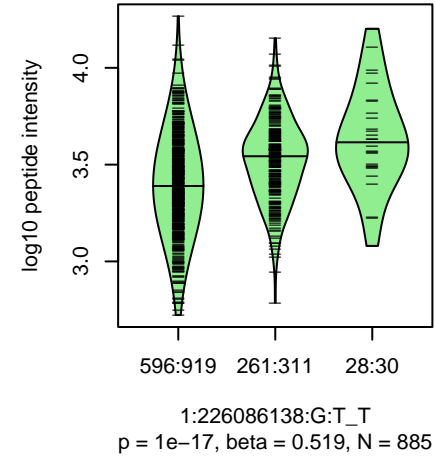
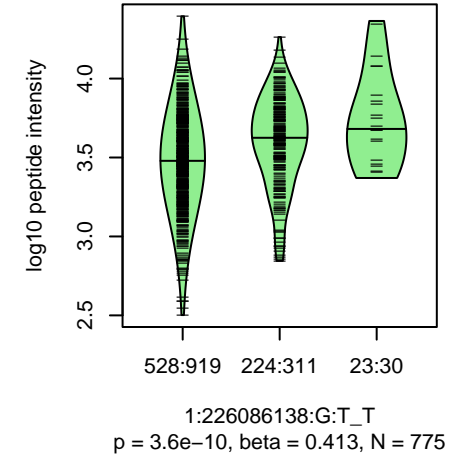
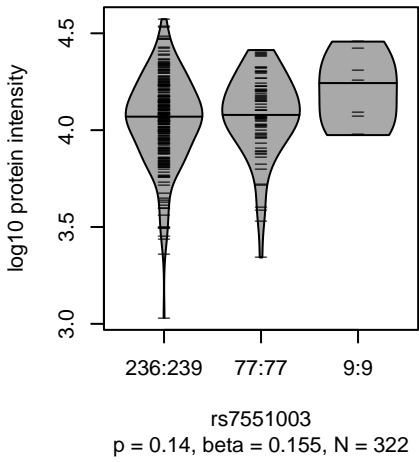
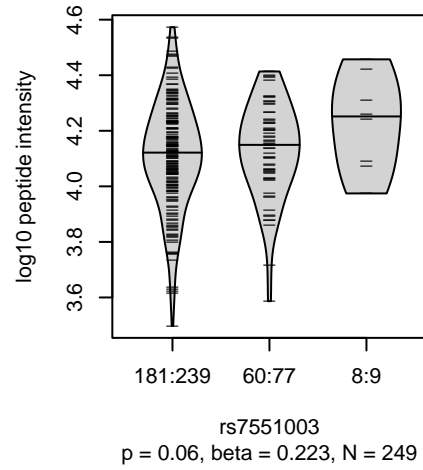
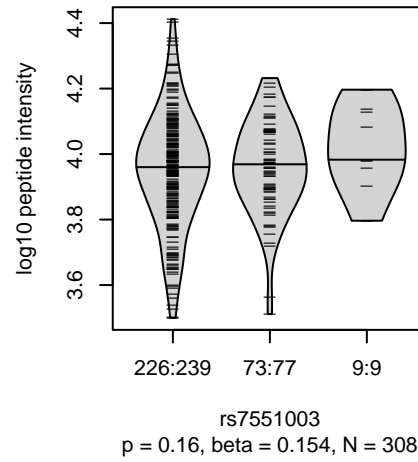
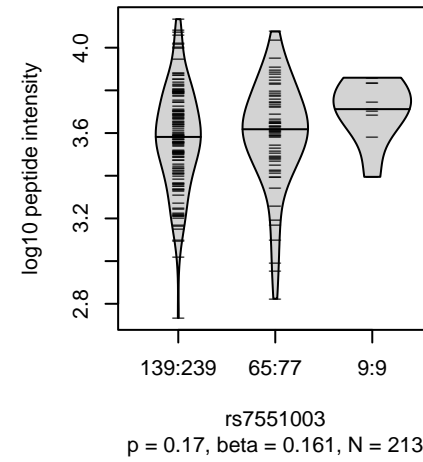
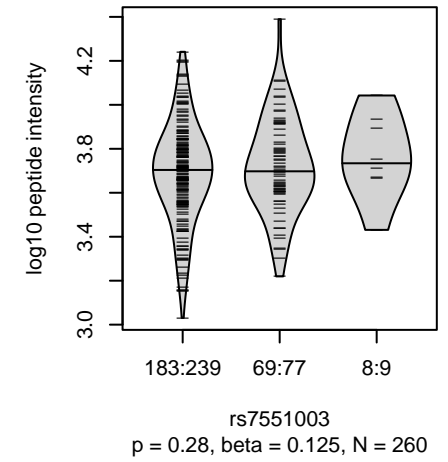
LEVWHGGR pc2

rs8103017
 $p = 0.031$, $\beta = 0.359$, $N = 81$

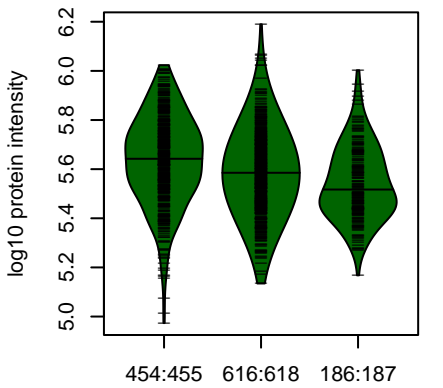
WGTVCDDGWDLR pc2

rs8103017
 $p = 0.049$, $\beta = 0.189$, $N = 212$

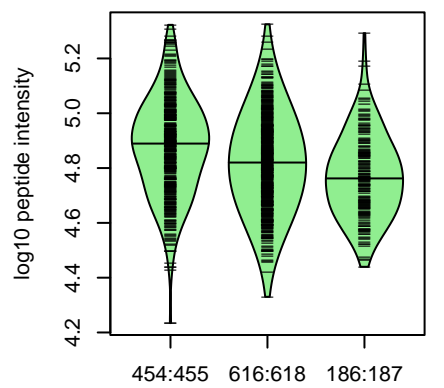
Locus: 158 (Sort: 183)
 Status: Not replicated
 80% power: No
 SNP: 19:55999142:C:G
 rsID: rs8103017
 UniProtID: A1L4H1
 HGNC gene: SSC5D
 Type: Cis-pQTL

LEFTY1 [cis]**QPLLLQSVQR pc2****AFDVTEAVNFWQQLSRPR pc3****EVPTLDRADMEELVIPTHVR pc4****AQYVALLQR pc2****O75610 NP1****VTVEWLR pc2****AFDVTEAVNFWQQLSRPR pc3****AQYVALLQR pc2****QPLLLQSVQR pc2**

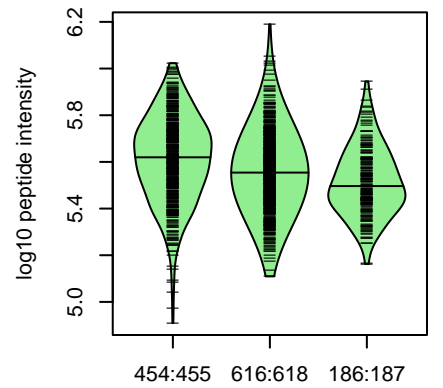
Locus: 159 (Sort: 184)
 Status: Not replicated
 80% power: No
 SNP: 1:226086138:G:T
 rsID: rs7551003
 UniProtID: O75610
 HGNC gene: LEFTY1
 Type: Cis-pQTL

HSP90B1 [cis]

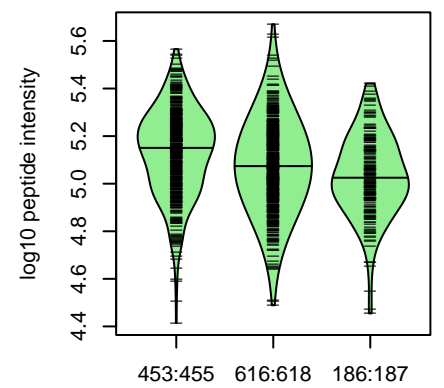
12:104304835:G:T_T
 $p = 1.4e-13$, $\beta = -0.302$, $N = 1256$

DISTNYASQK pc2

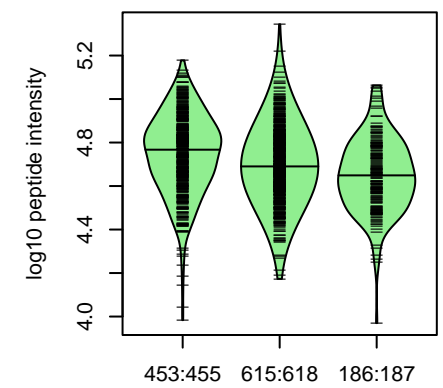
12:104304835:G:T_T
 $p = 7.1e-16$, $\beta = -0.329$, $N = 1256$

SILFVPTSAPR pc2

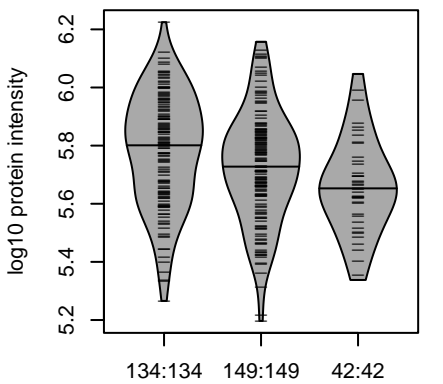
12:104304835:G:T_T
 $p = 1.3e-13$, $\beta = -0.302$, $N = 1256$

YNDTFWK pc2

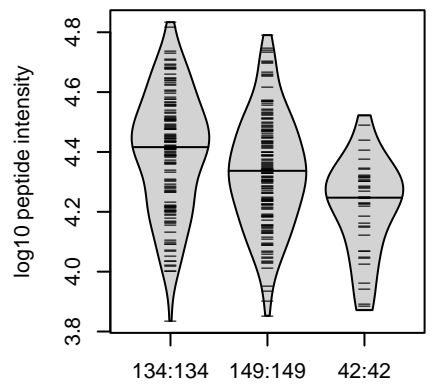
12:104304835:G:T_T
 $p = 1.6e-13$, $\beta = -0.301$, $N = 1255$

RVFITDDFHDMMPK pc3

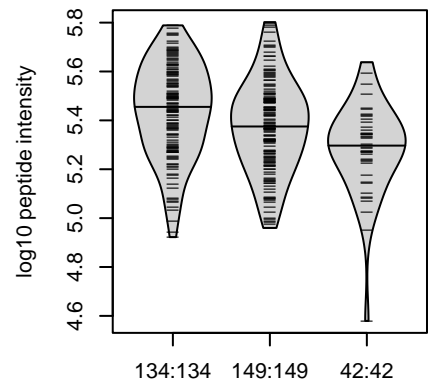
12:104304835:G:T_T
 $p = 3e-13$, $\beta = -0.298$, $N = 1254$

P14625 NP2

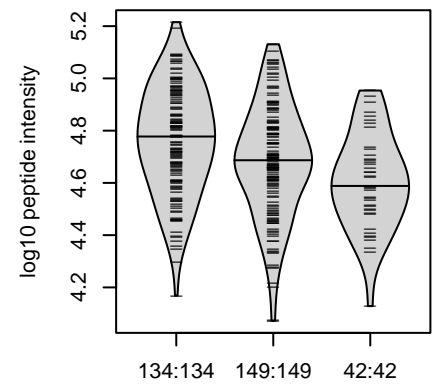
rs2722189
 $p = 0.0019$, $\beta = -0.251$, $N = 325$

AQAYQTGK pc2

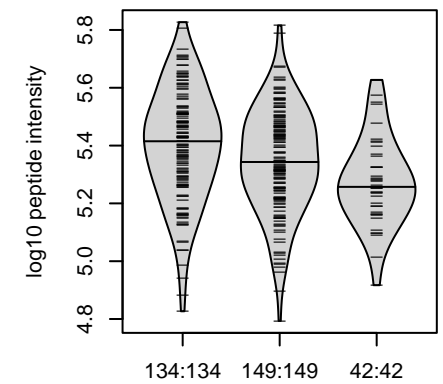
rs2722189
 $p = 9.4e-07$, $\beta = -0.389$, $N = 325$

SGYLLPDTK pc2

rs2722189
 $p = 0.00013$, $\beta = -0.306$, $N = 325$

LGVIEDHSNR pc2

rs2722189
 $p = 0.00015$, $\beta = -0.302$, $N = 325$

TFEINPR pc2

rs2722189
 $p = 0.00017$, $\beta = -0.301$, $N = 325$

Locus: 160 (Sort: 185)

Status: Not replicated

80% power: No

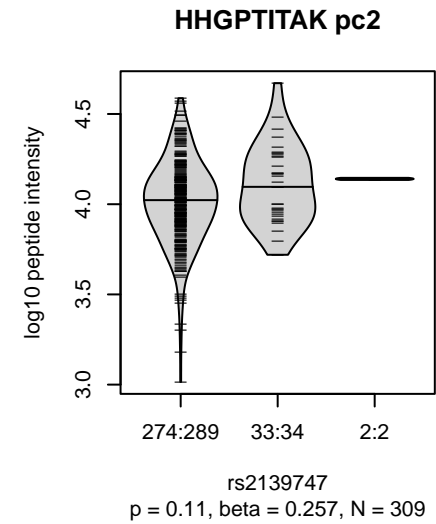
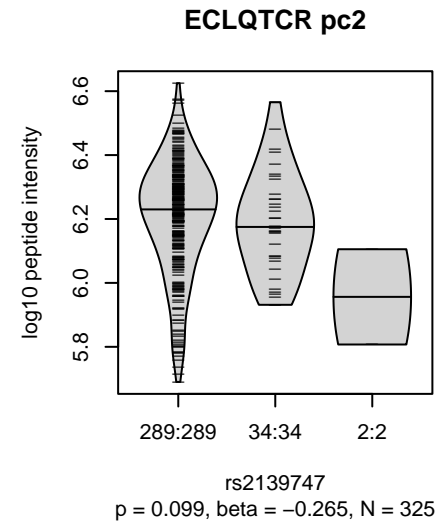
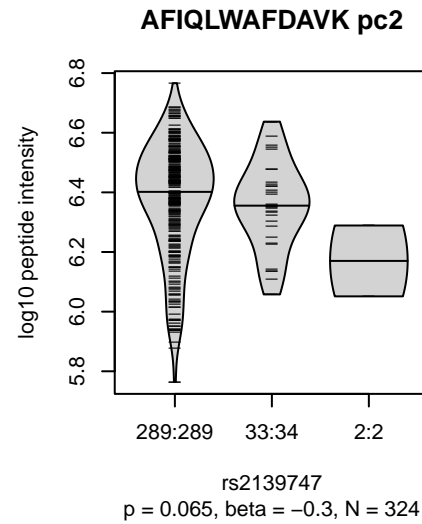
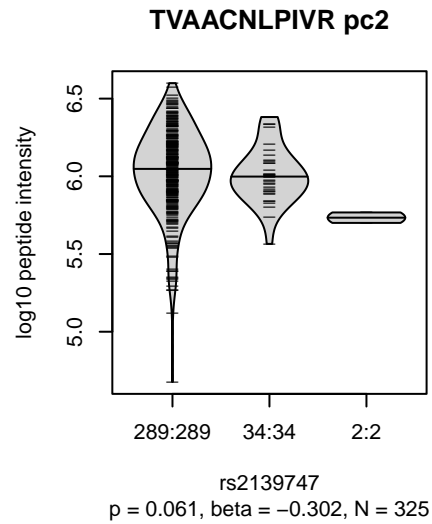
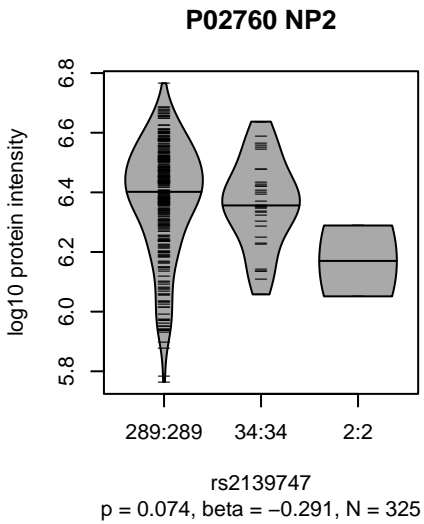
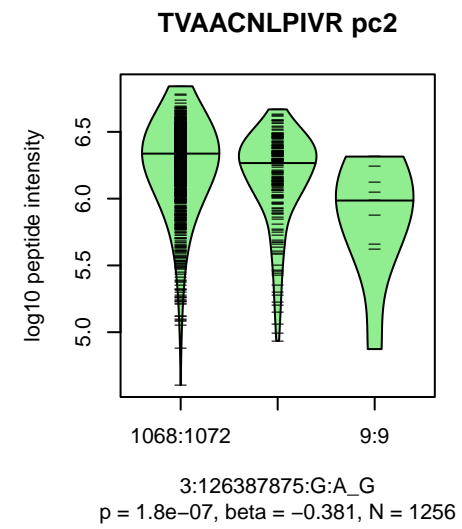
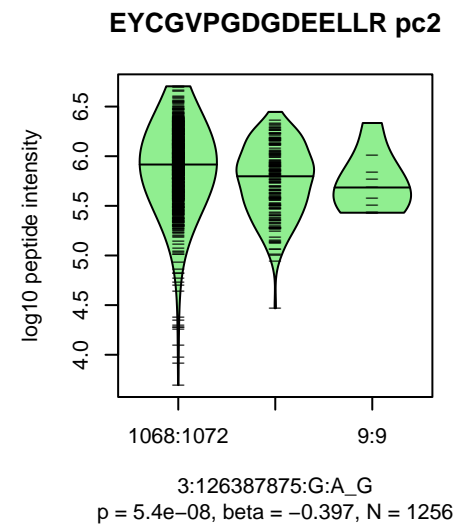
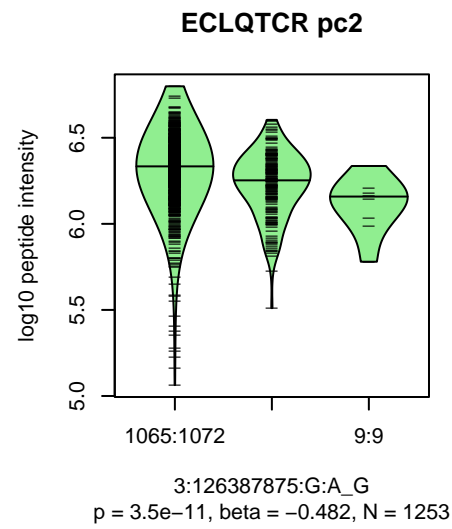
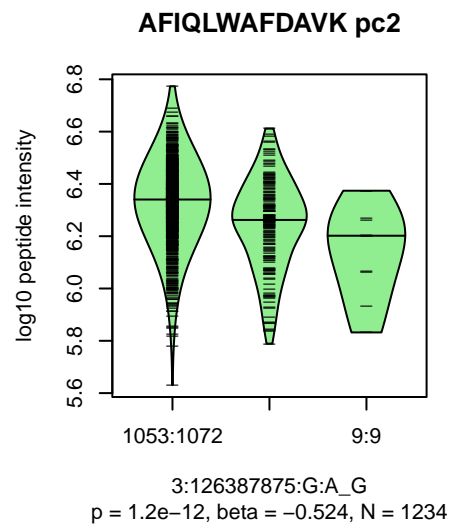
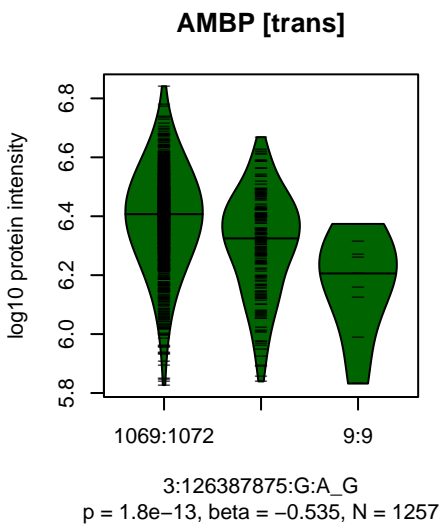
SNP: 12:104304835:G:T

rsID: rs2722189

UniProtID: P14625

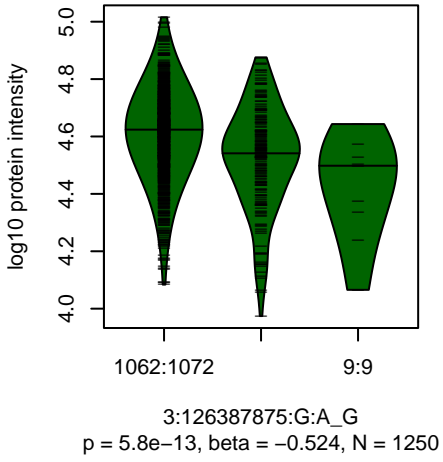
HGNC gene: HSP90B1

Type: Cis-pQTL

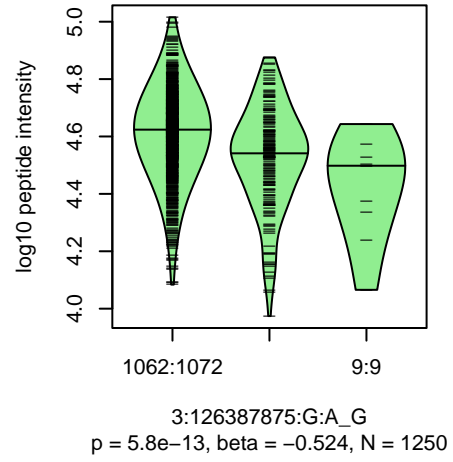


Locus: 161 (Sort: 186)
 Status: Not replicated
 80% power: No
 SNP: 3:126387875:G:A
 rsID: rs2139747
 UniProtID: P02760
 HGNC gene: AMBP
 Type: Trans-pQTL

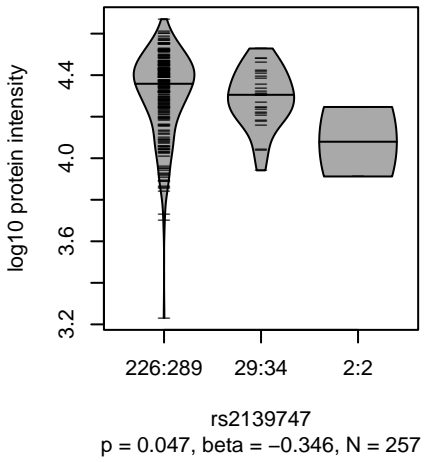
CCDC132 [trans]



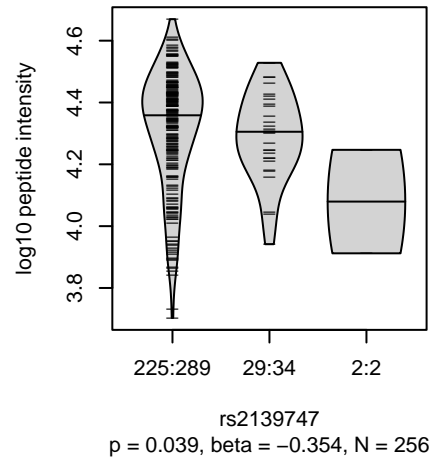
ALWEVMLSYYR pc2



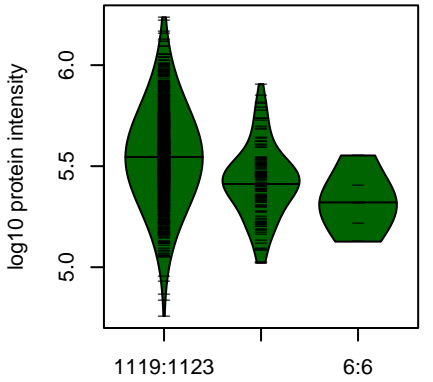
Q96JG6 NP2



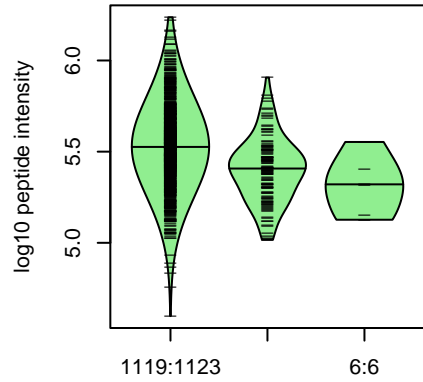
ALWEVMLSYYR pc2



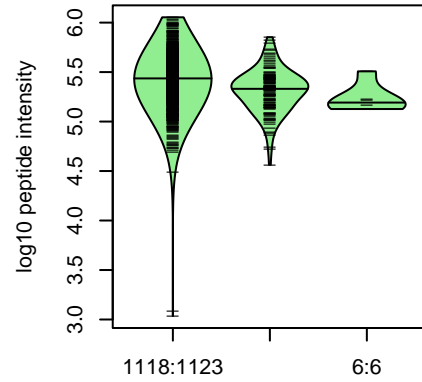
Locus: 161 (Sort: 187)
Status: Not replicated
80% power: No
SNP: 3:126387875:G:A
rsID: rs2139747
UniProtID: Q96JG6
HGNC gene: CCDC132
Type: Trans-pQTL

CCL14 [cis]

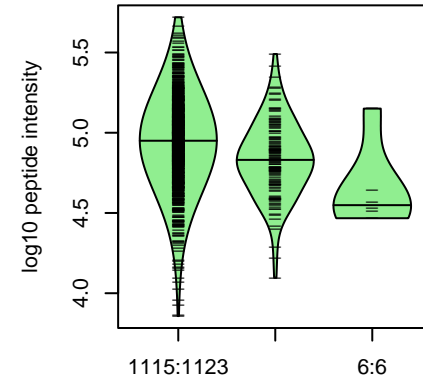
17:34312337:T:C_C
 $p = 2e-13$, $\beta = -0.617$, $N = 1255$

WVQDYIK pc2

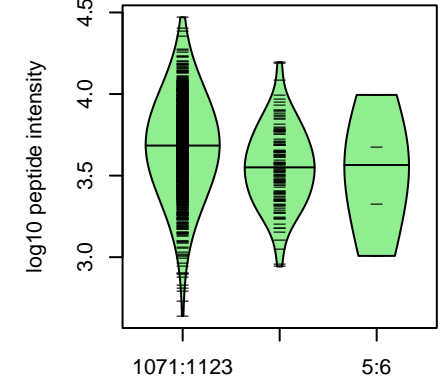
17:34312337:T:C_C
 $p = 1e-12$, $\beta = -0.598$, $N = 1255$

PGIVFITK pc2

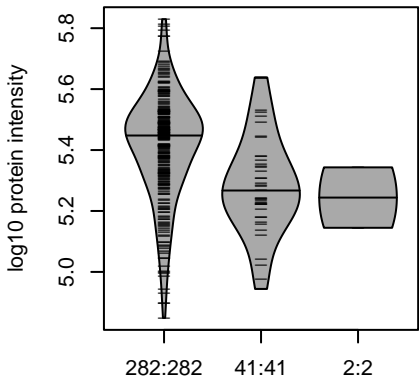
17:34312337:T:C_C
 $p = 2.7e-08$, $\beta = -0.469$, $N = 1254$

IMDYETNSQCSK pc2

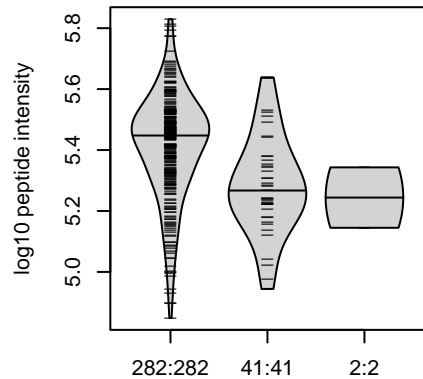
17:34312337:T:C_C
 $p = 1.8e-07$, $\beta = -0.44$, $N = 1251$

GHSVCTNPSDK pc2

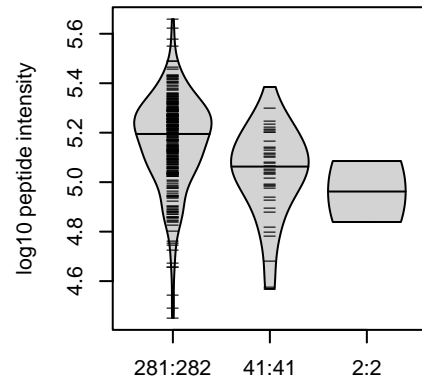
17:34312337:T:C_C
 $p = 9e-07$, $\beta = -0.437$, $N = 1194$

Q16627 NP3

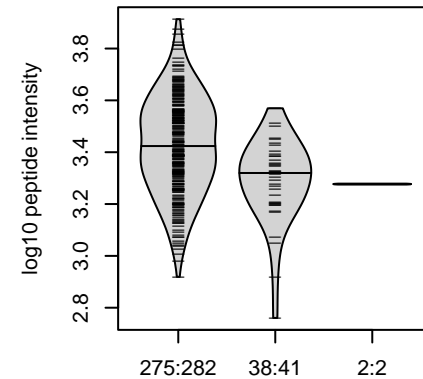
rs9903158
 $p = 5.6e-05$, $\beta = -0.608$, $N = 325$

WVQDYIK pc2

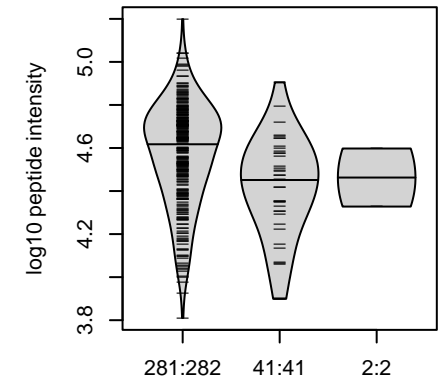
rs9903158
 $p = 5.3e-05$, $\beta = -0.603$, $N = 325$

PGIVFITK pc2

rs9903158
 $p = 0.00012$, $\beta = -0.576$, $N = 324$

GHSVCTNPSDK pc2

rs9903158
 $p = 0.00012$, $\beta = -0.591$, $N = 315$

IMDYETNSQCSK pc2

rs9903158
 $p = 0.00097$, $\beta = -0.494$, $N = 324$

Locus: 162 (Sort: 188)

Status: Replicated

80% power: No

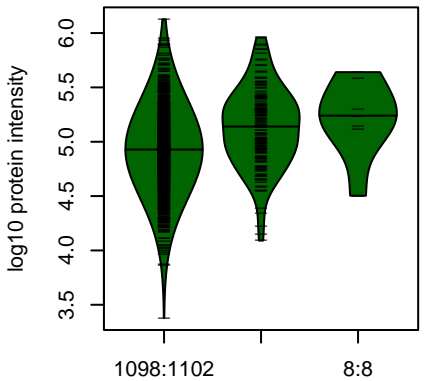
SNP: 17:34312337:T:C

rsID: rs9903158

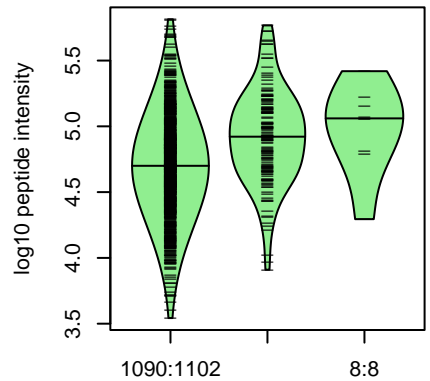
UniProtID: Q16627

HGNC gene: CCL14

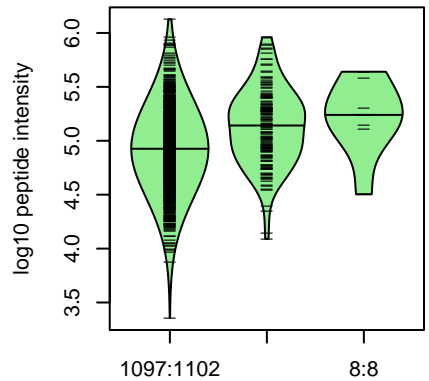
Type: Cis-pQTL

PEBP4 [cis]

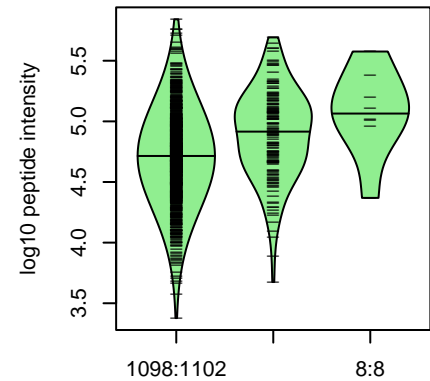
8:22577263:C:T_T
 p = 2e-13, beta = 0.574, N = 1255

IQGQELSAYQAPSPPAHSGFHR pc

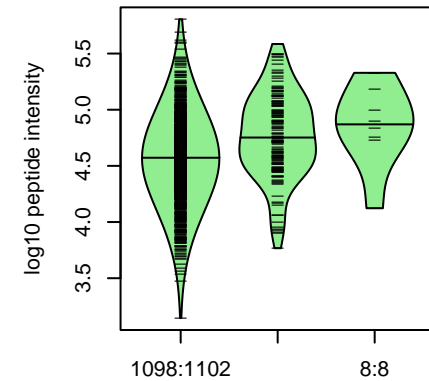
8:22577263:C:T_T
 p = 1.3e-14, beta = 0.606, N = 1244

VVPDCNNYR pc2

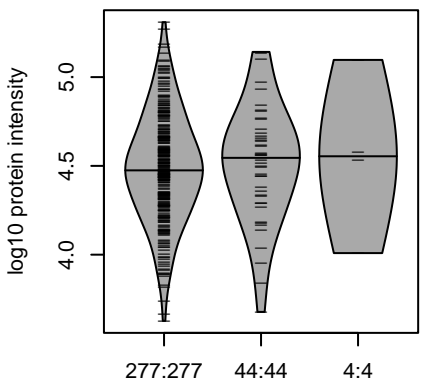
8:22577263:C:T_T
 p = 4.9e-14, beta = 0.589, N = 1253

ITSWMEPIVK pc2

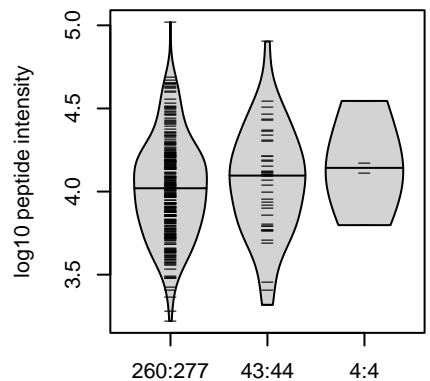
8:22577263:C:T_T
 p = 6.5e-14, beta = 0.585, N = 1255

YQFFVYLQEGK pc2

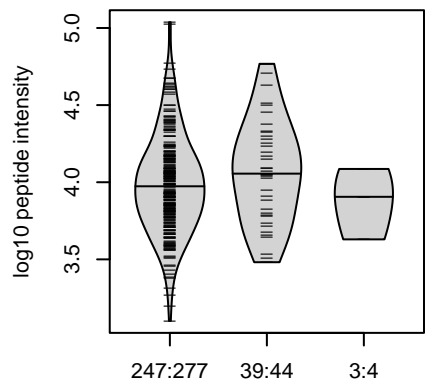
8:22577263:C:T_T
 p = 1.2e-13, beta = 0.58, N = 1254

Q96S96 NP3

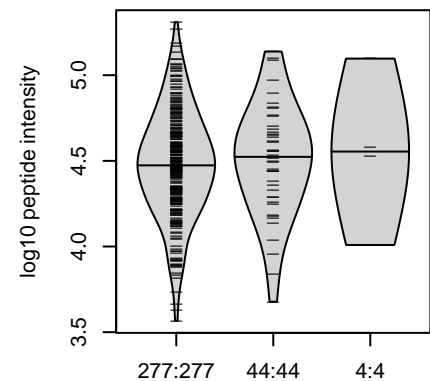
rs13271643
 p = 0.25, beta = 0.157, N = 325

HWLVTDIK pc2

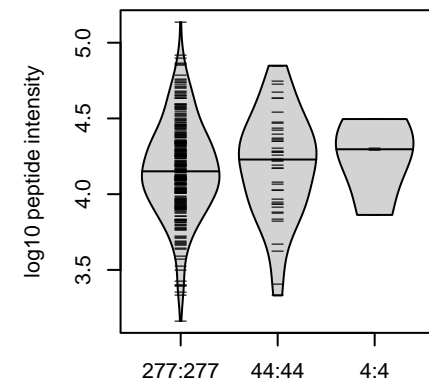
rs13271643
 p = 0.12, beta = 0.216, N = 307

FPGAVDGATYILVMVDPDAPSR pc:

rs13271643
 p = 0.15, beta = 0.215, N = 289

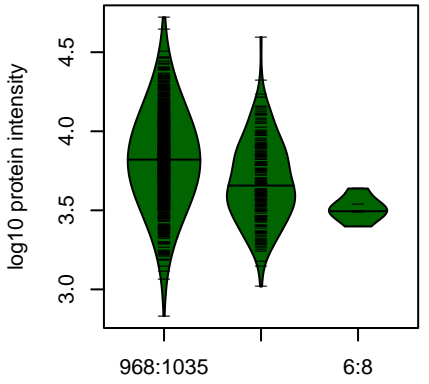
ITSWMEPIVK pc2

rs13271643
 p = 0.24, beta = 0.163, N = 325

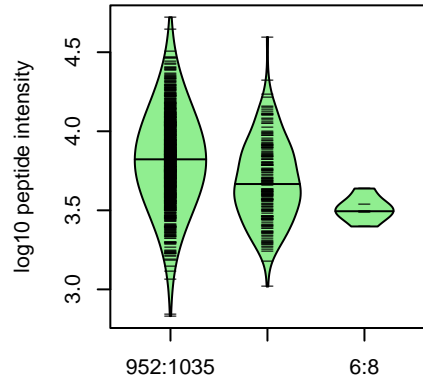
YQFFVYLQEGK pc2

rs13271643
 p = 0.24, beta = 0.16, N = 325

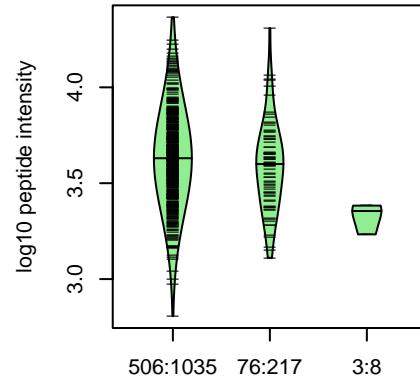
Locus: 163 (Sort: 189)
 Status: Not replicated
 80% power: No
 SNP: 8:22577263:C:T
 rsID: rs13271643
 UniProtID: Q96S96
 HGNC gene: PEBP4
 Type: Cis-pQTL

CFHR4 [cis]

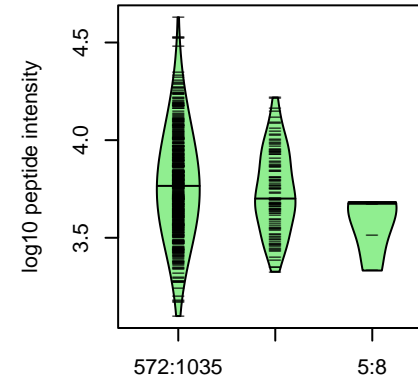
1:196887457:G:A_A
 $p = 2e-13$, $\beta = -0.54$, $N = 1165$

FCDMPVFENSR pc2

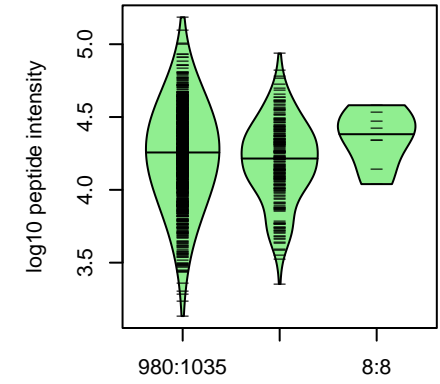
1:196887457:G:A_A
 $p = 1.2e-12$, $\beta = -0.528$, $N = 1144$

VYLPWSR pc2

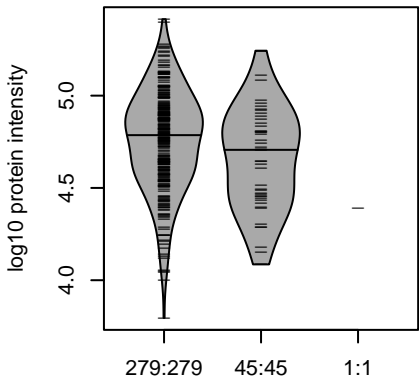
1:196887457:G:A_A
 $p = 0.025$, $\beta = -0.253$, $N = 585$

EGIVEYPRCE pc2

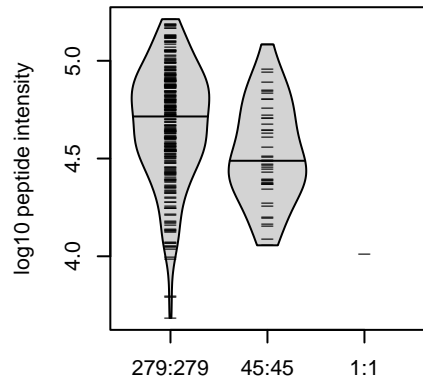
1:196887457:G:A_A
 $p = 0.064$, $\beta = -0.175$, $N = 690$

TGDTIEFMCK pc2

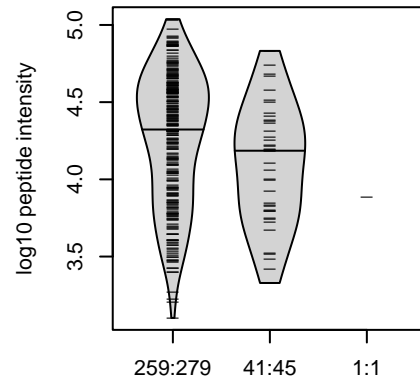
1:196887457:G:A_A
 $p = 0.096$, $\beta = -0.117$, $N = 1201$

Q92496 NP5

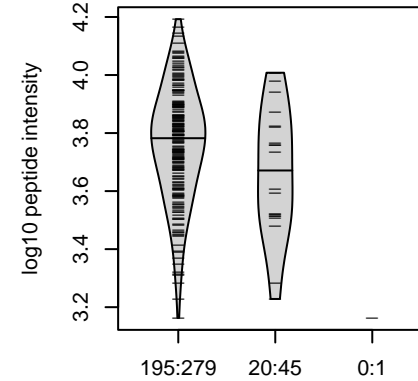
rs10494745
 $p = 0.002$, $\beta = -0.464$, $N = 325$

FCDMPVFENSR pc2

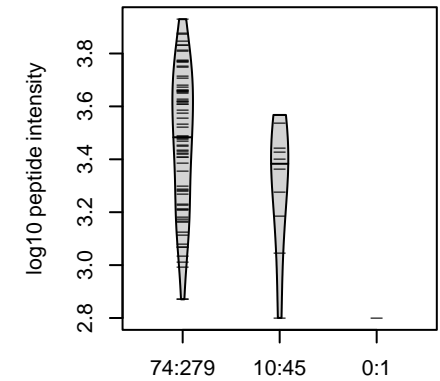
rs10494745
 $p = 3.4e-06$, $\beta = -0.695$, $N = 325$

VYLPWSR pc2

rs10494745
 $p = 0.0021$, $\beta = -0.483$, $N = 301$

PCEFPEIQHGHLIYENTR pc4

rs10494745
 $p = 0.0065$, $\beta = -0.623$, $N = 215$

VEYQCQSYELQGSK pc2

rs10494745
 $p = 0.024$, $\beta = -0.726$, $N = 84$

Locus: 164 (Sort: 190)

Status: Not replicated

80% power: No

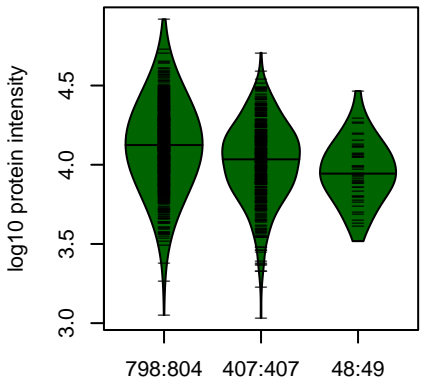
SNP: 1:196887457:G:A

rsID: rs10494745

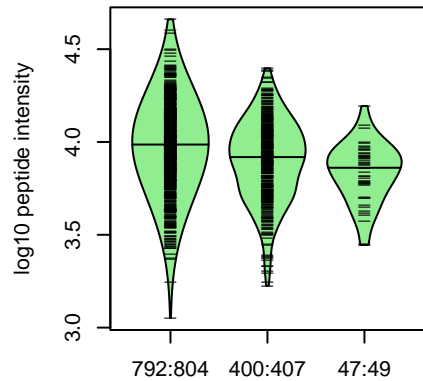
UniProtID: Q92496

HGNC gene: CFHR4

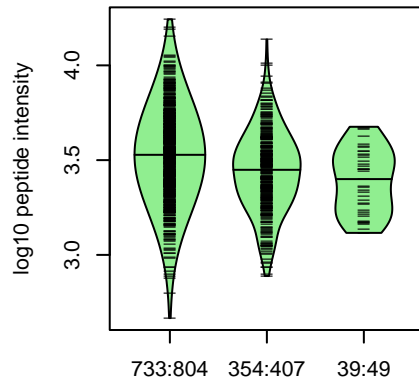
Type: Cis-pQTL

IL7R [trans]

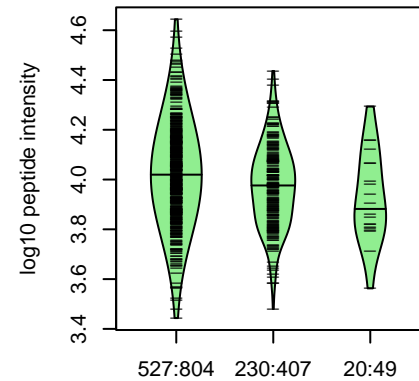
9:136153875:C:T_T
 $p = 2.1e-13$, $\beta = -0.363$, $N = 1253$

LQEIFYETK pc2

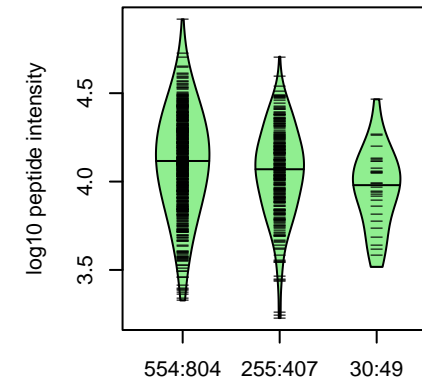
9:136153875:C:T_T
 $p = 1.6e-10$, $\beta = -0.319$, $N = 1239$

VLMHDVAYR pc2

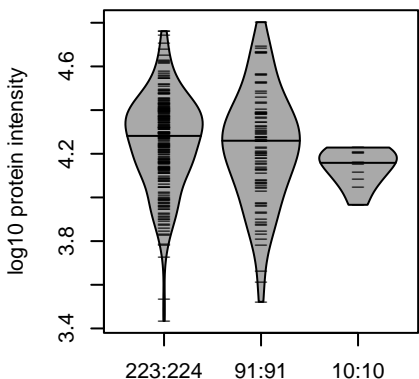
9:136153875:C:T_T
 $p = 1.7e-10$, $\beta = -0.34$, $N = 1126$

SIPDHYFK pc2

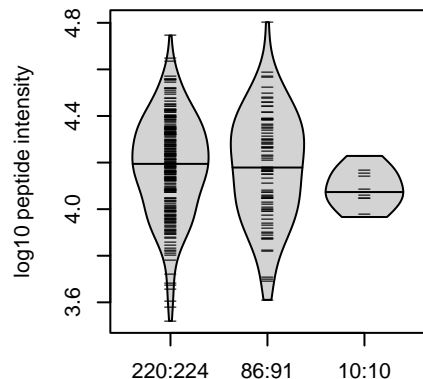
9:136153875:C:T_T
 $p = 7.7e-05$, $\beta = -0.266$, $N = 777$

LQPAAMYEIK pc2

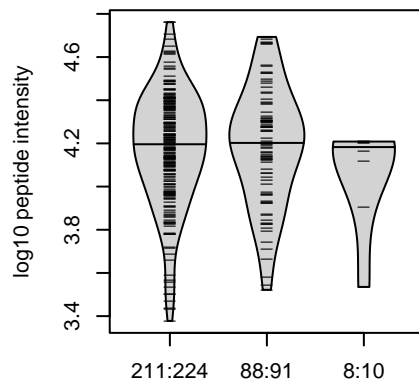
9:136153875:C:T_T
 $p = 0.00071$, $\beta = -0.209$, $N = 839$

P16871 NP2

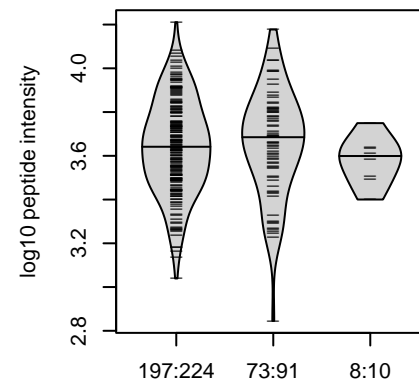
rs651007
 $p = 0.087$, $\beta = -0.177$, $N = 324$

LQEIFYETK pc2

rs651007
 $p = 0.37$, $\beta = -0.0923$, $N = 316$

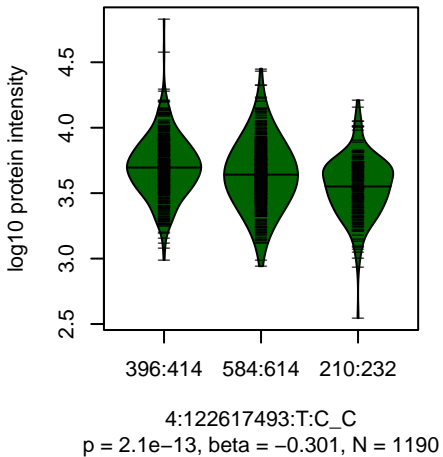
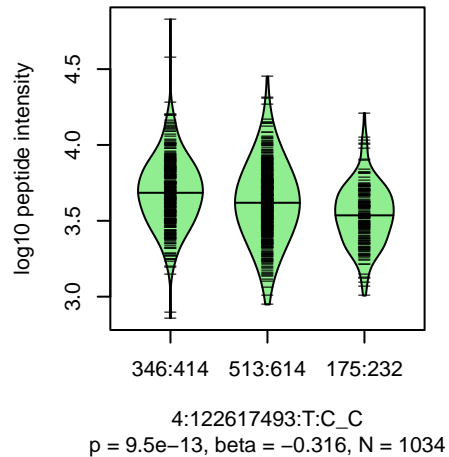
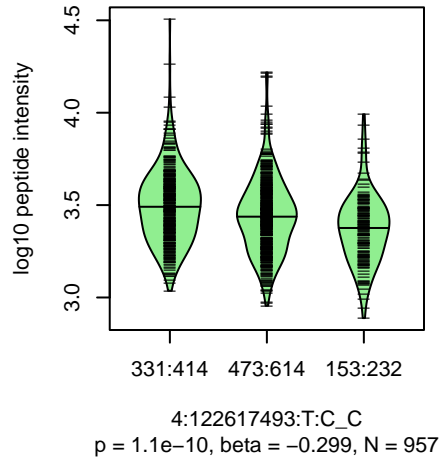
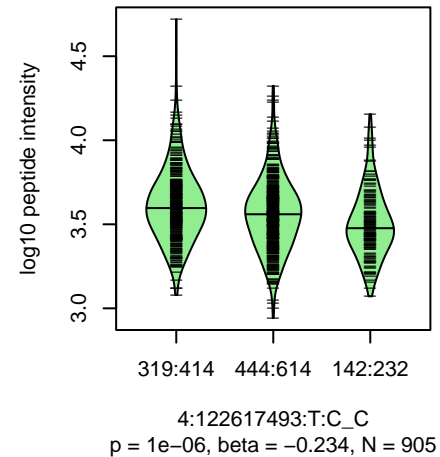
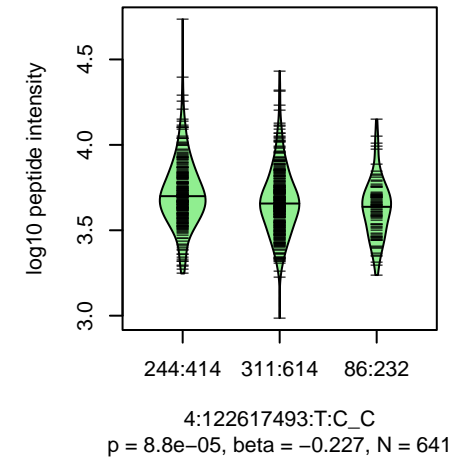
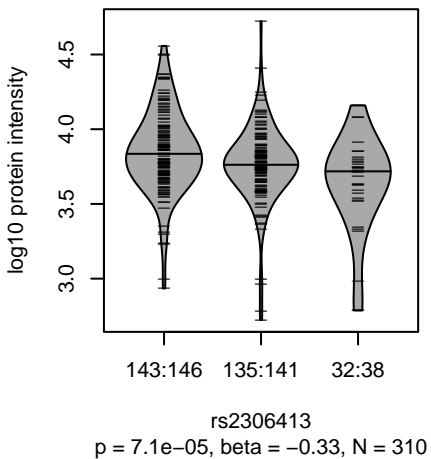
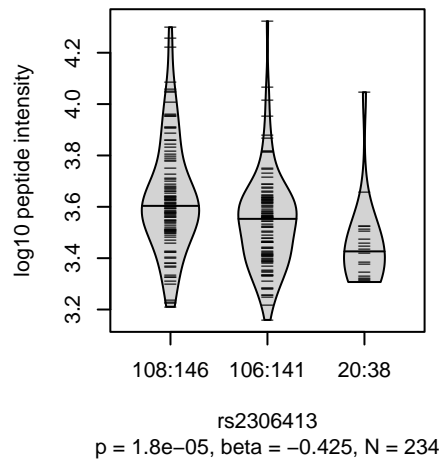
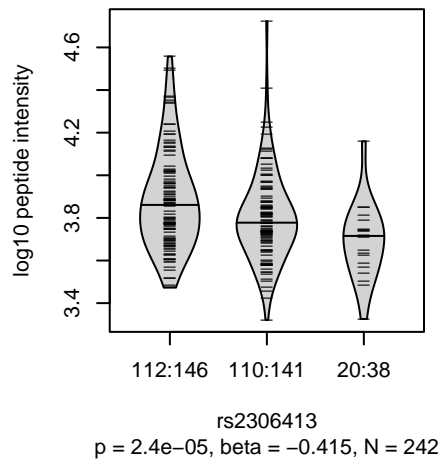
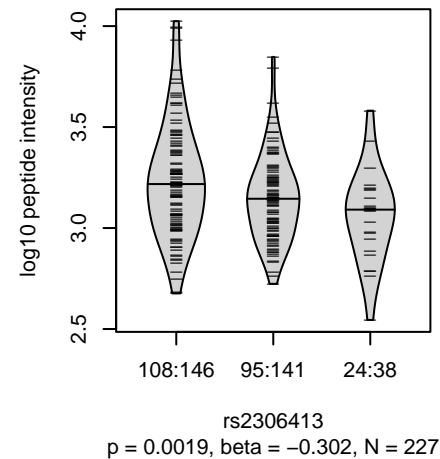
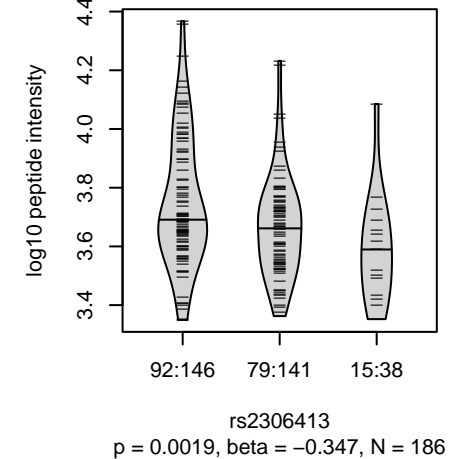
LQPAAMYEIK pc2

rs651007
 $p = 0.9$, $\beta = -0.0137$, $N = 307$

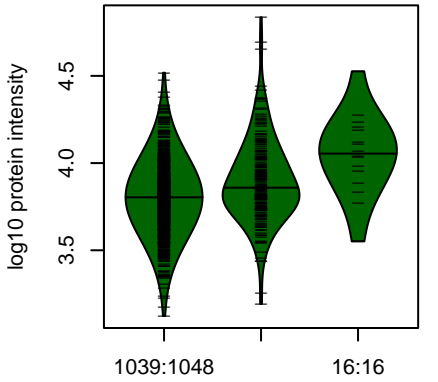
VLMHDVAYR pc2

rs651007
 $p = 1$, $\beta = -0.000593$, $N = 278$

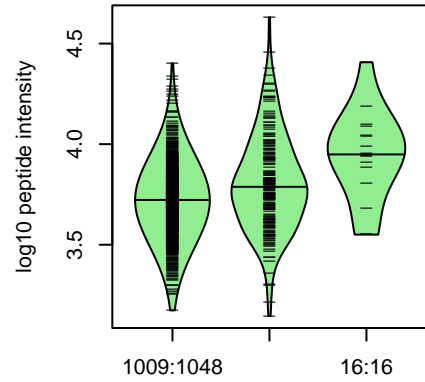
Locus: 165 (Sort: 191)
 Status: Not replicated
 80% power: No
 SNP: 9:136153875:C:T
 rsID: rs651007
 UniProtID: P16871
 HGNC gene: IL7R
 Type: Trans-pQTL

ANXA5 [cis]**FITIFGTR pc2****GTVTDFPGFDER pc2****SEIDLFNIR pc2****VLTEIIASR pc2****P08758 NP1****GTVTDFPGFDER pc2****FITIFGTR pc2****GLGTDEESILTLTSLR pc2****SEIDLFNIR pc2**

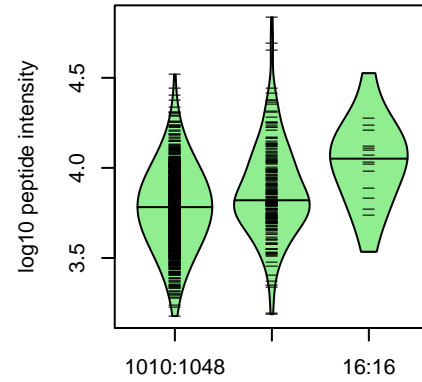
Locus: 166 (Sort: 192)
 Status: Replicated
 80% power: No
 SNP: 4:122617493:T:C
 rsID: rs2306413
 UniProtID: P08758
 HGNC gene: ANXA5
 Type: Cis-pQTL

TAC3 [cis]

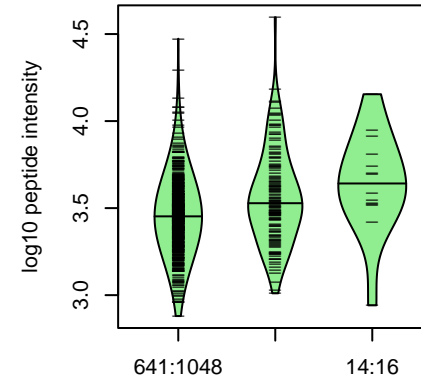
12:57216590:C:T_T
 $p = 2.2e-13$, $\beta = 0.491$, $N = 1249$

ALSQASTDPK pc2

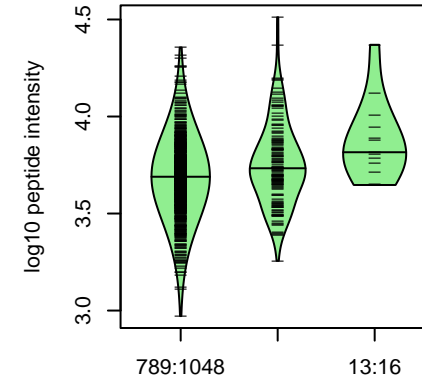
12:57216590:C:T_T
 $p = 1.4e-11$, $\beta = 0.455$, $N = 1217$

DPDLYQLLQR pc2

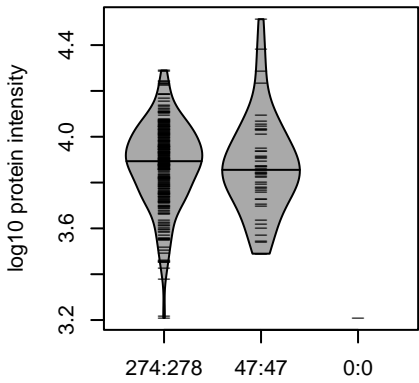
12:57216590:C:T_T
 $p = 1.6e-11$, $\beta = 0.455$, $N = 1217$

EPQEEVPGGGR pc2

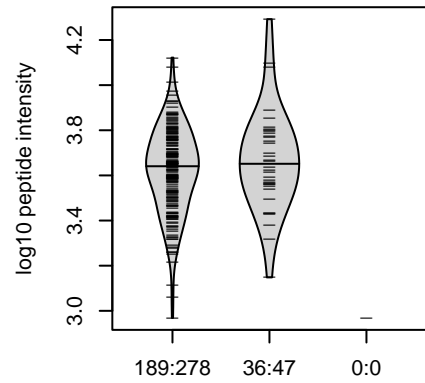
12:57216590:C:T_T
 $p = 2.6e-07$, $\beta = 0.403$, $N = 792$

SHSSLEGLLK pc2

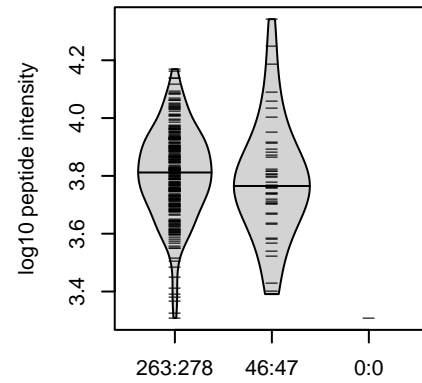
12:57216590:C:T_T
 $p = 6.1e-06$, $\beta = 0.35$, $N = 943$

Q9UHF0 NP2

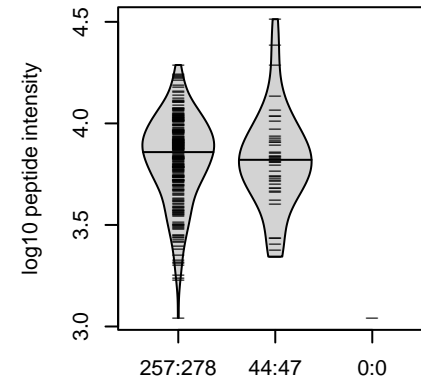
rs113940456
 $p = 0.58$, $\beta = -0.0856$, $N = 321$

EPQEEVPGGGR pc2

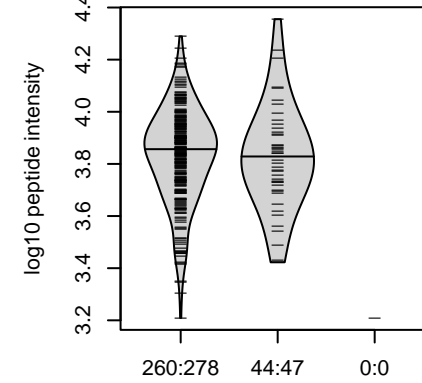
rs113940456
 $p = 0.15$, $\beta = 0.26$, $N = 225$

ALSQASTDPK pc2

rs113940456
 $p = 0.33$, $\beta = -0.153$, $N = 309$

DPDLYQLLQR pc2

rs113940456
 $p = 0.66$, $\beta = -0.0716$, $N = 301$

SHSSLEGLLK pc2

rs113940456
 $p = 0.69$, $\beta = -0.0642$, $N = 304$

Locus: 167 (Sort: 193)

Status: Not replicated

80% power: No

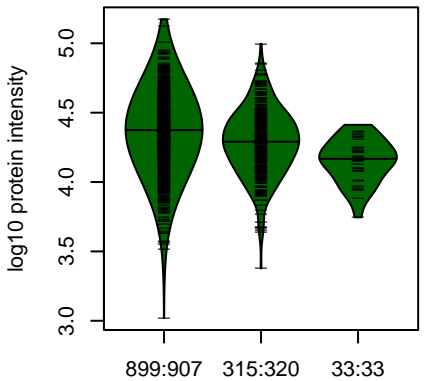
SNP: 12:57216590:C:T

rsID: rs113940456

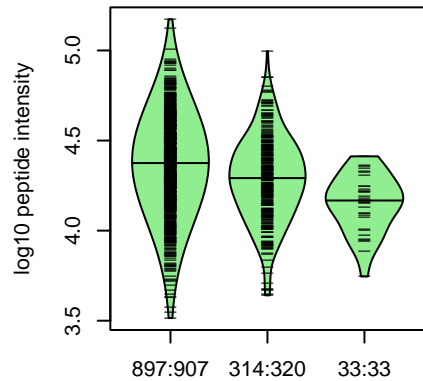
UniProtID: Q9UHF0

HGNC gene: TAC3

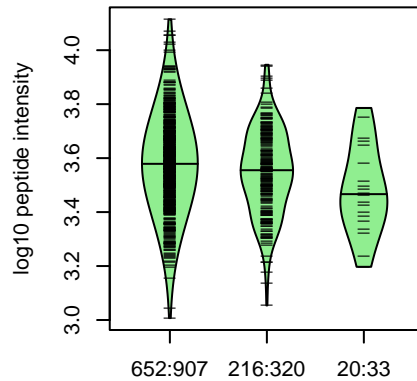
Type: Cis-pQTL

HLA-A [cis]

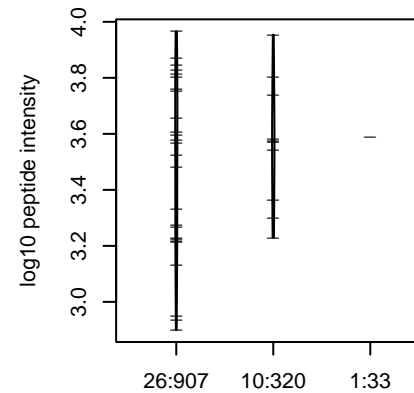
6:31323567:G:A_A
 $p = 2.2e-13$, $\beta = -0.398$, $N = 1247$

FIAGYVDDTQFVR pc2

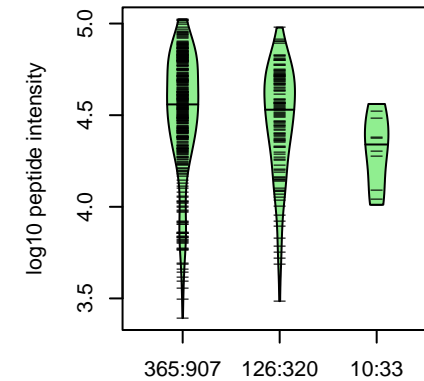
6:31323567:G:A_A
 $p = 1.2e-13$, $\beta = -0.403$, $N = 1244$

YTCHVQHEGLPK pc3

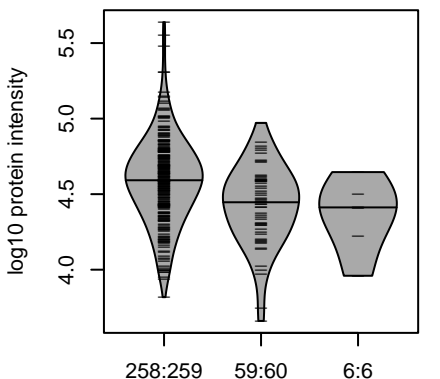
6:31323567:G:A_A
 $p = 0.00023$, $\beta = -0.245$, $N = 888$

AYLDGTCVEWLR pc2

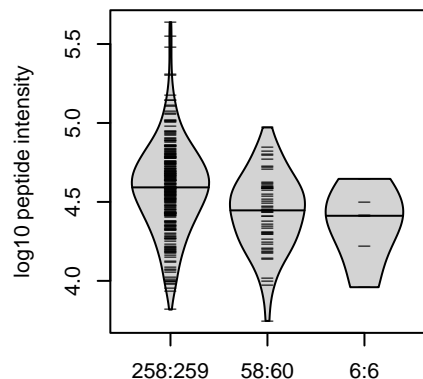
6:31323567:G:A_A
 $p = 0.032$, $\beta = 0.617$, $N = 37$

DYIALNEDLR pc2

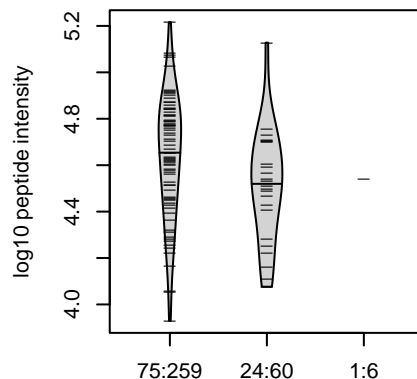
6:31323567:G:A_A
 $p = 0.076$, $\beta = -0.158$, $N = 501$

Q5SRN5 NP1

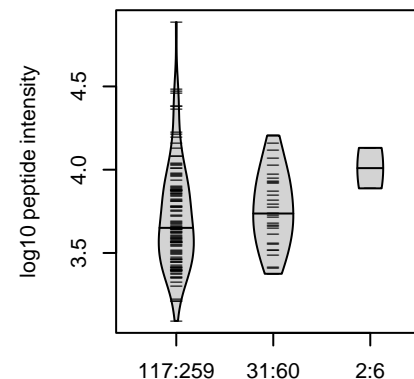
rs4081560
 $p = 5.5e-05$, $\beta = -0.478$, $N = 323$

FIAGYVDDTQFVR pc2

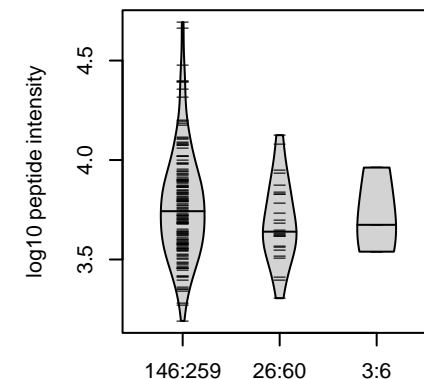
rs4081560
 $p = 0.00016$, $\beta = -0.452$, $N = 322$

DYIALNEDLR pc2

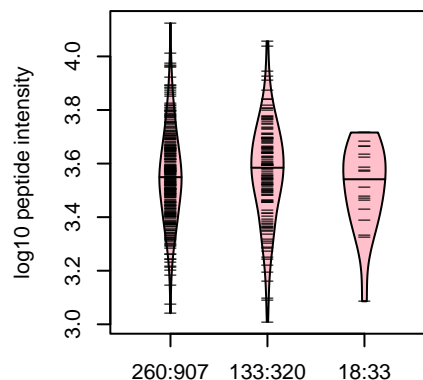
rs4081560
 $p = 0.066$, $\beta = -0.384$, $N = 100$

THMTHHPISDHEATLR pc4

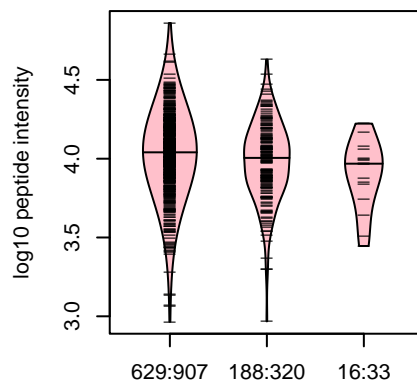
rs4081560
 $p = 0.099$, $\beta = 0.29$, $N = 150$

YTCHVQHEGLPK pc3

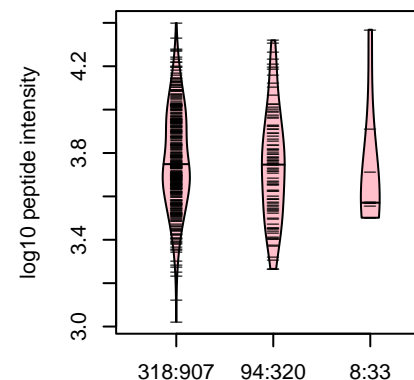
rs4081560
 $p = 0.23$, $\beta = -0.208$, $N = 175$

**SWTAADMAAQITQR pc2
rs1059517 ALT**

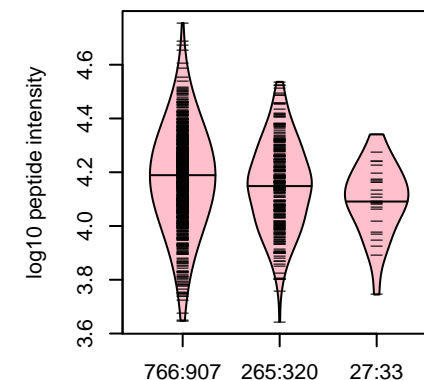
6:31323567:G:A_A
 $p = 2.6e-06$, $\text{model} = \text{REC}$, $N = 411$

**SWTAADMAAQITK pc2
rs1059517 REF**

6:31323567:G:A_A
 $p = 0.00012$, $\text{model} = \text{REC}$, $N = 833$

**AQSQTDRVDLGLTLR pc3
rs1071742;rs199474457 REF**

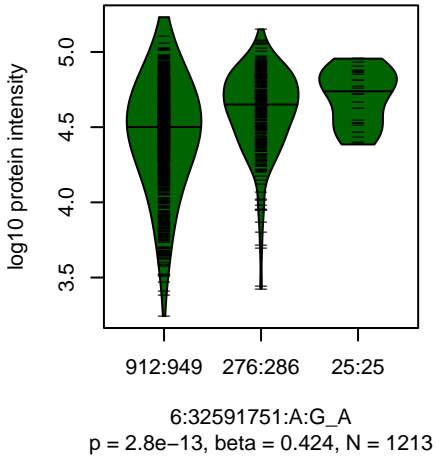
6:31323567:G:A_A
 $p = 0.039$, $\text{model} = \text{REC}$, $N = 420$

**FSDAASQR pc2
rs707910 REF**

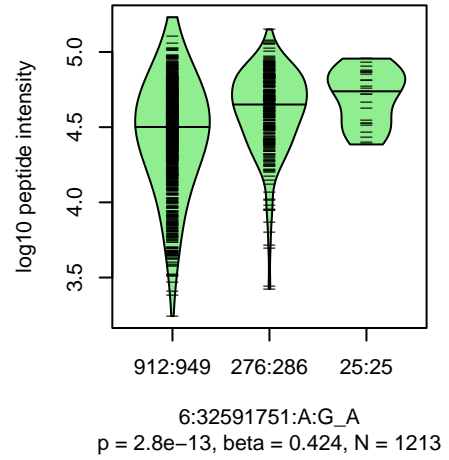
6:31323567:G:A_A
 $p = 0.44$, $\text{model} = \text{REC}$, $N = 1058$

Locus: 168 (Sort: 194)
 Status: Replicated
 80% power: No
 SNP: 6:31323567:G:A
 rsID: rs4081560
 UniProtID: Q5SRN5
 HGNC gene: HLA-A
 Type: Cis-pQTL

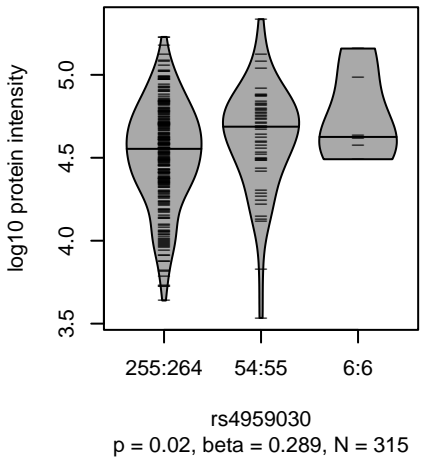
HLA-G [cis]



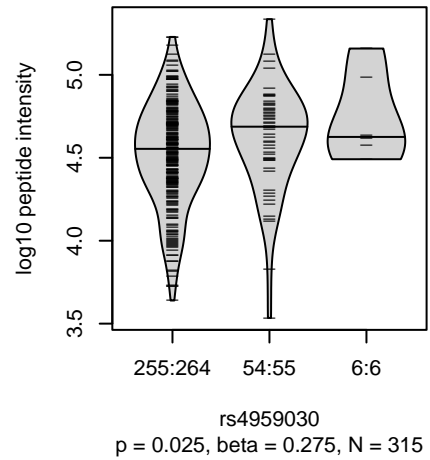
DYLALNEDLR pc2



Q5RJ85 NP1

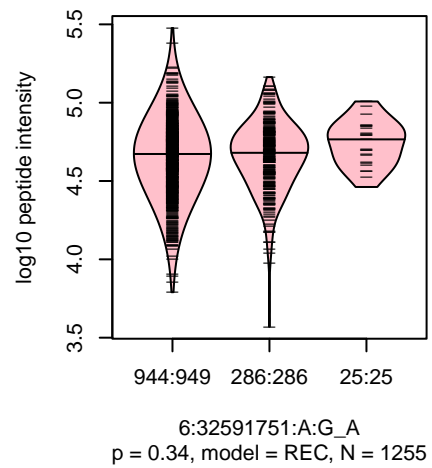


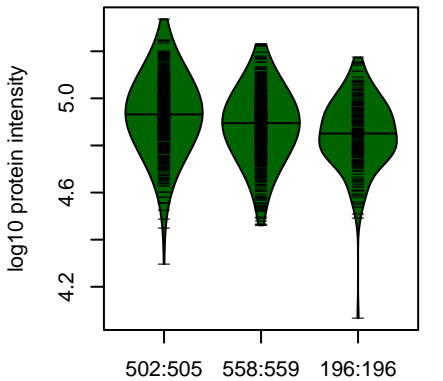
DYLALNEDLR pc2



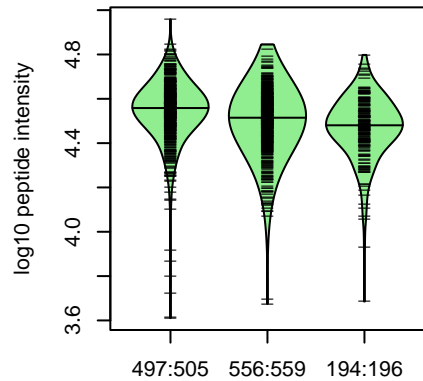
Locus: 169 (Sort: 195)
Status: Not replicated
80% power: No
SNP: 6:32591751:A:G
rsID: rs4959030
UniProtID: Q5RJ85
HGNC gene: HLA-G
Type: Cis-pQTL

WAAVVPSGEEQR pc2 rs707908;rs1736924 ALT

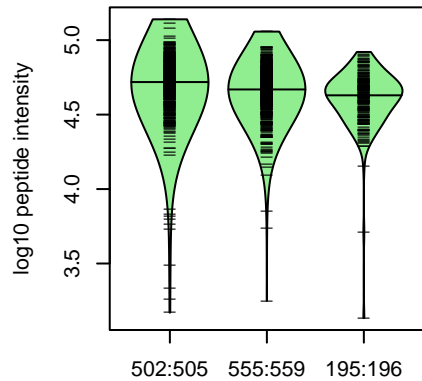


ECM2 [cis]

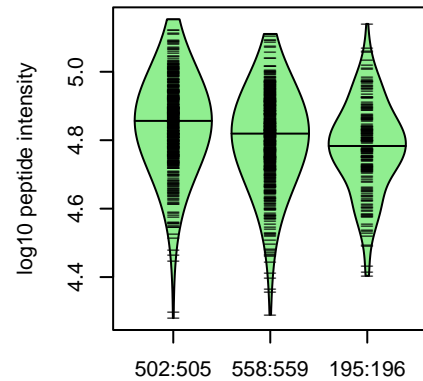
9:95281459:A:G_G
 $p = 3.7e-13$, $\beta = -0.287$, $N = 1256$

LYHVPSYLPK pc3

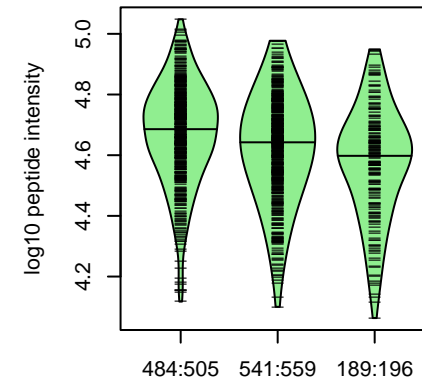
9:95281459:A:G_G
 $p = 7.3e-14$, $\beta = -0.297$, $N = 1247$

SLHLVLLGNQIER pc3

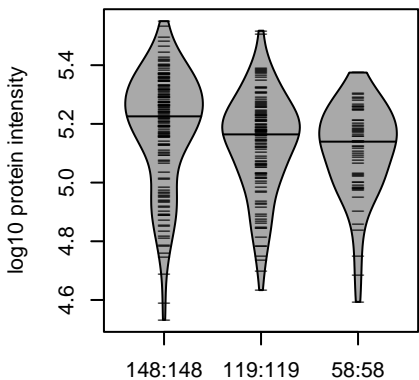
9:95281459:A:G_G
 $p = 9.6e-14$, $\beta = -0.294$, $N = 1252$

VLCDETMCHPQR pc3

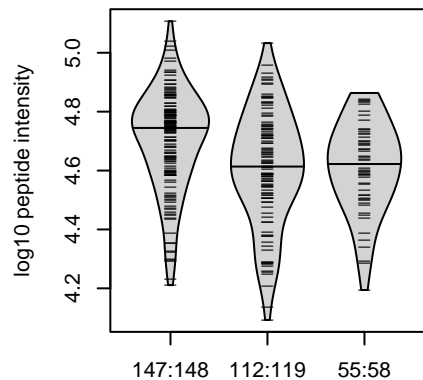
9:95281459:A:G_G
 $p = 8.7e-12$, $\beta = -0.27$, $N = 1255$

QLPPPQVGMDR pc2

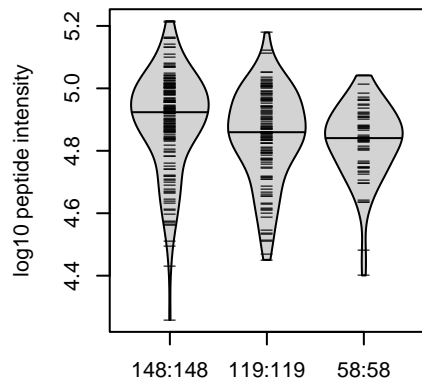
9:95281459:A:G_G
 $p = 1.4e-11$, $\beta = -0.272$, $N = 1214$

O94769 NP2

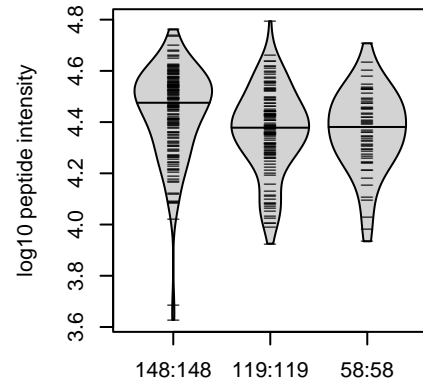
rs12338938
 $p = 0.0026$, $\beta = -0.221$, $N = 325$

QLPPPQVGMDR pc2

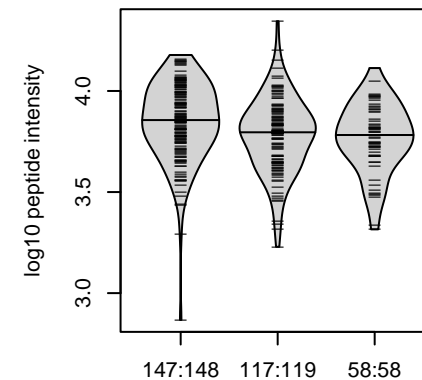
rs12338938
 $p = 1.8e-05$, $\beta = -0.316$, $N = 314$

VLCDETMCHPQR pc3

rs12338938
 $p = 0.00036$, $\beta = -0.26$, $N = 325$

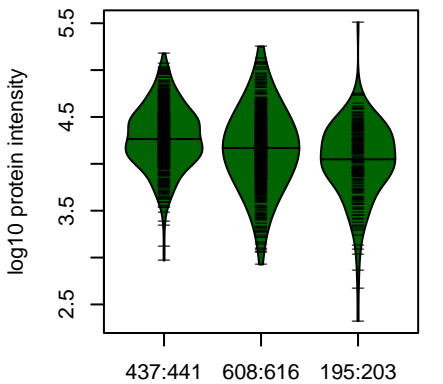
NQGQLYSEGDSR pc2

rs12338938
 $p = 0.00063$, $\beta = -0.249$, $N = 325$

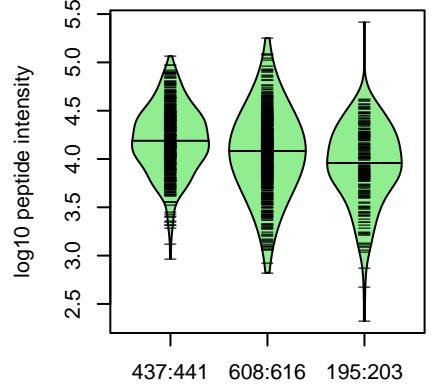
EPTNLLHK pc2

rs12338938
 $p = 0.0014$, $\beta = -0.234$, $N = 322$

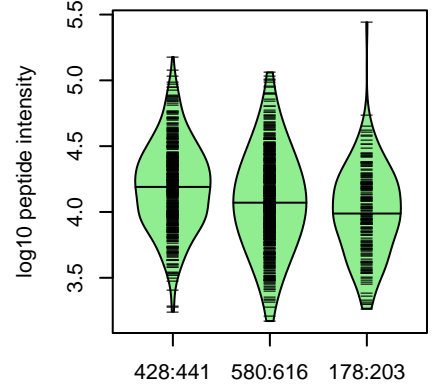
Locus: 170 (Sort: 196)
 Status: Not replicated
 80% power: No
 SNP: 9:95281459:A:G
 rsID: rs12338938
 UniProtID: O94769
 HGNC gene: ECM2
 Type: Cis-pQTL

SFTPD [cis]

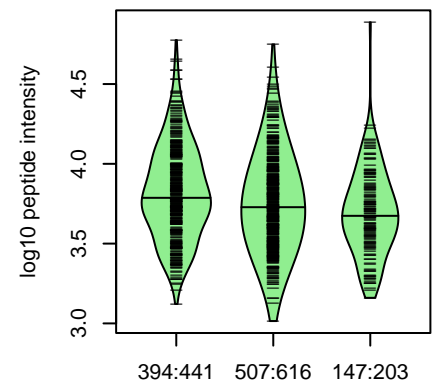
10:81318820:G:A_G
 $p = 4.1e-13$, $\beta = -0.296$, $N = 1240$

SAAENAALQQLVVAK pc2

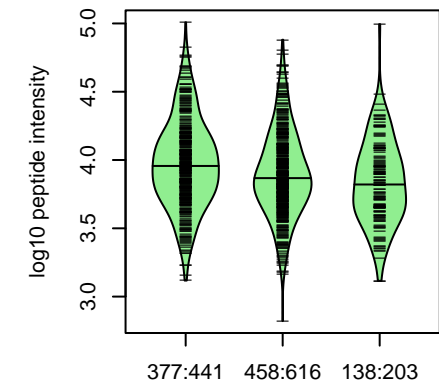
10:81318820:G:A_G
 $p = 1.8e-13$, $\beta = -0.3$, $N = 1240$

NEAAFLSMTDSK pc2

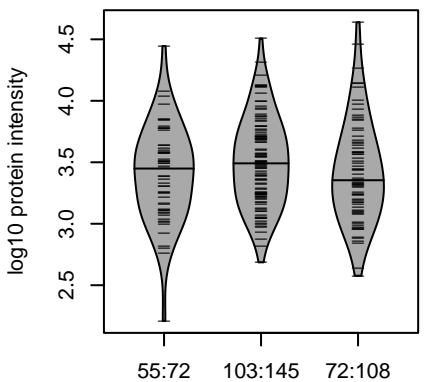
10:81318820:G:A_G
 $p = 6.4e-10$, $\beta = -0.26$, $N = 1186$

QGNIGPQGK pc2

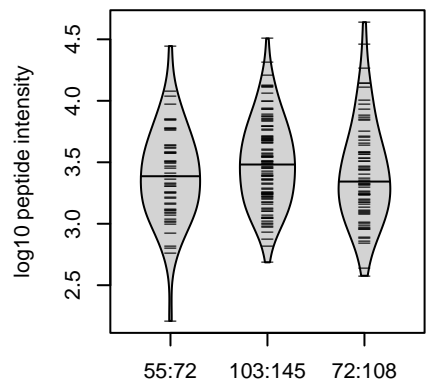
10:81318820:G:A_G
 $p = 4e-06$, $\beta = -0.208$, $N = 1048$

KVELFPNGQSVGEK pc3

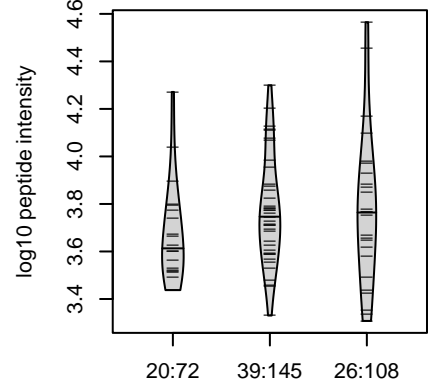
10:81318820:G:A_G
 $p = 2.2e-05$, $\beta = -0.197$, $N = 973$

P35247 NP5

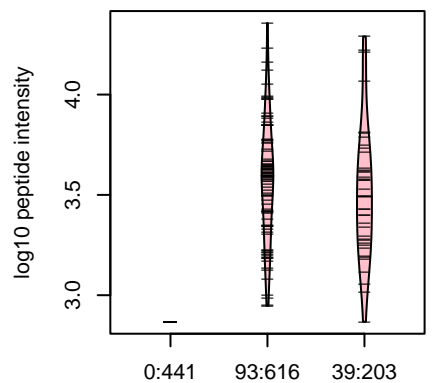
rs17880349
 $p = 0.37$, $\beta = -0.0793$, $N = 230$

SAAENAALQQLVVAK pc2

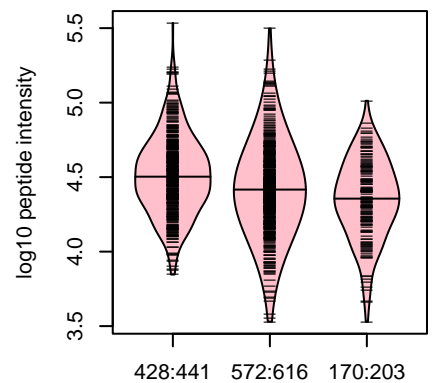
rs17880349
 $p = 0.39$, $\beta = -0.0753$, $N = 230$

NEAAFLSMTDSK pc2

rs17880349
 $p = 0.5$, $\beta = 0.0965$, $N = 85$

**PFTEAQLLCTQAGGQLATPR pc3
rs3088308 ALT**

10:81318820:G:A_G
 $p = 4.7e-27$, $\text{model} = \text{REC}$, $N = 132$

**PFTEAQLLCTQAGGQLASPR pc3
rs3088308 REF**

10:81318820:G:A_G
 $p = 7.1e-07$, $\text{model} = \text{DOM}$, $N = 1170$

Locus: 171 (Sort: 197)

Status: Not replicated

80% power: No

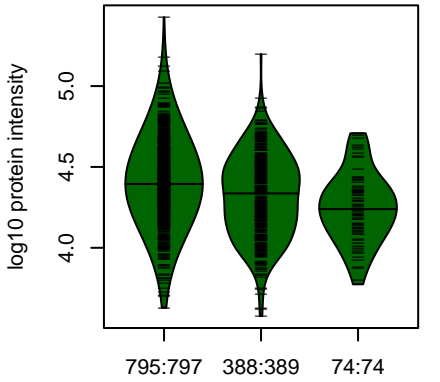
SNP: 10:81318820:G:A

rsID: rs17880349

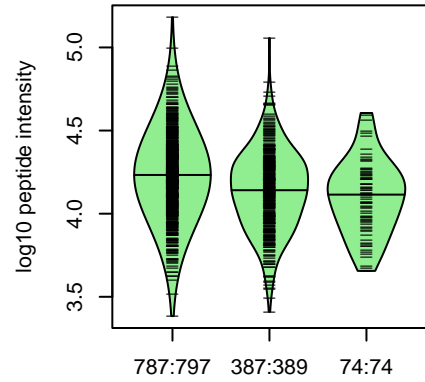
UniProtID: P35247

HGNC gene: SFTPD

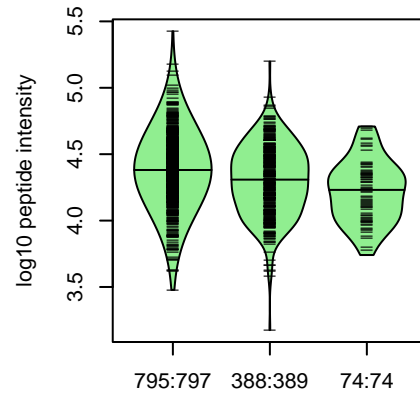
Type: Cis-pQTL

CNDP2 [cis]

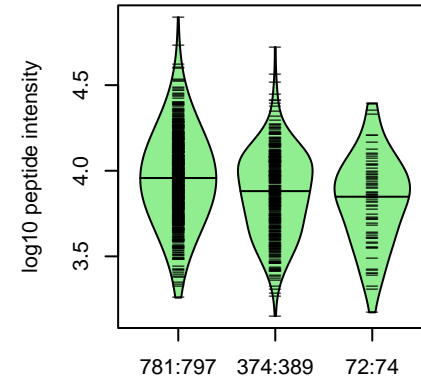
18:72176083:T:C_C
 $p = 4.7e-13$, $\beta = -0.334$, $N = 1257$

TVFGVEPDLTR pc2

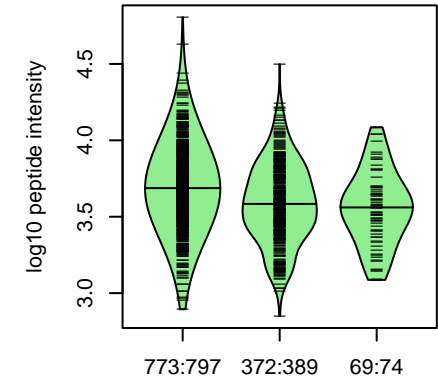
18:72176083:T:C_C
 $p = 4e-12$, $\beta = -0.321$, $N = 1248$

GNILPGINEAVAAVTEEEHK pc3

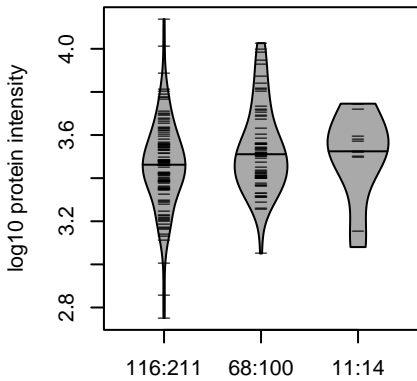
18:72176083:T:C_C
 $p = 3.3e-11$, $\beta = -0.307$, $N = 1257$

WVAIQSVSAWPEK pc2

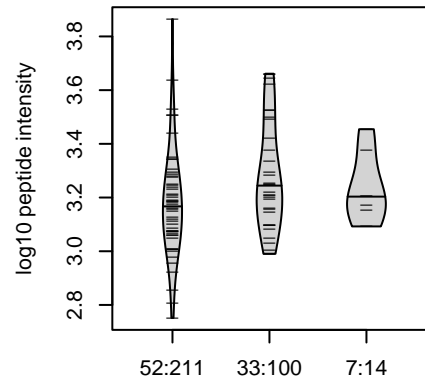
18:72176083:T:C_C
 $p = 3.7e-11$, $\beta = -0.31$, $N = 1227$

LYDDIDFDIEEFAK pc2

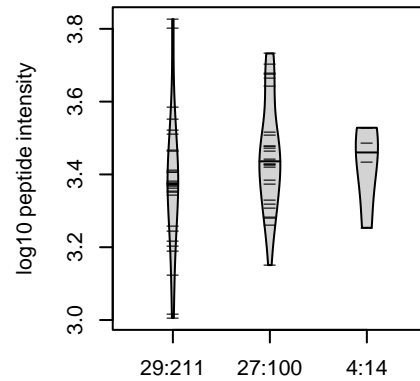
18:72176083:T:C_C
 $p = 7.3e-11$, $\beta = -0.309$, $N = 1214$

Q96KP4 NP5

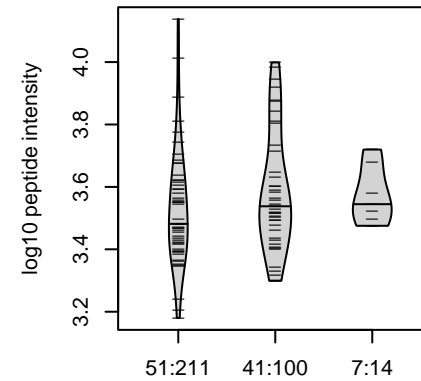
rs2278161
 $p = 0.053$, $\beta = 0.225$, $N = 195$

EGGSIPVTLTFQEATGK pc2

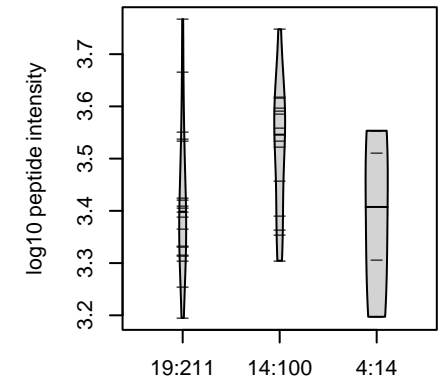
rs2278161
 $p = 0.091$, $\beta = 0.268$, $N = 92$

QLGGSVELVDIGK pc2

rs2278161
 $p = 0.14$, $\beta = 0.298$, $N = 60$

TVFGVEPDLTR pc2

rs2278161
 $p = 0.15$, $\beta = 0.226$, $N = 99$

WVAIQSVSAWPEK pc2

rs2278161
 $p = 0.24$, $\beta = 0.267$, $N = 37$

Locus: 172 (Sort: 198)

Status: Not replicated

80% power: No

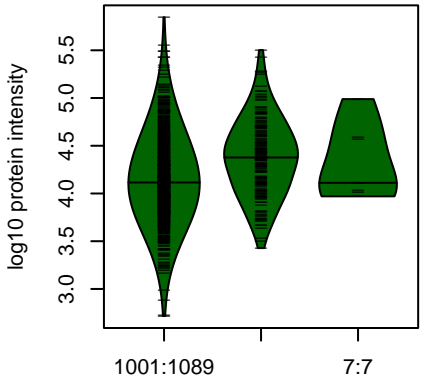
SNP: 18:72176083:T:C

rsID: rs2278161

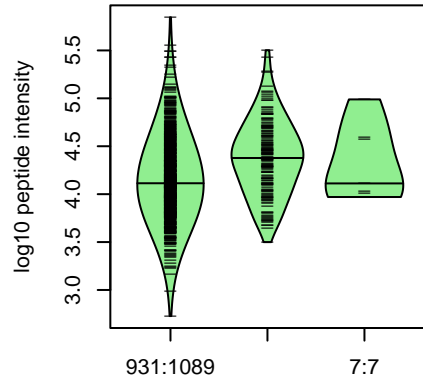
UniProtID: Q96KP4

HGNC gene: CNDP2

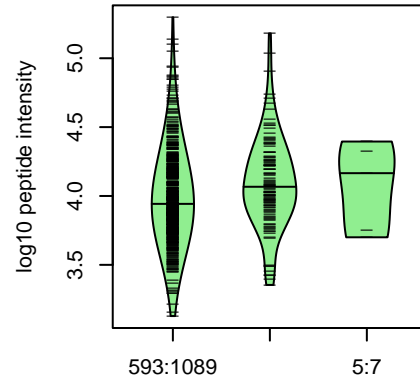
Type: Cis-pQTL

IGKV2D-29 [cis]

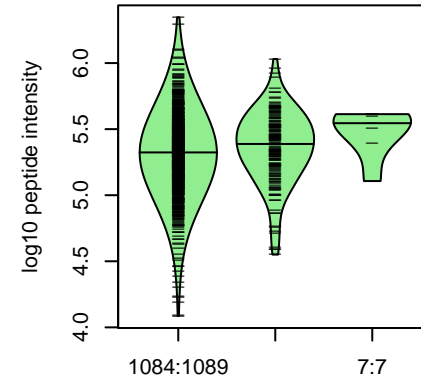
2:95365118:G:C_C
 $p = 5.1e-13$, $\beta = 0.564$, $N = 1164$

TYLYWYLQK pc2

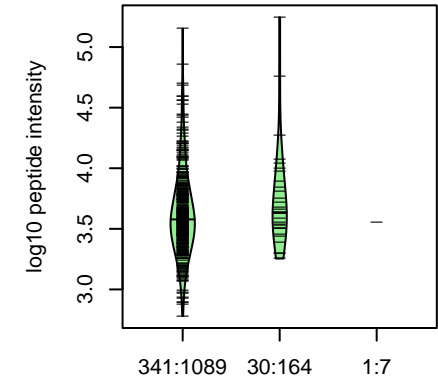
2:95365118:G:C_C
 $p = 9.2e-13$, $\beta = 0.565$, $N = 1090$

SSQSLHSDGK pc2

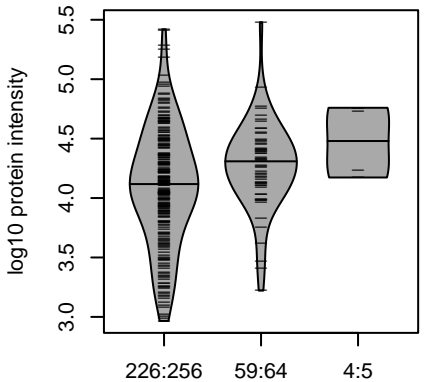
2:95365118:G:C_C
 $p = 6.4e-05$, $\beta = 0.375$, $N = 710$

FSGSGSGTDFTLK pc2

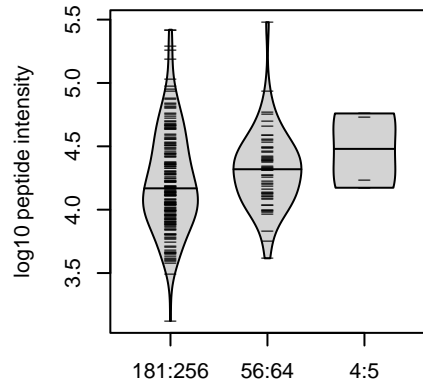
2:95365118:G:C_C
 $p = 0.0019$, $\beta = 0.239$, $N = 1255$

PGQPQLLIYEVSNR pc3

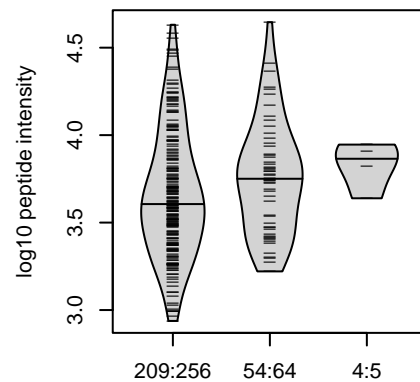
2:95365118:G:C_C
 $p = 0.047$, $\beta = 0.35$, $N = 372$

A0A075B6S2 NP3

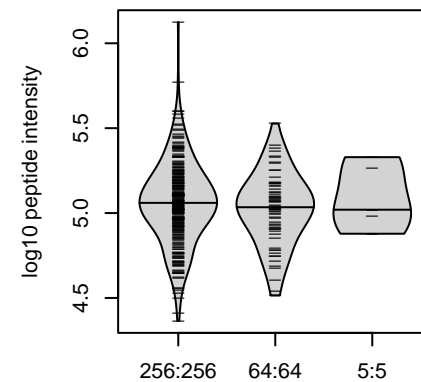
rs62148537
 $p = 0.00069$, $\beta = 0.435$, $N = 289$

TYLYWYLQK pc2

rs62148537
 $p = 0.0063$, $\beta = 0.36$, $N = 241$

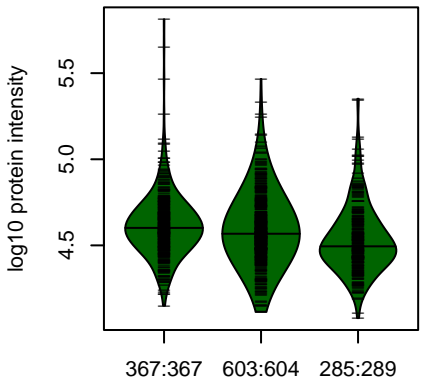
SSQSLHSDGK pc2

rs62148537
 $p = 0.042$, $\beta = 0.267$, $N = 267$

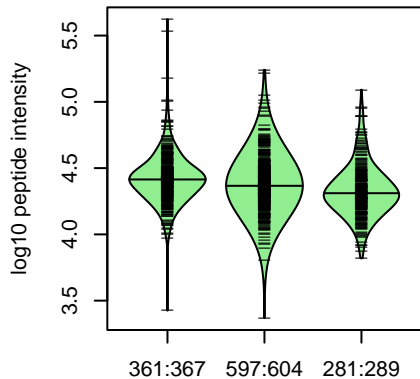
FSGSGSGTDFTLK pc2

rs62148537
 $p = 0.6$, $\beta = -0.0639$, $N = 325$

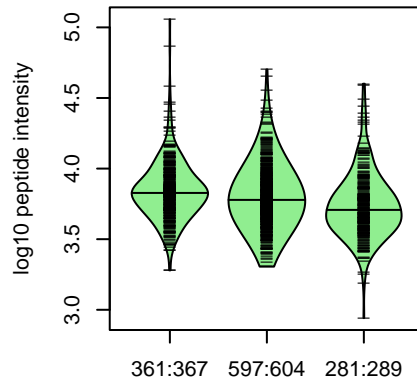
Locus: 173 (Sort: 199)
 Status: Not replicated
 80% power: No
 SNP: 2:95365118:G:C
 rsID: rs62148537
 UniProtID: A0A075B6S2
 HGNC gene: IGKV2D-29
 Type: Cis-pQTL

AEBP1 [cis]

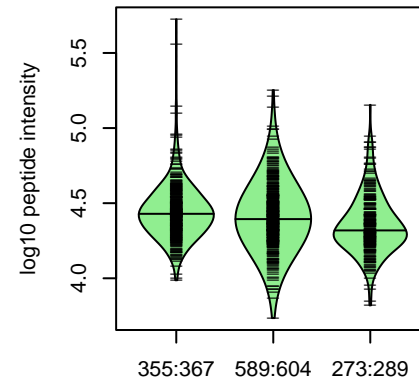
7:44157978:A:G_G
 $p = 5.1e-13$, $\beta = -0.28$, $N = 1255$

IEDNQIR pc2

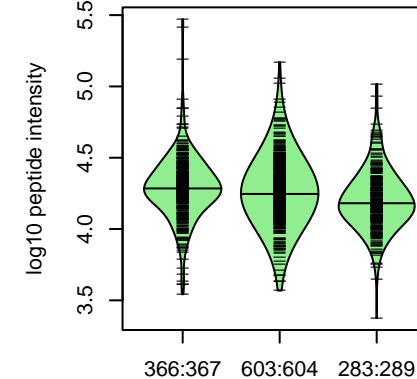
7:44157978:A:G_G
 $p = 5.7e-15$, $\beta = -0.304$, $N = 1239$

VVNEECPTITR pc2

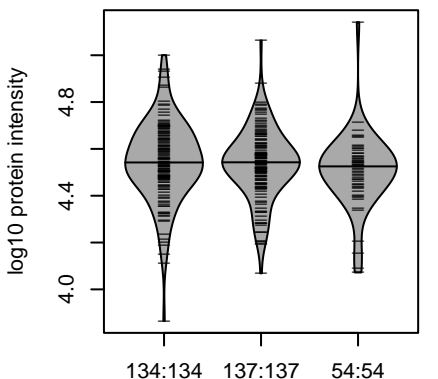
7:44157978:A:G_G
 $p = 8.3e-14$, $\beta = -0.291$, $N = 1239$

SLVQDTR pc2

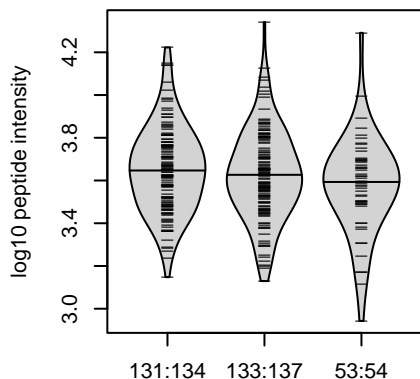
7:44157978:A:G_G
 $p = 3.5e-12$, $\beta = -0.275$, $N = 1217$

TQWIEVDTR pc2

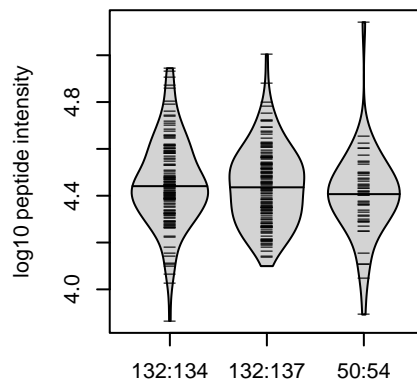
7:44157978:A:G_G
 $p = 2.5e-11$, $\beta = -0.26$, $N = 1252$

Q8IUX7 NP2

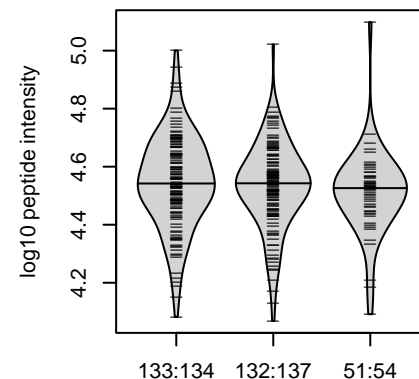
rs3217962
 $p = 0.0085$, $\beta = -0.198$, $N = 325$

VVNEECPTITR pc2

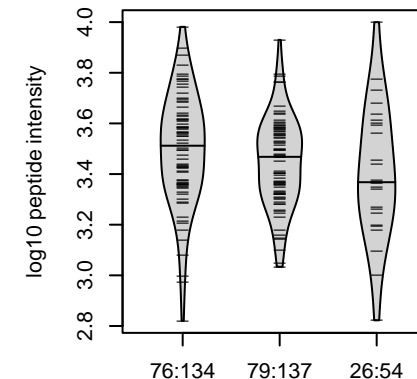
rs3217962
 $p = 0.0043$, $\beta = -0.218$, $N = 317$

ILNPGEYR pc2

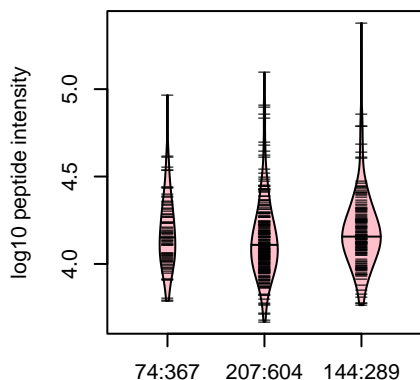
rs3217962
 $p = 0.011$, $\beta = -0.197$, $N = 314$

FTGVITQGR pc2

rs3217962
 $p = 0.014$, $\beta = -0.19$, $N = 316$

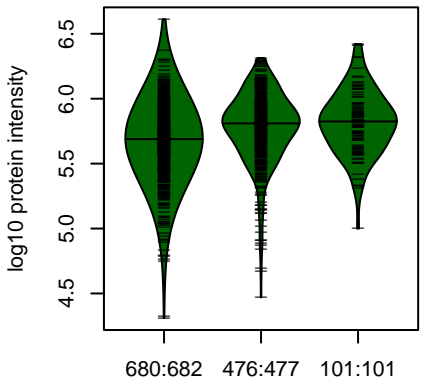
FPHESELPREWENNK pc4

rs3217962
 $p = 0.025$, $\beta = -0.234$, $N = 181$

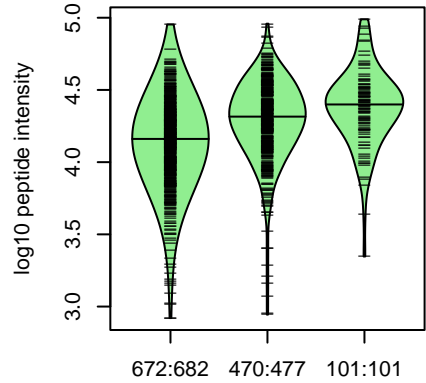
**VWPEPPEEK pc2
rs2537188 REF**

7:44157978:A:G_G
 $p = 2.6e-11$, $\text{model} = \text{REC}$, $N = 425$

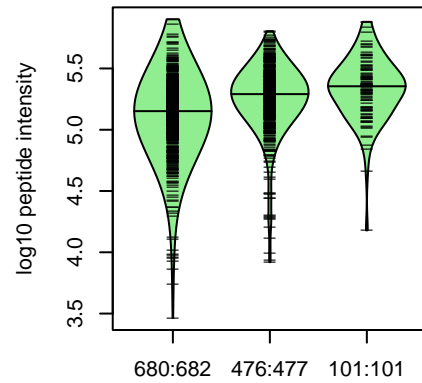
Locus: 174 (Sort: 200)
 Status: Not replicated
 80% power: No
 SNP: 7:44157978:A:G
 rsID: rs3217962
 UniProtID: Q8IUX7
 HGNC gene: AEBP1
 Type: Cis-pQTL

FCN1 [cis]

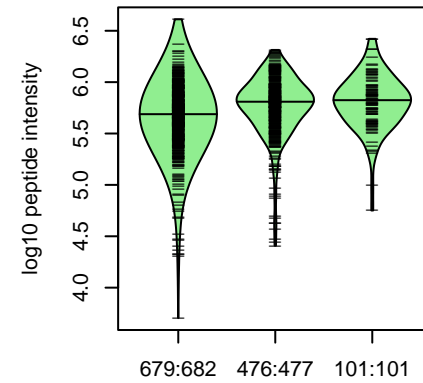
9:137843955:T:C_C
 $p = 6.4e-13$, $\beta = 0.313$, $N = 1257$

GDAGQSQSCATGPR pc2

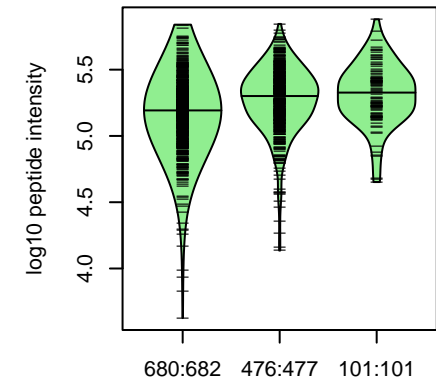
9:137843955:T:C_C
 $p = 1e-25$, $\beta = 0.452$, $N = 1243$

GEAGVIGER pc2

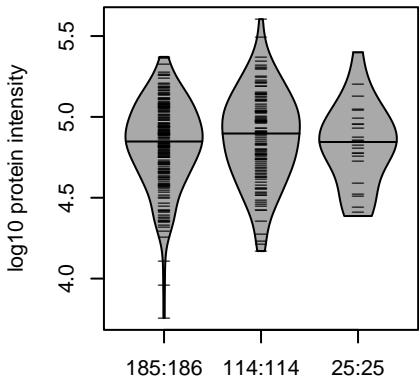
9:137843955:T:C_C
 $p = 1.4e-21$, $\beta = 0.412$, $N = 1257$

VVGLEGS DK pc2

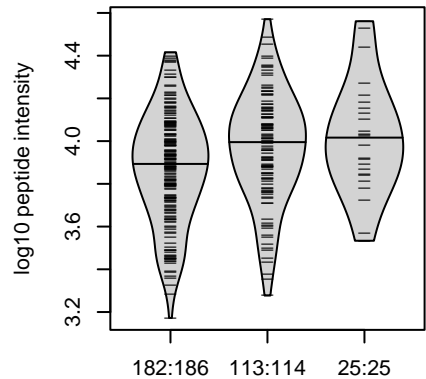
9:137843955:T:C_C
 $p = 1.2e-12$, $\beta = 0.309$, $N = 1256$

VDLVDFEGNHQFAK pc3

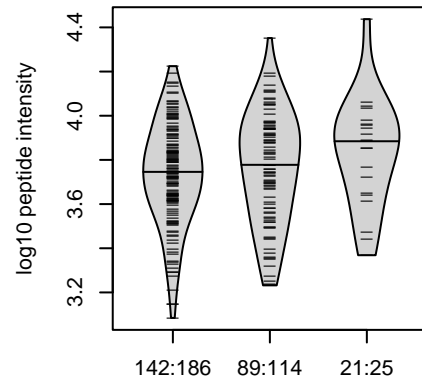
9:137843955:T:C_C
 $p = 2.7e-12$, $\beta = 0.304$, $N = 1257$

O00602 NP5

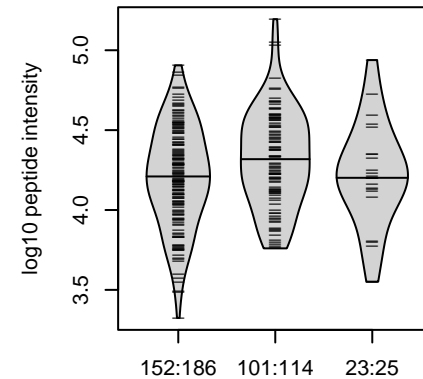
rs60008355
 $p = 0.46$, $\beta = 0.0634$, $N = 324$

GDAGQSQSCATGPR pc2

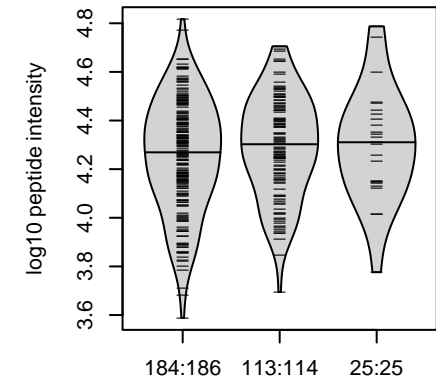
rs60008355
 $p = 0.00013$, $\beta = 0.328$, $N = 320$

RMDGSVDFYR pc2

rs60008355
 $p = 0.068$, $\beta = 0.175$, $N = 252$

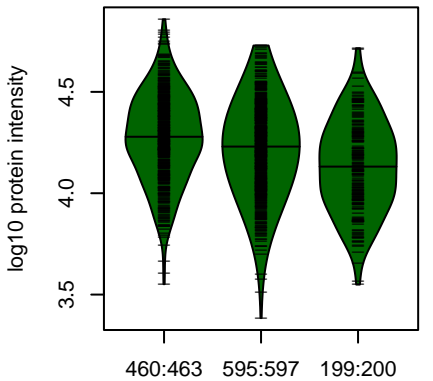
GEAGVIGER pc2

rs60008355
 $p = 0.11$, $\beta = 0.147$, $N = 276$

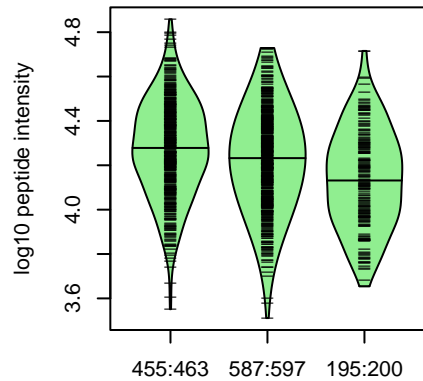
VDLVDFEGNHQFAK pc2

rs60008355
 $p = 0.11$, $\beta = 0.137$, $N = 322$

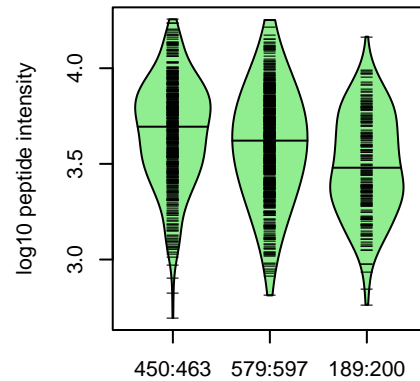
Locus: 175 (Sort: 201)
 Status: Not replicated
 80% power: No
 SNP: 9:137843955:T:C
 rsID: rs60008355
 UniProtID: O00602
 HGNC gene: FCN1
 Type: Cis-pQTL

HEG1 [cis]

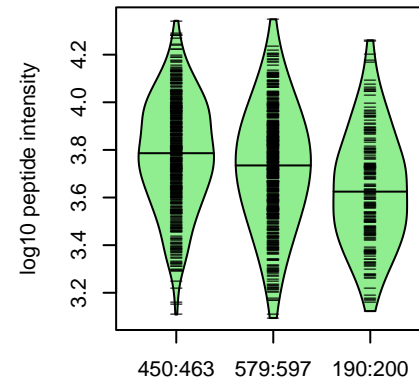
3:124763928:A:C_C
 $p = 1e-12$, $\beta = -0.286$, $N = 1254$

EGVMVQTSGK pc2

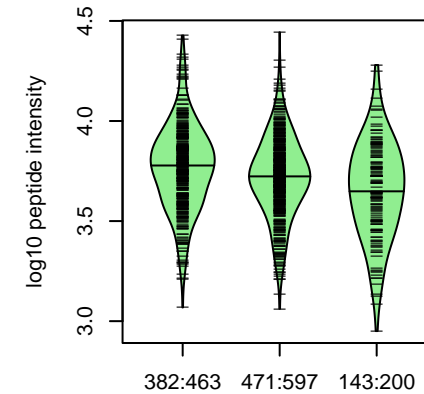
3:124763928:A:C_C
 $p = 3.3e-12$, $\beta = -0.281$, $N = 1237$

ALSLAPLAGAGLELQLER pc2

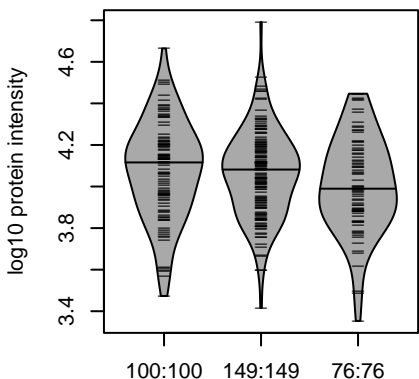
3:124763928:A:C_C
 $p = 4.5e-12$, $\beta = -0.283$, $N = 1218$

SGTASEMGTER pc2

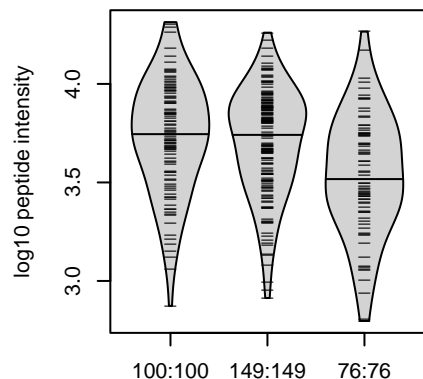
3:124763928:A:C_C
 $p = 8.2e-12$, $\beta = -0.279$, $N = 1219$

TMHVATVFTDGGPR pc3

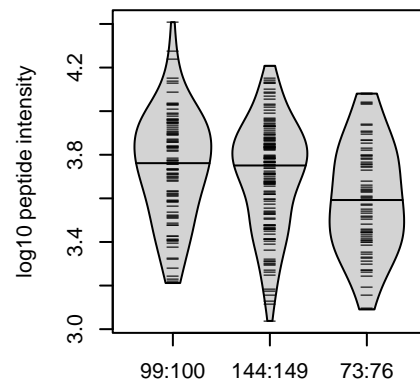
3:124763928:A:C_C
 $p = 1.7e-07$, $\beta = -0.239$, $N = 996$

Q9ULI3 NP2

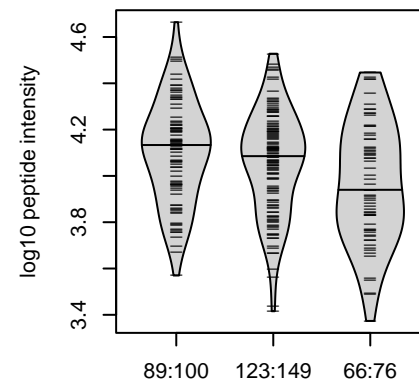
rs60601708
 $p = 0.029$, $\beta = -0.163$, $N = 325$

ALSLAPLAGAGLELQLER pc2

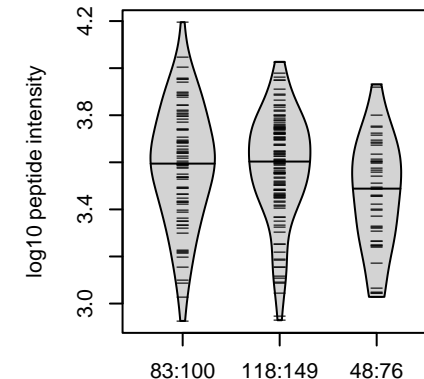
rs60601708
 $p = 2.1e-05$, $\beta = -0.314$, $N = 325$

SGTASEMGTER pc2

rs60601708
 $p = 0.00017$, $\beta = -0.282$, $N = 316$

EGVMVQTSGK pc2

rs60601708
 $p = 0.00063$, $\beta = -0.27$, $N = 278$

SLTVSLGPVSK pc2

rs60601708
 $p = 0.0034$, $\beta = -0.255$, $N = 249$

Locus: 176 (Sort: 202)

Status: Not replicated

80% power: No

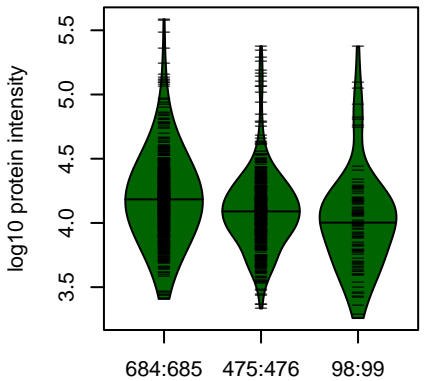
SNP: 3:124763928:A:C

rsID: rs60601708

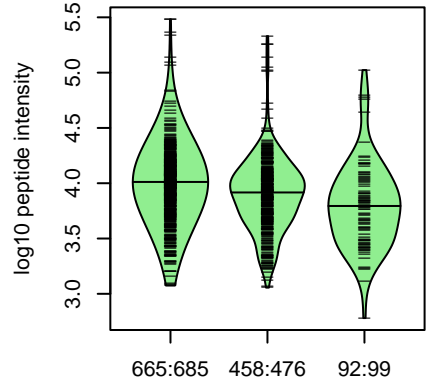
UniProtID: Q9ULI3

HGNC gene: HEG1

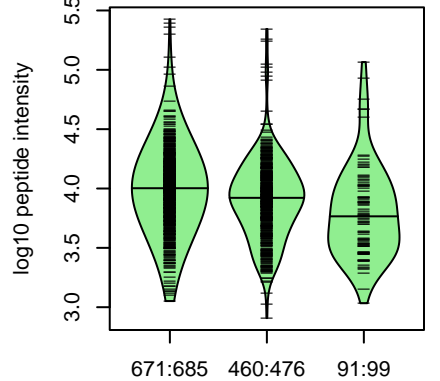
Type: Cis-pQTL

LIPC [cis]

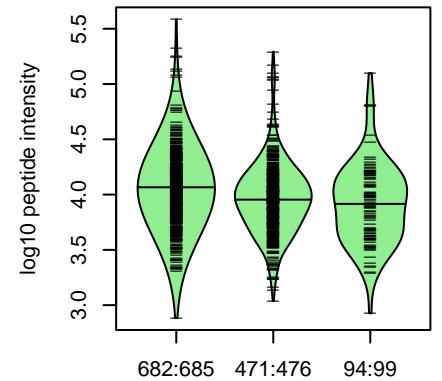
15:58723426:A:G_G
 $p = 1.1e-12$, $\beta = -0.311$, $N = 1257$

MTFCSENTDDLLLRPTQEK pc3 SQPAQPVNVGLVDWITLAHDHYTI AVR

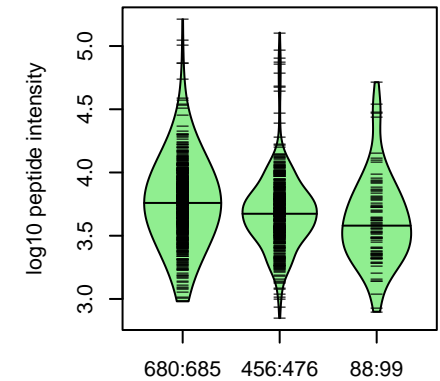
15:58723426:A:G_G
 $p = 4.6e-11$, $\beta = -0.295$, $N = 1215$



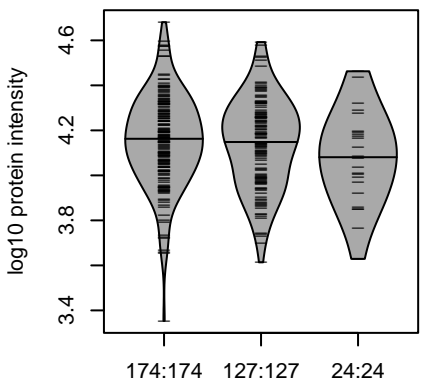
15:58723426:A:G_G
 $p = 1.8e-09$, $\beta = -0.27$, $N = 1222$

WLEESVQLSR pc2

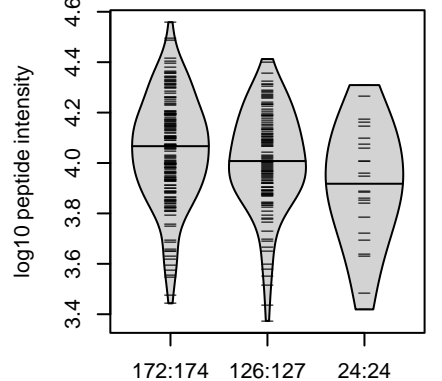
15:58723426:A:G_G
 $p = 2.8e-09$, $\beta = -0.263$, $N = 1247$

FLLFGETNQGQCIR pc2

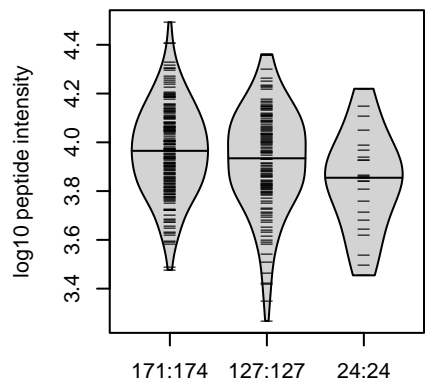
15:58723426:A:G_G
 $p = 8.7e-09$, $\beta = -0.259$, $N = 1224$

P11150 NP4

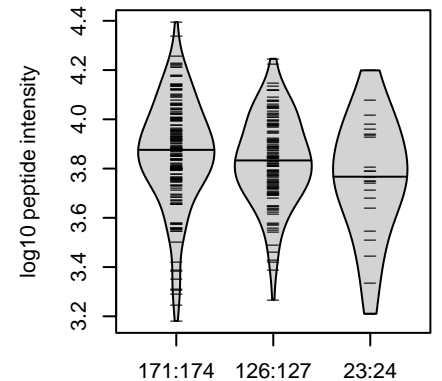
rs1077835
 $p = 0.021$, $\beta = -0.203$, $N = 325$

MTFCSENTDDLLLRPTQEK pc3 SQPAQPVNVGLVDWITLAHDHYTI AVR

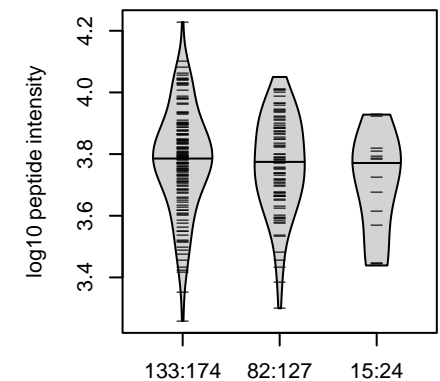
rs1077835
 $p = 0.00012$, $\beta = -0.333$, $N = 322$



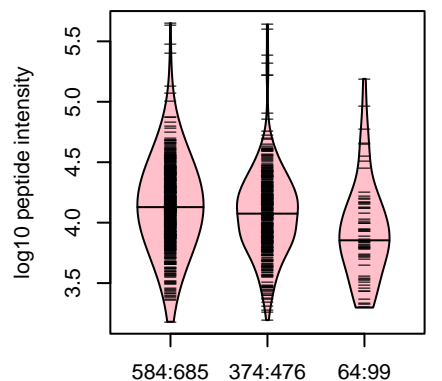
rs1077835
 $p = 0.00017$, $\beta = -0.325$, $N = 322$

FLLFGETNQGQCIR pc2

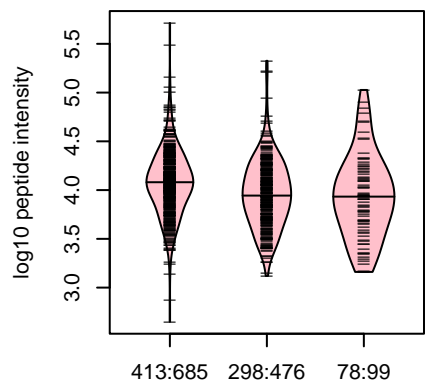
rs1077835
 $p = 0.0017$, $\beta = -0.275$, $N = 320$

SHVHLIGYSLGAHVSGFAGSSIGGTHK

rs1077835
 $p = 0.036$, $\beta = -0.219$, $N = 230$

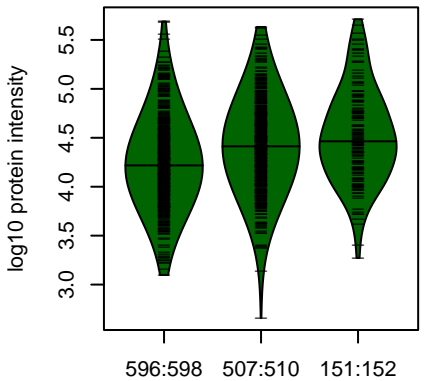
LSPDDANFVDIAHTFTR pc3 rs6083 REF

15:58723426:A:G_G
 $p = 4.7e-05$, $\text{model} = \text{DOM}$, $N = 1022$

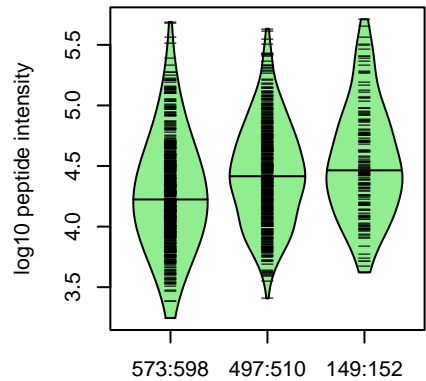
LSPDASFVDIAHTFTR pc3 rs6083 ALT

15:58723426:A:G_G
 $p = 0.00048$, $\text{model} = \text{DOM}$, $N = 789$

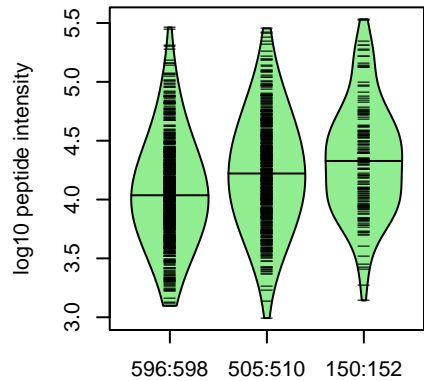
Locus: 177 (Sort: 203)
 Status: Not replicated
 80% power: No
 SNP: 15:58723426:A:G
 rsID: rs1077835
 UniProtID: P11150
 HGNC gene: LIPC
 Type: Cis-pQTL

CHI3L1 [cis]

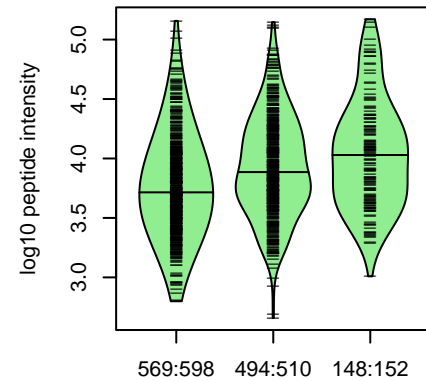
1:203120143:G:T_G
 $p = 1.2e-12$, $\beta = 0.289$, $N = 1254$

LVMGIPTFGR pc2

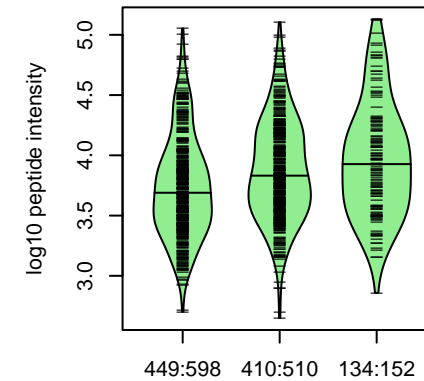
1:203120143:G:T_G
 $p = 1.2e-12$, $\beta = 0.292$, $N = 1219$

QLLSAALSAGK pc2

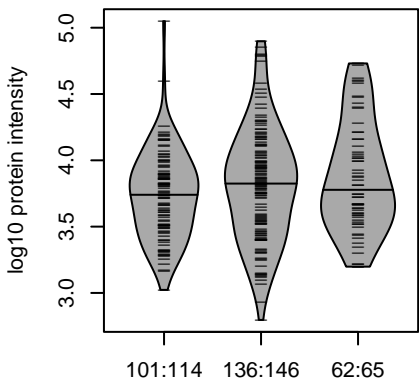
1:203120143:G:T_G
 $p = 5.9e-12$, $\beta = 0.28$, $N = 1251$

TLLSVGGWNFGSQR pc2

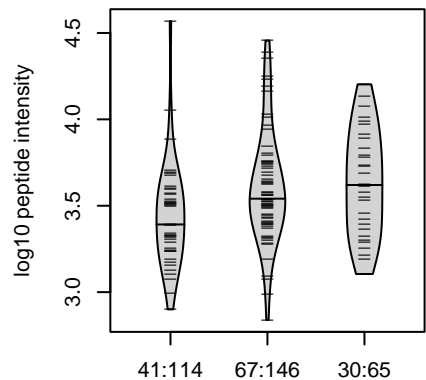
1:203120143:G:T_G
 $p = 9e-12$, $\beta = 0.282$, $N = 1211$

GNQWVGYYDDQESVK pc2

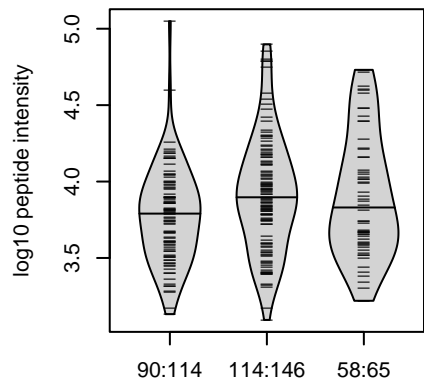
1:203120143:G:T_G
 $p = 3.4e-07$, $\beta = 0.229$, $N = 993$

P36222 NP1

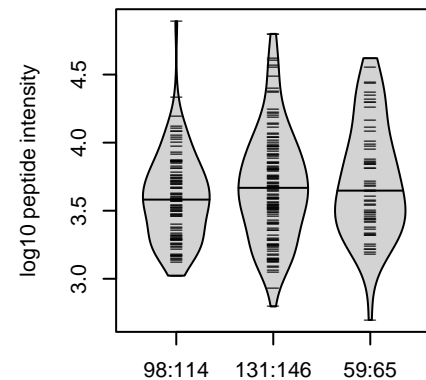
rs1845466
 $p = 0.0095$, $\beta = 0.201$, $N = 299$

TLLSVGGWNFGSQR pc2

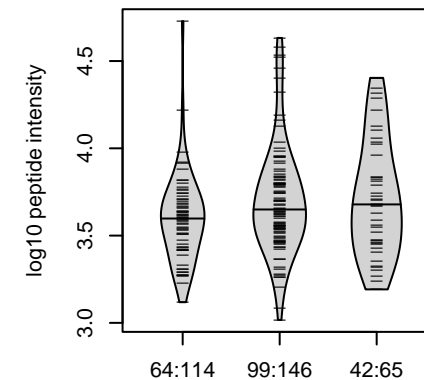
rs1845466
 $p = 0.0014$, $\beta = 0.366$, $N = 138$

LVMGIPTFGR pc2

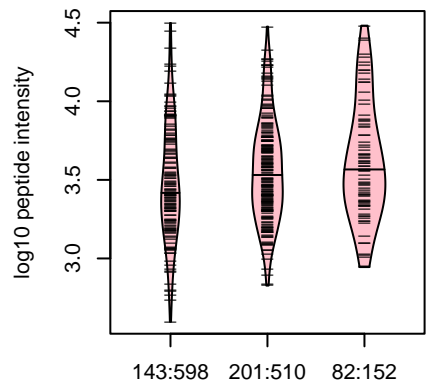
rs1845466
 $p = 0.0055$, $\beta = 0.226$, $N = 262$

QLLSAALSAGK pc2

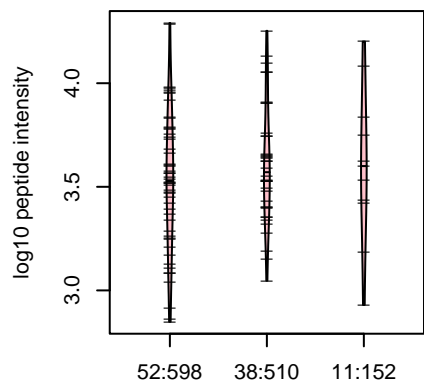
rs1845466
 $p = 0.0063$, $\beta = 0.218$, $N = 288$

ILGQQVPYATK pc2

rs1845466
 $p = 0.041$, $\beta = 0.196$, $N = 205$

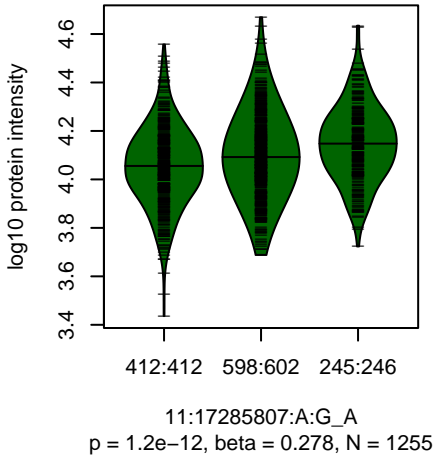
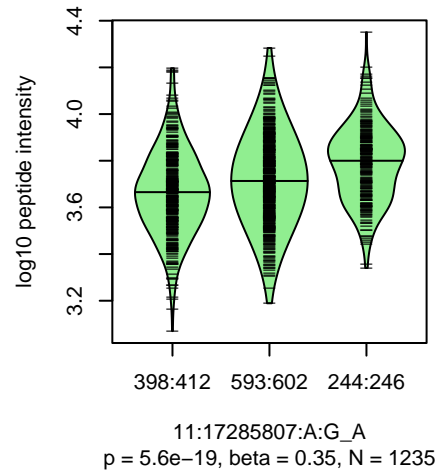
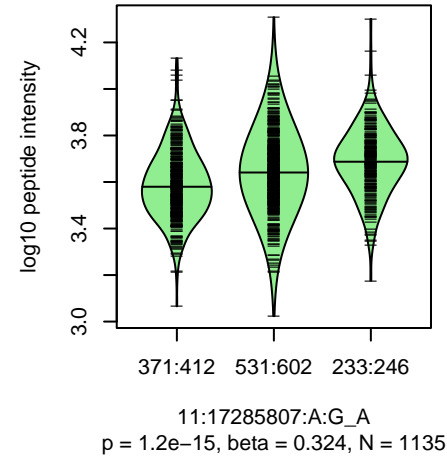
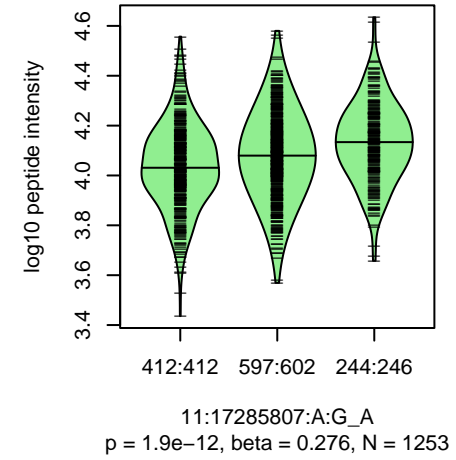
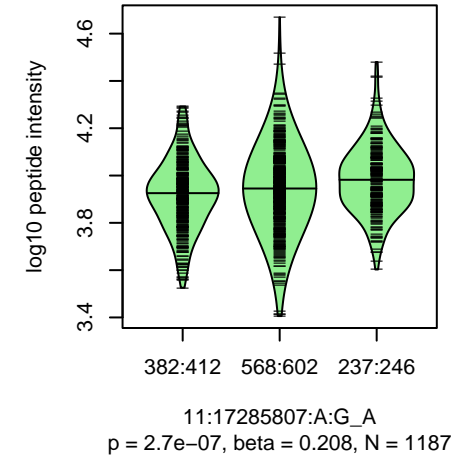
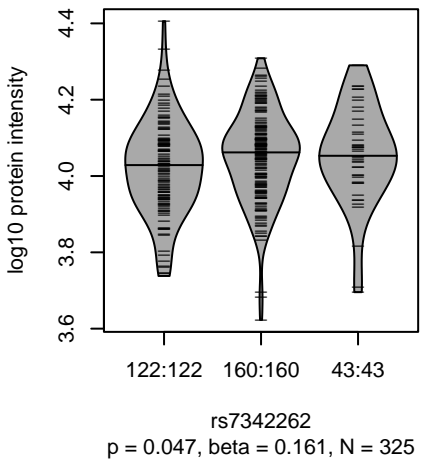
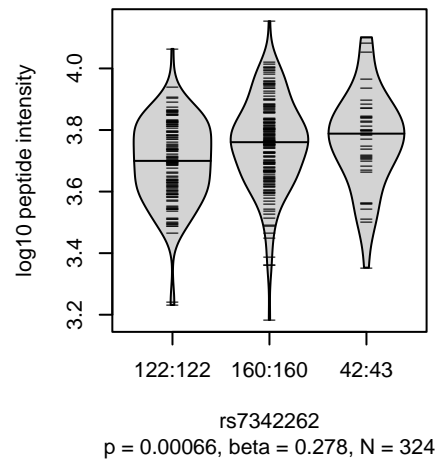
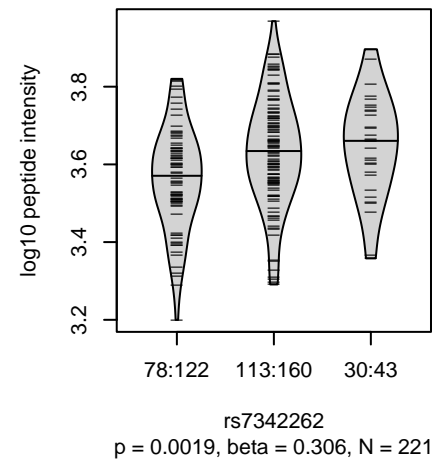
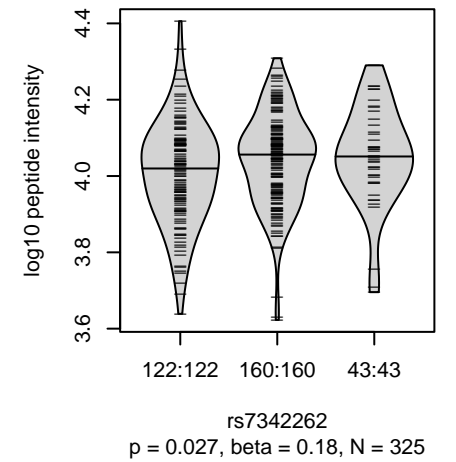
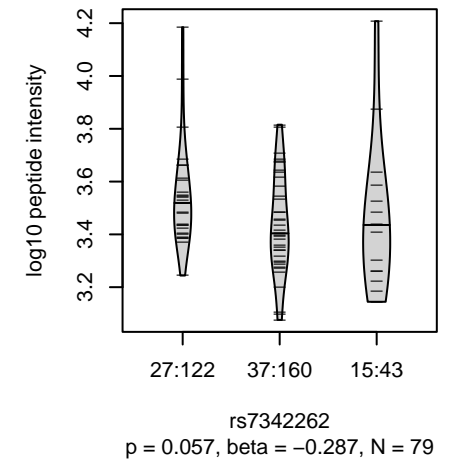
**THGFDGLDLAWLYPGRR pc3
rs880633 REF**

1:203120143:G:T_G
 $p = 1.6e-12$, model = REC, $N = 426$

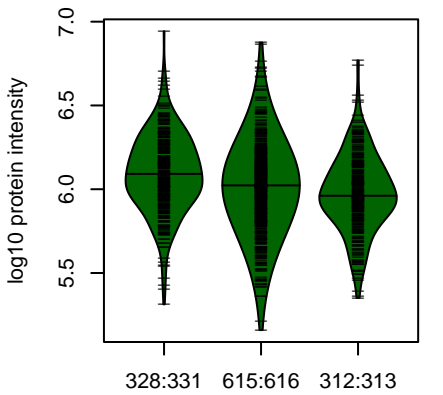
**THGFDGLDLAWLYPGRGDK pc3
rs880633 ALT**

1:203120143:G:T_G
 $p = 0.41$, model = REC, $N = 101$

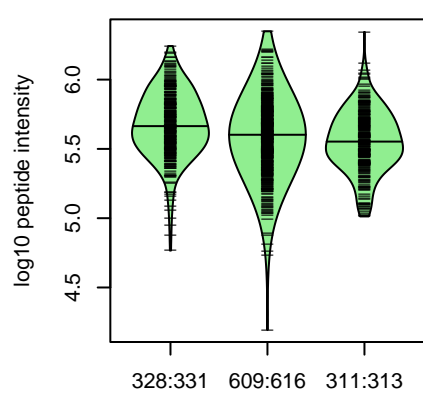
Locus: 178 (Sort: 204)
 Status: Not replicated
 80% power: No
 SNP: 1:203120143:G:T
 rsID: rs1845466
 UniProtID: P36222
 HGNC gene: CHI3L1
 Type: Cis-pQTL

NUCB2 [cis]**EYENIIALQENELK pc2****LEYHQVIQQMEQK pc3****LVTLEEFK pc2****FESTDLMLIK pc2****P80303 NP2****EYENIIALQENELK pc2****LEYHQVIQQMEQK pc3****LVTLEEFK pc2****ELDLVSHHVR pc3**

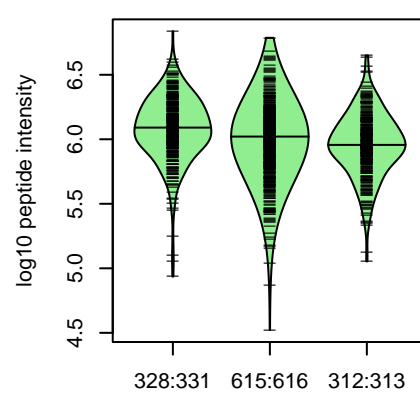
Locus: 179 (Sort: 205)
 Status: Not replicated
 80% power: No
 SNP: 11:17285807:A:G
 rsID: rs7342262
 UniProtID: P80303
 HGNC gene: NUCB2
 Type: Cis-pQTL

ITIH4 [trans]

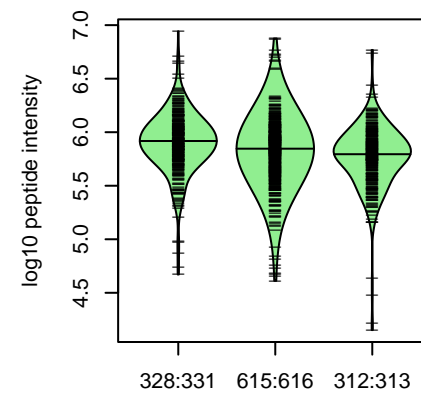
4:187139939:A:G_A
 $p = 1.2e-12$, $\beta = -0.277$, $N = 1255$

NVHSGSTFFK pc2

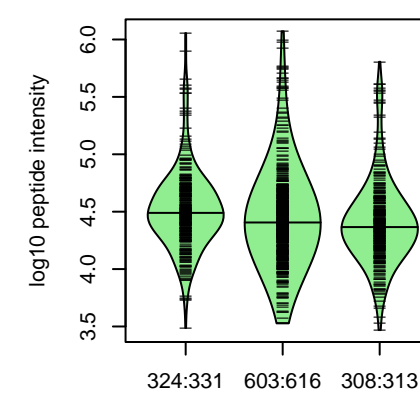
4:187139939:A:G_A
 $p = 2.6e-13$, $\beta = -0.285$, $N = 1248$

YYLQGAK pc2

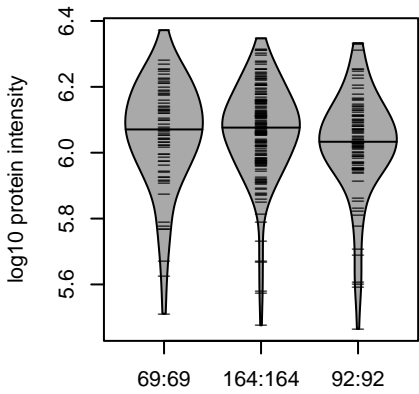
4:187139939:A:G_A
 $p = 9.8e-13$, $\beta = -0.278$, $N = 1255$

PEASFSPR pc2

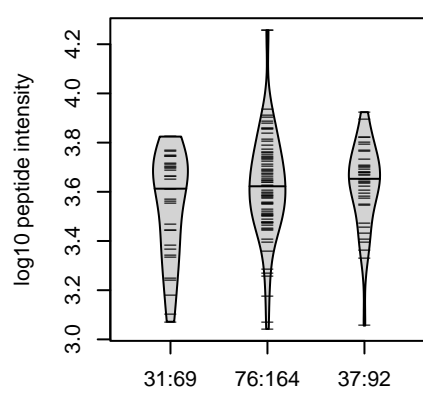
4:187139939:A:G_A
 $p = 1.9e-12$, $\beta = -0.275$, $N = 1255$

IPKPEASFSPR pc3

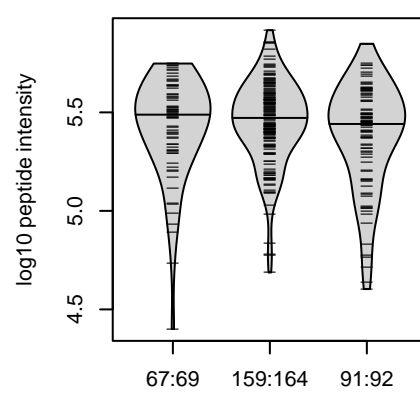
4:187139939:A:G_A
 $p = 1.6e-06$, $\beta = -0.189$, $N = 1235$

Q14624 NP3

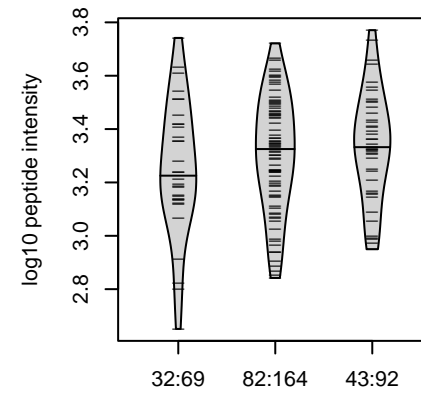
rs12331618
 $p = 0.2$, $\beta = -0.102$, $N = 325$

VTIGLLFDWGR pc2

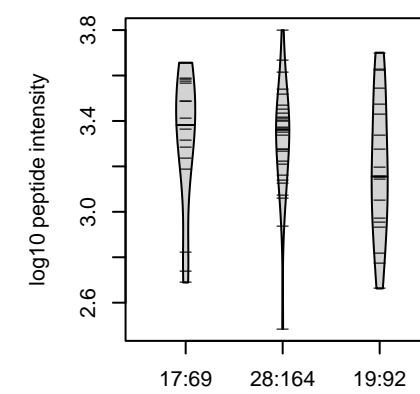
rs12331618
 $p = 0.1$, $\beta = 0.193$, $N = 144$

NVVFVIDK pc2

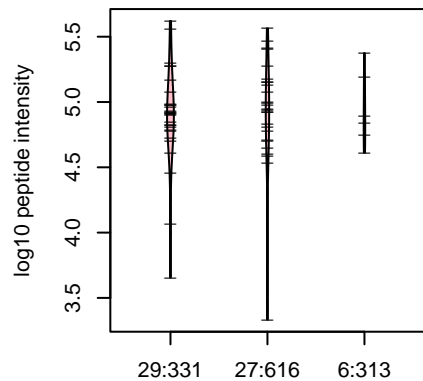
rs12331618
 $p = 0.11$, $\beta = -0.128$, $N = 317$

WKETLFSVMPGLK pc2

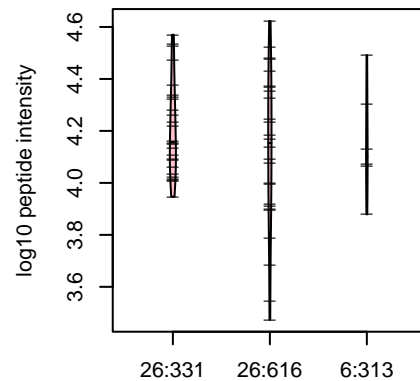
rs12331618
 $p = 0.11$, $\beta = 0.182$, $N = 157$

LQDRGPDVLTATVSGK pc2

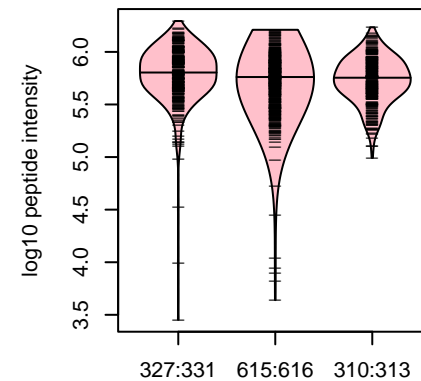
rs12331618
 $p = 0.11$, $\beta = -0.252$, $N = 64$

**LLGLPAPPDVPDHAAYHPFR pc4
rs2276814 ALT**

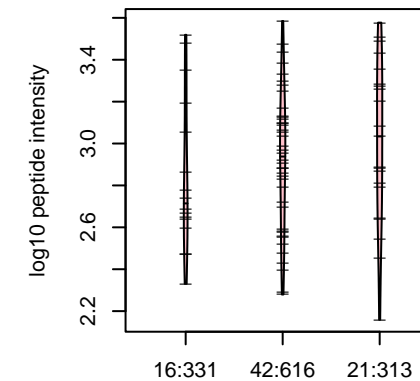
4:187139939:A:G_A
 $p = 0.00052$, $\text{model} = \text{REC}$, $N = 62$

**LLGLPAPPDVPDHAAYHPFR pc4
rs2276814 ALT**

4:187139939:A:G_A
 $p = 0.0019$, $\text{model} = \text{REC}$, $N = 58$

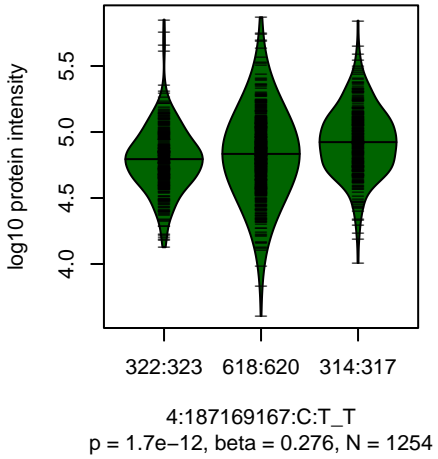
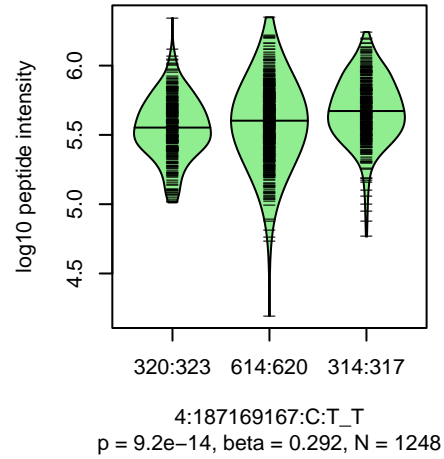
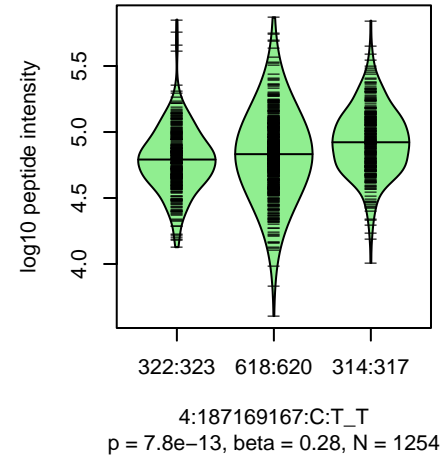
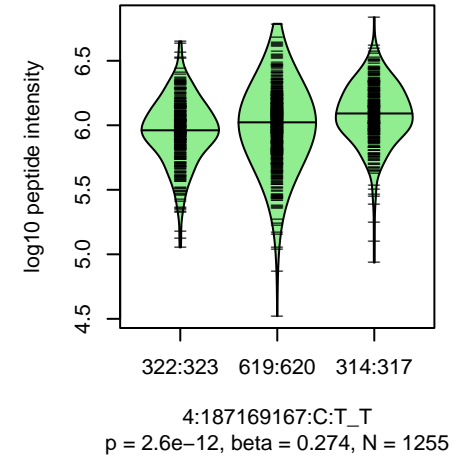
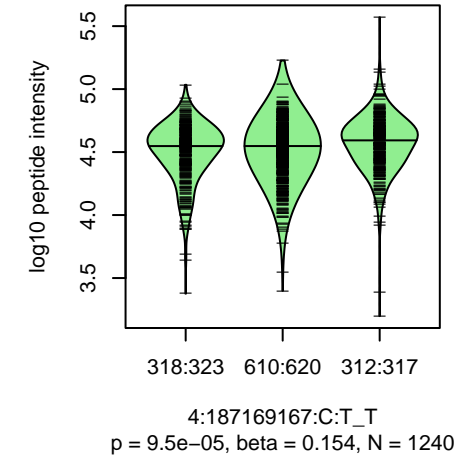
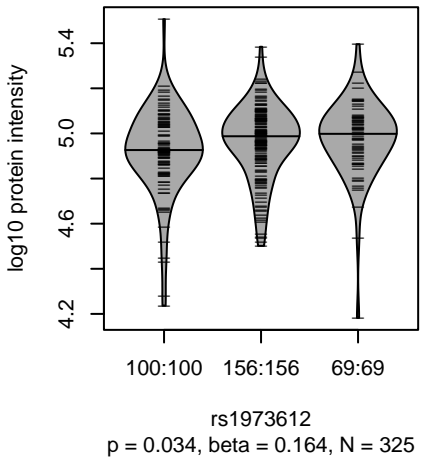
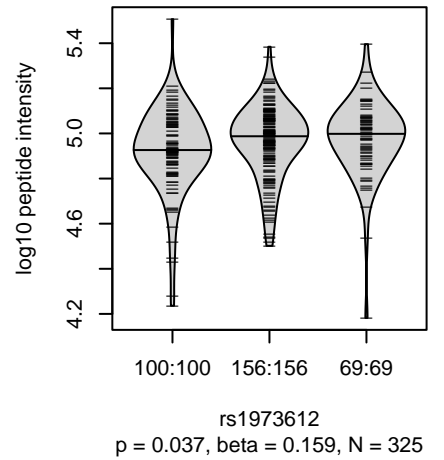
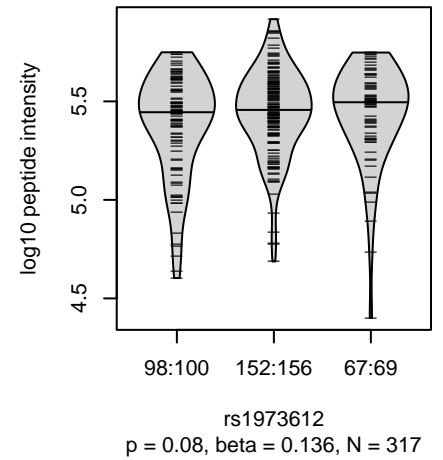
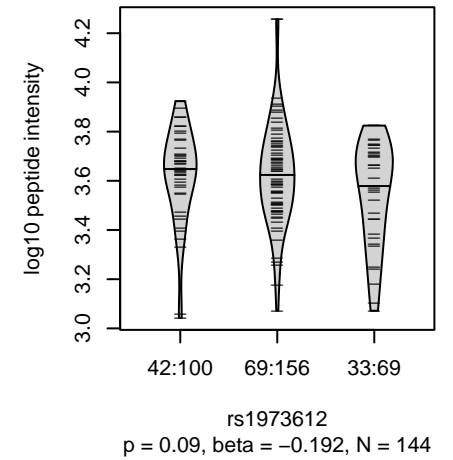
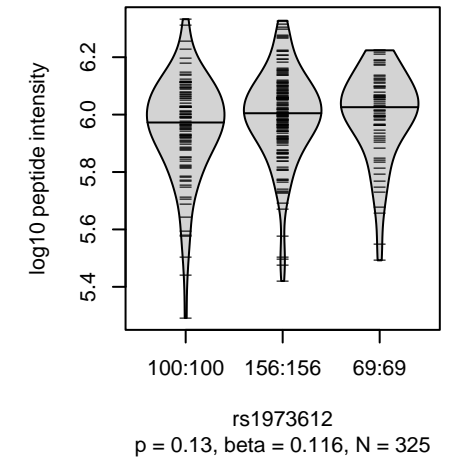
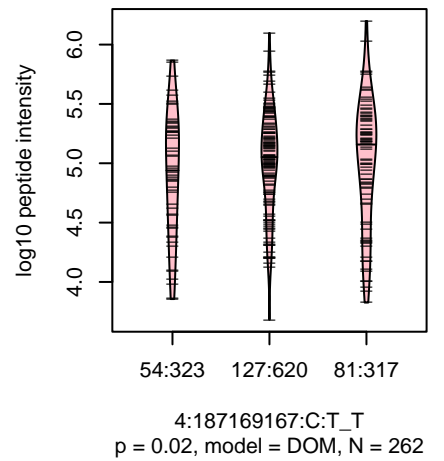
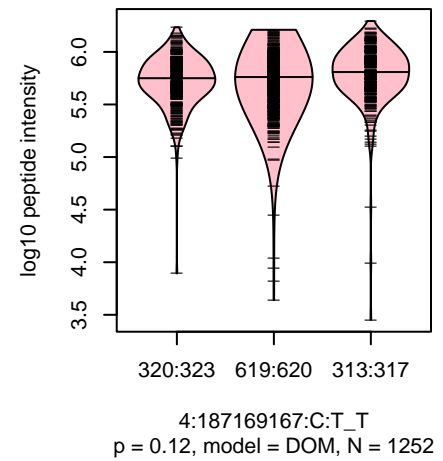
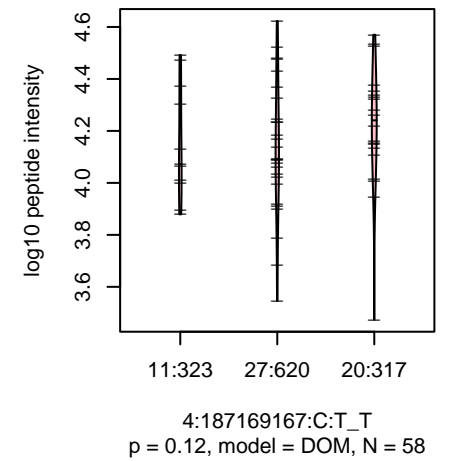
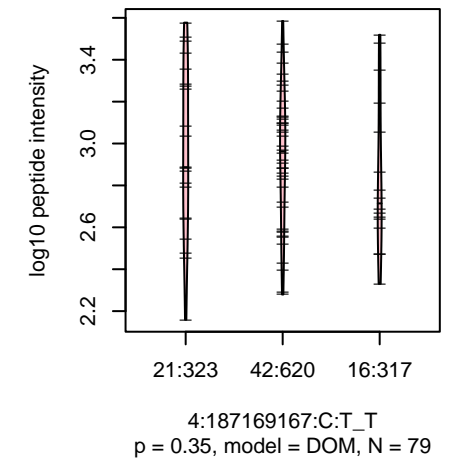
**QLGLPAPPDVPDHAAYHPFR pc4
rs2276814 REF**

4:187139939:A:G_A
 $p = 0.22$, $\text{model} = \text{REC}$, $N = 1252$

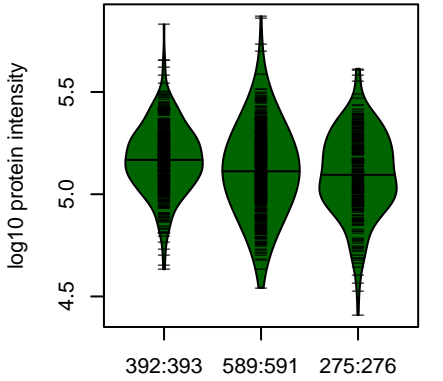
**AFITNFSMIIDGMTYPGIK pc3
rs13072536 REF**

4:187139939:A:G_A
 $p = 0.24$, $\text{model} = \text{REC}$, $N = 79$

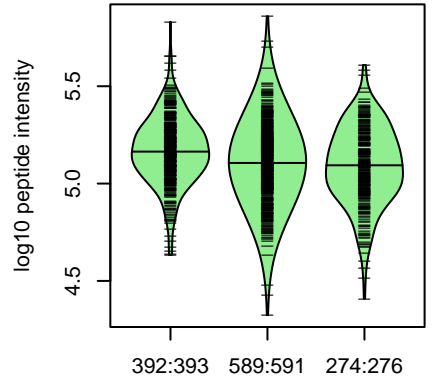
Locus: 180 (Sort: 206)
 Status: Not replicated
 80% power: No
 SNP: 4:187139939:A:G
 rsID: rs12331618
 UniProtID: Q14624
 HGNC gene: ITIH4
 Type: Trans-pQTL

ITIH4 [trans]**NVHSGSTFFK pc2****PGLDHTASFSPR pc3****YYLQGAK pc2****ANTVQEATFQMELPK pc2****B7ZKJ8 NP3****PGLDHTASFSPR pc3****NVVFVIDK pc2****VTIGLLFWDGR pc2****YYLQGAK pc2****LLGLPAPPDVPDHAAYHPFR pc3
rs2276814 ALT****QLGLPAPPDVPDHAAYHPFR pc4
rs2276814 REF****LLGLPAPPDVPDHAAYHPFR pc4
rs2276814 ALT****AFITNFSMIIDGMTYPGIK pc3
rs13072536 REF**

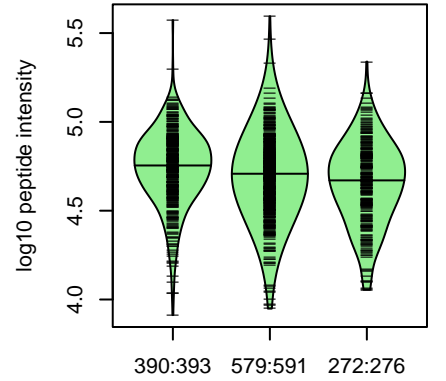
Locus: 180 (Sort: 207)
Status: Not replicated
80% power: No
SNP: 4:187169167:C:T
rsID: rs1973612
UniProtID: B7ZKJ8
HGNC gene: ITIH4
Type: Trans-pQTL

ORM2 [cis]

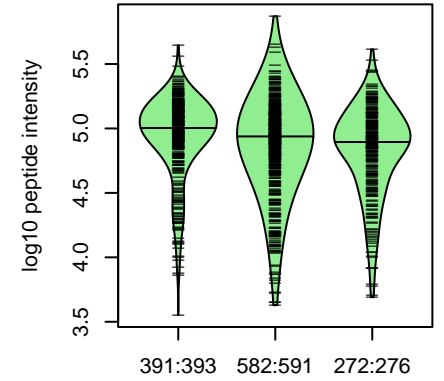
9:117080970:G:C_C
 $p = 1.3e-12$, $\beta = -0.273$, $N = 1256$

TLMFGSYLDDEK pc2

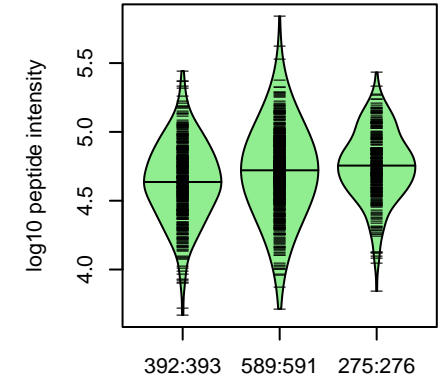
9:117080970:G:C_C
 $p = 1.3e-13$, $\beta = -0.285$, $N = 1255$

NWGLSFYADKPETTK pc3

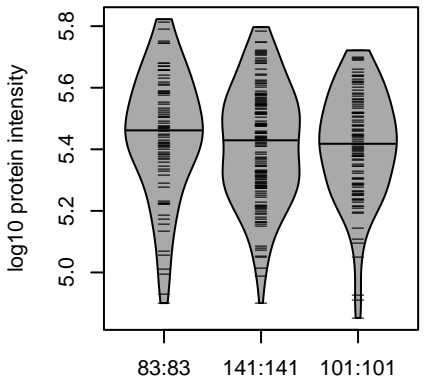
9:117080970:G:C_C
 $p = 7.2e-10$, $\beta = -0.239$, $N = 1241$

SDVMYTDWK pc2

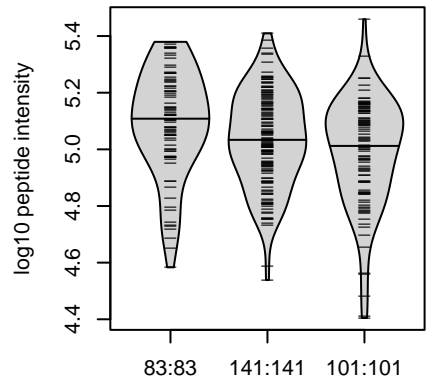
9:117080970:G:C_C
 $p = 1.9e-08$, $\beta = -0.218$, $N = 1245$

WFYIASAFR pc2

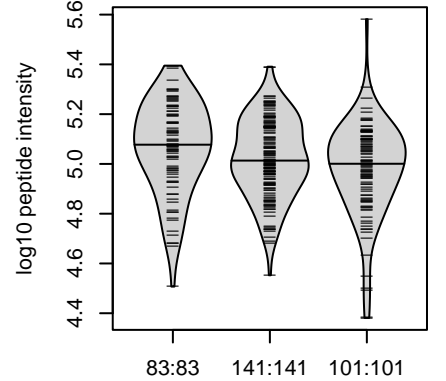
9:117080970:G:C_C
 $p = 1.9e-07$, $\beta = 0.201$, $N = 1256$

P19652 NP2

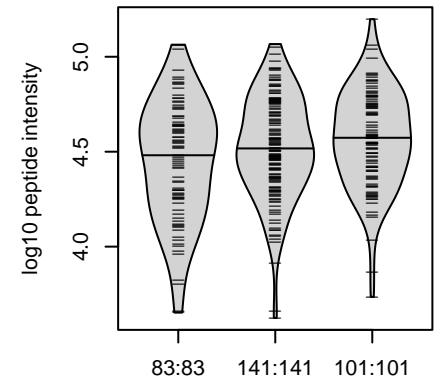
rs2787335
 $p = 0.52$, $\beta = -0.0476$, $N = 325$

TLMFGSYLDDEK pc2

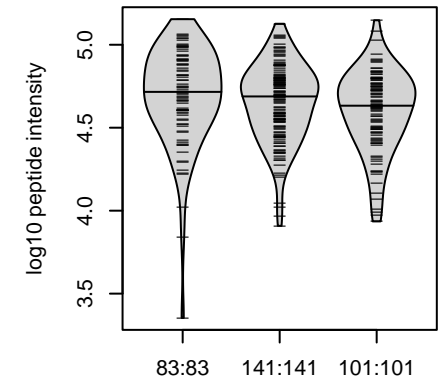
rs2787335
 $p = 8.4e-05$, $\beta = -0.284$, $N = 325$

SDVMYTDWK pc2

rs2787335
 $p = 0.00066$, $\beta = -0.247$, $N = 325$

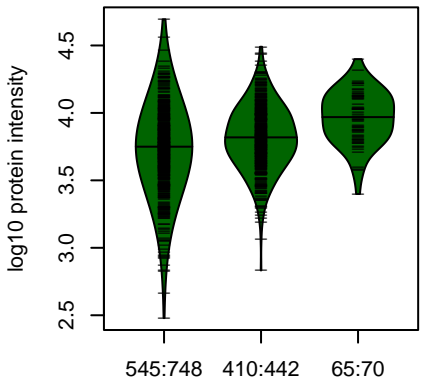
WFYIASAFR pc2

rs2787335
 $p = 7e-04$, $\beta = 0.246$, $N = 325$

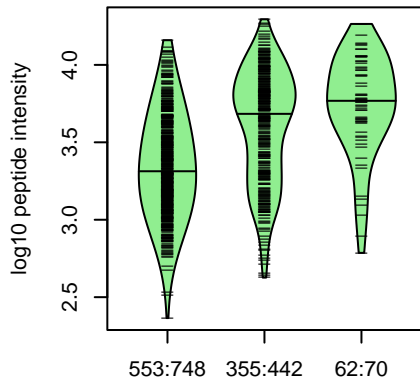
EHVAHLLFLR pc3

rs2787335
 $p = 0.0024$, $\beta = -0.221$, $N = 325$

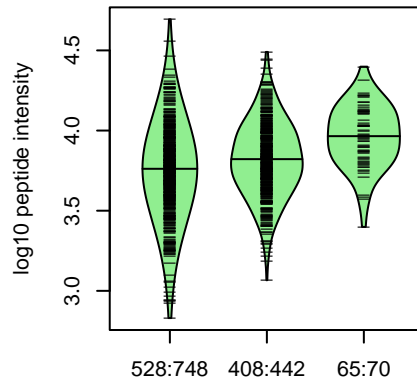
Locus: 181 (Sort: 208)
 Status: Not replicated
 80% power: No
 SNP: 9:117080970:G:C
 rsID: rs2787335
 UniProtID: P19652
 HGNC gene: ORM2
 Type: Cis-pQTL

HLA-C [cis]

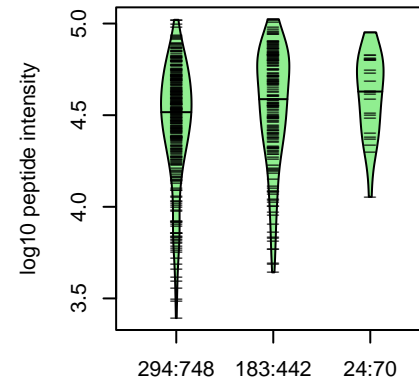
6:31328756:G:A_G
 $p = 1.4e-12$, $\beta = 0.356$, $N = 1020$

SWTAADTAAQITQR pc2

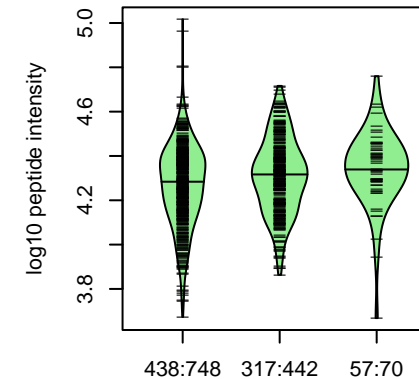
6:31328756:G:A_G
 $p = 7.2e-35$, $\beta = 0.616$, $N = 970$

THVTHHPLSDHEATLR pc4

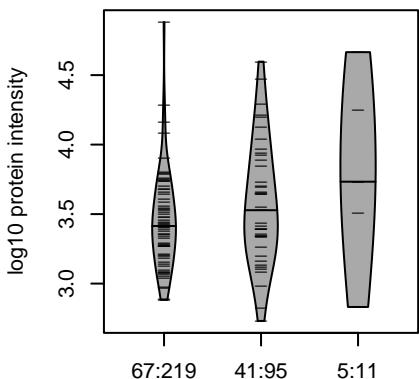
6:31328756:G:A_G
 $p = 3.5e-11$, $\beta = 0.335$, $N = 1001$

DYIALNEDLR pc2

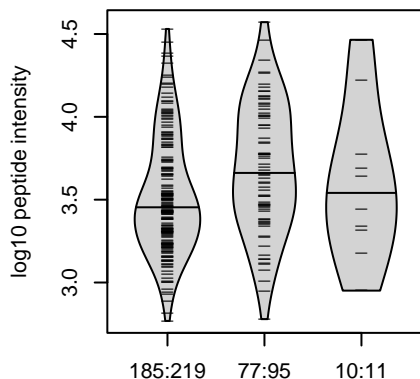
6:31328756:G:A_G
 $p = 1.9e-05$, $\beta = 0.32$, $N = 501$

FDSAASPR pc2

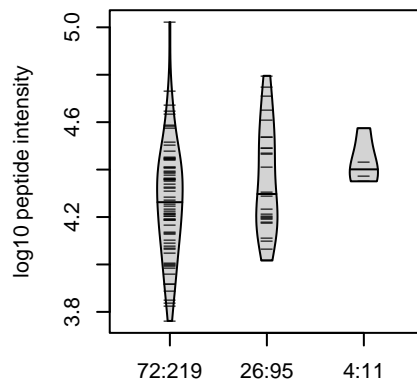
6:31328756:G:A_G
 $p = 7.9e-05$, $\beta = 0.22$, $N = 812$

P10321 NP1

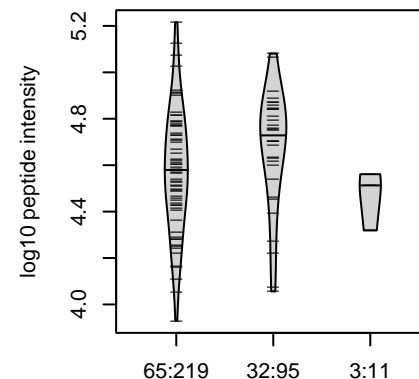
rs9266289
 $p = 0.85$, $\beta = -0.0292$, $N = 113$

SWTAADTAAQITQR pc2

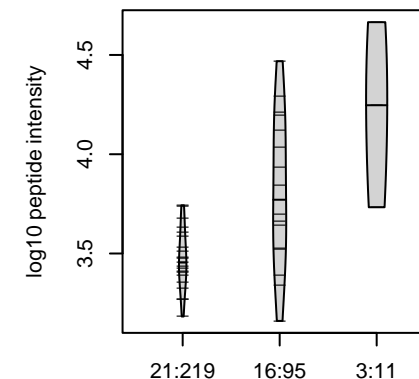
rs9266289
 $p = 0.0014$, $\beta = 0.345$, $N = 272$

FDSAASPR pc2

rs9266289
 $p = 0.18$, $\beta = 0.236$, $N = 102$

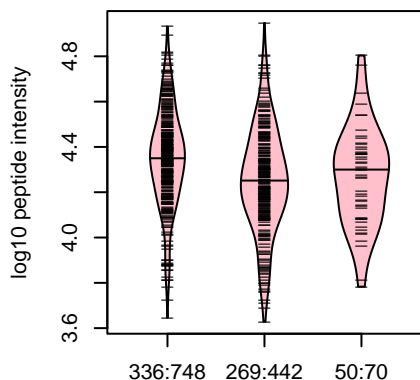
DYIALNEDLR pc2

rs9266289
 $p = 0.34$, $\beta = 0.169$, $N = 100$

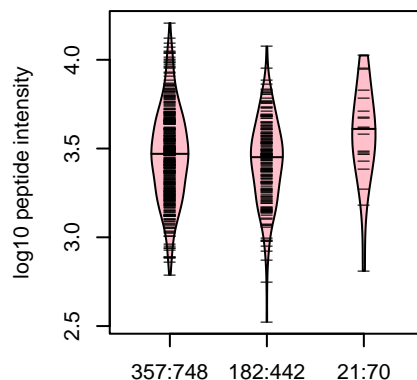
GYDQSAYDGK pc2

rs9266289
 $p = 0.35$, $\beta = 0.22$, $N = 40$

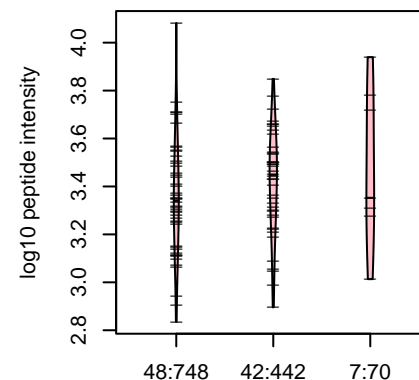
Locus: 182 (Sort: 209)
 Status: Not replicated
 80% power: No
 SNP: 6:31328756:G:A
 rsID: rs9266289
 UniProtID: P10321
 HGNC gene: HLA-C
 Type: Cis-pQTL

**FISVGYVDDTQFVR pc2
rs1050437 REF**

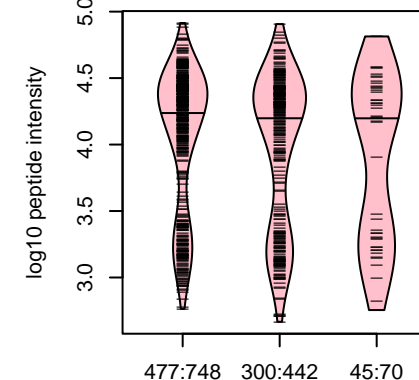
6:31328756:G:A_G
 $p = 1.5e-09$, model = REC, $N = 655$

**AYLEGCVEWLR pc2
rs1050686 REF**

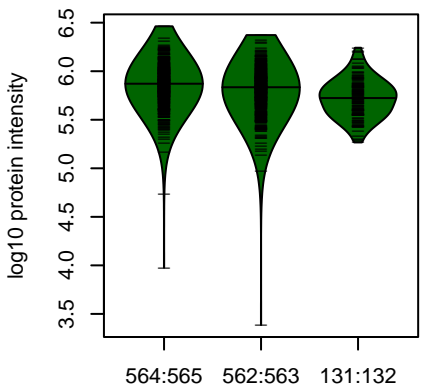
6:31328756:G:A_G
 $p = 0.0047$, model = REC, $N = 560$

**AYLEGCVEWLR pc3
rs1050686 REF**

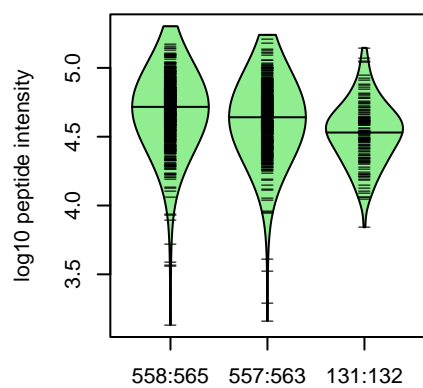
6:31328756:G:A_G
 $p = 0.041$, model = REC, $N = 97$

**WAAVVVPSGQEQR pc2
rs707908 REF**

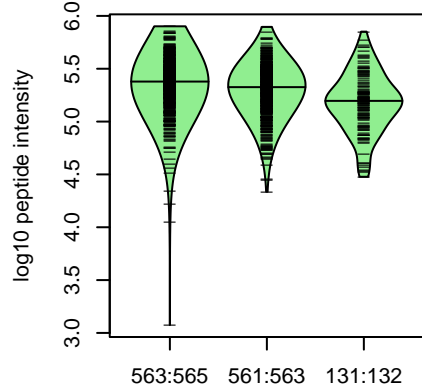
6:31328756:G:A_G
 $p = 0.21$, model = REC, $N = 822$

ITLN1 [cis]

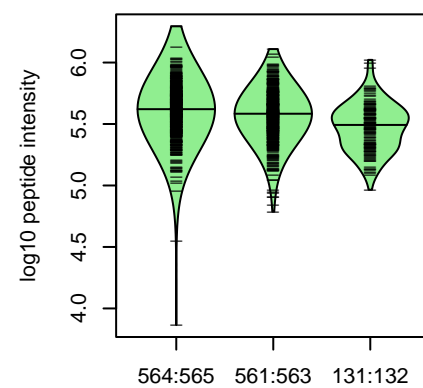
1:160850936:T:C_T
 $p = 1.4e-12$, $\beta = -0.299$, $N = 1257$

WSSQQGSK pc2

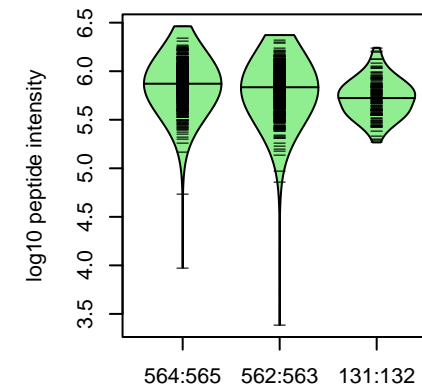
1:160850936:T:C_T
 $p = 4.5e-15$, $\beta = -0.331$, $N = 1246$

NPGYYDIQAK pc2

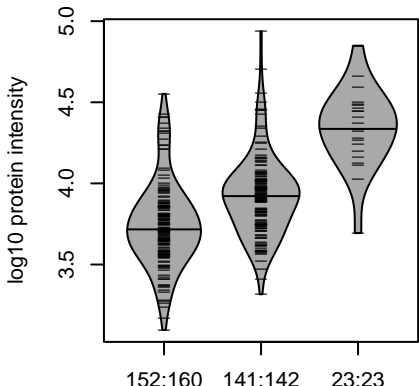
1:160850936:T:C_T
 $p = 2.3e-14$, $\beta = -0.322$, $N = 1255$

AANALCAGMR pc2

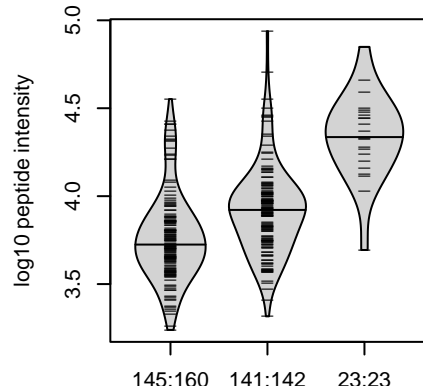
1:160850936:T:C_T
 $p = 3e-13$, $\beta = -0.308$, $N = 1256$

EFTAGFVQFR pc2

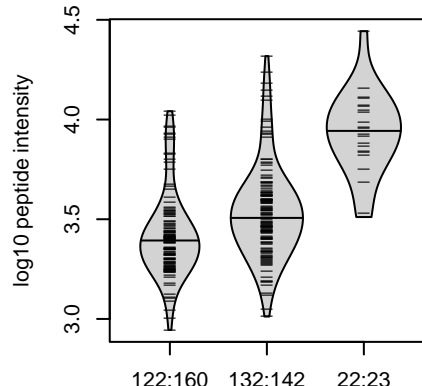
1:160850936:T:C_T
 $p = 1.4e-12$, $\beta = -0.299$, $N = 1257$

Q8WWA0 NP5

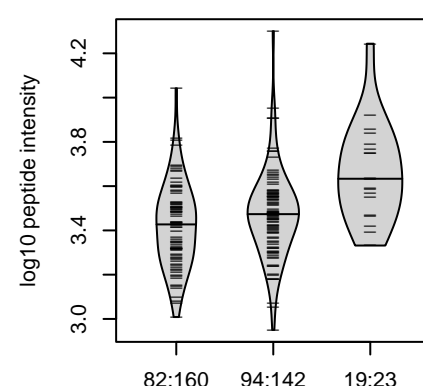
rs2236515
 $p = 1.9e-22$, $\beta = 0.82$, $N = 316$

EFTAGFVQFR pc2

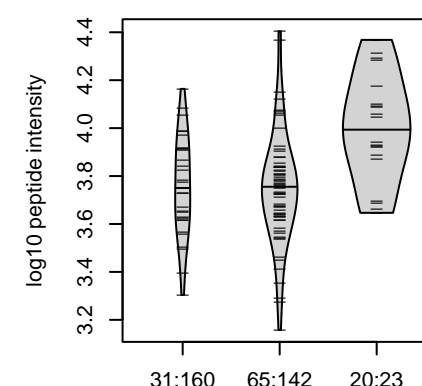
rs2236515
 $p = 1.5e-20$, $\beta = 0.783$, $N = 309$

NPGYYDIQAK pc2

rs2236515
 $p = 3.2e-15$, $\beta = 0.709$, $N = 276$

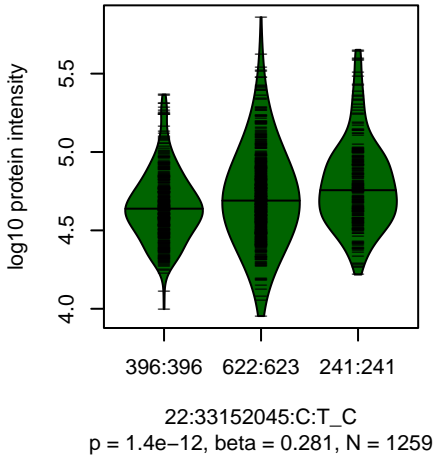
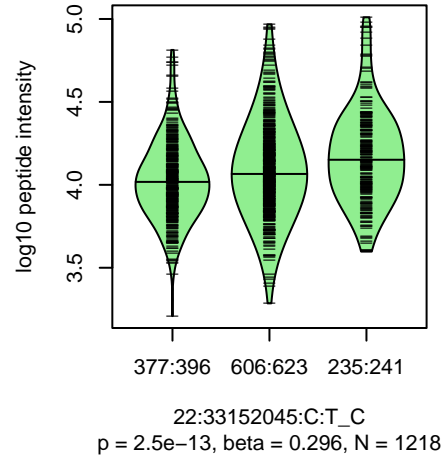
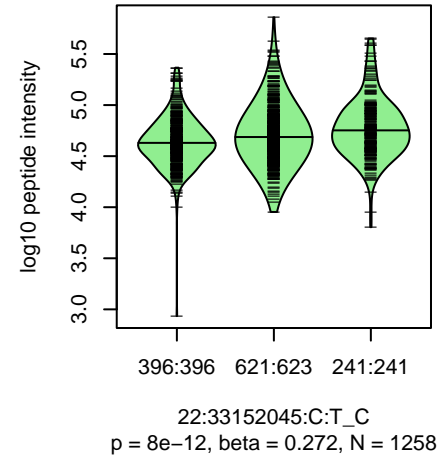
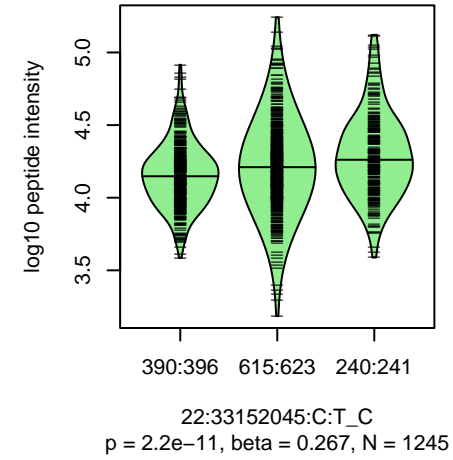
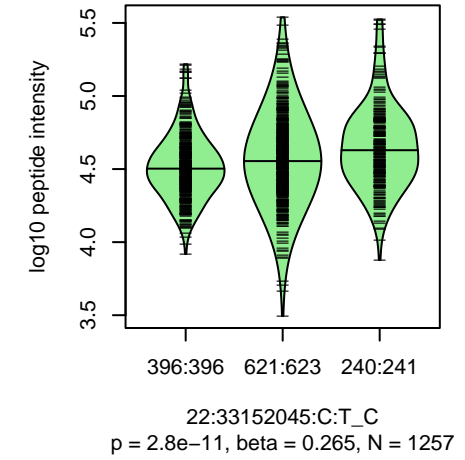
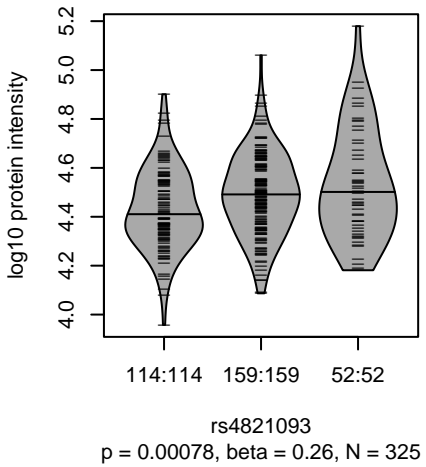
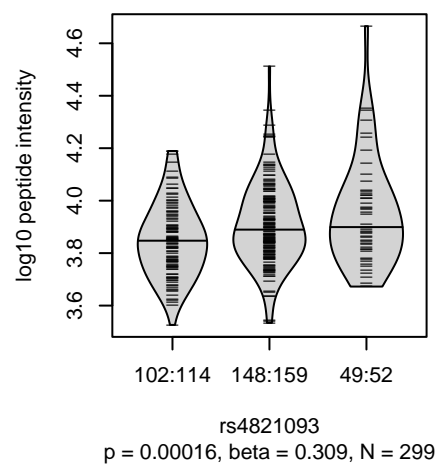
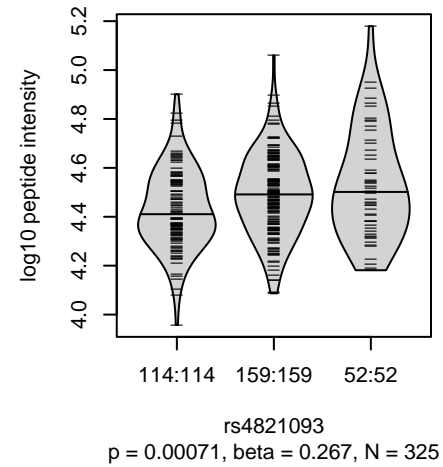
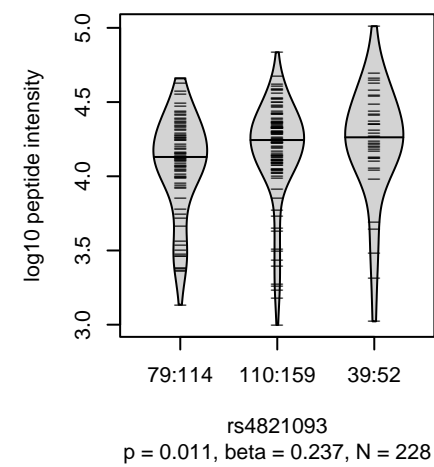
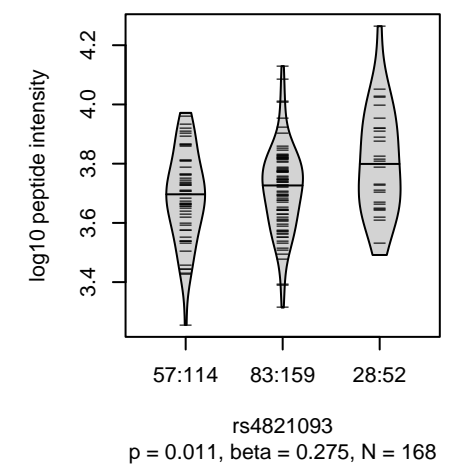
EWTCSSPSLPR pc2

rs2236515
 $p = 6.1e-06$, $\beta = 0.482$, $N = 195$

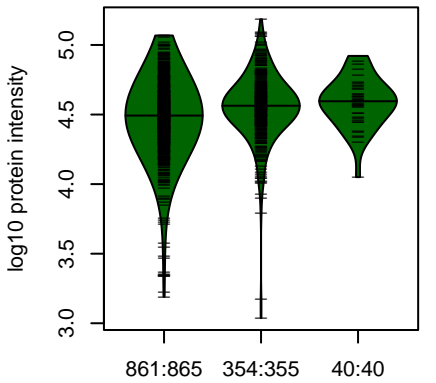
AANALCAGMR pc2

rs2236515
 $p = 0.01$, $\beta = 0.351$, $N = 116$

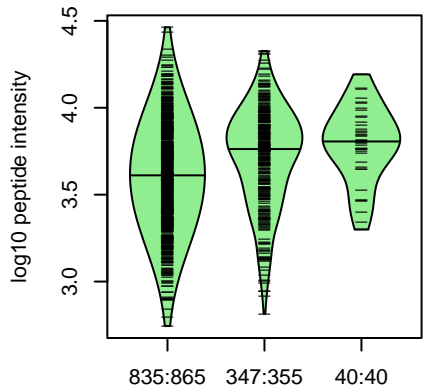
Locus: 183 (Sort: 210)
 Status: Not replicated
 80% power: No
 SNP: 1:160850936:T:C
 rsID: rs2236515
 UniProtID: Q8WWA0
 HGNC gene: ITLN1
 Type: Cis-pQTL

TIMP3 [cis]**YHLGCNCK pc2****SCYYLPCFVTSK pc2****MPHVQYIHTEASESLCGLK pc4****EGPFGTLVYTIK pc2****P35625 NP4****MPHVQYIHTEASESLCGLK pc4****SCYYLPCFVTSK pc2****EGPFGTLVYTIK pc2****MYTGLCNFVER pc2**

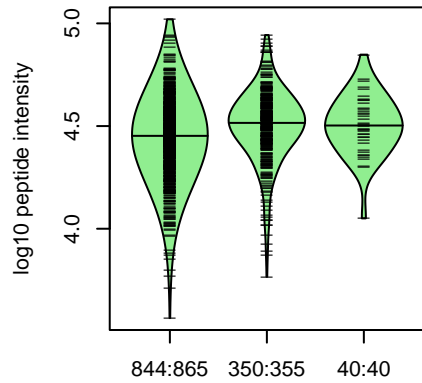
Locus: 184 (Sort: 211)
 Status: Not replicated
 80% power: No
 SNP: 22:33152045:C:T
 rsID: rs4821093
 UniProtID: P35625
 HGNC gene: TIMP3
 Type: Cis-pQTL

HLA-B [cis]

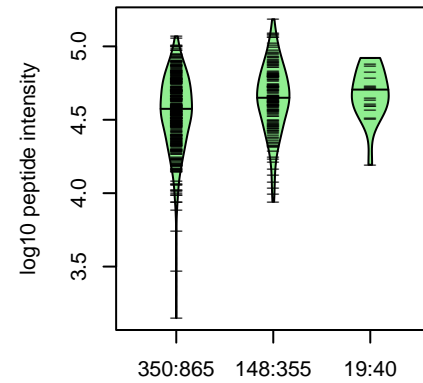
6:31105633:C:T_C
 $p = 1.4e-12$, $\beta = 0.366$, $N = 1255$

SWTAADTAAQITQR pc2

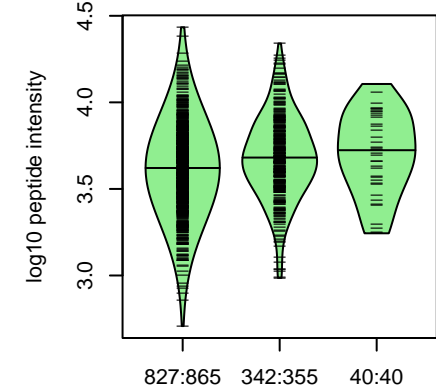
6:31105633:C:T_C
 $p = 2.5e-15$, $\beta = 0.411$, $N = 1222$

FSDAASPR pc2

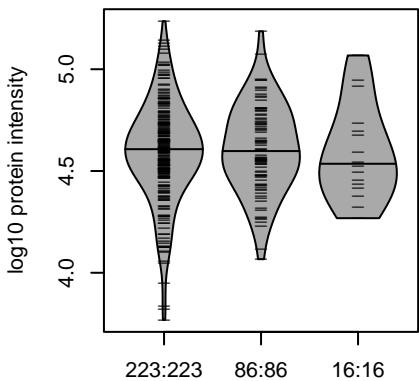
6:31105633:C:T_C
 $p = 2.8e-11$, $\beta = 0.346$, $N = 1234$

DYIALNEDLR pc2

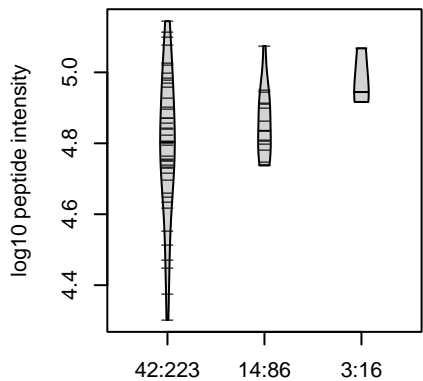
6:31105633:C:T_C
 $p = 9.3e-08$, $\beta = 0.417$, $N = 517$

DGEDQTQDTELVETRPAGDR pc3

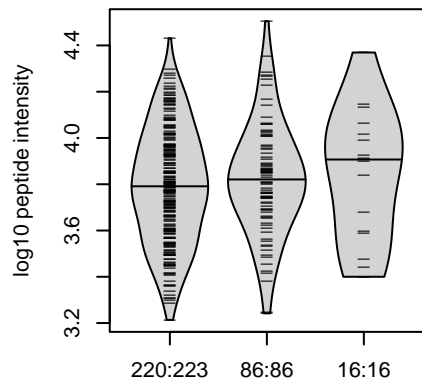
6:31105633:C:T_C
 $p = 3e-07$, $\beta = 0.269$, $N = 1209$

P01889 NP2

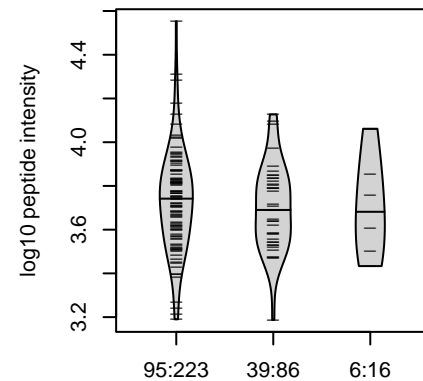
rs2074478
 $p = 0.81$, $\beta = 0.0229$, $N = 325$

DYIALNEDLR pc2

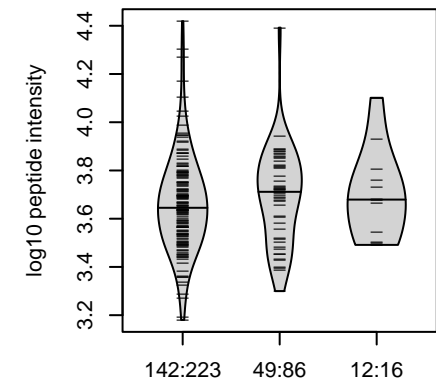
rs2074478
 $p = 0.058$, $\beta = 0.41$, $N = 59$

SWTAADTAAQITQR pc2

rs2074478
 $p = 0.32$, $\beta = 0.0947$, $N = 322$

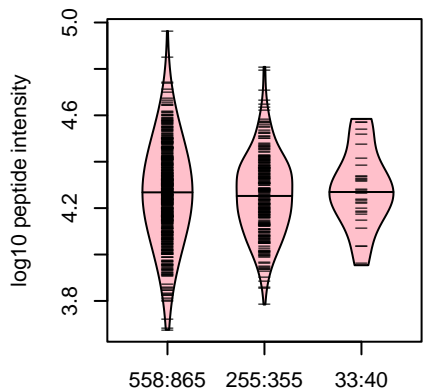
APWIEQEGPEYWDR pc2

rs2074478
 $p = 0.37$, $\beta = -0.132$, $N = 140$

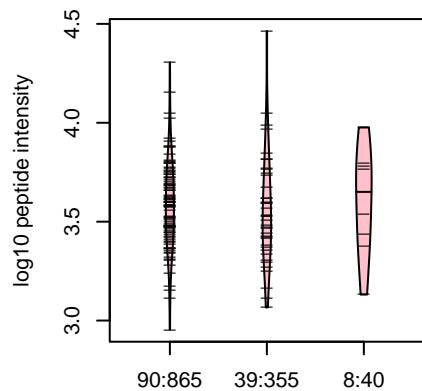
YTCHVQHEGLPK pc3

rs2074478
 $p = 0.37$, $\beta = 0.105$, $N = 203$

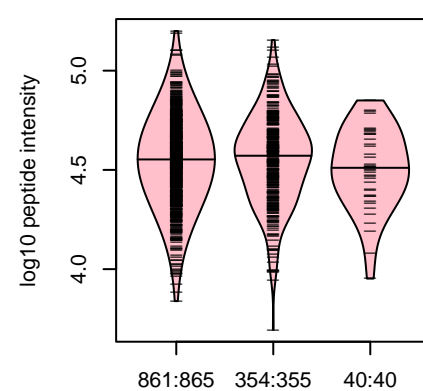
Locus: 185 (Sort: 212)
 Status: Not replicated
 80% power: No
 SNP: 6:31105633:C:T
 rsID: rs2074478
 UniProtID: P01889
 HGNC gene: HLA-B
 Type: Cis-pQTL

**FISVG YVDDTQFVR pc2
rs1050437 REF**

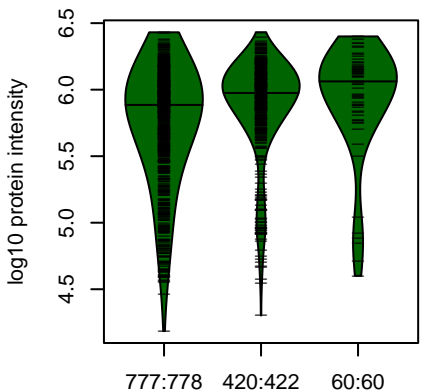
6:31105633:C:T_C
 $p = 0.0036$, model = REC, $N = 846$

**GEPRFISVG YVDDTQFVR pc3
rs1050437 REF**

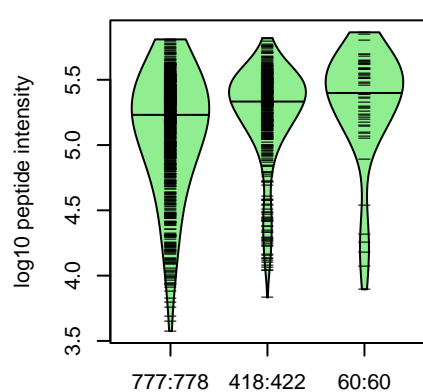
6:31105633:C:T_C
 $p = 0.069$, model = DOM, $N = 137$

**WAAVVVPSGEEQR pc2
rs707908;rs1736924 ALT**

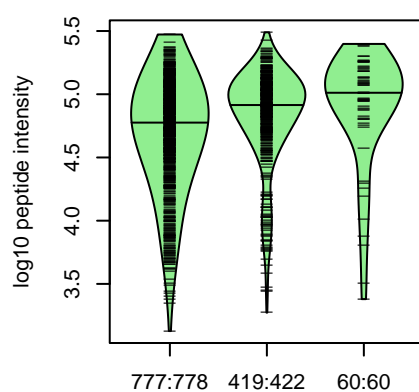
6:31105633:C:T_C
 $p = 1$, model = DOM, $N = 1255$

SERPINA10 [trans]

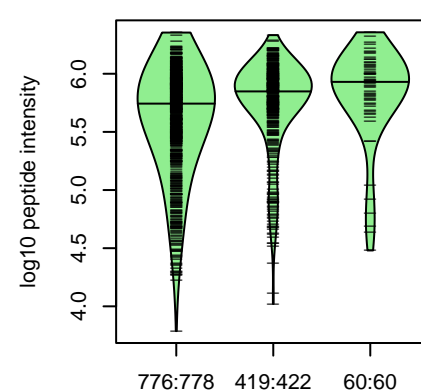
13:113846989:G:C_C
 $p = 1.4e-12$, $\beta = 0.338$, $N = 1257$

YEMHELLR pc2

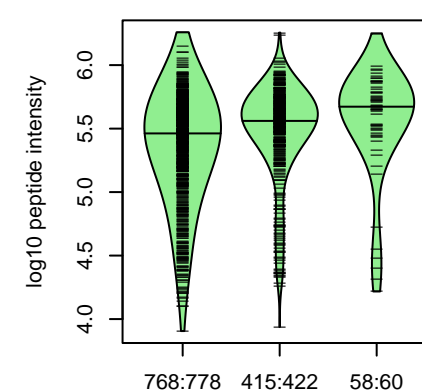
13:113846989:G:C_C
 $p = 3e-14$, $\beta = 0.362$, $N = 1255$

RIFSPFADLSELSATGR pc3

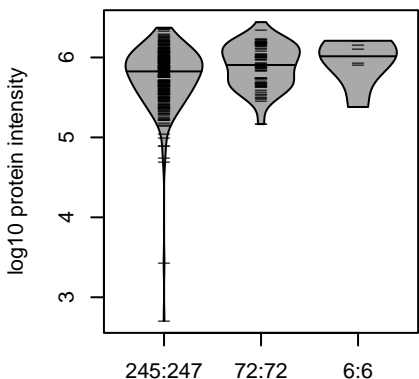
13:113846989:G:C_C
 $p = 1.1e-12$, $\beta = 0.339$, $N = 1256$

VPMYMGAGK pc2

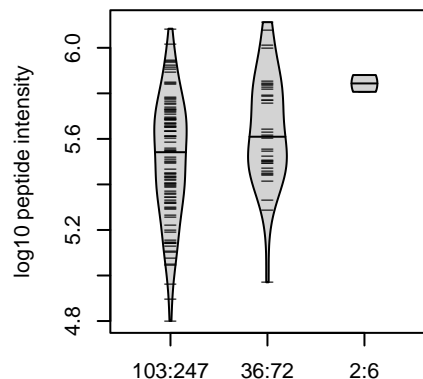
13:113846989:G:C_C
 $p = 1.5e-12$, $\beta = 0.337$, $N = 1255$

LILDVYILFK pc2

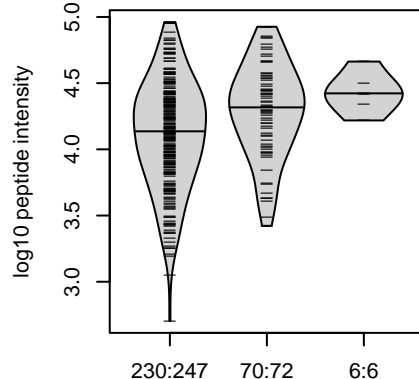
13:113846989:G:C_C
 $p = 2.8e-12$, $\beta = 0.336$, $N = 1241$

G3V2W1 NP2

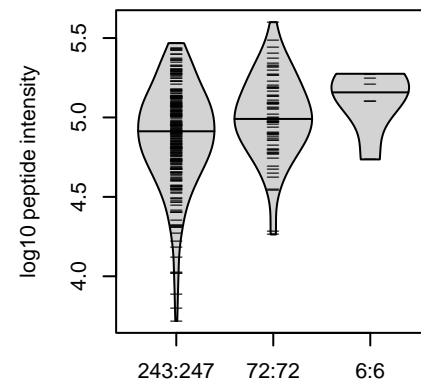
rs9549688
 $p = 0.017$, $\beta = 0.273$, $N = 323$

FASTFDK pc2

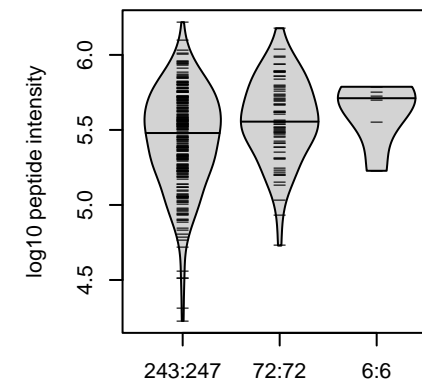
rs9549688
 $p = 0.00095$, $\beta = 0.555$, $N = 141$

VDRPFHFMIYEETSGMILLFLGR pc.

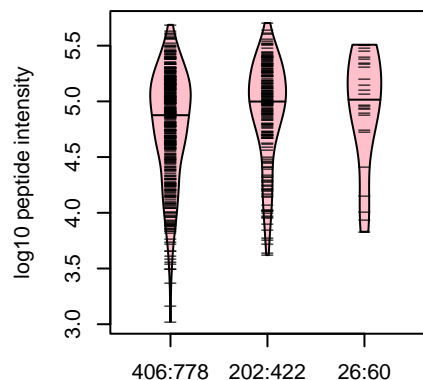
rs9549688
 $p = 0.0042$, $\beta = 0.331$, $N = 306$

RIFSPFADLSELSATGR pc3

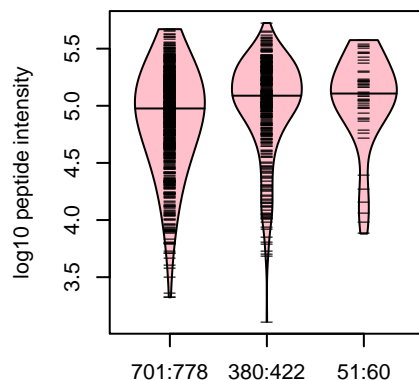
rs9549688
 $p = 0.0061$, $\beta = 0.313$, $N = 321$

AWLMASR pc2

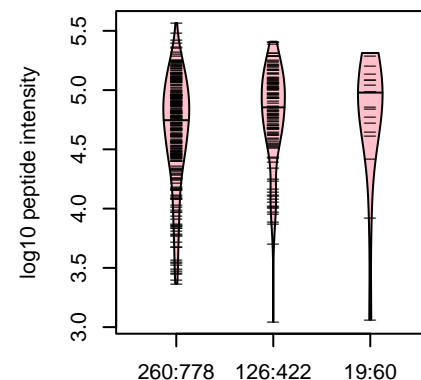
rs9549688
 $p = 0.0067$, $\beta = 0.31$, $N = 321$

**NLELGLTQGSFAFIHK pc3
rs2232700 REF**

13:113846989:G:C_C
 $p = 0.093$, $\text{model} = \text{REC}$, $N = 634$

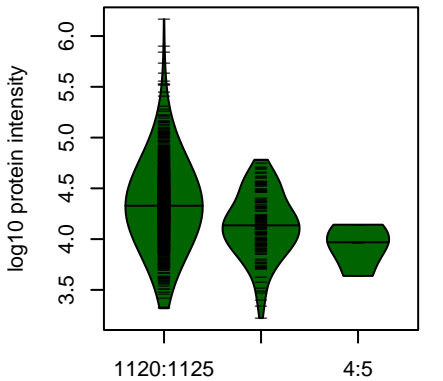
**ETLSRNLELGLTQGSFAFIHK pc4
rs2232700 REF**

13:113846989:G:C_C
 $p = 0.19$, $\text{model} = \text{DOM}$, $N = 1132$

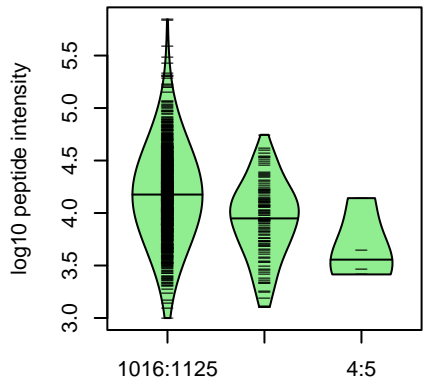
**NLELGLSQQGSFAFIHK pc3
rs2232700 ALT**

13:113846989:G:C_C
 $p = 0.24$, $\text{model} = \text{REC}$, $N = 405$

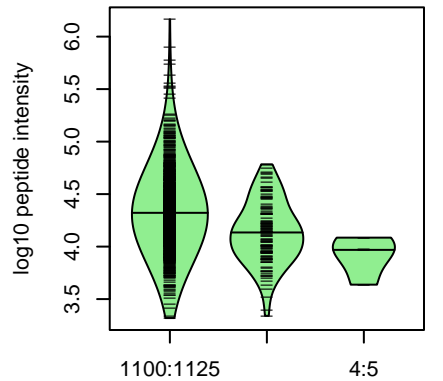
Locus: 186 (Sort: 213)
 Status: Not replicated
 80% power: No
 SNP: 13:113846989:G:C
 rsID: rs9549688
 UniProtID: G3V2W1
 HGNC gene: SERPINA10
 Type: Trans-pQTL

BPI [cis]

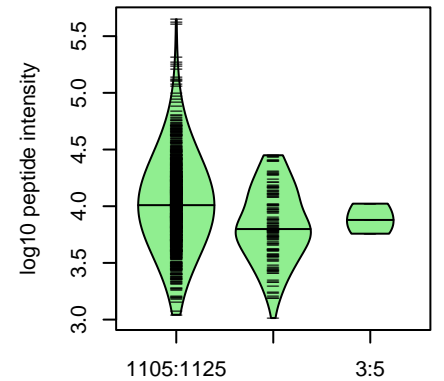
20:36944749:C:A_A
 $p = 1.4e-12$, $\beta = -0.612$, $N = 1253$

IPDYSDSFK pc2

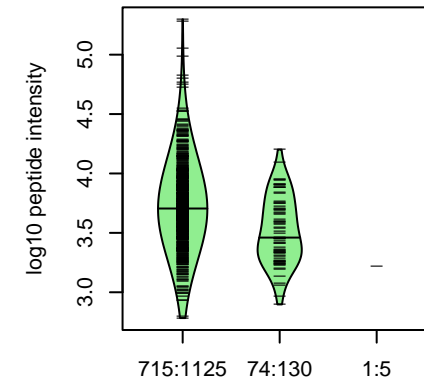
20:36944749:C:A_A
 $p = 1.3e-12$, $\beta = -0.644$, $N = 1135$

GFPLTPAR pc2

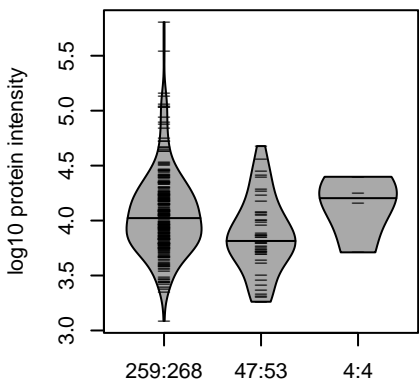
20:36944749:C:A_A
 $p = 3.3e-12$, $\beta = -0.616$, $N = 1226$

FFGTFLPEVAK pc2

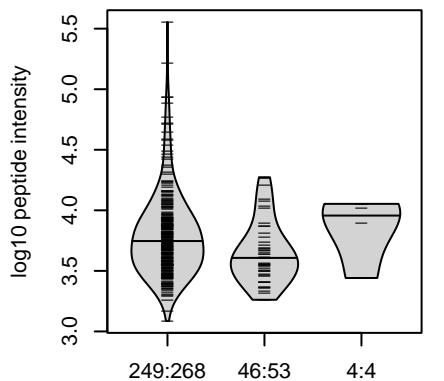
20:36944749:C:A_A
 $p = 1.1e-10$, $\beta = -0.572$, $N = 1234$

GLDYASQQGTAALQK pc2

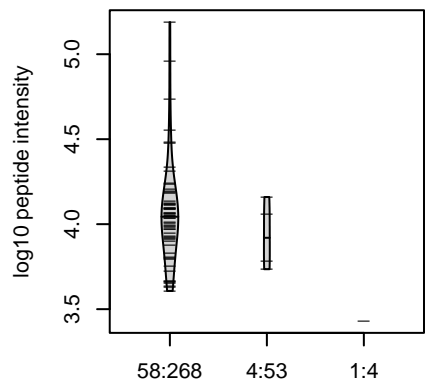
20:36944749:C:A_A
 $p = 4e-09$, $\beta = -0.688$, $N = 790$

P17213 NP4

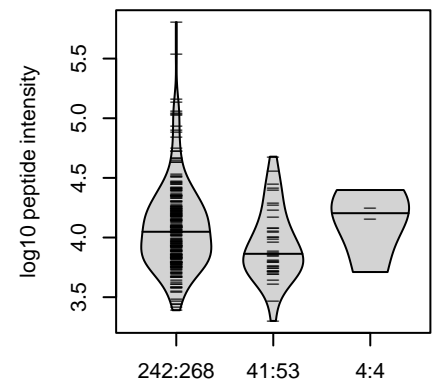
rs116381416
 $p = 0.01$, $\beta = -0.343$, $N = 310$

FFGTFLPEVAK pc2

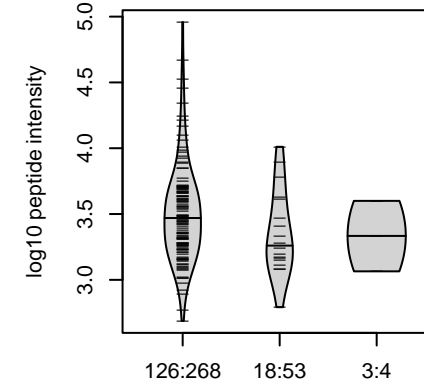
rs116381416
 $p = 0.052$, $\beta = -0.265$, $N = 299$

FSISNANIK pc2

rs116381416
 $p = 0.067$, $\beta = -0.639$, $N = 63$

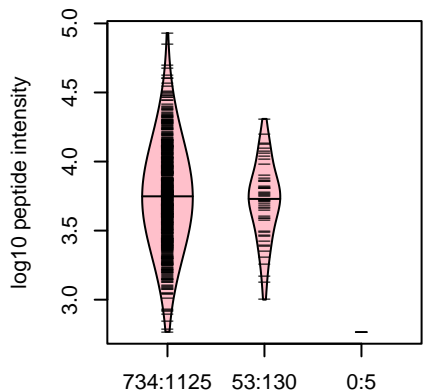
GFPLTPAR pc2

rs116381416
 $p = 0.073$, $\beta = -0.253$, $N = 287$

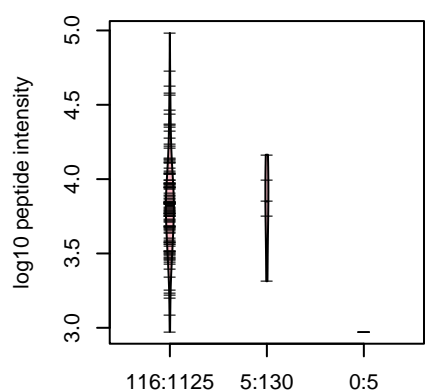
EFQLPSSQISMVNVGLK pc2

rs116381416
 $p = 0.088$, $\beta = -0.325$, $N = 147$

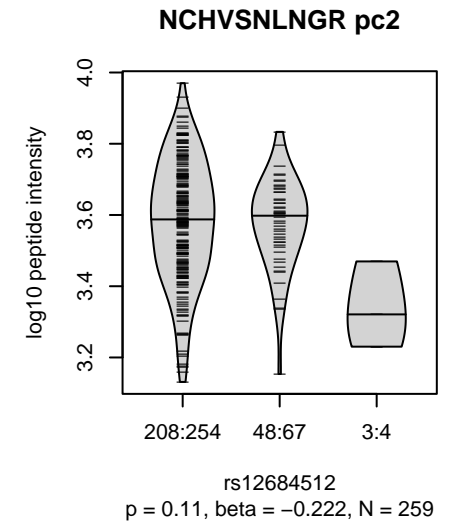
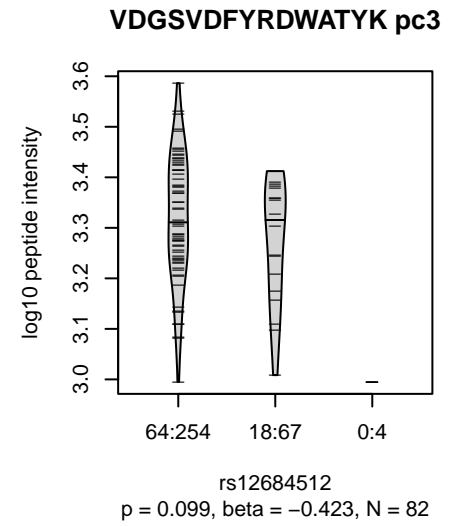
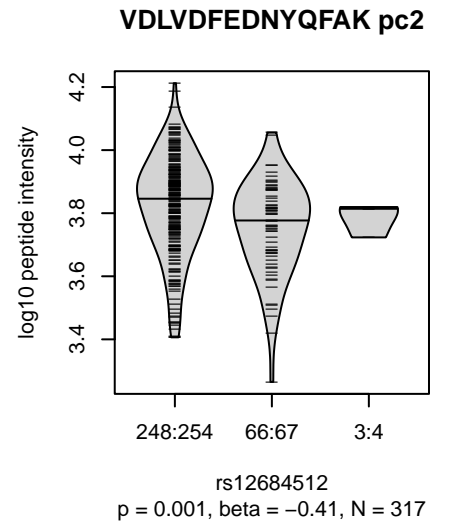
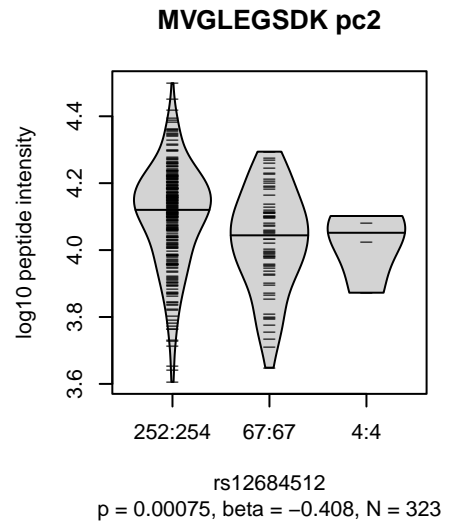
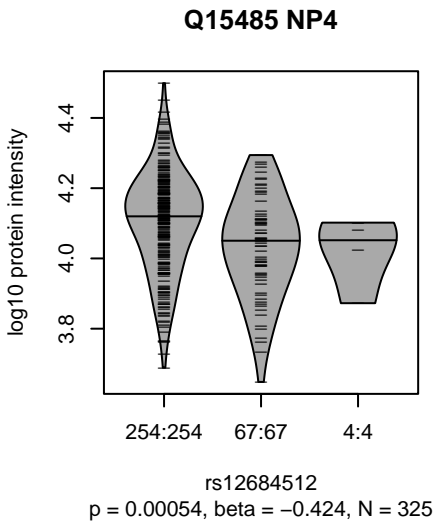
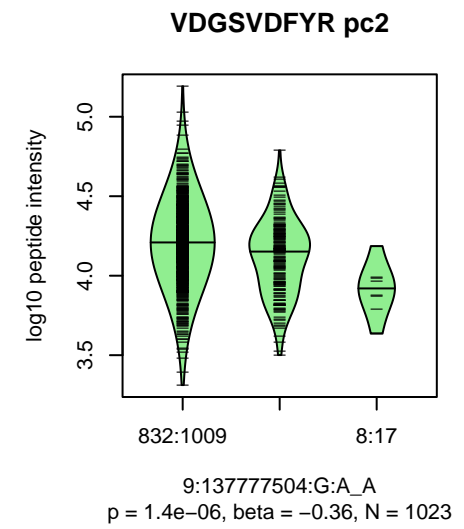
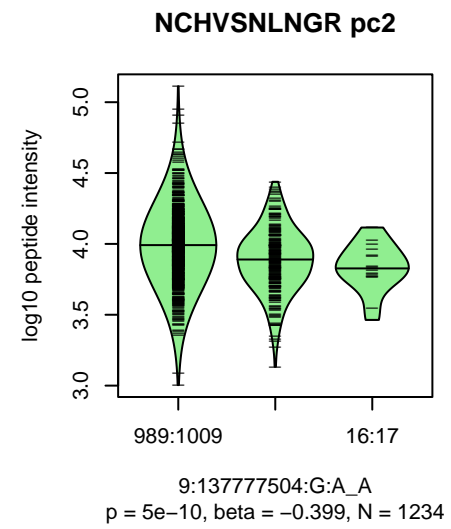
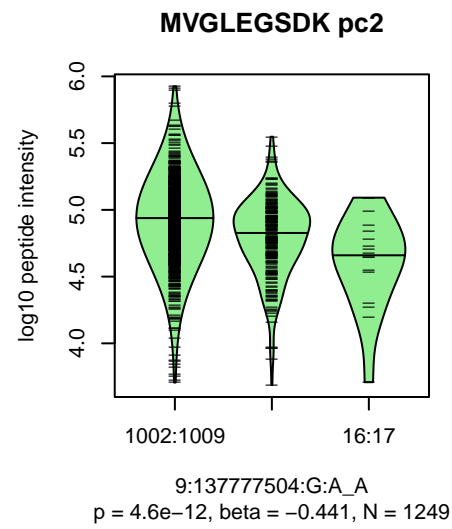
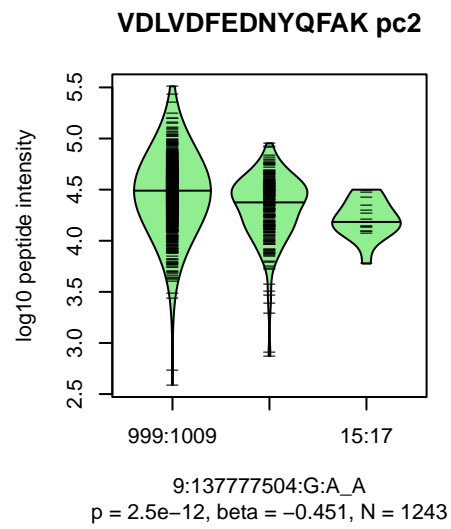
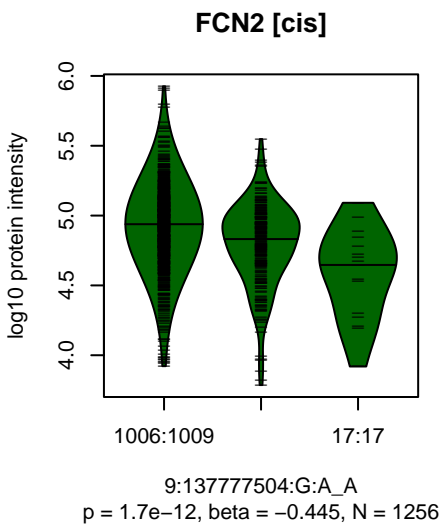
Locus: 187 (Sort: 214)
 Status: Not replicated
 80% power: No
 SNP: 20:36944749:C:A
 rsID: rs116381416
 UniProtID: P17213
 HGNC gene: BPI
 Type: Cis-pQTL

**LQPYFQTLVMTK pc2
rs4358188 ALT**

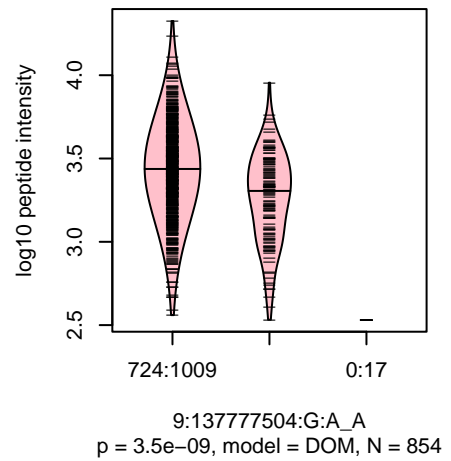
20:36944749:C:A_A
 $p = 9.4e-09$, $\text{model} = \text{REC}$, $N = 787$

**iEFYSENHHNPPPFAPPVMEFPAHDR
rs5741804 REF**

20:36944749:C:A_A
 $p = 0.012$, $\text{model} = \text{REC}$, $N = 121$

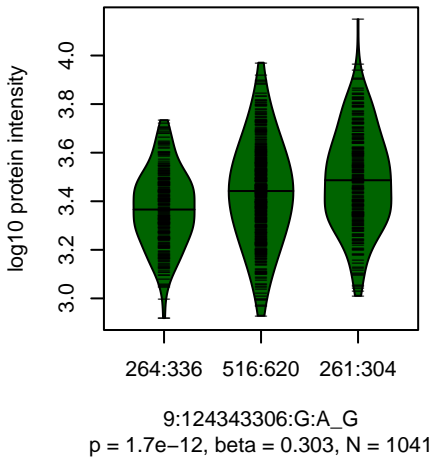


DQDNDLNTGNCVAVMFQGAWWYK p
rs7851696 REF

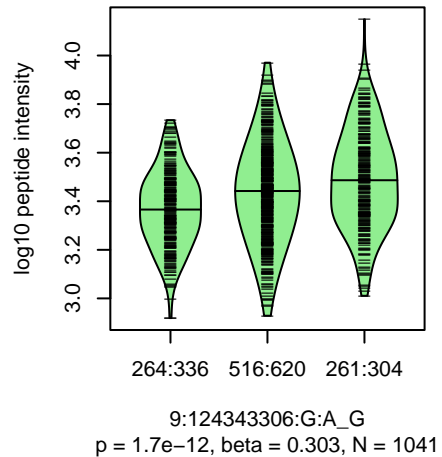


Locus: 188 (Sort: 215)
Status: Not replicated
80% power: No
SNP: 9:137777504:G:A
rsID: rs12684512
UniProtID: Q15485
HGNC gene: FCN2
Type: Cis-pQTL

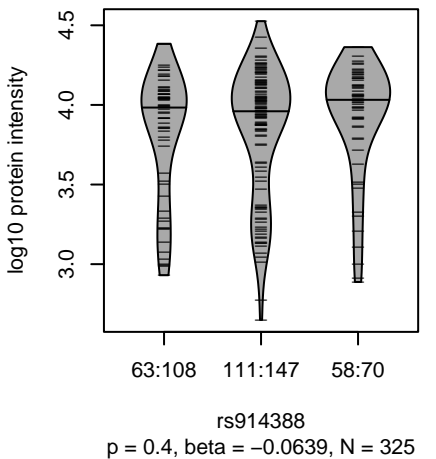
GGTA1P [cis]



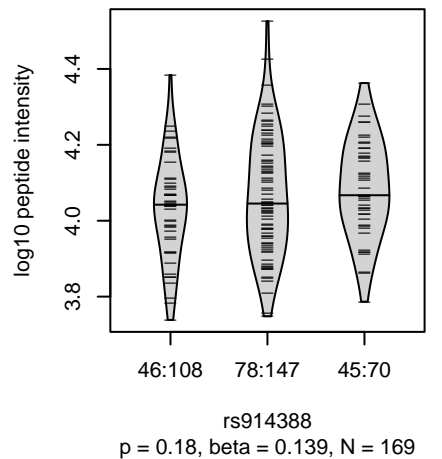
NPEVDDSSAQK pc2



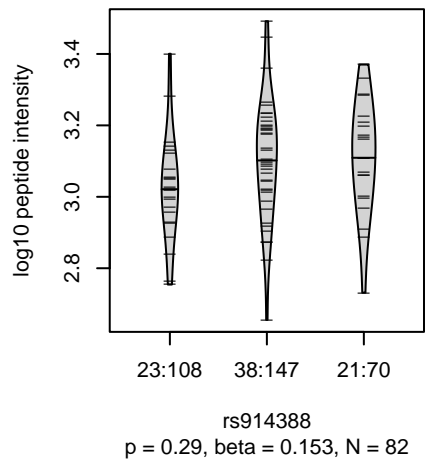
Q4G0N0 NP2



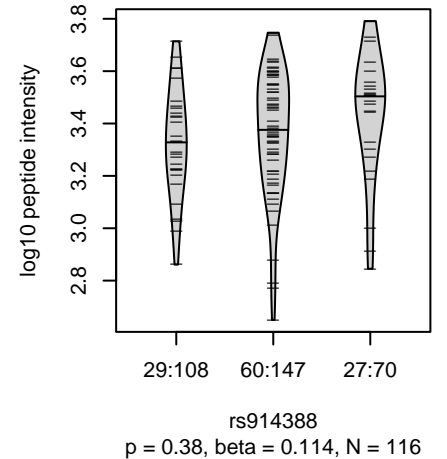
MVGLEGS DK pc2



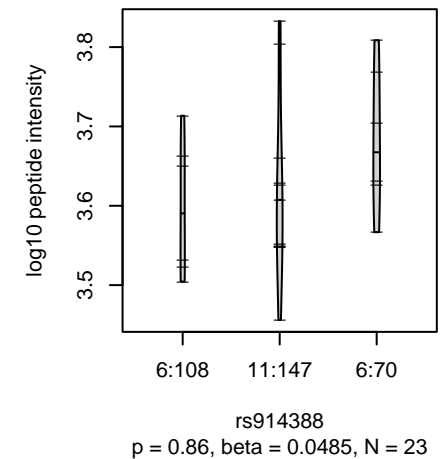
NCHVSNLNGR pc2



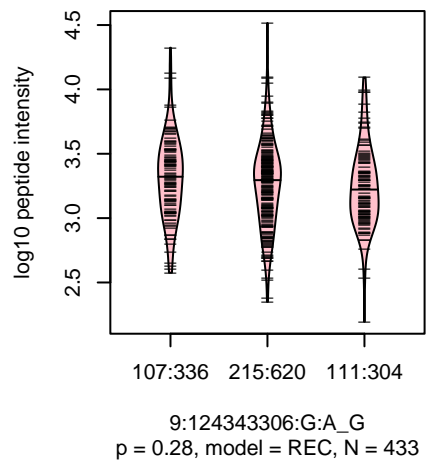
VDLVDFEDNYQFAK pc2



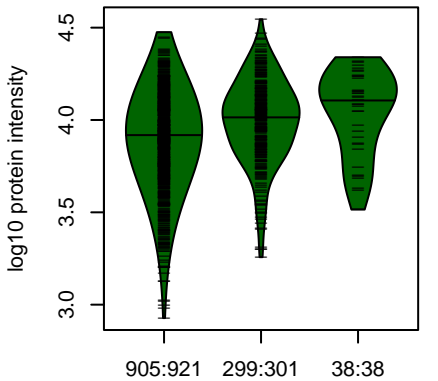
VDGSVDFYR pc2



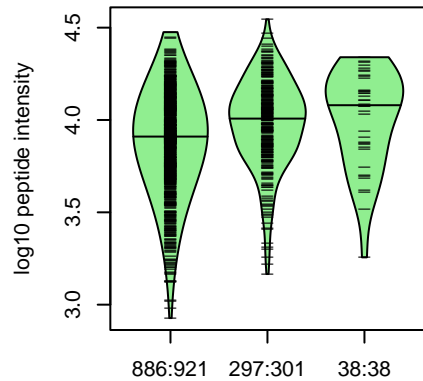
DQDNDLNTGNCVAVMFQGAWWYK pc2 rs7851696 REF



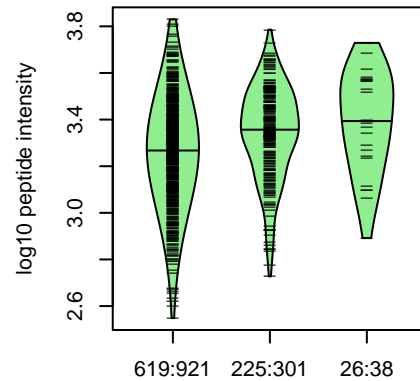
Locus: 189 (Sort: 216)
Status: Not replicated
80% power: No
SNP: 9:124343306:G:A
rsID: rs914388
UniProtID: Q4G0N0
HGNC gene: GGTA1P
Type: Cis-pQTL

PON2 [cis]

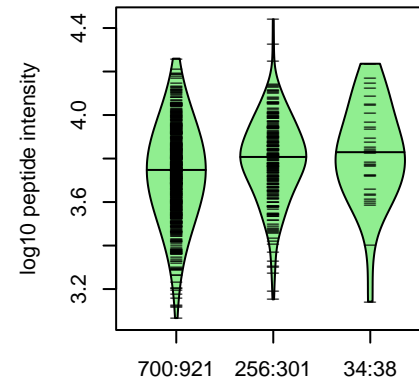
7:95061328:G:A_A
 $p = 1.7e-12$, $\beta = 0.378$, $N = 1242$

YIYVADILAHEIHVLEK pc3

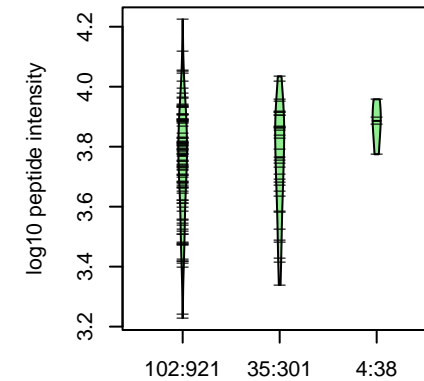
7:95061328:G:A_A
 $p = 1.8e-10$, $\beta = 0.344$, $N = 1221$

LFVYDPNPPSSEVLR pc2

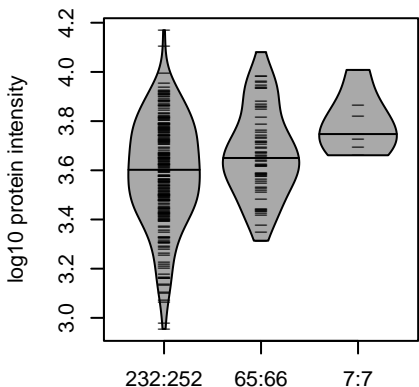
7:95061328:G:A_A
 $p = 7.3e-09$, $\beta = 0.367$, $N = 870$

EVESVDLPHCHLIK pc3

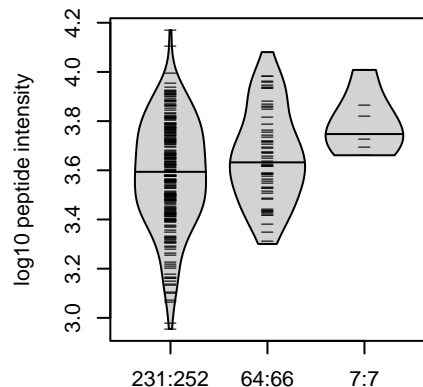
7:95061328:G:A_A
 $p = 1.1e-06$, $\beta = 0.286$, $N = 990$

LLIGTLYHR pc2

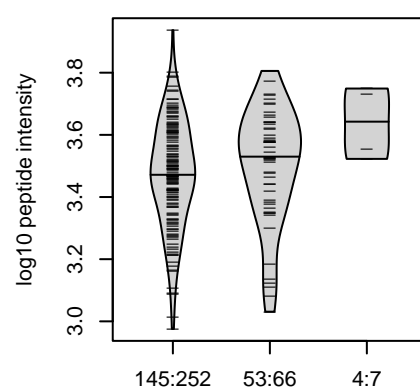
7:95061328:G:A_A
 $p = 0.25$, $\beta = 0.181$, $N = 141$

A0A0J9YXF2 NP5

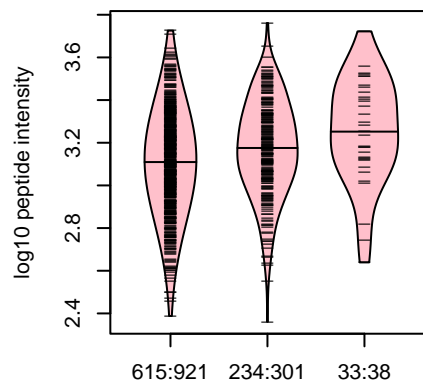
rs10261470
 $p = 7e-04$, $\beta = 0.388$, $N = 304$

YIYVADILAHEIHVLEK pc3

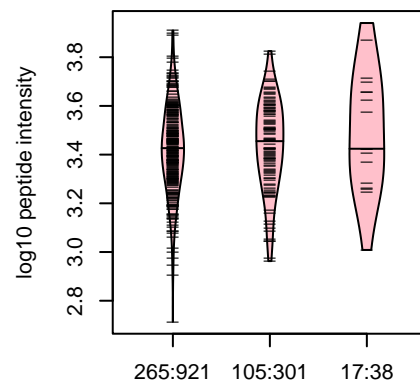
rs10261470
 $p = 0.001$, $\beta = 0.378$, $N = 302$

LFVYDPNPPSSEVLR pc2

rs10261470
 $p = 0.28$, $\beta = 0.149$, $N = 202$

**FEEAENSLHLK pc3
rs12026 REF**

7:95061328:G:A_A
 $p = 3.1e-05$, $\text{model} = \text{REC}$, $N = 882$

**IQNILSEK pc2
rs7493 REF**

7:95061328:G:A_A
 $p = 0.016$, $\text{model} = \text{REC}$, $N = 387$

Locus: 190 (Sort: 217)

Status: Not replicated

80% power: No

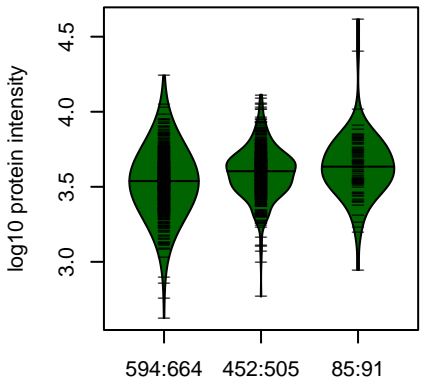
SNP: 7:95061328:G:A

rsID: rs10261470

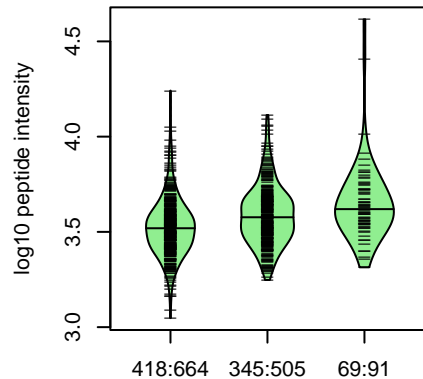
UniProtID: A0A0J9YXF2

HGNC gene: PON2

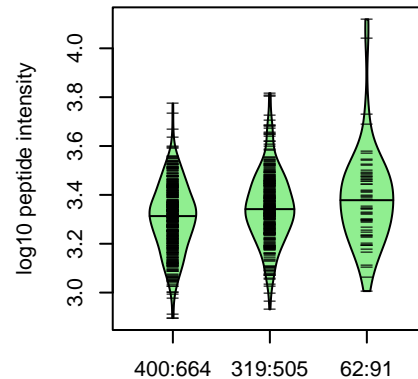
Type: Cis-pQTL

PDCD5 [cis]

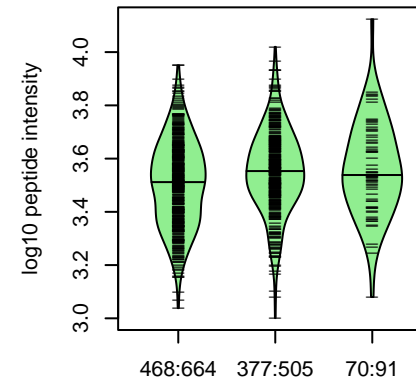
19:33083746:A:T_T
 $p = 1.8e-12$, $\beta = 0.327$, $N = 1131$

AVENYLIQMAR pc2

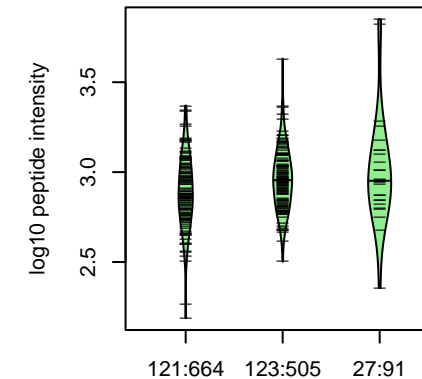
19:33083746:A:T_T
 $p = 7.9e-13$, $\beta = 0.38$, $N = 832$

NSILAQVLDQSAR pc2

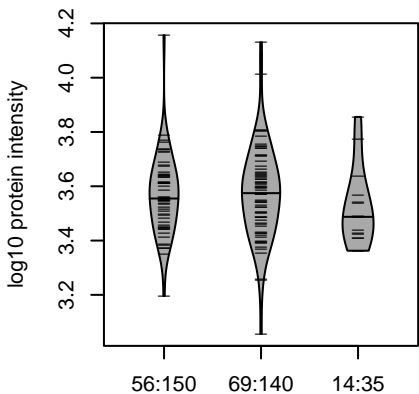
19:33083746:A:T_T
 $p = 1.2e-05$, $\beta = 0.243$, $N = 781$

VSEQGLIEILK pc2

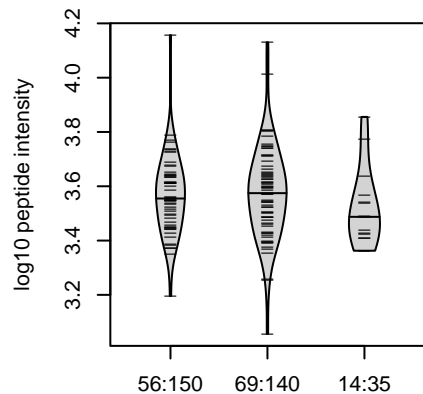
19:33083746:A:T_T
 $p = 4.6e-05$, $\beta = 0.211$, $N = 915$

LSNLALVKPEK pc2

19:33083746:A:T_T
 $p = 0.02$, $\beta = 0.212$, $N = 271$

O14737 NP2

rs11673049
 $p = 0.51$, $\beta = -0.0853$, $N = 139$

AVENYLIQMAR pc2

rs11673049
 $p = 0.5$, $\beta = -0.0879$, $N = 139$

Locus: 191 (Sort: 218)

Status: Not replicated

80% power: No

SNP: 19:33083746:A:T

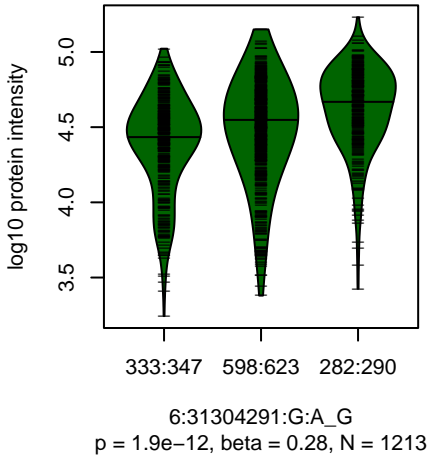
rsID: rs11673049

UniProtID: O14737

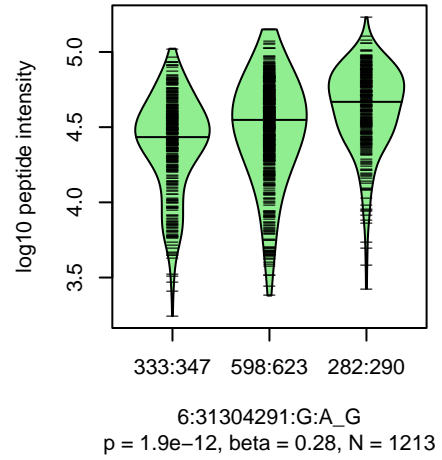
HGNC gene: PDCD5

Type: Cis-pQTL

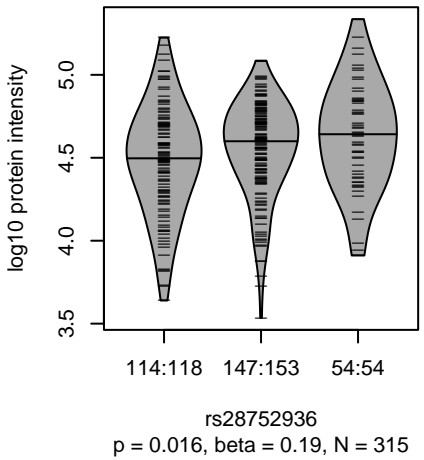
HLA-G [cis]



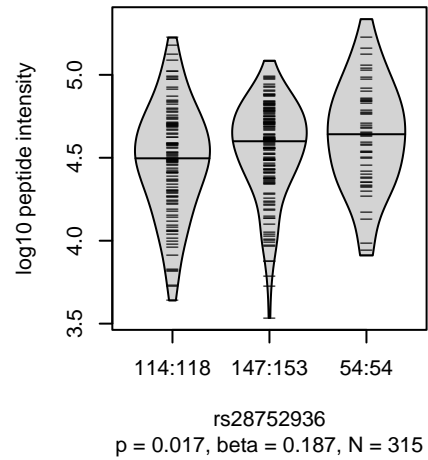
DYLALNEDLR pc2



Q5RJ85 NP1

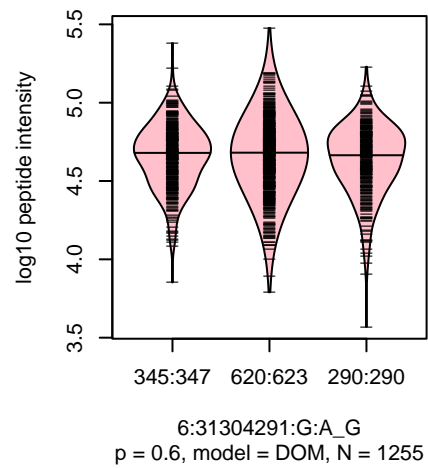


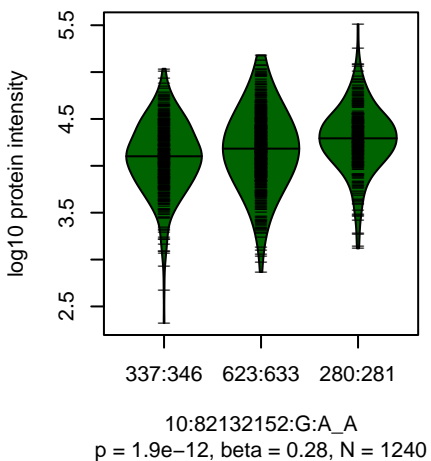
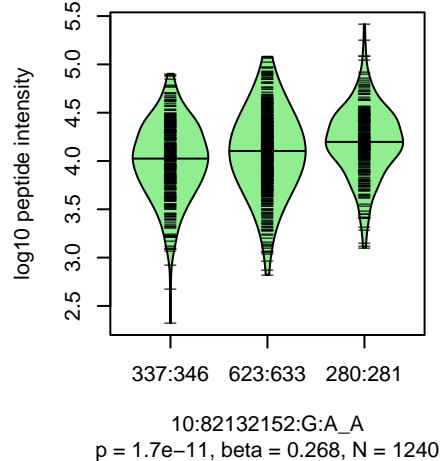
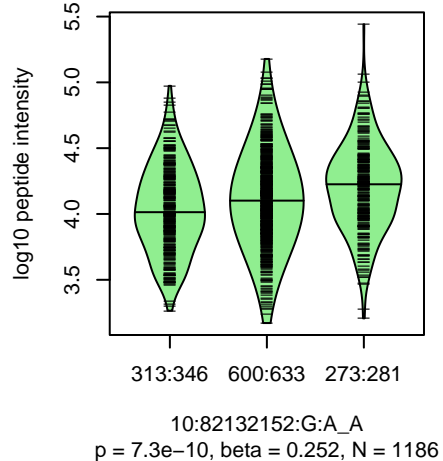
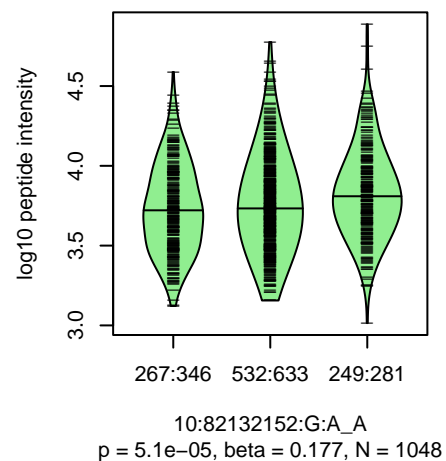
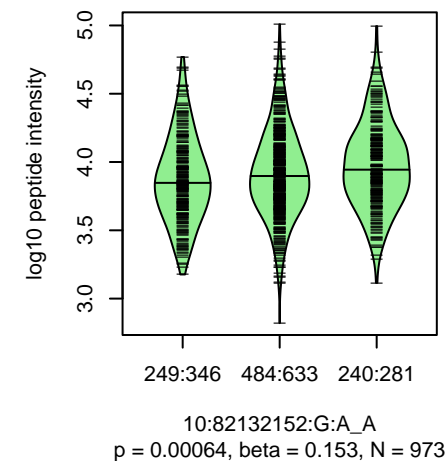
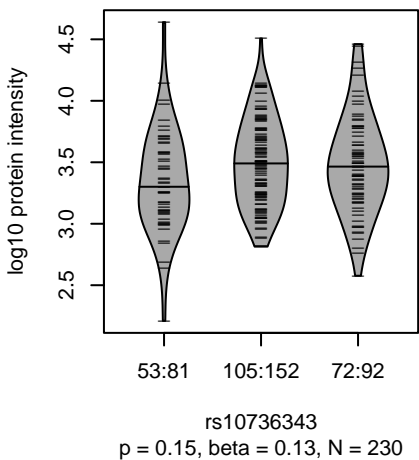
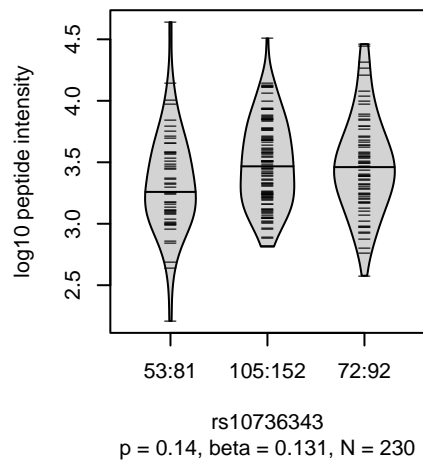
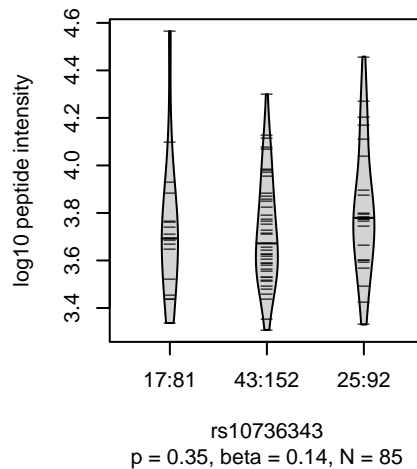
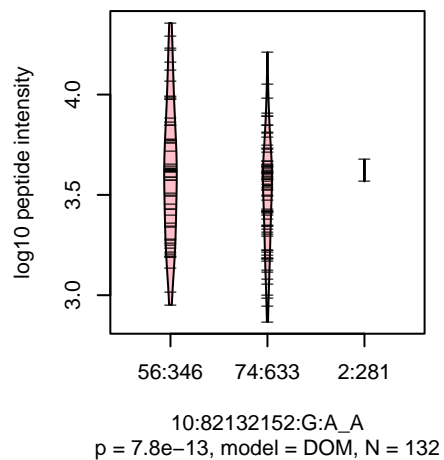
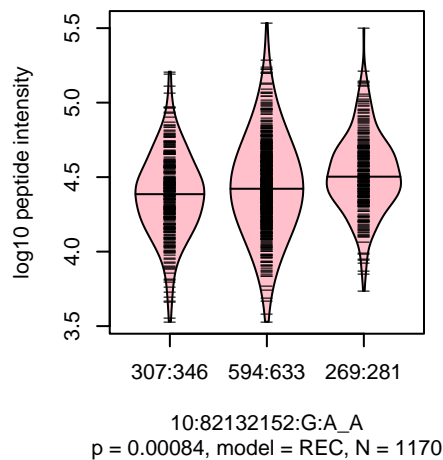
DYLALNEDLR pc2



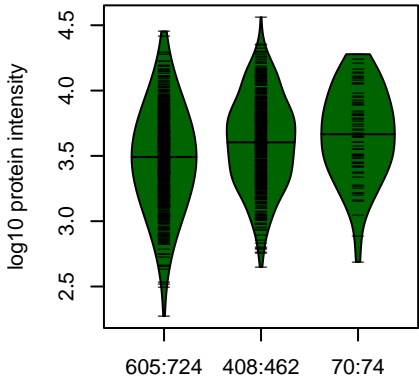
Locus: 192 (Sort: 219)
Status: Not replicated
80% power: No
SNP: 6:31304291:G:A
rsID: rs28752936
UniProtID: Q5RJ85
HGNC gene: HLA-G
Type: Cis-pQTL

WAAVVPSGEEQR pc2 rs707908;rs1736924 ALT

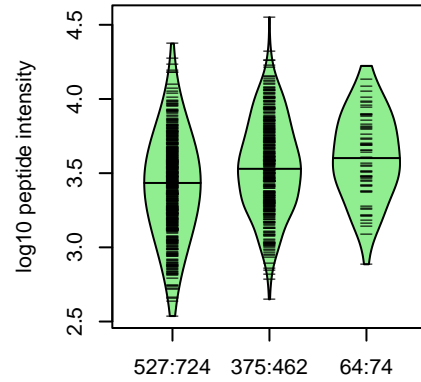


SFTPD [cis]**SAAENAALQQLVVAK pc2****NEAFLSMTDSK pc2****QGNIGPQGK pc2****KVELFPNGQSVGEK pc3****P35247 NP5****SAAENAALQQLVVAK pc2****NEAFLSMTDSK pc2****PFTEAQLLCTQAGGQLATPR pc3
rs3088308 ALT****PFTEAQLLCTQAGGQLASPR pc3
rs3088308 REF**

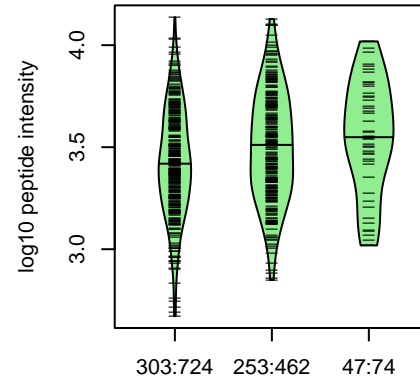
Locus: 193 (Sort: 220)
Status: Not replicated
80% power: No
SNP: 10:82132152:G:A
rsID: rs10736343
UniProtID: P35247
HGNC gene: SFTPD
Type: Cis-pQTL

FREM2 [cis]

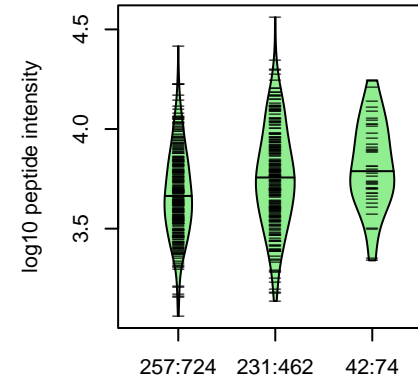
13:39275451:G:A_A
 $p = 2e-12$, $\beta = 0.342$, $N = 1083$

VGILSGLGALPR pc2

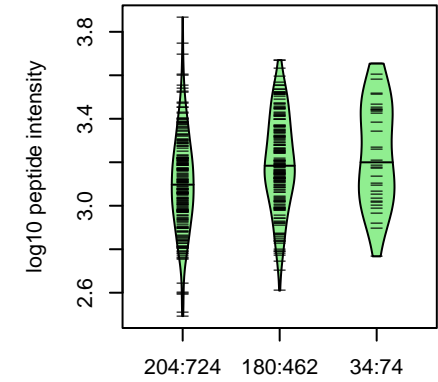
13:39275451:G:A_A
 $p = 1.6e-14$, $\beta = 0.392$, $N = 966$

FIVTEAPQHGILLNLDK pc3

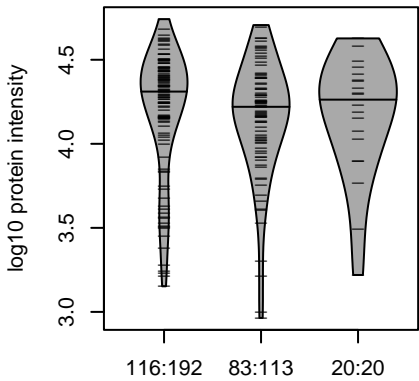
13:39275451:G:A_A
 $p = 3.5e-06$, $\beta = 0.294$, $N = 603$

SLPLSSFTQR pc2

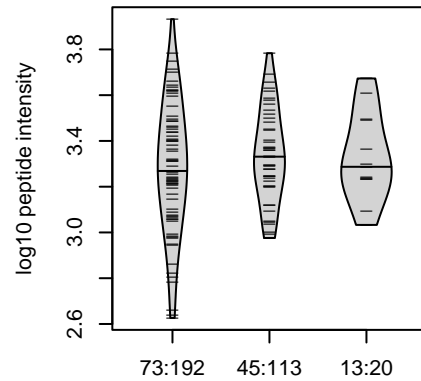
13:39275451:G:A_A
 $p = 3.8e-06$, $\beta = 0.312$, $N = 530$

PMNTMAPVVTR pc2

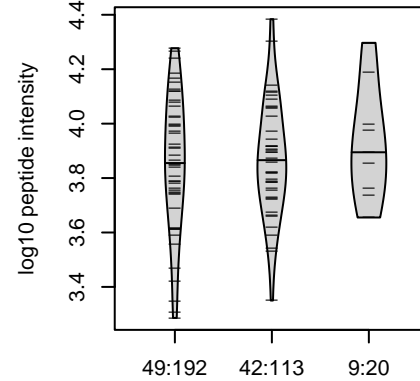
13:39275451:G:A_A
 $p = 5.8e-06$, $\beta = 0.341$, $N = 418$

Q5SZK8 NP2

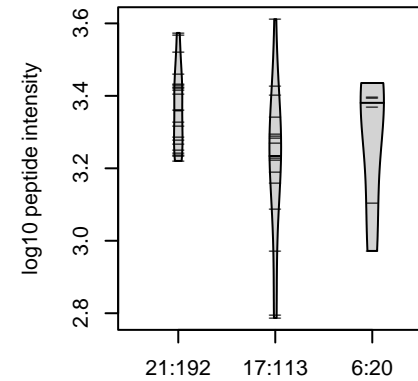
rs2496430
 $p = 0.78$, $\beta = -0.028$, $N = 219$

EVWLDPLHDLVLQVQPGDR pc3

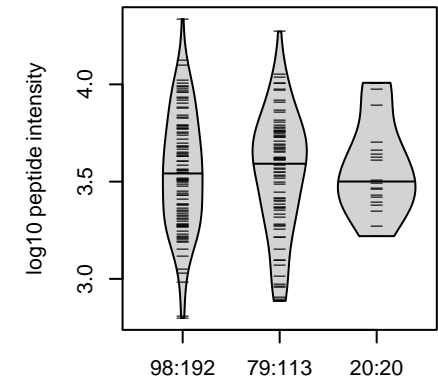
rs2496430
 $p = 0.091$, $\beta = 0.215$, $N = 131$

SLPLSSFTQR pc2

rs2496430
 $p = 0.098$, $\beta = 0.247$, $N = 100$

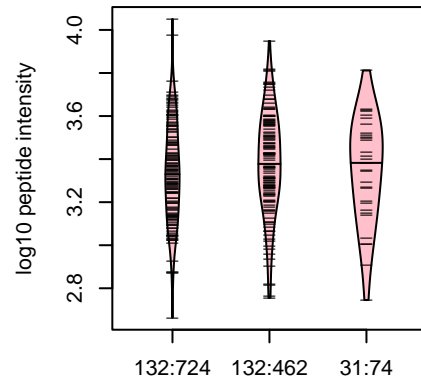
GYLGETSFISIGTR pc2

rs2496430
 $p = 0.1$, $\beta = -0.33$, $N = 44$

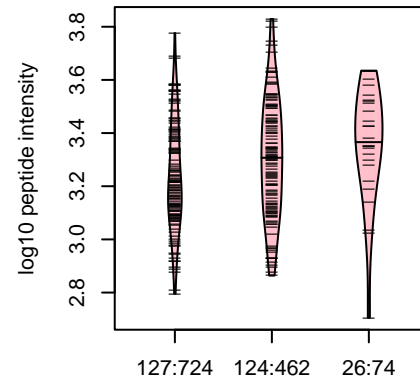
VGILSGLGALPR pc2

rs2496430
 $p = 0.14$, $\beta = 0.155$, $N = 197$

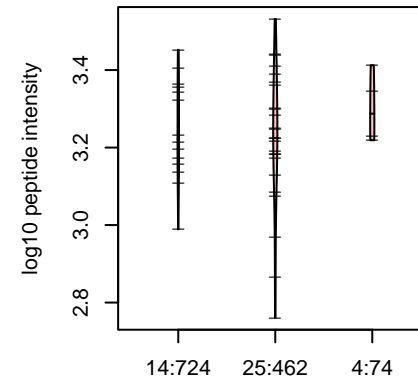
Locus: 194 (Sort: 221)
 Status: Not replicated
 80% power: No
 SNP: 13:39275451:G:A
 rsID: rs2496430
 UniProtID: Q5SZK8
 HGNC gene: FREM2
 Type: Cis-pQTL

**NLDFAPGVNMQPVR pc2
rs9548505 REF**

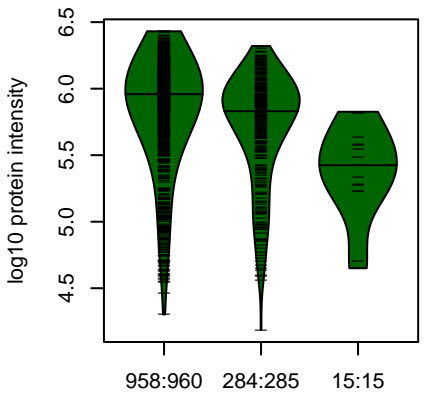
13:39275451:G:A_A
 $p = 5.8e-07$, model = REC, $N = 295$

**TLATGHLGFMITSK pc3
rs1868463 REF**

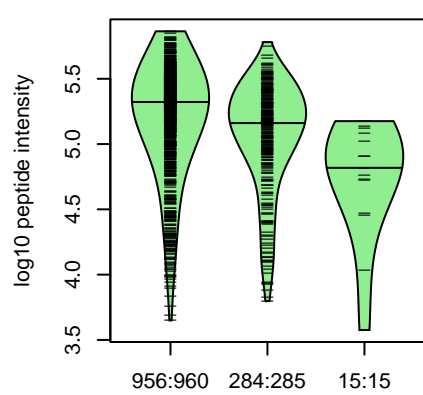
13:39275451:G:A_A
 $p = 1.4e-05$, model = REC, $N = 277$

**EGETQHVVEIEVIFDGVR pc3
rs9548509 ALT**

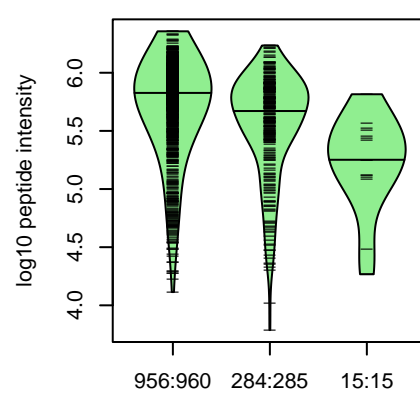
13:39275451:G:A_A
 $p = 9e-04$, model = REC, $N = 43$

SERPINA10 [trans]

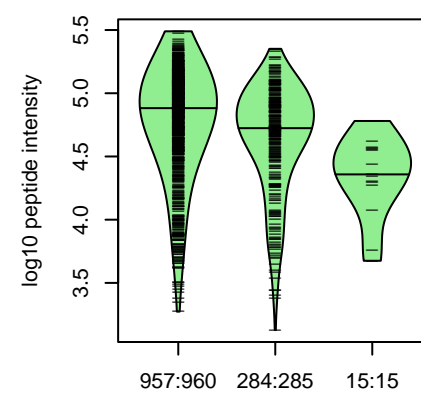
13:113915194:A:G_G
 $p = 2.1e-12$, $\beta = -0.425$, $N = 1257$

YEMHELLR pc2

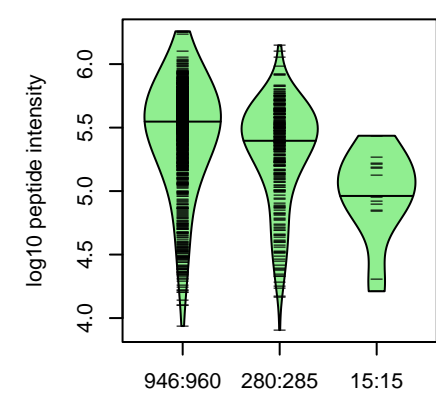
13:113915194:A:G_G
 $p = 4.4e-14$, $\beta = -0.456$, $N = 1255$

VPMMYGAGK pc2

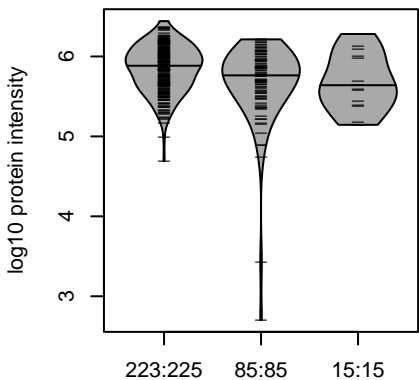
13:113915194:A:G_G
 $p = 2e-13$, $\beta = -0.444$, $N = 1255$

RIFSPFADLSELSATGR pc3

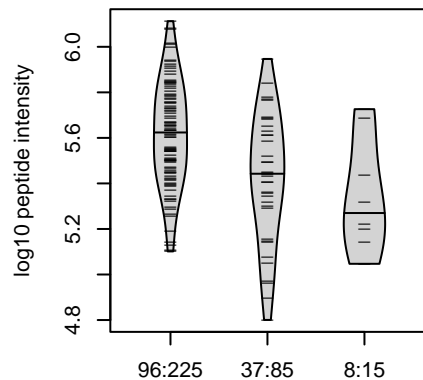
13:113915194:A:G_G
 $p = 1.4e-12$, $\beta = -0.429$, $N = 1256$

LILVDYILFK pc2

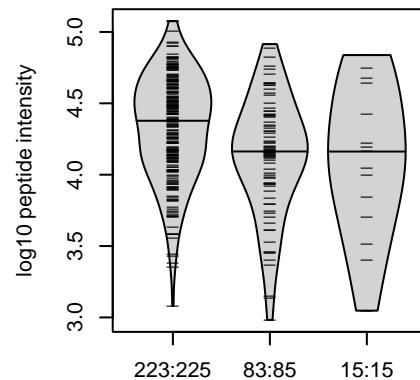
13:113915194:A:G_G
 $p = 1.8e-12$, $\beta = -0.429$, $N = 1241$

G3V2W1 NP2

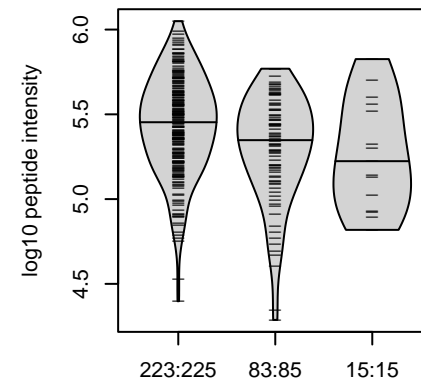
rs61967893
 $p = 0.01$, $\beta = -0.248$, $N = 323$

FASTFDK pc2

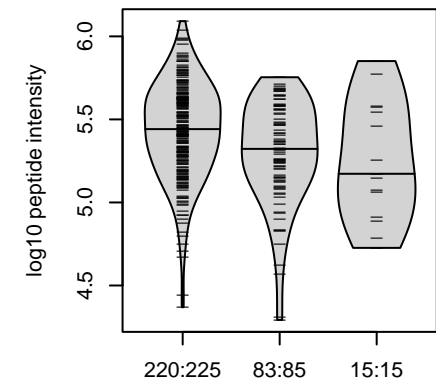
rs61967893
 $p = 0.00048$, $\beta = -0.478$, $N = 141$

ETSNFGFSLLRK pc3

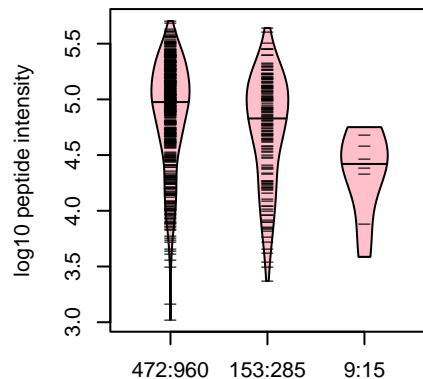
rs61967893
 $p = 0.0017$, $\beta = -0.303$, $N = 321$

NMEVFFPK pc2

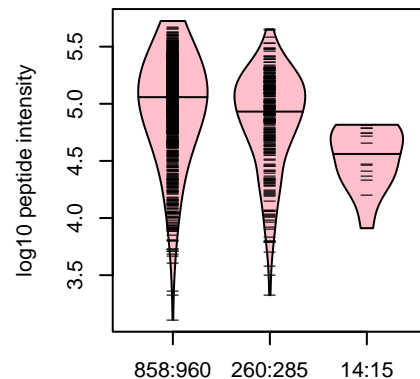
rs61967893
 $p = 0.0022$, $\beta = -0.296$, $N = 321$

LILVDYILFK pc2

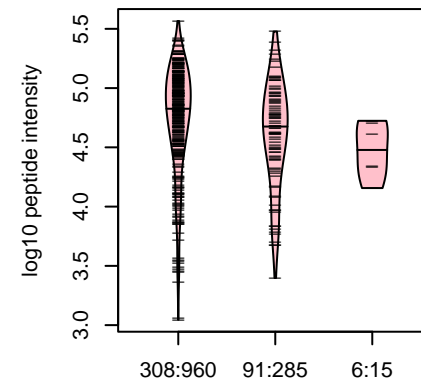
rs61967893
 $p = 0.0038$, $\beta = -0.28$, $N = 318$

**NLELGLTQGSFAFIHK pc3
rs2232700 REF**

13:113915194:A:G_G
 $p = 0.15$, $\text{model} = \text{REC}$, $N = 634$

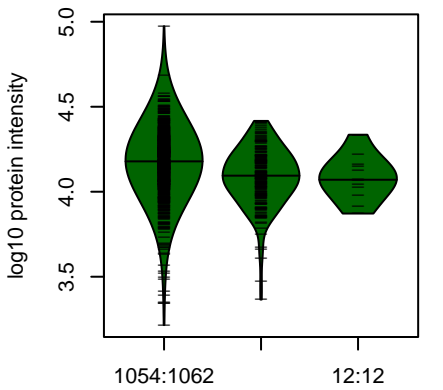
**ETLSRNLELGLTQGSFAFIHK pc4
rs2232700 REF**

13:113915194:A:G_G
 $p = 0.38$, $\text{model} = \text{REC}$, $N = 1132$

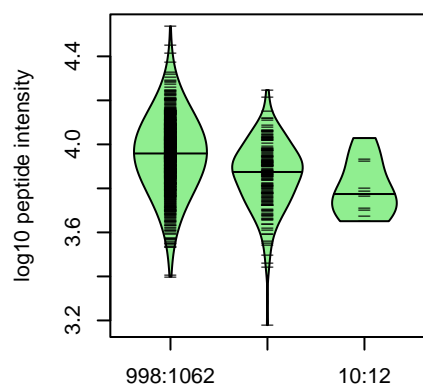
**NLELGLSQQGSFAFIHK pc3
rs2232700 ALT**

13:113915194:A:G_G
 $p = 0.58$, $\text{model} = \text{DOM}$, $N = 405$

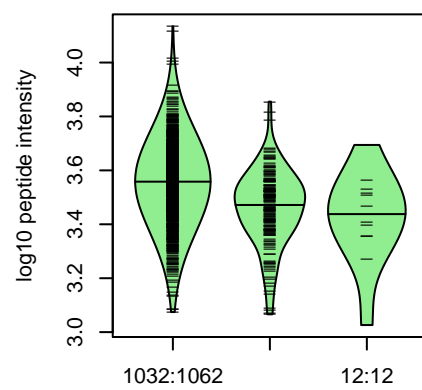
Locus: 195 (Sort: 222)
 Status: Not replicated
 80% power: No
 SNP: 13:113915194:A:G
 rsID: rs61967893
 UniProtID: G3V2W1
 HGNC gene: SERPINA10
 Type: Trans-pQTL

MMRN2 [cis]

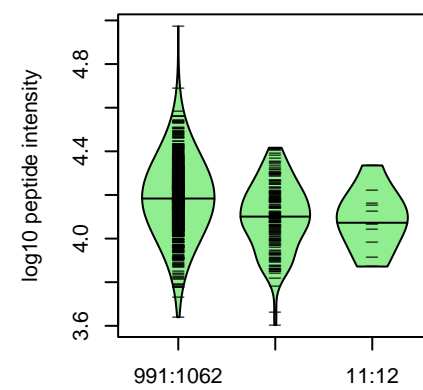
10:88696622:C:G_G
 $p = 2.3e-12$, $\beta = -0.492$, $N = 1250$

VWFELTQGSITK pc2

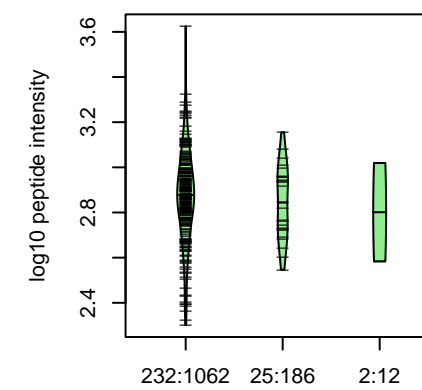
10:88696622:C:G_G
 $p = 3.9e-17$, $\beta = -0.618$, $N = 1177$

SLSGTAFGGFLMFK pc2

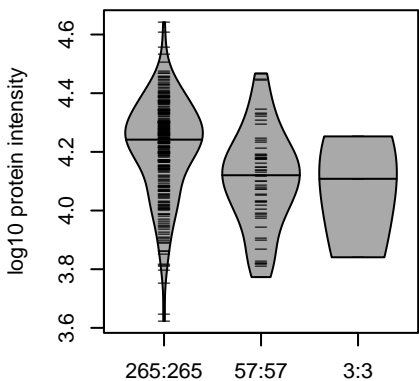
10:88696622:C:G_G
 $p = 1e-16$, $\beta = -0.597$, $N = 1213$

EAEPLVDIR pc2

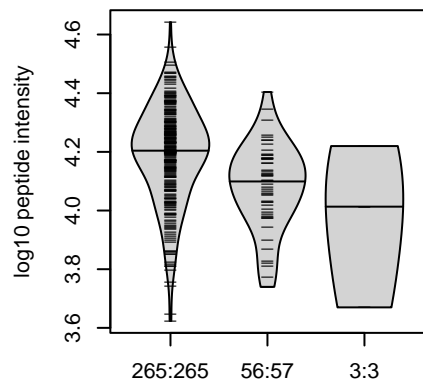
10:88696622:C:G_G
 $p = 4.2e-13$, $\beta = -0.531$, $N = 1169$

SQVQALDDEVGALK pc2

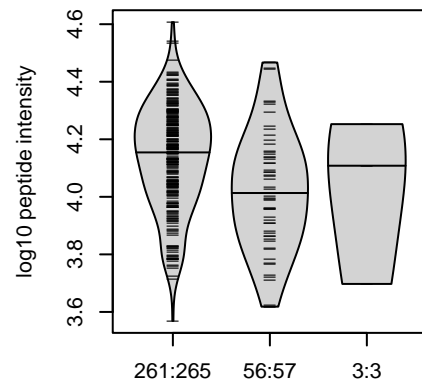
10:88696622:C:G_G
 $p = 0.27$, $\beta = -0.199$, $N = 259$

Q9H8L6 NP2

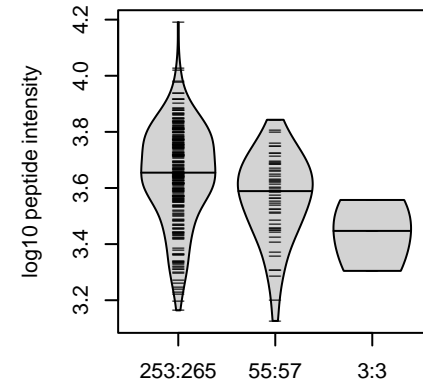
rs34587013
 $p = 1e-04$, $\beta = -0.51$, $N = 325$

EAEPLVDIR pc2

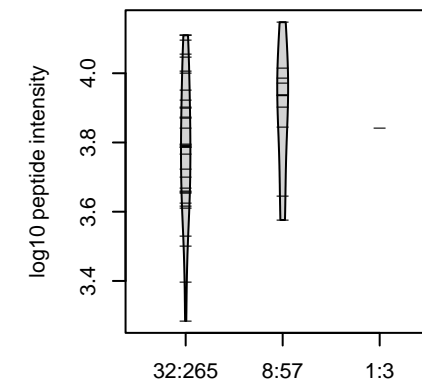
rs34587013
 $p = 9.5e-06$, $\beta = -0.575$, $N = 324$

VWFELTQGSITK pc2

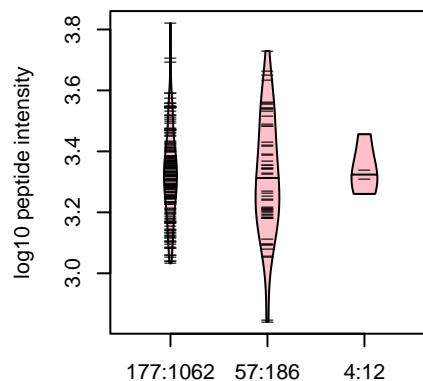
rs34587013
 $p = 0.00032$, $\beta = -0.471$, $N = 320$

SLSGTAFGGFLMFK pc2

rs34587013
 $p = 0.00061$, $\beta = -0.452$, $N = 311$

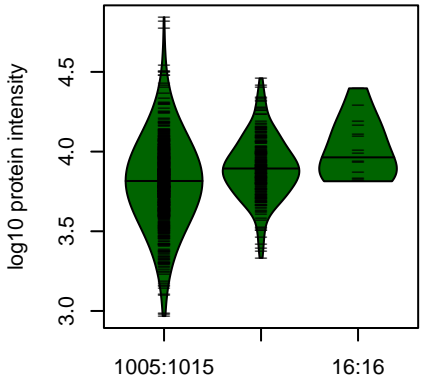
VLTSLAWR pc2

rs34587013
 $p = 0.35$, $\beta = 0.286$, $N = 41$

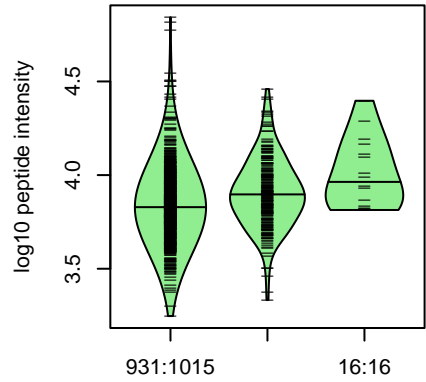
**AEAEDTGKDPVGR pc3
rs3750823 REF**

10:88696622:C:G_G
 $p = 1.1e-05$, $\text{model} = \text{REC}$, $N = 238$

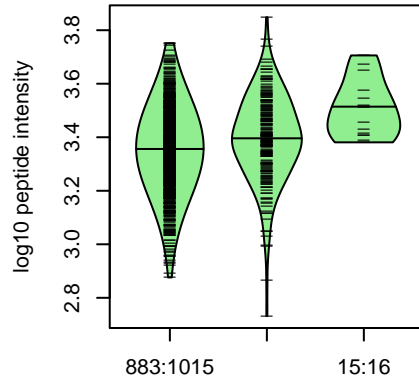
Locus: 196 (Sort: 223)
 Status: Replicated
 80% power: No
 SNP: 10:88696622:C:G
 rsID: rs34587013
 UniProtID: Q9H8L6
 HGNC gene: MMRN2
 Type: Cis-pQTL

TINAGL1 [trans]

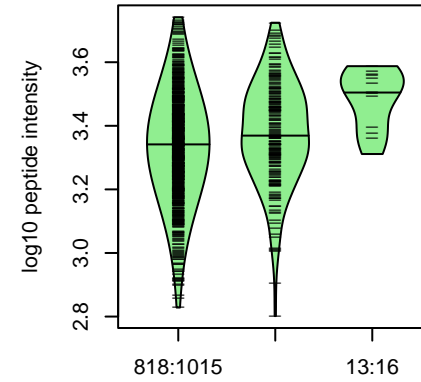
3:186445052:T:G_G
 $p = 2.7e-12$, $\beta = 0.448$, $N = 1247$

ITGWGEETLPDGR pc2

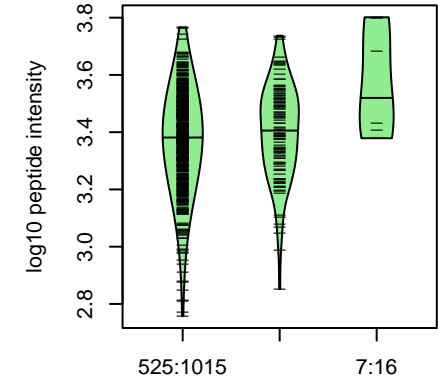
3:186445052:T:G_G
 $p = 2.2e-09$, $\beta = 0.39$, $N = 1168$

VGMEDMGHH pc2

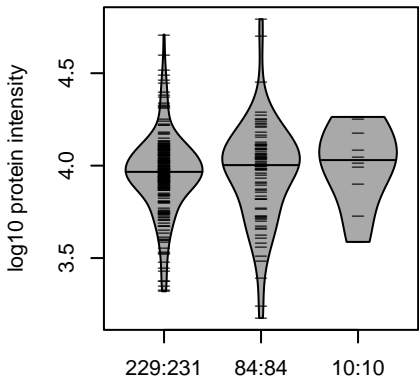
3:186445052:T:G_G
 $p = 5.6e-07$, $\beta = 0.338$, $N = 1104$

GVNECDIESFVLGVWGR pc3

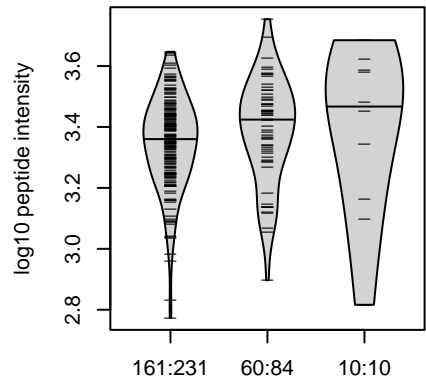
3:186445052:T:G_G
 $p = 4.1e-06$, $\beta = 0.321$, $N = 1030$

YWTAANSWGPAWGER pc2

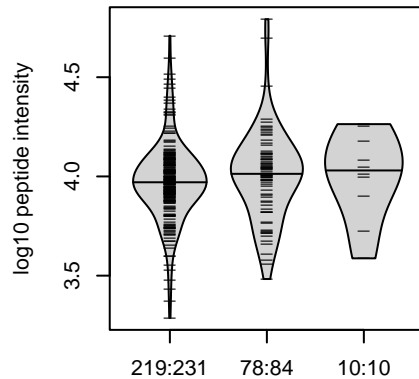
3:186445052:T:G_G
 $p = 0.0014$, $\beta = 0.294$, $N = 645$

Q9GZM7 NP2

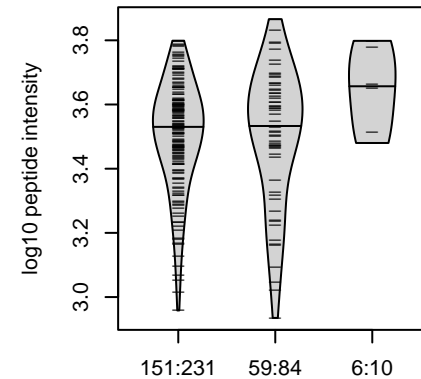
rs2304456
 $p = 0.18$, $\beta = 0.139$, $N = 323$

VGMEDMGHH pc2

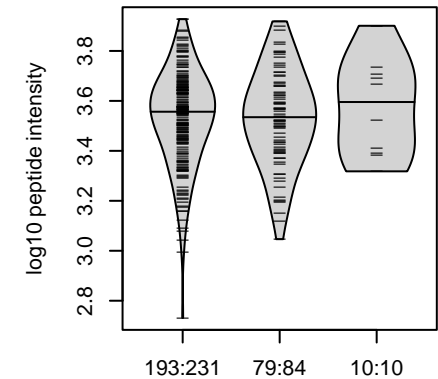
rs2304456
 $p = 0.02$, $\beta = 0.268$, $N = 231$

ITGWGEETLPDGR pc2

rs2304456
 $p = 0.1$, $\beta = 0.173$, $N = 307$

YWTAANSWGPAWGER pc2

rs2304456
 $p = 0.17$, $\beta = 0.173$, $N = 216$

GVNECDIESFVLGVWGR pc3

rs2304456
 $p = 0.41$, $\beta = 0.0879$, $N = 282$

Locus: 197 (Sort: 224)

Status: Not replicated

80% power: No

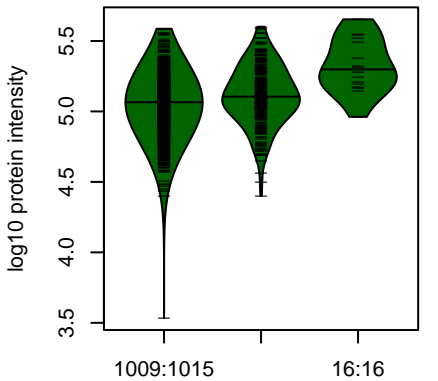
SNP: 3:186445052:T:G

rsID: rs2304456

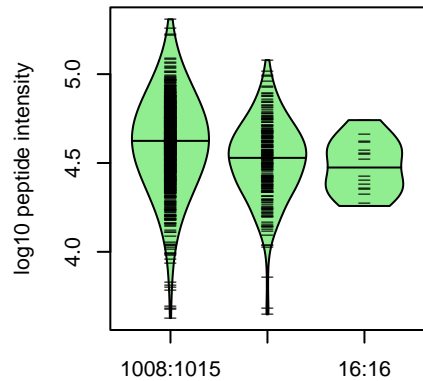
UniProtID: Q9GZM7

HGNC gene: TINAGL1

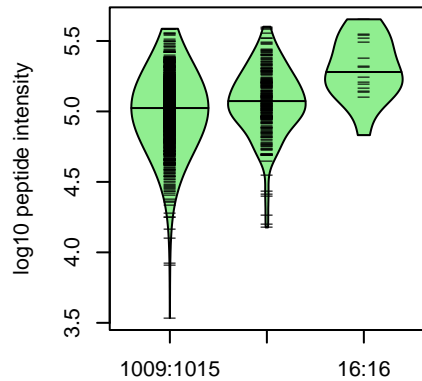
Type: Trans-pQTL

KNG1 [cis]

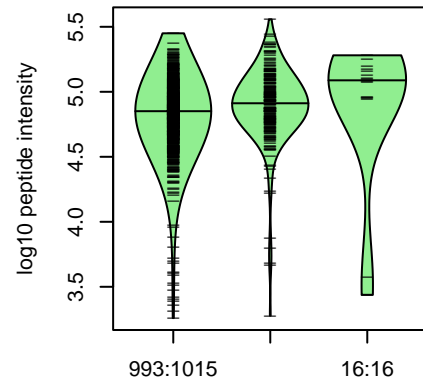
3:186449122:A:G_G
 $p = 2.3e-11$, $\beta = 0.427$, $N = 1254$

TWQDCEYKDKAAK pc3

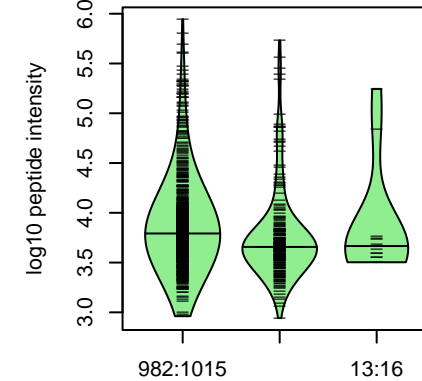
3:186449122:A:G_G
 $p = 1.7e-10$, $\beta = -0.408$, $N = 1253$

AGAEPASEREVS pc2

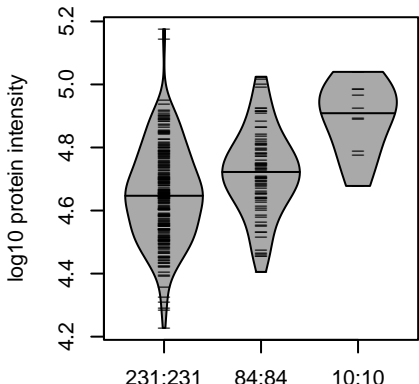
3:186449122:A:G_G
 $p = 1.6e-09$, $\beta = 0.386$, $N = 1254$

AGAEPASER pc2

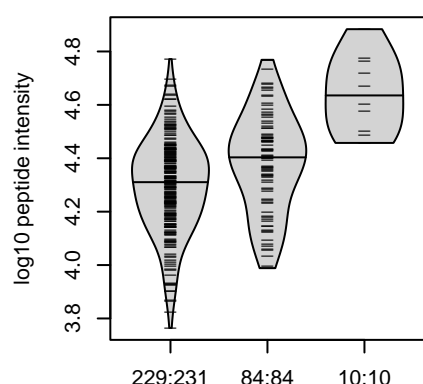
3:186449122:A:G_G
 $p = 2.4e-09$, $\beta = 0.385$, $N = 1234$

LNAENNATFYFK pc2

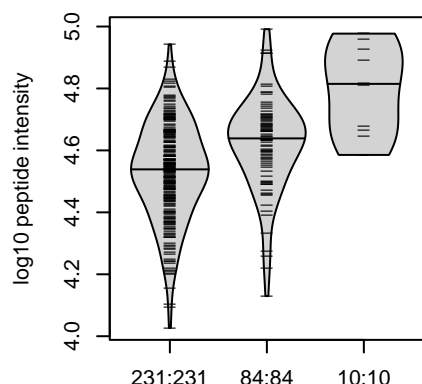
3:186449122:A:G_G
 $p = 4.3e-08$, $\beta = -0.364$, $N = 1215$

P01042 NP3

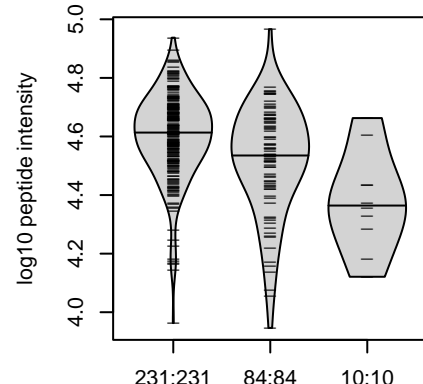
rs5030044
 $p = 7.7e-09$, $\beta = 0.576$, $N = 325$

AGAEPASER pc2

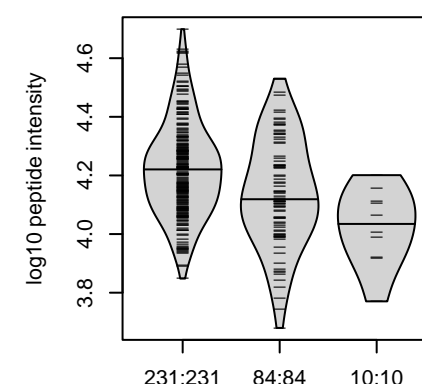
rs5030044
 $p = 3.9e-10$, $\beta = 0.631$, $N = 323$

EETTSHLR pc2

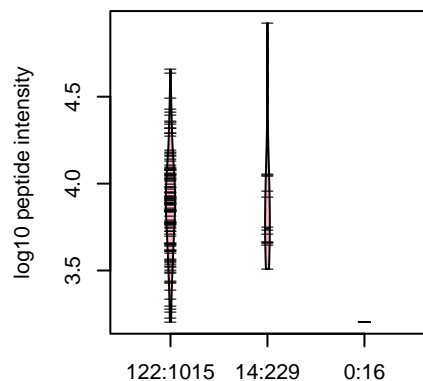
rs5030044
 $p = 1.5e-09$, $\beta = 0.61$, $N = 325$

TVGSDFYFSFKYEIK pc3

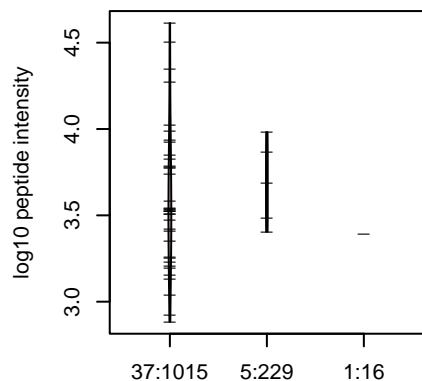
rs5030044
 $p = 5.3e-07$, $\beta = -0.51$, $N = 325$

AVDAALKK pc2

rs5030044
 $p = 5.4e-07$, $\beta = -0.51$, $N = 325$

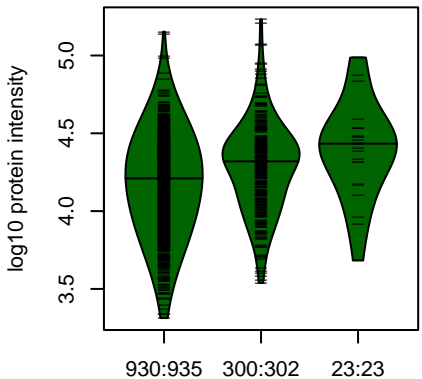
**HGIQYFNNNTQHSSLFTLNEVK pc4
rs1656922 ALT**

3:186449122:A:G_G
 $p = 0.0039$, $\text{model} = \text{REC}$, $N = 136$

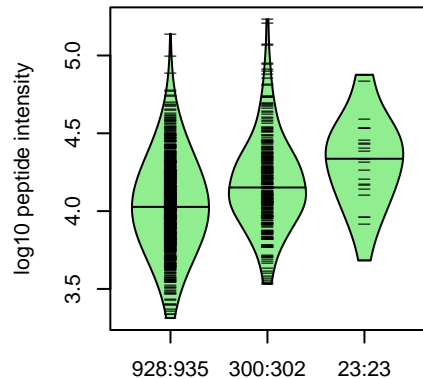
**HGIQYFNNNTQHSSLFMLNEVK pc4
rs1656922 REF**

3:186449122:A:G_G
 $p = 0.43$, $\text{model} = \text{DOM}$, $N = 43$

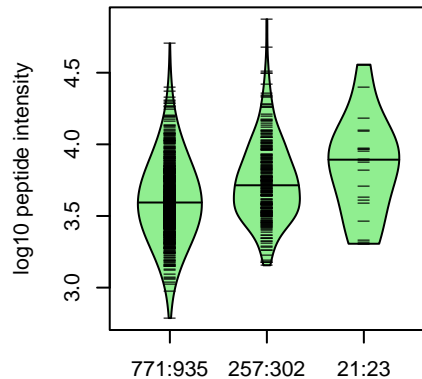
Locus: 197 (Sort: 225)
 Status: Replicated
 80% power: No
 SNP: 3:186449122:A:G
 rsID: rs5030044
 UniProtID: P01042
 HGNC gene: KNG1
 Type: Cis-pQTL

CDH15 [cis]

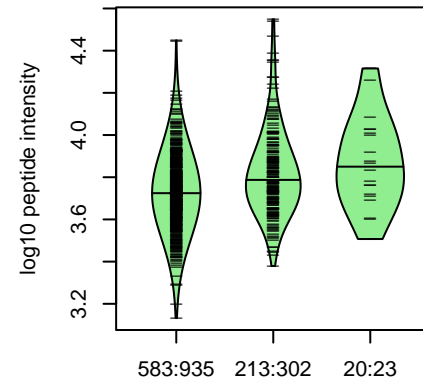
16:89199108:G:A_A
 $p = 2.8e-12$, $\beta = 0.4$, $N = 1253$

VLEGAVPGTYVTR pc2

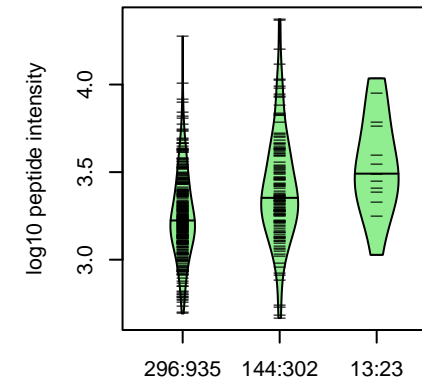
16:89199108:G:A_A
 $p = 1.4e-21$, $\beta = 0.542$, $N = 1251$

VFLNAMLDR pc2

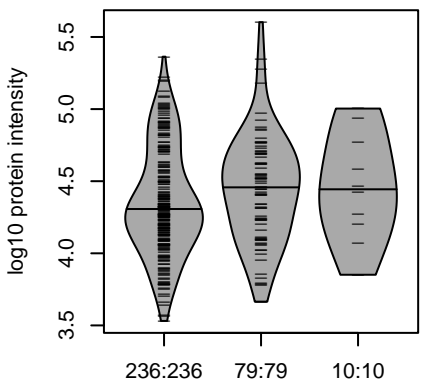
16:89199108:G:A_A
 $p = 9.1e-16$, $\beta = 0.493$, $N = 1049$

ALDYESCEHYELK pc3

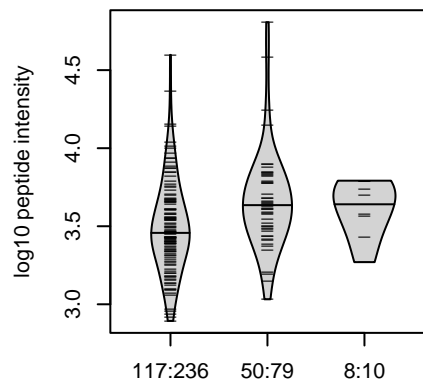
16:89199108:G:A_A
 $p = 9e-12$, $\beta = 0.457$, $N = 816$

IQTQHVLSASPFLK pc3

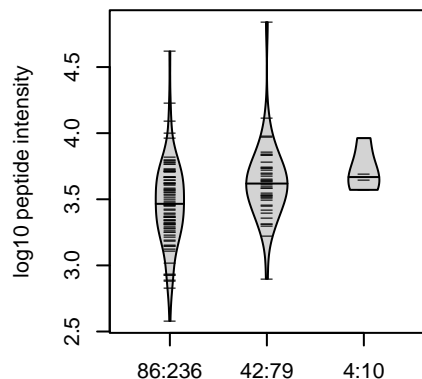
16:89199108:G:A_A
 $p = 2.4e-11$, $\beta = 0.562$, $N = 453$

P55291 NP2

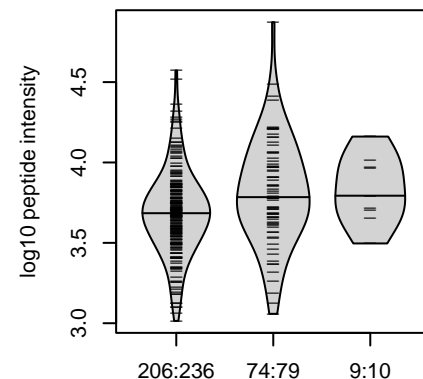
rs11646135
 $p = 0.1$, $\beta = 0.172$, $N = 325$

AIVLAQDDASQPR pc2

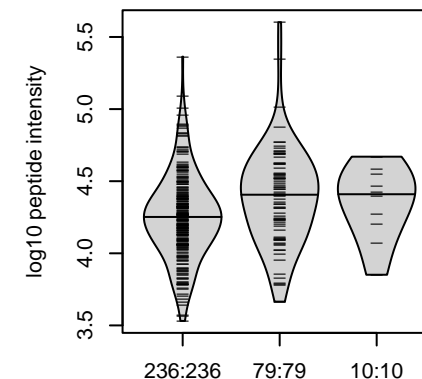
rs11646135
 $p = 0.00034$, $\beta = 0.457$, $N = 175$

IQTQHVLSASPFLK pc3

rs11646135
 $p = 0.00039$, $\beta = 0.542$, $N = 132$

VFLNAMLDR pc2

rs11646135
 $p = 0.00072$, $\beta = 0.368$, $N = 289$

VLEGAVPGTYVTR pc2

rs11646135
 $p = 0.0011$, $\beta = 0.341$, $N = 325$

Locus: 198 (Sort: 226)

Status: Not replicated

80% power: No

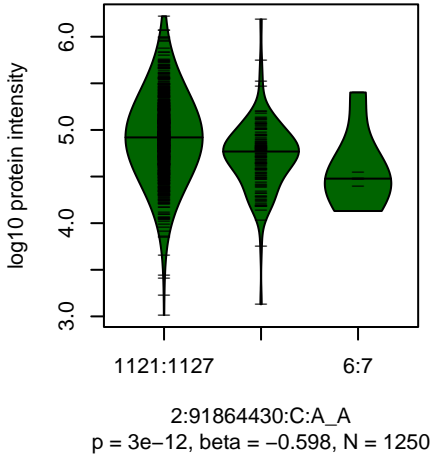
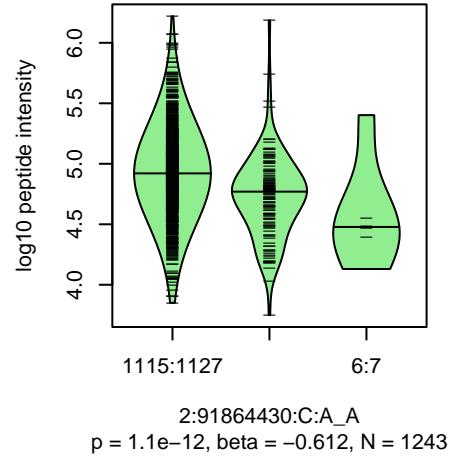
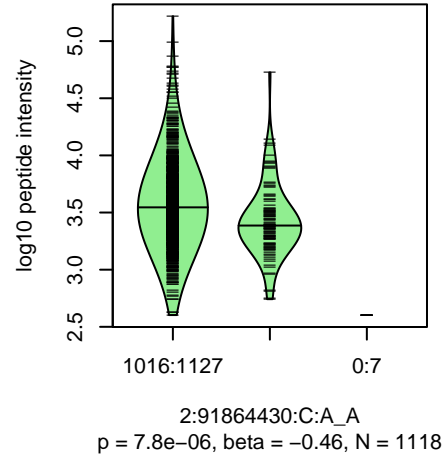
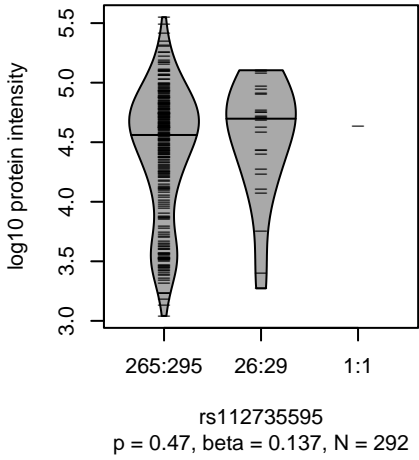
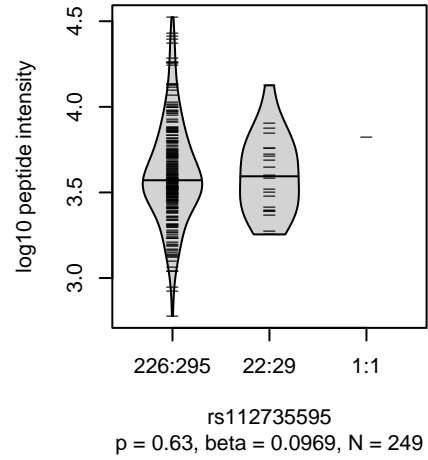
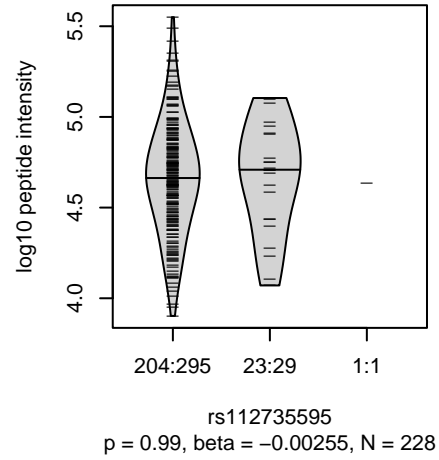
SNP: 16:89199108:G:A

rsID: rs11646135

UniProtID: P55291

HGNC gene: CDH15

Type: Cis-pQTL

IGKV1-17 [cis]**NDLGWYQQK pc2****LIYAASSLQSGVPSR pc2****P01599 NP3****LIYAASSLQSGVPSR pc2****NDLGWYQQK pc2**

Locus: 199 (Sort: 227)

Status: Not replicated

80% power: No

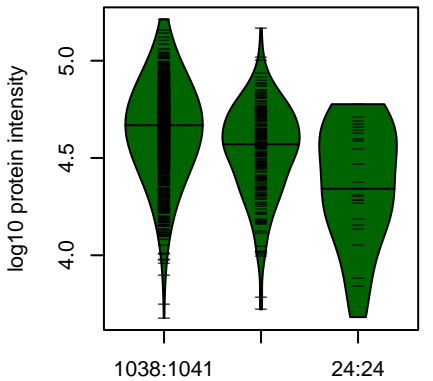
SNP: 2:91864430:C:A

rsID: rs112735595

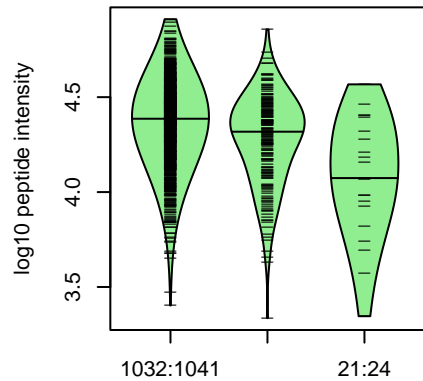
UniProtID: P01599

HGNC gene: IGKV1-17

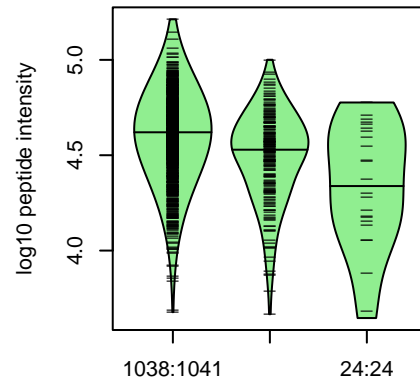
Type: Cis-pQTL

TCN2 [cis]

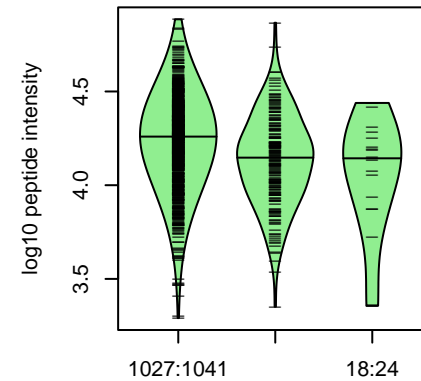
22:31023893:C:T_T
 $p = 4e-12$, $\beta = -0.439$, $N = 1256$

LSSLQAGTK pc2

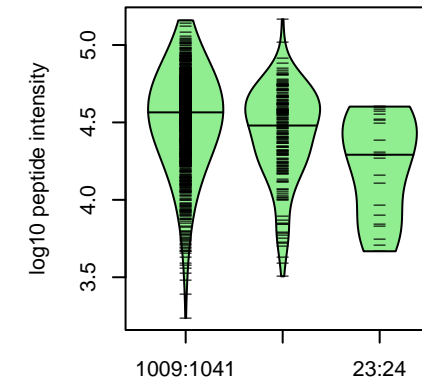
22:31023893:C:T_T
 $p = 1.7e-12$, $\beta = -0.46$, $N = 1240$

TYIDLIFPDCLAPR pc2

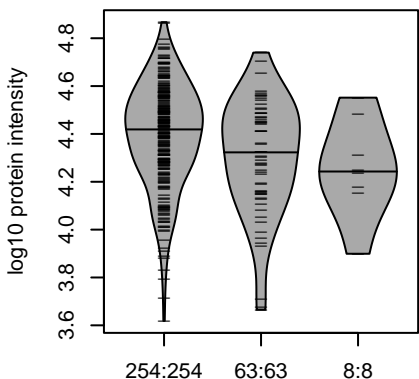
22:31023893:C:T_T
 $p = 1.7e-11$, $\beta = -0.426$, $N = 1256$

TVREEILK pc2

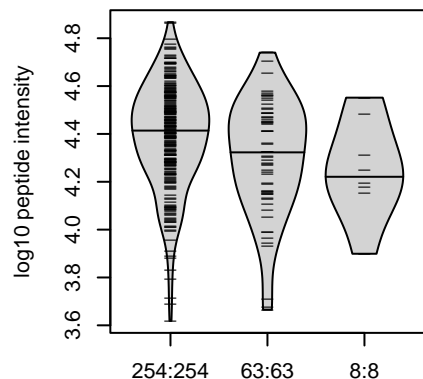
22:31023893:C:T_T
 $p = 5.6e-09$, $\beta = -0.387$, $N = 1237$

DGETIELR pc2

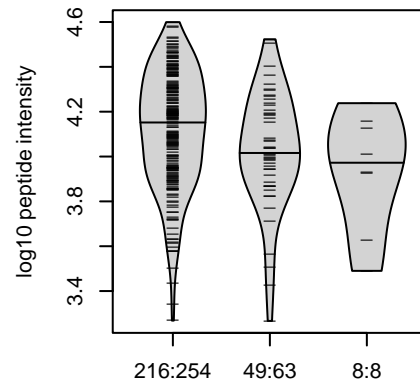
22:31023893:C:T_T
 $p = 2e-08$, $\beta = -0.362$, $N = 1220$

F8WE86 NP1

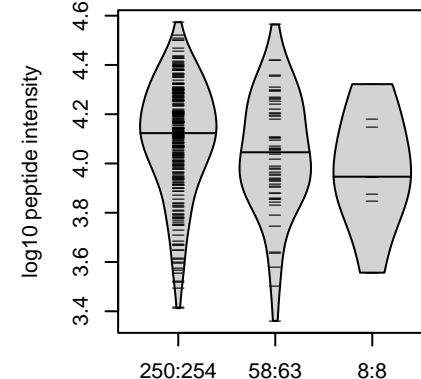
rs8135379
 $p = 0.0022$, $\beta = -0.344$, $N = 325$

TYIDLIFPDCLAPR pc2

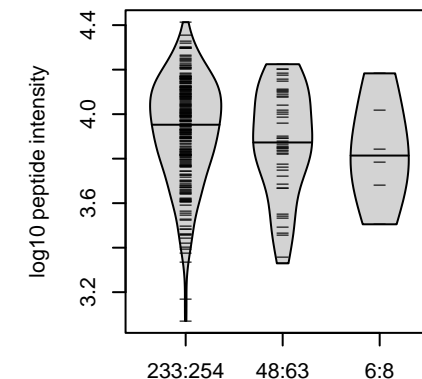
rs8135379
 $p = 0.0022$, $\beta = -0.346$, $N = 325$

EDLYLHSLK pc2

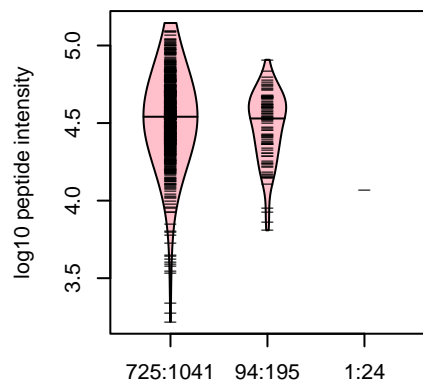
rs8135379
 $p = 0.0075$, $\beta = -0.324$, $N = 273$

WFLEDEK pc2

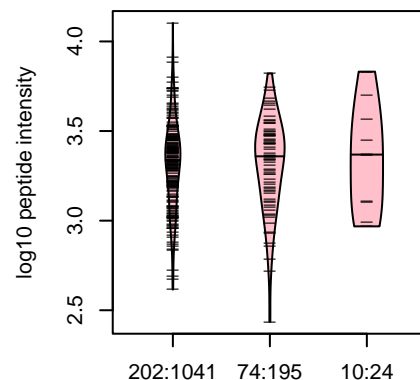
rs8135379
 $p = 0.043$, $\beta = -0.234$, $N = 316$

.YAVEPFHQGHHSVDTAAMAGLAFTCL

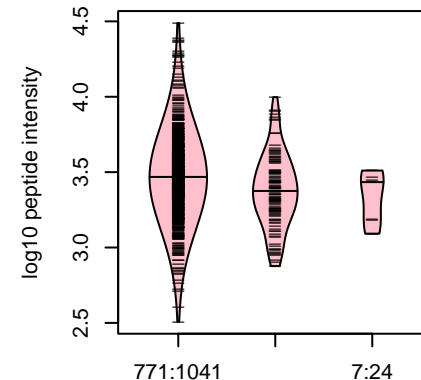
rs8135379
 $p = 0.071$, $\beta = -0.23$, $N = 287$

**GAELGTACK pc2
rs1801198 REF**

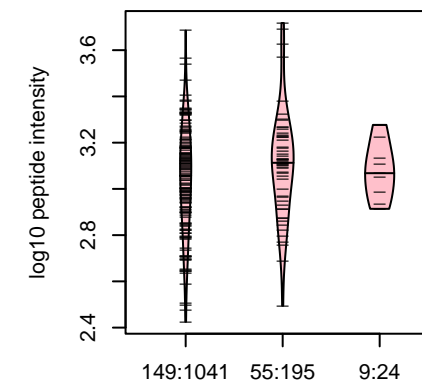
22:31023893:C:T_T
 $p = 5.6e-13$, $\text{model} = \text{REC}$, $N = 820$

**QSIFVLGASTVEDVLK pc2
rs9621049 ALT**

22:31023893:C:T_T
 $p = 8.2e-09$, $\text{model} = \text{REC}$, $N = 286$

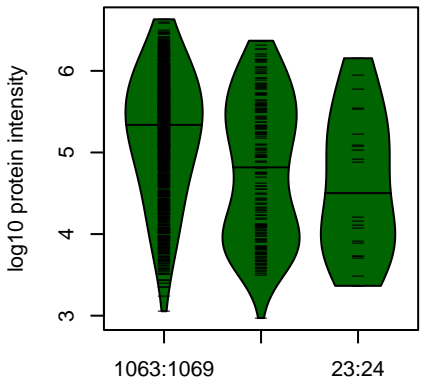
**QSISVLGASTVEDVLKK pc3
rs9621049 REF**

22:31023893:C:T_T
 $p = 2e-08$, $\text{model} = \text{REC}$, $N = 890$

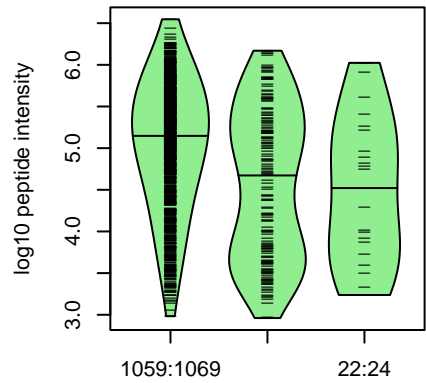
**QSIFVLGASTVEDVLKK pc3
rs9621049 ALT**

22:31023893:C:T_T
 $p = 4.8e-07$, $\text{model} = \text{REC}$, $N = 213$

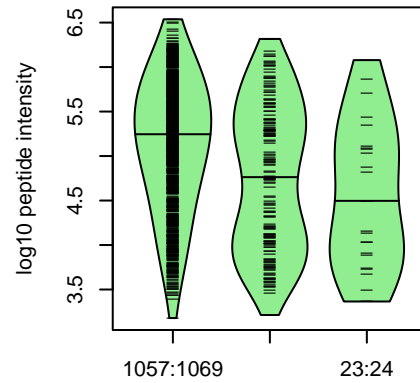
Locus: 200 (Sort: 228)
 Status: Not replicated
 80% power: No
 SNP: 22:31023893:C:T
 rsID: rs8135379
 UniProtID: F8WE86
 HGNC gene: TCN2
 Type: Cis-pQTL

FCN3 [cis]

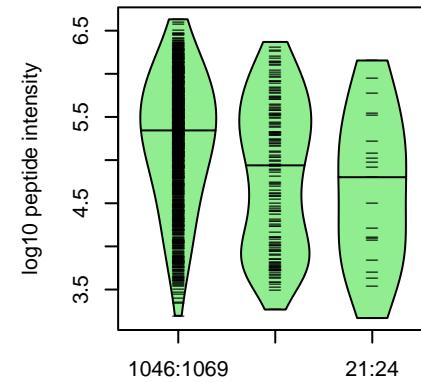
1:27709858:G:T_T
 $p = 4.1e-12$, $\beta = -0.459$, $N = 1252$

YAVSEAAAHK pc2

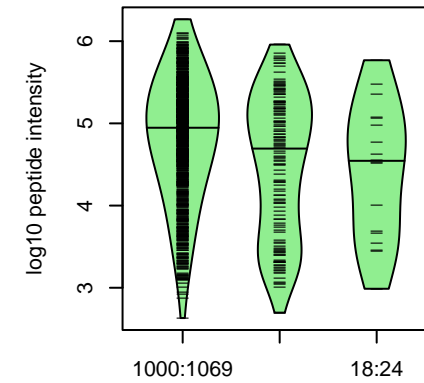
1:27709858:G:T_T
 $p = 6e-12$, $\beta = -0.46$, $N = 1246$

LLGEVDHYQLALGK pc3

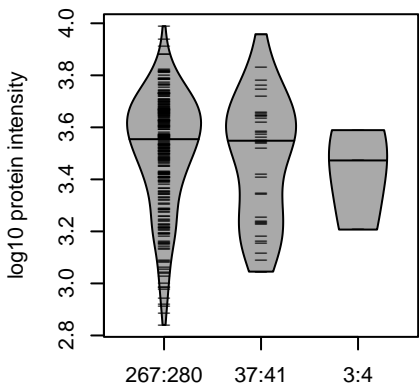
1:27709858:G:T_T
 $p = 6.4e-11$, $\beta = -0.436$, $N = 1242$

YGIDWASGR pc2

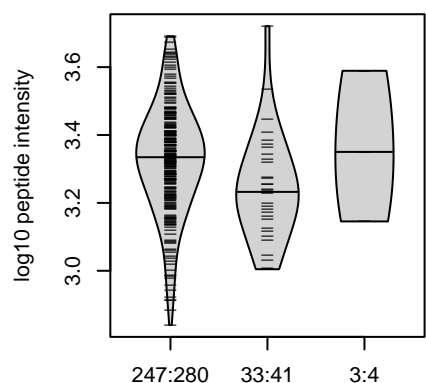
1:27709858:G:T_T
 $p = 8e-10$, $\beta = -0.422$, $N = 1222$

ALPVFCMDMTEGGGWLVFQR pc3

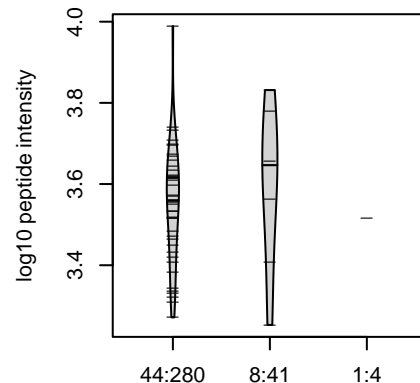
1:27709858:G:T_T
 $p = 1.2e-06$, $\beta = -0.354$, $N = 1157$

O75636 NP3

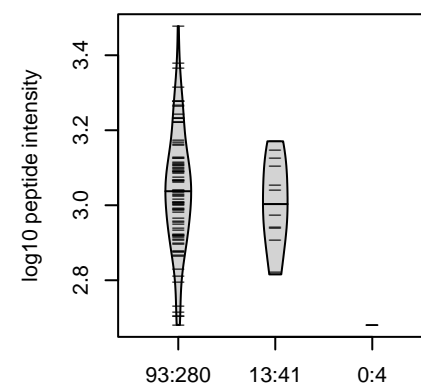
rs734725
 $p = 0.27$, $\beta = -0.167$, $N = 307$

YAVSEAAAHK pc2

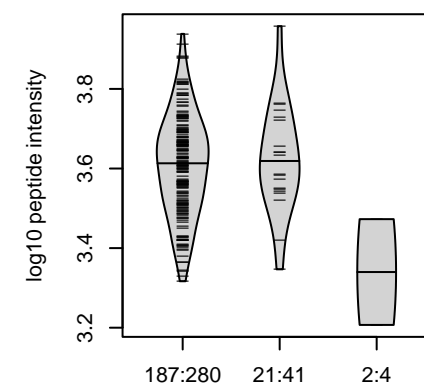
rs734725
 $p = 0.039$, $\beta = -0.322$, $N = 283$

YGIDWASGR pc2

rs734725
 $p = 0.6$, $\beta = 0.16$, $N = 53$

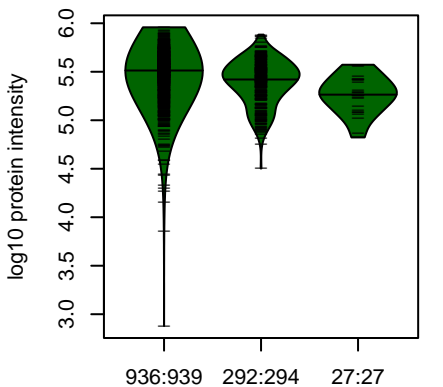
ALPVFCMDMTEGGGWLVFQR pc3

rs734725
 $p = 0.67$, $\beta = -0.123$, $N = 106$

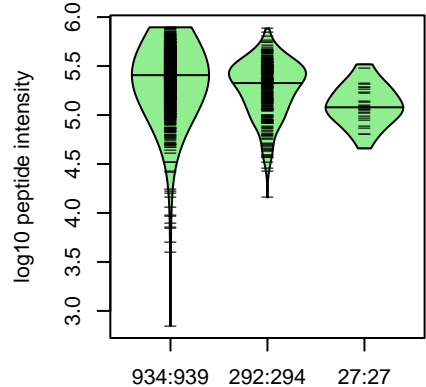
LLGEVDHYQLALGK pc3

rs734725
 $p = 0.71$, $\beta = -0.0714$, $N = 210$

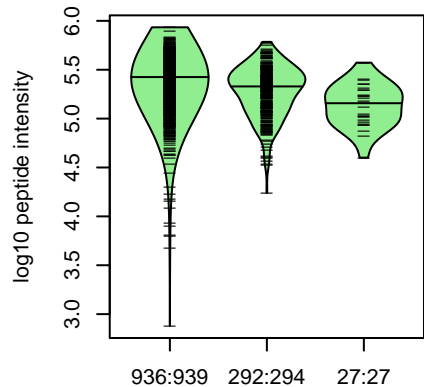
Locus: 201 (Sort: 229)
 Status: Not replicated
 80% power: No
 SNP: 1:27709858:G:T
 rsID: rs734725
 UniProtID: O75636
 HGNC gene: FCN3
 Type: Cis-pQTL

MST1 [cis]

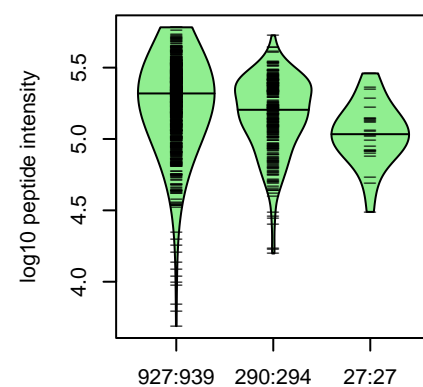
3:48695834:T:C_C
 $p = 4.2e-12$, $\beta = -0.392$, $N = 1255$

VVGHPGNSPWTVSLR pc3

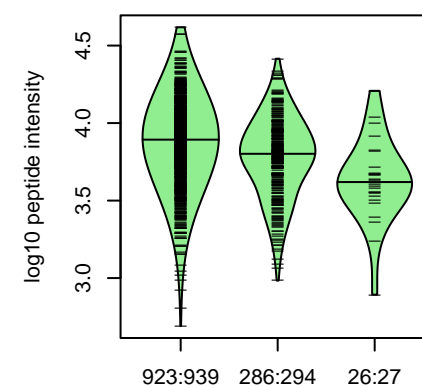
3:48695834:T:C_C
 $p = 2.5e-12$, $\beta = -0.396$, $N = 1253$

MVCGPSGSQLVLLK pc2

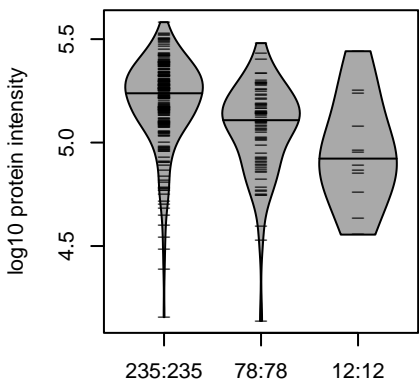
3:48695834:T:C_C
 $p = 4.6e-12$, $\beta = -0.391$, $N = 1255$

CEIAGWGETK pc2

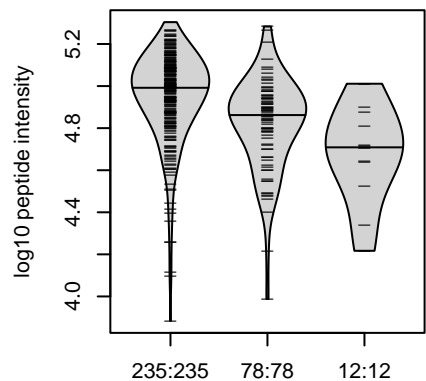
3:48695834:T:C_C
 $p = 5.4e-12$, $\beta = -0.391$, $N = 1244$

QQQHFCGGSLVK pc2

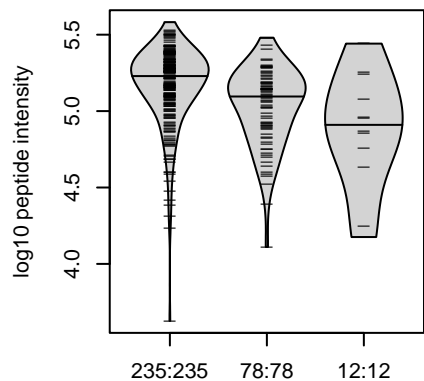
3:48695834:T:C_C
 $p = 6e-11$, $\beta = -0.375$, $N = 1235$

G3XAK1 NP3

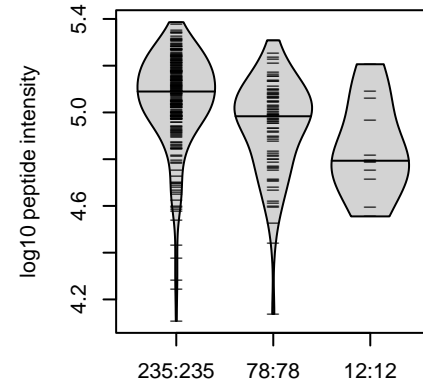
rs73078357
 $p = 1.1e-08$, $\beta = -0.557$, $N = 325$

CEIAGWGETK pc3

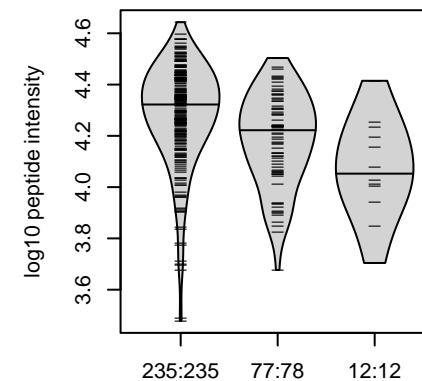
rs73078357
 $p = 5.2e-09$, $\beta = -0.58$, $N = 325$

VVGHPGNSPWTVSLR pc3

rs73078357
 $p = 5.1e-08$, $\beta = -0.543$, $N = 325$

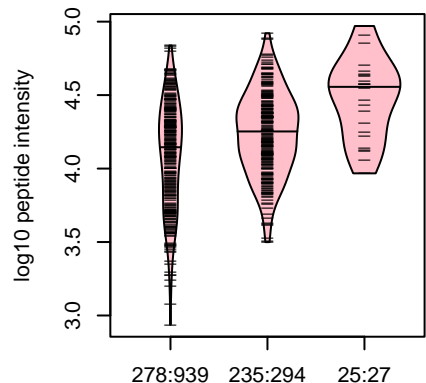
MVCGPSGSQLVLLK pc2

rs73078357
 $p = 7.4e-08$, $\beta = -0.537$, $N = 325$

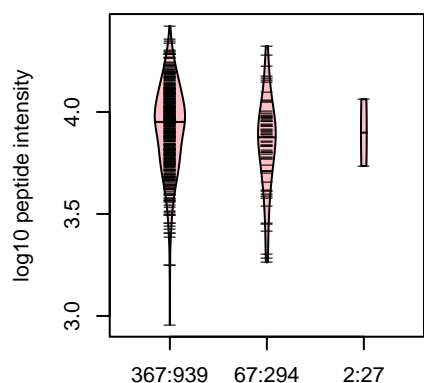
CGPLMDCR pc2

rs73078357
 $p = 1.4e-07$, $\beta = -0.526$, $N = 324$

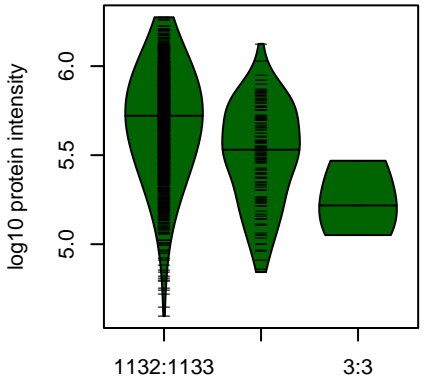
Locus: 202 (Sort: 230)
 Status: Replicated
 80% power: No
 SNP: 3:48695834:T:C
 rsID: rs73078357
 UniProtID: G3XAK1
 HGNC gene: MST1
 Type: Cis-pQTL

**SCWPAVFTR pc2
rs3197999 ALT**

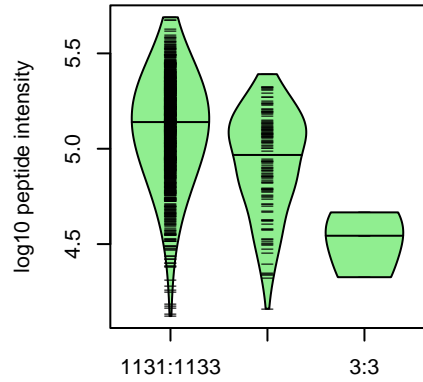
3:48695834:T:C_C
 $p = 1e-59$, $\text{model} = \text{REC}$, $N = 538$

**WPAVFTR pc2
rs3197999 REF**

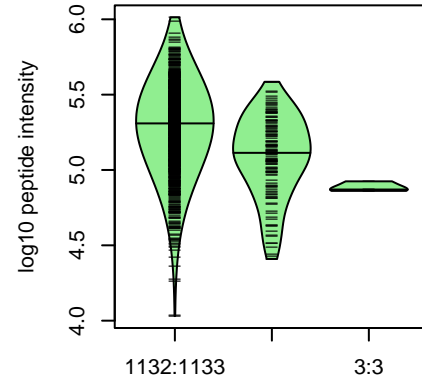
3:48695834:T:C_C
 $p = 6.2e-09$, $\text{model} = \text{REC}$, $N = 436$

CFB [cis]

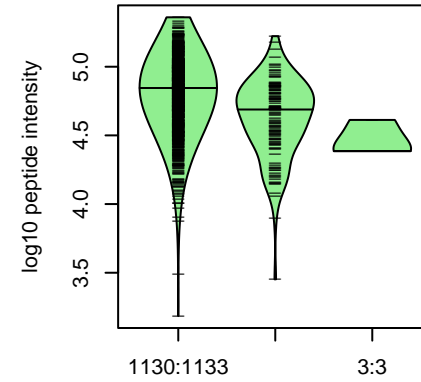
6:31878108:C:T_T
 $p = 4.2e-12$, $\beta = -0.618$, $N = 1259$

STGSWSTLK pc2

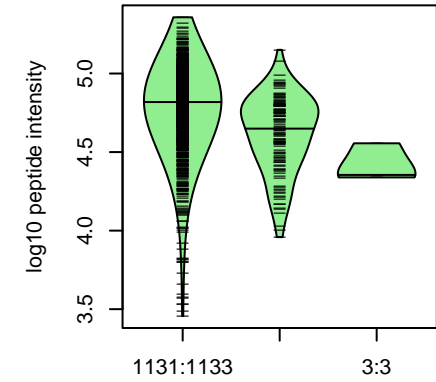
6:31878108:C:T_T
 $p = 2.6e-14$, $\beta = -0.677$, $N = 1258$

YGLVTYATYPK pc2

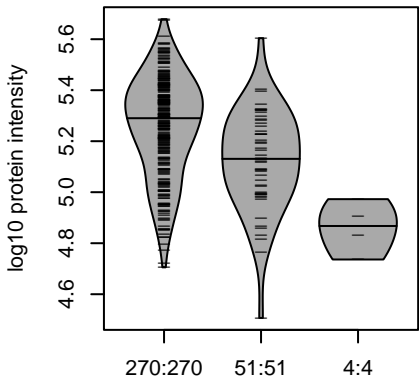
6:31878108:C:T_T
 $p = 3e-14$, $\beta = -0.676$, $N = 1259$

LEDSVTYHCSR pc3

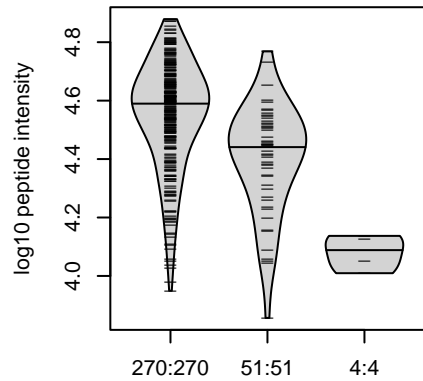
6:31878108:C:T_T
 $p = 3.1e-13$, $\beta = -0.649$, $N = 1257$

QLNEINYEDHK pc3

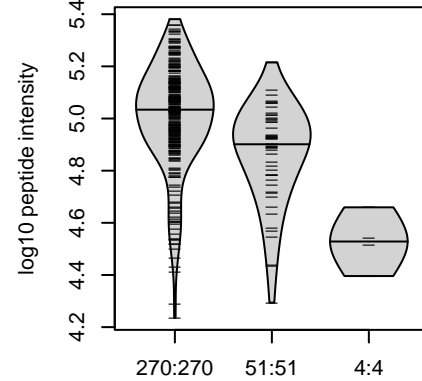
6:31878108:C:T_T
 $p = 7.8e-13$, $\beta = -0.638$, $N = 1258$

B4E1Z4 NP4

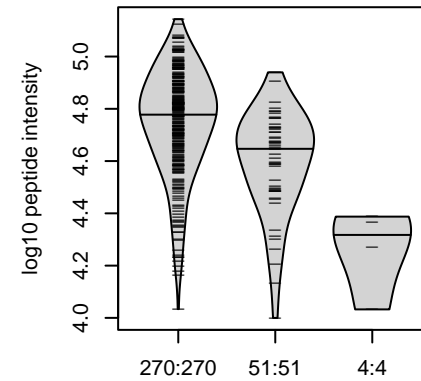
rs6457457
 $p = 7.1e-07$, $\beta = -0.647$, $N = 325$

QLNEINYEDHK pc3

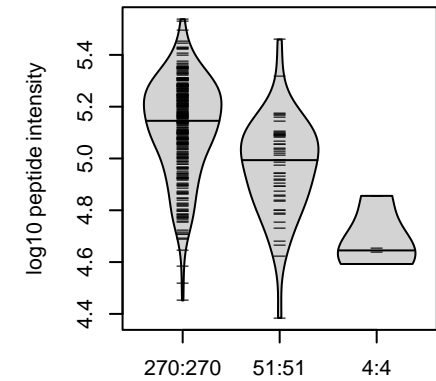
rs6457457
 $p = 2.8e-09$, $\beta = -0.762$, $N = 325$

LPPTTCQQQK pc2

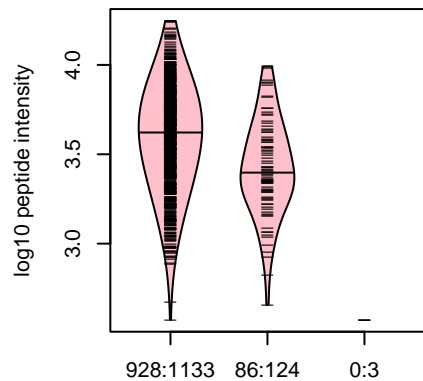
rs6457457
 $p = 1.7e-08$, $\beta = -0.725$, $N = 325$

VSEADSSNADWVTK pc2

rs6457457
 $p = 2.1e-08$, $\beta = -0.721$, $N = 325$

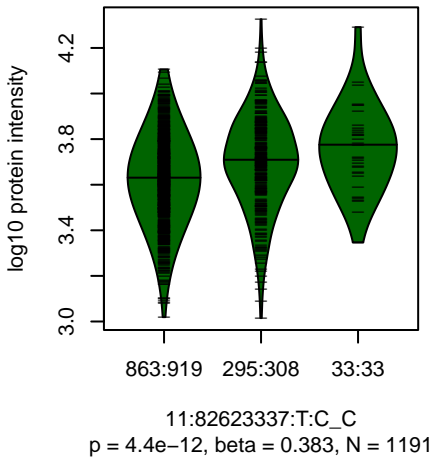
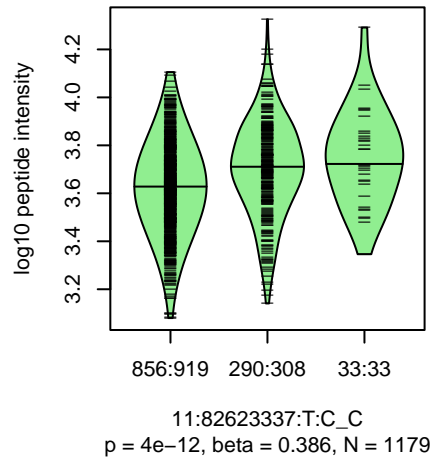
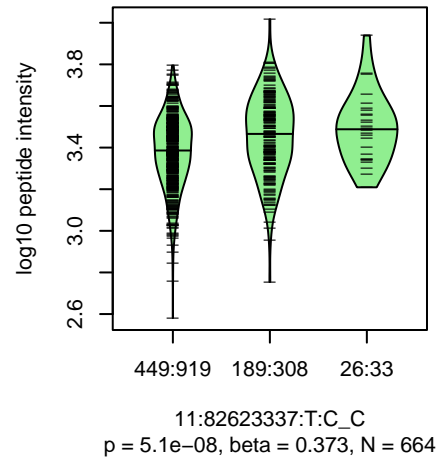
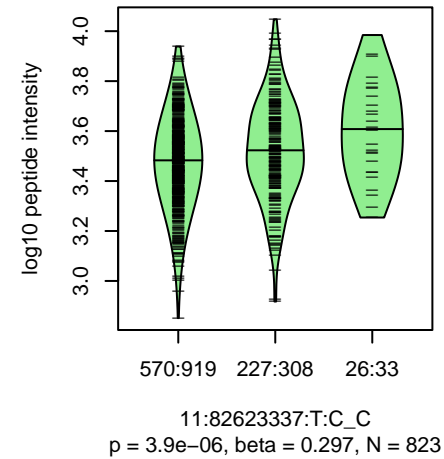
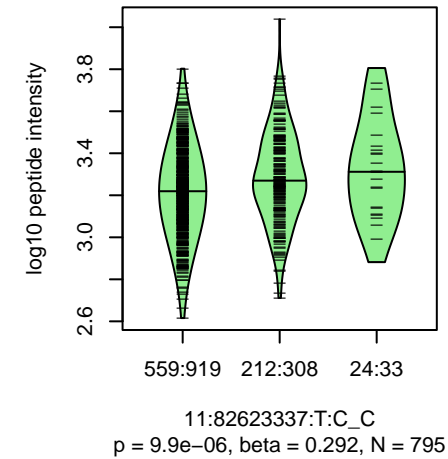
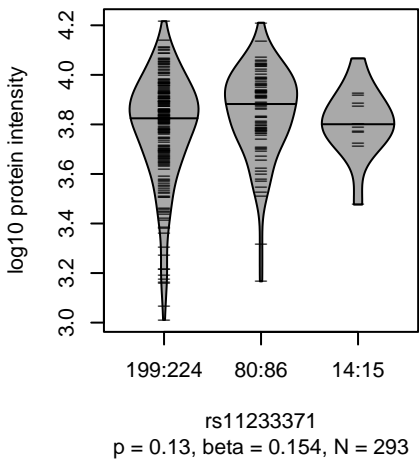
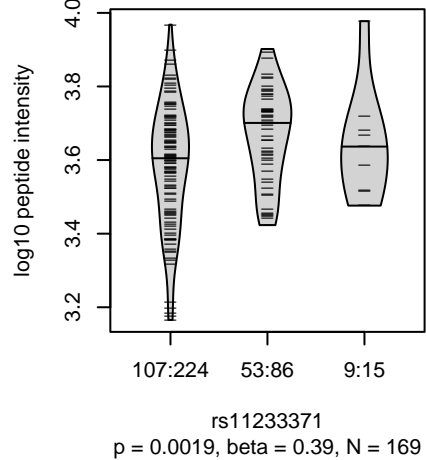
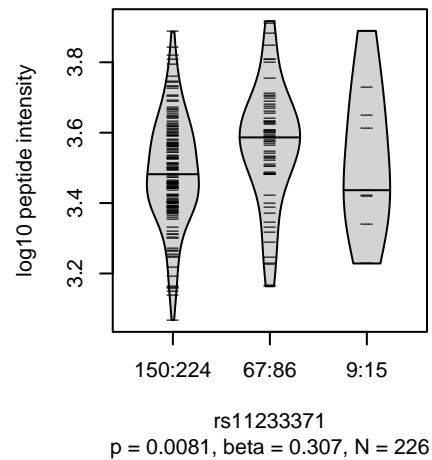
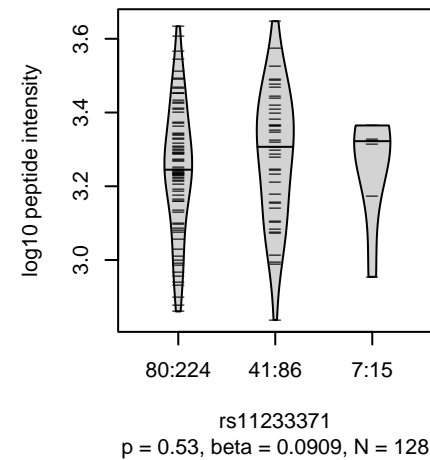
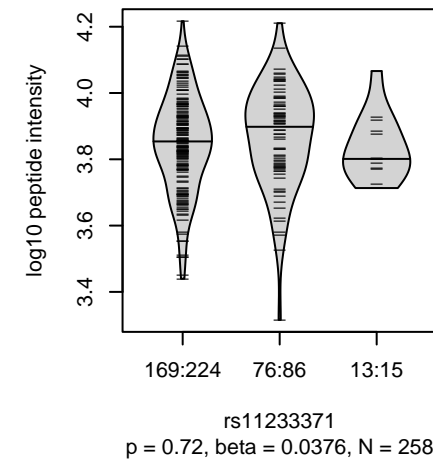
YGLVTYATYPK pc2

rs6457457
 $p = 2.3e-08$, $\beta = -0.719$, $N = 325$

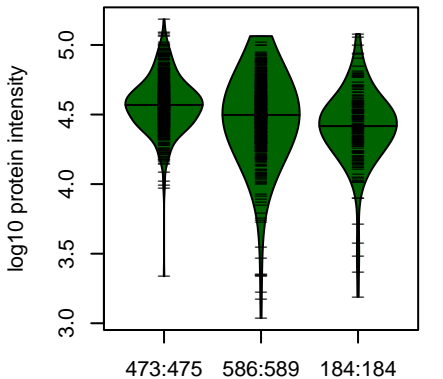
**PQSCSLEGVEIK pc2
rs12614;rs641153 REF**

6:31878108:C:T_T
 $p = 0.00034$, $\text{model} = \text{REC}$, $N = 1014$

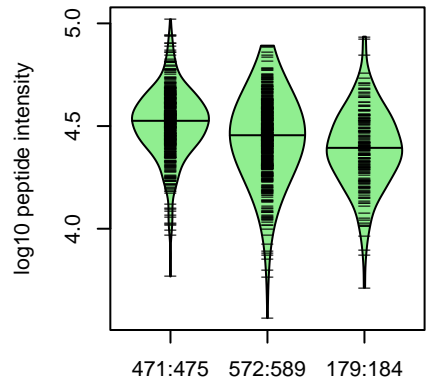
Locus: 203 (Sort: 231)
 Status: Replicated
 80% power: No
 SNP: 6:31878108:C:T
 rsID: rs6457457
 UniProtID: B4E1Z4
 HGNC gene: CFB
 Type: Cis-pQTL

PRCP [cis]**NALDPMSVLLAR pc2****YYGESLPFGDNSFK pc2****DITDTLVAVTISEGAHHLDLR pc3****HLNFLTSEQALADFAELIK pc3****P42785 NP5****YYGESLPFGDNSFK pc2****DITDTLVAVTISEGAHHLDLR pc3****HLNFLTSEQALADFAELIK pc3****NALDPMSVLLAR pc2**

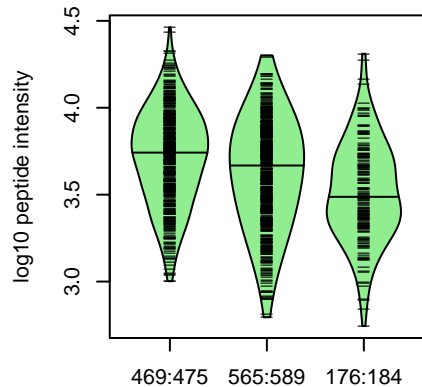
Locus: 204 (Sort: 232)
 Status: Not replicated
 80% power: No
 SNP: 11:82623337:T:C
 rsID: rs11233371
 UniProtID: P42785
 HGNC gene: PRCP
 Type: Cis-pQTL

HLA-B [cis]

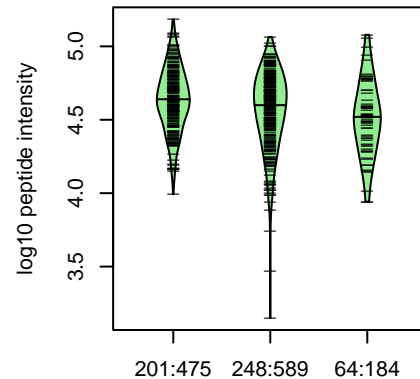
6:32549356:T:C_C
 $p = 4.8e-12$, $\beta = -0.281$, $N = 1243$

FDSAASPR pc2

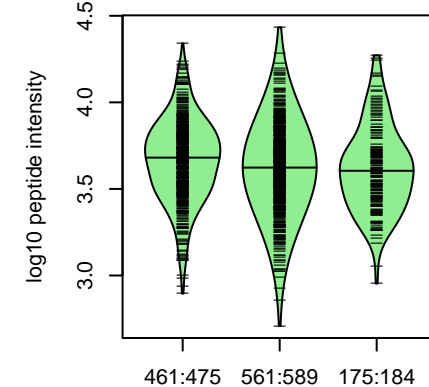
6:32549356:T:C_C
 $p = 2.2e-13$, $\beta = -0.299$, $N = 1222$

SWTAADTAAQITQR pc2

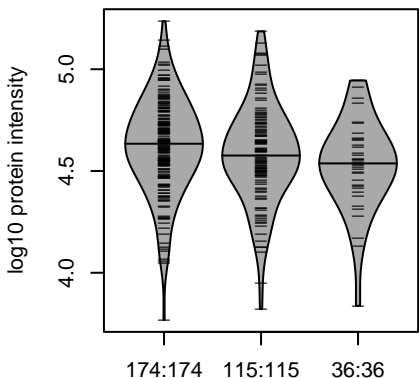
6:32549356:T:C_C
 $p = 1.9e-12$, $\beta = -0.29$, $N = 1210$

DYIALNEDLR pc2

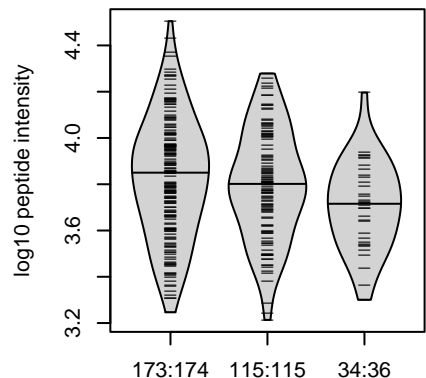
6:32549356:T:C_C
 $p = 0.0017$, $\beta = -0.205$, $N = 513$

DGEDQTQDTELVETRPAGDR pc3

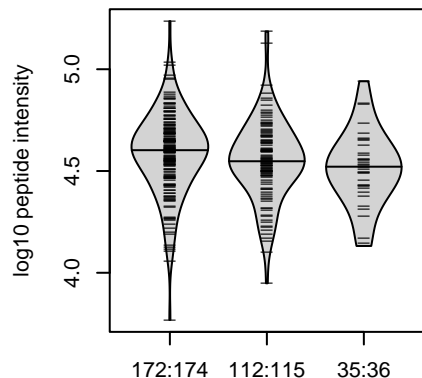
6:32549356:T:C_C
 $p = 0.013$, $\beta = -0.103$, $N = 1197$

P01889 NP2

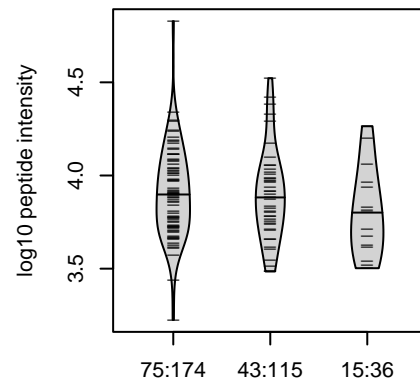
rs2308818
 $p = 0.03$, $\beta = -0.173$, $N = 325$

SWTAADTAAQITQR pc2

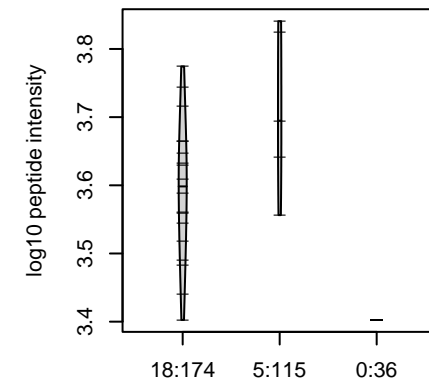
rs2308818
 $p = 0.017$, $\beta = -0.193$, $N = 322$

FDSAASPR pc2

rs2308818
 $p = 0.023$, $\beta = -0.184$, $N = 319$

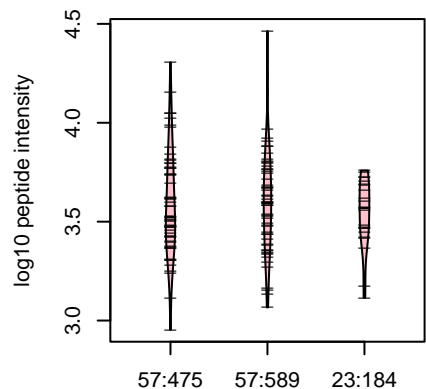
THVTHHPISDHEATLR pc4

rs2308818
 $p = 0.15$, $\beta = -0.177$, $N = 133$

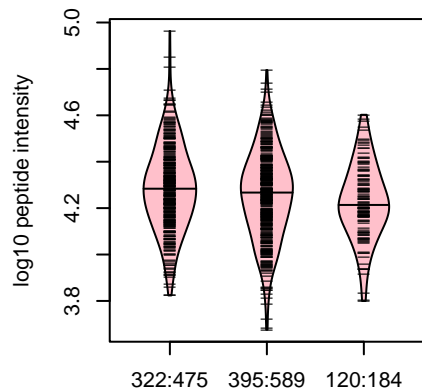
RAYLEGECVEWLR pc3

rs2308818
 $p = 0.21$, $\beta = 0.583$, $N = 23$

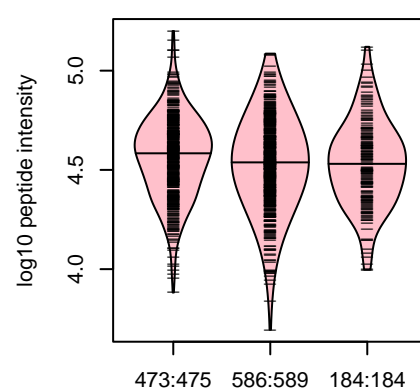
Locus: 206 (Sort: 234)
 Status: Not replicated
 80% power: No
 SNP: 6:32549356:T:C
 rsID: rs2308818
 UniProtID: P01889
 HGNC gene: HLA-B
 Type: Cis-pQTL

**GEPRFISGVYDDTQFVR pc3
rs1050437 REF**

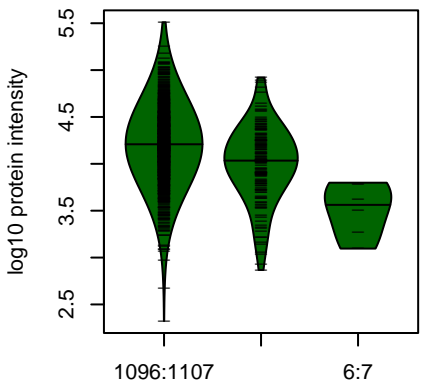
6:32549356:T:C_C
 $p = 0.4$, model = REC, $N = 137$

**FISVG YVDDTQFVR pc2
rs1050437 REF**

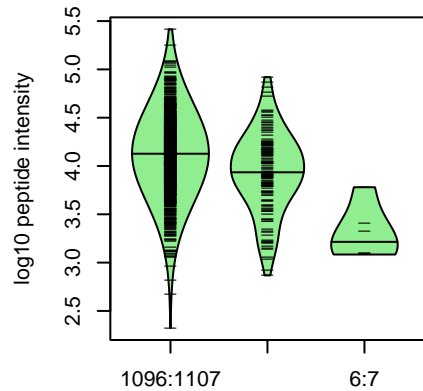
6:32549356:T:C_C
 $p = 0.55$, model = DOM, $N = 846$

**WAAVVVPSGEEQR pc2
rs707908;rs1736924 ALT**

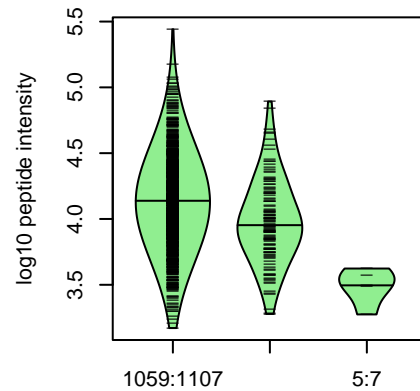
6:32549356:T:C_C
 $p = 1$, model = DOM, $N = 1255$

SFTPD [cis]

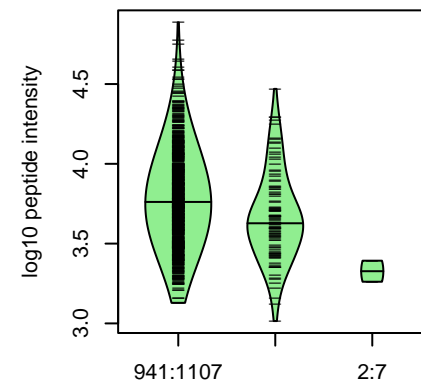
10:81716268:C:A_A
 $p = 5.5e-12$, $\beta = -0.567$, $N = 1240$

SAAENAALQQLVVAK pc2

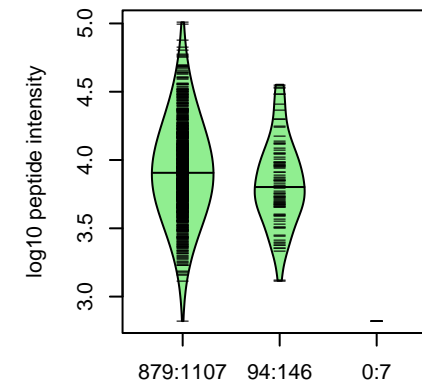
10:81716268:C:A_A
 $p = 2.5e-10$, $\beta = -0.521$, $N = 1240$

NEAAFLSMTDSK pc2

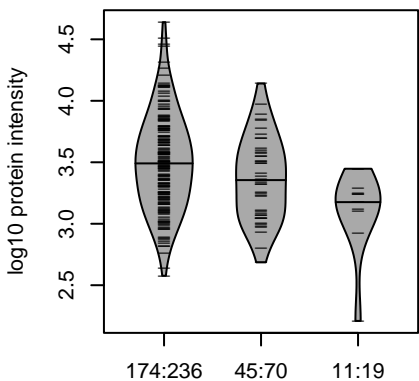
10:81716268:C:A_A
 $p = 4.3e-08$, $\beta = -0.481$, $N = 1186$

QGNIGPQGK pc2

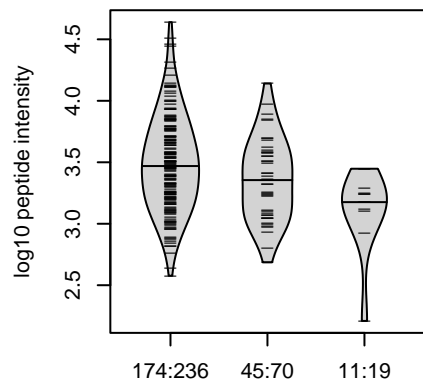
10:81716268:C:A_A
 $p = 2.6e-06$, $\beta = -0.462$, $N = 1048$

KVELFPNGQSVGEK pc3

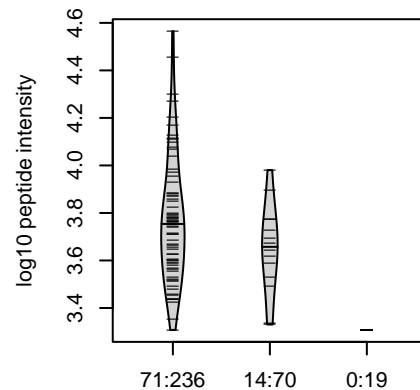
10:81716268:C:A_A
 $p = 0.0013$, $\beta = -0.348$, $N = 973$

P35247 NP5

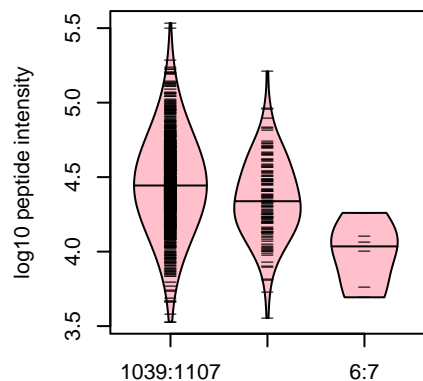
rs10887238
 $p = 0.04$, $\beta = -0.245$, $N = 230$

SAAENAALQQLVVAK pc2

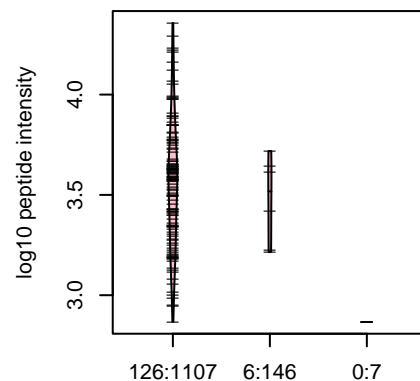
rs10887238
 $p = 0.037$, $\beta = -0.246$, $N = 230$

NEAAFLSMTDSK pc2

rs10887238
 $p = 0.74$, $\beta = -0.0936$, $N = 85$

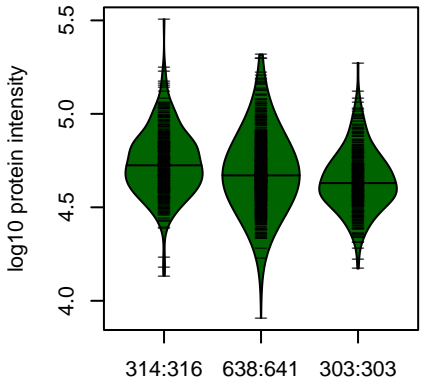
**PFTEAQLLCTQAGGQLASPR pc3
rs3088308 REF**

10:81716268:C:A_A
 $p = 0.00066$, $\text{model} = \text{REC}$, $N = 1170$

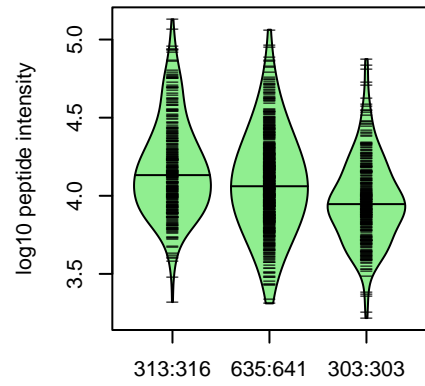
**PFTEAQLLCTQAGGQLATPR pc3
rs3088308 ALT**

10:81716268:C:A_A
 $p = 0.0029$, $\text{model} = \text{REC}$, $N = 132$

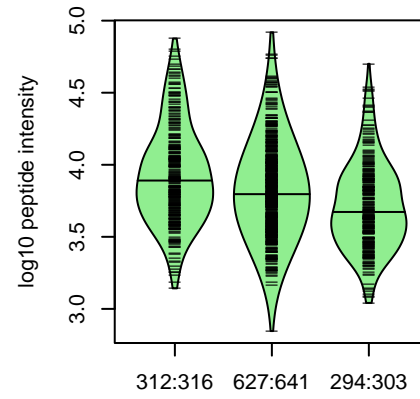
Locus: 207 (Sort: 235)
 Status: Not replicated
 80% power: No
 SNP: 10:81716268:C:A
 rsID: rs10887238
 UniProtID: P35247
 HGNC gene: SFTPD
 Type: Cis-pQTL

NID2 [cis]

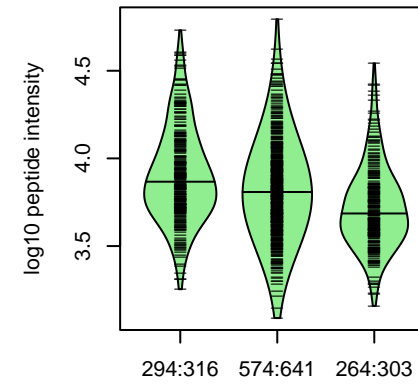
14:52490104:C:T_T
 $p = 7.8e-12$, $\beta = -0.272$, $N = 1255$

VFALYNDEER pc2

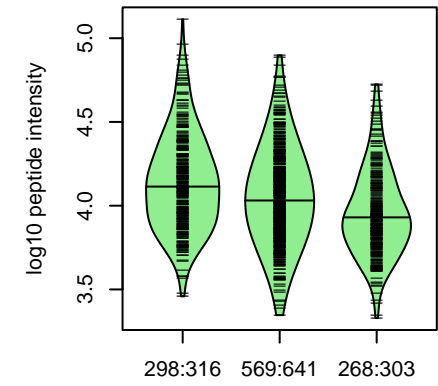
14:52490104:C:T_T
 $p = 1.8e-17$, $\beta = -0.336$, $N = 1251$

FAVTNQGIPVK pc2

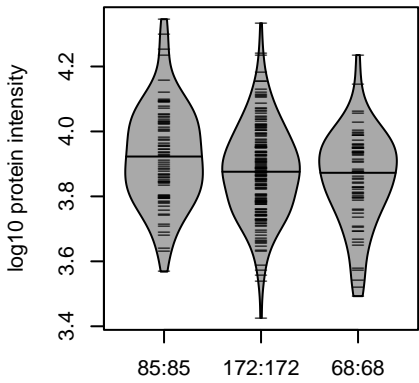
14:52490104:C:T_T
 $p = 8.1e-17$, $\beta = -0.332$, $N = 1233$

IETSSLDGENRR pc3

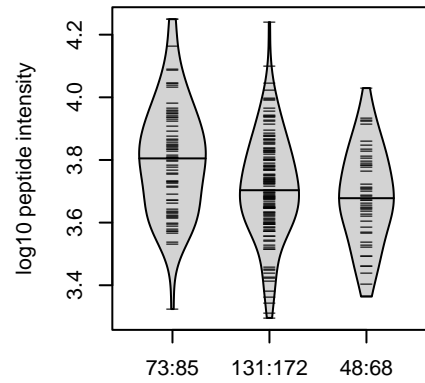
14:52490104:C:T_T
 $p = 6.3e-16$, $\beta = -0.336$, $N = 1132$

LLCWADAGTK pc2

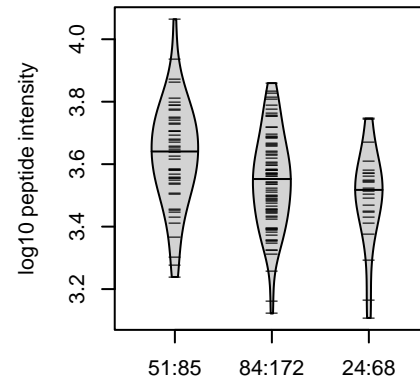
14:52490104:C:T_T
 $p = 8.6e-15$, $\beta = -0.321$, $N = 1135$

Q14112 NP2

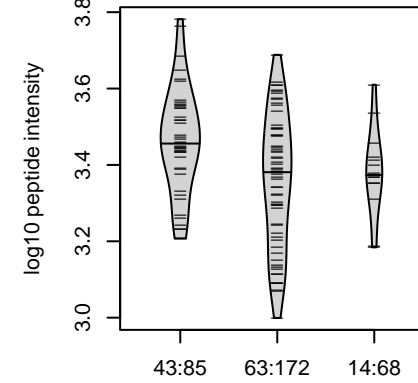
rs10137847
 $p = 0.0084$, $\beta = -0.211$, $N = 325$

VFALYNDEER pc2

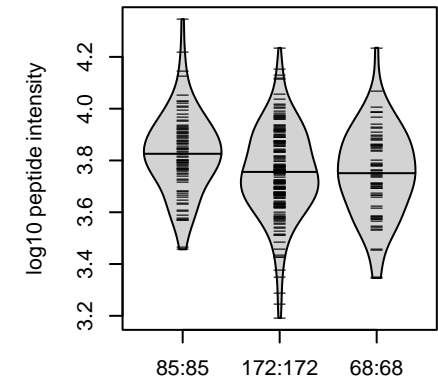
rs10137847
 $p = 0.00046$, $\beta = -0.314$, $N = 252$

SDFCWCVDK pc2

rs10137847
 $p = 0.0017$, $\beta = -0.36$, $N = 159$

NCVDENECATGFHR pc3

rs10137847
 $p = 0.0057$, $\beta = -0.376$, $N = 120$

ESYNVQLQLPAR pc2

rs10137847
 $p = 0.0076$, $\beta = -0.213$, $N = 325$

Locus: 208 (Sort: 236)

Status: Not replicated

80% power: No

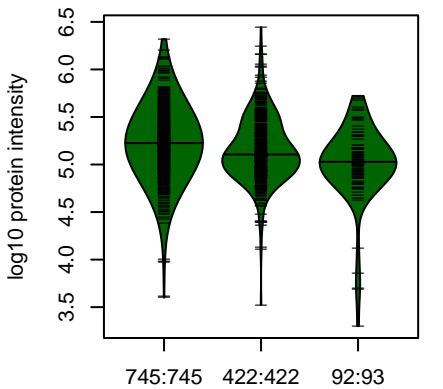
SNP: 14:52490104:C:T

rsID: rs10137847

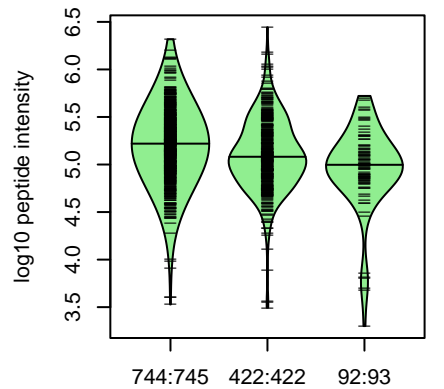
UniProtID: Q14112

HGNC gene: NID2

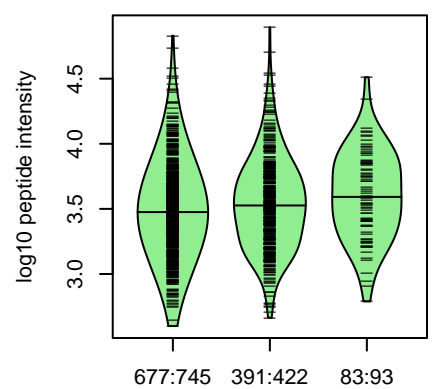
Type: Cis-pQTL

HP [cis]

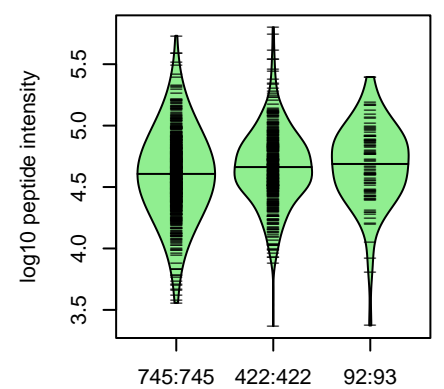
16:71935210:G:A_G
 $p = 8.2e-12$, $\beta = -0.302$, $N = 1259$

VTSIQDWVQK pc2

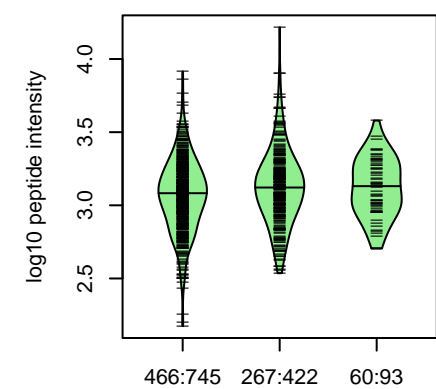
16:71935210:G:A_G
 $p = 1.3e-12$, $\beta = -0.313$, $N = 1258$

LPECEAVCGKPK pc2

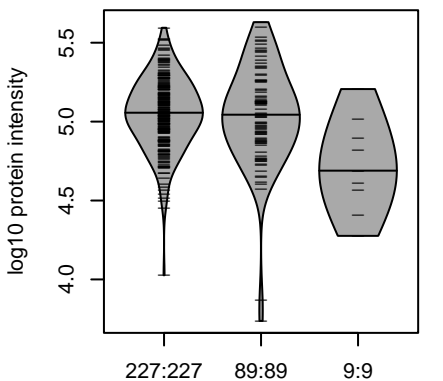
16:71935210:G:A_G
 $p = 0.0049$, $\beta = 0.131$, $N = 1151$

AVGDKLPECEAVCGK pc3

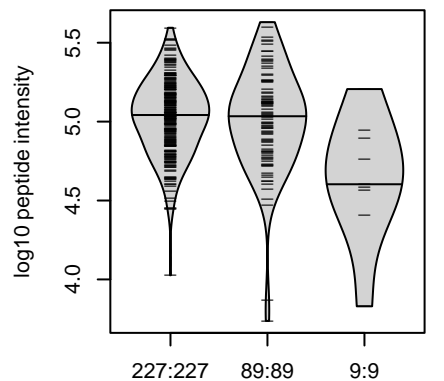
16:71935210:G:A_G
 $p = 0.0056$, $\beta = 0.123$, $N = 1259$

LRTEGDGVYTLNNEK pc2

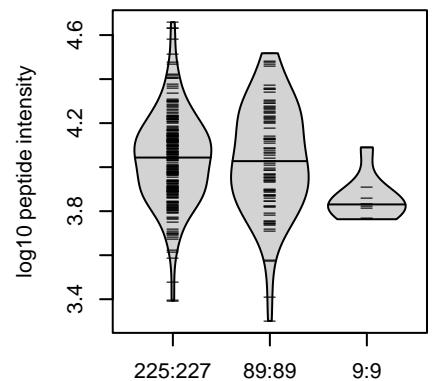
16:71935210:G:A_G
 $p = 0.0061$, $\beta = 0.152$, $N = 793$

P00738 NP4

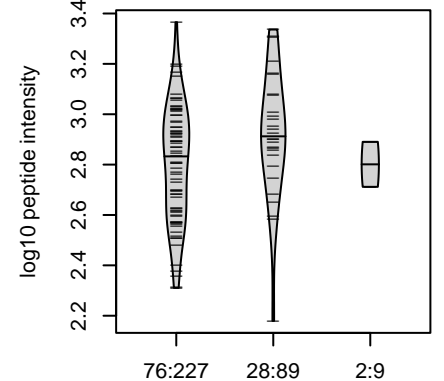
rs12449139
 $p = 0.0077$, $\beta = -0.28$, $N = 325$

VTSIQDWVQK pc3

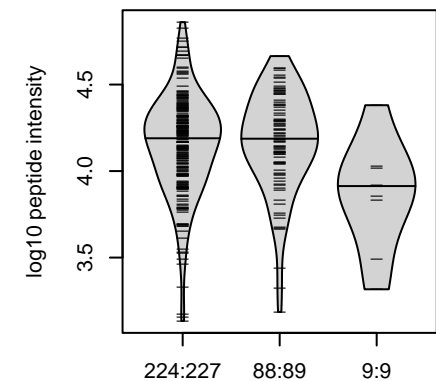
rs12449139
 $p = 0.0064$, $\beta = -0.283$, $N = 325$

LPECEAVCGKPK pc3

rs12449139
 $p = 0.03$, $\beta = -0.226$, $N = 323$

VVLHPNYSQVDIGLIK pc2

rs12449139
 $p = 0.033$, $\beta = 0.4$, $N = 106$

AVGDKLPECEAVCGK pc3

rs12449139
 $p = 0.054$, $\beta = -0.202$, $N = 321$

Locus: 209 (Sort: 237)

Status: Not replicated

80% power: No

SNP: 16:71935210:G:A

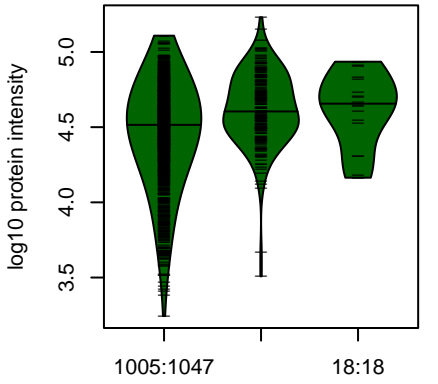
rsID: rs12449139

UniProtID: P00738

HGNC gene: HP

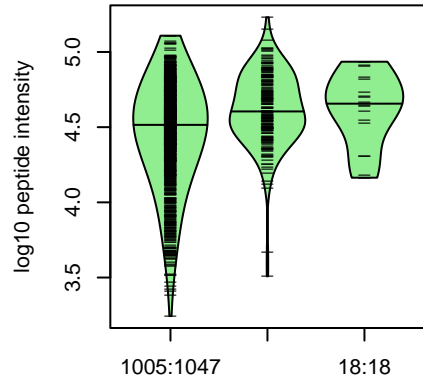
Type: Cis-pQTL

HLA-G [cis]



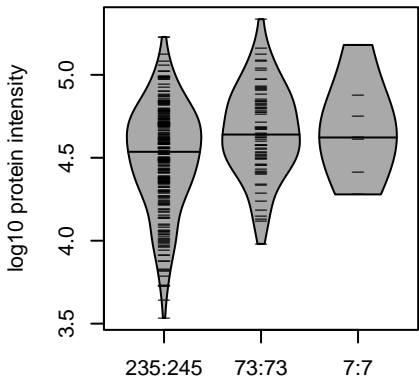
6:29811876:A:G_G
 $p = 8.9e-12$, $\beta = 0.454$, $N = 1213$

DYLALNEDLR pc2



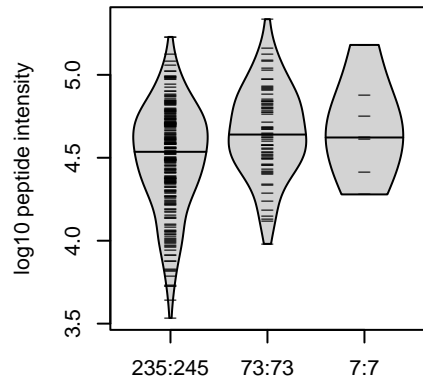
6:29811876:A:G_G
 $p = 8.9e-12$, $\beta = 0.454$, $N = 1213$

Q5RJ85 NP1



rs9258550
 $p = 0.0039$, $\beta = 0.326$, $N = 315$

DYLALNEDLR pc2



rs9258550
 $p = 0.0043$, $\beta = 0.32$, $N = 315$

Locus: 210 (Sort: 238)

Status: Not replicated

80% power: No

SNP: 6:29811876:A:G

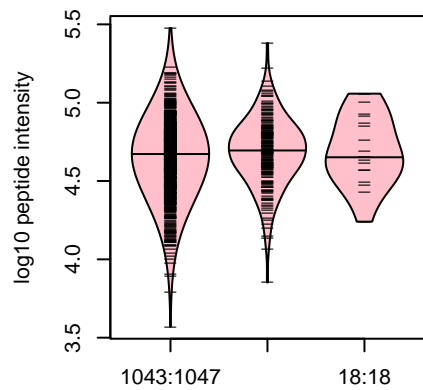
rsID: rs9258550

UniProtID: Q5RJ85

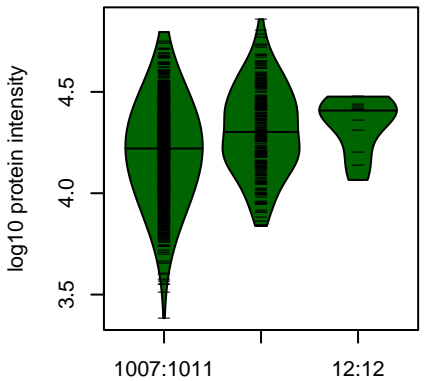
HGNC gene: HLA-G

Type: Cis-pQTL

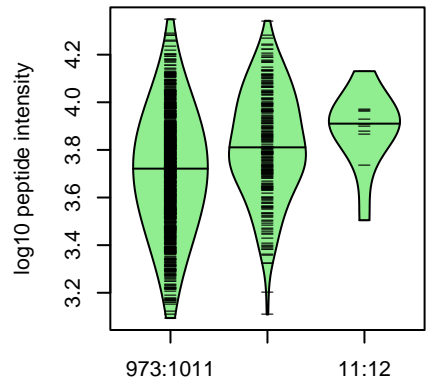
WAAVVPSGEEQR pc2 rs707908;rs1736924 ALT



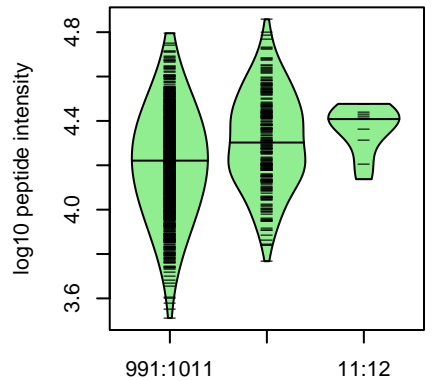
6:29811876:A:G_G
 $p = 1$, model = DOM, $N = 1255$

HEG1 [cis]

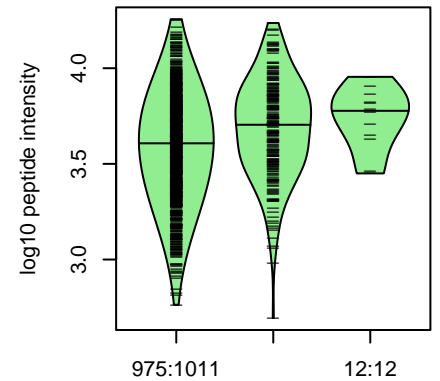
3:124768220:G:A_A
 $p = 9.2e-12$, $\beta = 0.444$, $N = 1254$

SGTASEMGTER pc2

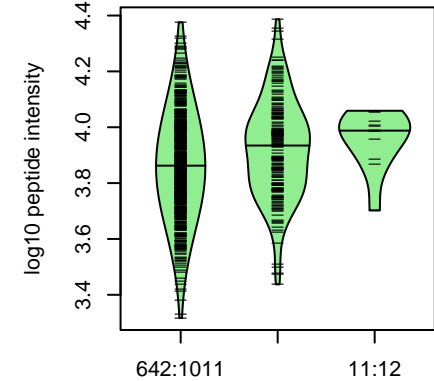
3:124768220:G:A_A
 $p = 6.1e-12$, $\beta = 0.452$, $N = 1219$

EGVMVQTS GK pc2

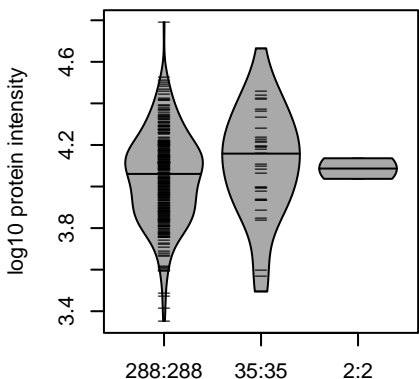
3:124768220:G:A_A
 $p = 1.4e-11$, $\beta = 0.444$, $N = 1237$

ALSLAPLAGAGLELQLER pc2

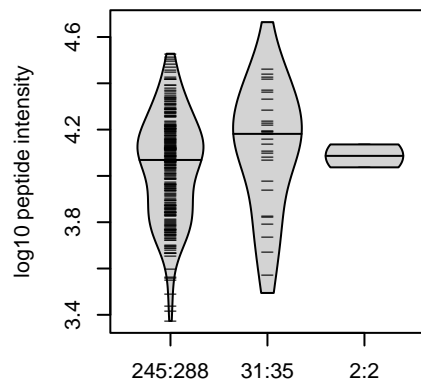
3:124768220:G:A_A
 $p = 6.2e-08$, $\beta = 0.357$, $N = 1218$

GGSDAAWK pc2

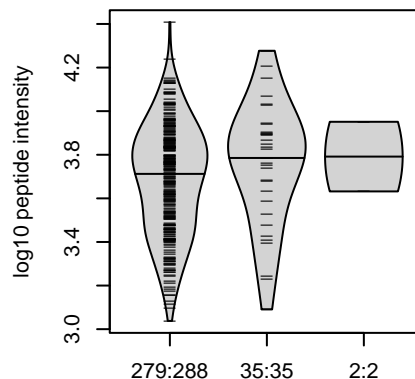
3:124768220:G:A_A
 $p = 4.8e-06$, $\beta = 0.333$, $N = 850$

Q9ULI3 NP2

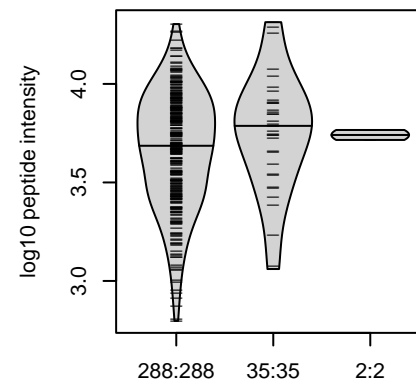
rs9835358
 $p = 0.065$, $\beta = 0.295$, $N = 325$

EGVMVQTS GK pc2

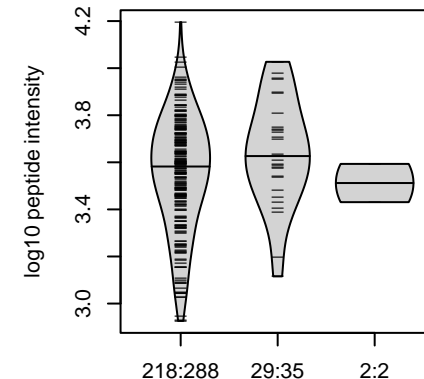
rs9835358
 $p = 0.058$, $\beta = 0.317$, $N = 278$

SGTASEMGTER pc2

rs9835358
 $p = 0.06$, $\beta = 0.3$, $N = 316$

ALSLAPLAGAGLELQLER pc2

rs9835358
 $p = 0.097$, $\beta = 0.265$, $N = 325$

SLTVSLGPVSK pc2

rs9835358
 $p = 0.12$, $\beta = 0.268$, $N = 249$

Locus: 211 (Sort: 239)

Status: Not replicated

80% power: No

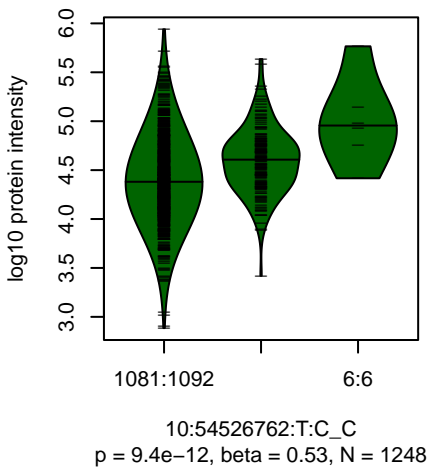
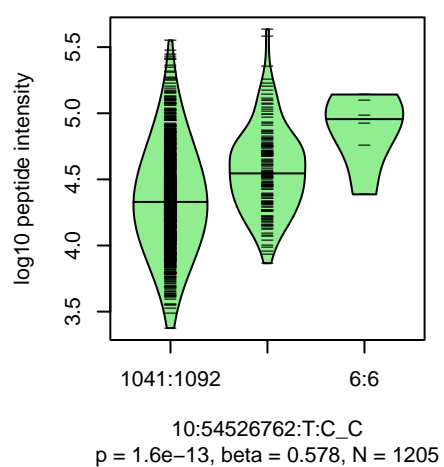
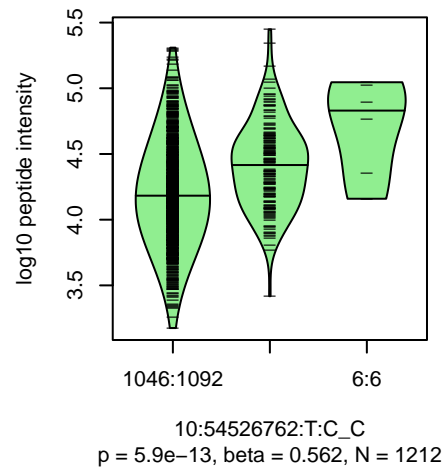
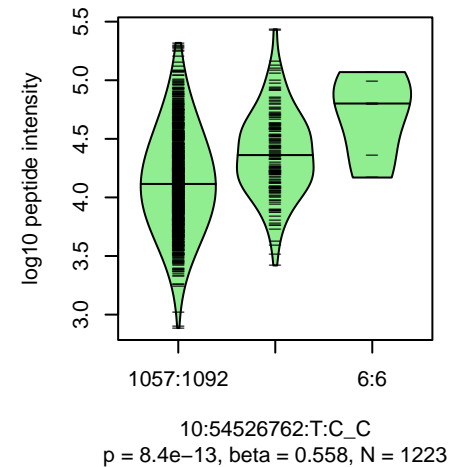
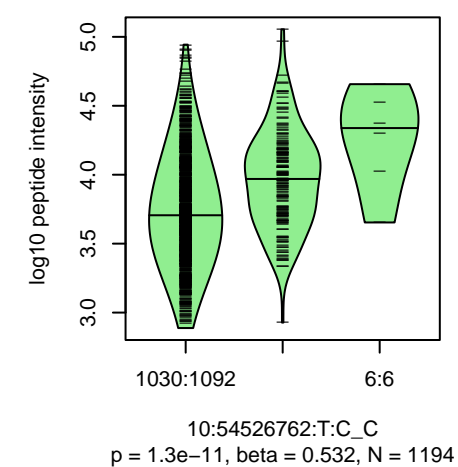
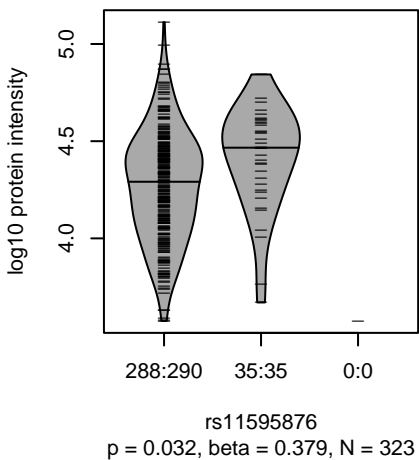
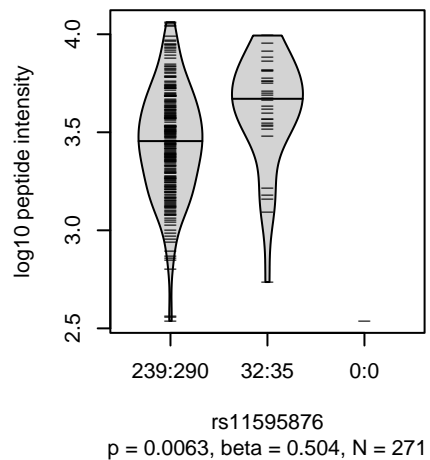
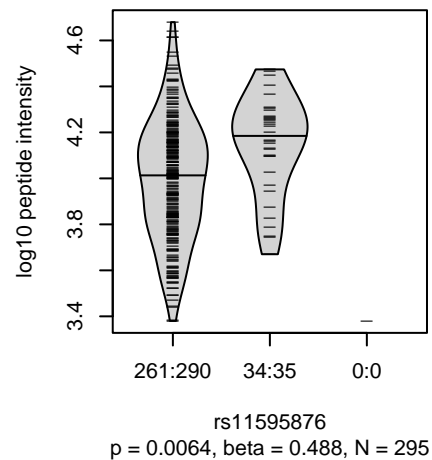
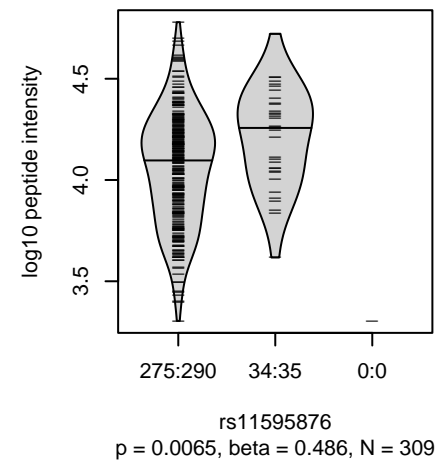
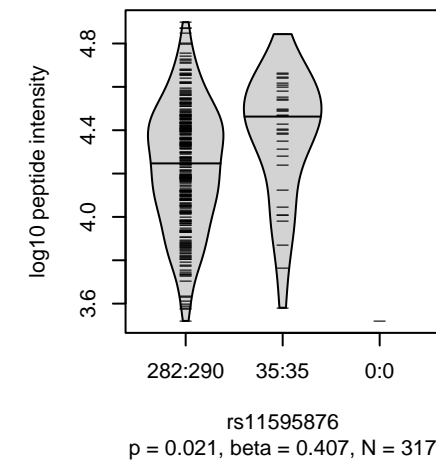
SNP: 3:124768220:G:A

rsID: rs9835358

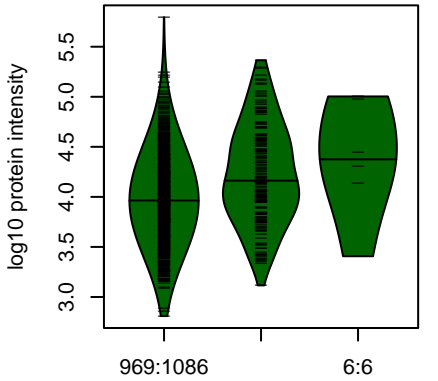
UniProtID: Q9ULI3

HGNC gene: HEG1

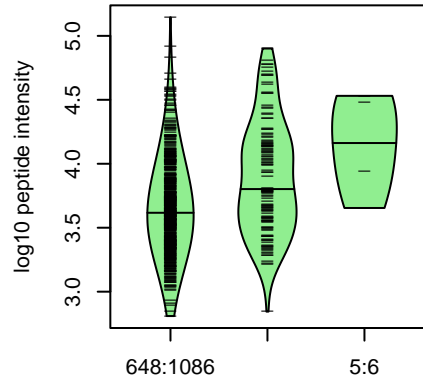
Type: Cis-pQTL

MBL2 [cis]**EEAFLGITDEK pc2****TEGQFVDLTGNR pc2****WLTFSLGK pc2****FFLTNGEIMTFEK pc2****P11226 NP2****NAAENGAIQNLIK pc2****TEGQFVDLTGNR pc2****WLTFSLGK pc2****EEAFLGITDEK pc2**

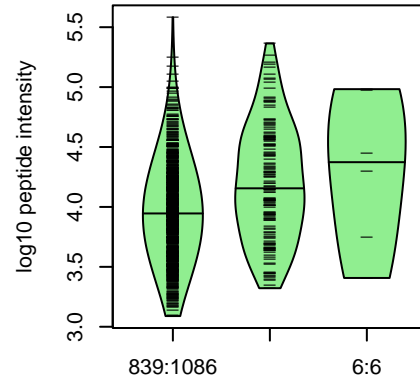
Locus: 212 (Sort: 240)
 Status: Not replicated
 80% power: No
 SNP: 10:54526762:T:C
 rsID: rs11595876
 UniProtID: P11226
 HGNC gene: MBL2
 Type: Cis-pQTL

SRCRB4D [cis]

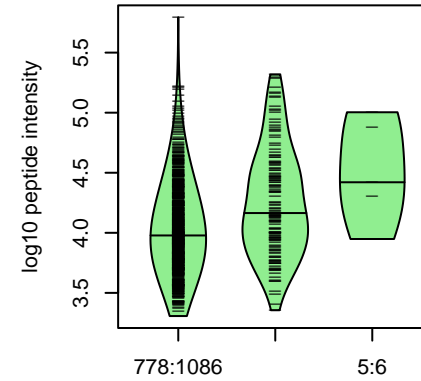
7:76044757:G:T_T
 $p = 9.8e-12$, $\beta = 0.528$, $N = 1140$

EAGCGPALGATGLGHFGYGR pc3

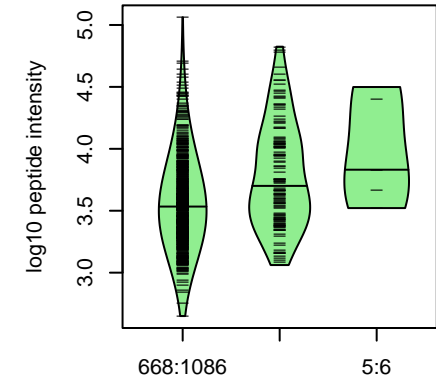
7:76044757:G:T_T
 $p = 8.8e-11$, $\beta = 0.575$, $N = 779$

GPILLDNVK pc2

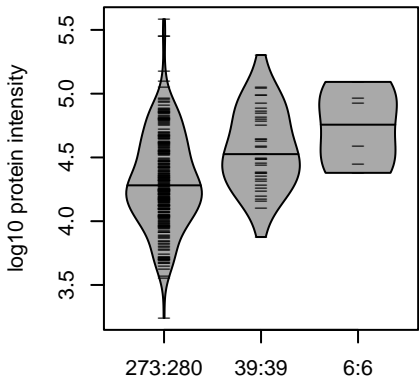
7:76044757:G:T_T
 $p = 1.5e-10$, $\beta = 0.519$, $N = 995$

LVGGPGPCR pc2

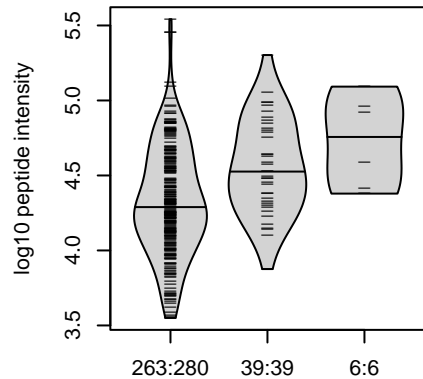
7:76044757:G:T_T
 $p = 8.4e-10$, $\beta = 0.516$, $N = 925$

QLGCGQALAAPGEAHFGPGR pc2

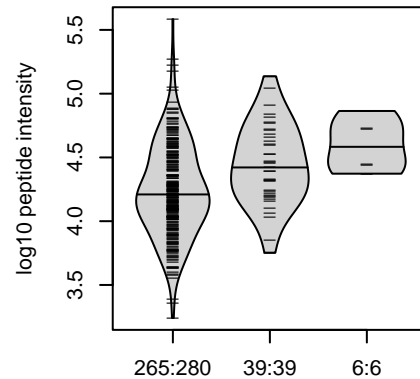
7:76044757:G:T_T
 $p = 1.7e-09$, $\beta = 0.526$, $N = 805$

Q8WTU2 NP2

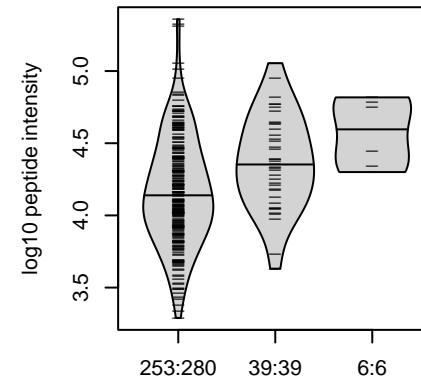
rs111666614
 $p = 3.4e-08$, $\beta = 0.725$, $N = 318$

GPILLDNVK pc2

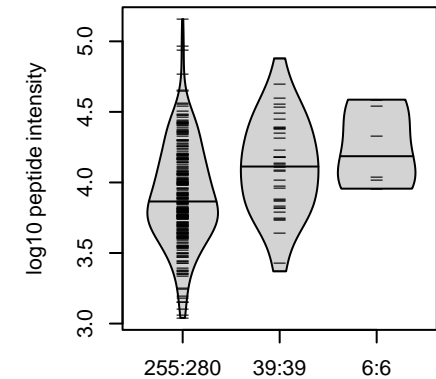
rs111666614
 $p = 5.7e-08$, $\beta = 0.709$, $N = 308$

LVGGANLCQGR pc2

rs111666614
 $p = 5.3e-07$, $\beta = 0.657$, $N = 310$

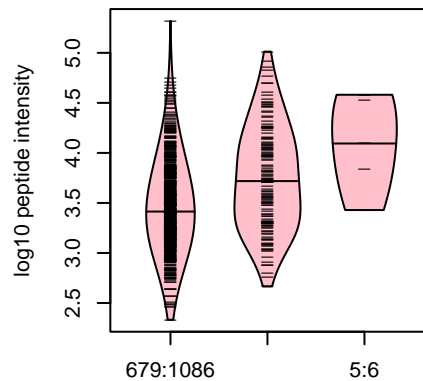
VELYLGQR pc2

rs111666614
 $p = 1.8e-06$, $\beta = 0.628$, $N = 298$

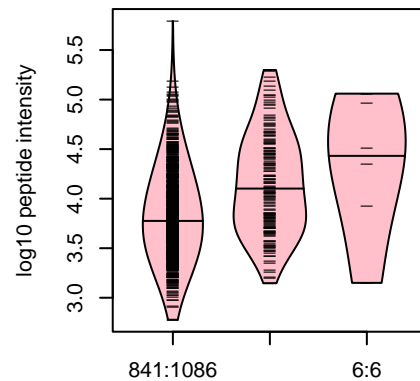
QLGCGQALAAPGEAHFGPGR pc2

rs111666614
 $p = 4.9e-06$, $\beta = 0.602$, $N = 300$

Locus: 213 (Sort: 241)
 Status: Replicated
 80% power: No
 SNP: 7:76044757:G:T
 rsID: rs111666614
 UniProtID: Q8WTU2
 HGNC gene: SRCRB4D
 Type: Cis-pQTL

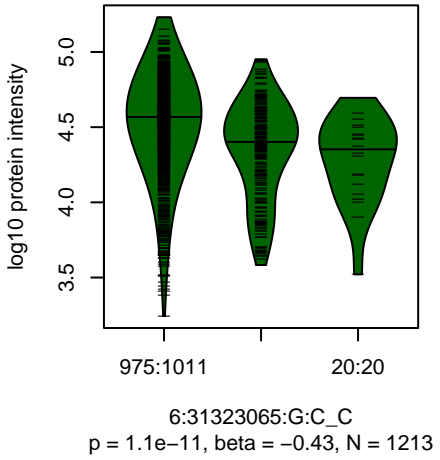
**QGEAALSECGSR pc2
rs4728712 REF**

7:76044757:G:T_T
 $p = 1.1e-09$, model = REC, $N = 827$

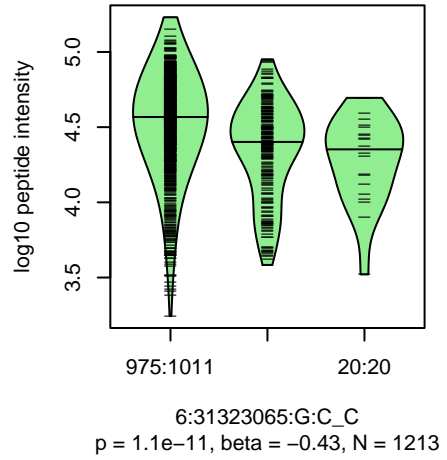
**GPILLDNVECR pc2
rs4728712 REF**

7:76044757:G:T_T
 $p = 7.8e-08$, model = REC, $N = 1004$

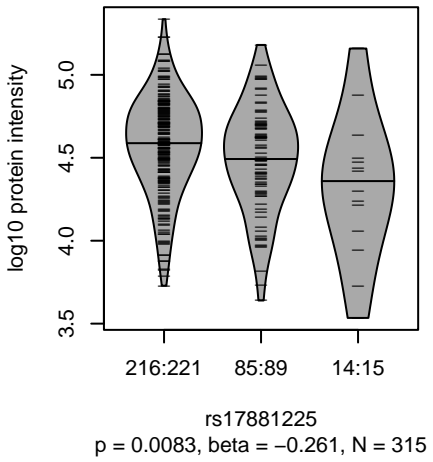
HLA-G [cis]



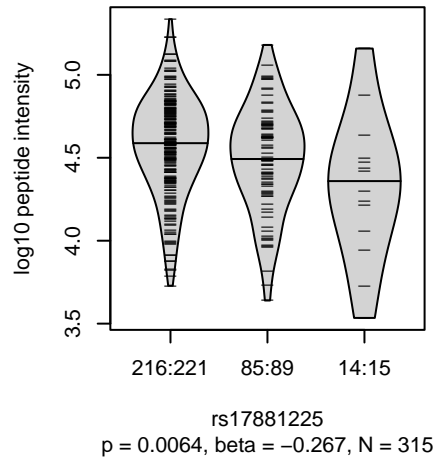
DYLALNEDLR pc2



Q5RJ85 NP1

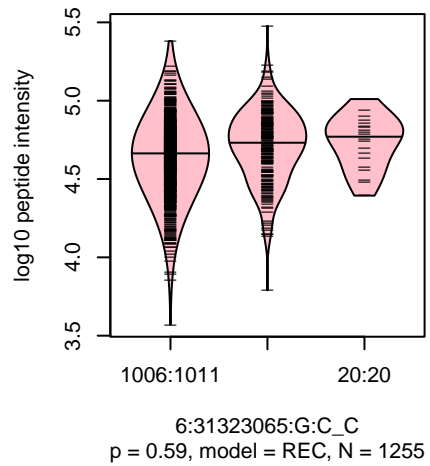


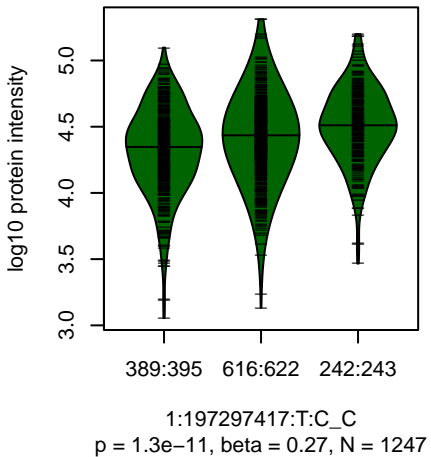
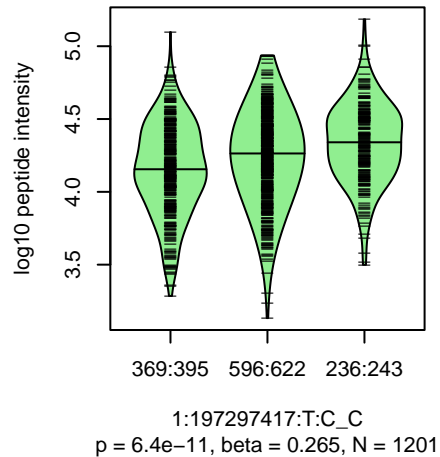
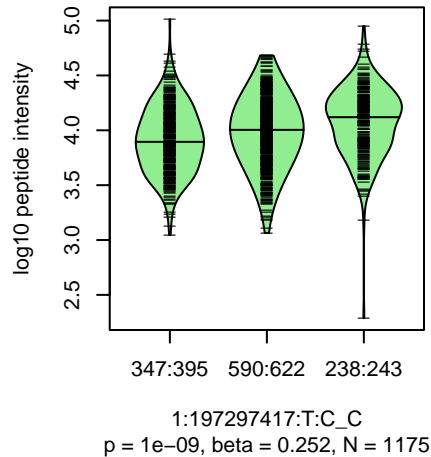
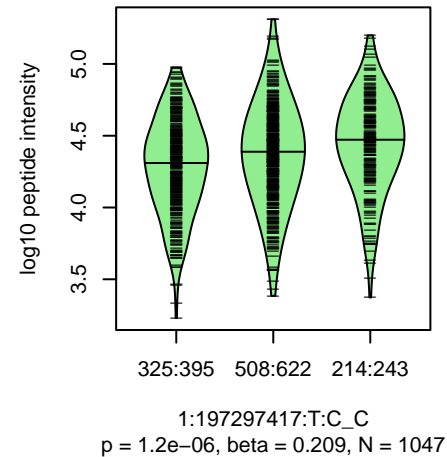
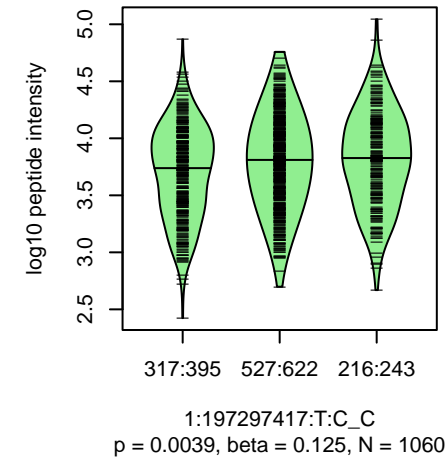
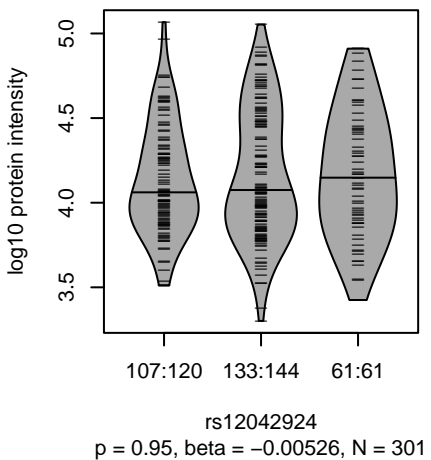
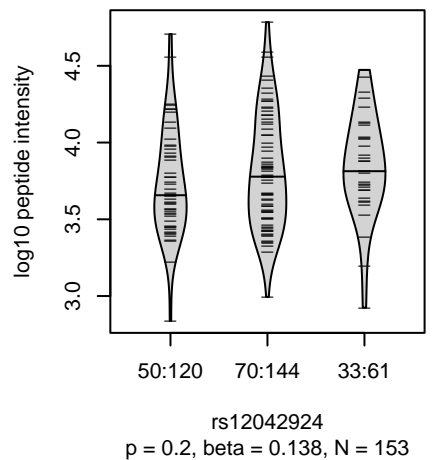
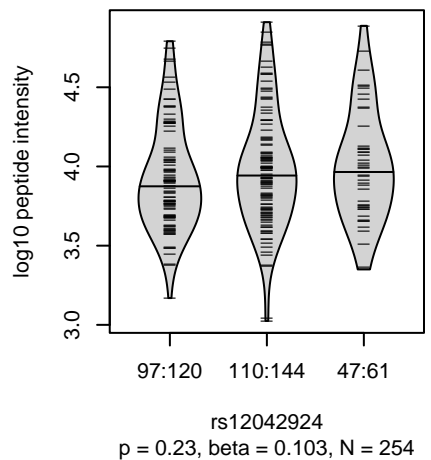
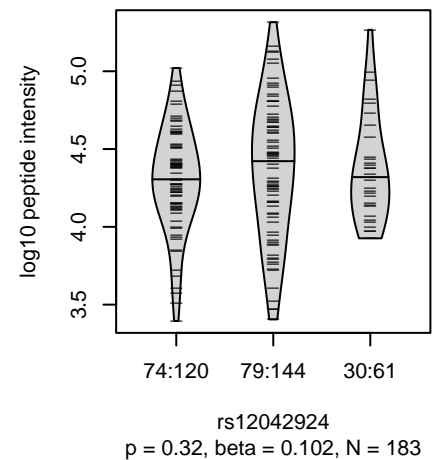
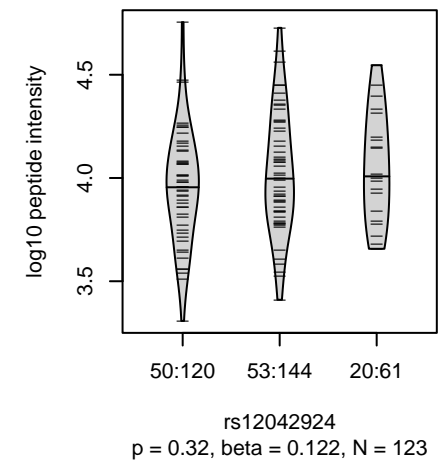
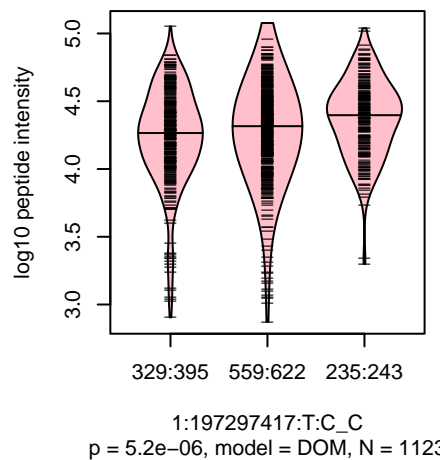
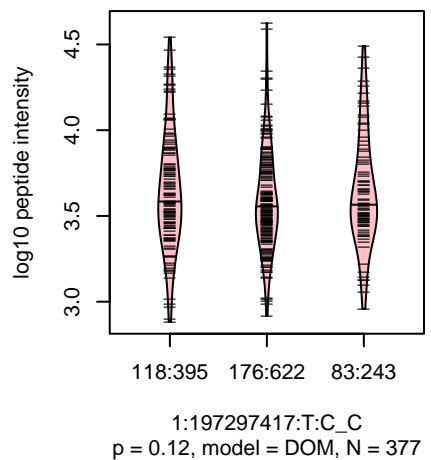
DYLALNEDLR pc2



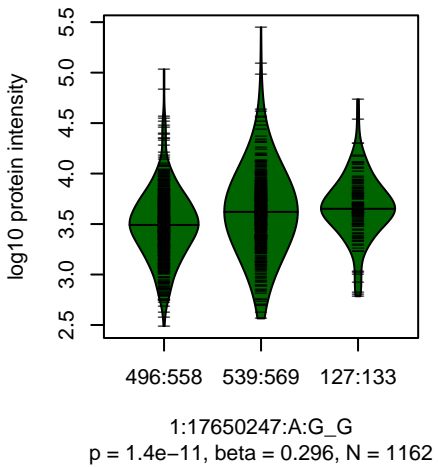
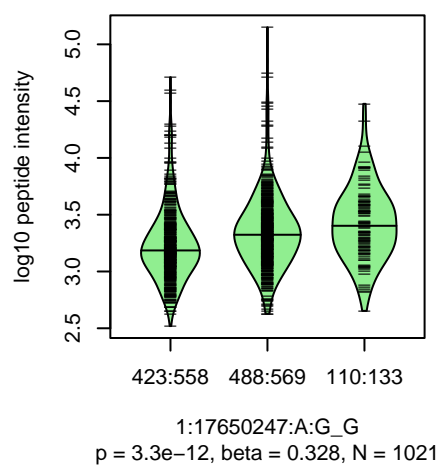
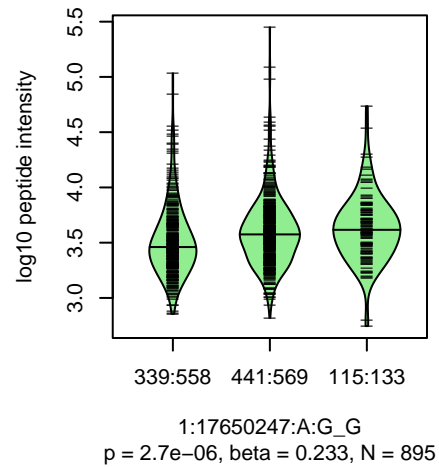
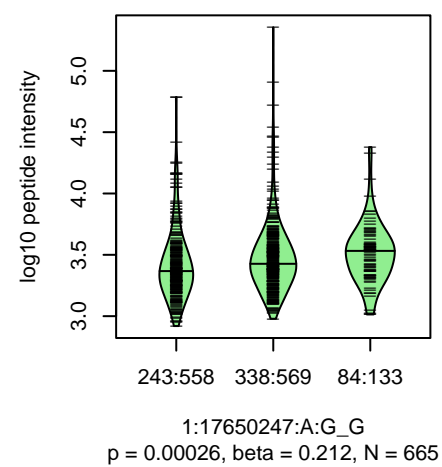
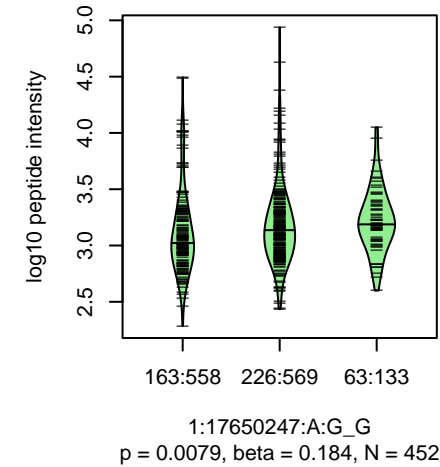
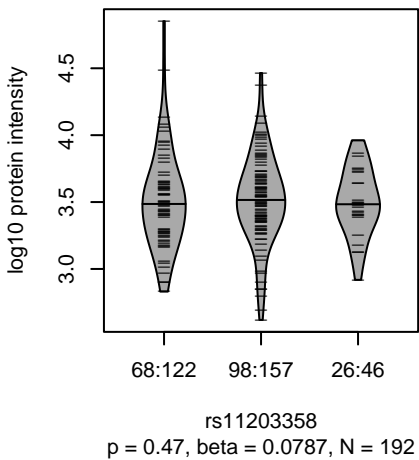
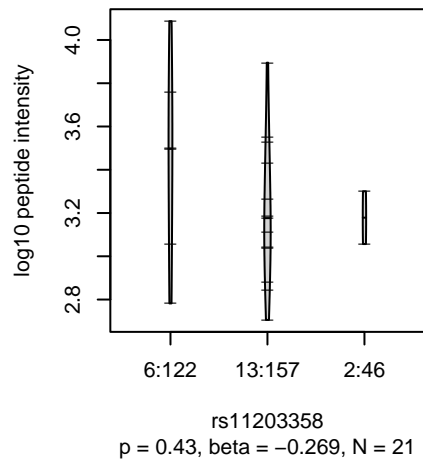
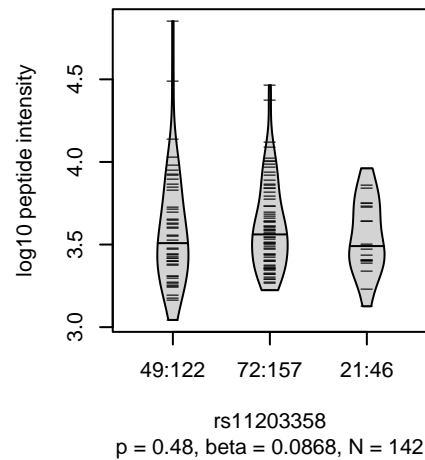
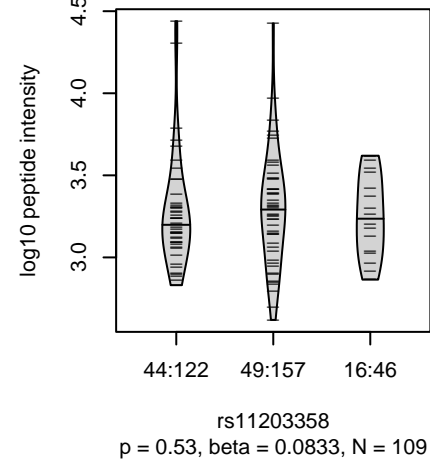
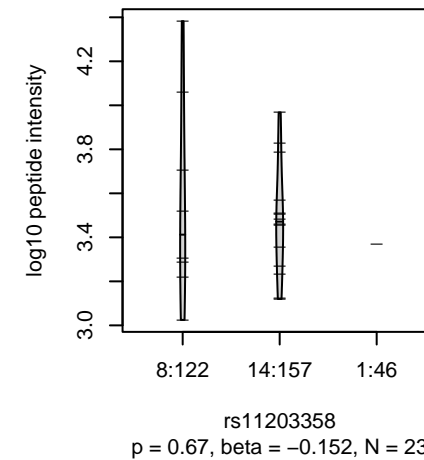
Locus: 214 (Sort: 242)
Status: Not replicated
80% power: No
SNP: 6:31323065:G:C
rsID: rs17881225
UniProtID: Q5RJ85
HGNC gene: HLA-G
Type: Cis-pQTL

WAAVVPSGEEQR pc2 rs707908;rs1736924 ALT



CFHR3 [cis]**TGDTIEFMCK pc2****AQTTVTCTEK pc2****VYVPQSR pc2****CIHPCIITEENMNK pc3****Q02985 NP5****PCDFPDIK pc2****EGIVEYPRCE pc2****VYVPQSR pc2****GWSPTPR pc2****CYFPYLENGYNQNYGR pc3
rs1061170 ALT****CYFPYLENGYNQNYGRK pc3
rs1061170 ALT**

Locus: 215 (Sort: 243)
Status: Not replicated
80% power: No
SNP: 1:197297417:T:C
rsID: rs12042924
UniProtID: Q02985
HGNC gene: CFHR3
Type: Cis-pQTL

PADI4 [cis]**AEAFFPNMVMNMLVLGK pc2****TLPVVFDSR pc2****PFGPVIINGR pc2****CSVVLGPK pc2****Q9UM07 NP1****QMHQALQDFLSAQVQAPVK pc2****TLPVVFDSR pc2****AEAFFPNMVMNMLVLGK pc2****VMGPDFGYVTR pc2**

Locus: 216 (Sort: 244)

Status: Not replicated

80% power: No

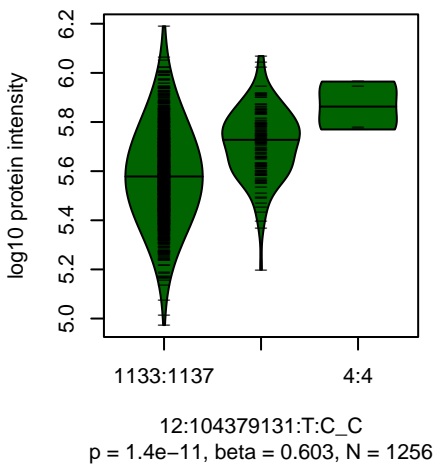
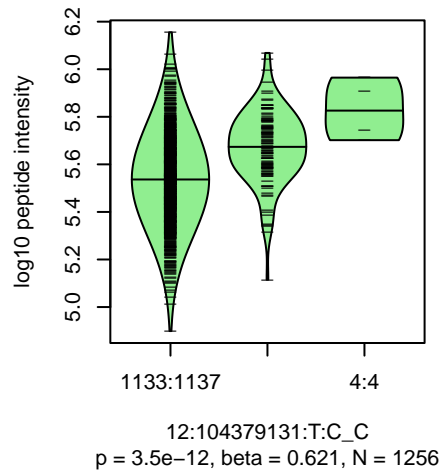
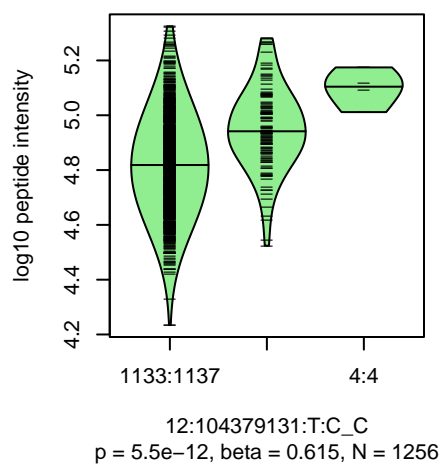
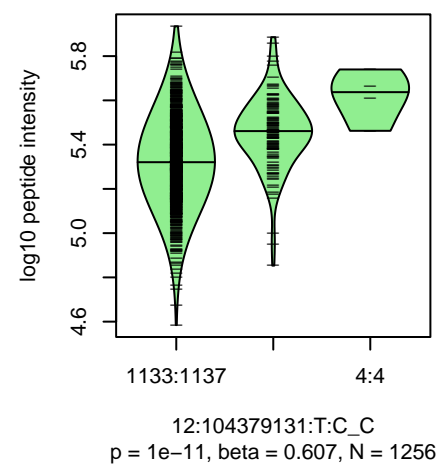
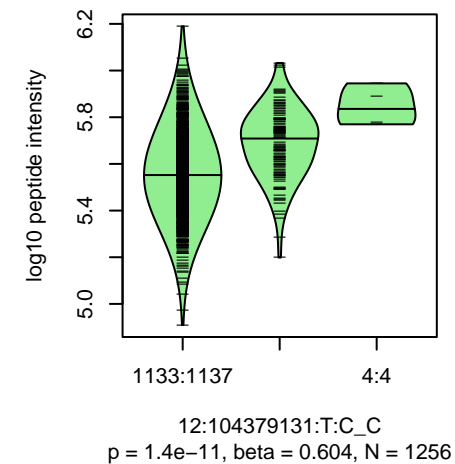
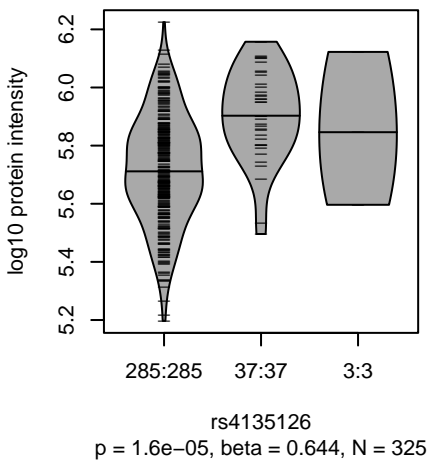
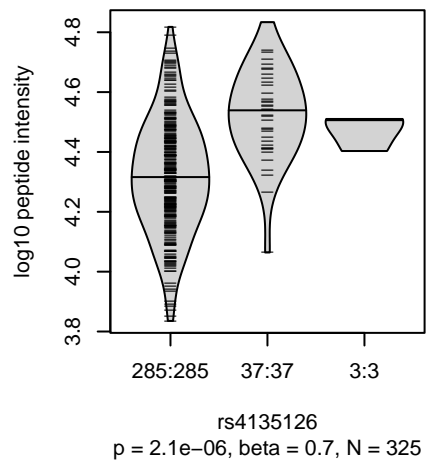
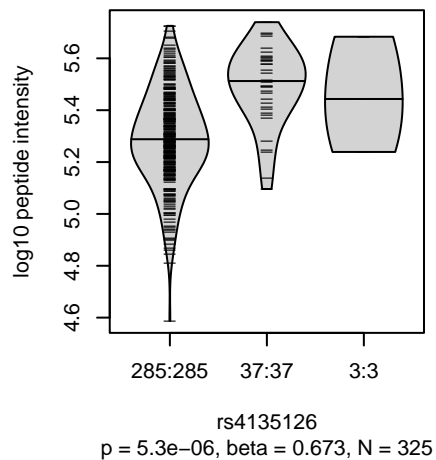
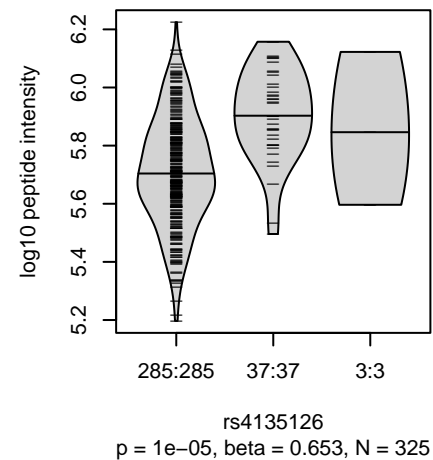
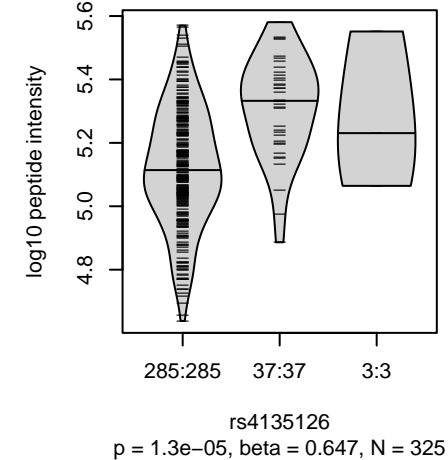
SNP: 1:17650247:A:G

rsID: rs11203358

UniProtID: Q9UM07

HGNC gene: PADI4

Type: Cis-pQTL

HSP90B1 [cis]**LIINSLYK pc2****DISTNYYASQK pc2****GLFDEYGSK pc2****SILFVPTSAPR pc2****P14625 NP2****AQAYQTGK pc2****EFEPLLNWMK pc2****SILFVPTSAPR pc2****YNDTFWK pc2**

Locus: 217 (Sort: 245)

Status: Replicated

80% power: No

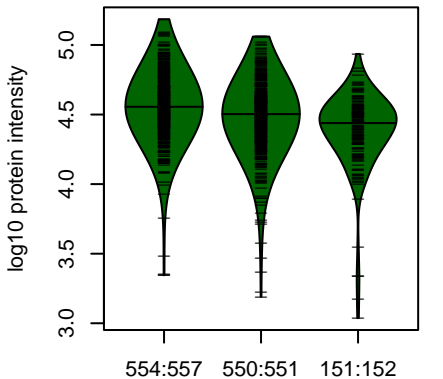
SNP: 12:104379131:T:C

rsID: rs4135126

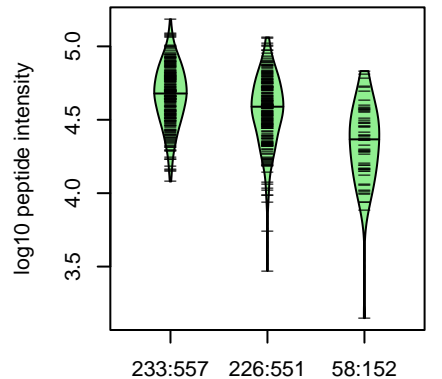
UniProtID: P14625

HGNC gene: HSP90B1

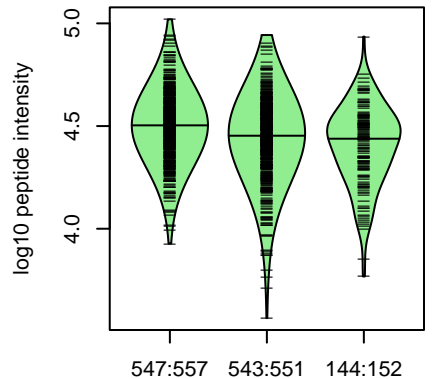
Type: Cis-pQTL

HLA-B [cis]

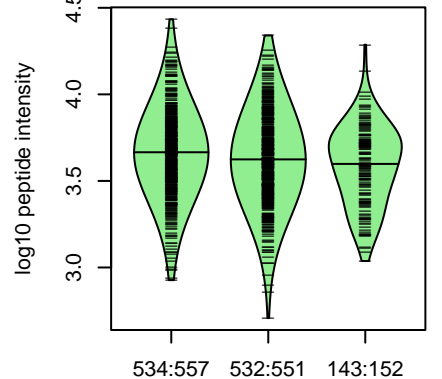
6:29896659:C:T_T
p = 1.6e-11, beta = -0.277, N = 1255

DYIALNEDLR pc2

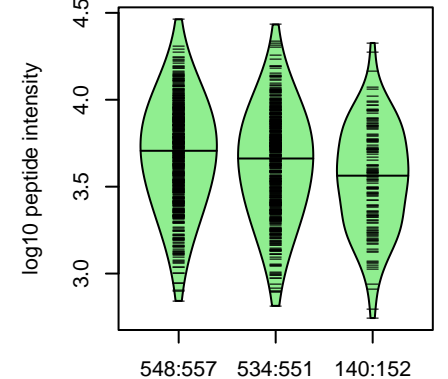
6:29896659:C:T_T
p = 2.2e-12, beta = -0.447, N = 517

FSDAASPR pc2

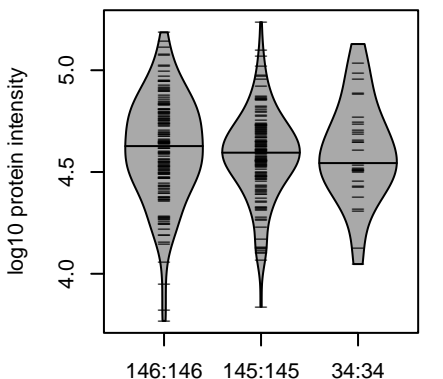
6:29896659:C:T_T
p = 1.1e-07, beta = -0.223, N = 1234

DGEDQTQDTELVETRPAGDR pc3

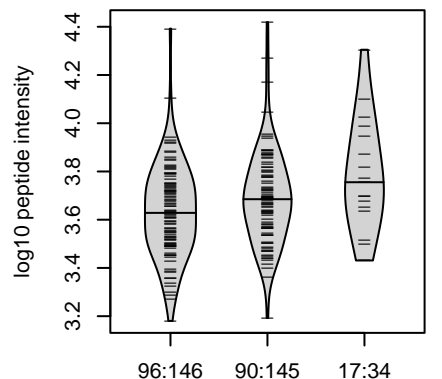
6:29896659:C:T_T
p = 0.00091, beta = -0.14, N = 1209

SWTAADTAAQITQR pc2

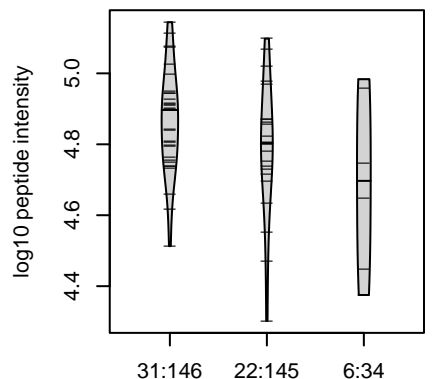
6:29896659:C:T_T
p = 0.0037, beta = -0.123, N = 1222

P01889 NP2

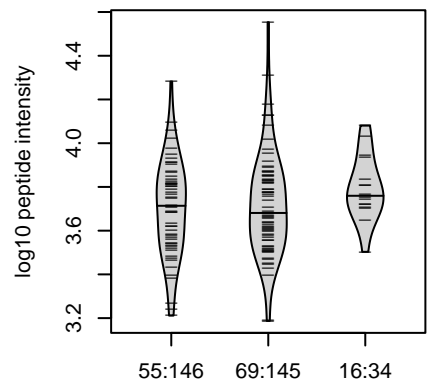
rs2517755
p = 0.56, beta = -0.0489, N = 325

YTCHVQHEGLPK pc3

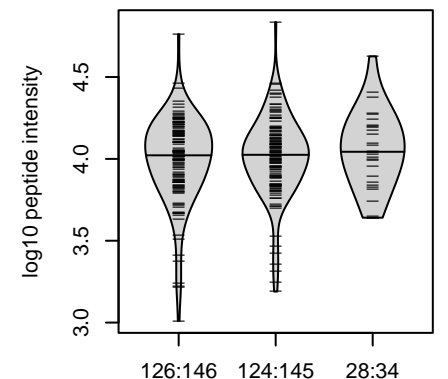
rs2517755
p = 0.0023, beta = 0.327, N = 203

DYIALNEDLR pc2

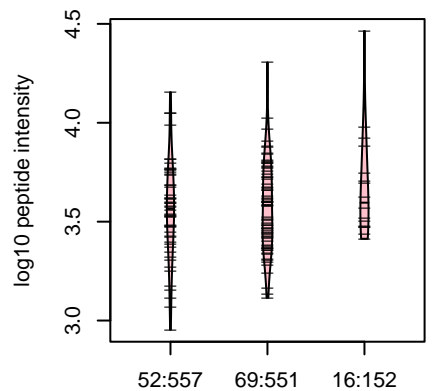
rs2517755
p = 0.079, beta = -0.325, N = 59

APWIEQEGPEYWDR pc2

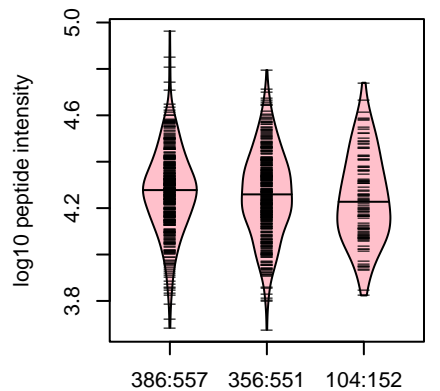
rs2517755
p = 0.15, beta = 0.18, N = 140

DGEDQTQDTELVETRPAGDR pc3

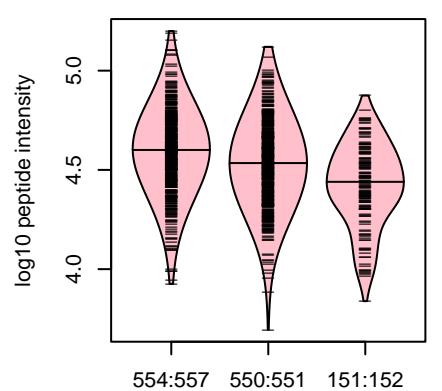
rs2517755
p = 0.27, beta = 0.0999, N = 278

**GEPRFISGVYDDTQFVR pc3
rs1050437 REF**

6:29896659:C:T_T
p = 0.12, model = REC, N = 137

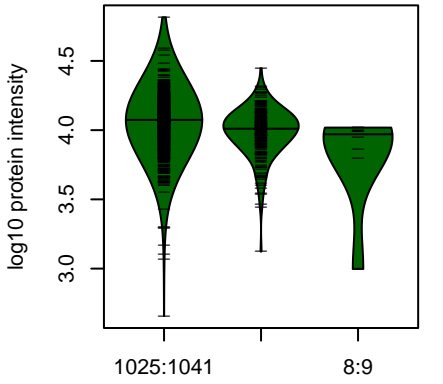
**FISVGYVDDTQFVR pc2
rs1050437 REF**

6:29896659:C:T_T
p = 0.15, model = REC, N = 846

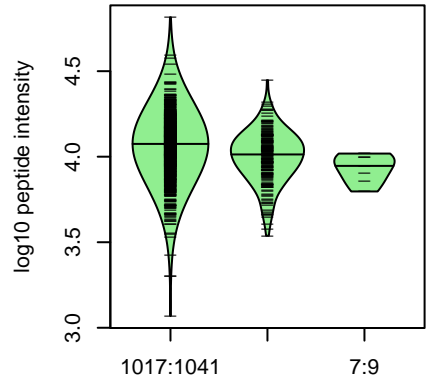
**WAAVVVPSGEEQR pc2
rs707908;rs1736924 ALT**

6:29896659:C:T_T
p = 0.47, model = DOM, N = 1255

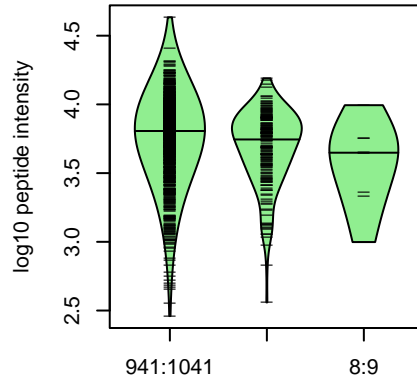
Locus: 218 (Sort: 246)
Status: Not replicated
80% power: No
SNP: 6:29896659:C:T
rsID: rs2517755
UniProtID: P01889
HGNC gene: HLA-B
Type: Cis-pQTL

FXVD2 [cis]

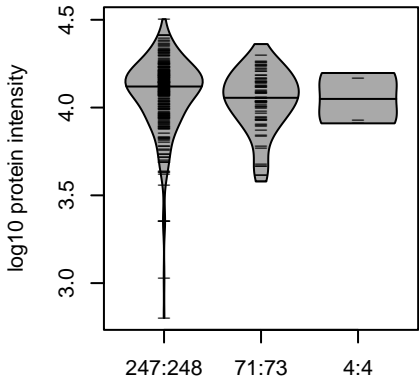
11:117698483:A:G_G
 $p = 1.7e-11$, $\beta = -0.474$, $N = 1237$

TGLSMDGGGSPK pc2

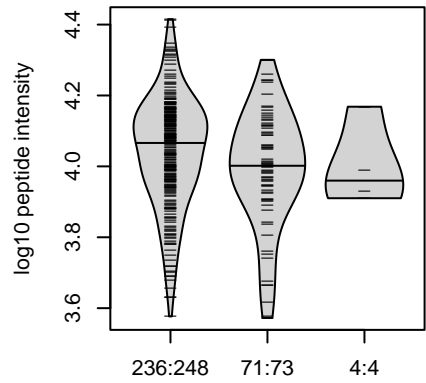
11:117698483:A:G_G
 $p = 1.3e-09$, $\beta = -0.436$, $N = 1222$

GDVDPFYDYETVR pc2

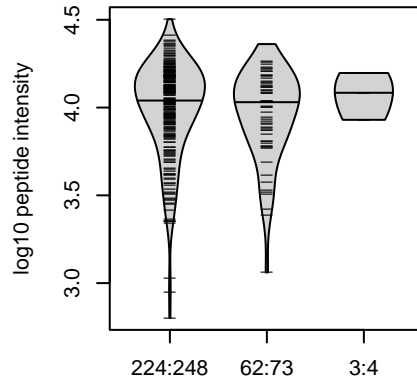
11:117698483:A:G_G
 $p = 3.4e-05$, $\beta = -0.303$, $N = 1138$

P54710 NP2

rs11216567
 $p = 0.14$, $\beta = -0.178$, $N = 322$

TGLSMDGGGSPK pc2

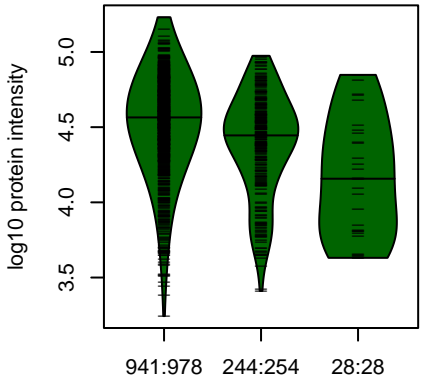
rs11216567
 $p = 0.059$, $\beta = -0.228$, $N = 311$

GDVDPFYDYETVR pc2

rs11216567
 $p = 0.45$, $\beta = -0.0973$, $N = 289$

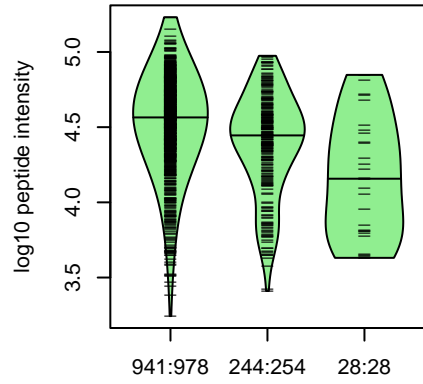
Locus: 219 (Sort: 247)
 Status: Not replicated
 80% power: No
 SNP: 11:117698483:A:G
 rsID: rs11216567
 UniProtID: P54710
 HGNC gene: FXVD2
 Type: Cis-pQTL

HLA-G [cis]



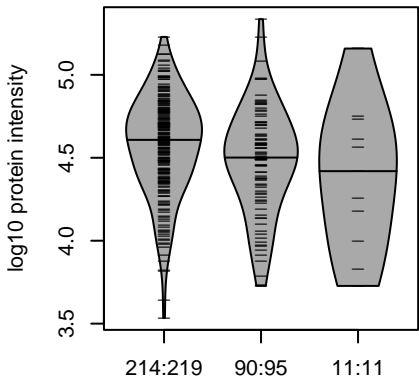
6:29924440:T:C_C
p = 1.8e-11, beta = -0.395, N = 1213

DYLALNEDLR pc2



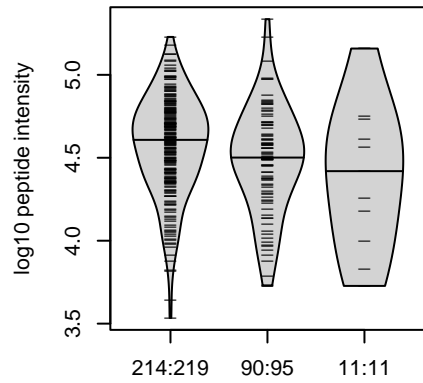
6:29924440:T:C_C
p = 1.8e-11, beta = -0.395, N = 1213

Q5RJ85 NP1



rs17179851
p = 0.0089, beta = -0.267, N = 315

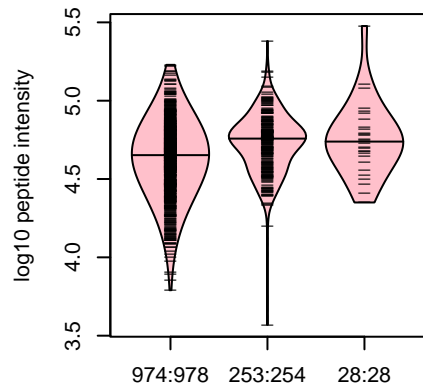
DYLALNEDLR pc2



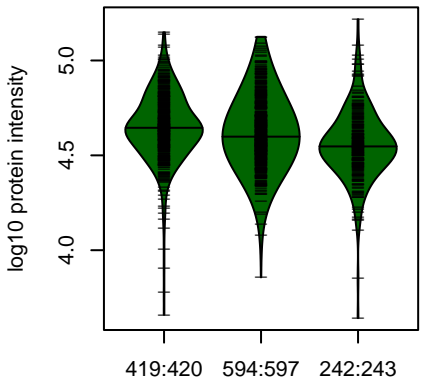
rs17179851
p = 0.0066, beta = -0.275, N = 315

Locus: 220 (Sort: 248)
Status: Not replicated
80% power: No
SNP: 6:29924440:T:C
rsID: rs17179851
UniProtID: Q5RJ85
HGNC gene: HLA-G
Type: Cis-pQTL

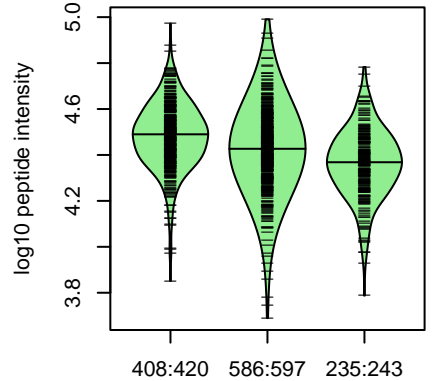
WAAVVPSGEEQR pc2 rs707908;rs1736924 ALT



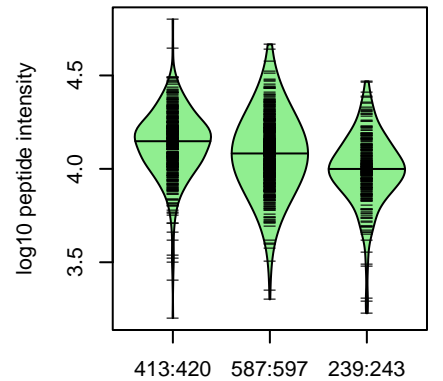
6:29924440:T:C_C
p = 1, model = DOM, N = 1255

LAMC1 [trans]

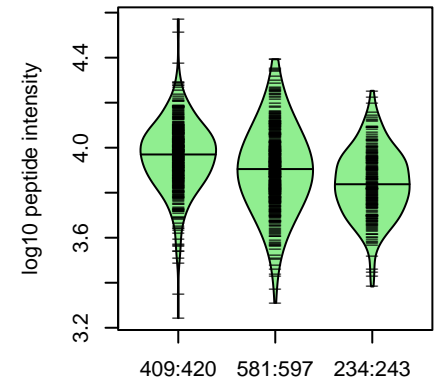
1:236211491:C:T_T
 $p = 1.8e-11$, $\beta = -0.263$, $N = 1255$

TAAEEALR pc2

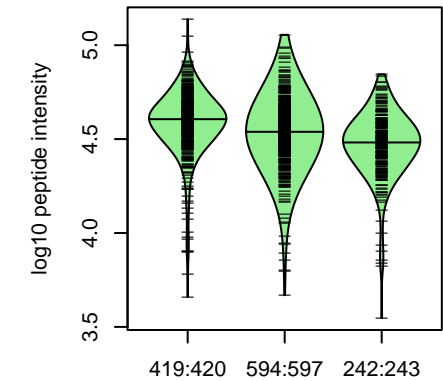
1:236211491:C:T_T
 $p = 2.5e-23$, $\beta = -0.391$, $N = 1229$

TEQQTADQLLAR pc2

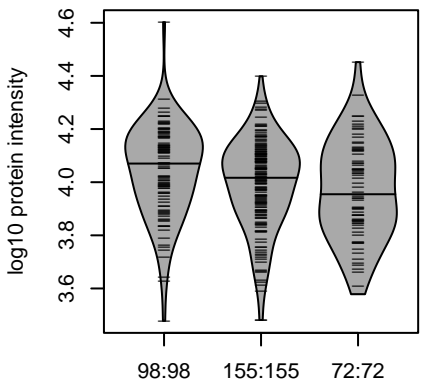
1:236211491:C:T_T
 $p = 6.8e-22$, $\beta = -0.375$, $N = 1239$

LNTFGDEVFNPK pc2

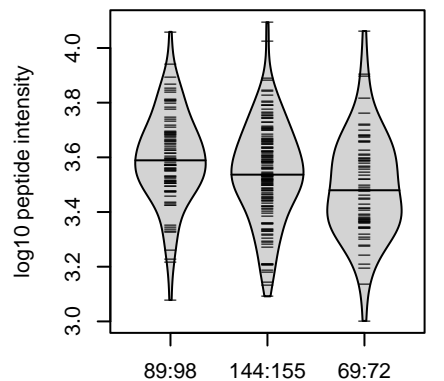
1:236211491:C:T_T
 $p = 9.6e-22$, $\beta = -0.377$, $N = 1224$

LSAEDLVLEGAGLR pc2

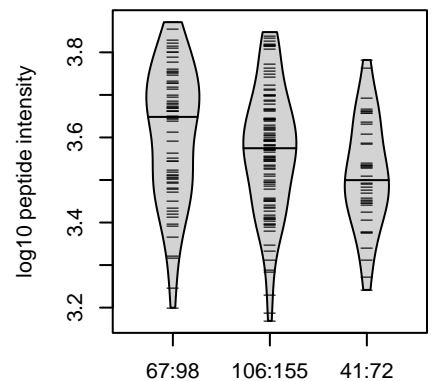
1:236211491:C:T_T
 $p = 1.7e-21$, $\beta = -0.369$, $N = 1255$

P11047 NP2

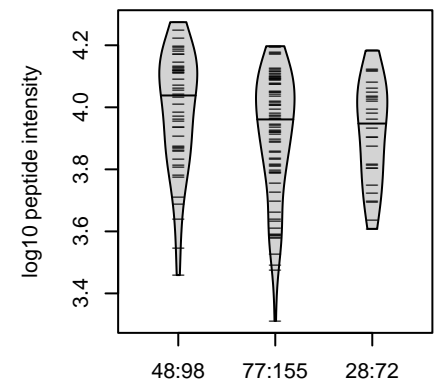
rs4660150
 $p = 0.12$, $\beta = -0.121$, $N = 325$

TEQQTADQLLAR pc2

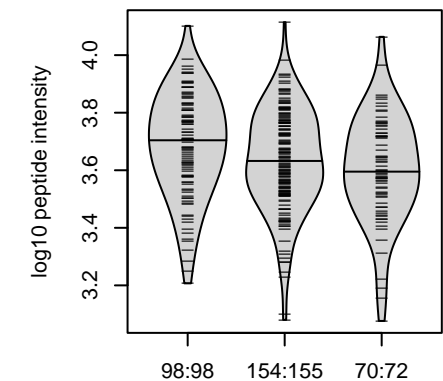
rs4660150
 $p = 0.014$, $\beta = -0.193$, $N = 302$

LNEIEGTLNK pc2

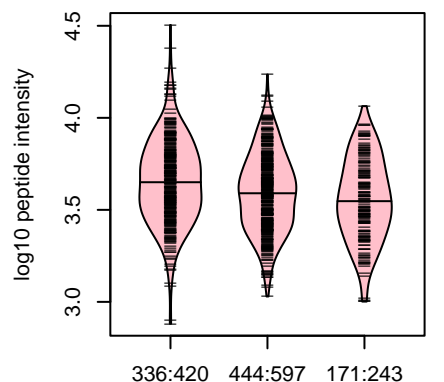
rs4660150
 $p = 0.015$, $\beta = -0.233$, $N = 214$

AFDITYVR pc2

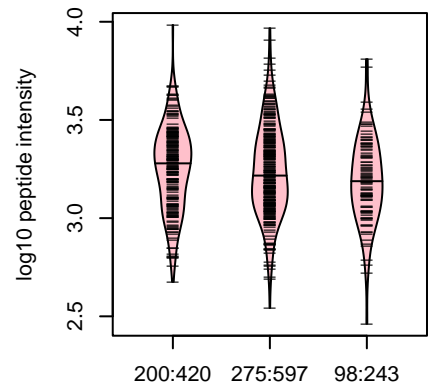
rs4660150
 $p = 0.076$, $\beta = -0.202$, $N = 153$

QDIAVISDSYFPR pc2

rs4660150
 $p = 0.091$, $\beta = -0.13$, $N = 322$

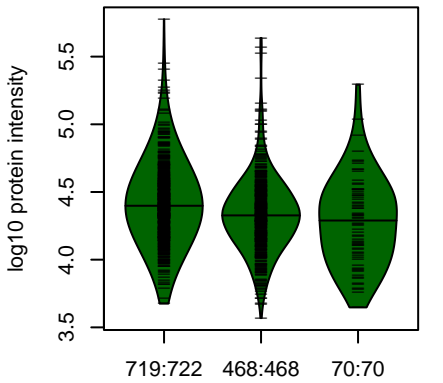
**ACNCNPYGTMK pc2
rs20558 ALT**

1:236211491:C:T_T
 $p = 0.0083$, $\text{model} = \text{REC}$, $N = 951$

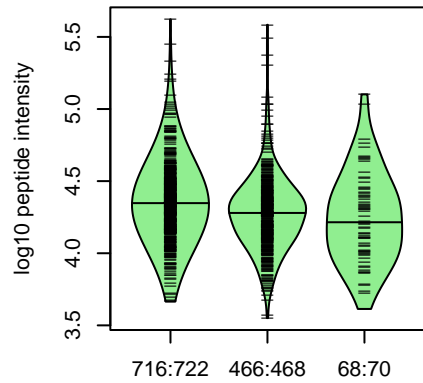
**ACNCNLYGTMK pc2
rs20558 REF**

1:236211491:C:T_T
 $p = 0.074$, $\text{model} = \text{DOM}$, $N = 573$

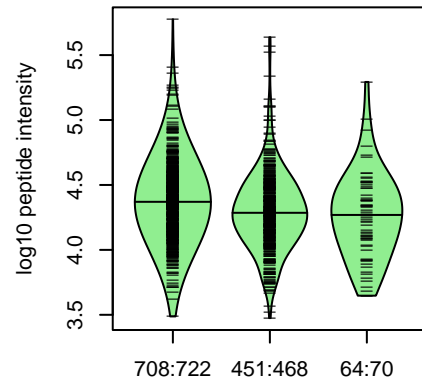
Locus: 221 (Sort: 249)
 Status: Not replicated
 80% power: No
 SNP: 1:236211491:C:T
 rsID: rs4660150
 UniProtID: P11047
 HGNC gene: LAMC1
 Type: Trans-pQTL

RNASE3 [cis]

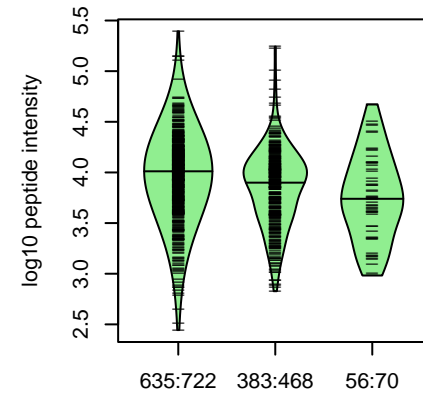
14:21426161:G:A_A
 $p = 2.1e-11$, $\beta = -0.311$, $N = 1257$

YPVVPVHLDTTI pc2

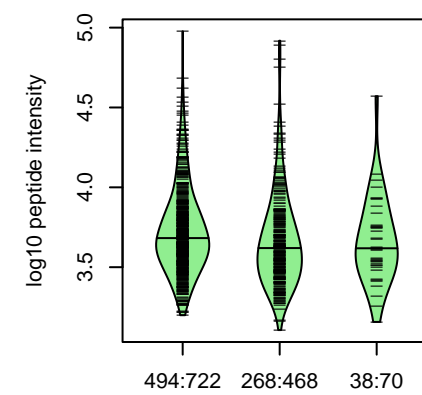
14:21426161:G:A_A
 $p = 1.1e-09$, $\beta = -0.285$, $N = 1250$

AQWFAIQHISLNPPR pc3

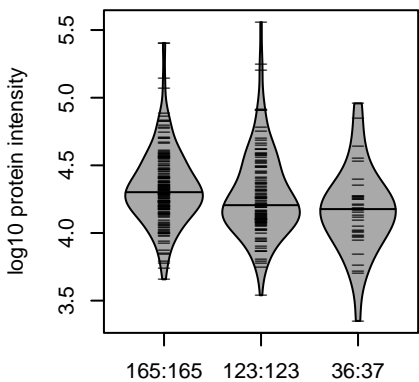
14:21426161:G:A_A
 $p = 4.8e-09$, $\beta = -0.278$, $N = 1223$

TTFANVVNVCGNQSIR pc2

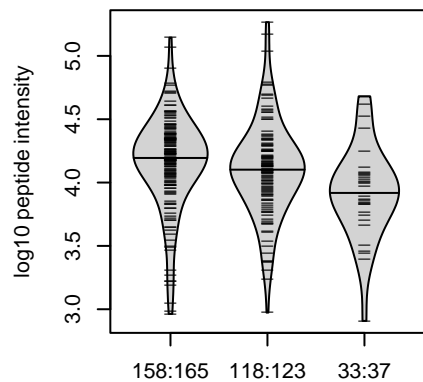
14:21426161:G:A_A
 $p = 4.1e-08$, $\beta = -0.279$, $N = 1074$

FYVVACDNR pc2

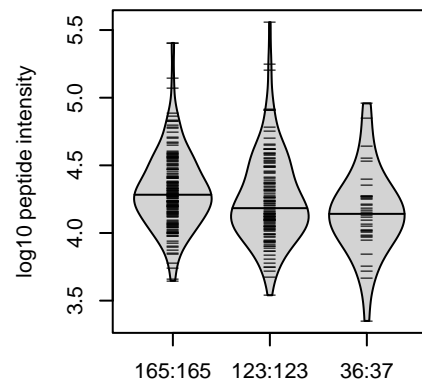
14:21426161:G:A_A
 $p = 0.00026$, $\beta = -0.219$, $N = 800$

P12724 NP4

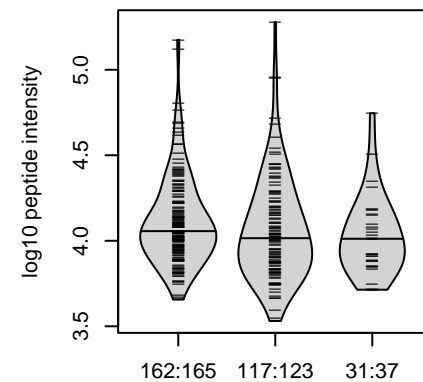
rs2771312
 $p = 0.0022$, $\beta = -0.245$, $N = 324$

TTFANVVNVCGNQSIR pc2

rs2771312
 $p = 0.004$, $\beta = -0.238$, $N = 309$

YPVVPVHLDTTI pc2

rs2771312
 $p = 0.0045$, $\beta = -0.228$, $N = 324$

AQWFAIQHISLNPPR pc3

rs2771312
 $p = 0.013$, $\beta = -0.207$, $N = 310$

Locus: 222 (Sort: 250)

Status: Not replicated

80% power: No

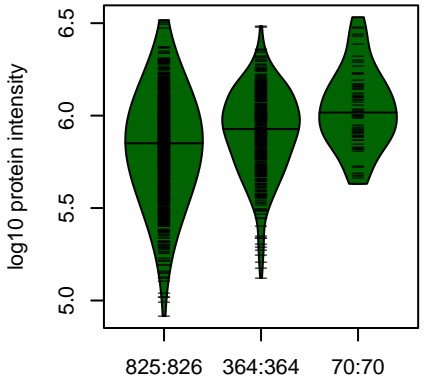
SNP: 14:21426161:G:A

rsID: rs2771312

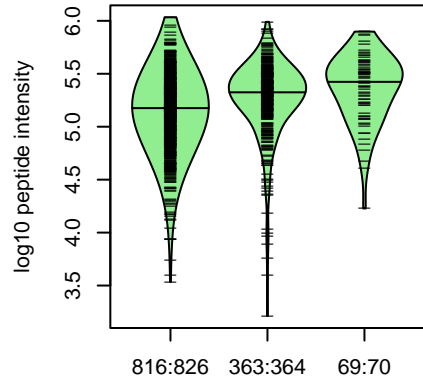
UniProtID: P12724

HGNC gene: RNASE3

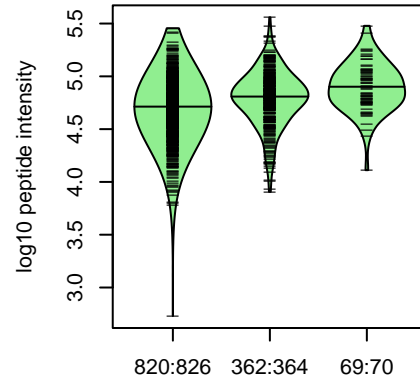
Type: Cis-pQTL

CCL18 [cis]

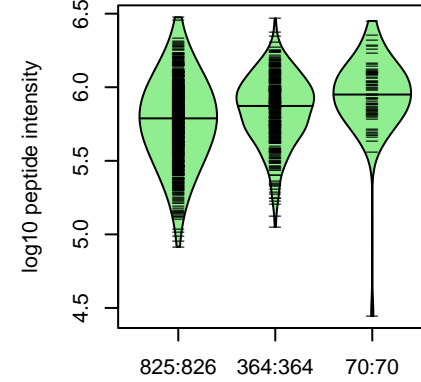
17:34389361:G:A_G
 $p = 2.3e-11$, $\beta = 0.314$, $N = 1259$

QICADPNK pc2

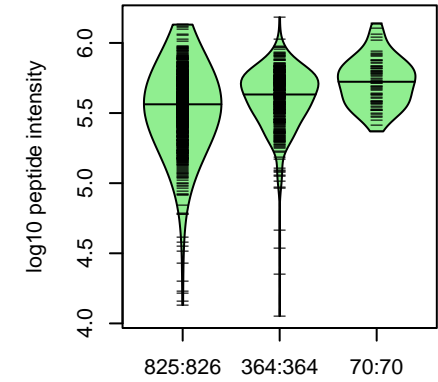
17:34389361:G:A_G
 $p = 5.5e-15$, $\beta = 0.367$, $N = 1248$

QICADPNKK pc2

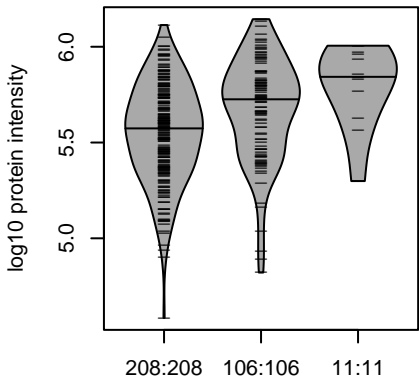
17:34389361:G:A_G
 $p = 3.2e-13$, $\beta = 0.343$, $N = 1251$

PGVILLTK pc2

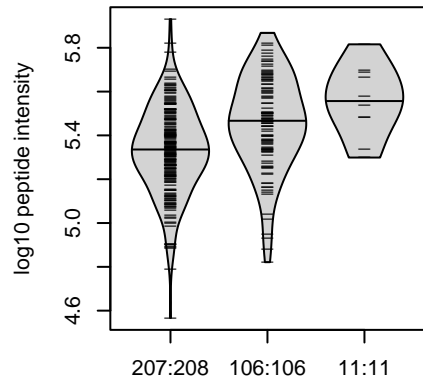
17:34389361:G:A_G
 $p = 4.3e-12$, $\beta = 0.325$, $N = 1259$

FIVDYSETSPQCPK pc2

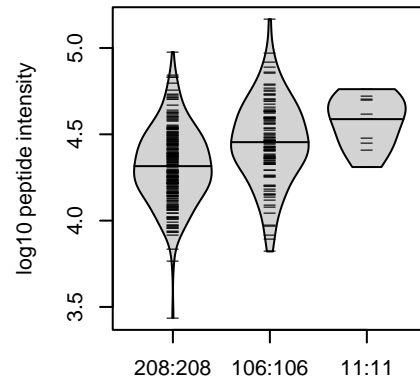
17:34389361:G:A_G
 $p = 1.8e-11$, $\beta = 0.315$, $N = 1259$

P55774 NP4

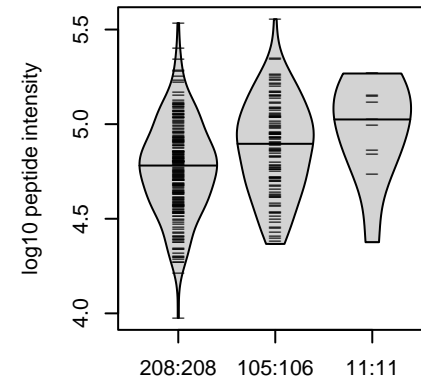
rs854469
 $p = 9.5e-07$, $\beta = 0.477$, $N = 325$

FIVDYSETSPQCPK pc2

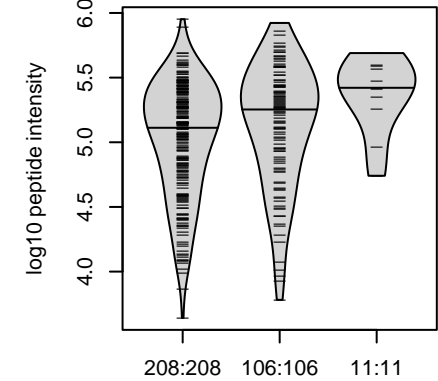
rs854469
 $p = 6.1e-10$, $\beta = 0.596$, $N = 324$

ELCCLVYTSWQIPQK pc3

rs854469
 $p = 6.8e-10$, $\beta = 0.594$, $N = 325$

QICADPNK pc2

rs854469
 $p = 3.7e-06$, $\beta = 0.452$, $N = 324$

PGVILLTK pc2

rs854469
 $p = 0.00011$, $\beta = 0.38$, $N = 325$

Locus: 223 (Sort: 251)

Status: Replicated

80% power: No

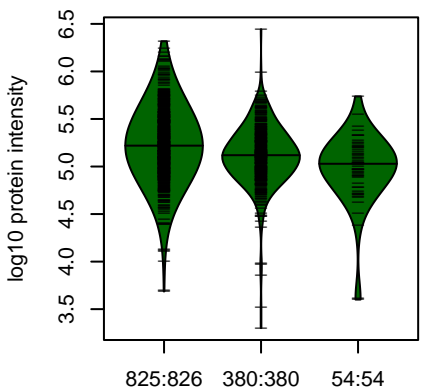
SNP: 17:34389361:G:A

rsID: rs854469

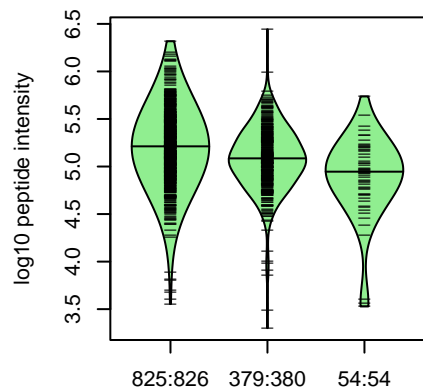
UniProtID: P55774

HGNC gene: CCL18

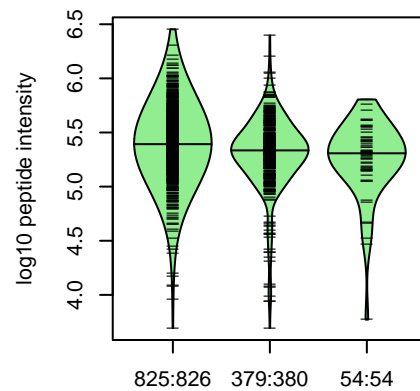
Type: Cis-pQTL

HP [cis]

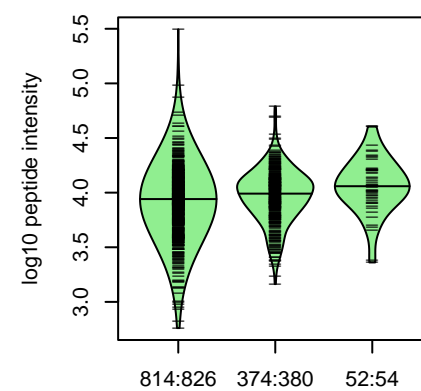
16:72285039:A:C_C
 $p = 2.3e-11$, $\beta = -0.327$, $N = 1259$

VTSIQDWVQK pc2

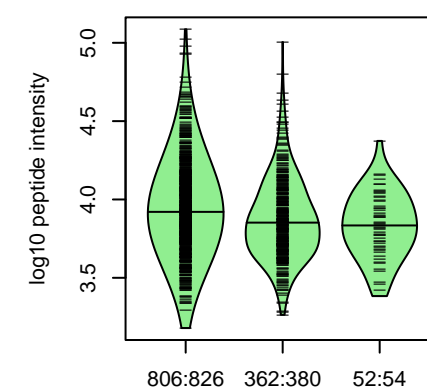
16:72285039:A:C_C
 $p = 1.5e-12$, $\beta = -0.346$, $N = 1258$

LPECEAVCGK pc2

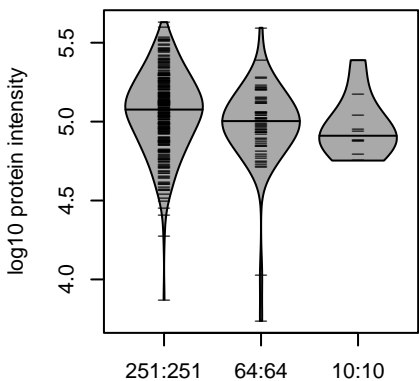
16:72285039:A:C_C
 $p = 5.7e-07$, $\beta = -0.246$, $N = 1258$

TEGDGVYTLNNEK pc2

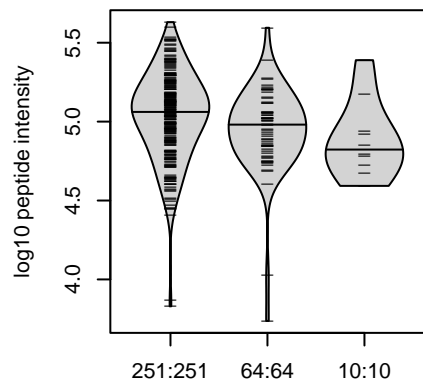
16:72285039:A:C_C
 $p = 1.2e-05$, $\beta = 0.218$, $N = 1240$

TEGDGVYTLNDKK pc3

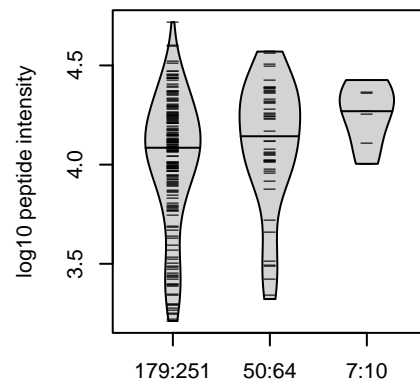
16:72285039:A:C_C
 $p = 6.4e-05$, $\beta = -0.2$, $N = 1220$

P00738 NP4

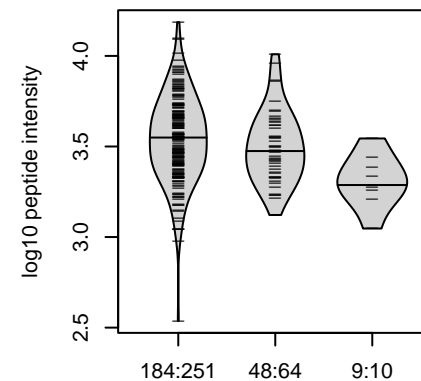
rs62058280
 $p = 0.021$, $\beta = -0.254$, $N = 325$

VTSIQDWVQK pc2

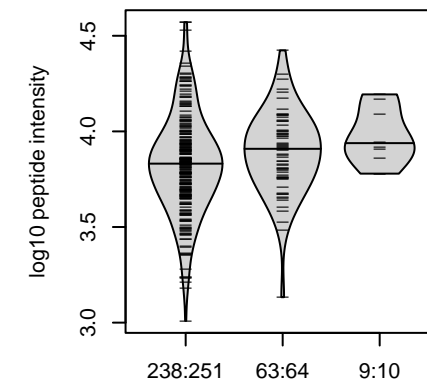
rs62058280
 $p = 0.0035$, $\beta = -0.316$, $N = 325$

NPANPVQR pc2

rs62058280
 $p = 0.011$, $\beta = 0.32$, $N = 236$

LPECEAVCGKPK pc2

rs62058280
 $p = 0.011$, $\beta = -0.305$, $N = 241$

TEGDGVYTLNNEK pc2

rs62058280
 $p = 0.025$, $\beta = 0.25$, $N = 310$

Locus: 224 (Sort: 252)

Status: Not replicated

80% power: No

SNP: 16:72285039:A:C

rsID: rs62058280

UniProtID: P00738

HGNC gene: HP

Type: Cis-pQTL