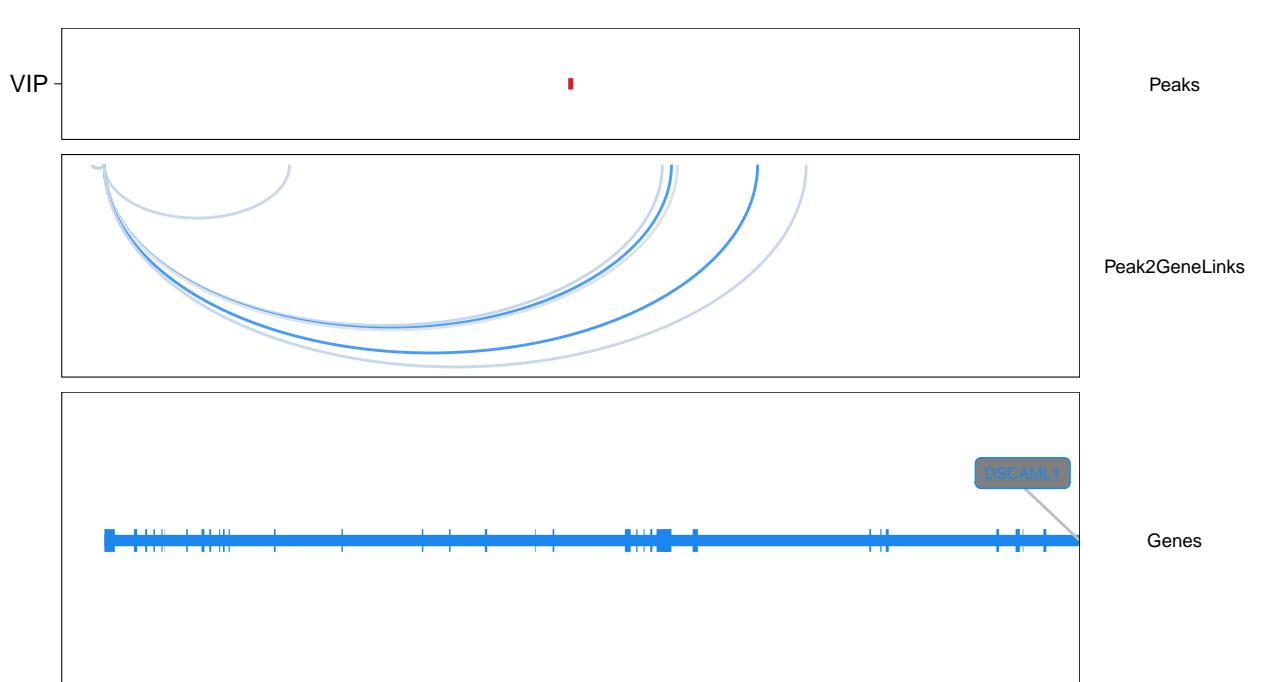
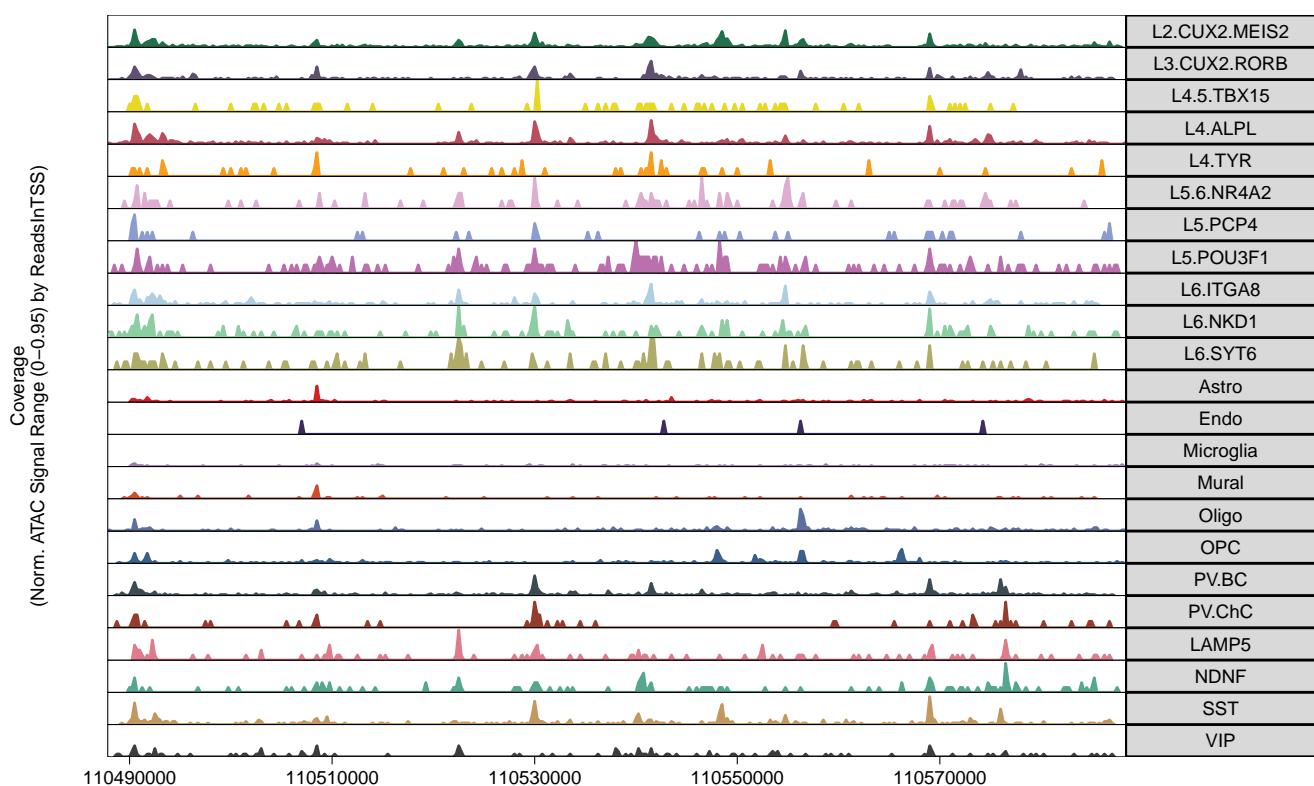
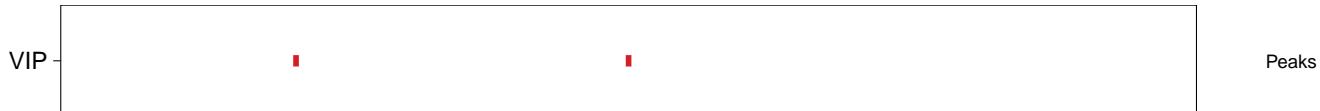
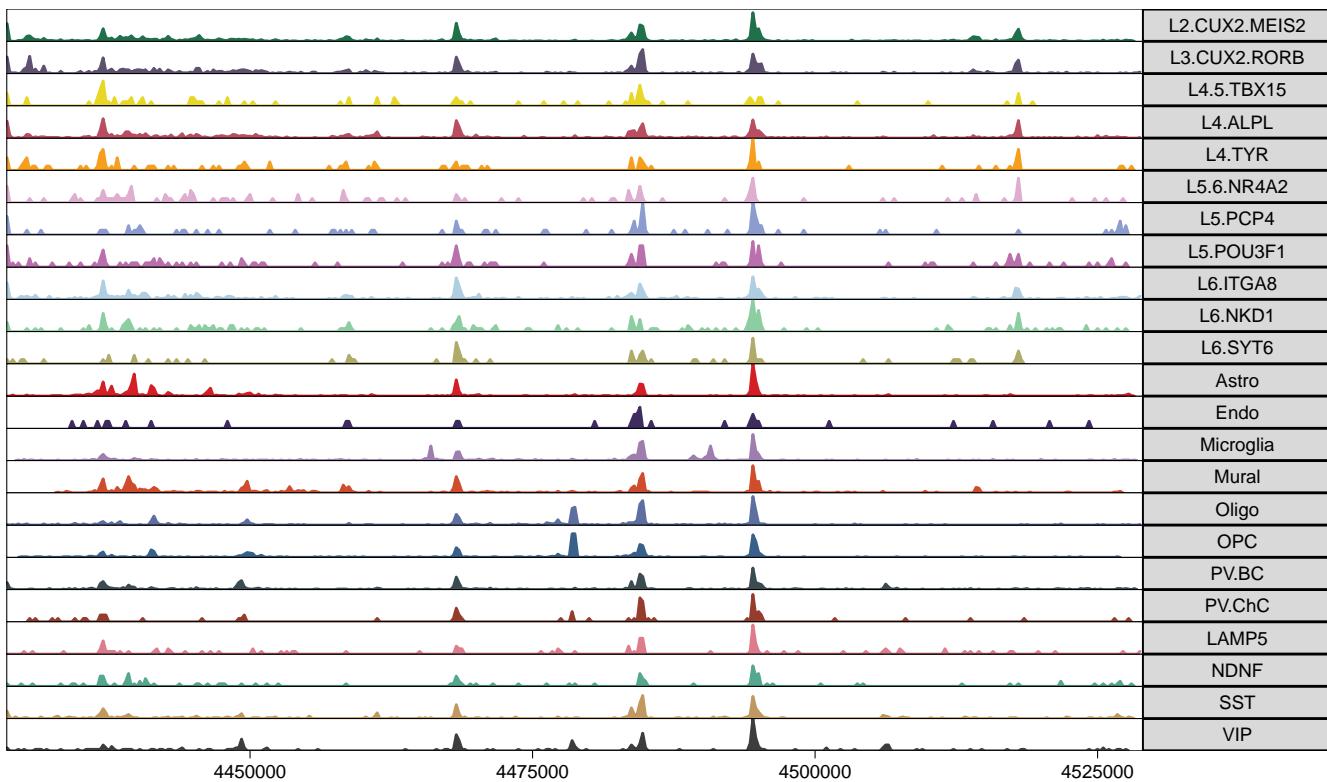


# chr14:110487849–110588350 Marker Peak Tracks for: VIP



## chr20:4428470–4528971 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.79) by ReadsInTSS)

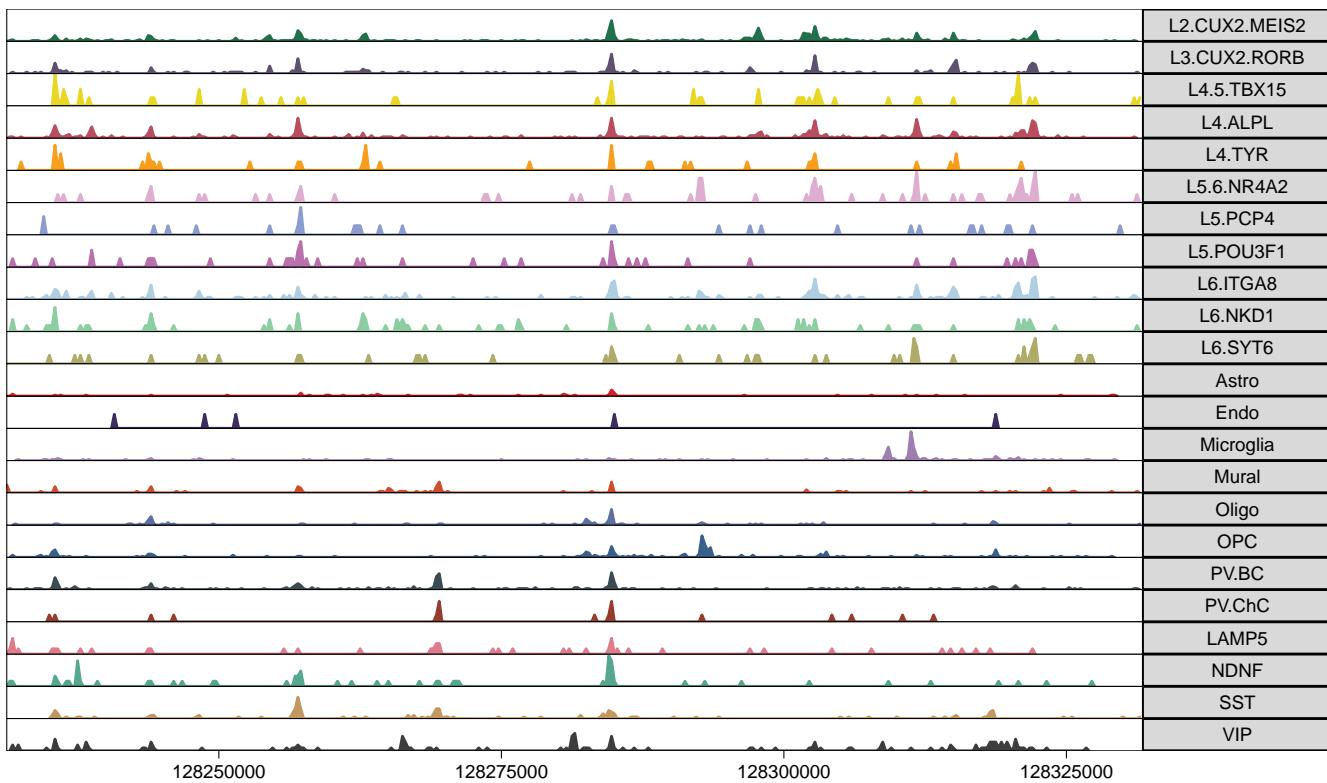
Peaks

LoopTrack



Genes

## chr9:128231229–128331730 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0-0.9) by ReadsInTSS)

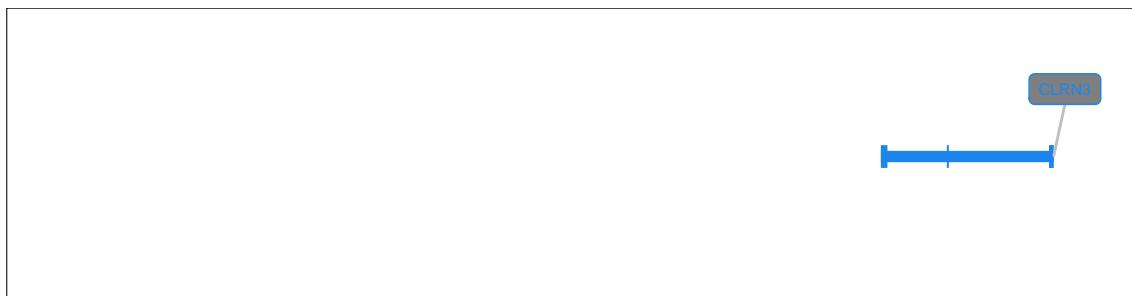
VIP

Peaks

LoopTrack

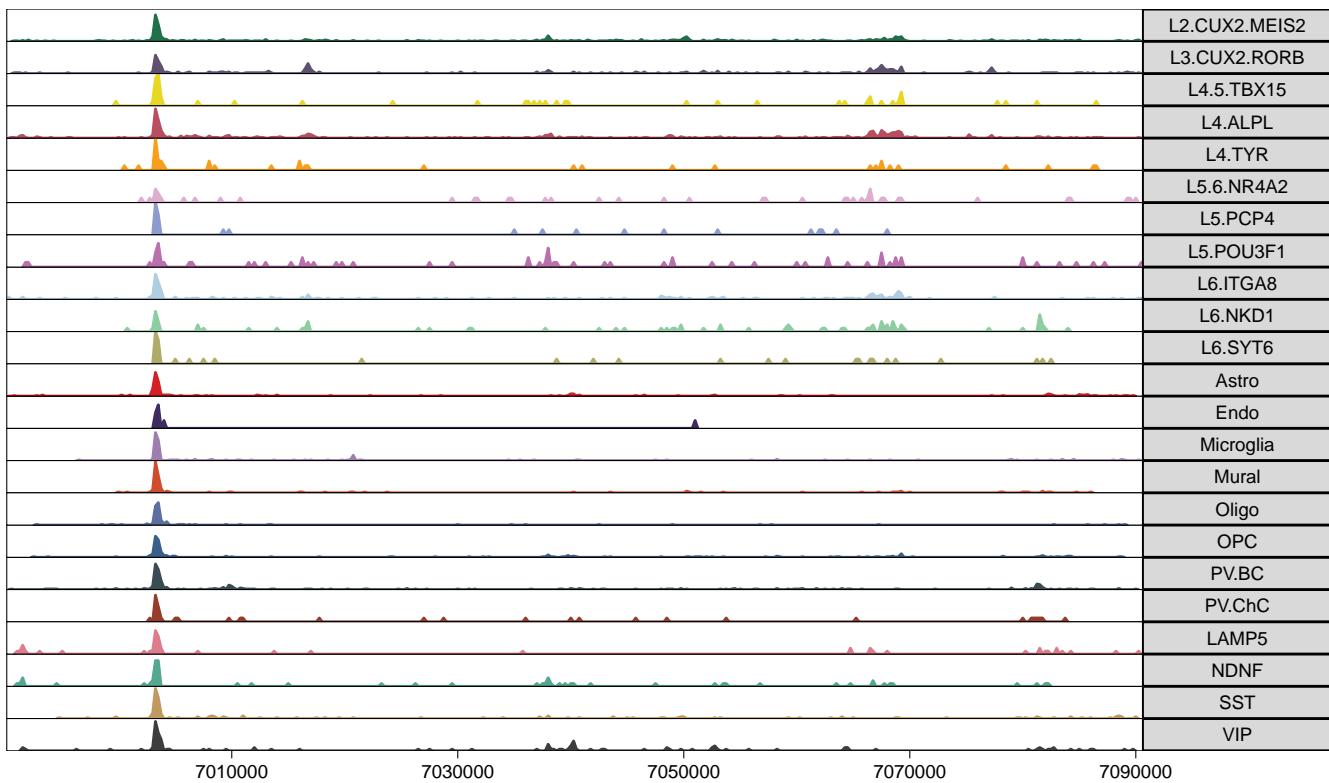


Genes



## chr10:6990088–7090589 Marker Peak Tracks for: VIP

Coverage (Norm. ATAC Signal Range (0–1.6) by ReadsInTSS)



7010000      7030000      7050000      7070000      7090000

VIP

Peaks

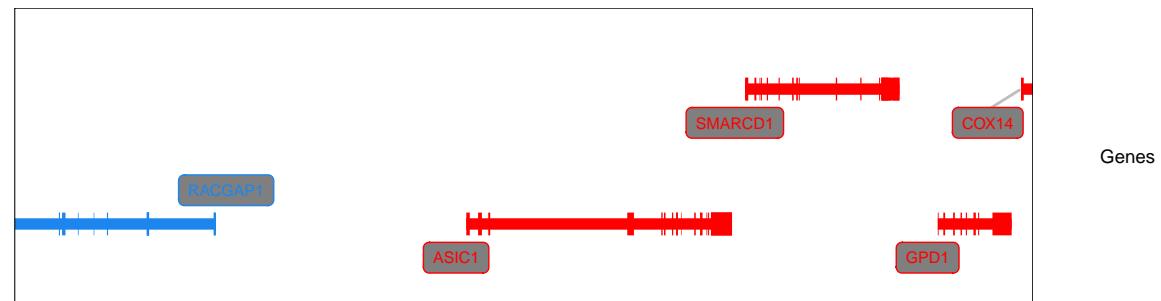
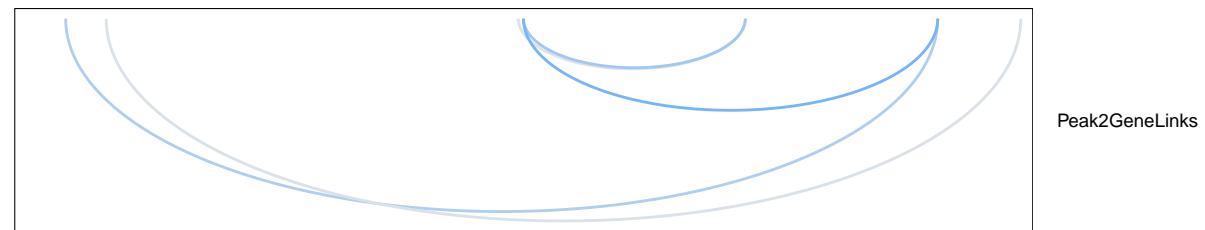
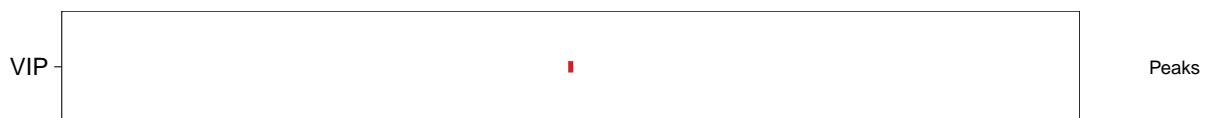
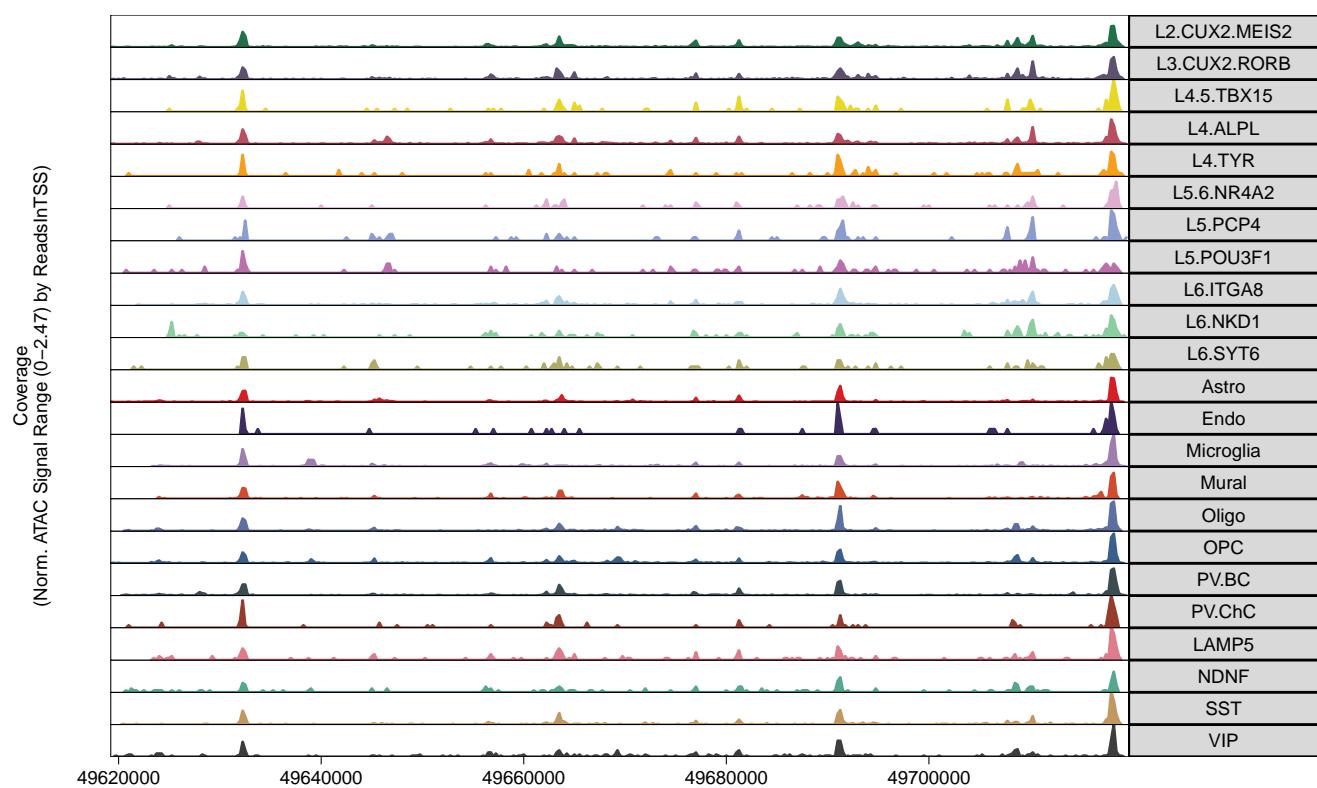
LoopTrack

LINC01656

RTL6

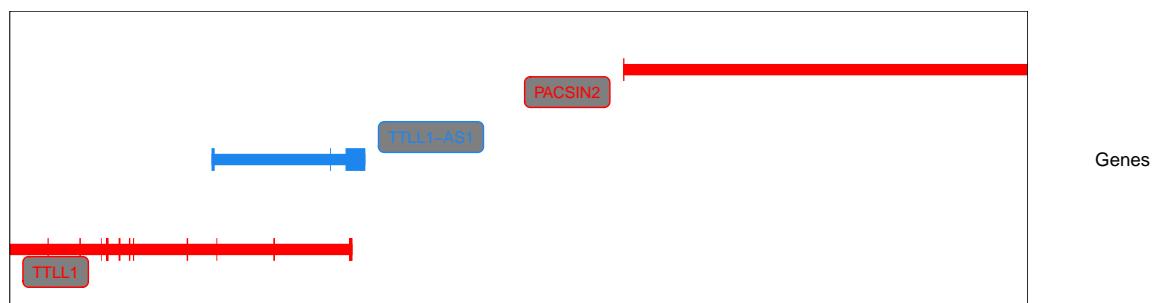
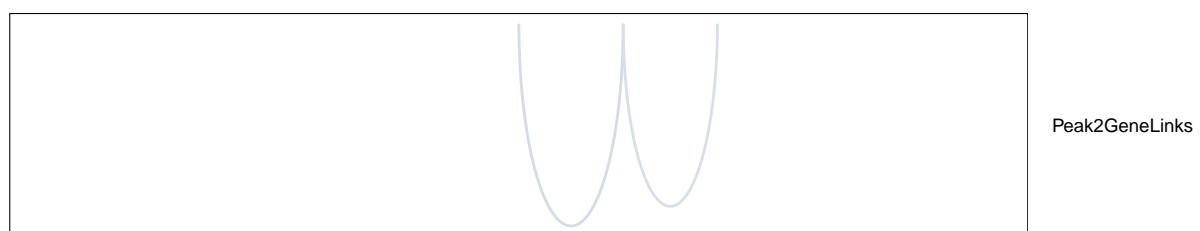
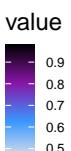
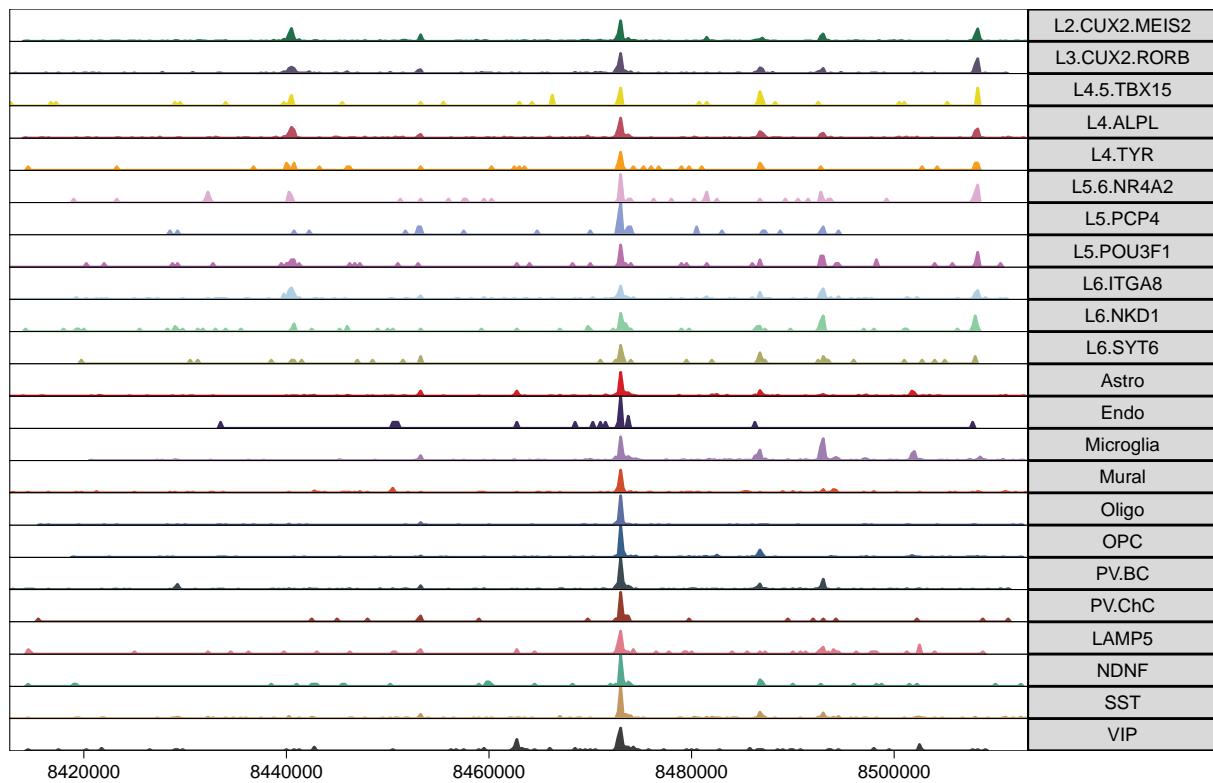
Genes

chr11:49619225–49719726 Marker Peak Tracks for: VIP



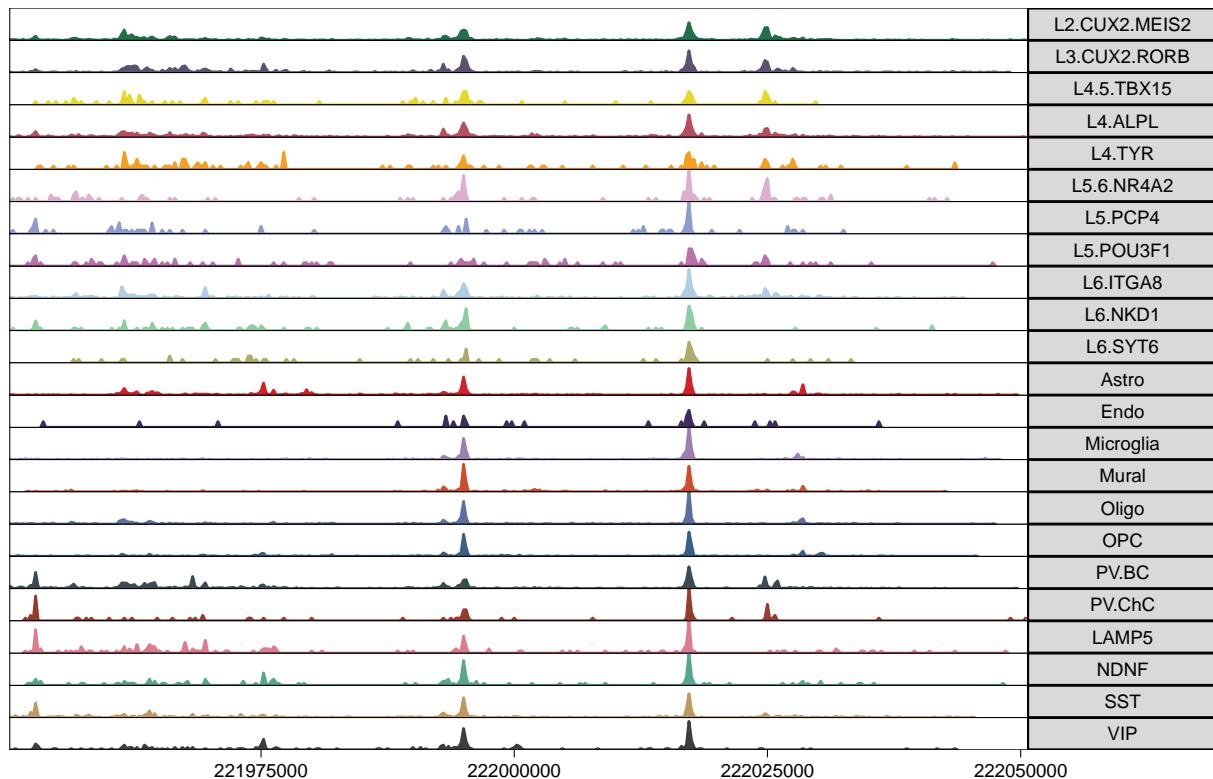
# chr10:8412685–8513186 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–2.08) by ReadsInTSS)

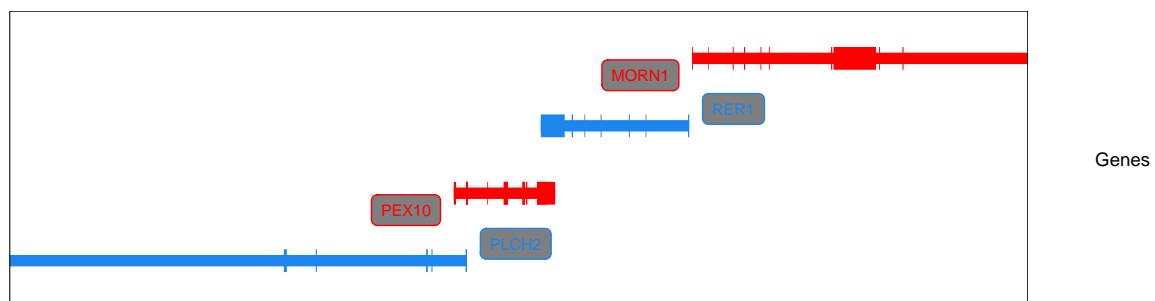
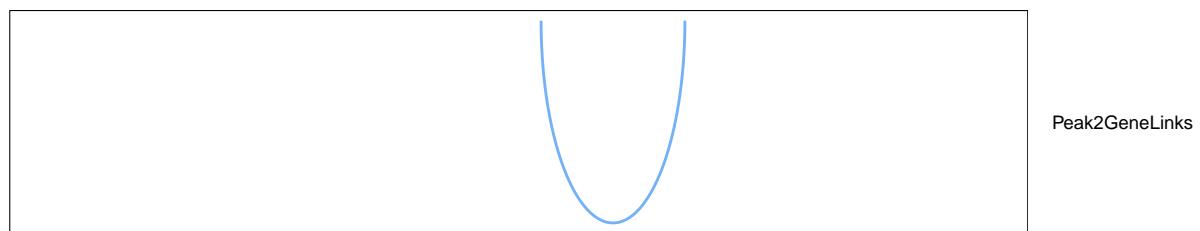


chr1:221950192–222050693 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–2.23) by ReadsInTSS)

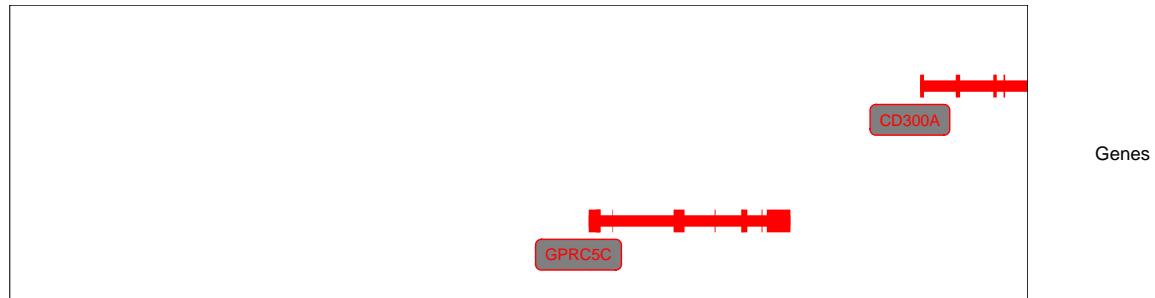
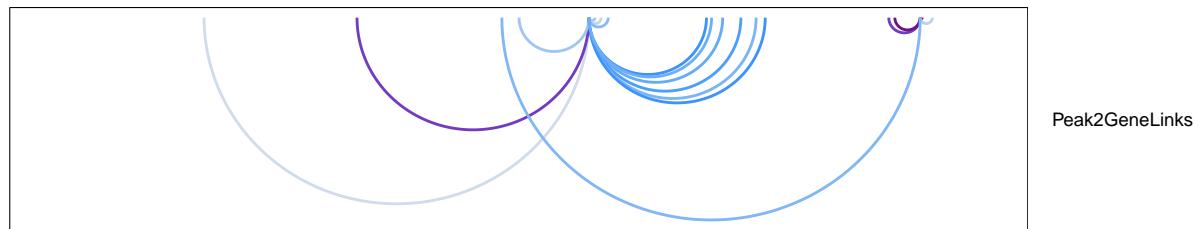
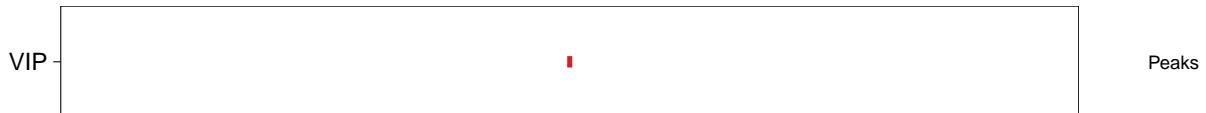
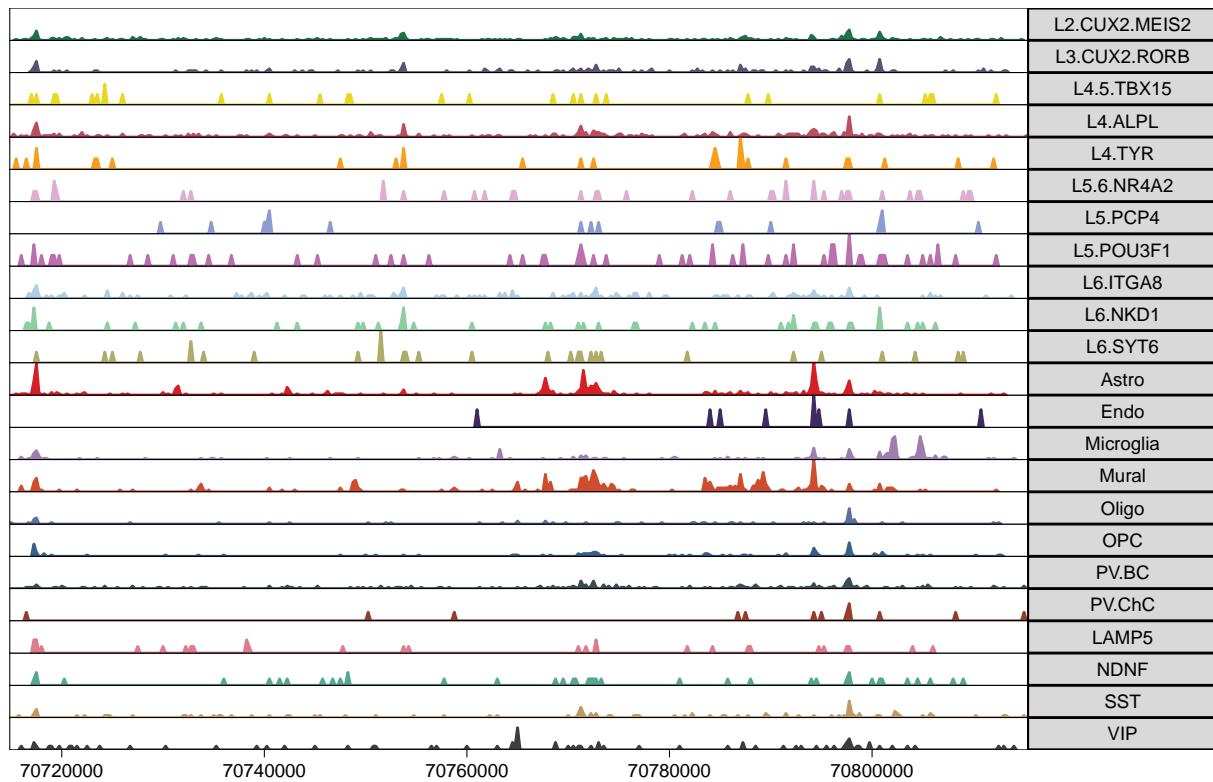


value  
0.9  
0.8  
0.7  
0.6  
0.5



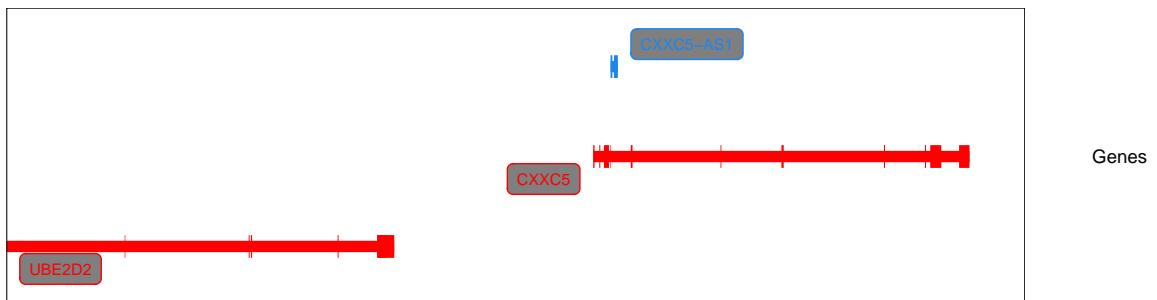
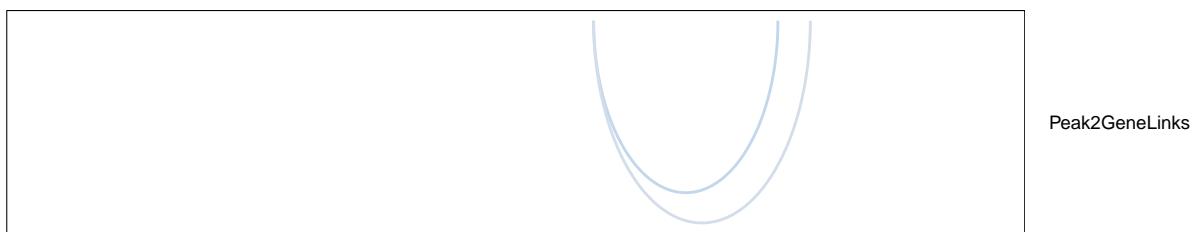
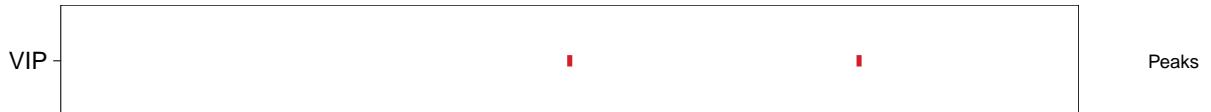
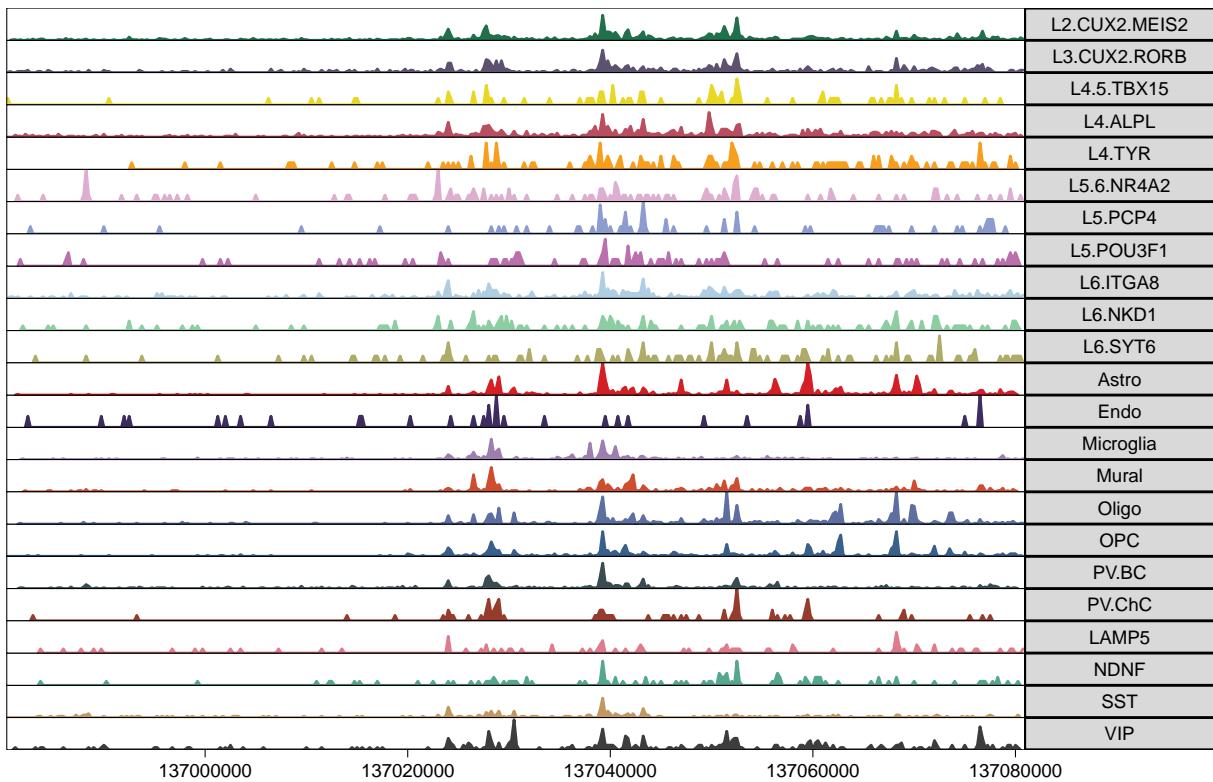
# chr16:70714865–70815366 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.7) by ReadsInTSS)



chr6:136980413–137080914 Marker Peak Tracks for: VIP

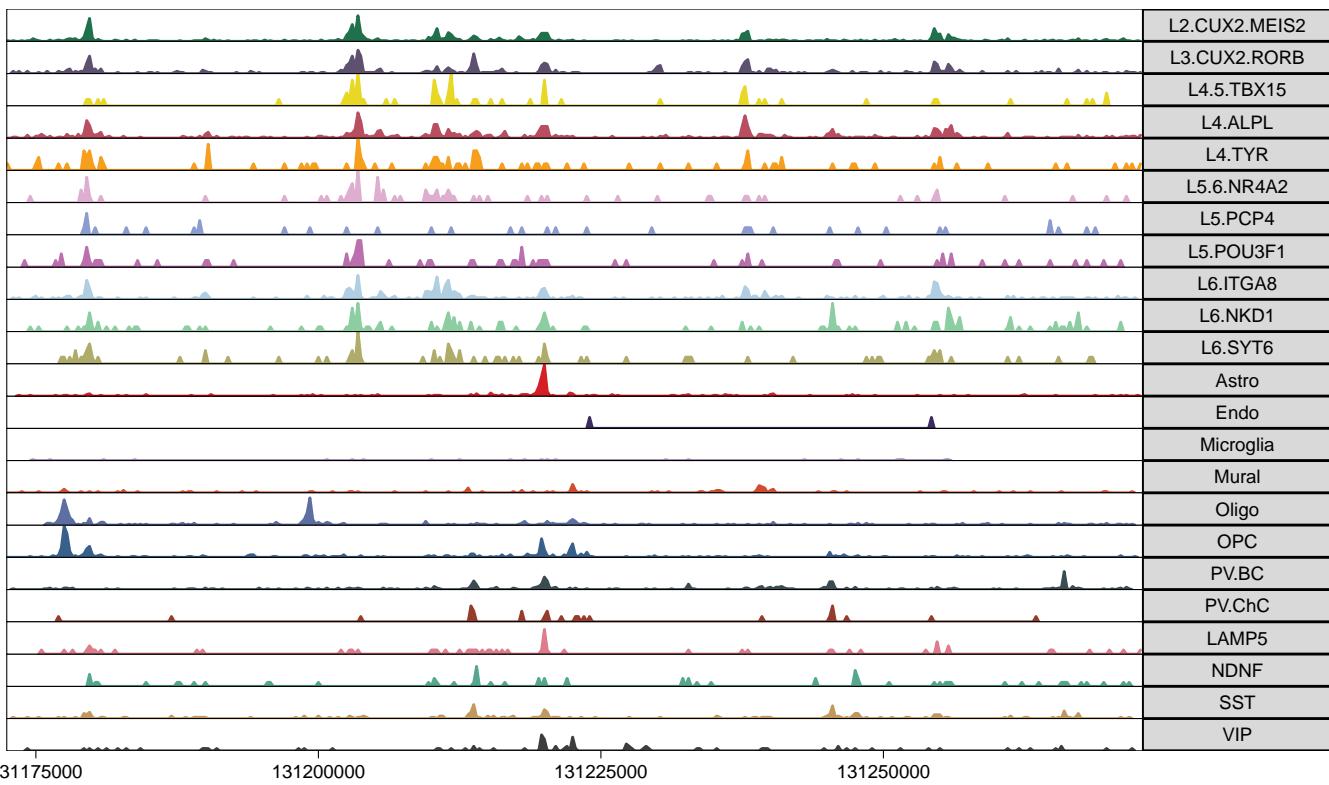
Coverage  
(Norm. ATAC Signal Range (0–1.14) by ReadsInTSS)



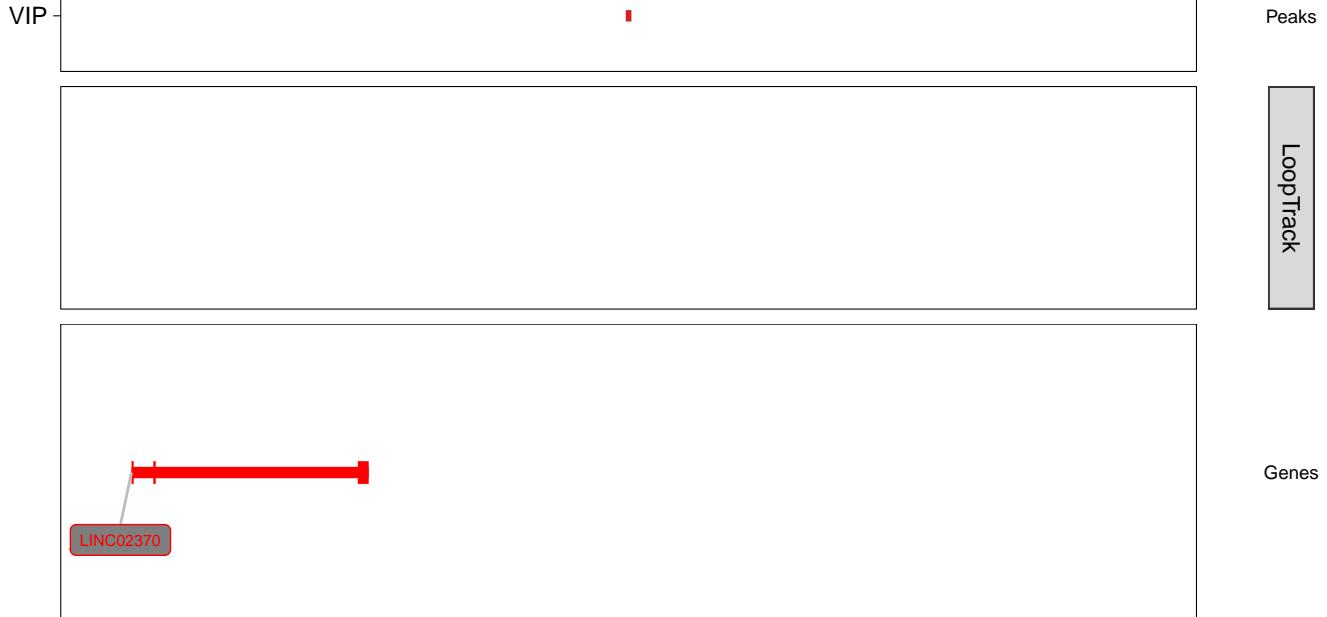
value

0.9
0.8
0.7
0.6
0.5

## chr11:131172421–131272922 Marker Peak Tracks for: VIP

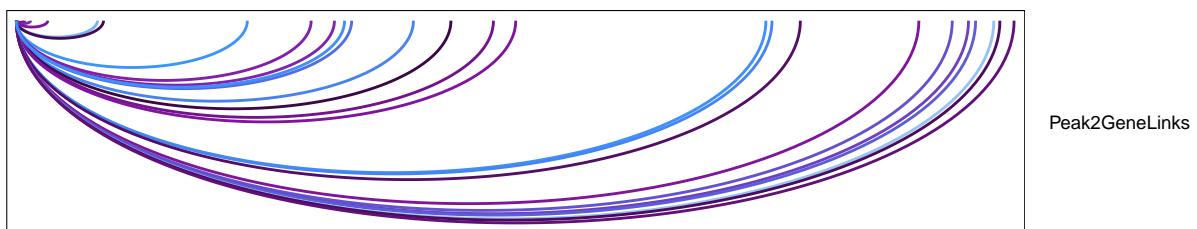
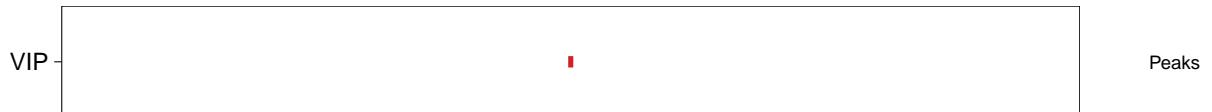
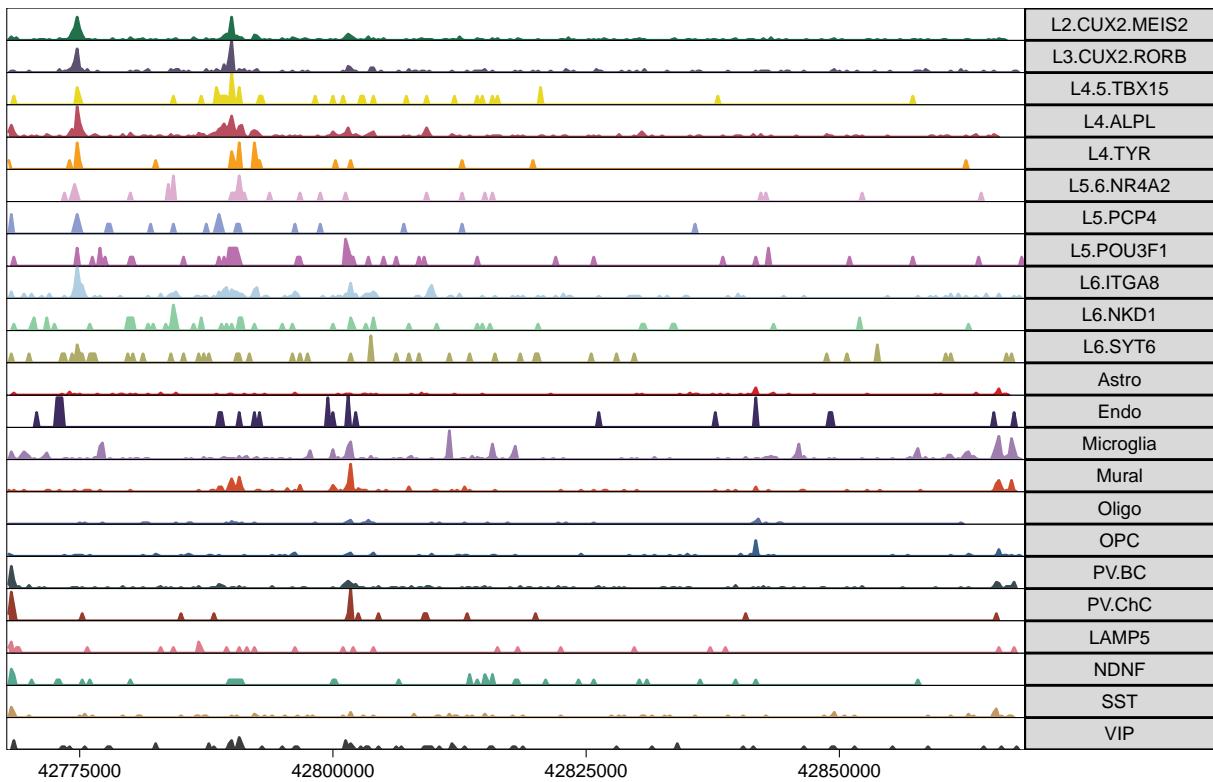
Coverage  
(Norm. ATAC Signal Range (0–1.15) by ReadsInTSS)

131175000      131200000      131225000      131250000



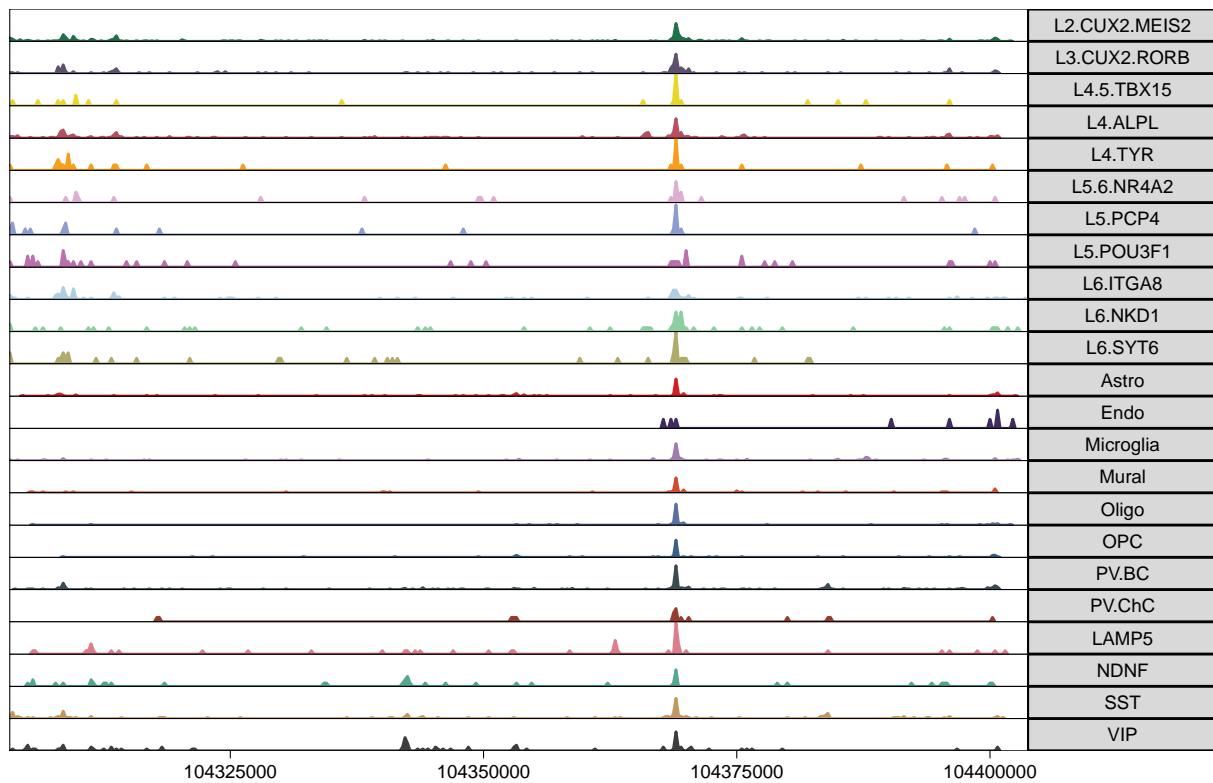
chr8:42767798–42868299 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.85) by ReadsInTSS)



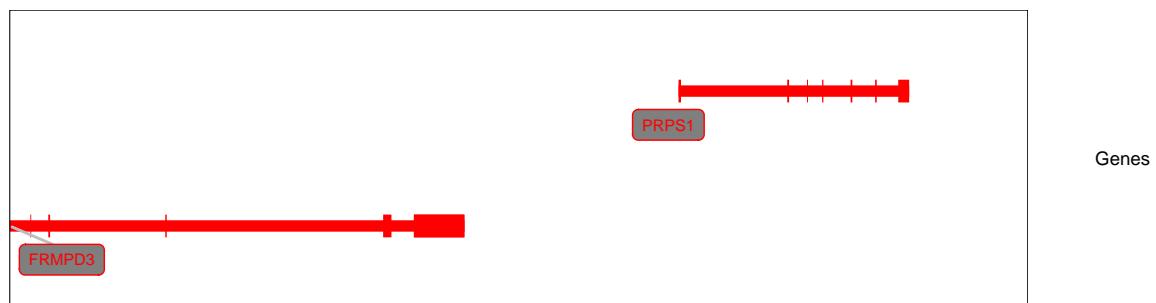
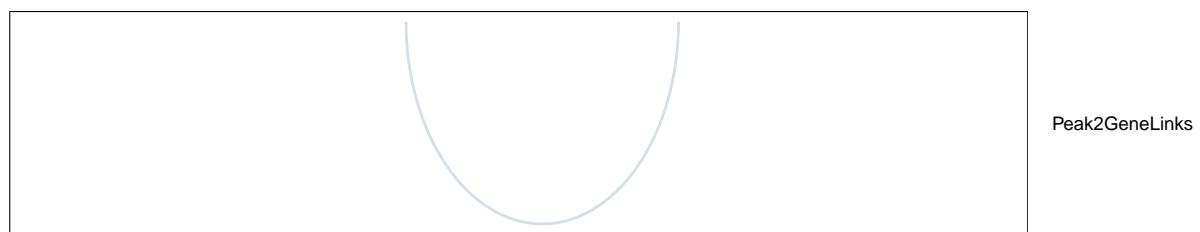
chrX:104303223–104403724 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.38) by ReadsInTSS)

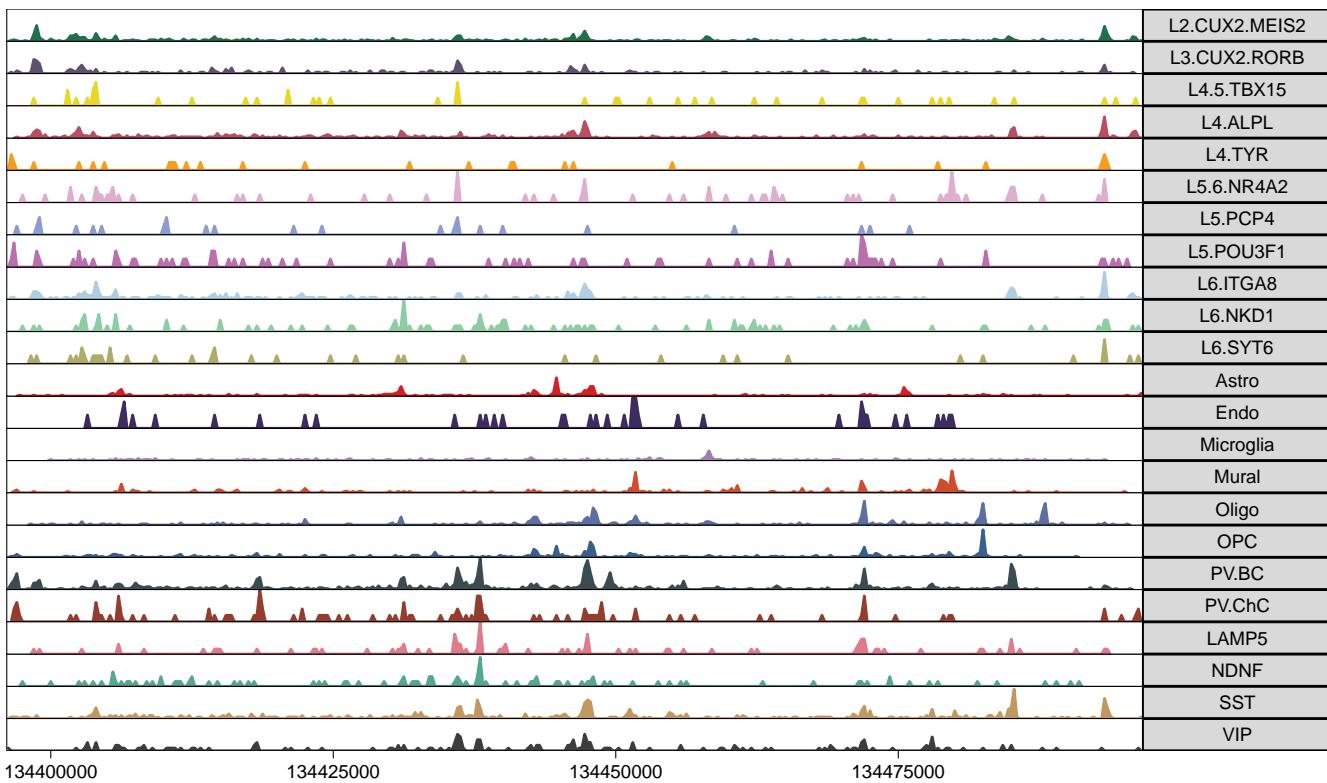


value

0.9
0.8
0.7
0.6
0.5



## chr4:134396106–134496607 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.95) by ReadInTSS)

134400000 134425000 134450000 134475000



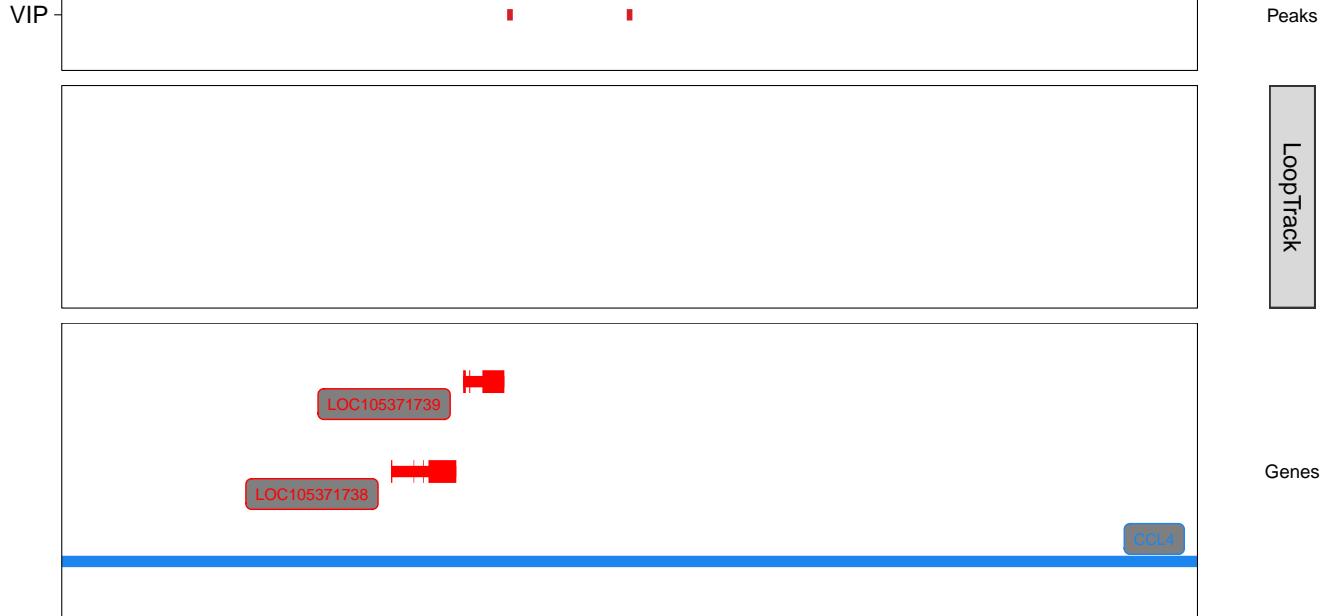
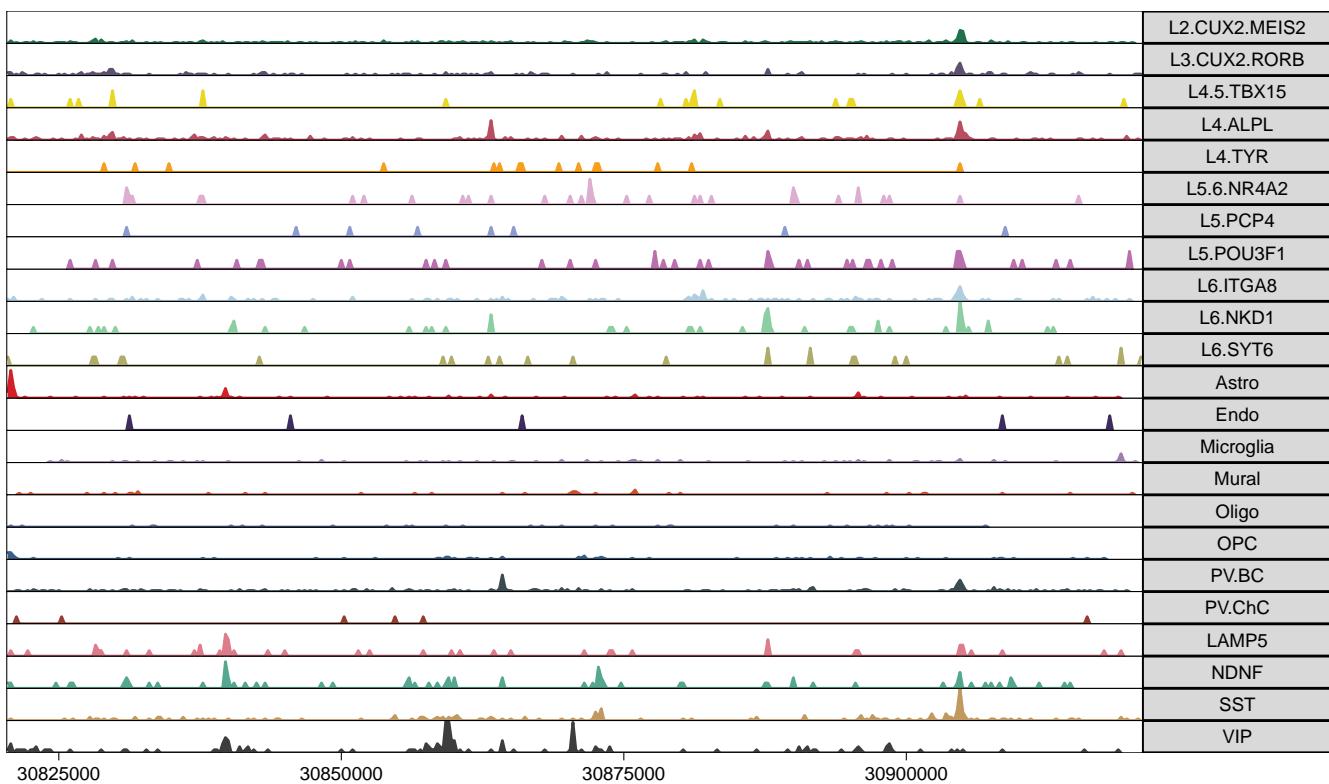
Genes

LoopTrack

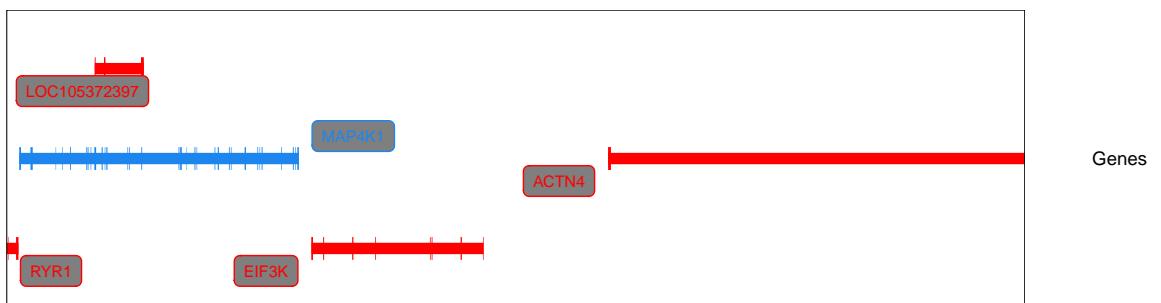
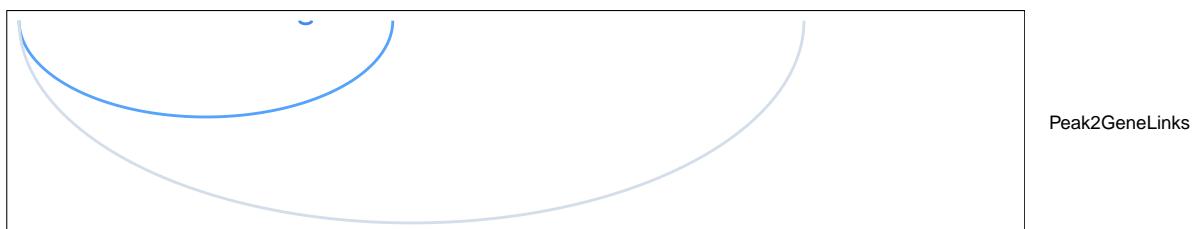
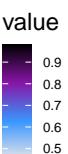
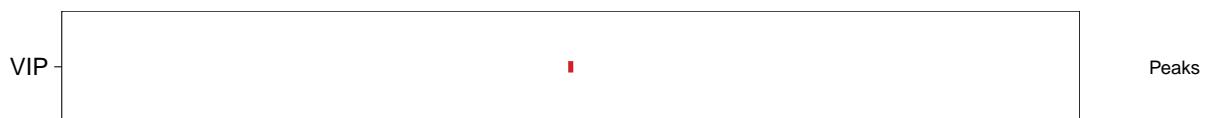
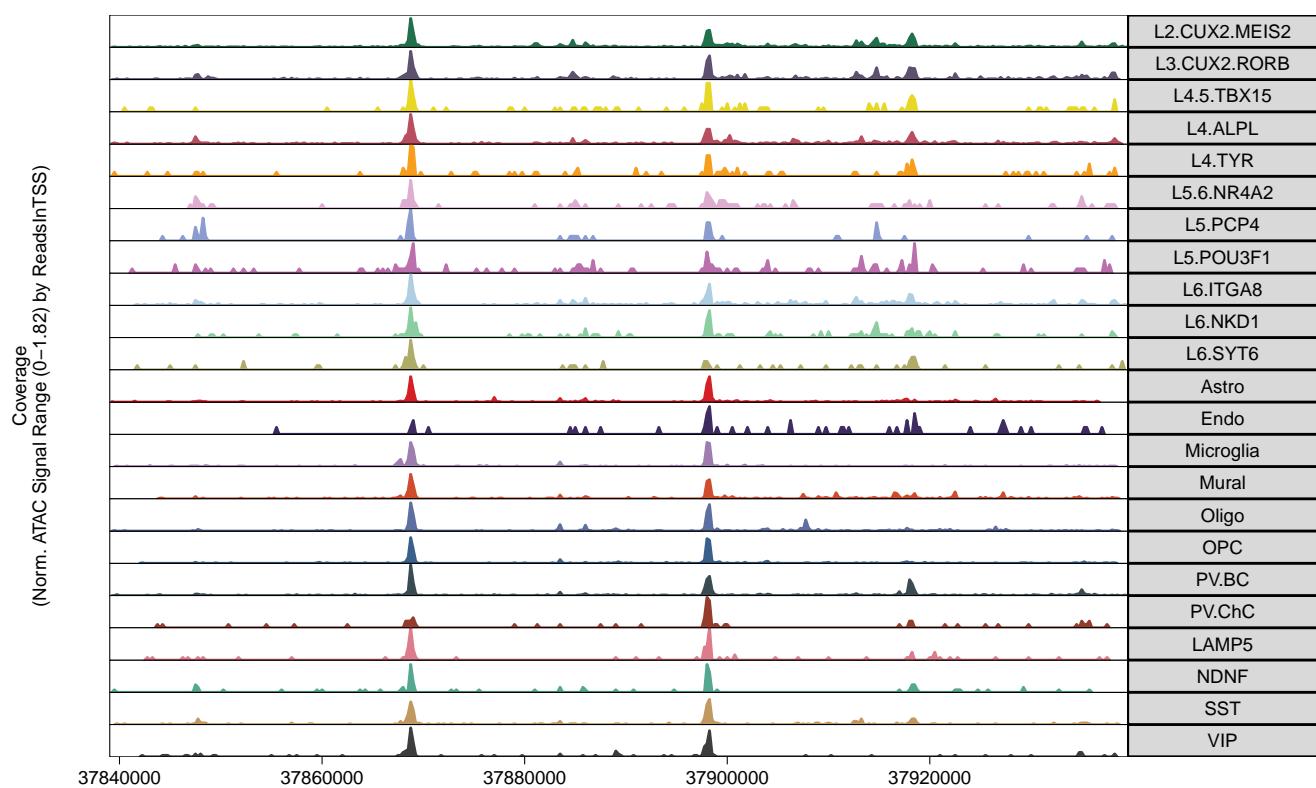
ANKSTA

Peaks

## chr16:30820393–30920894 Marker Peak Tracks for: VIP

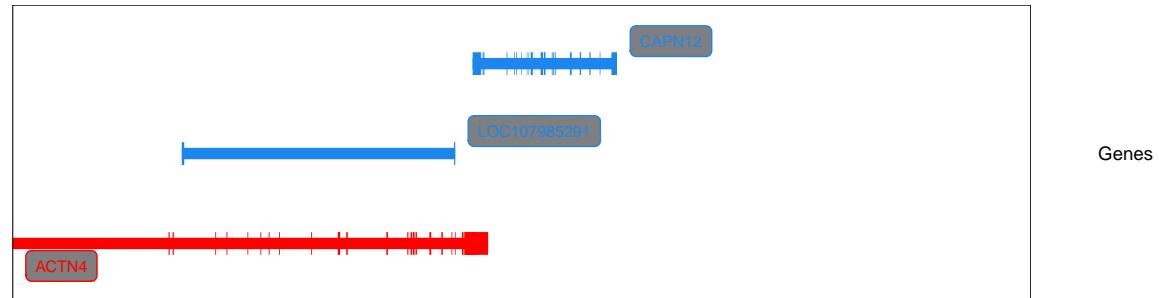
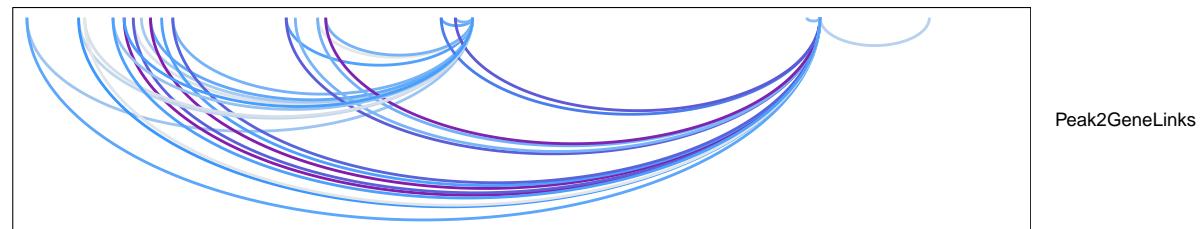
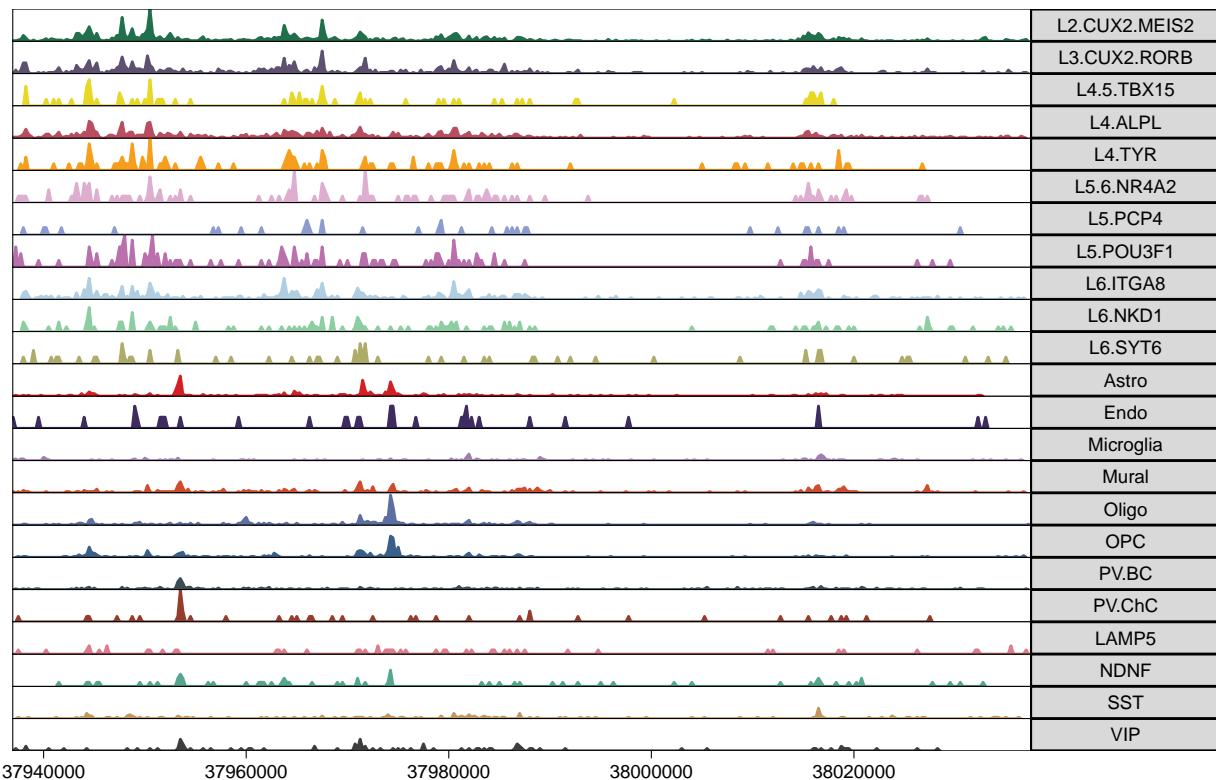
Coverage  
(Norm. ATAC Signal Range (0–0.86) by ReadsInTSS)

chr19:37839037–37939538 Marker Peak Tracks for: VIP

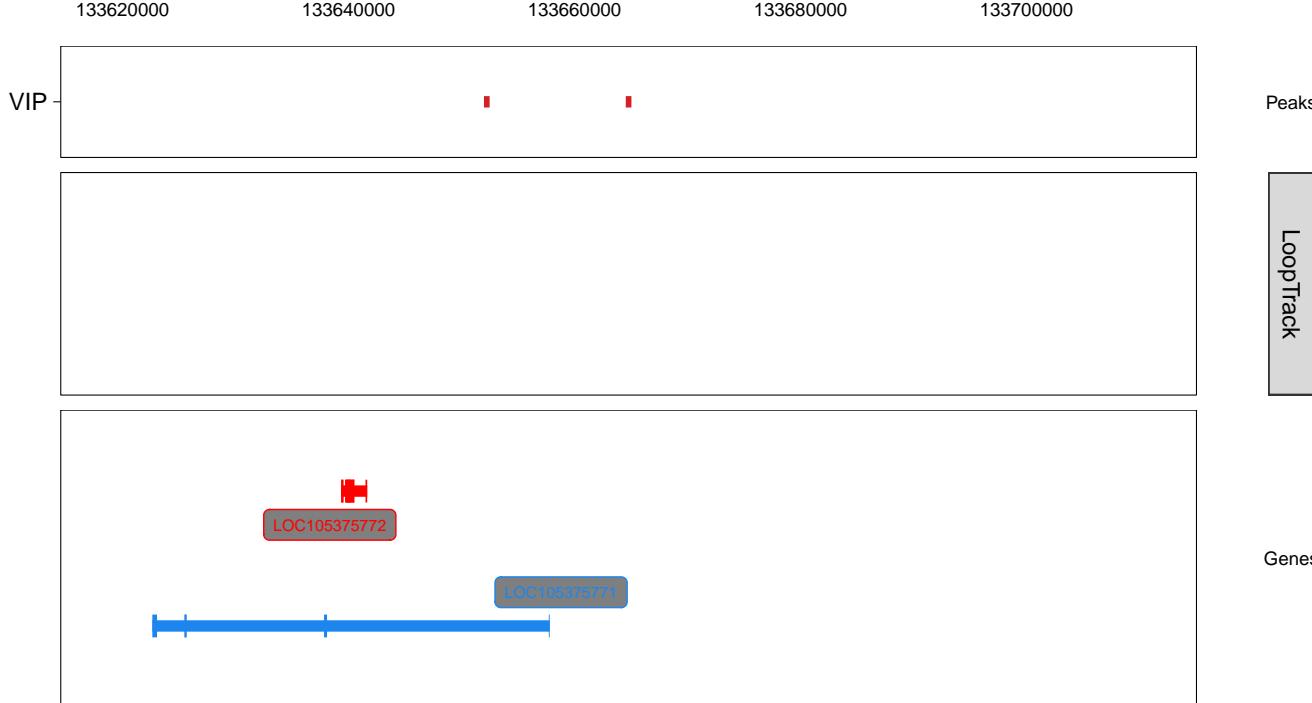
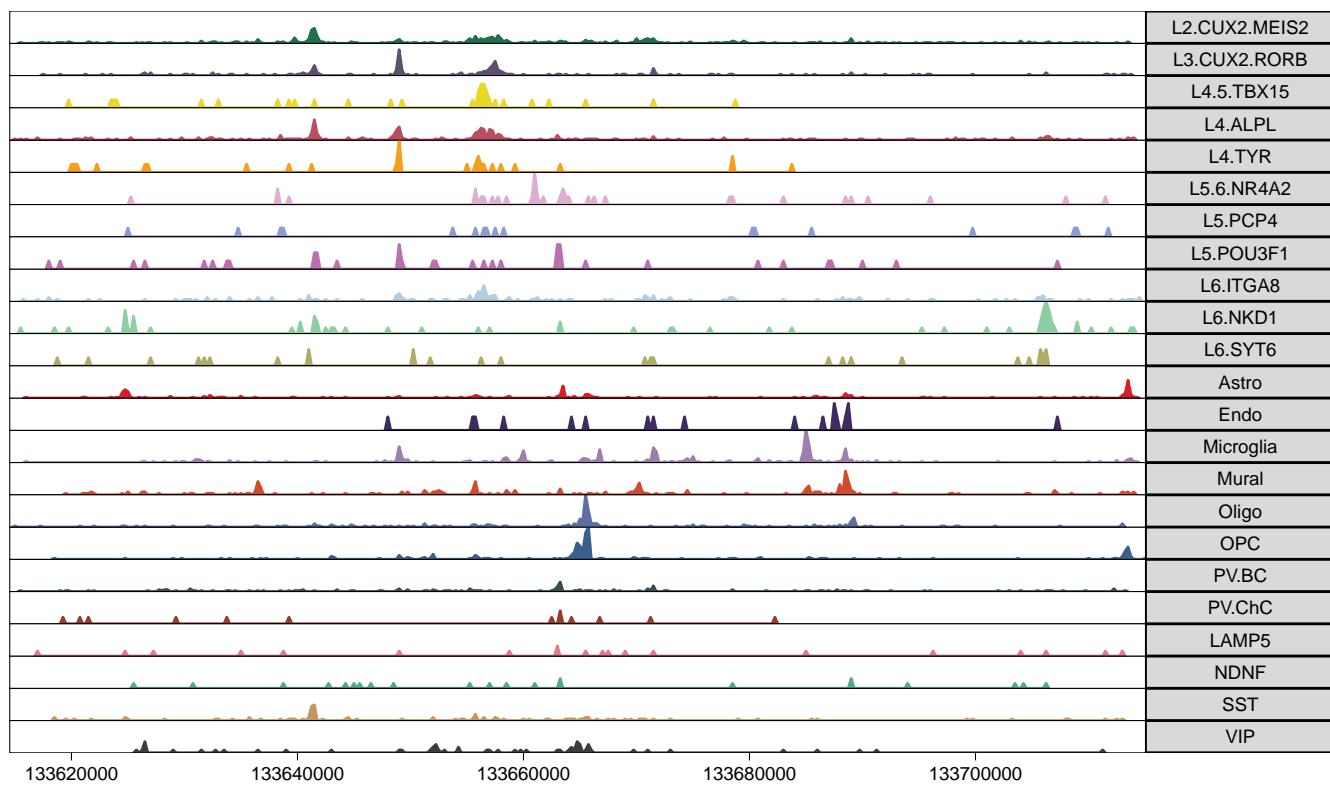


chr19:37936952–38037453 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.13) by ReadsInTSS)

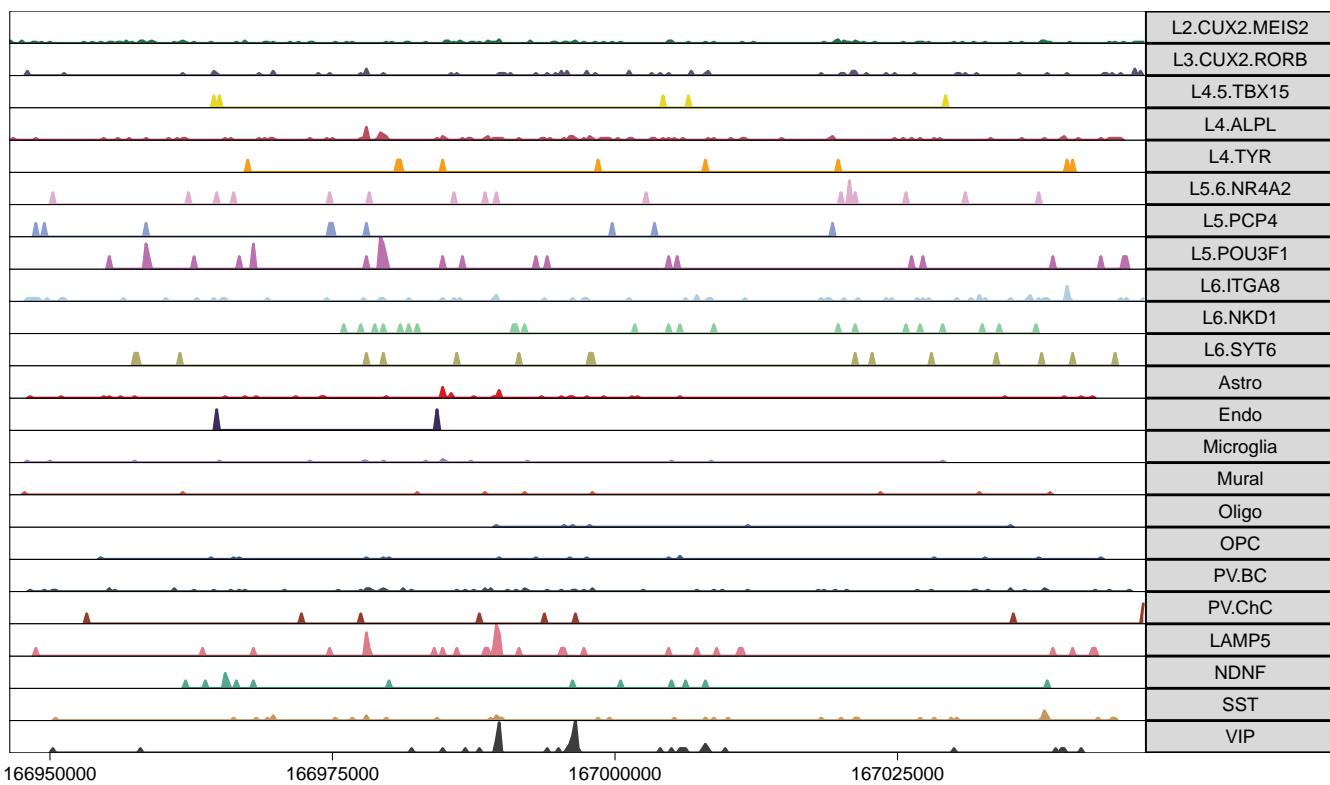


## chr8:133614540–133715041 Marker Peak Tracks for: VIP

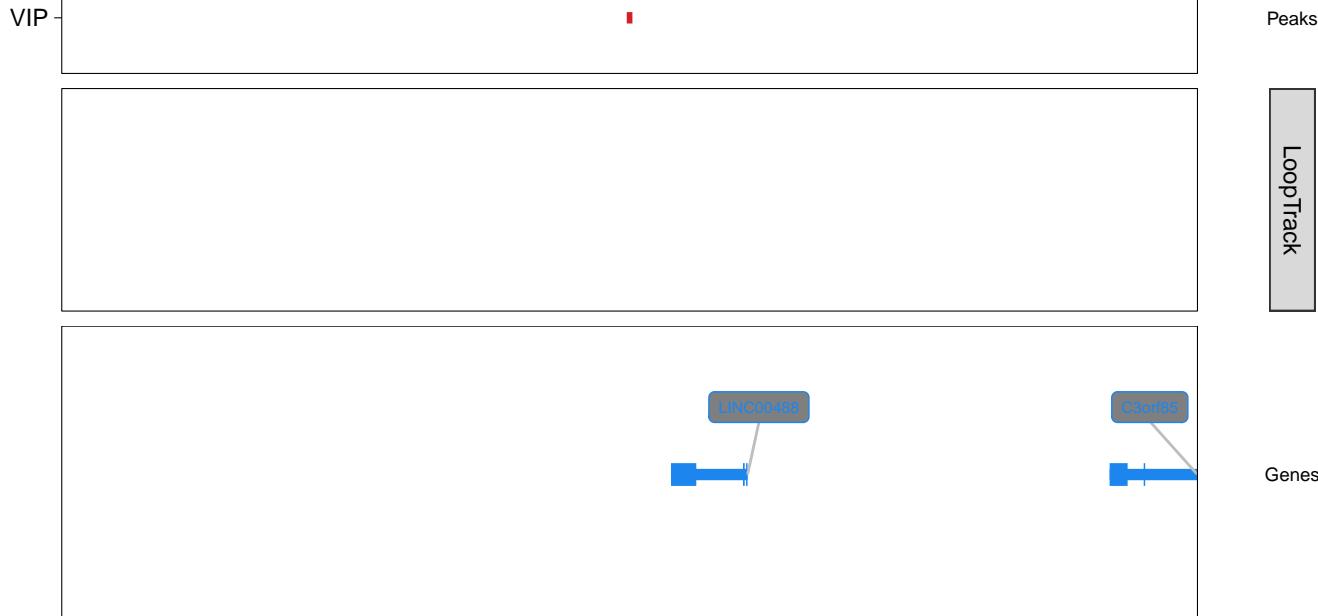
Coverage  
(Norm. ATAC Signal Range (0–0.94) by ReadsInTSS)

## chr2:166946440–167046941 Marker Peak Tracks for: VIP

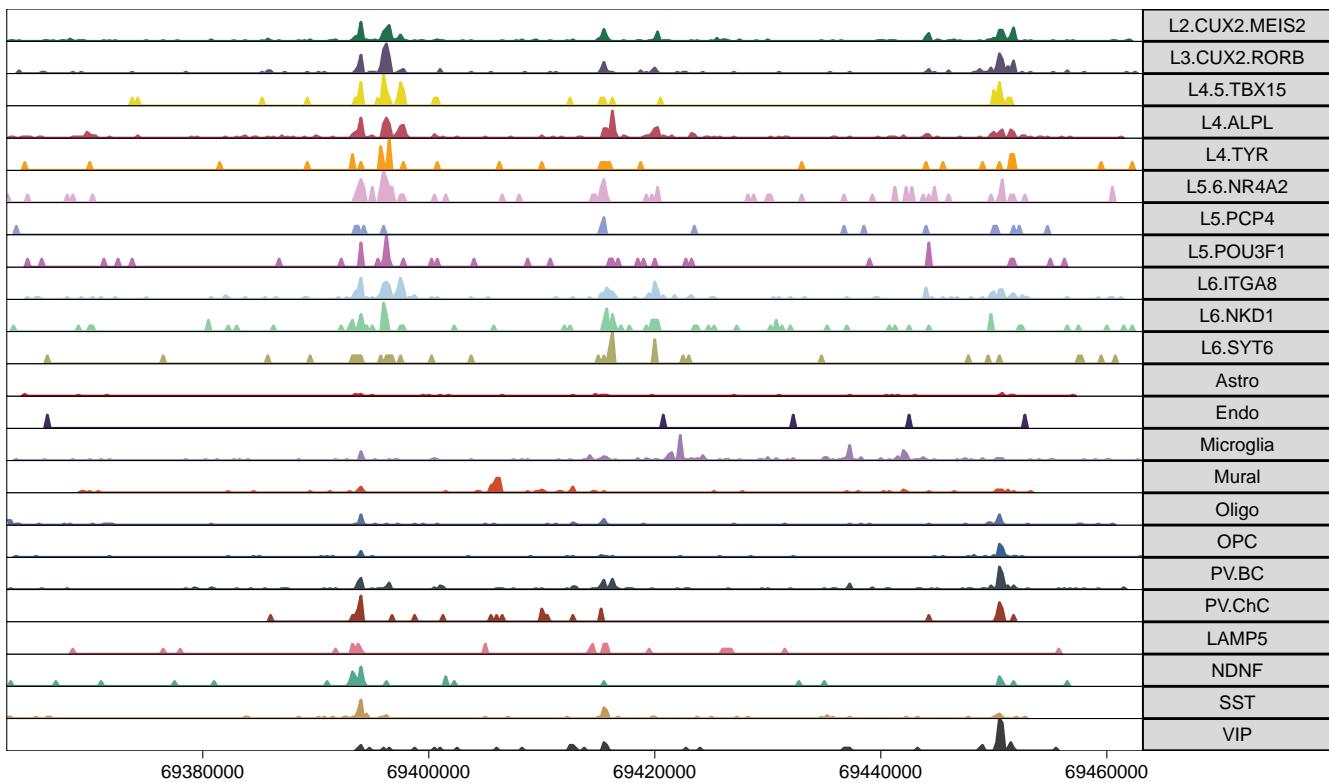
Coverage (Norm. ATAC Signal Range (0–0.61) by ReadsInTSS)



166950000 166975000 167000000 167025000



## chr11:69362653–69463154 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.95) by ReadsInTSS)

69380000 69400000 69420000 69440000 69460000

VIP

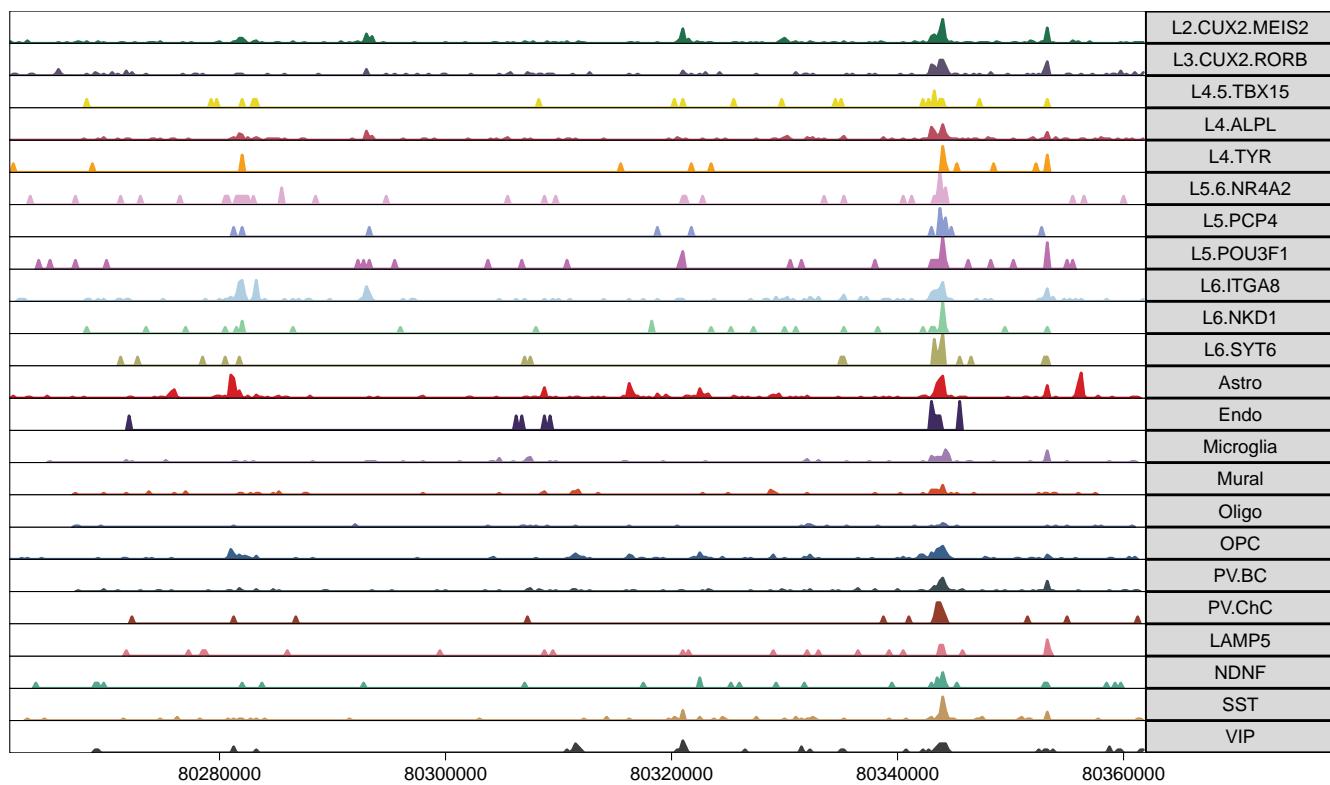
Peaks

LoopTrack

Genes

MYRFL

## chr8:80261436–80361937 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.87) by ReadsInTSS)

VIP

Peaks

LoopTrack

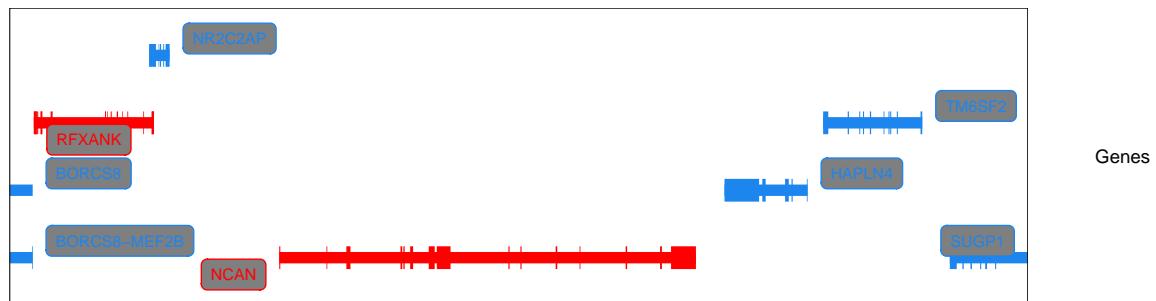
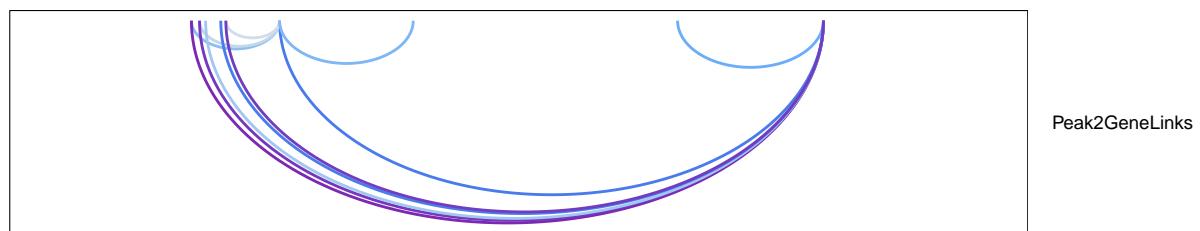
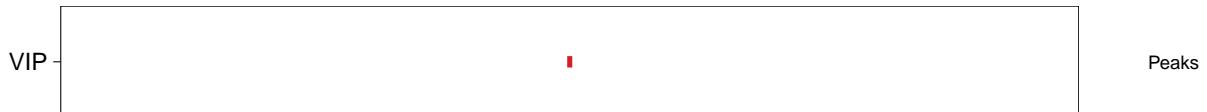
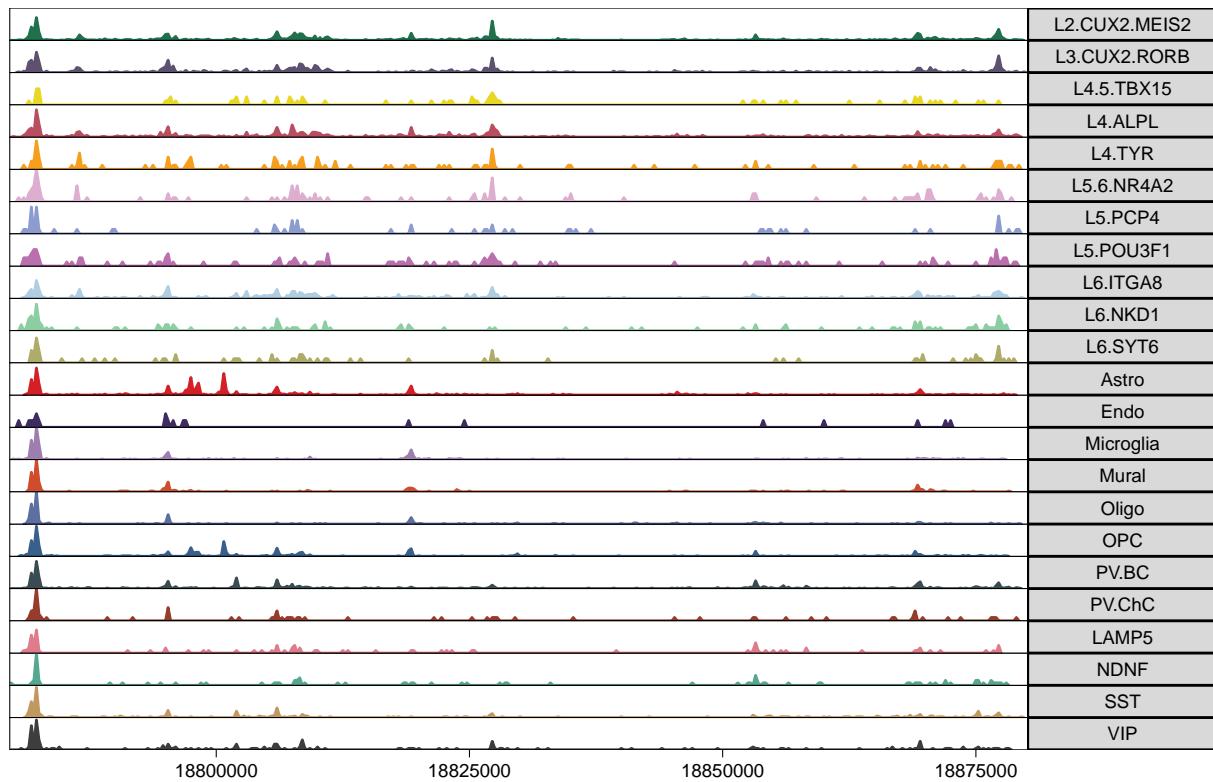
LOC101927040

LOC105379231

Genes

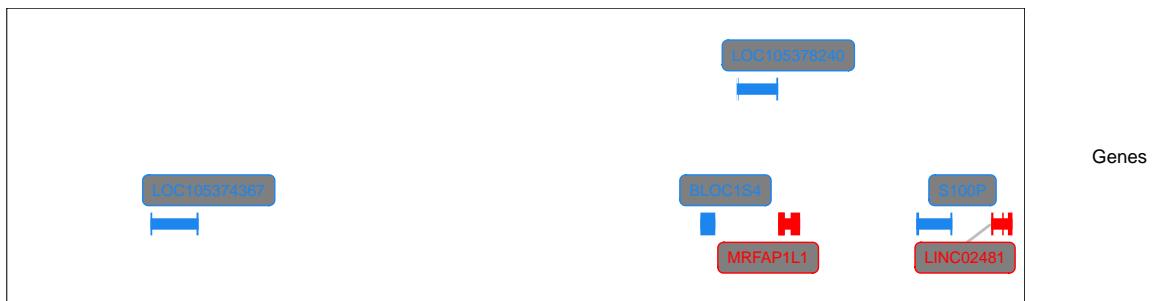
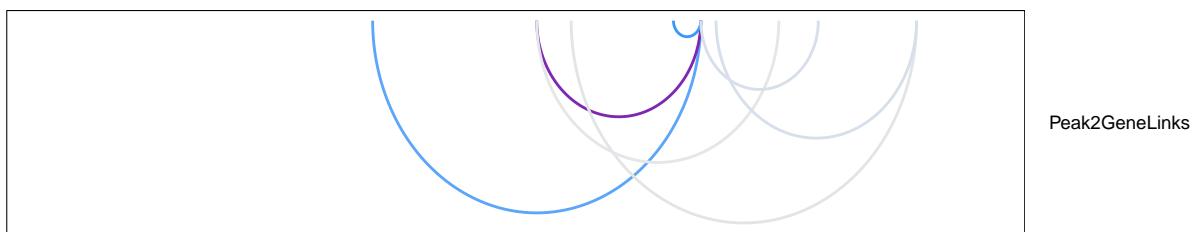
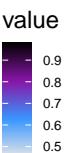
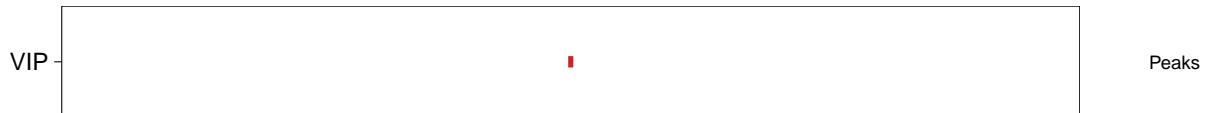
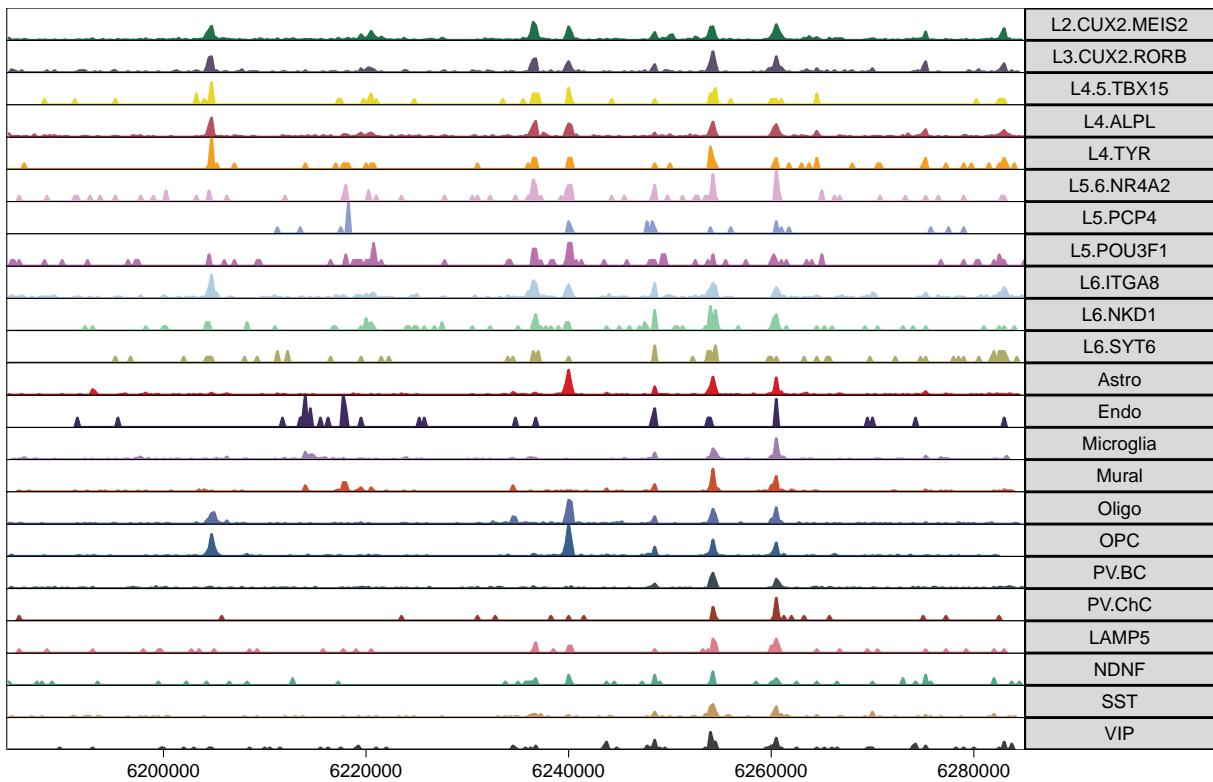
# chr19:18779615–18880116 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.85) by ReadsInTSS)

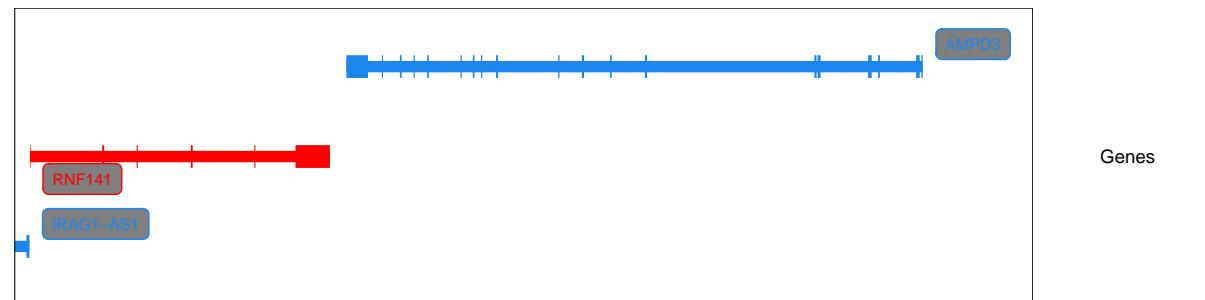
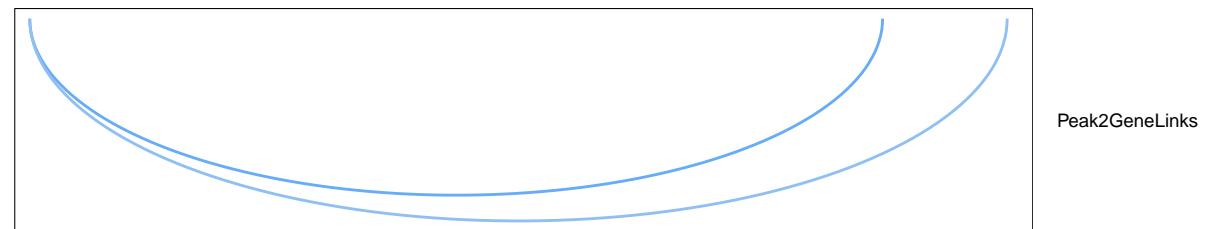
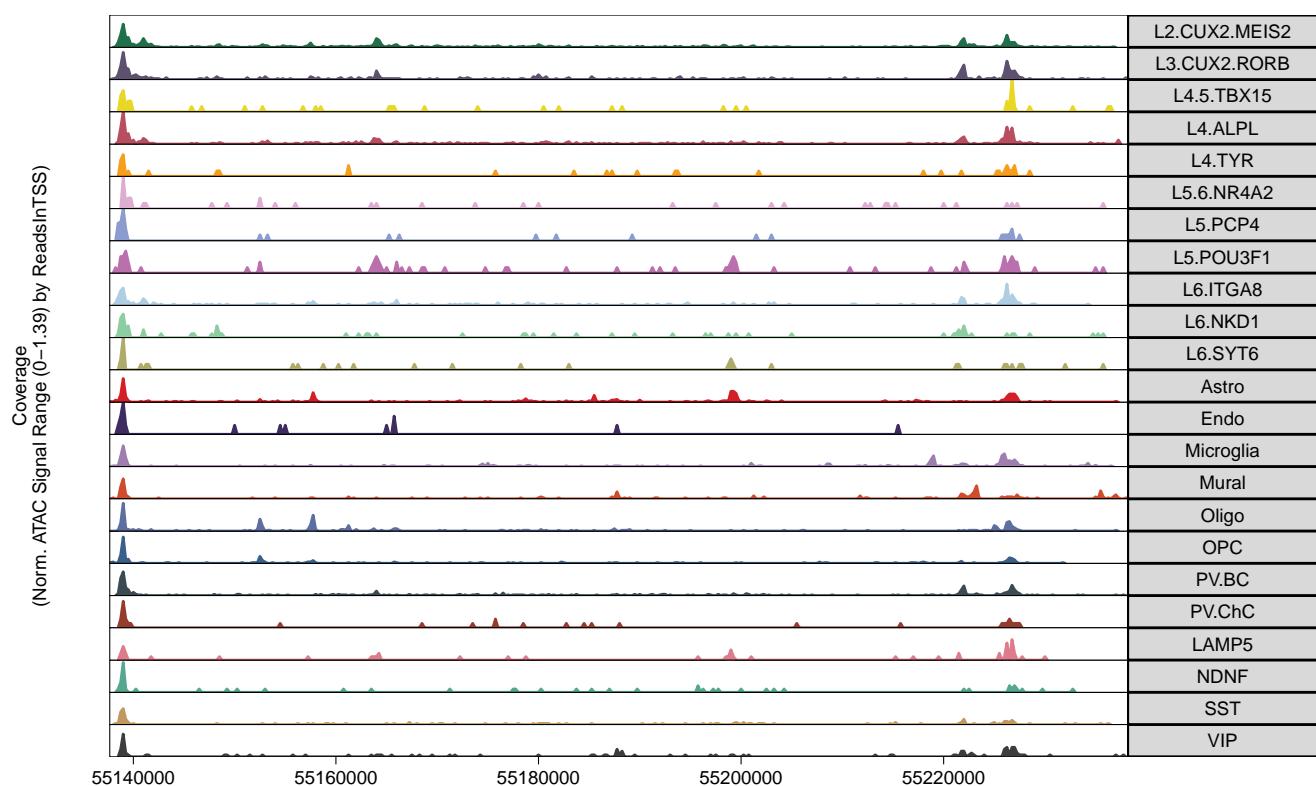


# chr5:6184527–6285028 Marker Peak Tracks for: VIP

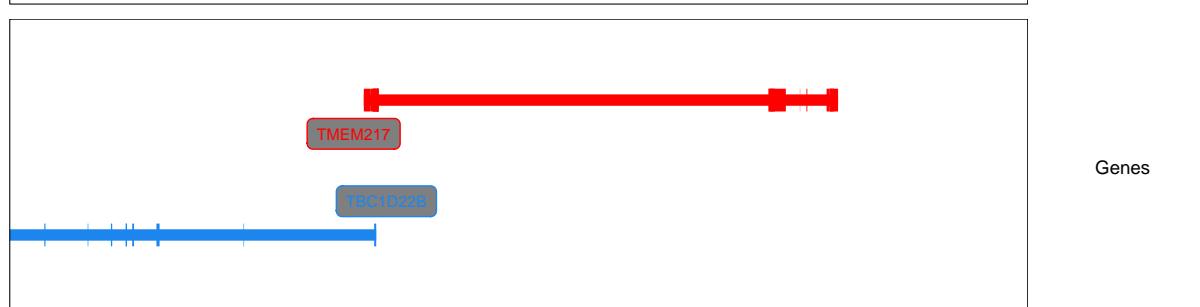
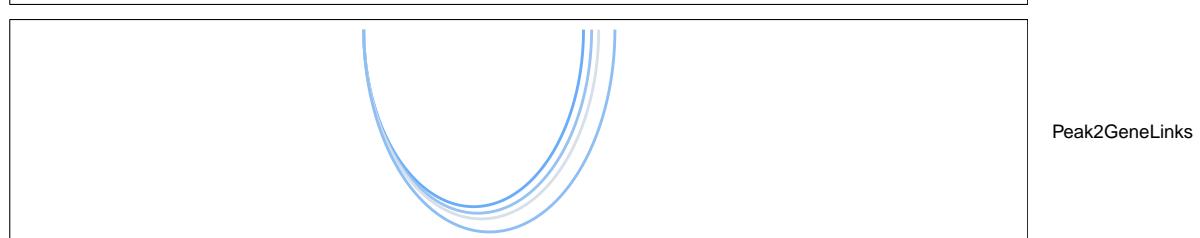
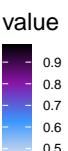
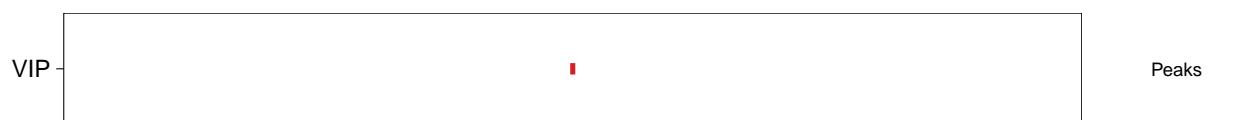
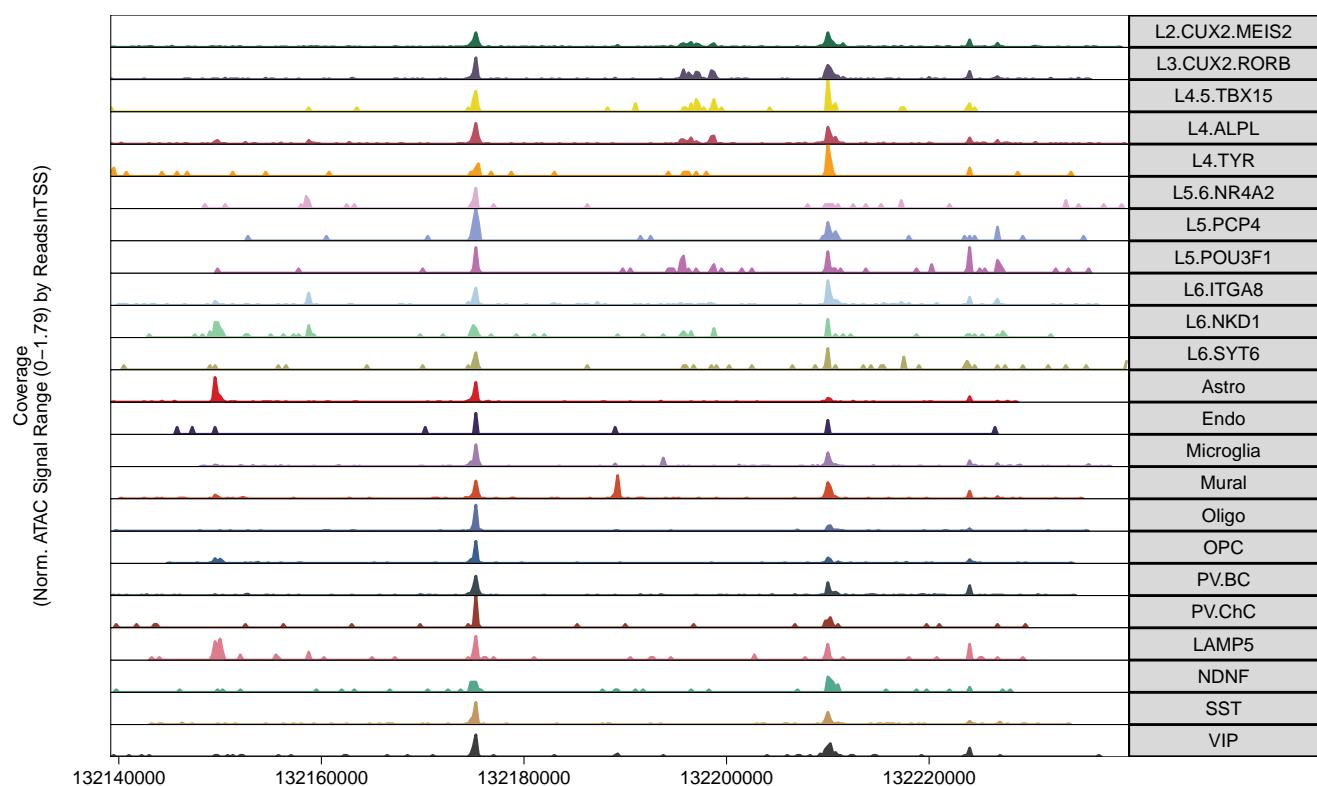
Coverage  
(Norm. ATAC Signal Range (0–1.35) by ReadsInTSS)



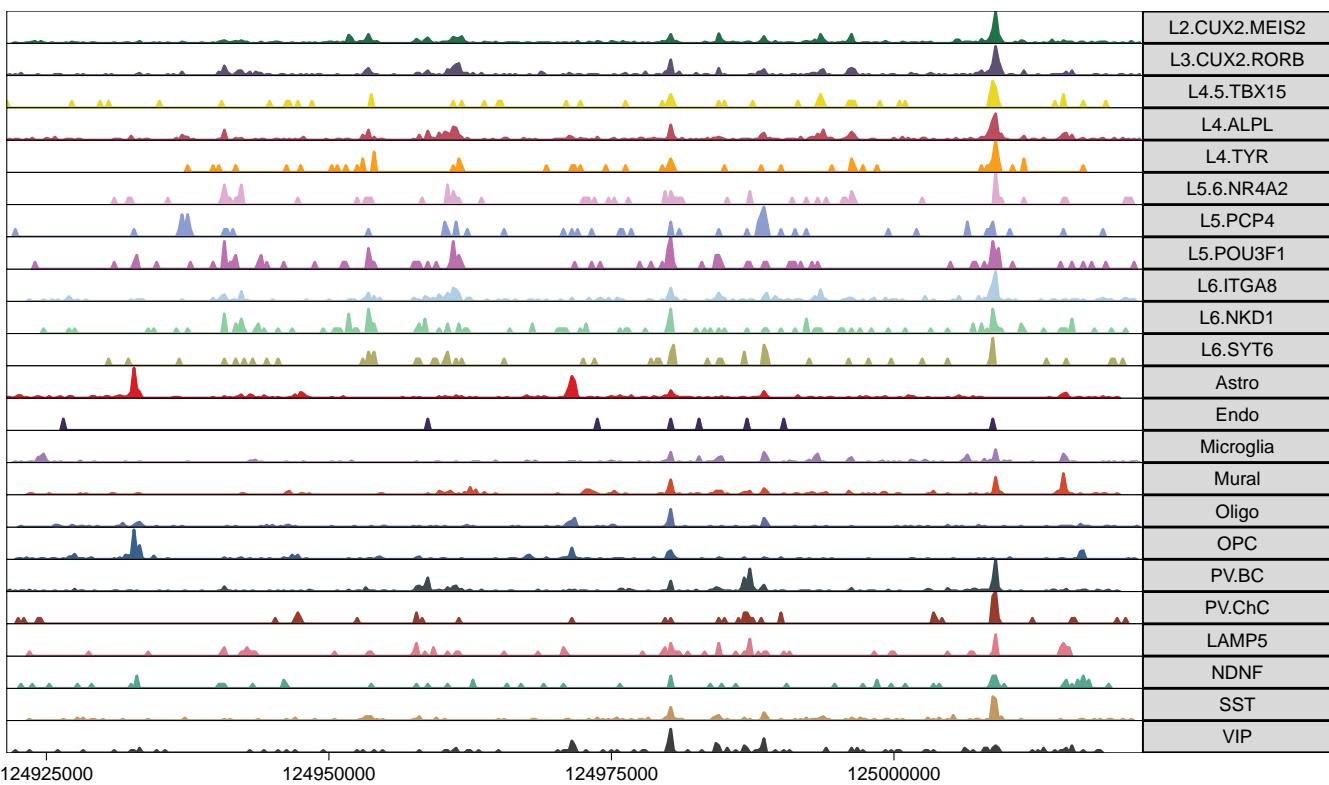
chr14:55137670–55238171 Marker Peak Tracks for: VIP



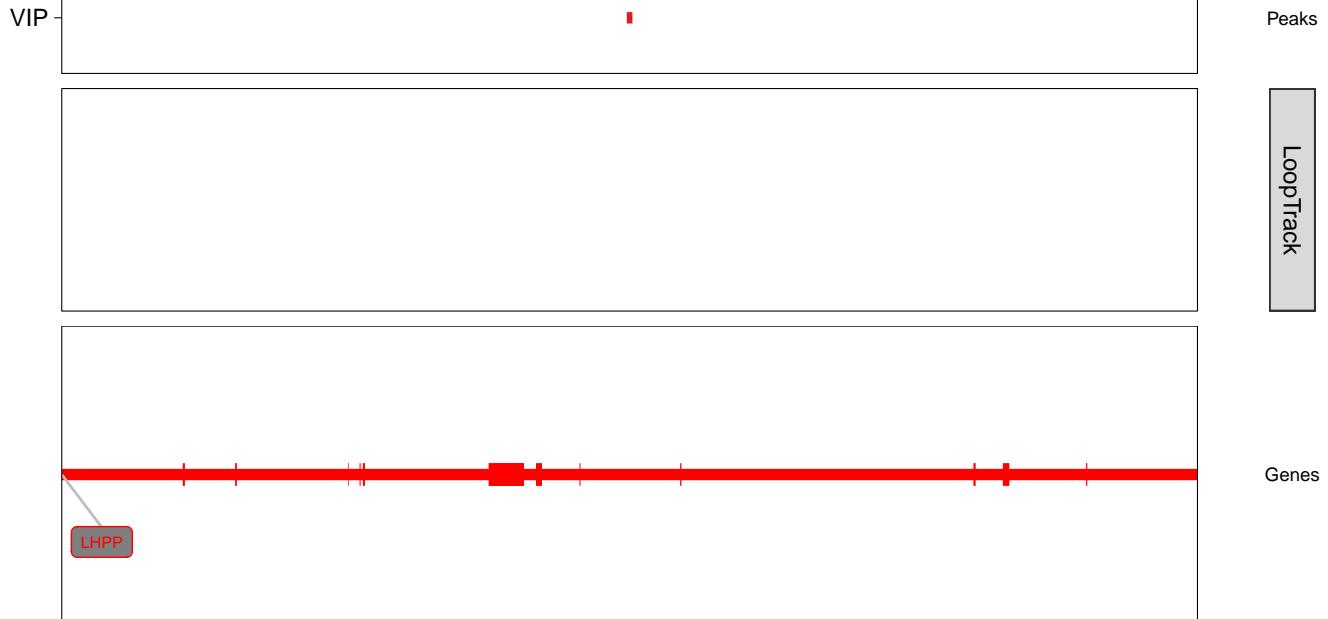
### chr4:132139203–132239704 Marker Peak Tracks for: VIP



## chr9:124921490–125021991 Marker Peak Tracks for: VIP

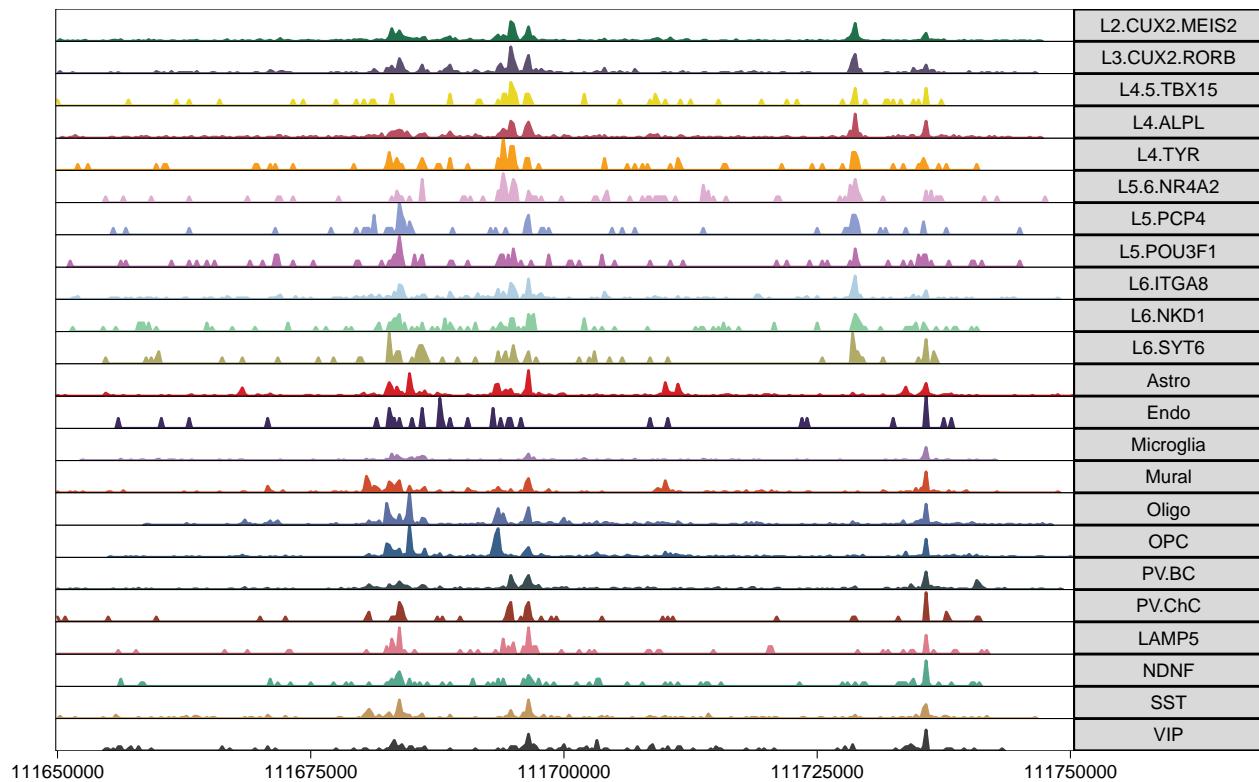
Coverage  
(Norm. ATAC Signal Range (0–1.1) by ReadsInTSS)

124925000 124950000 124975000 125000000



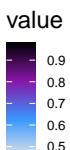
chr14:111649824–111750325 Marker Peak Tracks for: VIP

Coverage  
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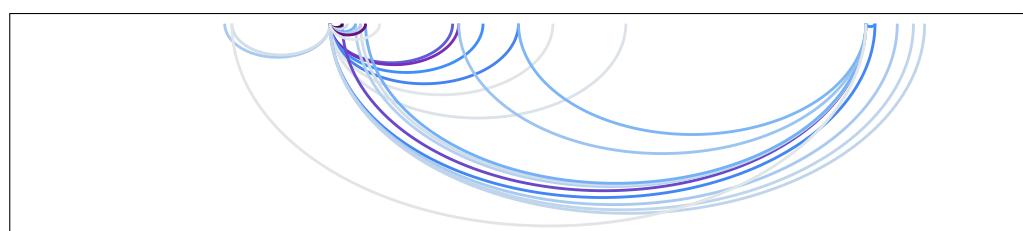


111650000      111675000      111700000      111725000      111750000

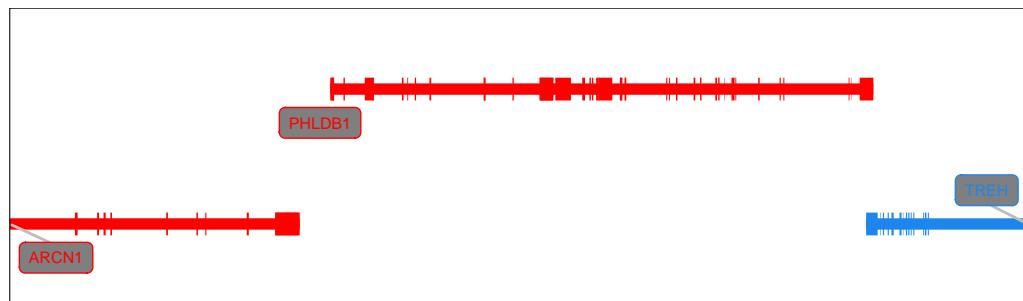
VIP - Peaks



Peak2GeneLinks

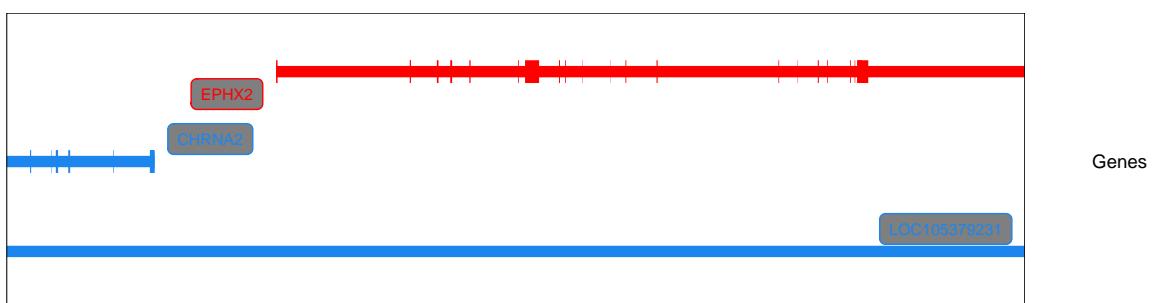
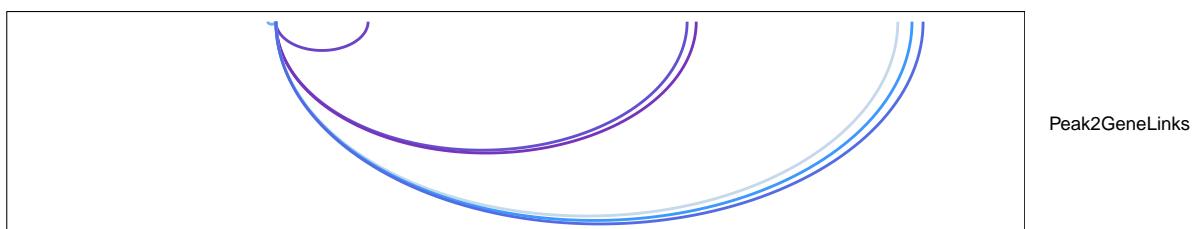
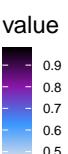
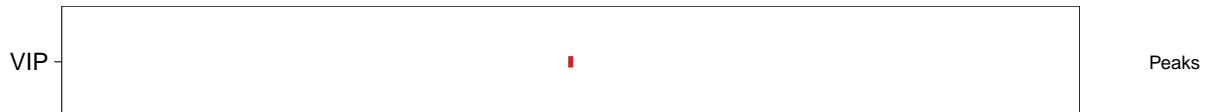
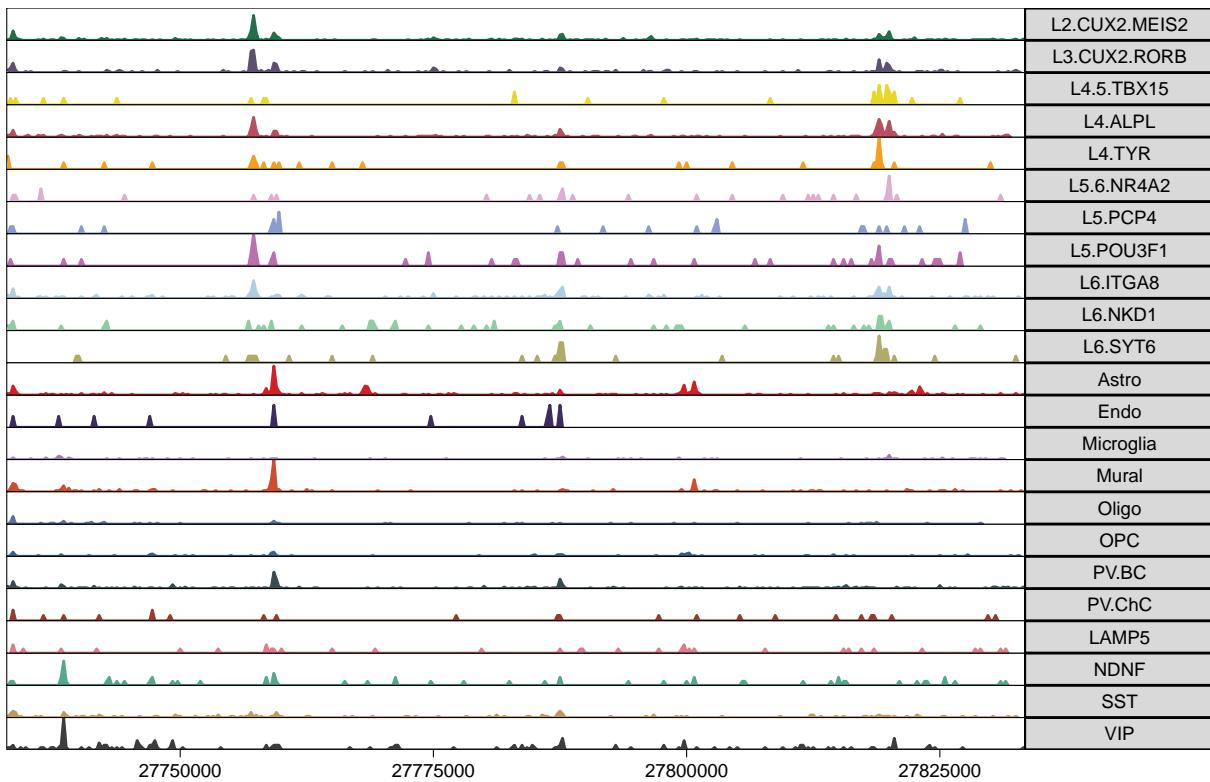


Genes



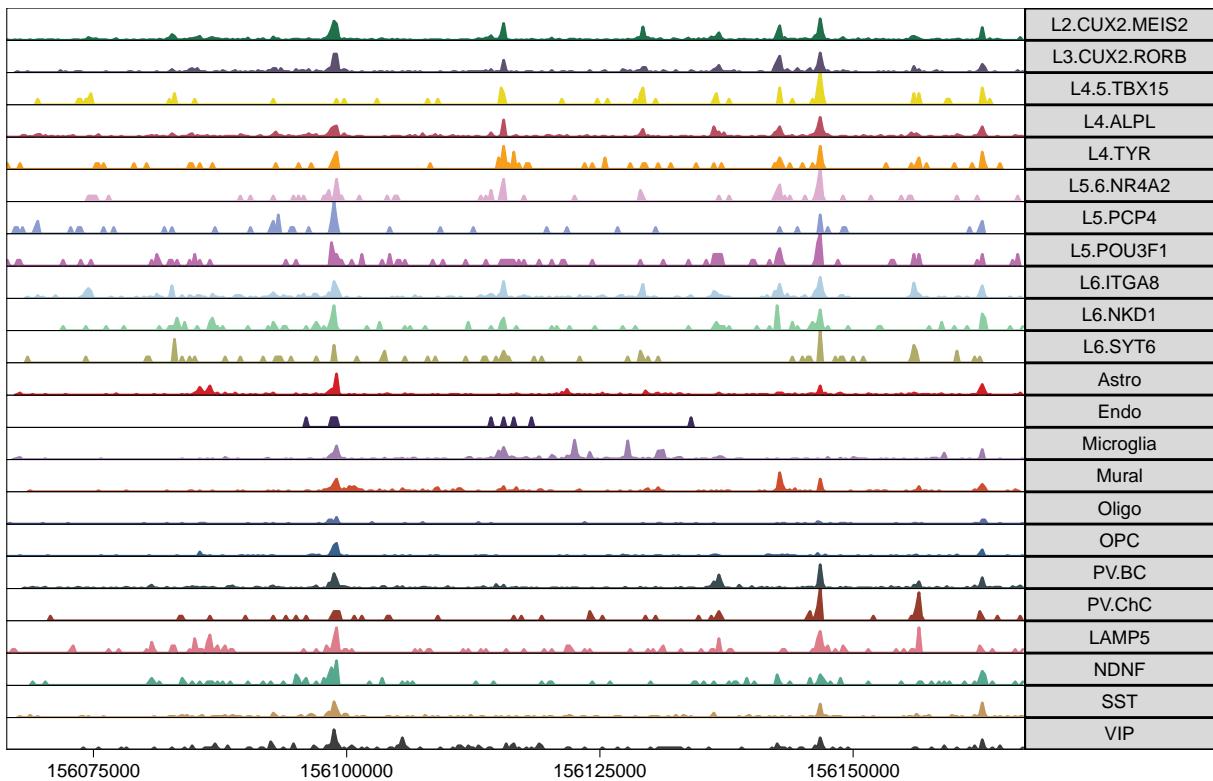
chr8:27732877–27833378 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.14) by ReadsInTSS)

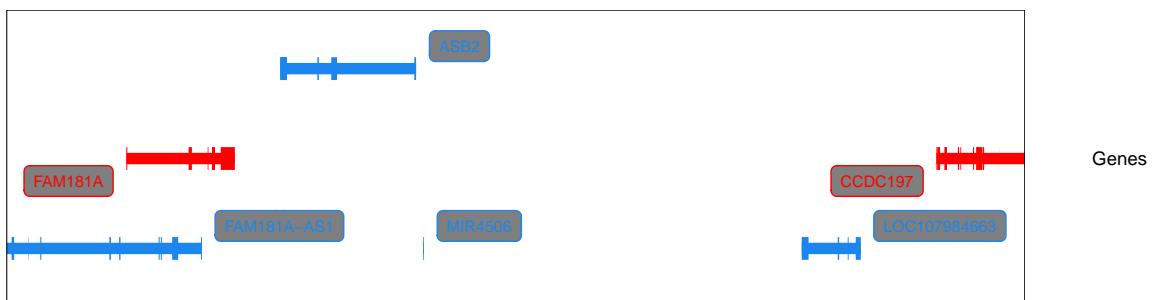
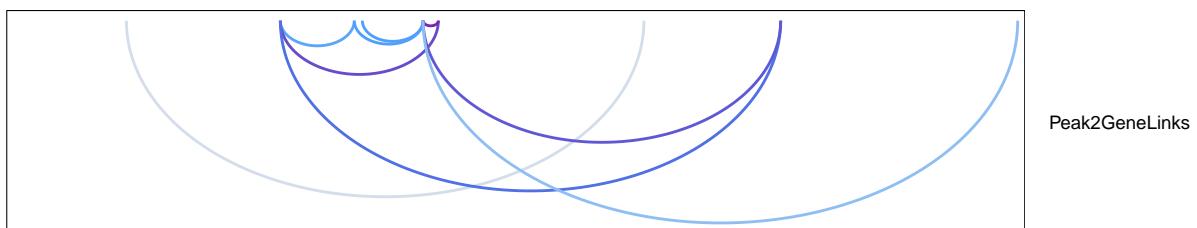
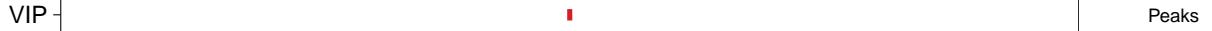


chr7:156066440–156166941 Marker Peak Tracks for: VIP

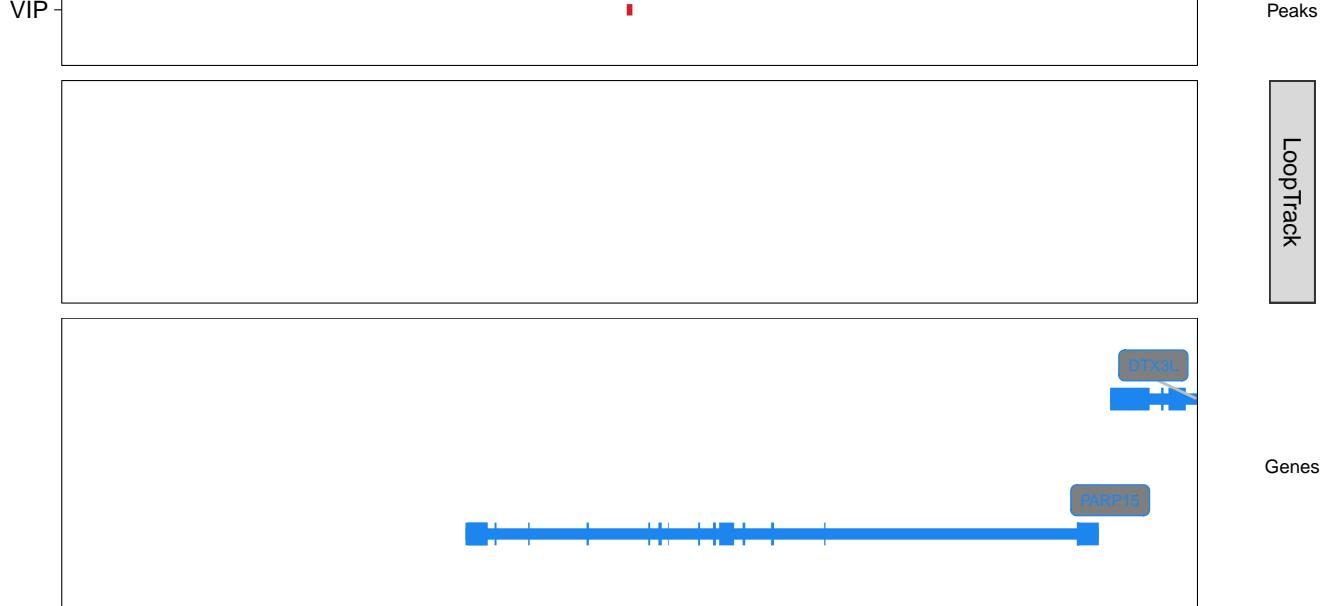
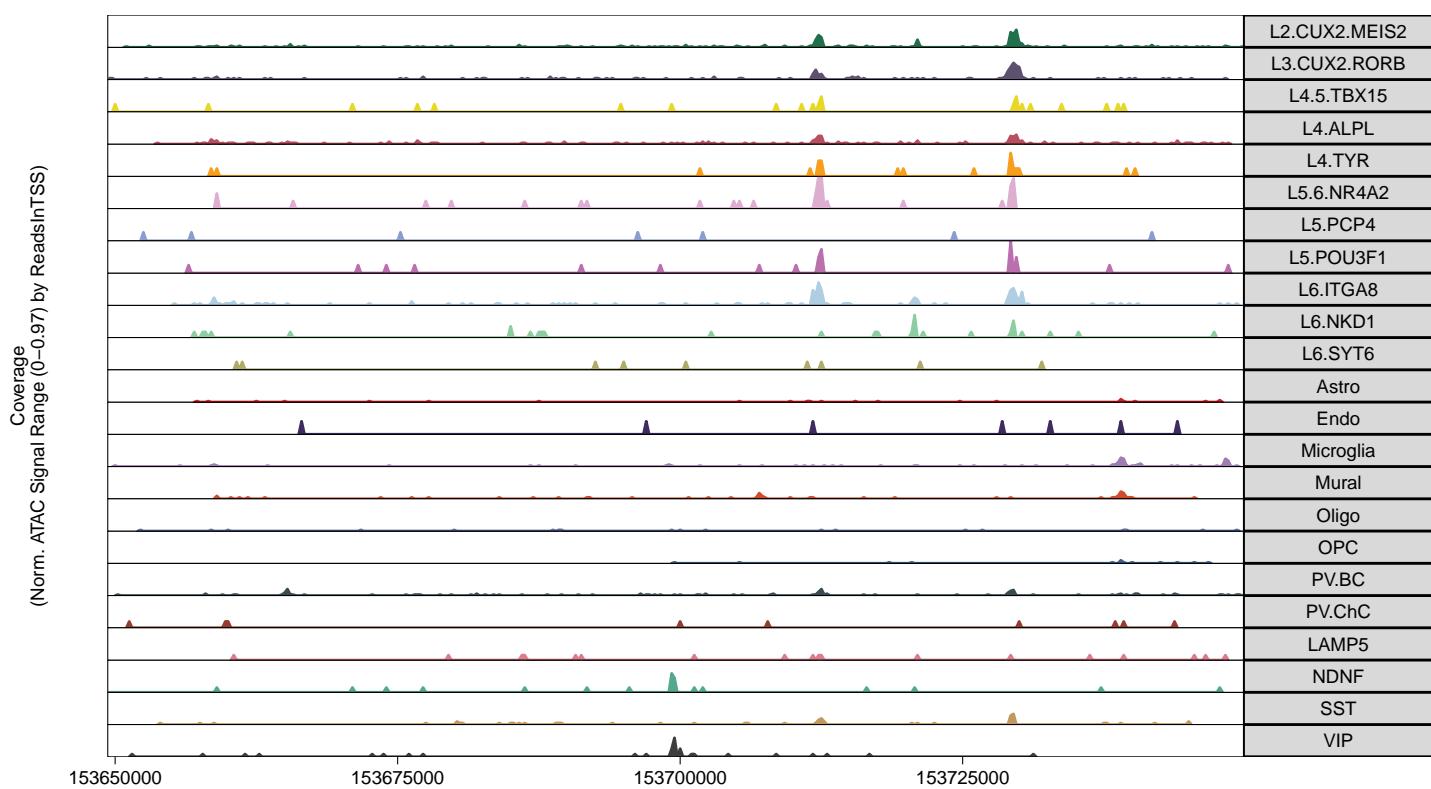
Coverage  
(Norm. ATAC Signal Range (0–1.31) by ReadsInTSS)



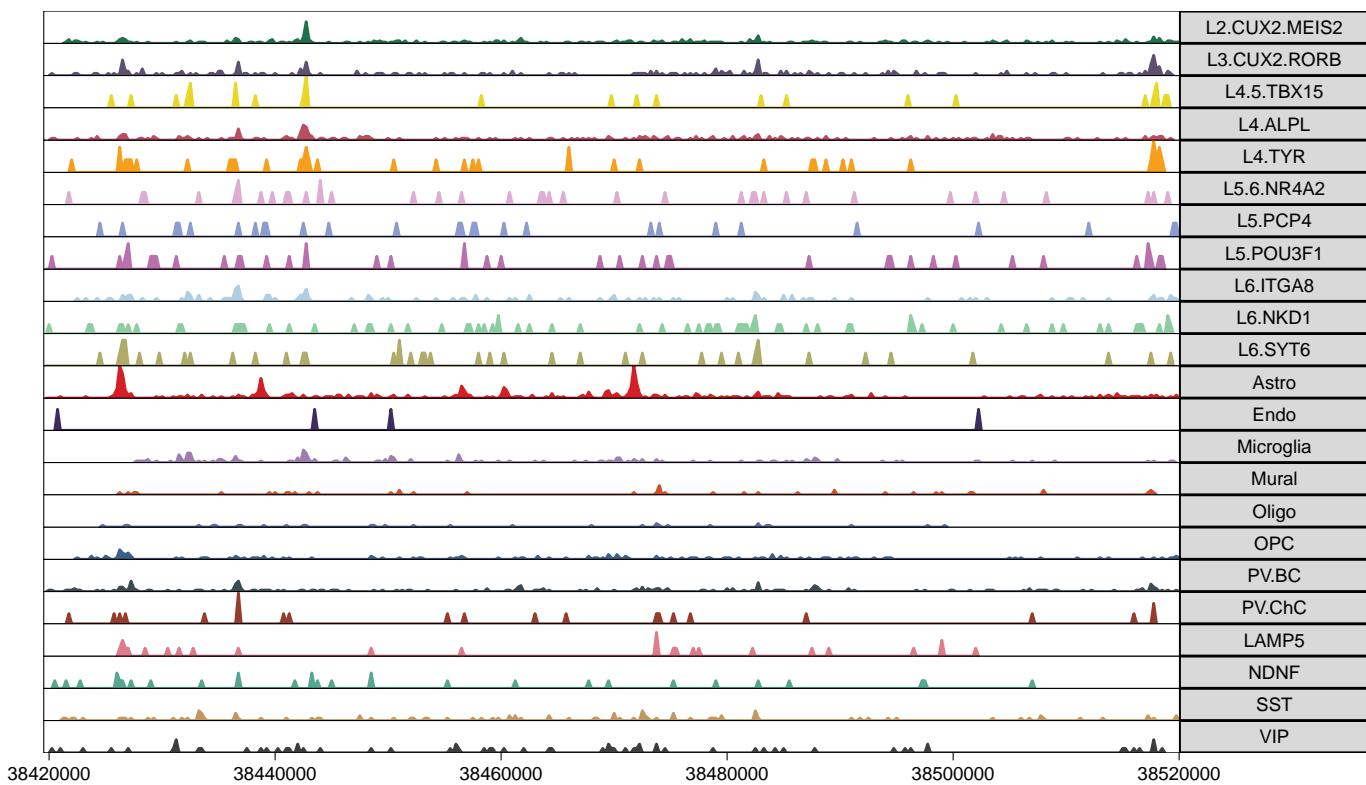
156075000      156100000      156125000      156150000



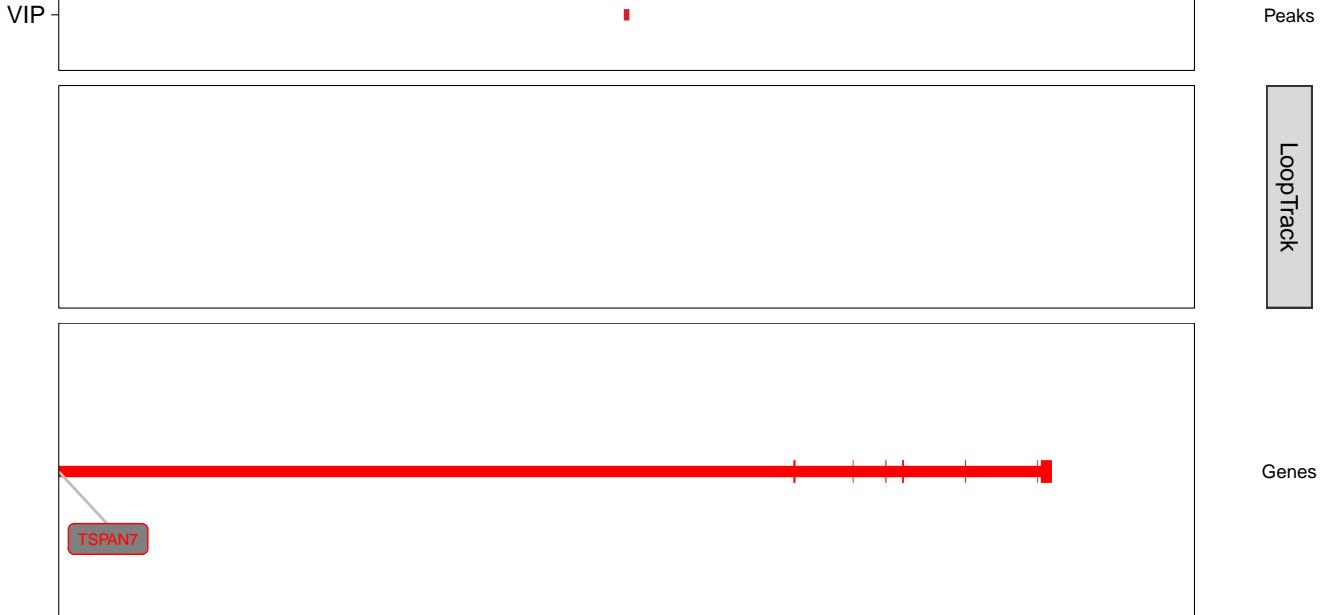
## chr2:153649346–153749847 Marker Peak Tracks for: VIP



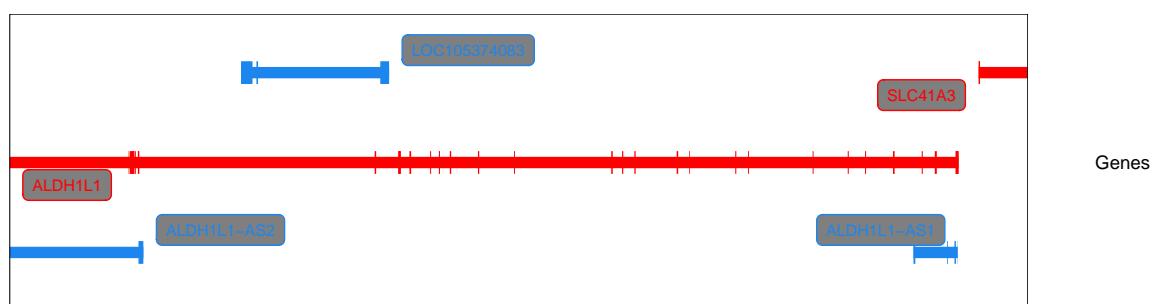
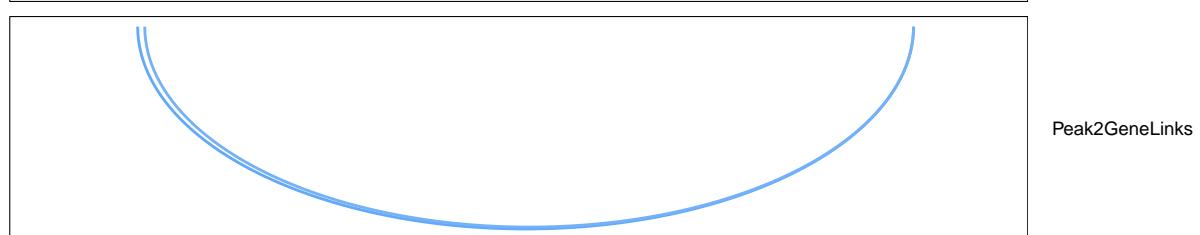
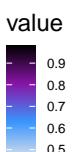
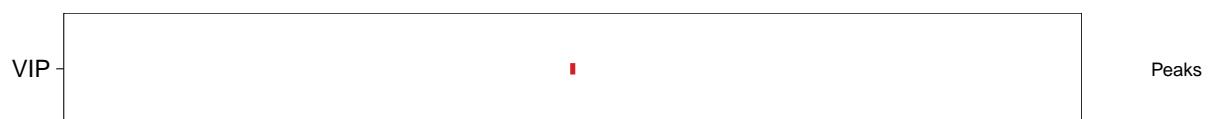
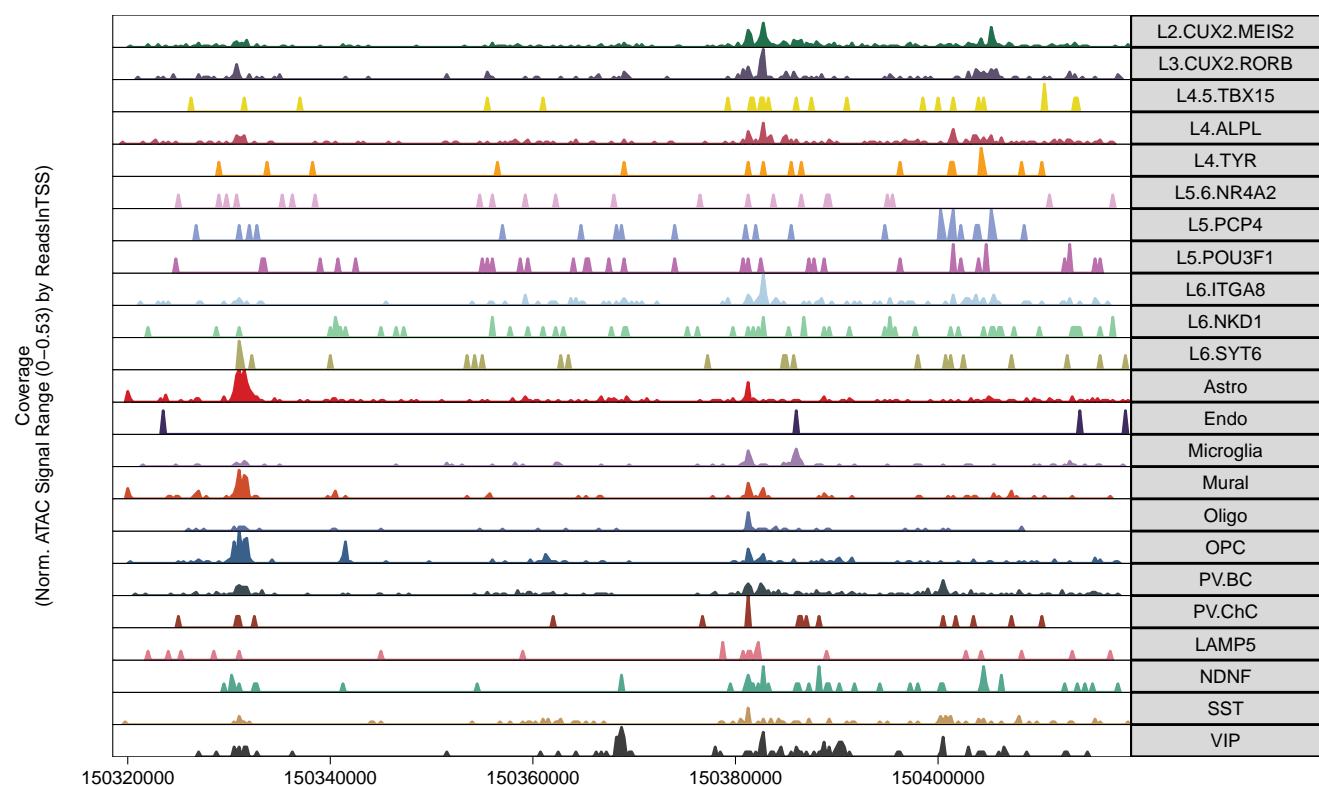
## chrX:38419526–38520027 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.6) by ReadlnTSS)

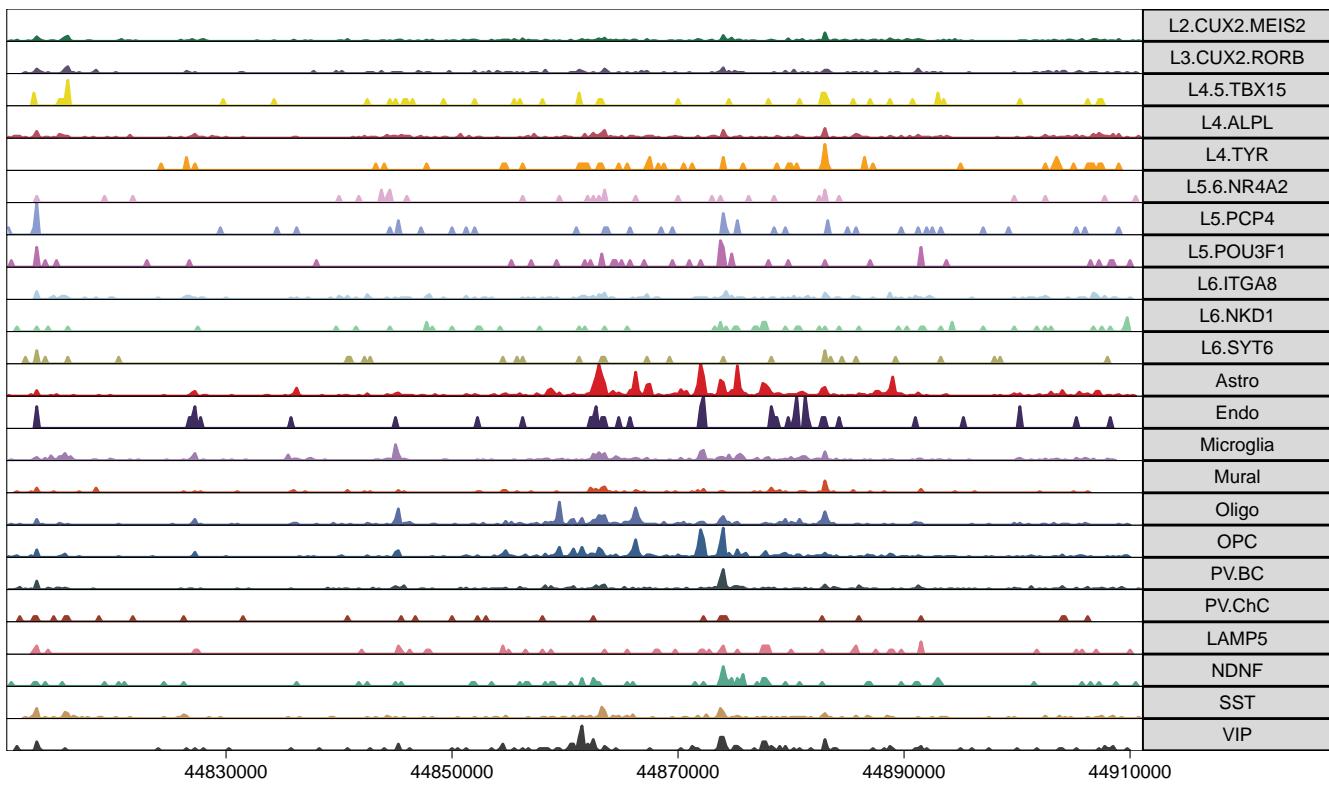
38420000 38440000 38460000 38480000 38500000 38520000



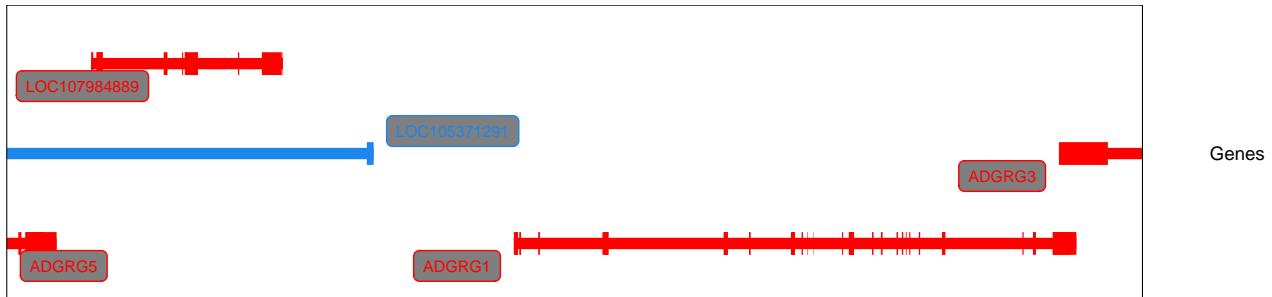
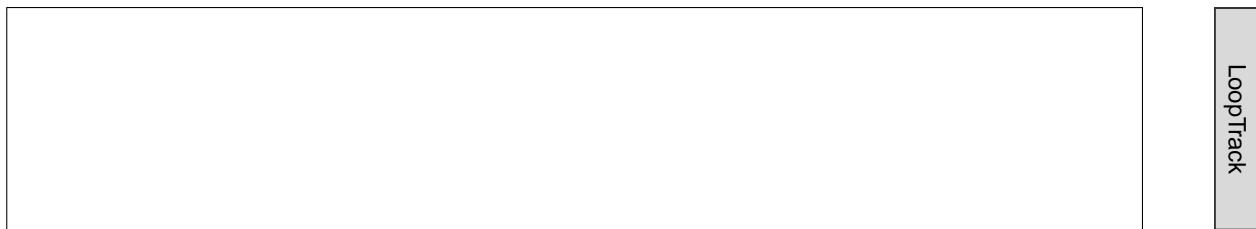
chr2:150318520–150419021 Marker Peak Tracks for: VIP



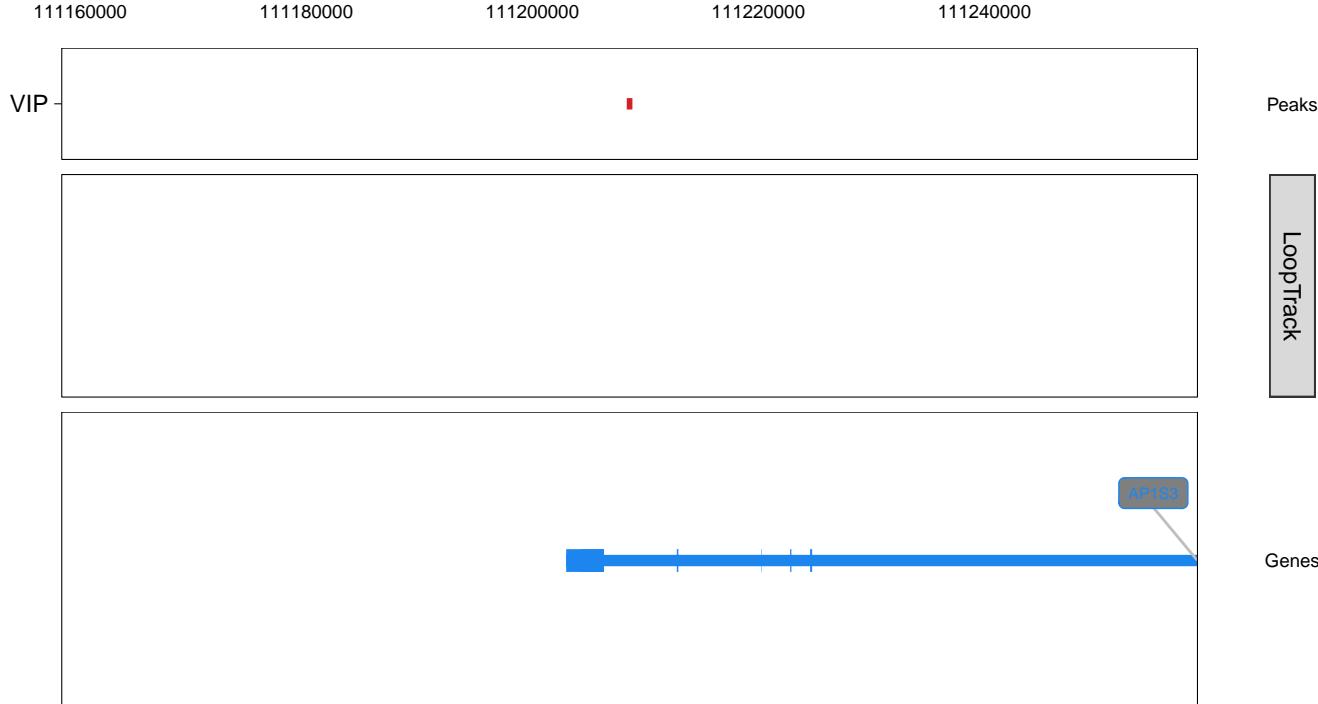
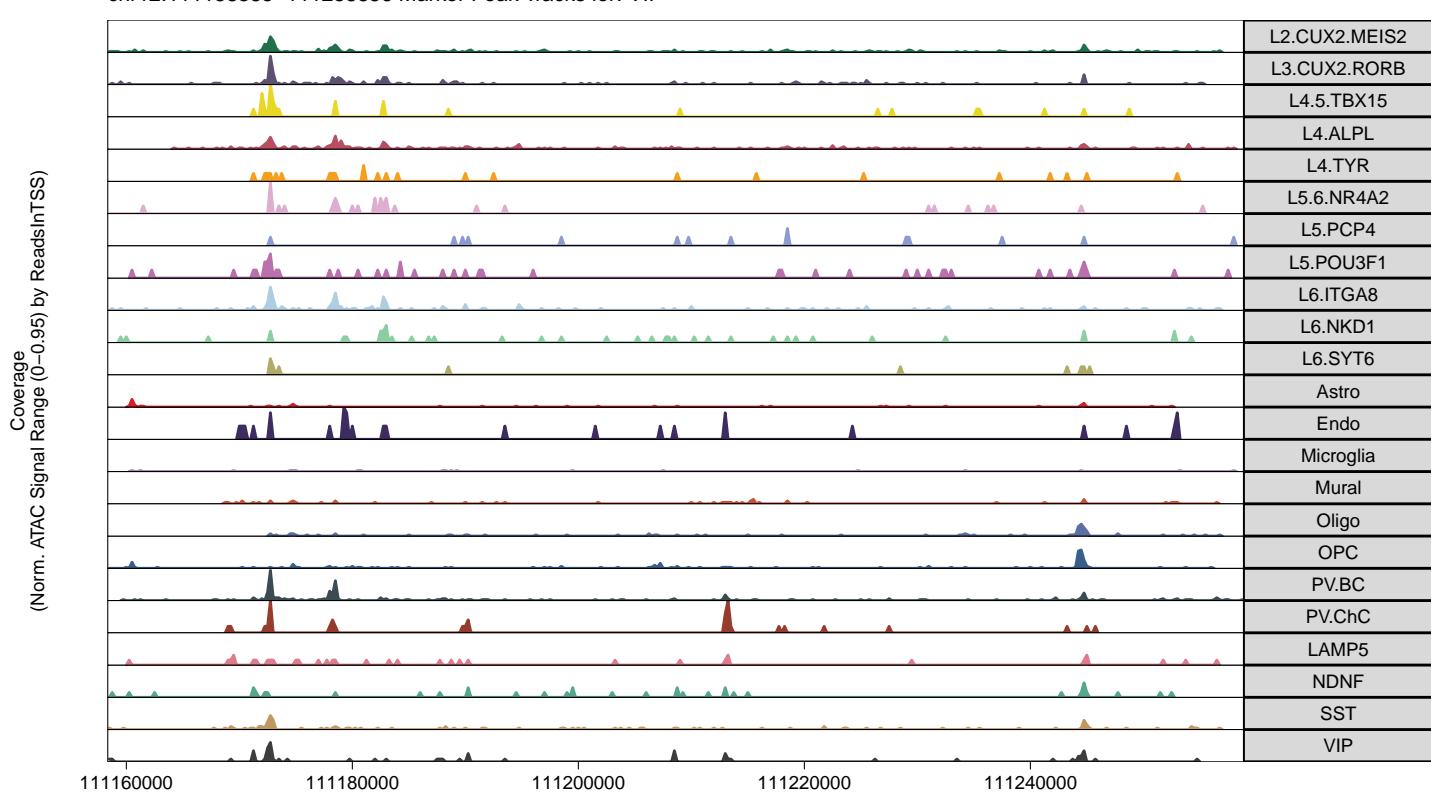
## chr20:44810595–44911096 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.16) by ReadsInTSS)

44830000 44850000 44870000 44890000 44910000

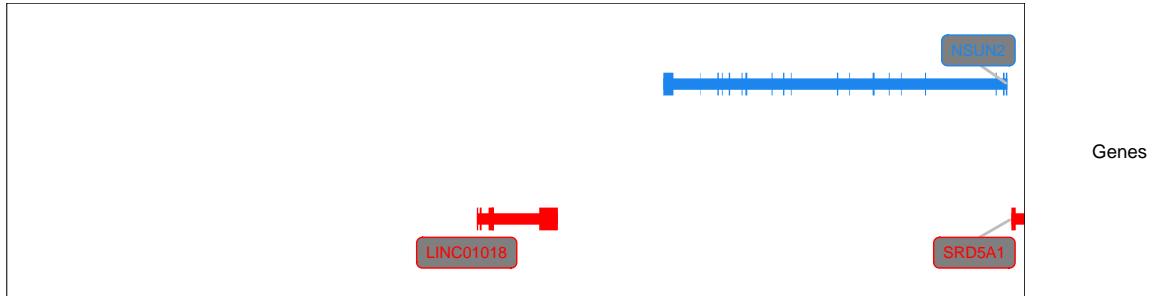
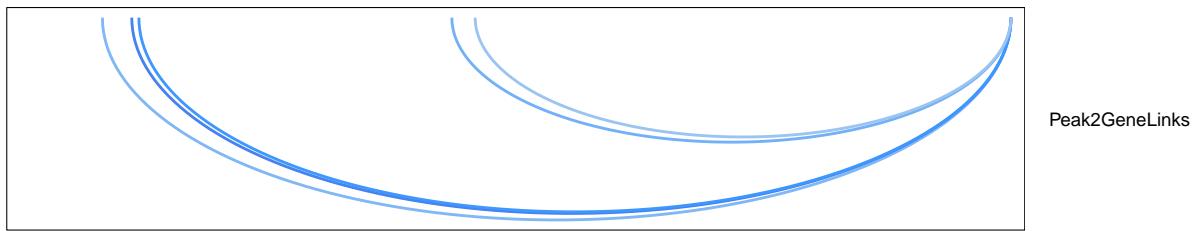
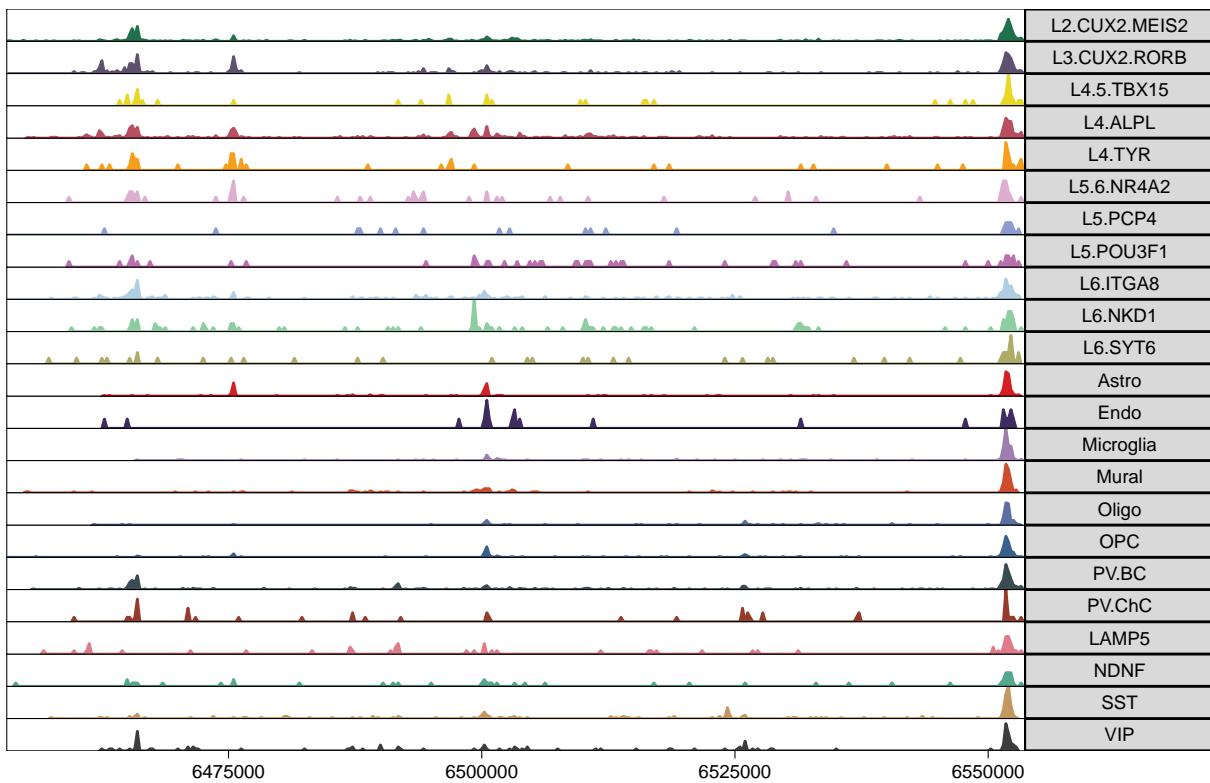


## chr12:111158355–111258856 Marker Peak Tracks for: VIP



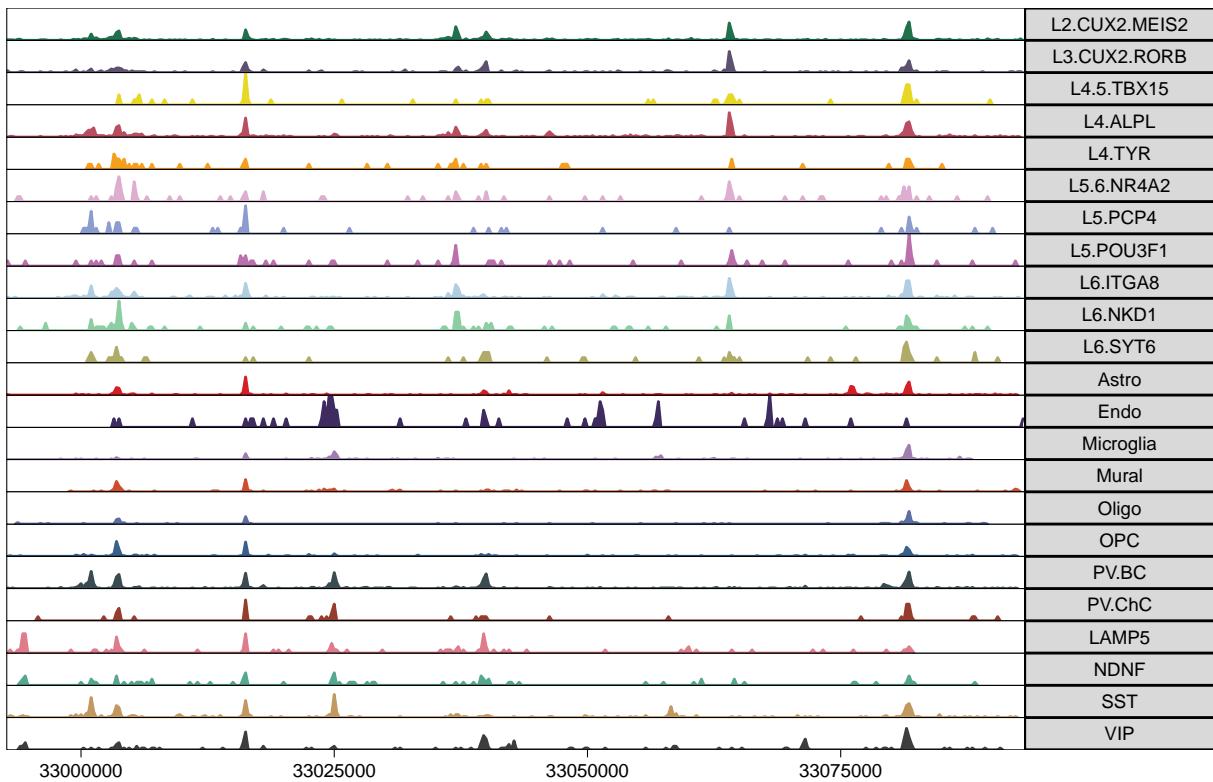
chr6:6453106–6553607 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.35) by ReadsInTSS)

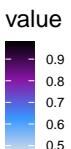
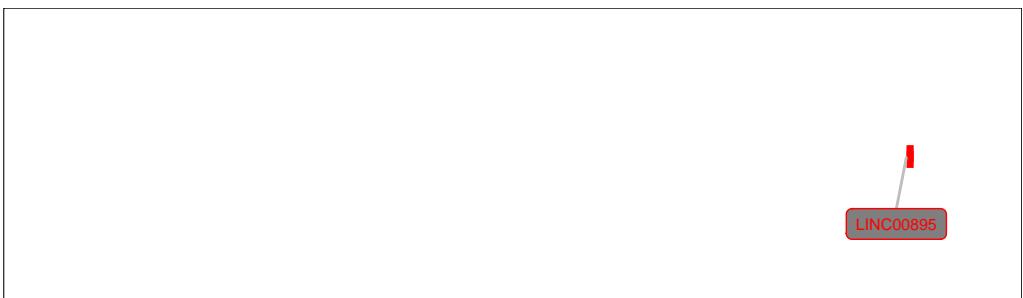
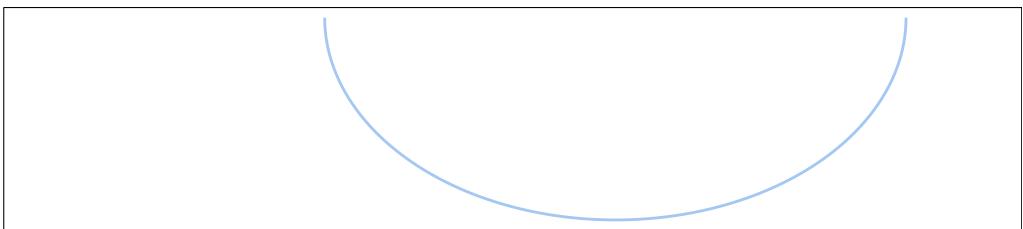


chr10:32992667–33093168 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.47) by ReadInTSS)

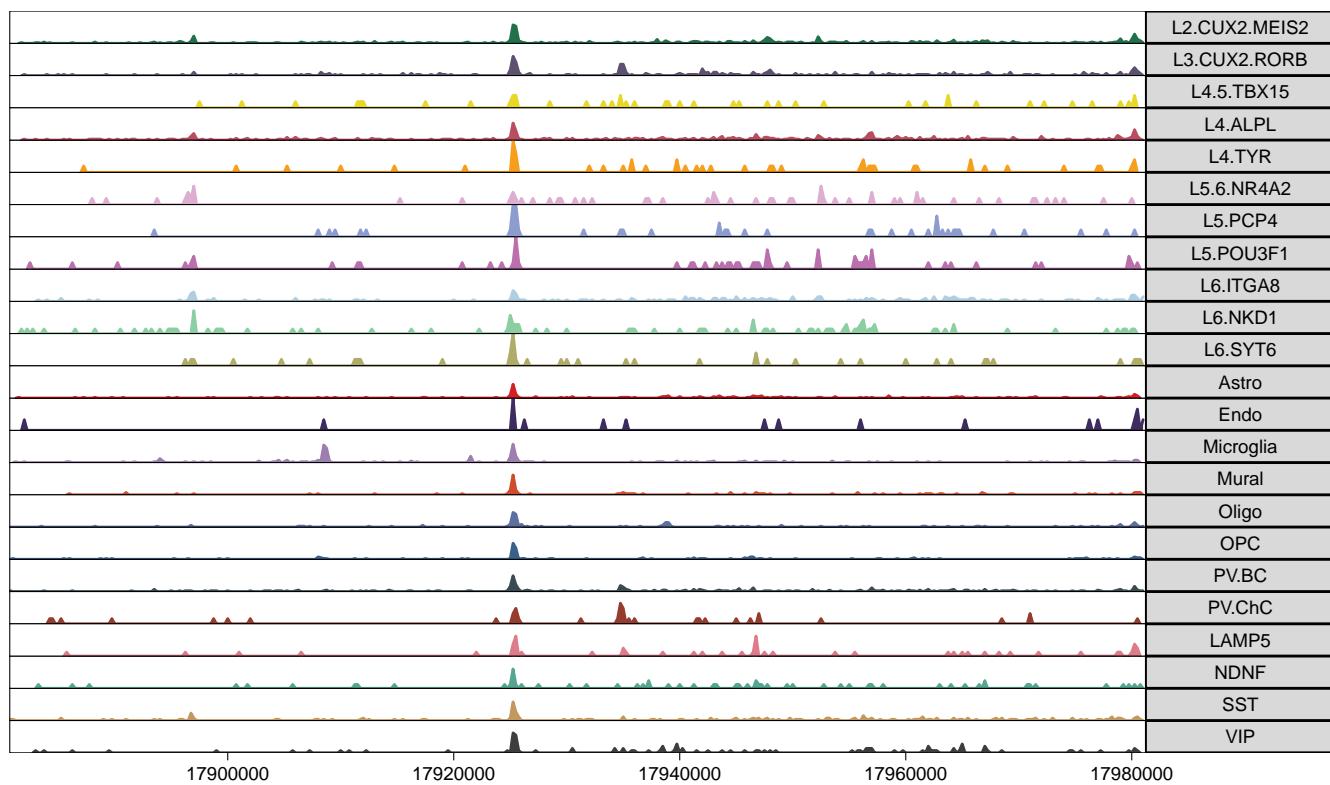


33000000      33025000      33050000      33075000



## chr16:17880711-17981212 Marker Peak Tracks for: VIP

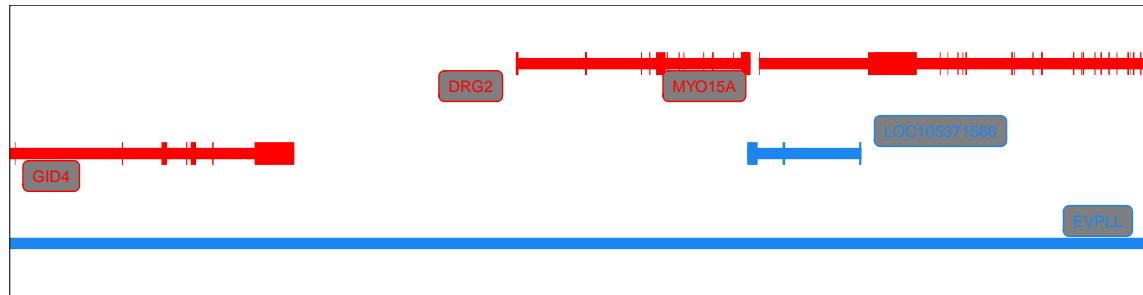
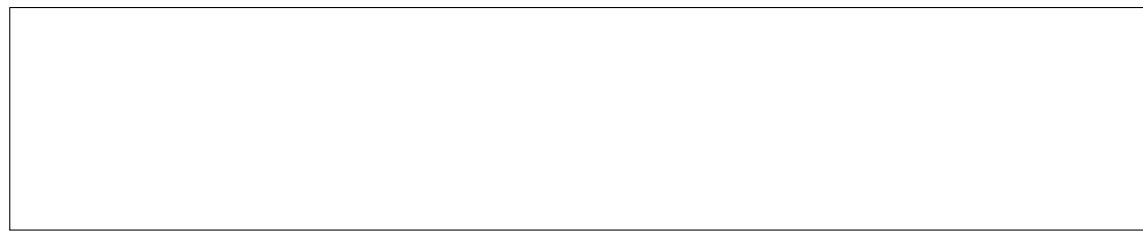
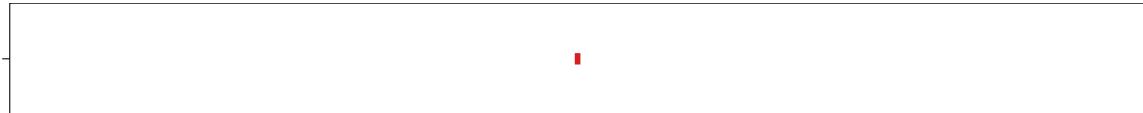
Coverage (Norm. ATAC Signal Range (0-1.19) by ReadsInTSS)



VIP

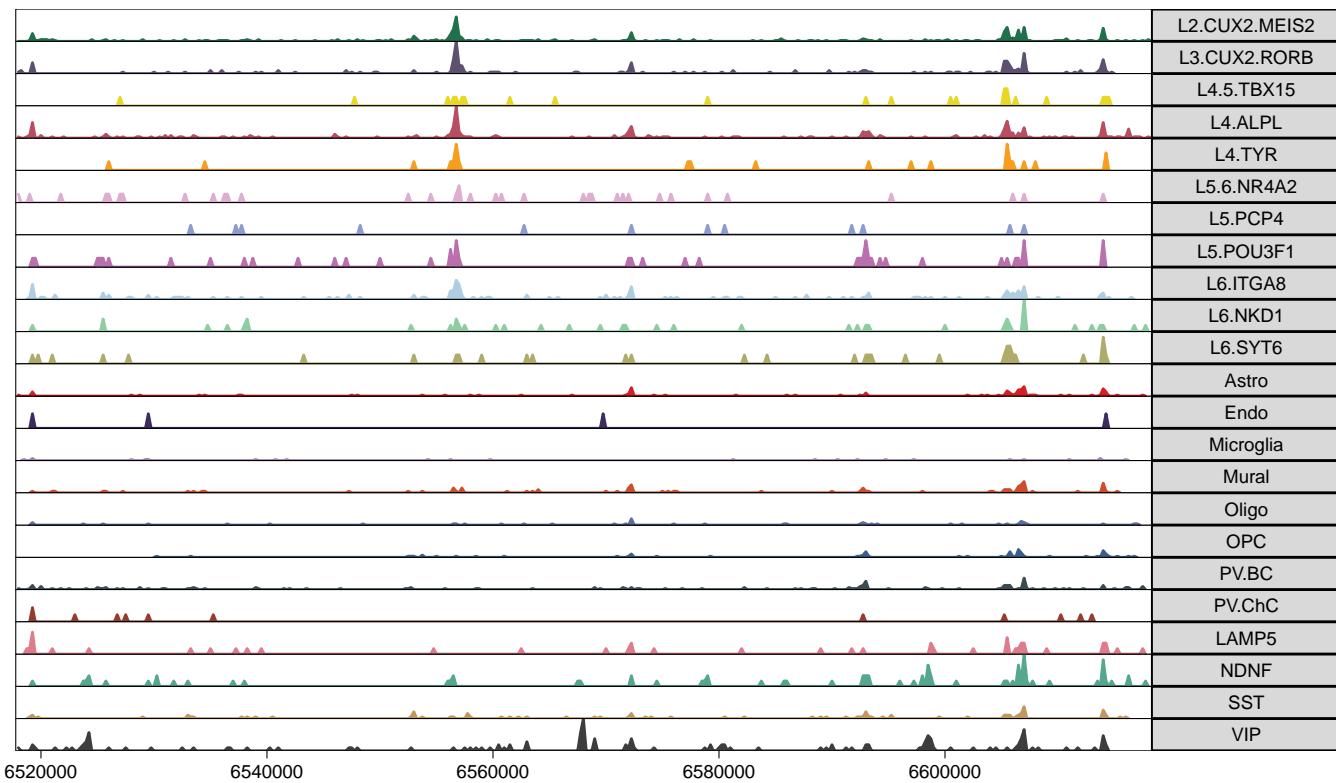
Peaks

LoopTrack



Genes

## chr13:6517769–6618270 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.87) by ReadInTSS)

VIP

Peaks

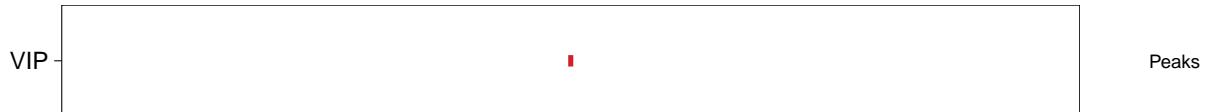
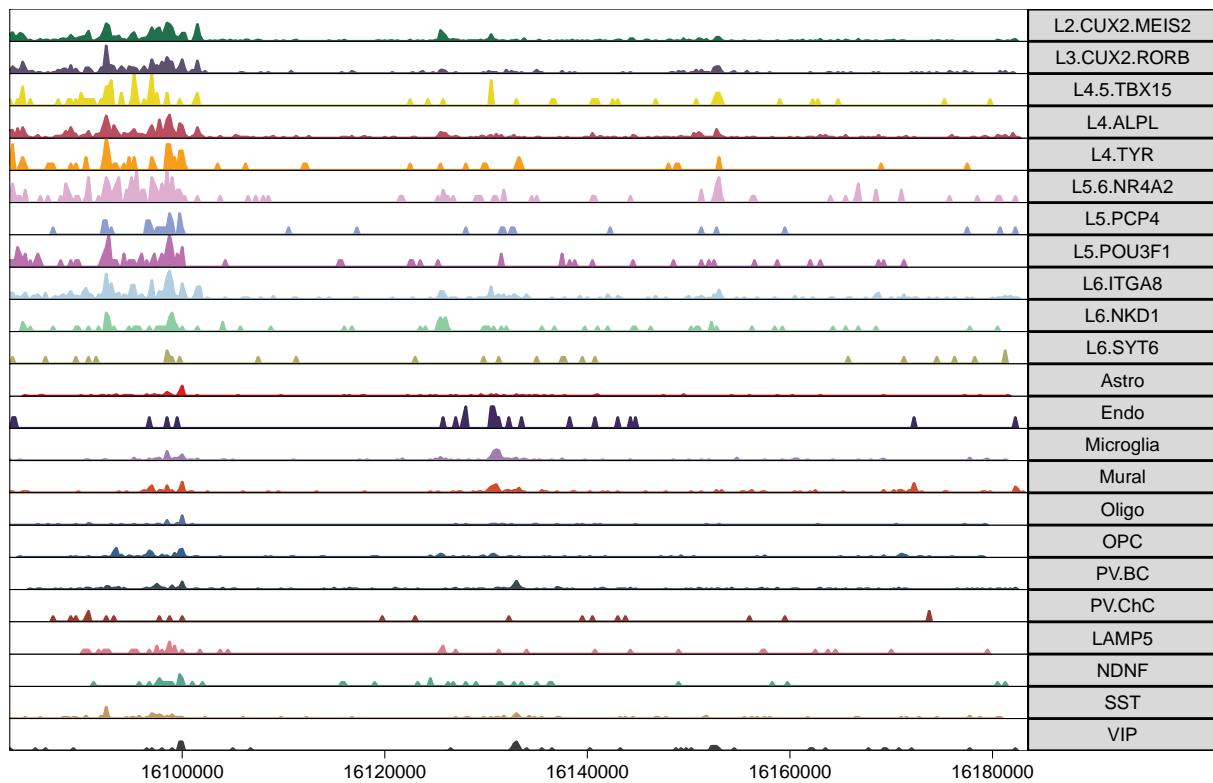
LoopTrack

Genes

TMEM182

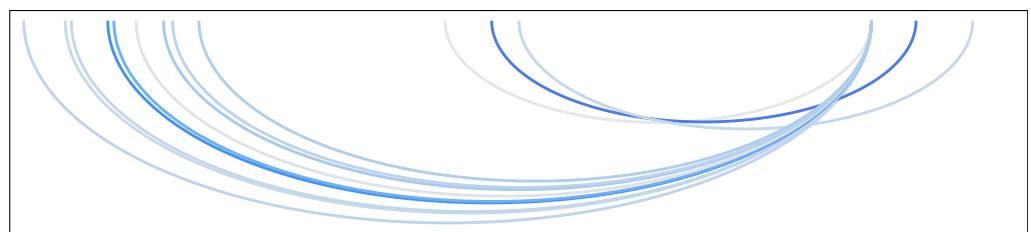
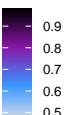
# chr14:16082973–16183474 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.17) by ReadsInTSS)

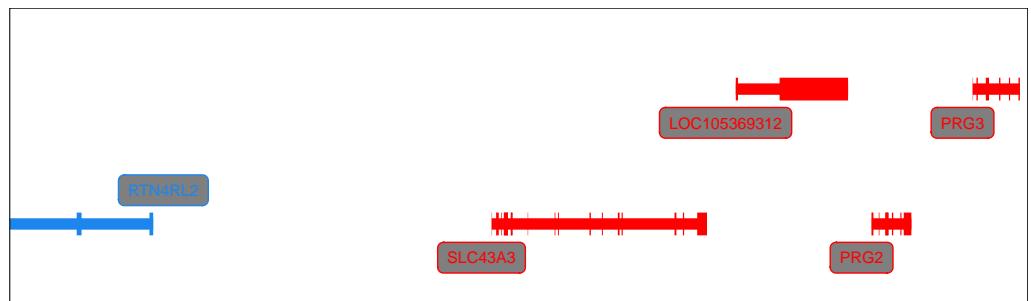


Peaks

value



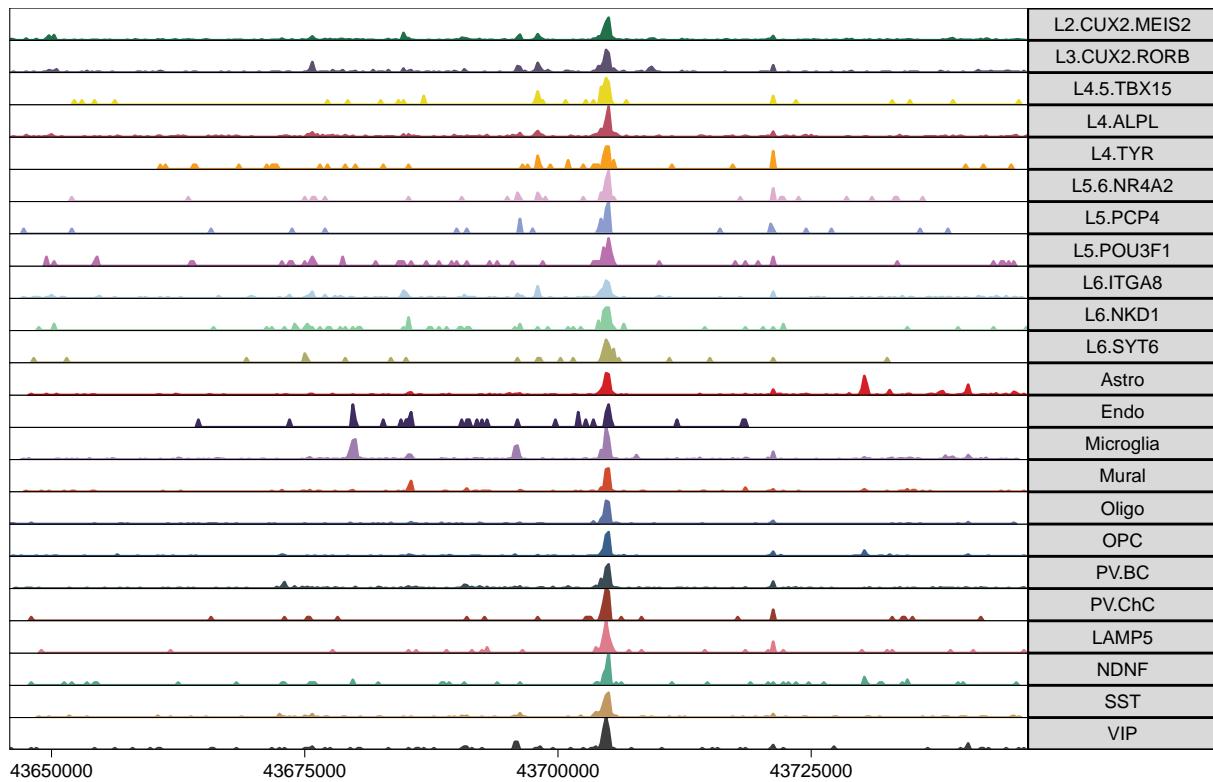
Peak2GeneLinks



Genes

# chr13:43645876–43746377 Marker Peak Tracks for: VIP

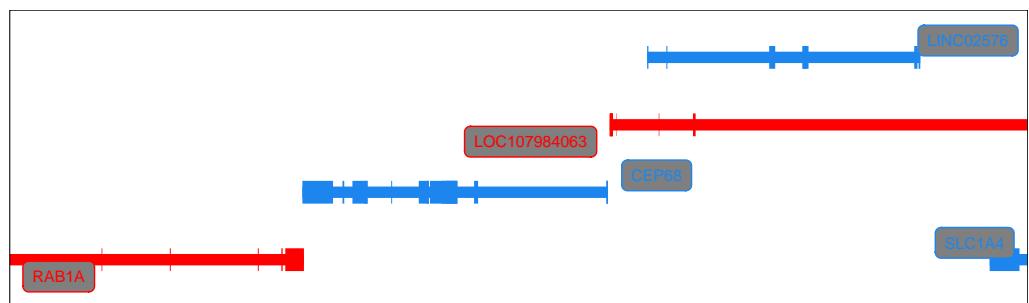
Coverage  
(Norm. ATAC Signal Range (0–1.67) by ReadsInTSS)



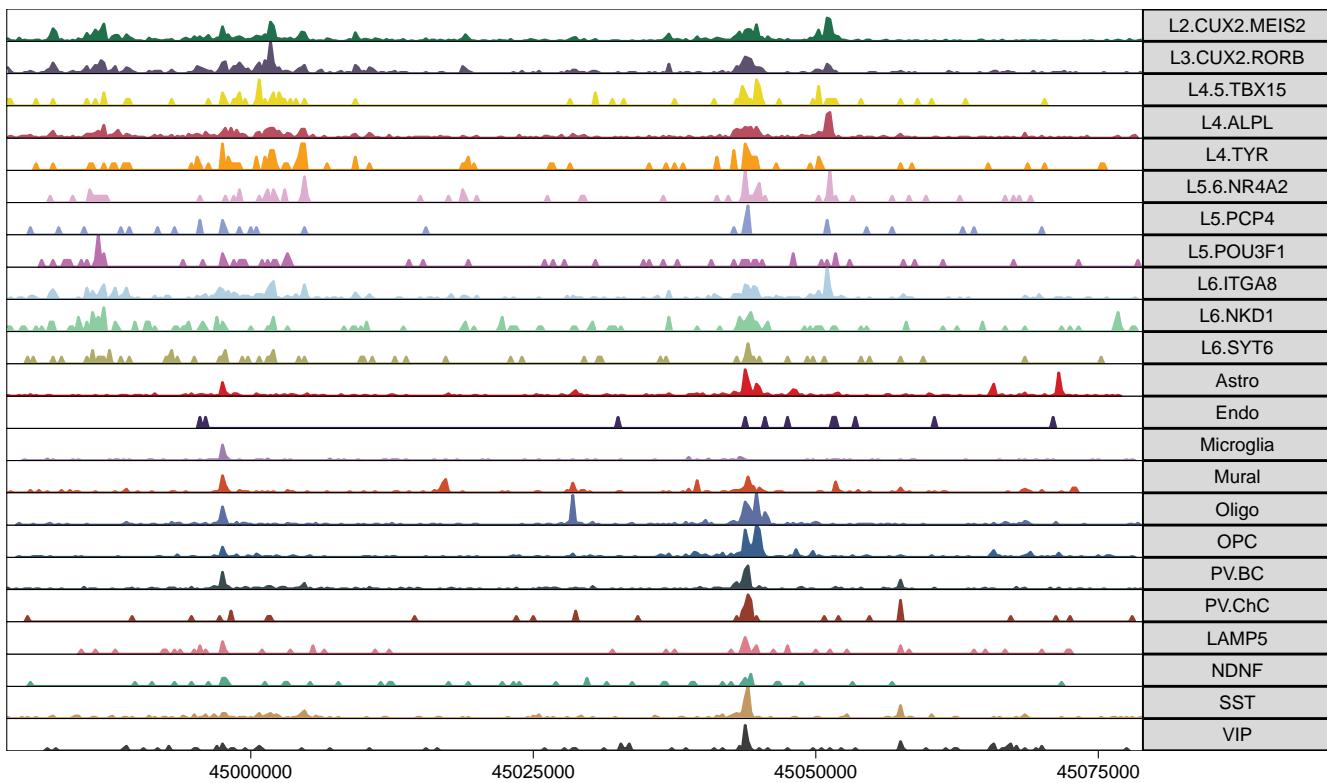
43650000 43675000 43700000 43725000



value  
0.9  
0.8  
0.7  
0.6  
0.5



## chr20:44978405–45078906 Marker Peak Tracks for: VIP

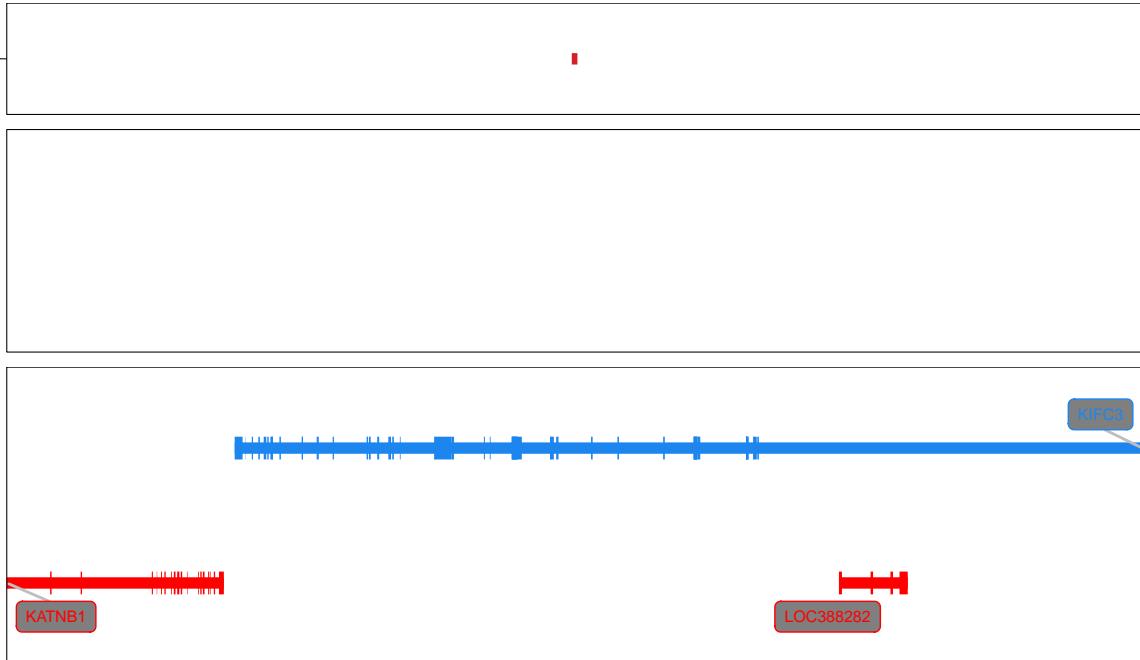
Coverage  
(Norm. ATAC Signal Range (0–1.14) by ReadsInTSS)

VIP

Peaks

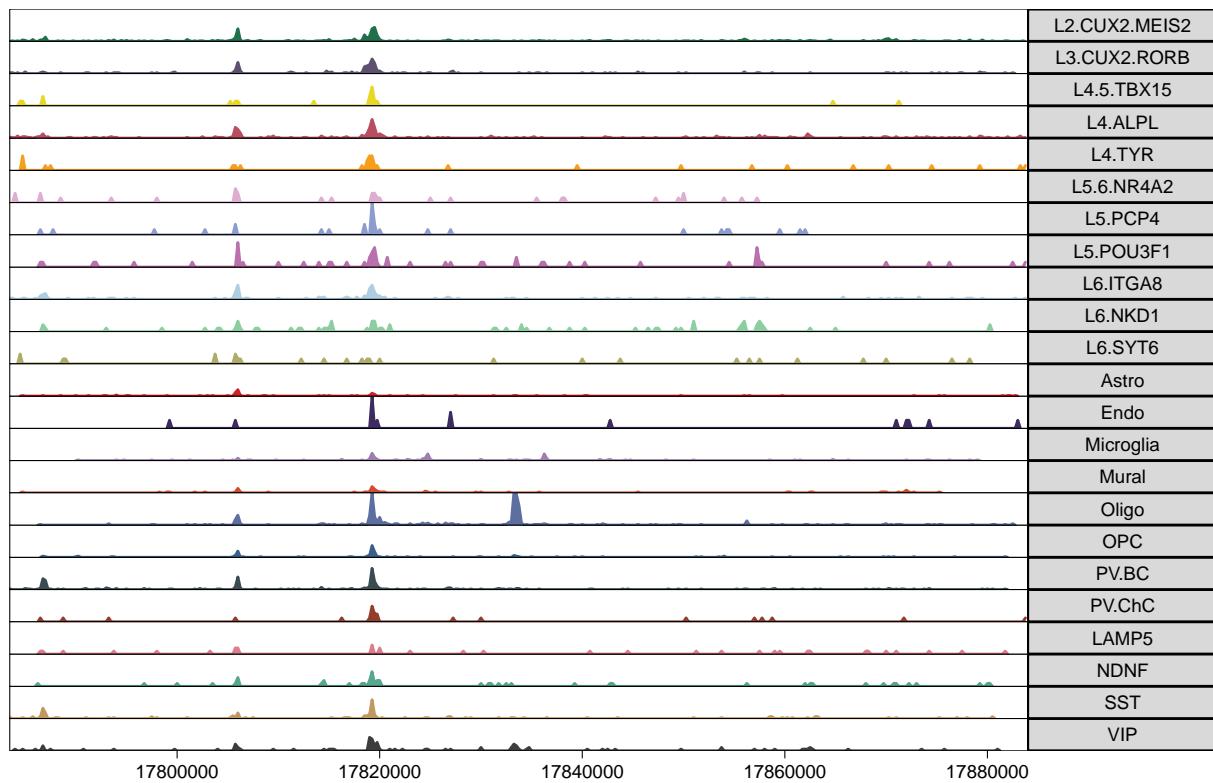
LoopTrack

Genes



chr20:17783477–17883978 Marker Peak Tracks for: VIP

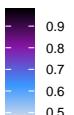
Coverage  
(Norm. ATAC Signal Range (0–1.56) by ReadsInTSS)



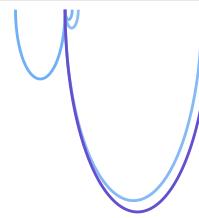
VIP

Peaks

value



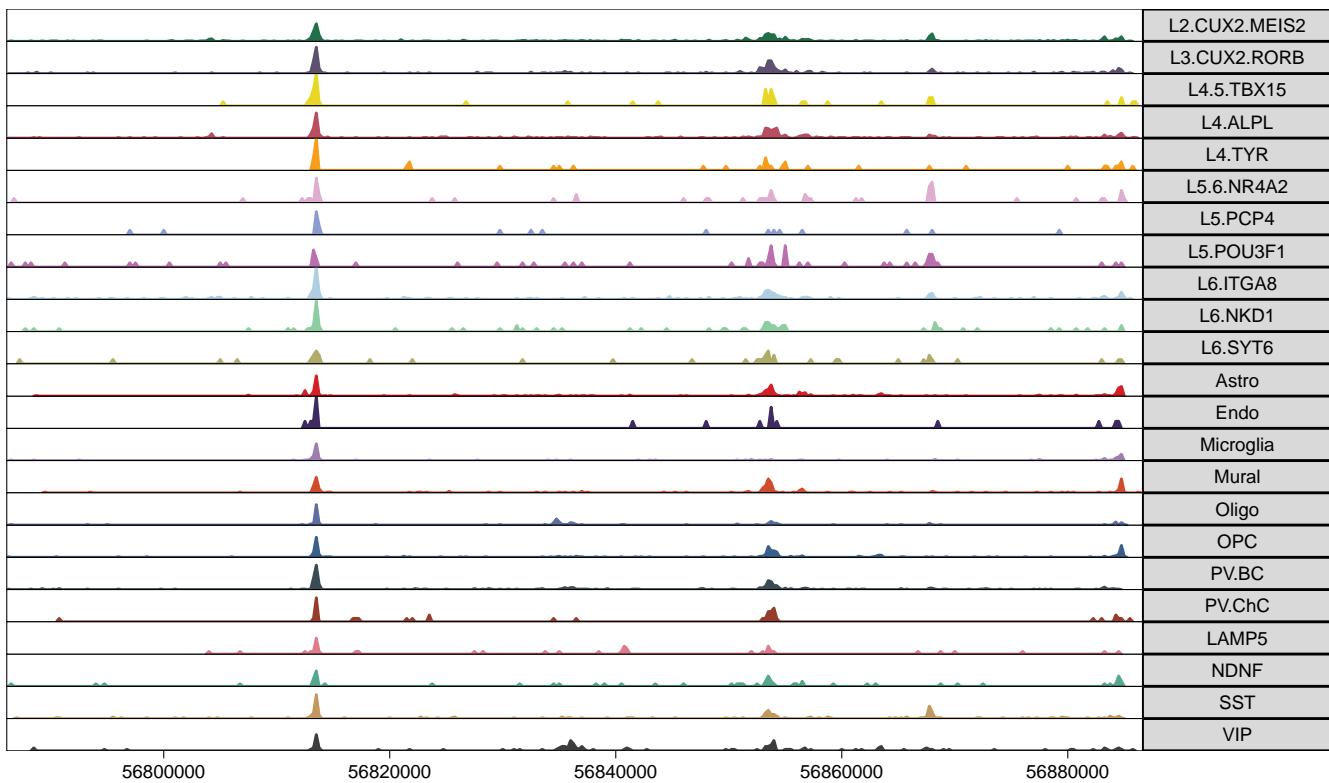
Peak2GeneLinks



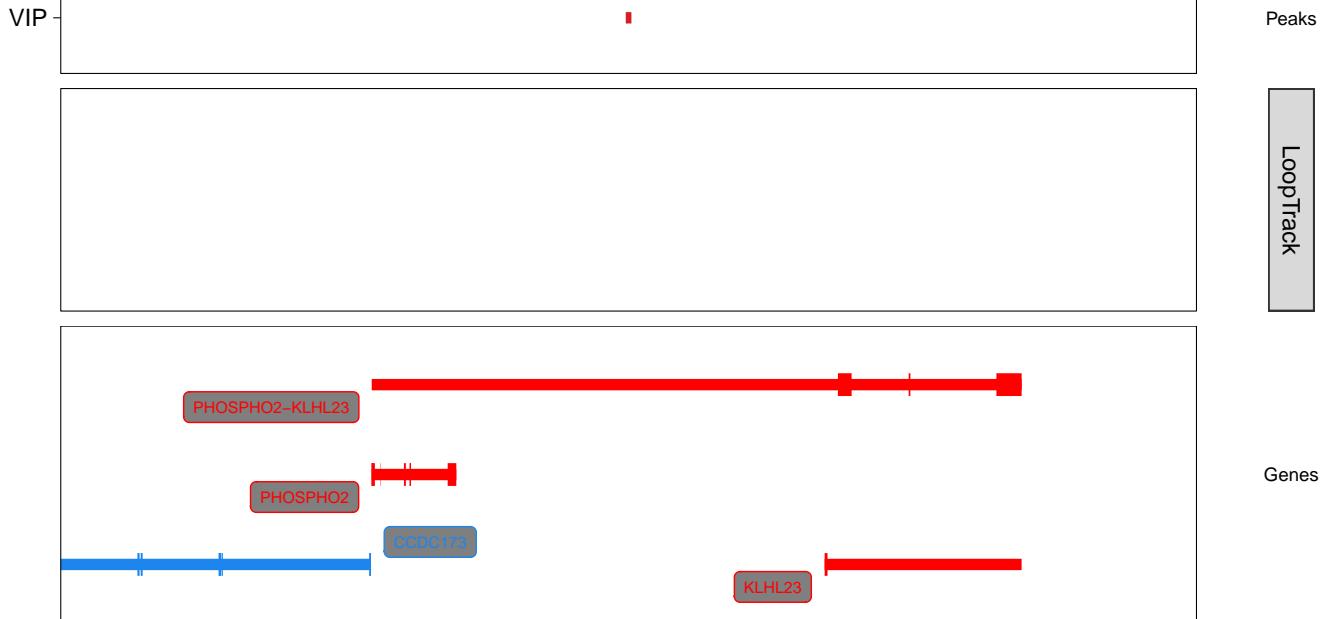
Genes

TMC7

## chr12:56786107–56886608 Marker Peak Tracks for: VIP

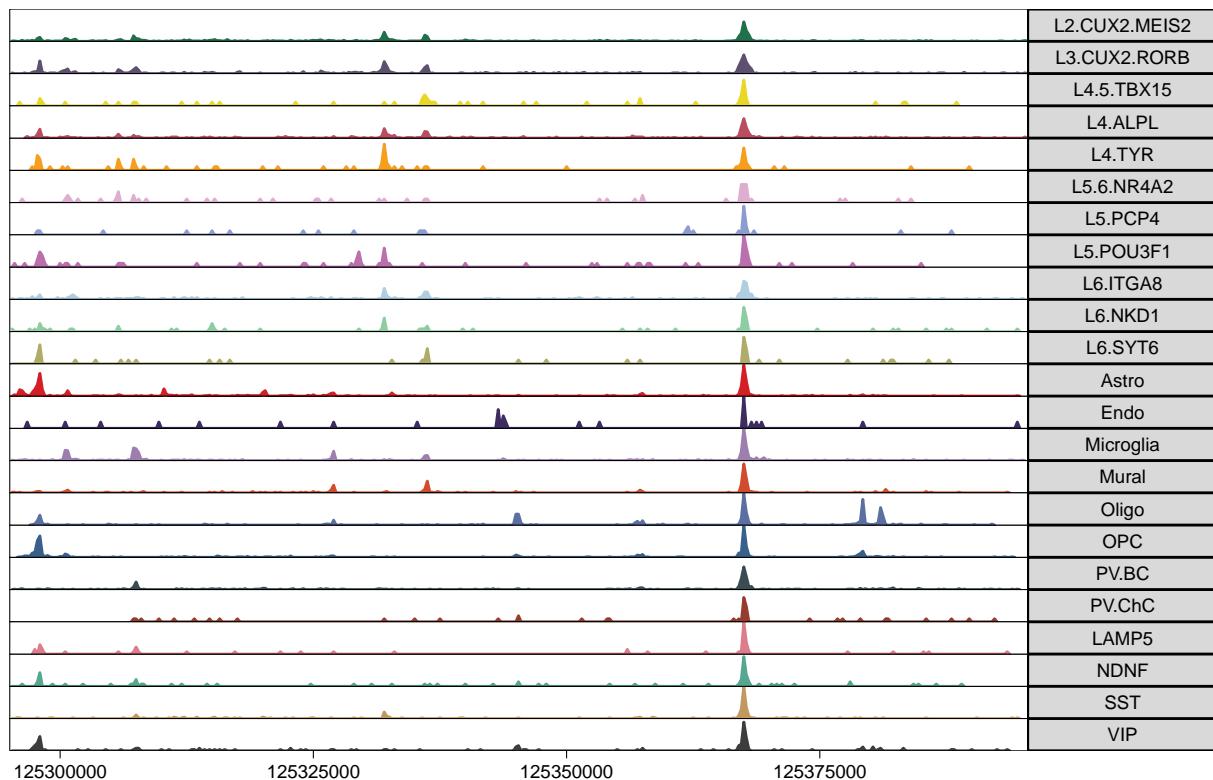
Coverage  
(Norm. ATAC Signal Range (0–1.79) by ReadsInTSS)

56800000 56820000 56840000 56860000 56880000

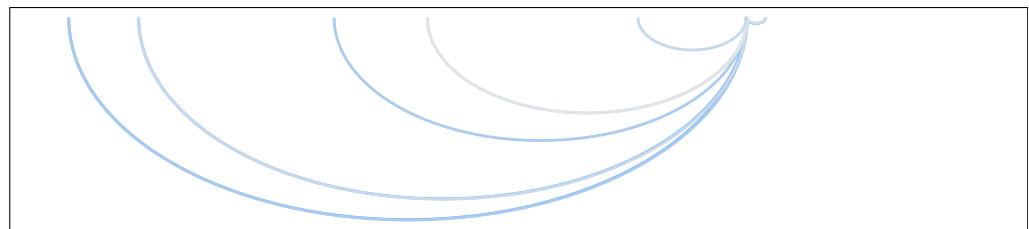


# chr12:125295025–125395526 Marker Peak Tracks for: VIP

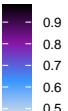
Coverage  
(Norm. ATAC Signal Range (0–2.0) by ReadsInTSS)



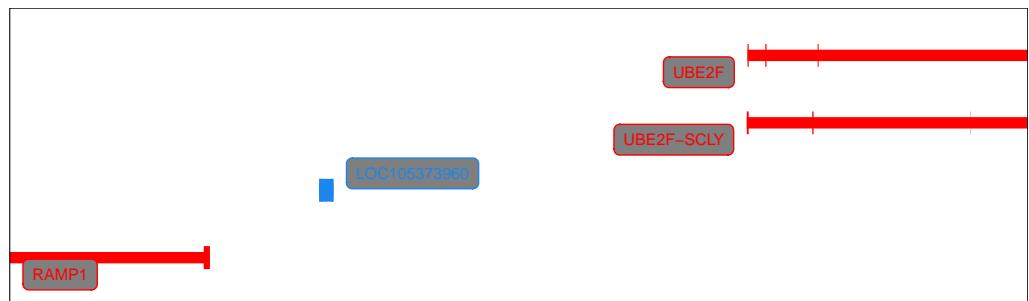
125300000 125325000 125350000 125375000



value

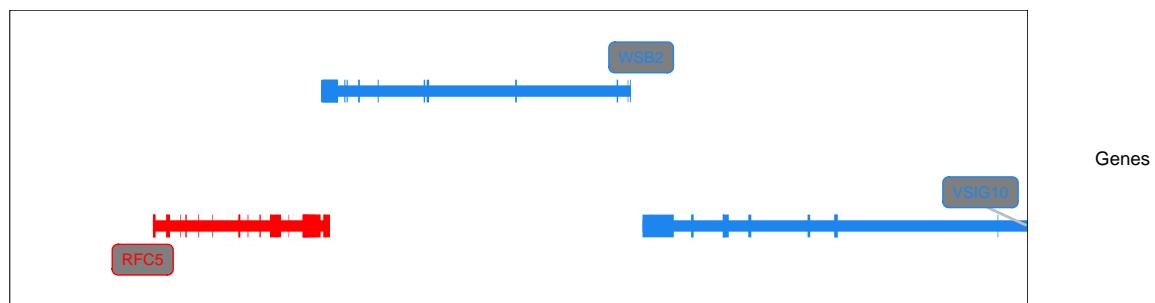
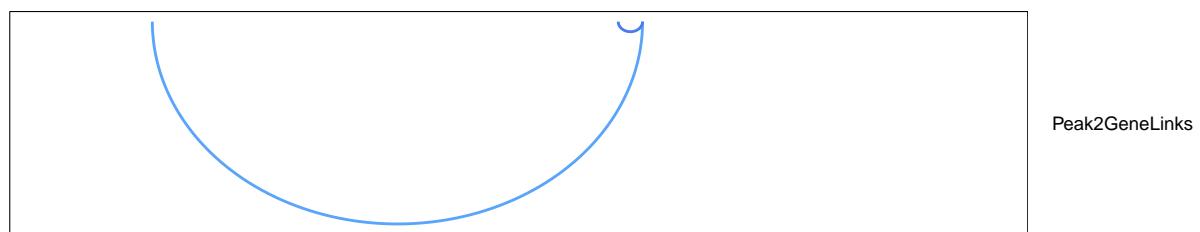
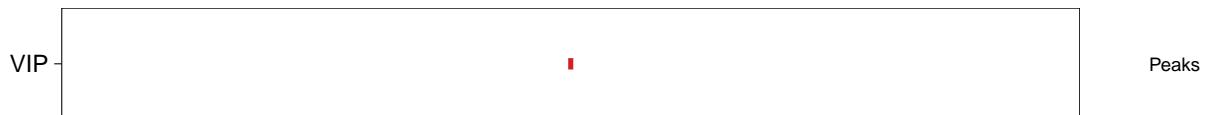
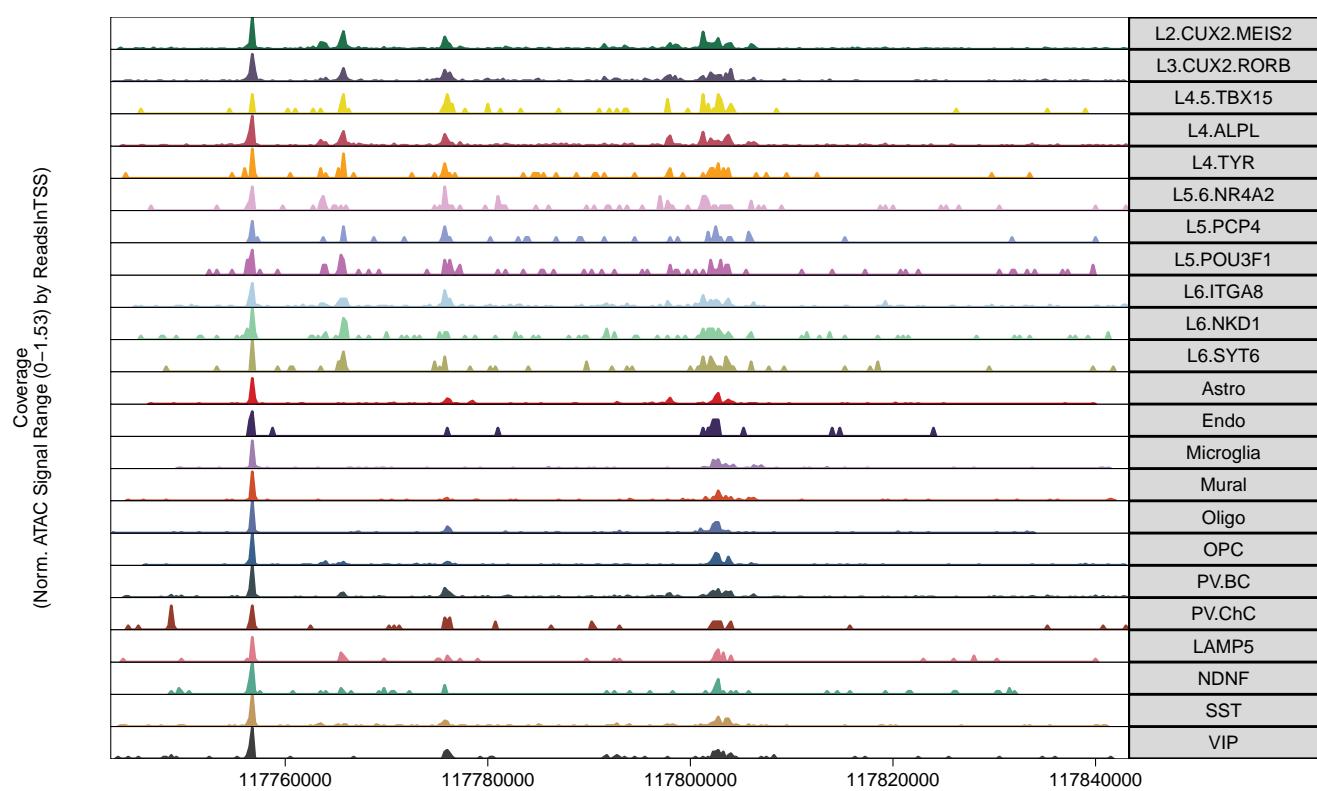


Peak2GeneLinks



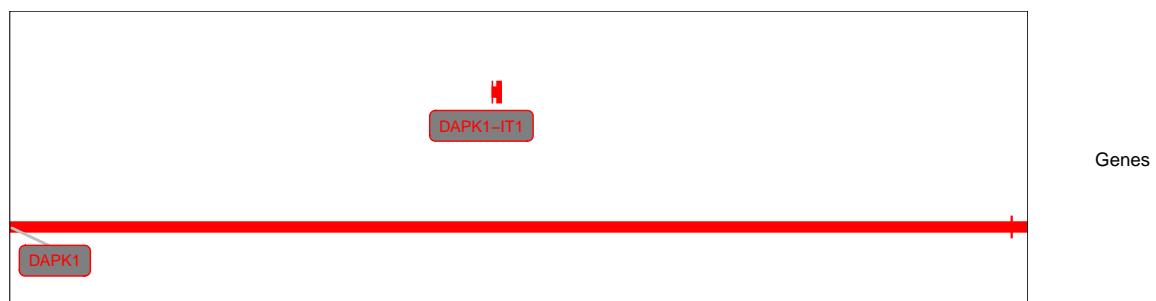
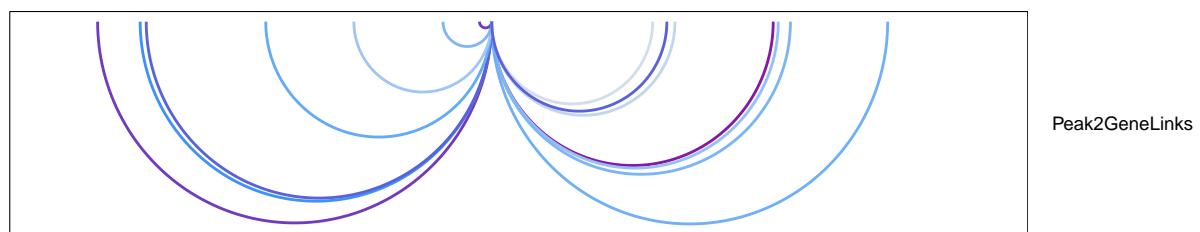
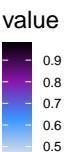
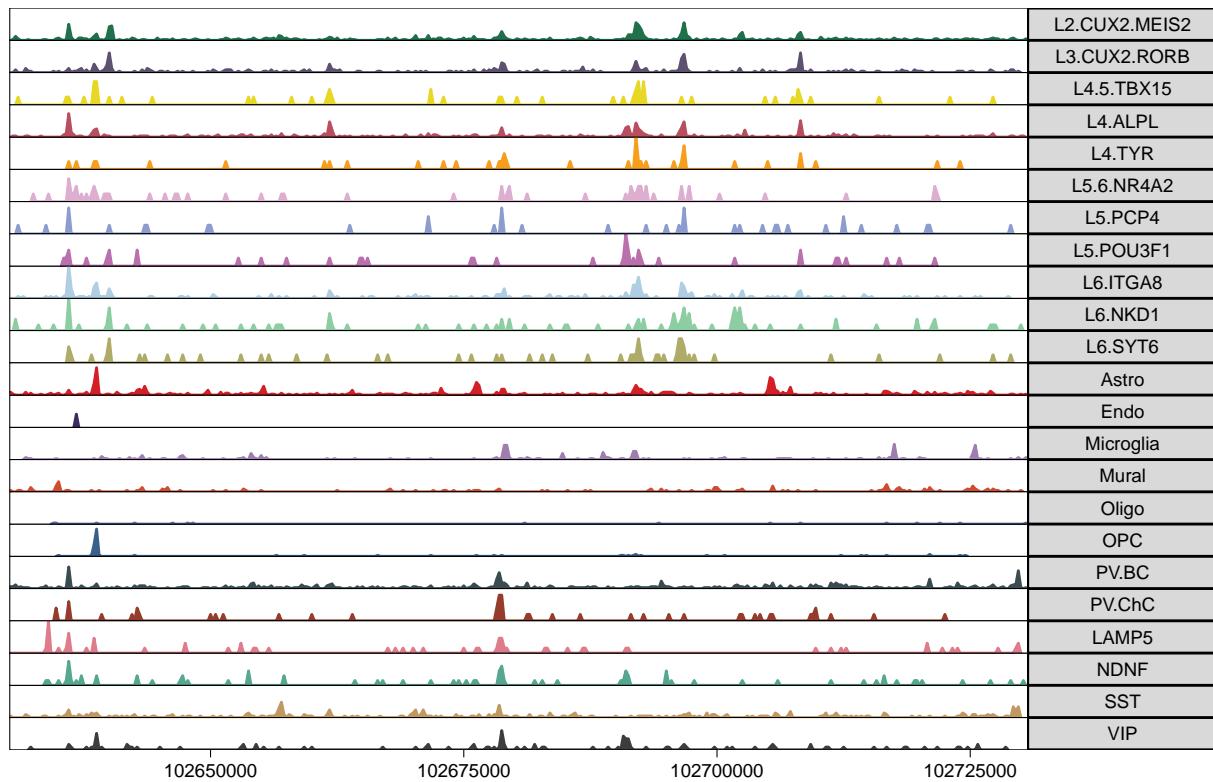
Genes

# chr11:117742774–117843275 Marker Peak Tracks for: VIP



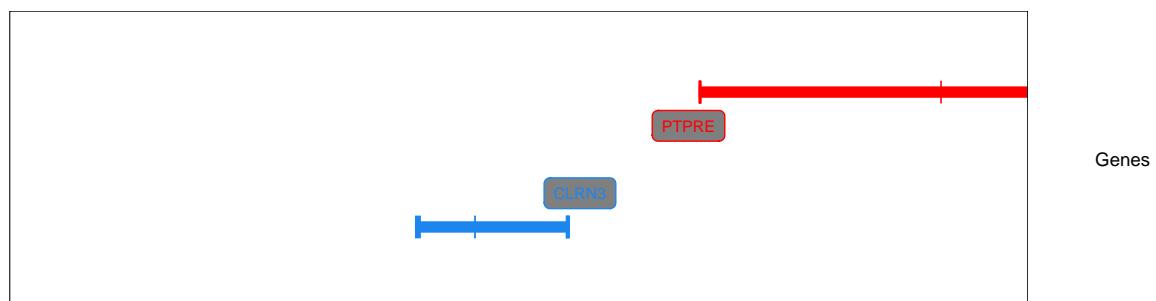
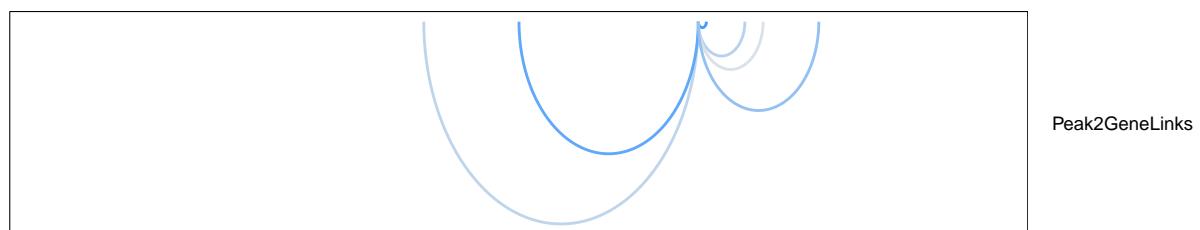
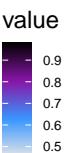
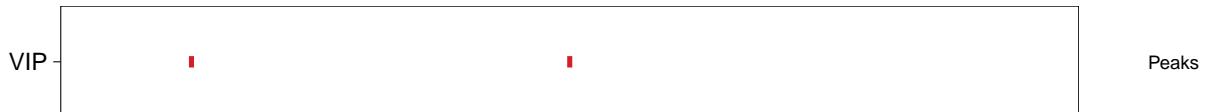
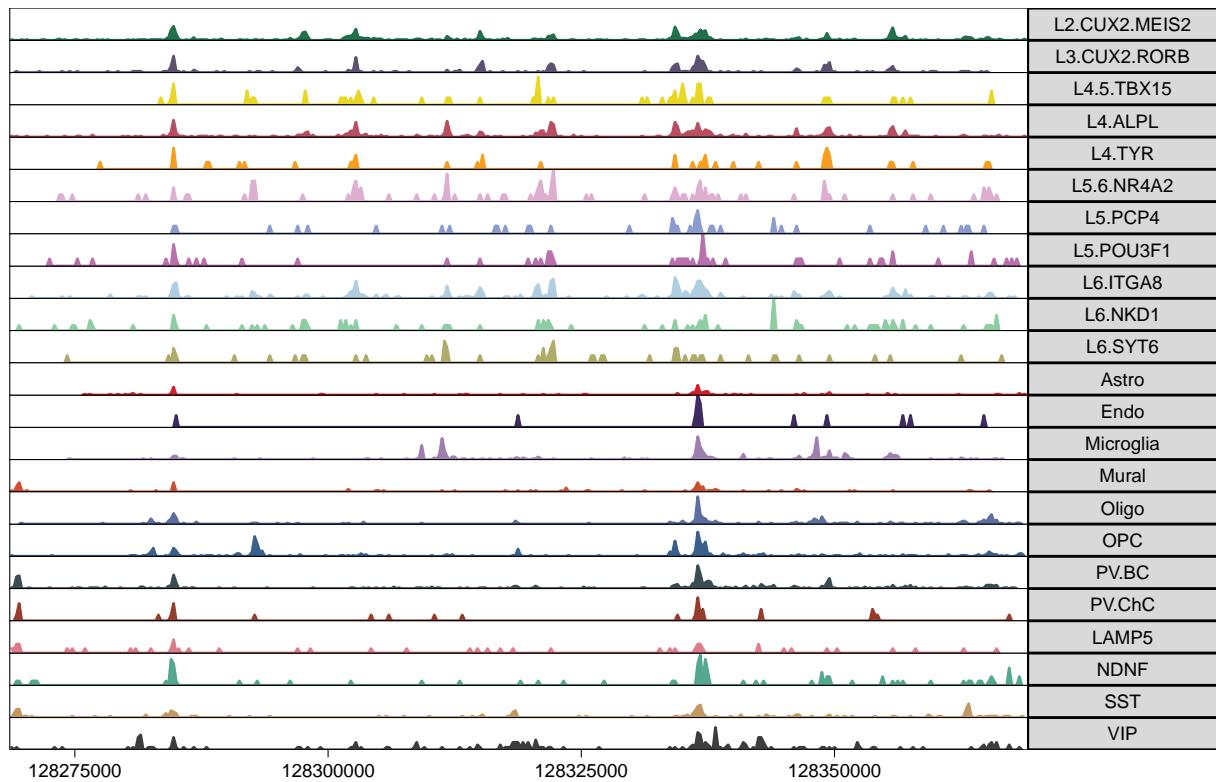
# chr15:102630175–102730676 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.96) by ReadsInTSS)

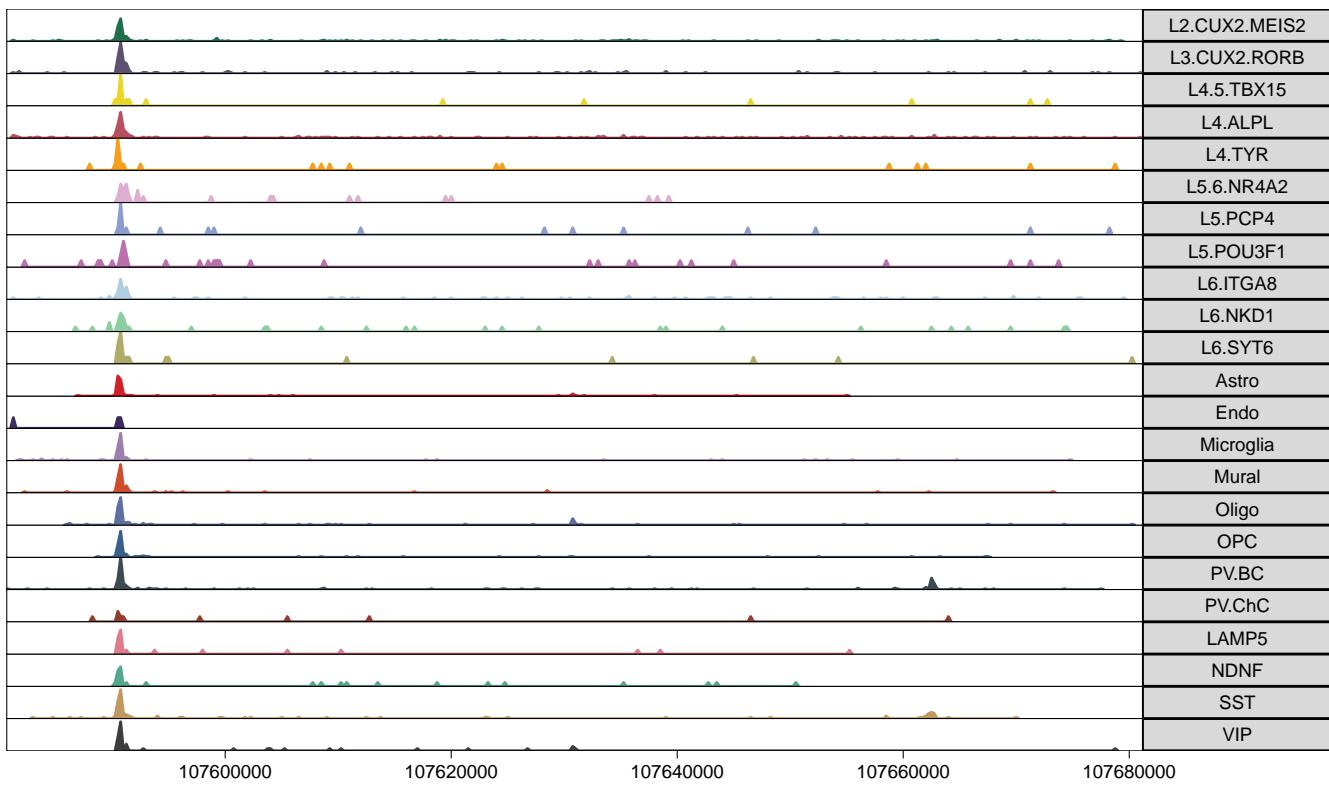


chr9:128268573–128369074 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.06) by ReadsInTSS)

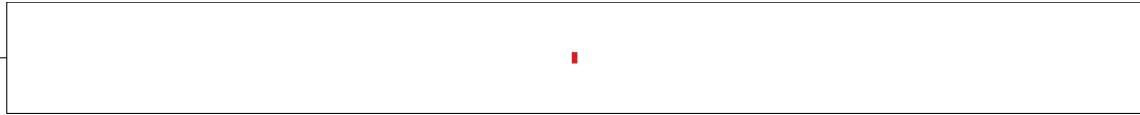


## chr14:107580667–107681168 Marker Peak Tracks for: VIP

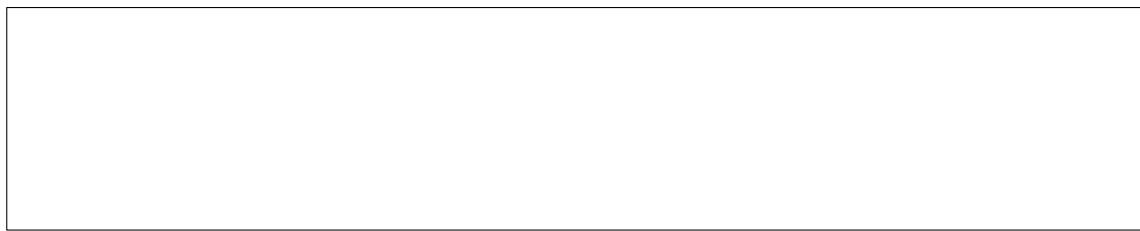
Coverage  
(Norm. ATAC Signal Range (0–1.18) by ReadsInTSS)

VIP

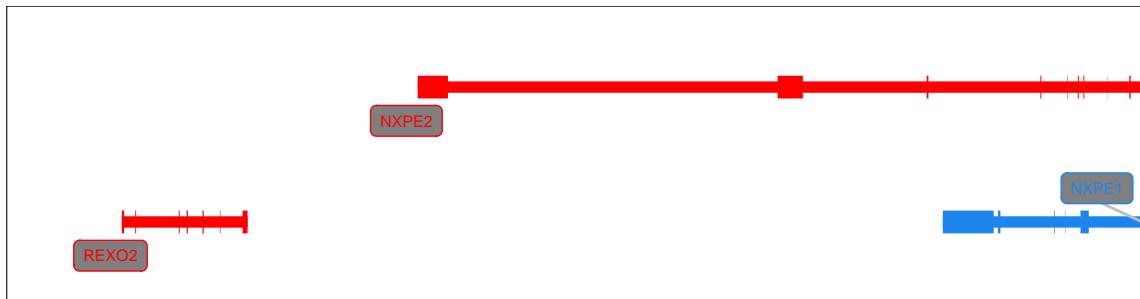
Peaks



LoopTrack

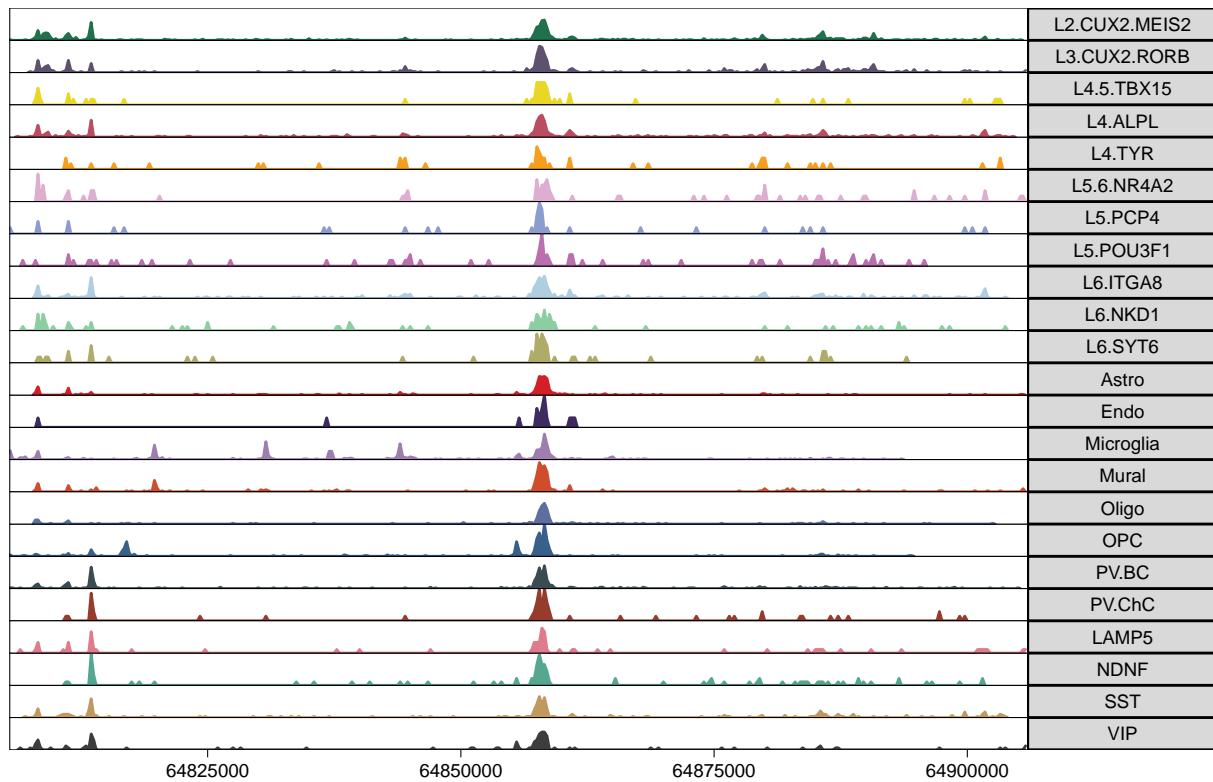


Genes

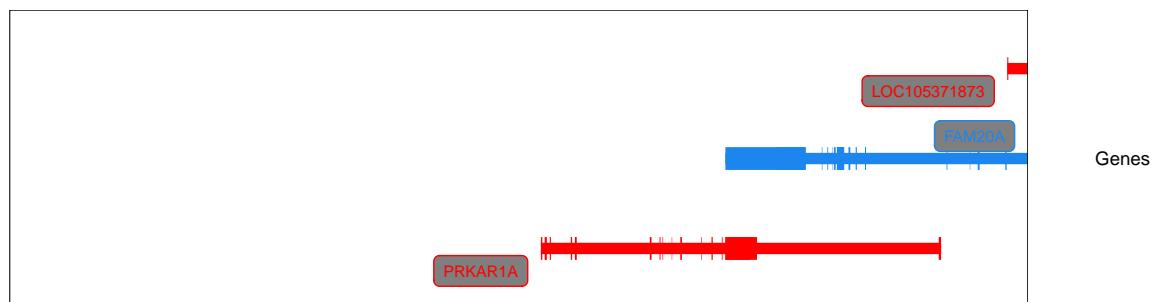
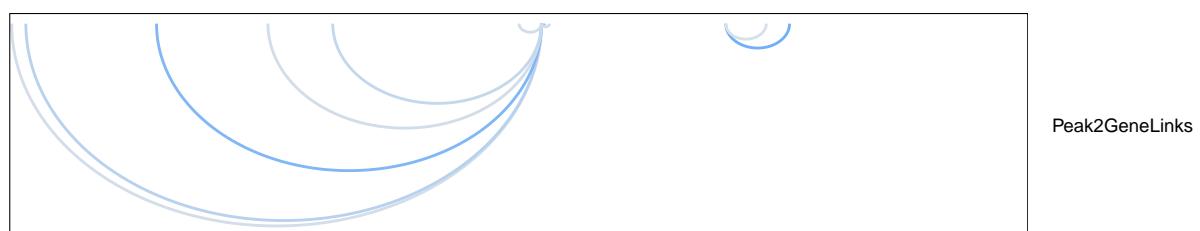
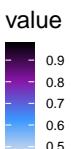


chr16:64805461–64905962 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.33) by ReadsInTSS)

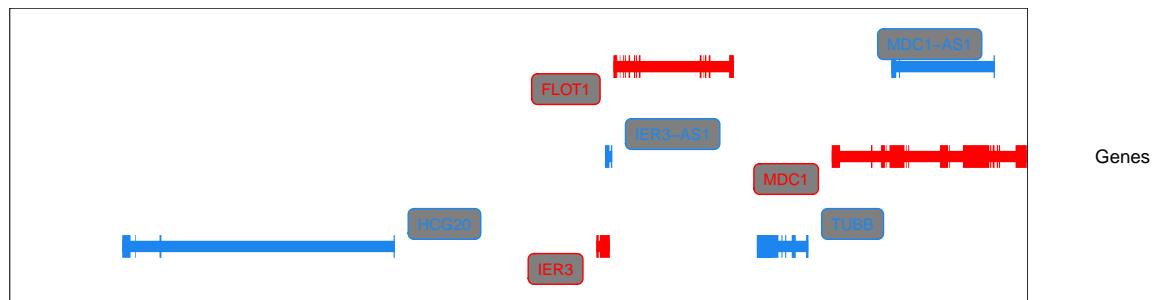
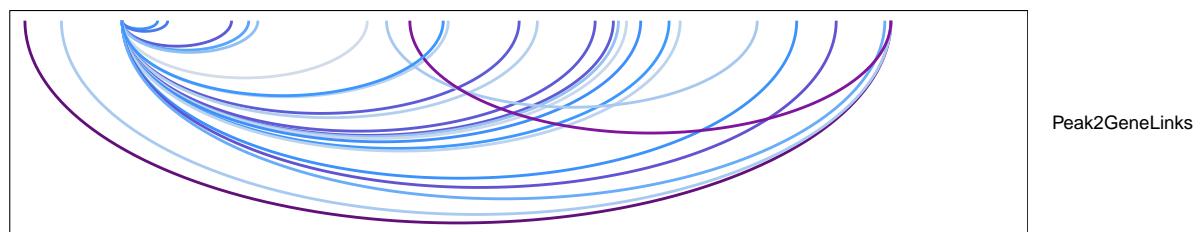
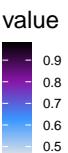
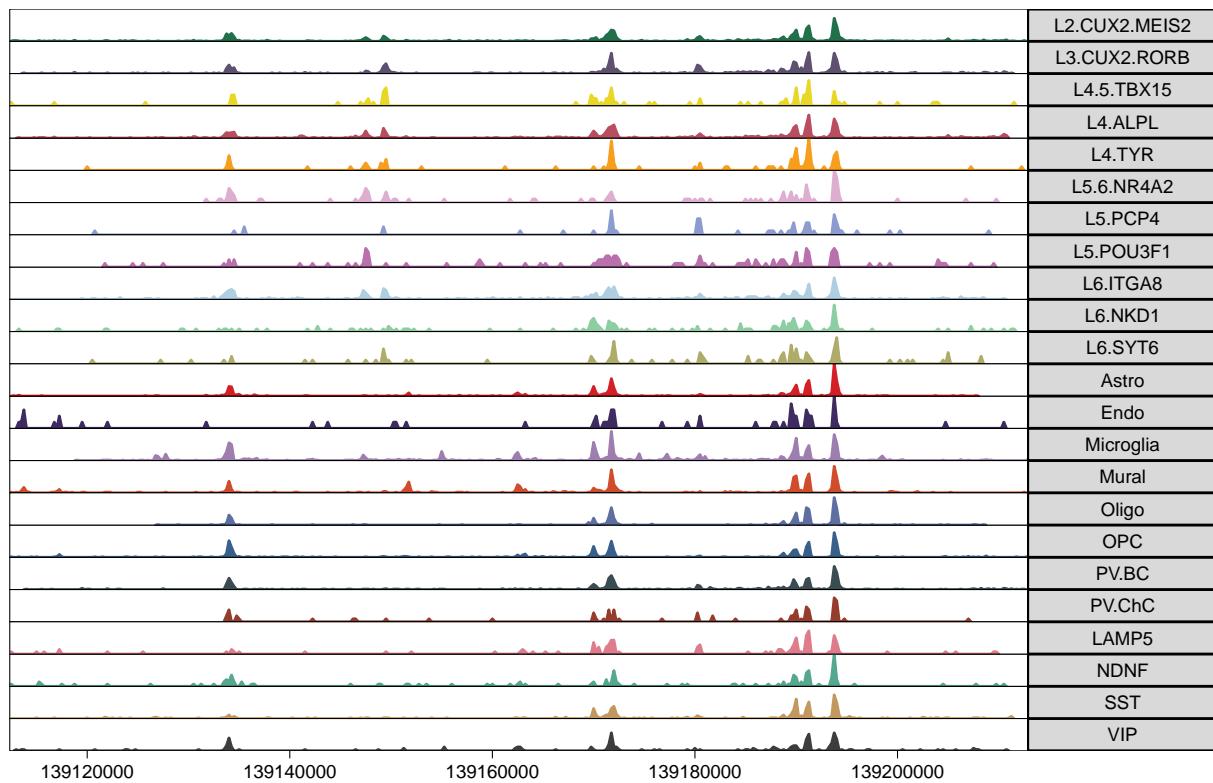


64825000 64850000 64875000 64900000

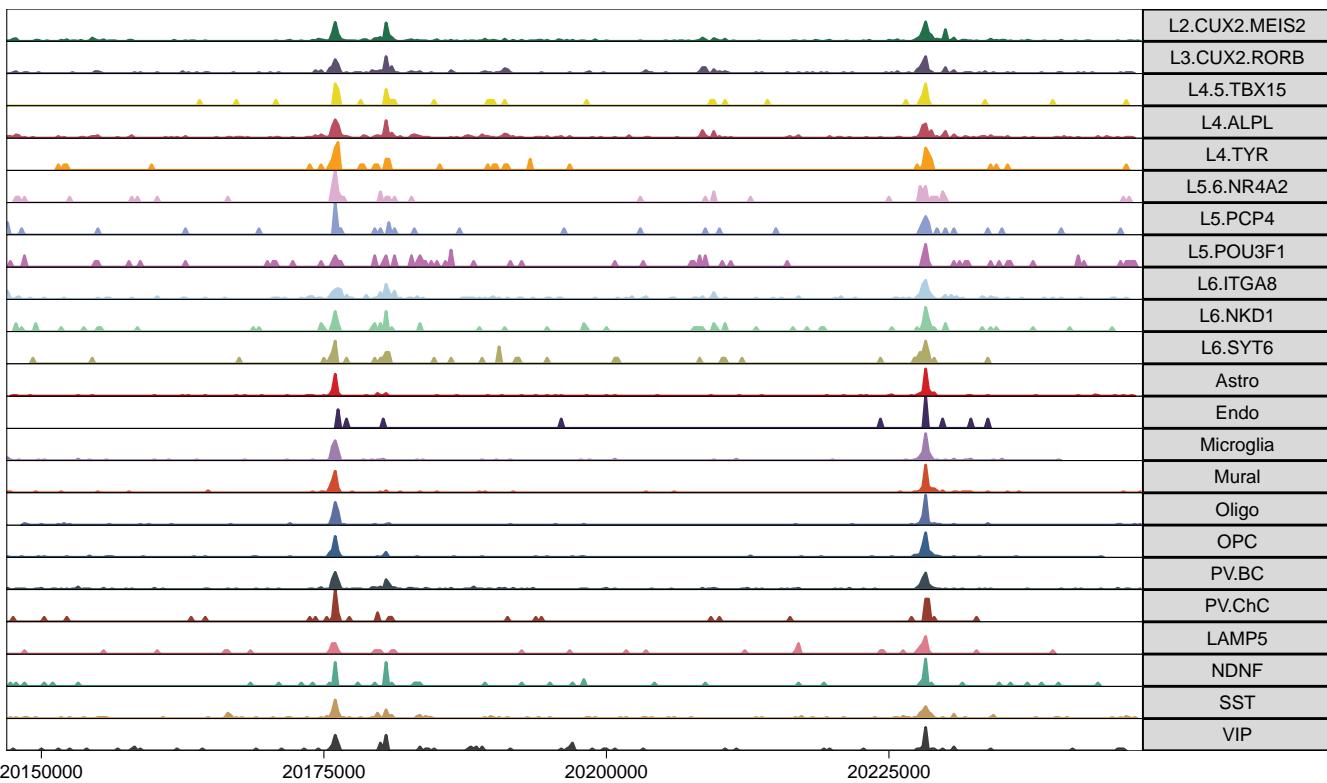


# chr4:139112353–139212854 Marker Peak Tracks for: VIP

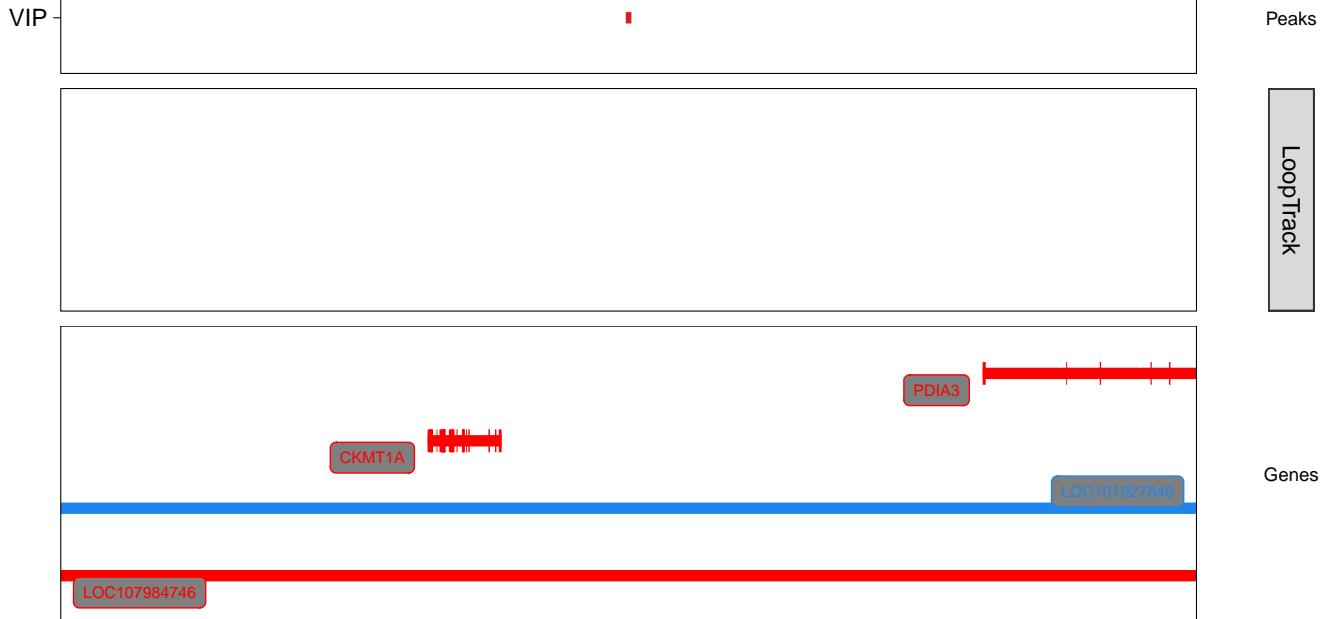
Coverage  
(Norm. ATAC Signal Range (0–2.05) by ReadsInTSS)



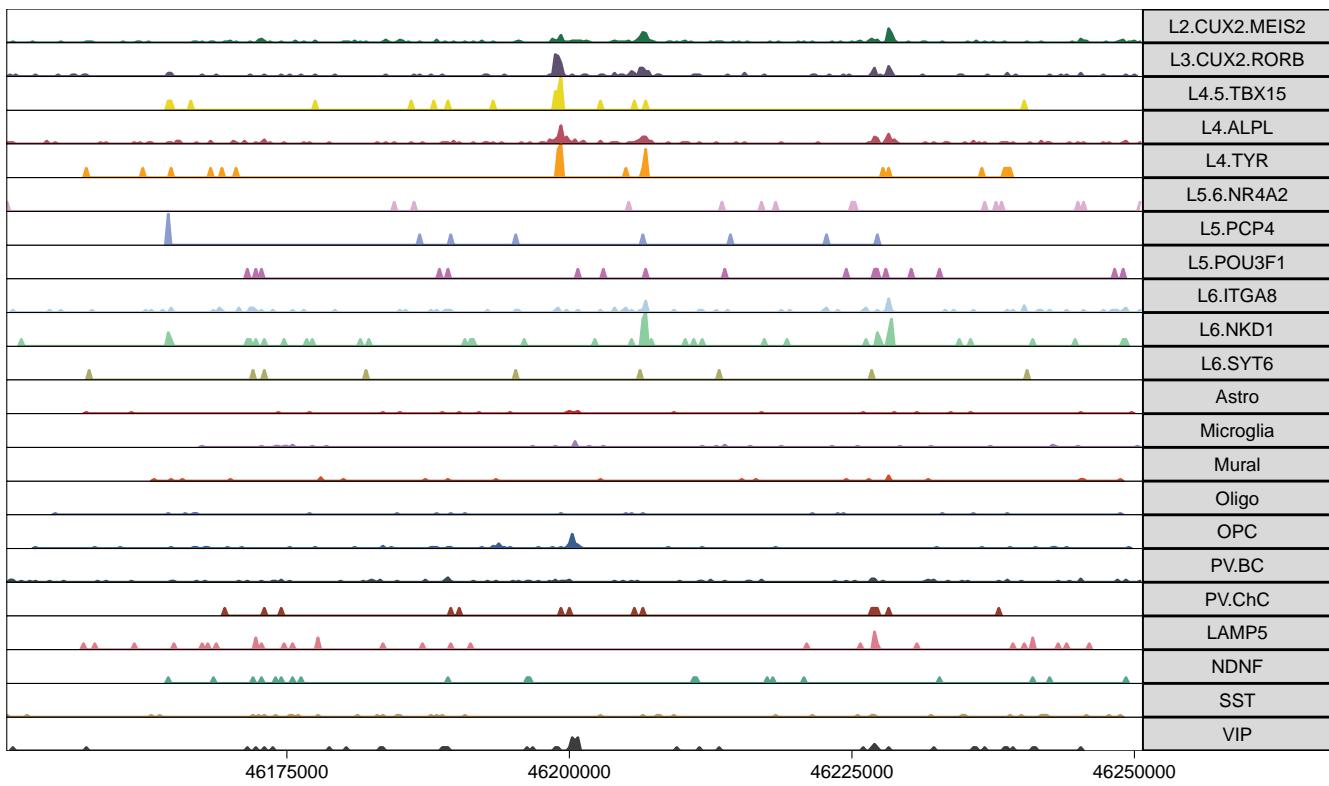
## chr7:20146933–20247434 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.35) by ReadsInTSS)

20150000 20175000 20200000 20225000



## chr10:46150209–46250710 Marker Peak Tracks for: VIP

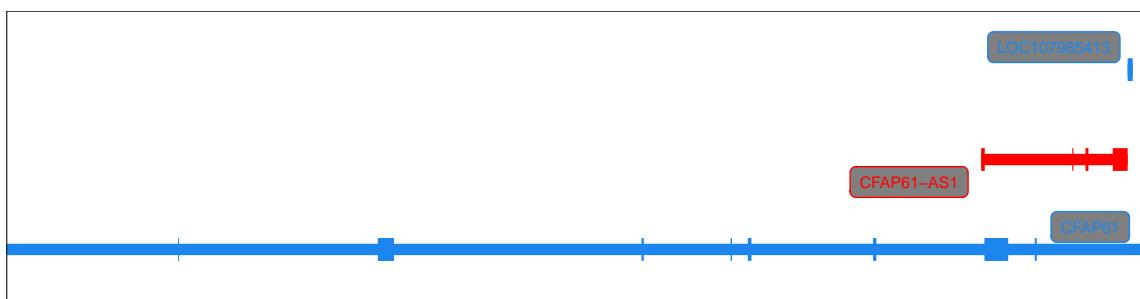
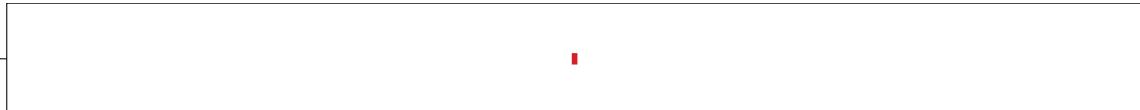
Coverage  
(Norm. ATAC Signal Range (0–0.84) by ReadsInTSS)

VIP

Peaks

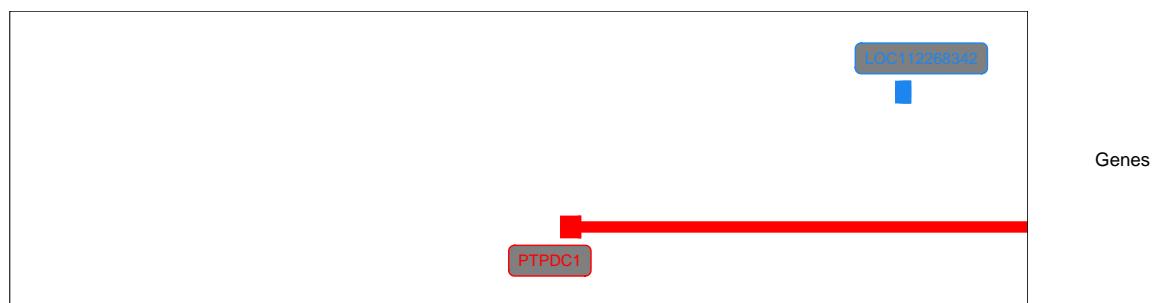
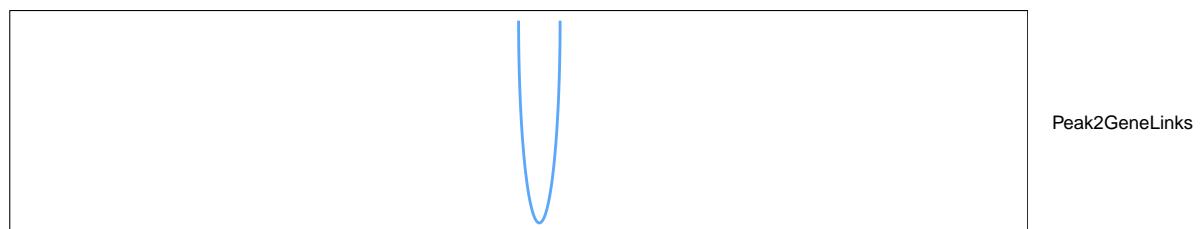
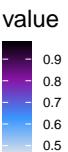
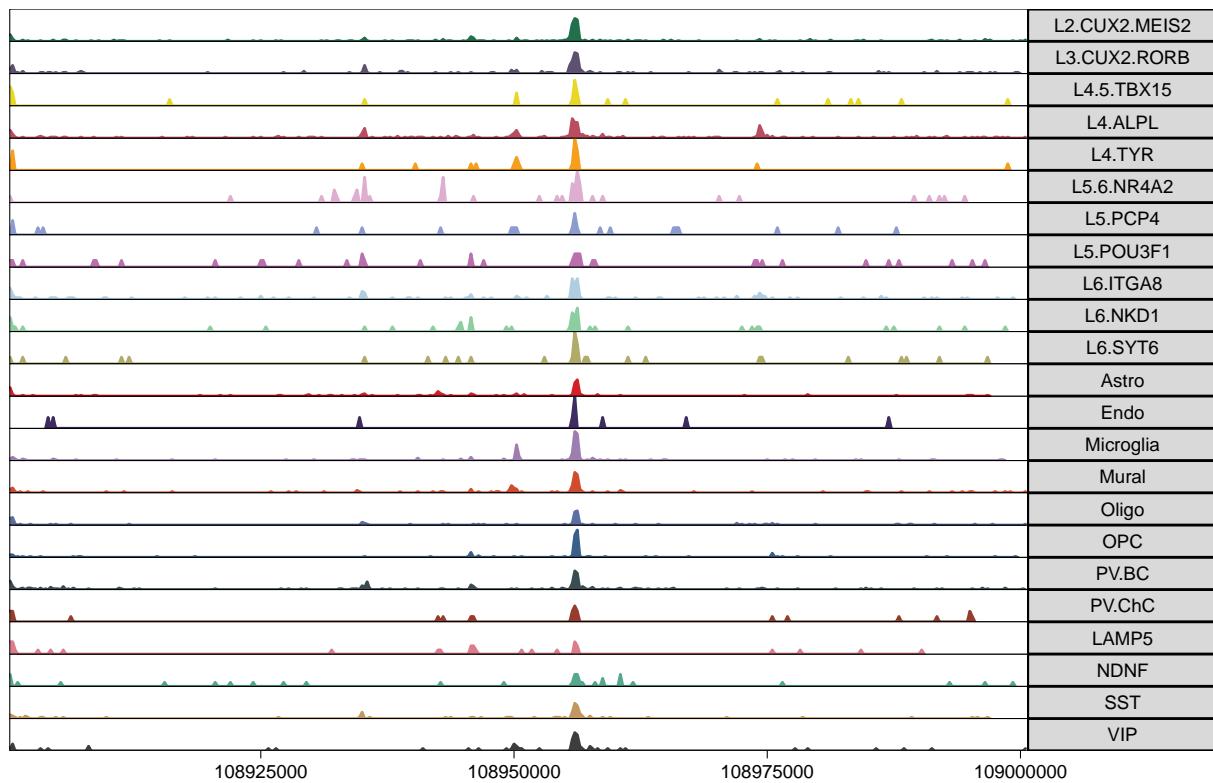
LoopTrack

Genes



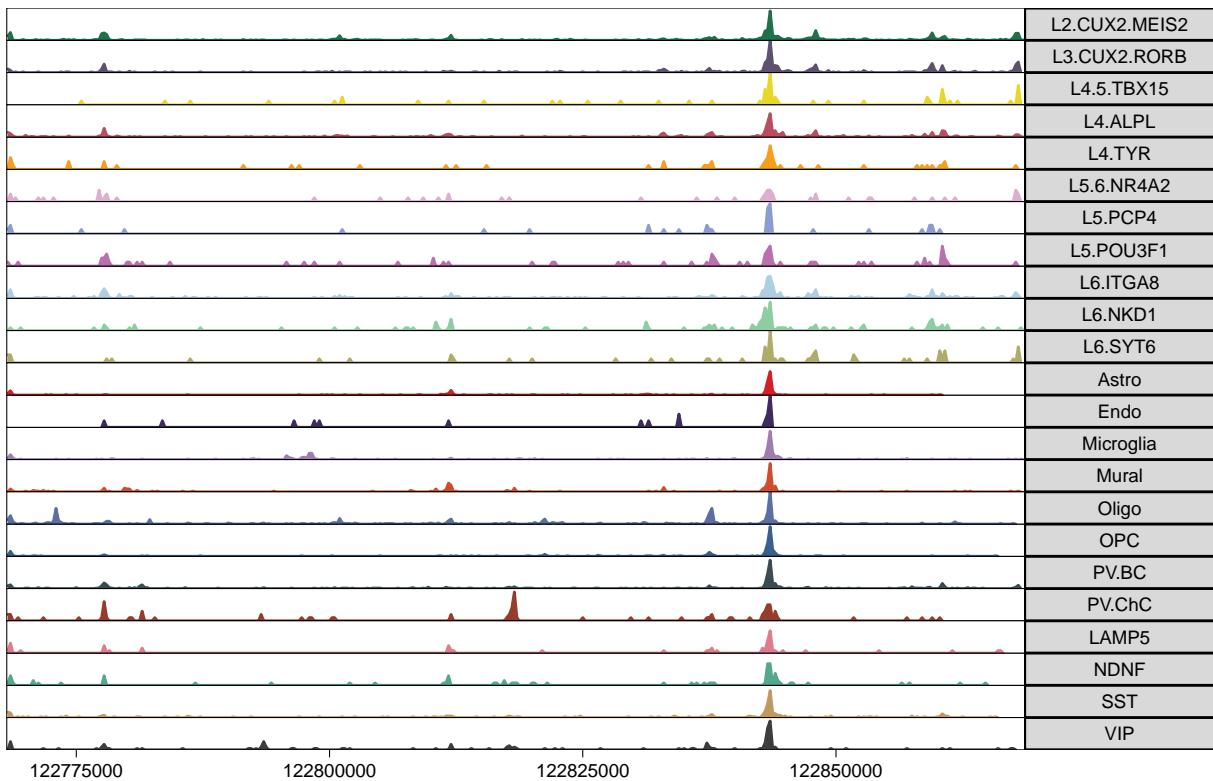
chr15:108900214–109000715 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.16) by ReadsInTSS)

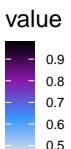
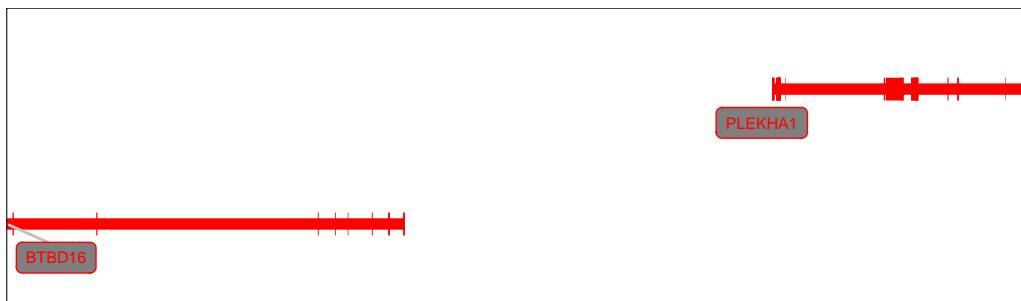
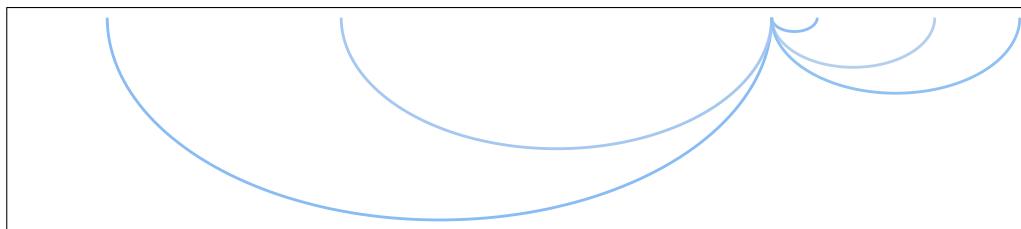


chr9:122768133–122868634 Marker Peak Tracks for: VIP

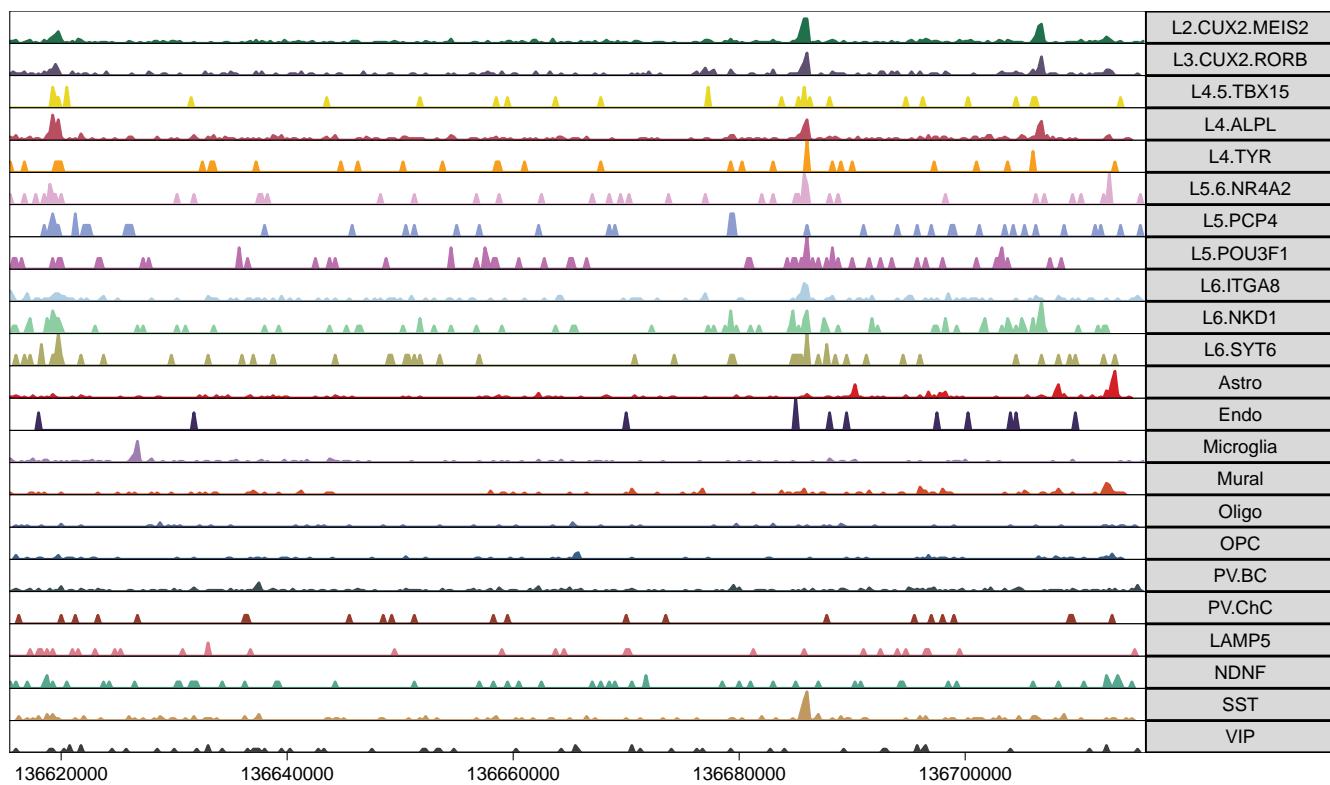
Coverage  
(Norm. ATAC Signal Range (0–1.91) by ReadsInTSS)



122775000 122800000 122825000 122850000



## chr7:136615449–136715950 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.72) by ReadsInTSS)

136620000 136640000 136660000 136680000 136700000

VIP

Peaks

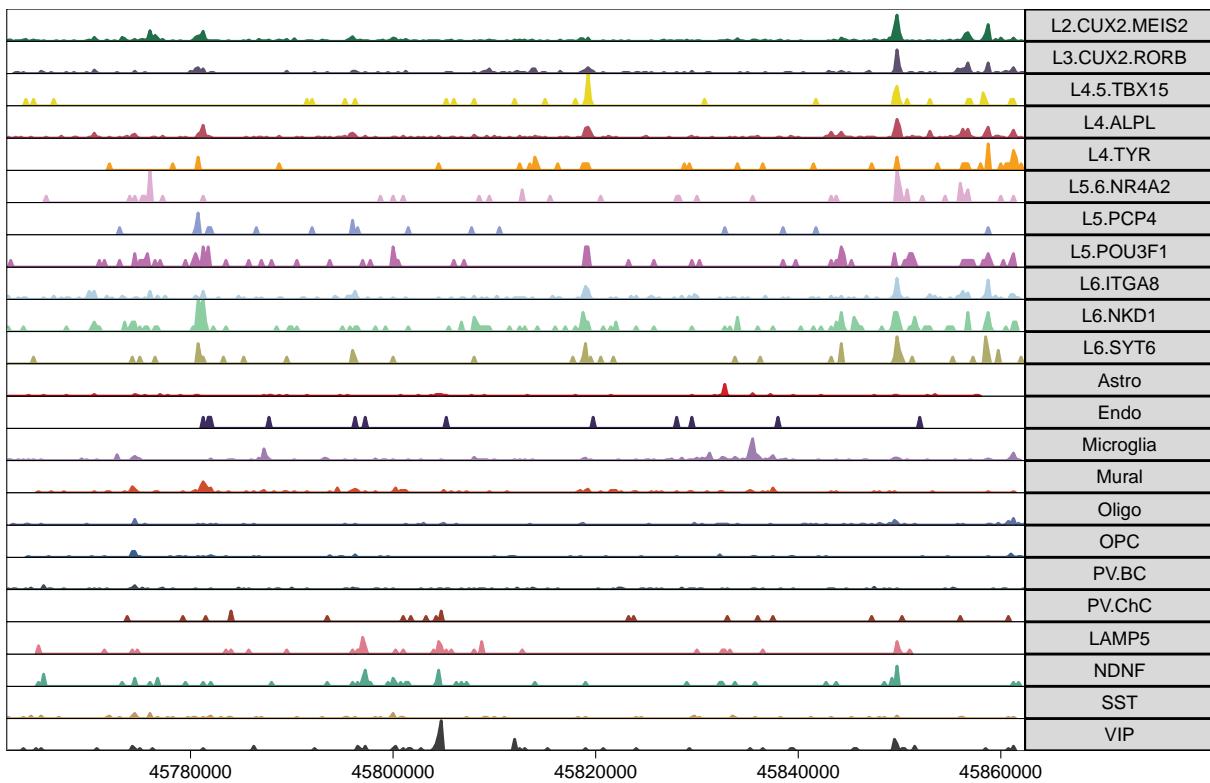
LoopTrack

LTBP2

Genes

chr7:45761858–45862359 Marker Peak Tracks for: VIP

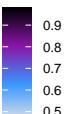
Coverage  
(Norm. ATAC Signal Range (0–1.13) by ReadsInTSS)



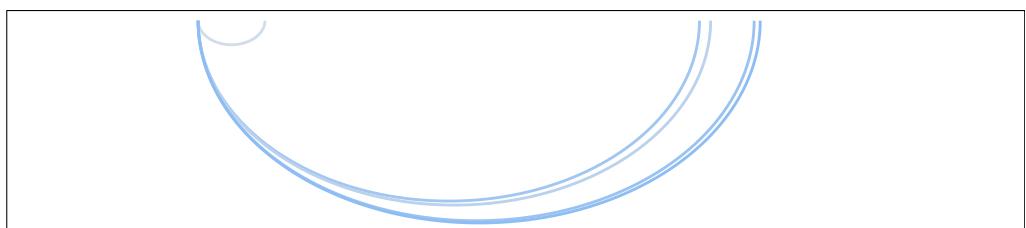
45780000 45800000 45820000 45840000 45860000

VIP - Peaks

value



Peak2GeneLinks

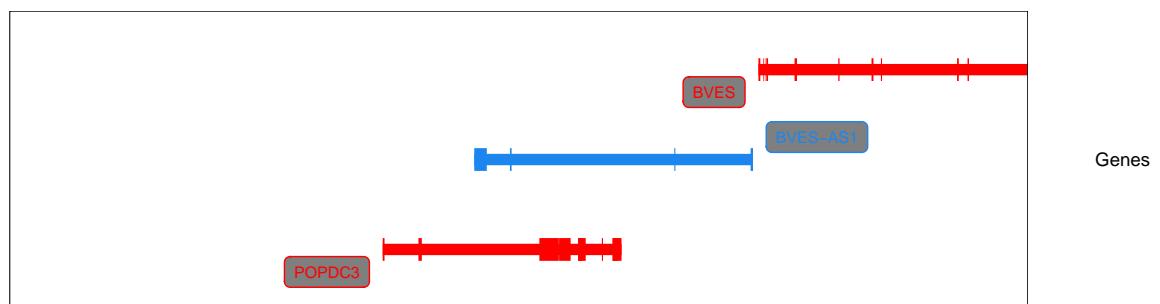
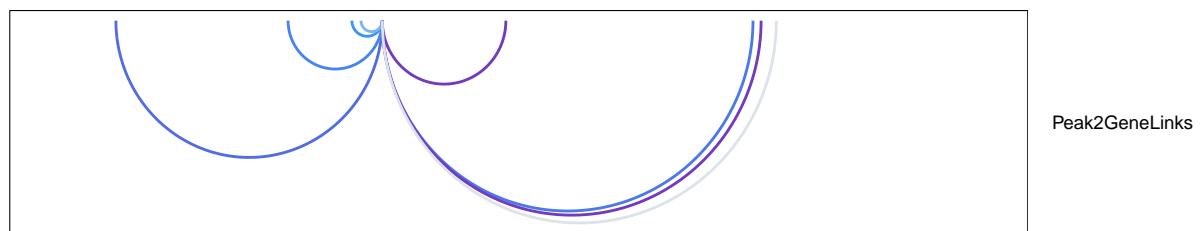
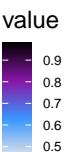
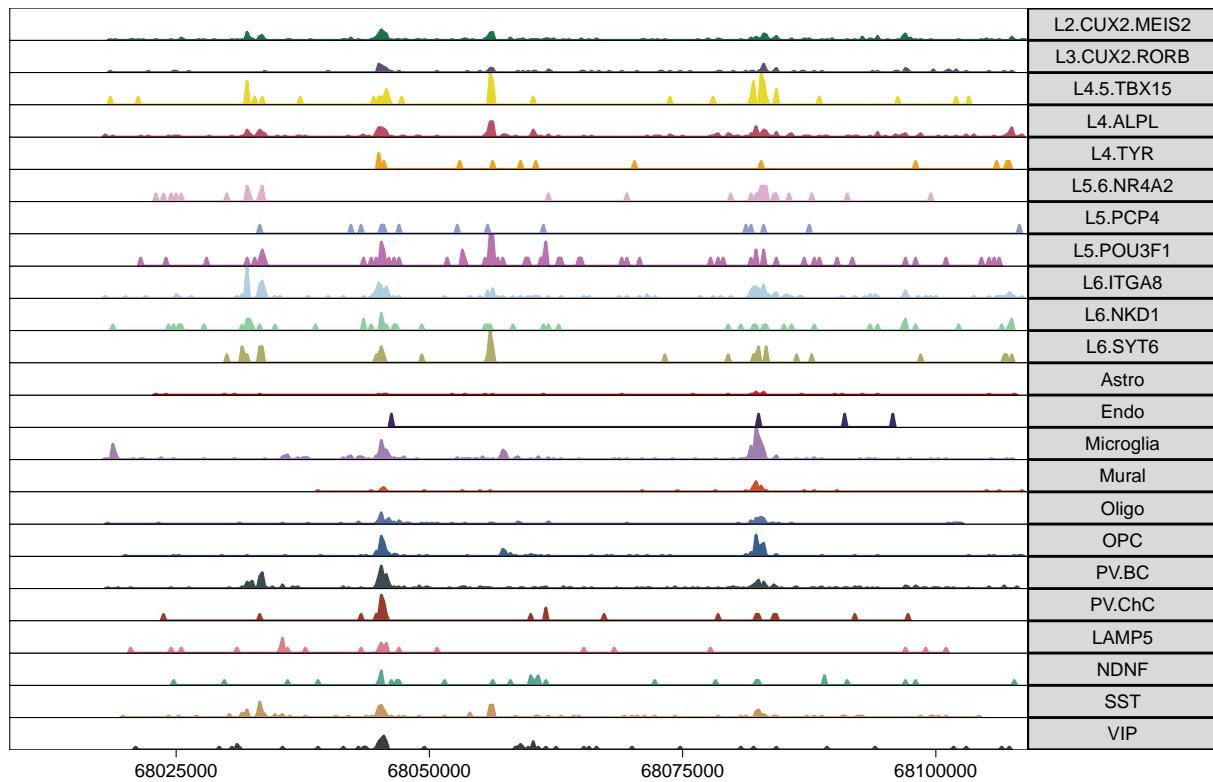


Genes

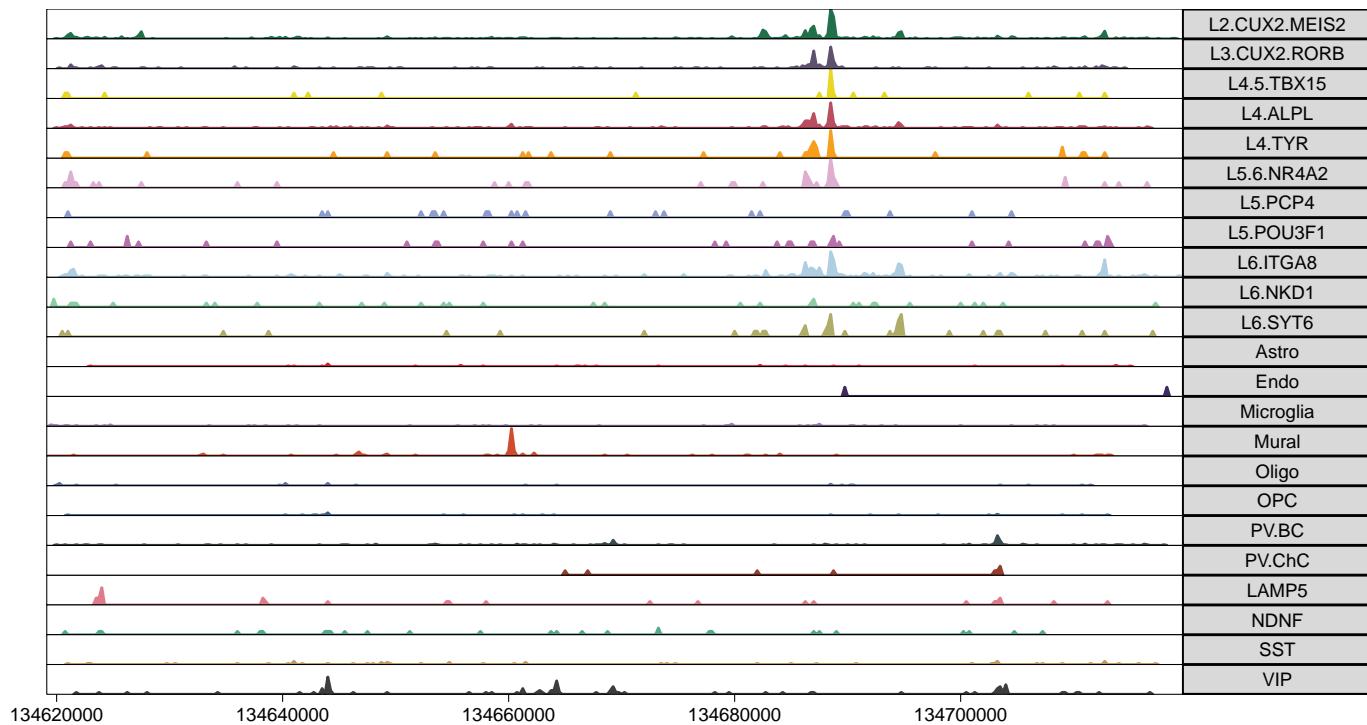


chr4:68008570–68109071 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.95) by ReadsInTSS)



## chr8:134619126–134719627 Marker Peak Tracks for: VIP

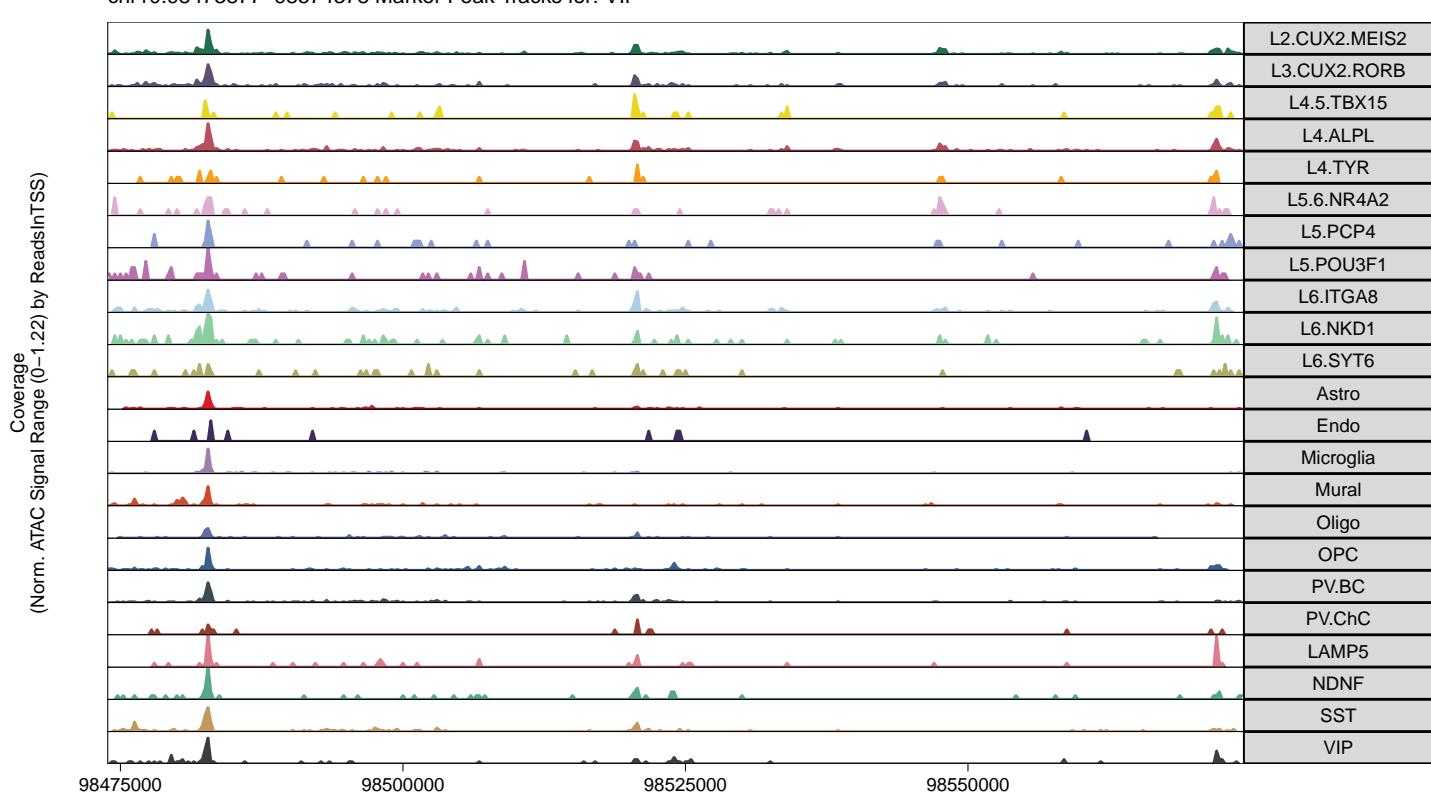
Coverage  
(Norm. ATAC Signal Range (0–1.26) by ReadstTSS)

134620000 134640000 134660000 134680000 134700000

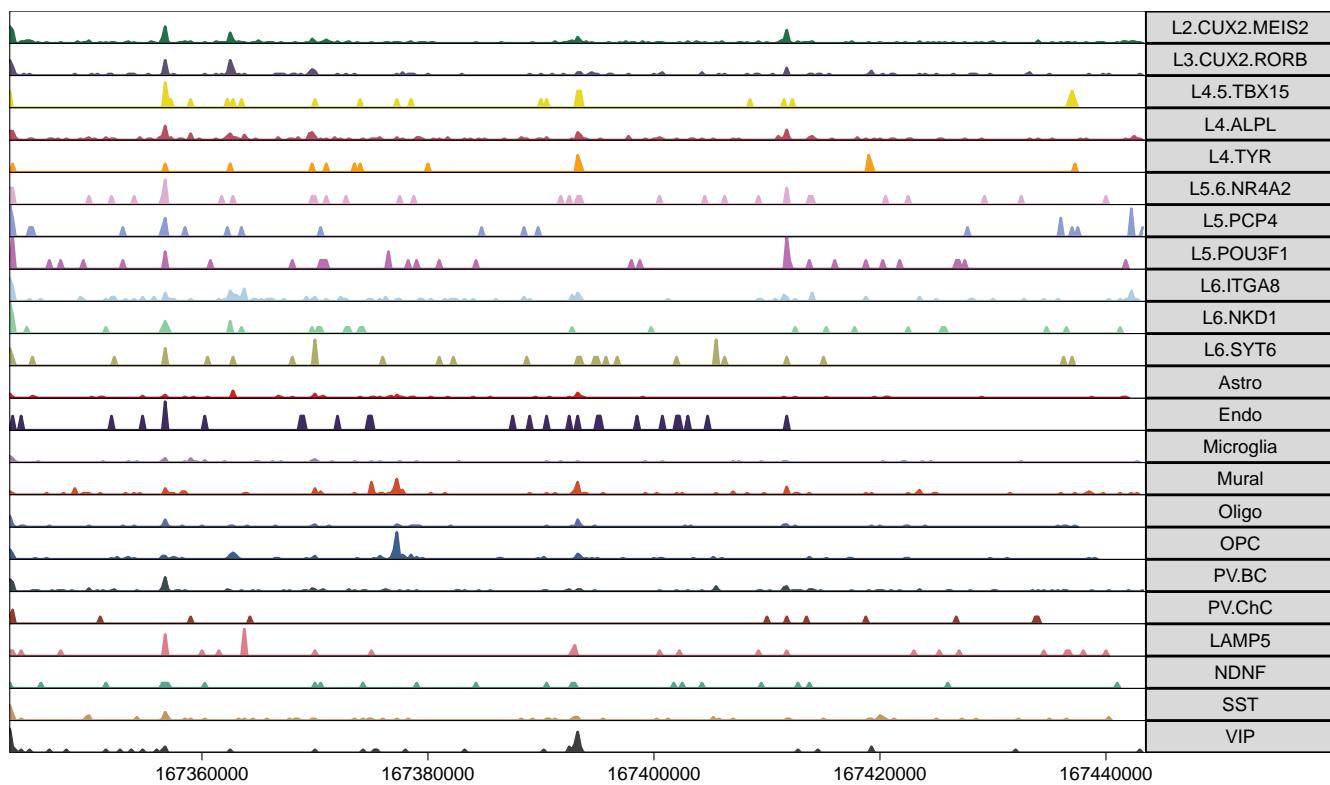


strand ● •

## chr10:98473877–98574378 Marker Peak Tracks for: VIP



## chr4:167342993–167443494 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.88) by ReadsInTSS)

167360000 167380000 167400000 167420000 167440000

VIP

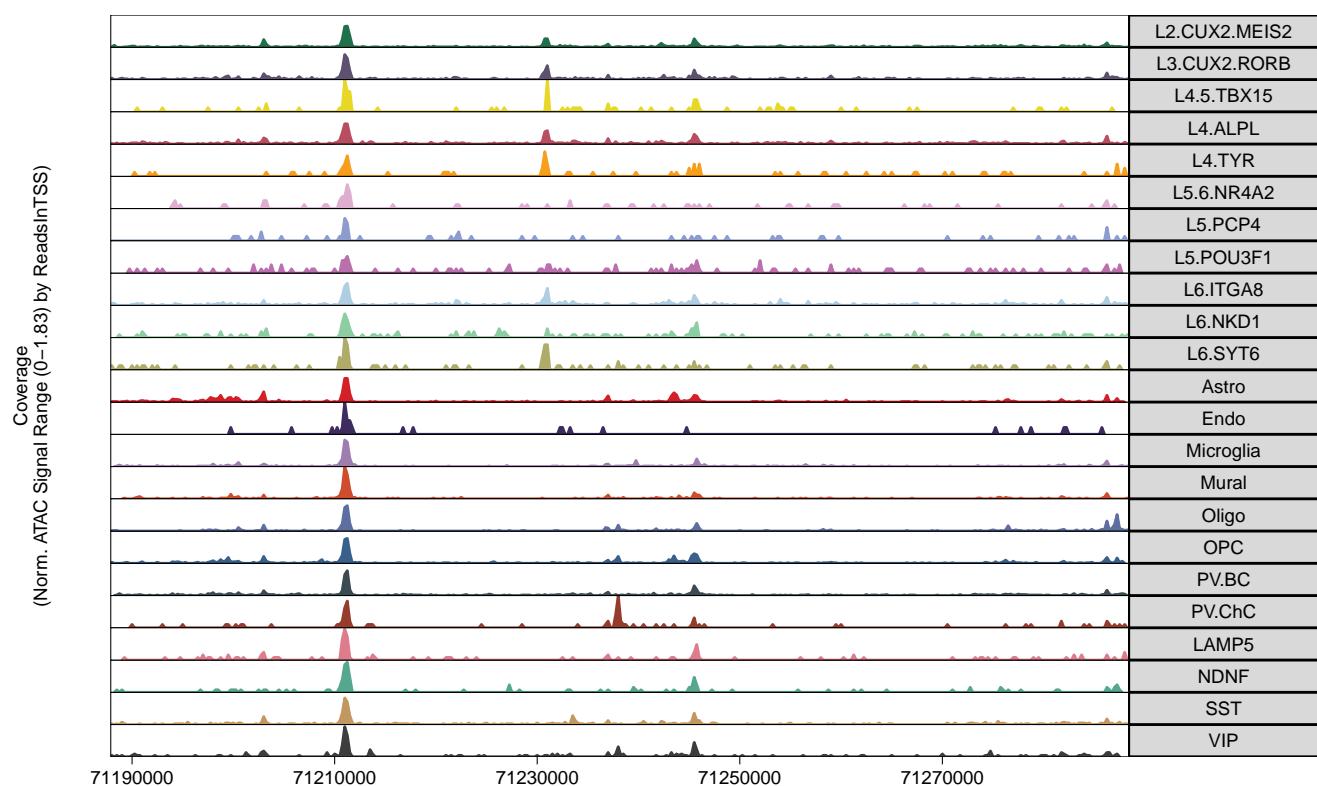
Peaks

LoopTrack

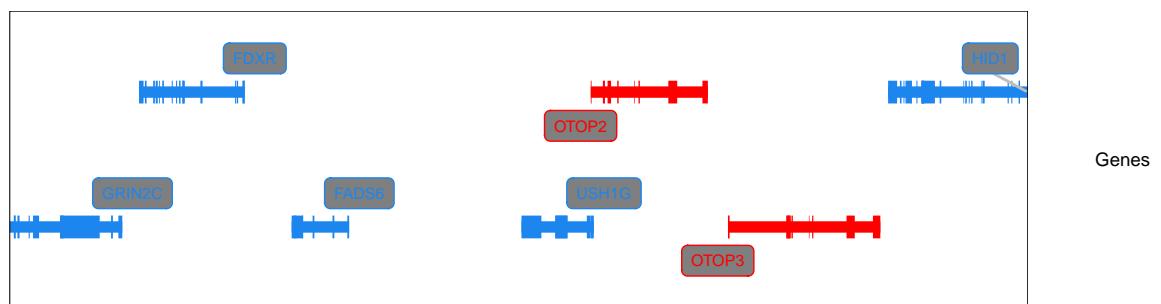
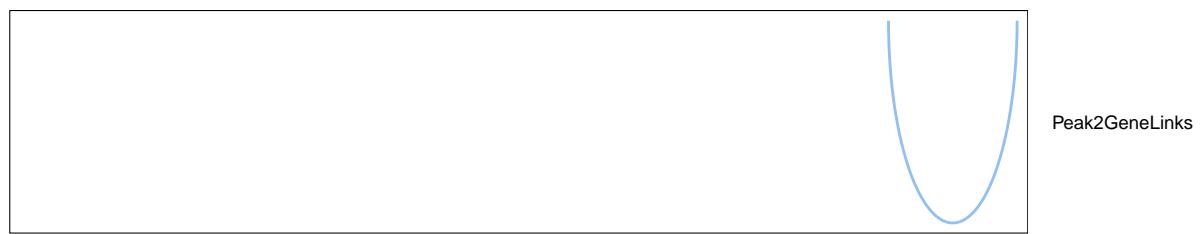
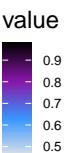
Genes

MYLK4

# chr16:71187896–71288397 Marker Peak Tracks for: VIP

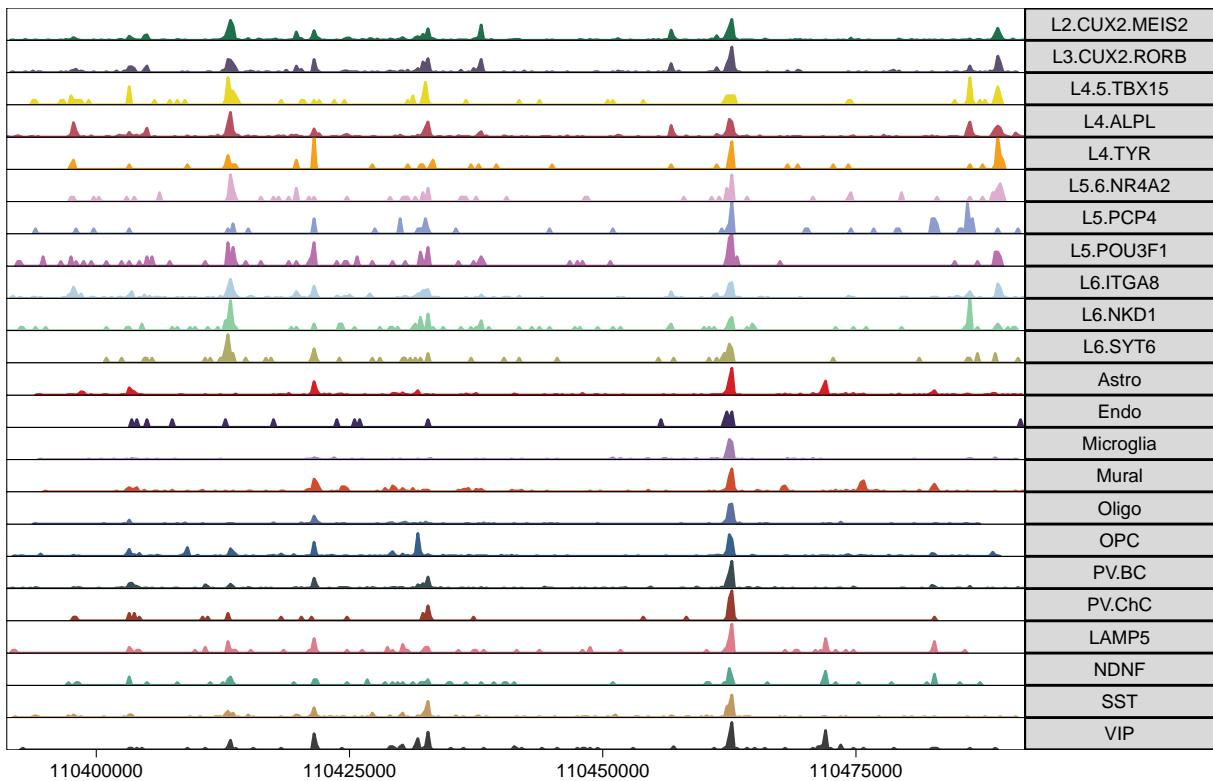


71190000      71210000      71230000      71250000      71270000

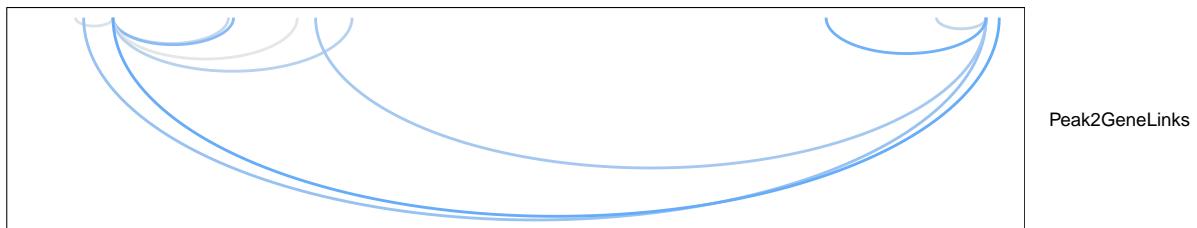


chr9:110391160–110491661 Marker Peak Tracks for: VIP

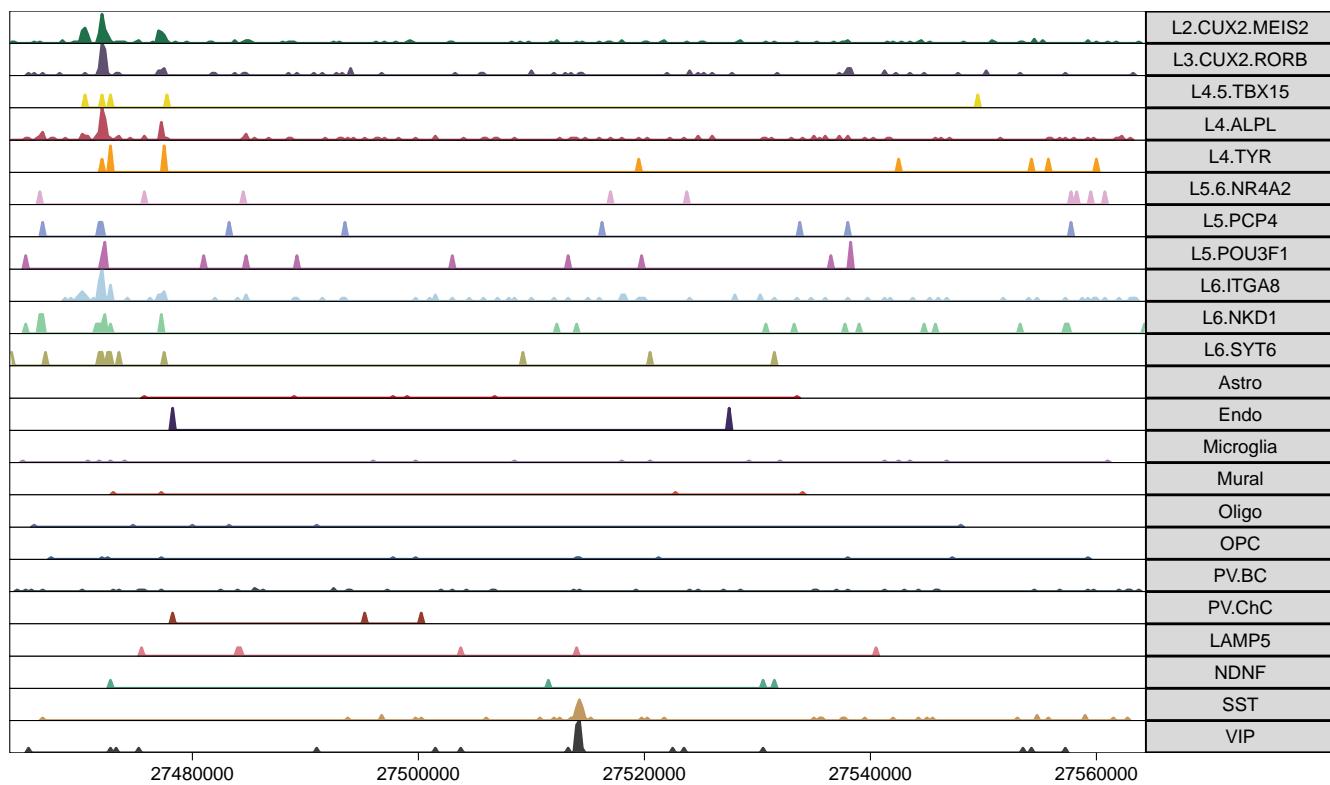
Coverage  
(Norm. ATAC Signal Range (0–1.64) by ReadsInTSS)



110400000 110425000 110450000 110475000



## chr6:27463837–27564338 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.5) by ReadsInTSS)

VIP

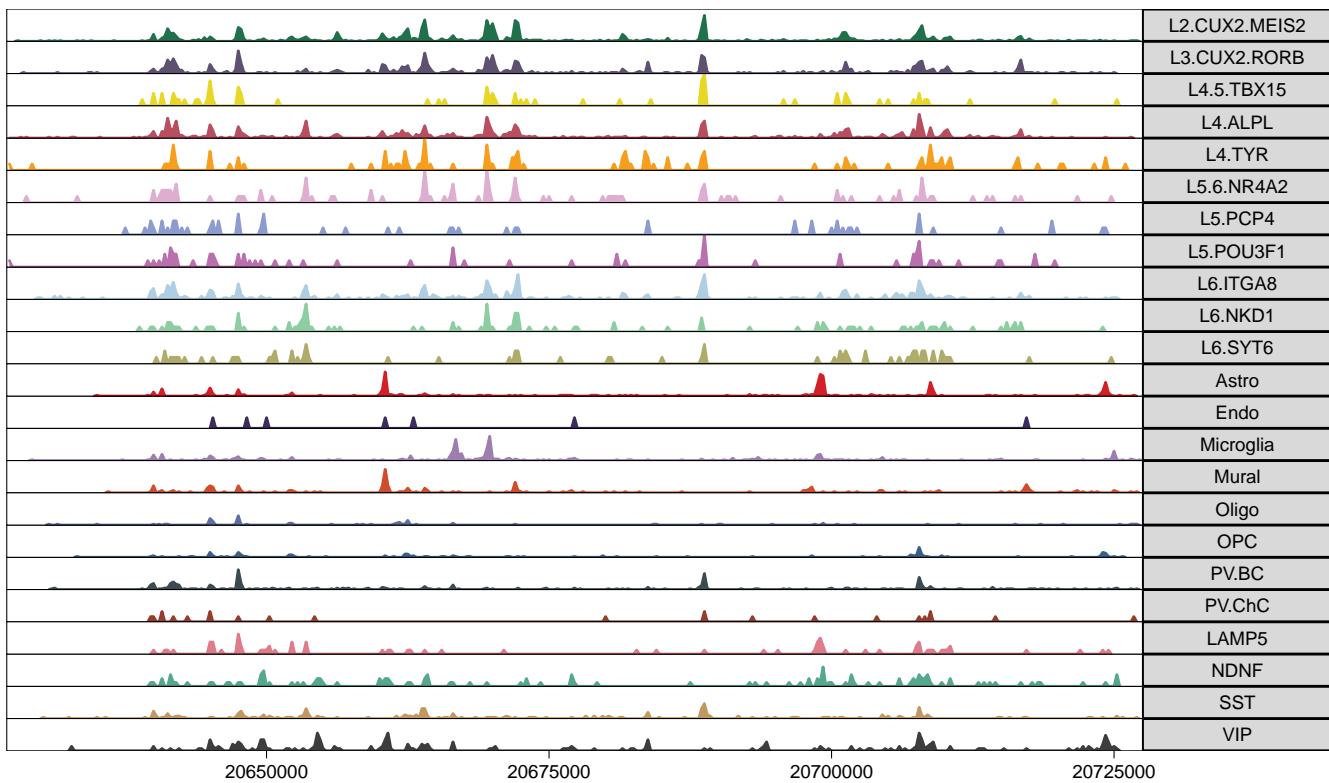
Peaks

LoopTrack

LOC105374695

Genes

## chr14:20627010–20727511 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.19) by ReadsInTSS)

VIP

Peaks

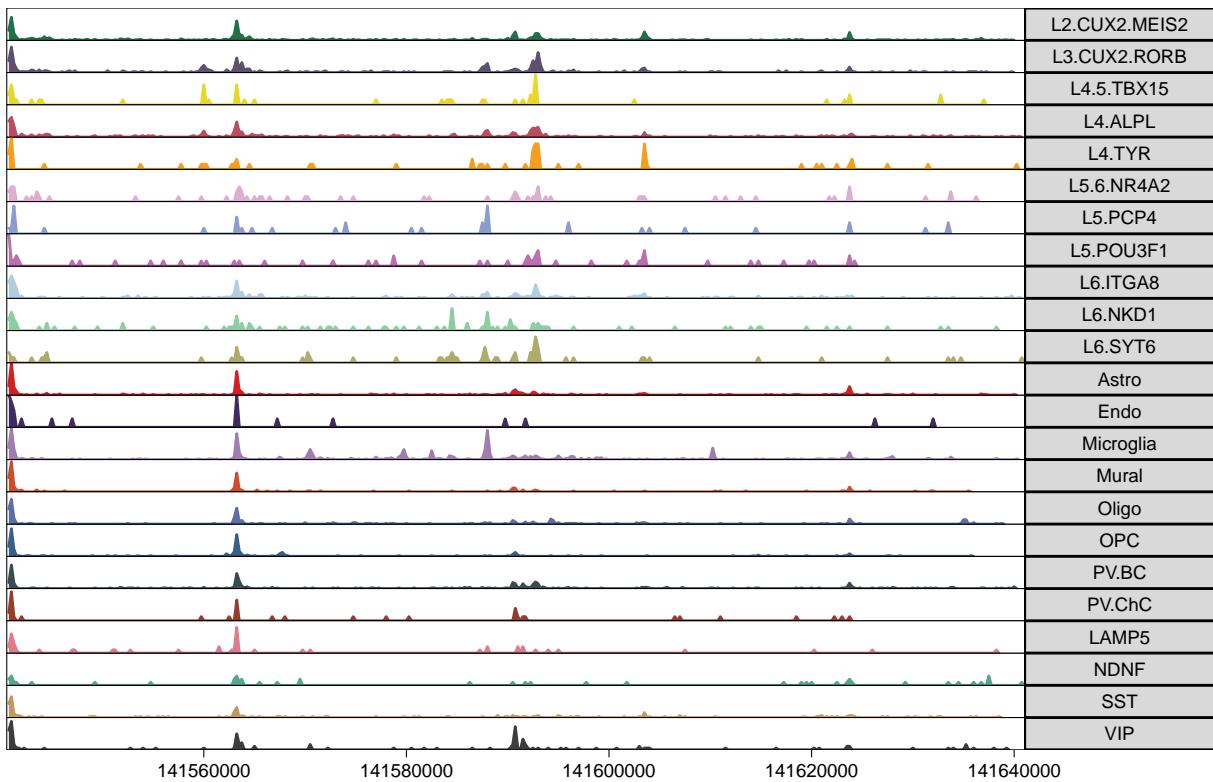
LoopTrack



Genes

chr2:141540542–141641043 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.48) by ReadsInTSS)

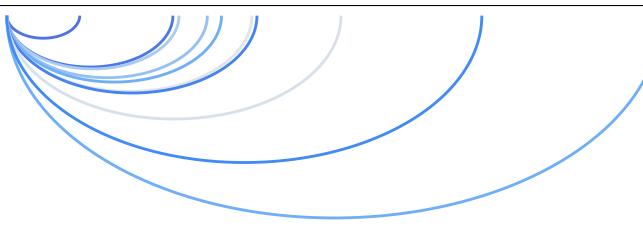


VIP

Peaks



Peak2GeneLinks



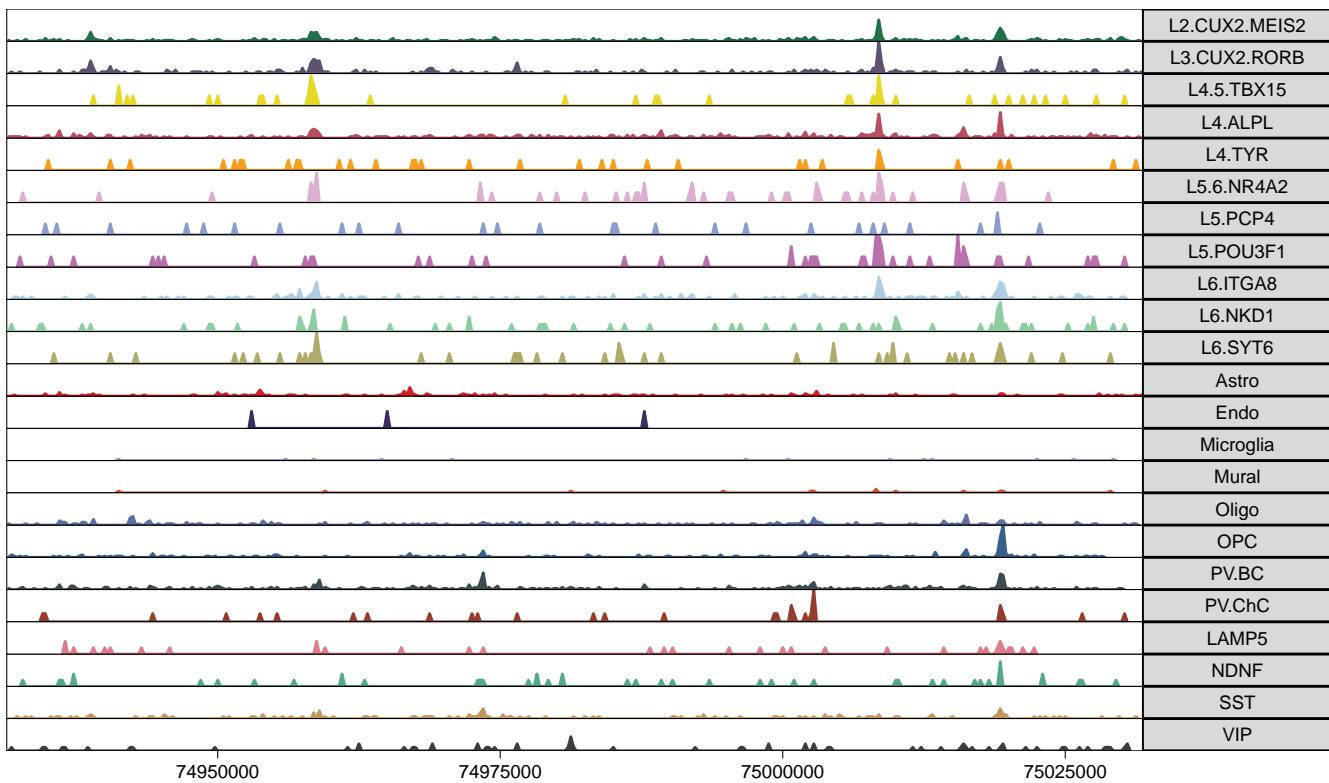
IRAK2

Genes



chr15:74931331–75031832 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.74) by ReadsInTSS)



VIP

Peaks

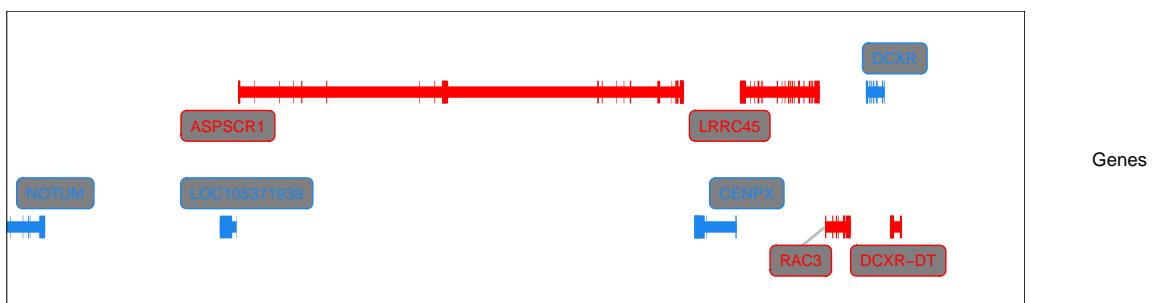
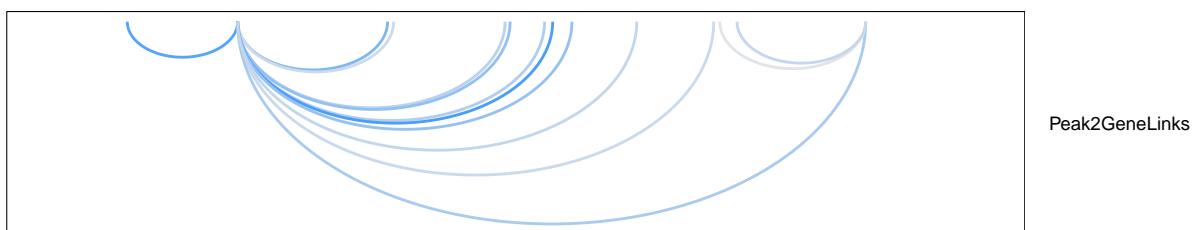
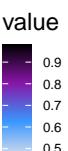
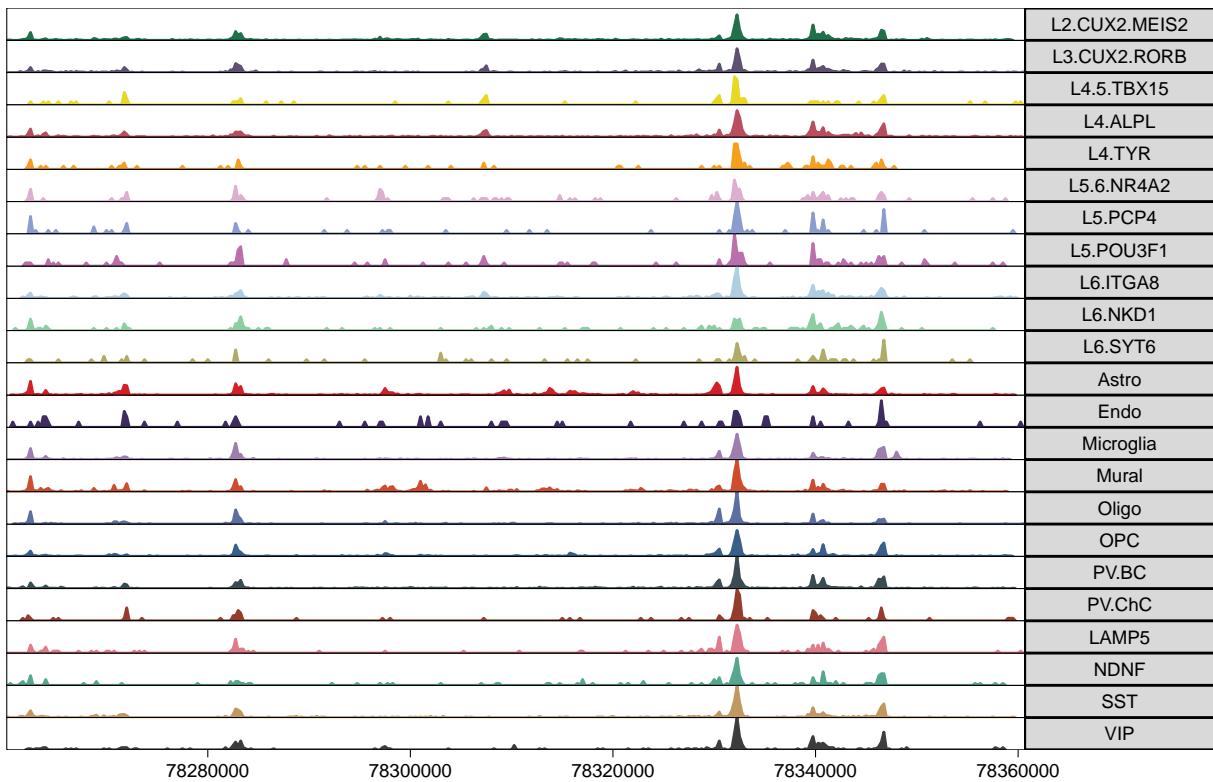
LoopTrack

Genes

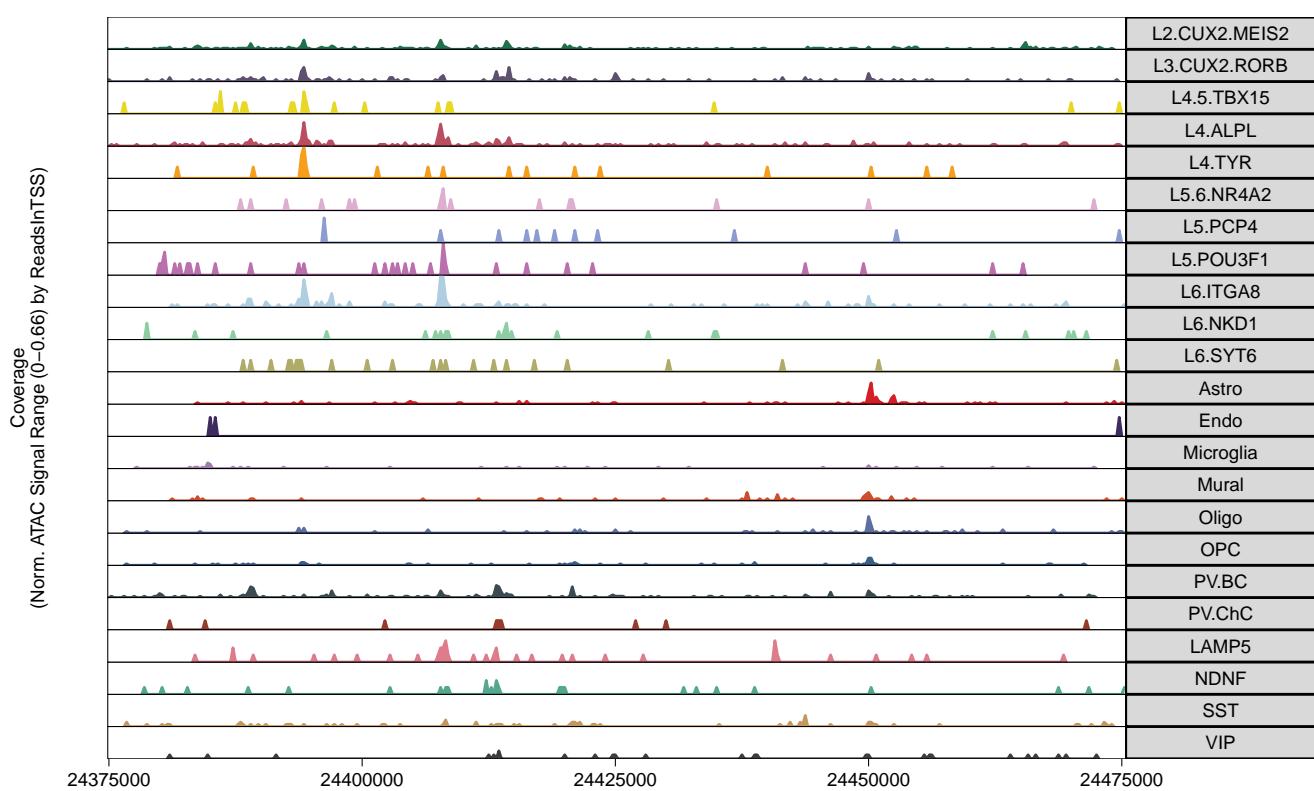
PTPRD

# chr16:78260151–78360652 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–2.37) by ReadsInTSS)



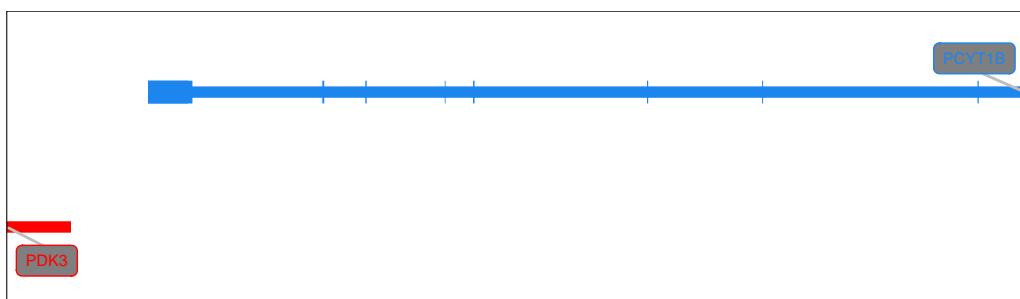
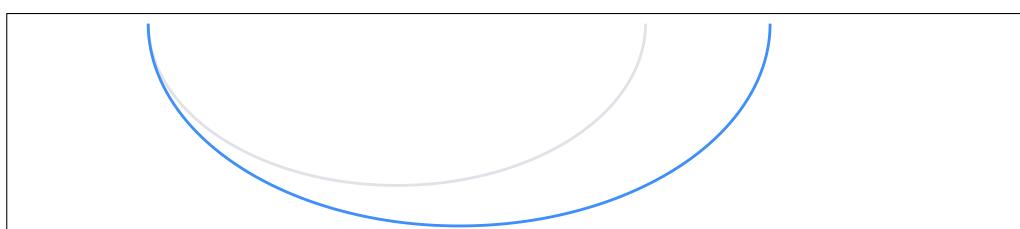
chrX:24374884–24475385 Marker Peak Tracks for: VIP



VIP - Peaks

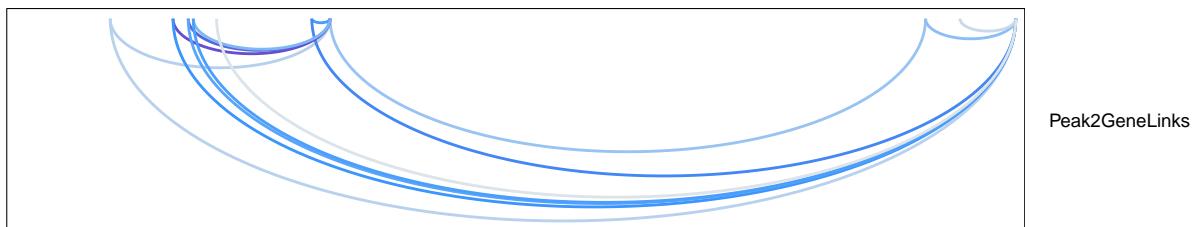
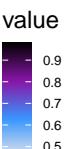
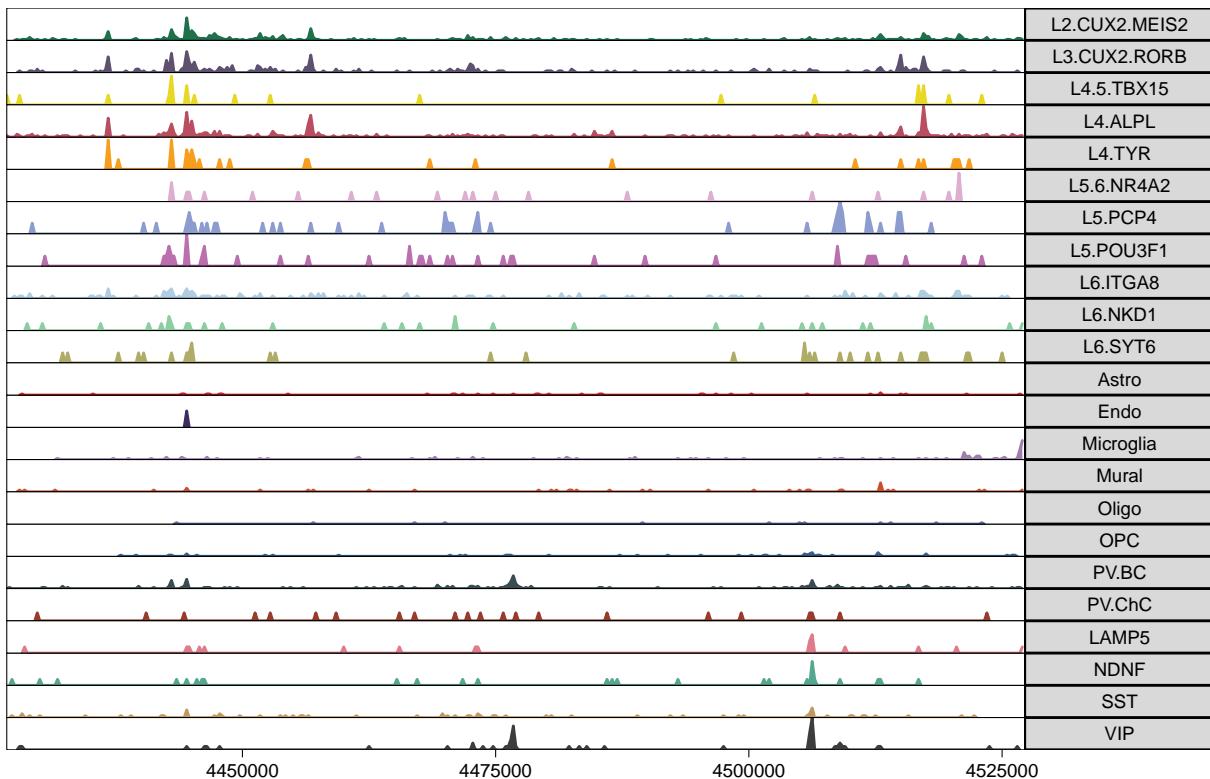


Peak2GeneLinks

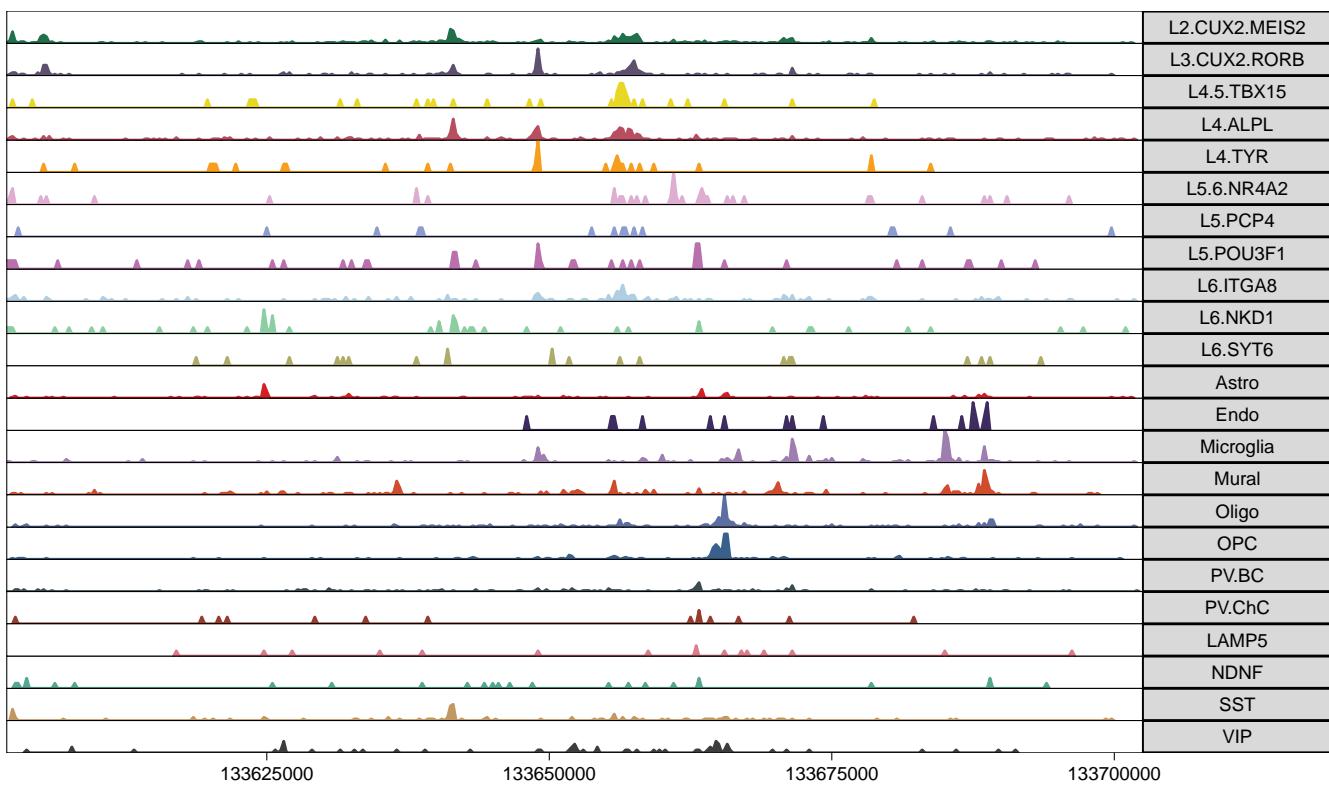


# chr11:4426734–4527235 Marker Peak Tracks for: VIP

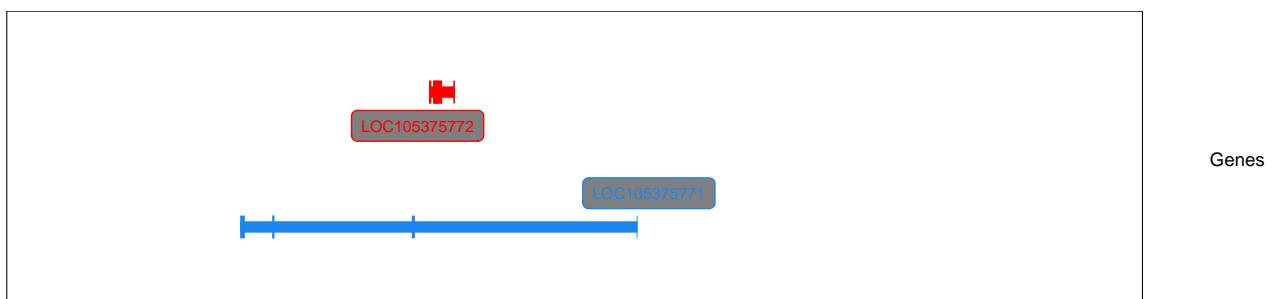
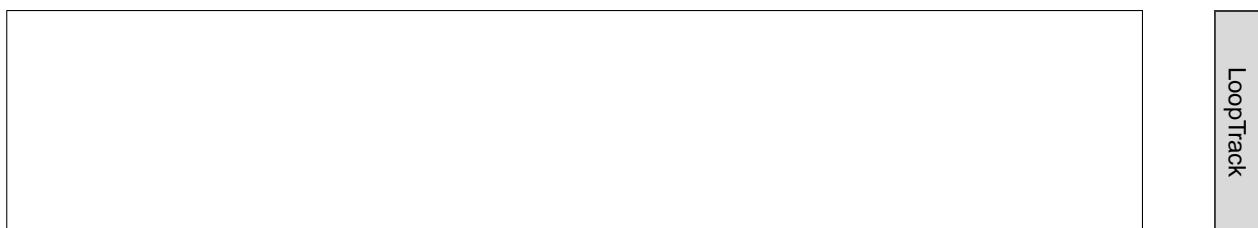
Coverage  
(Norm. ATAC Signal Range (0–0.7) by ReadsInTSS)



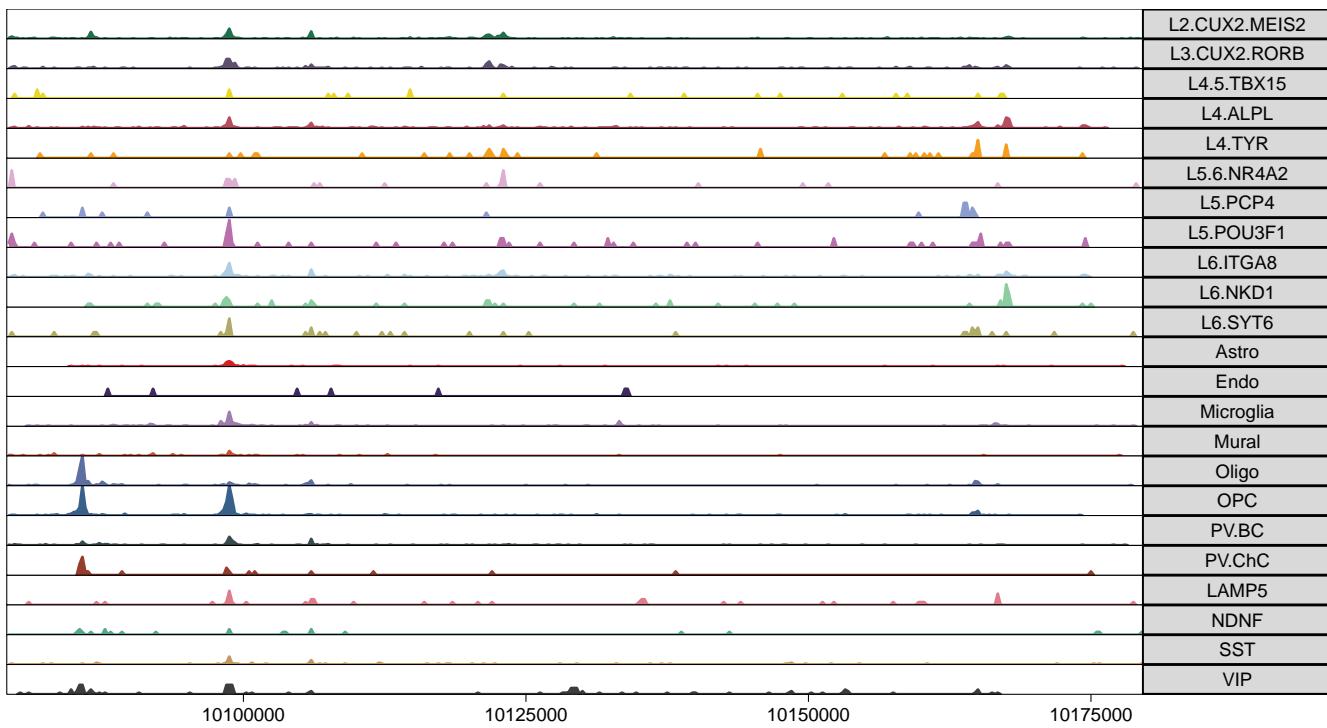
## chr8:133601989–133702490 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.91) by ReadInTSS)

133625000 133650000 133675000 133700000



## chr6:10079055–10179556 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.56) by ReadstIntSS)

VIP

Peaks

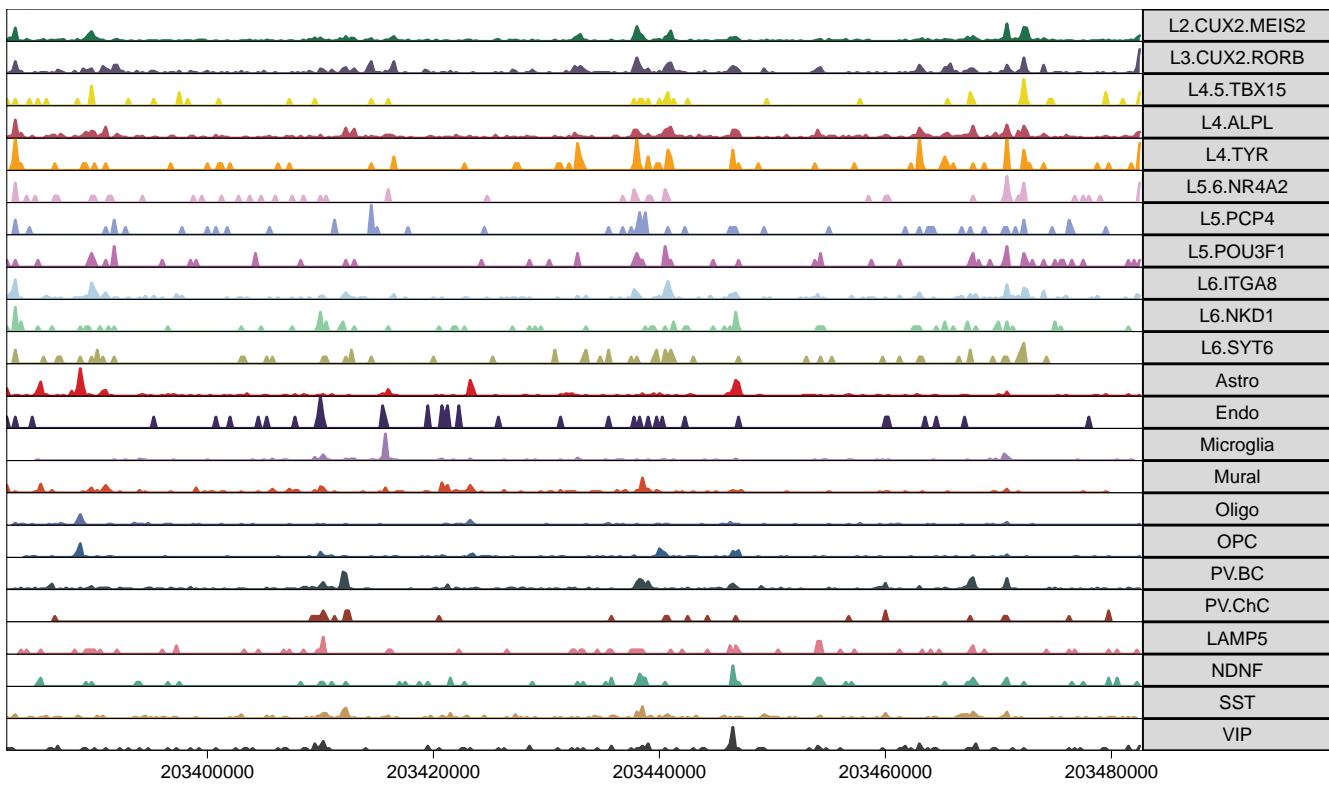
LoopTrack

GeneTrack

strand ● •

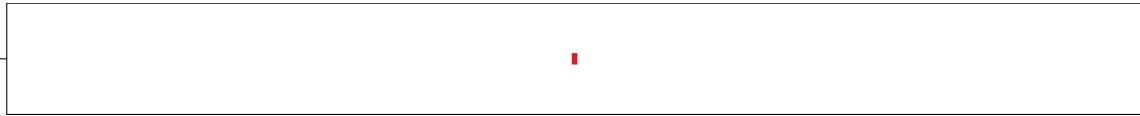
chr1:203382241–203482742 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0-1.1) by ReadsInTSS)

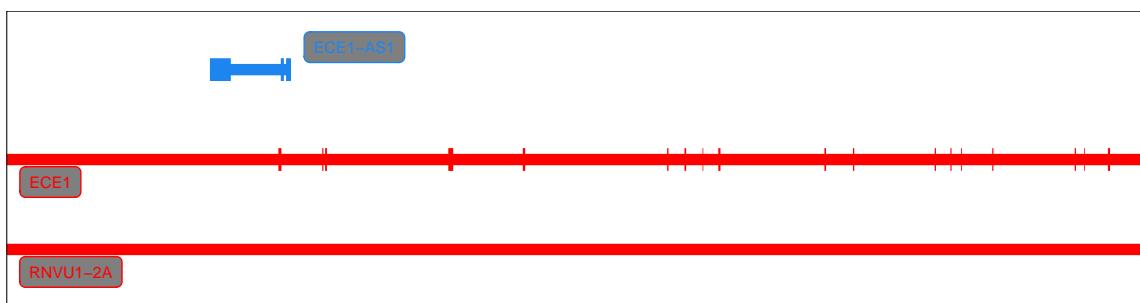
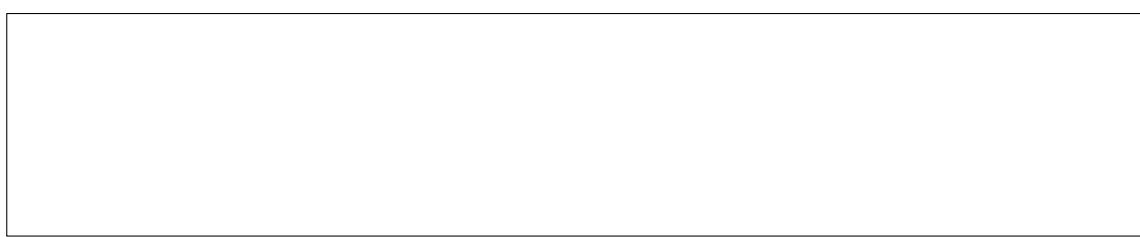


VIP

Peaks

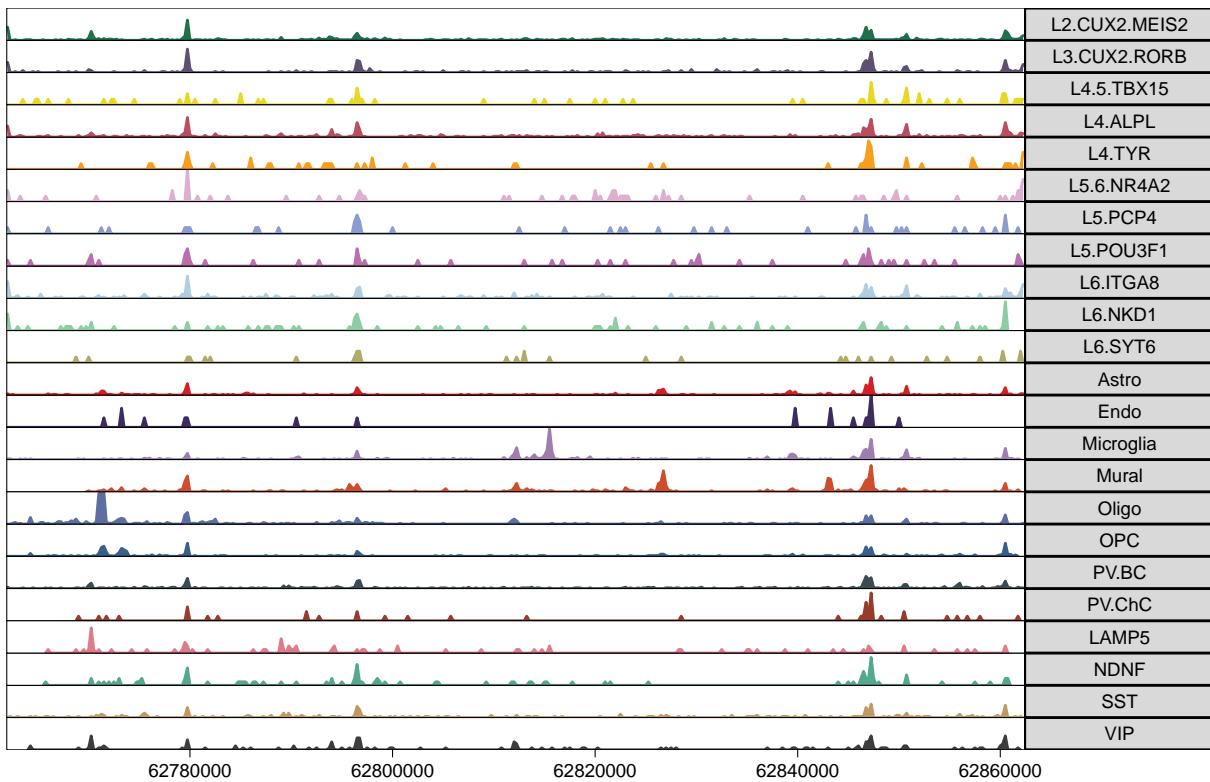


LoopTrack

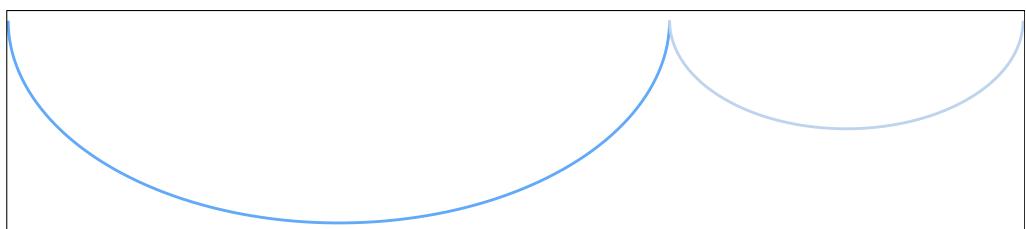


chr1:62761912–62862413 Marker Peak Tracks for: VIP

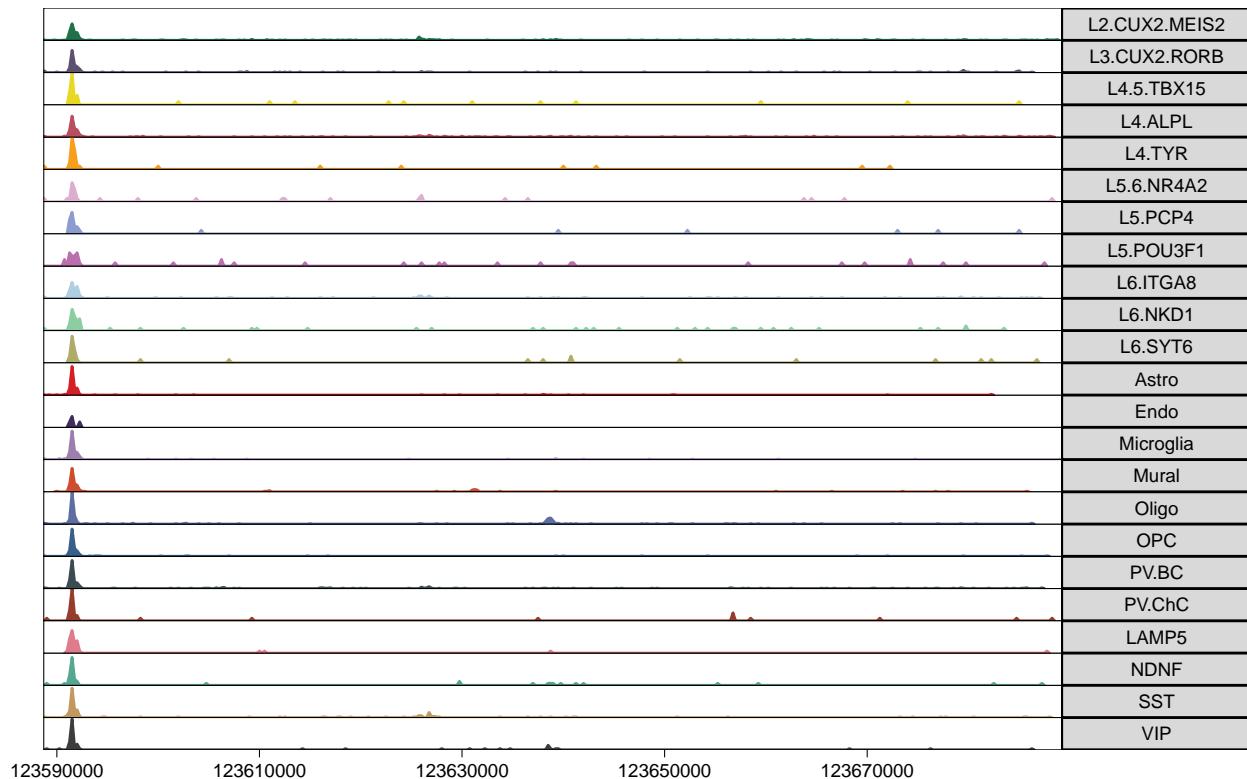
Coverage  
(Norm. ATAC Signal Range (0–1.32) by ReadsInTSS)



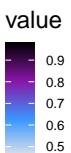
Peak2GeneLinks



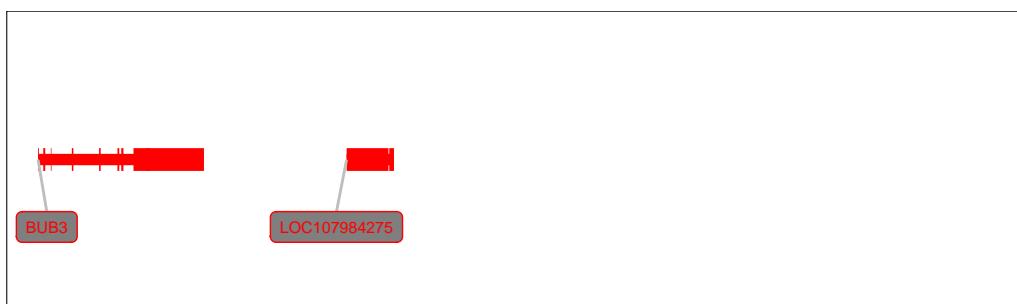
## chr9:123588704–123689205 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0-2.3) by ReadsInTSS)

123590000 123610000 123630000 123650000 123670000

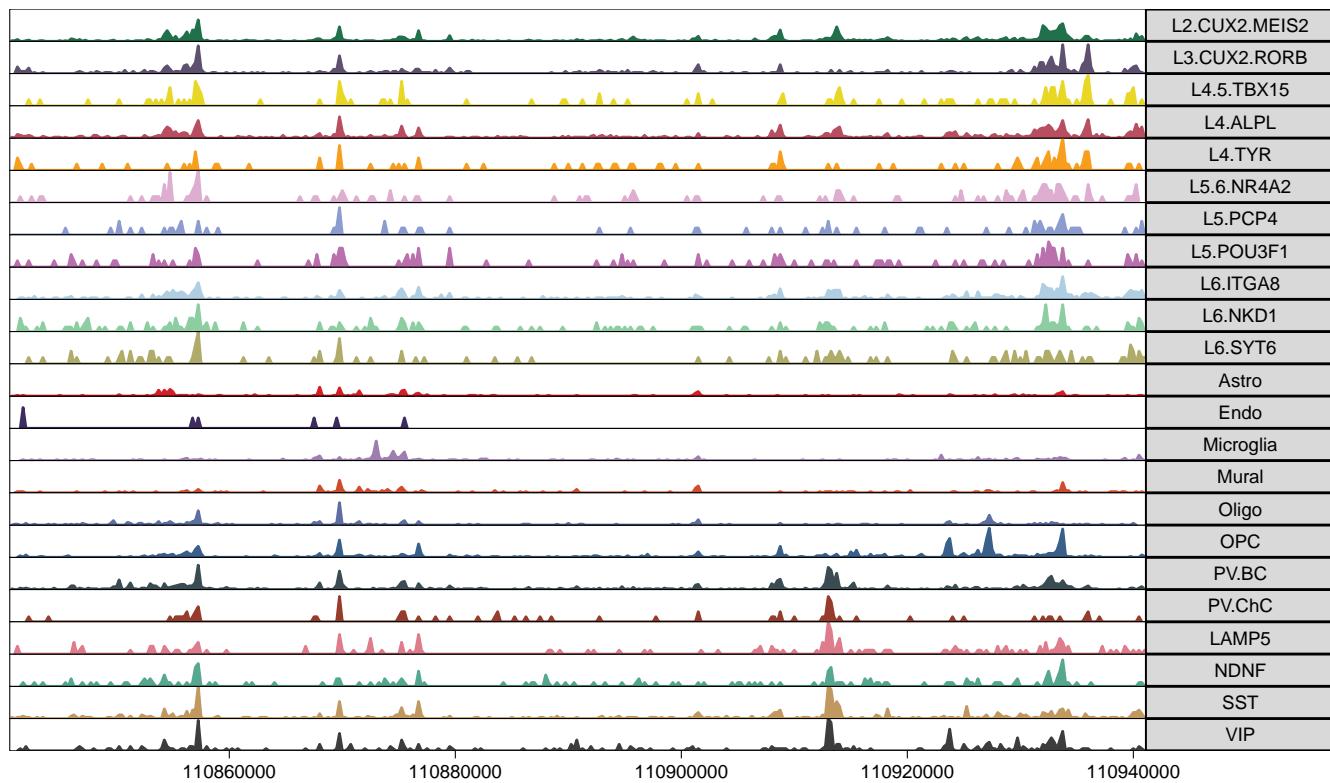


Peak2GeneLinks



chr14:110840570–110941071 Marker Peak Tracks for: VIP

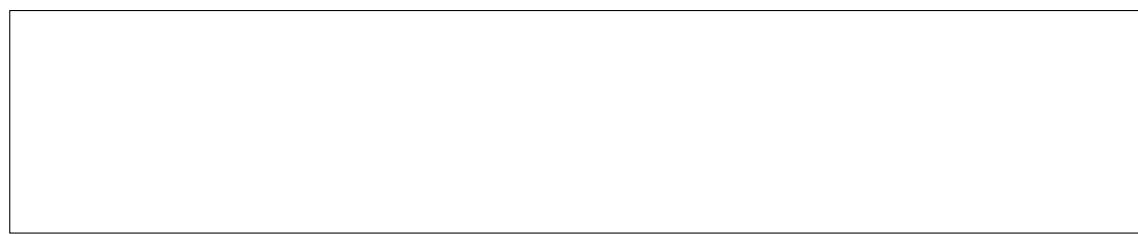
Coverage  
(Norm. ATAC Signal Range (0–1.21) by ReadsInTSS)



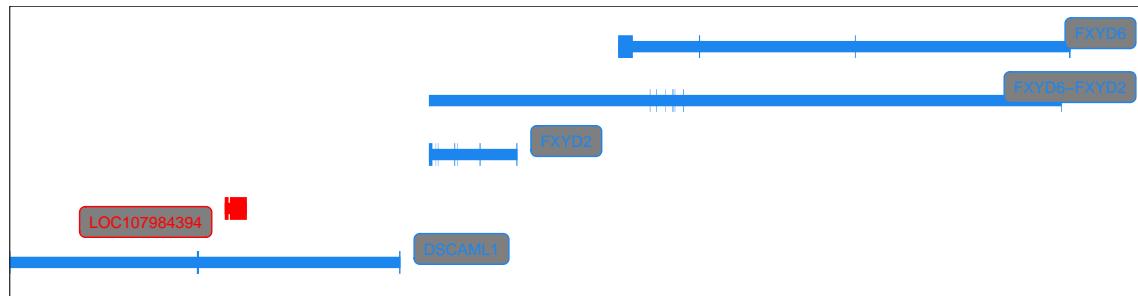
VIP

Peaks

LoopTrack

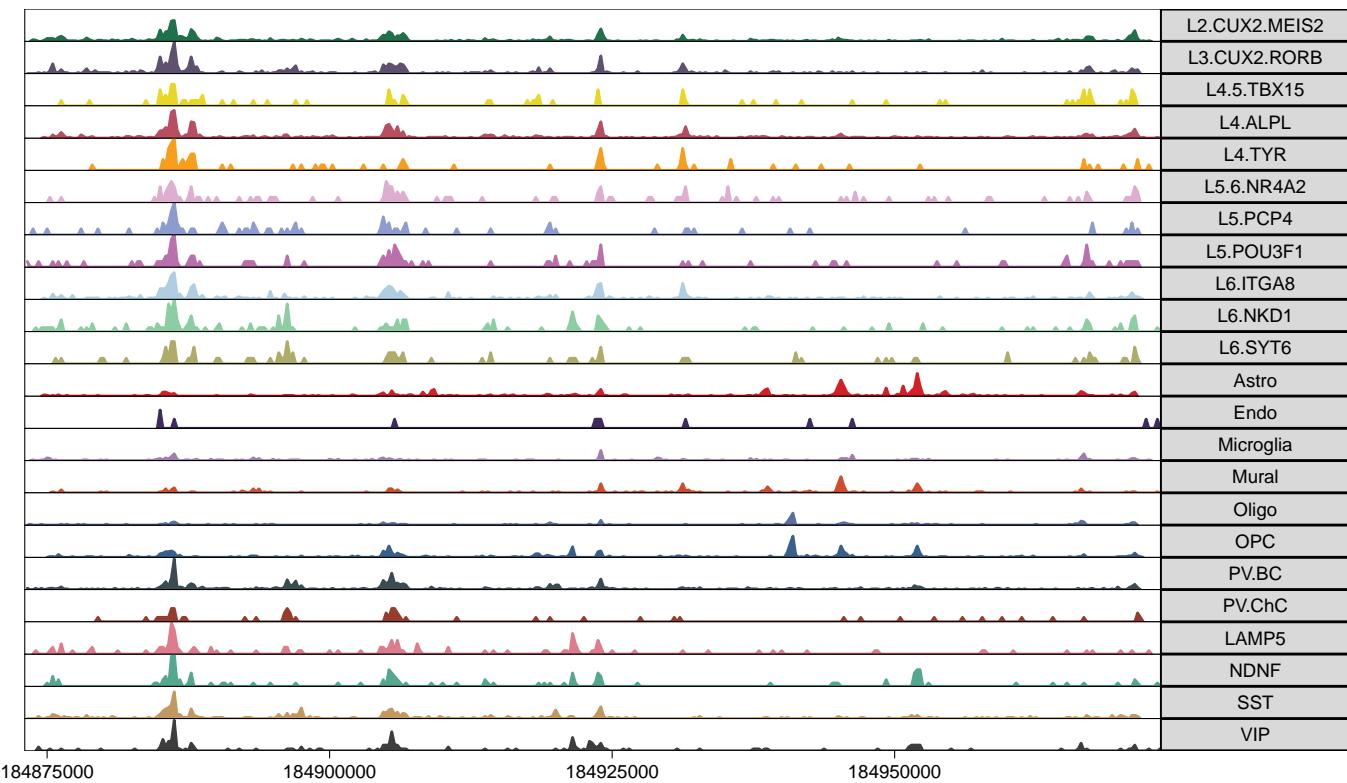


Genes

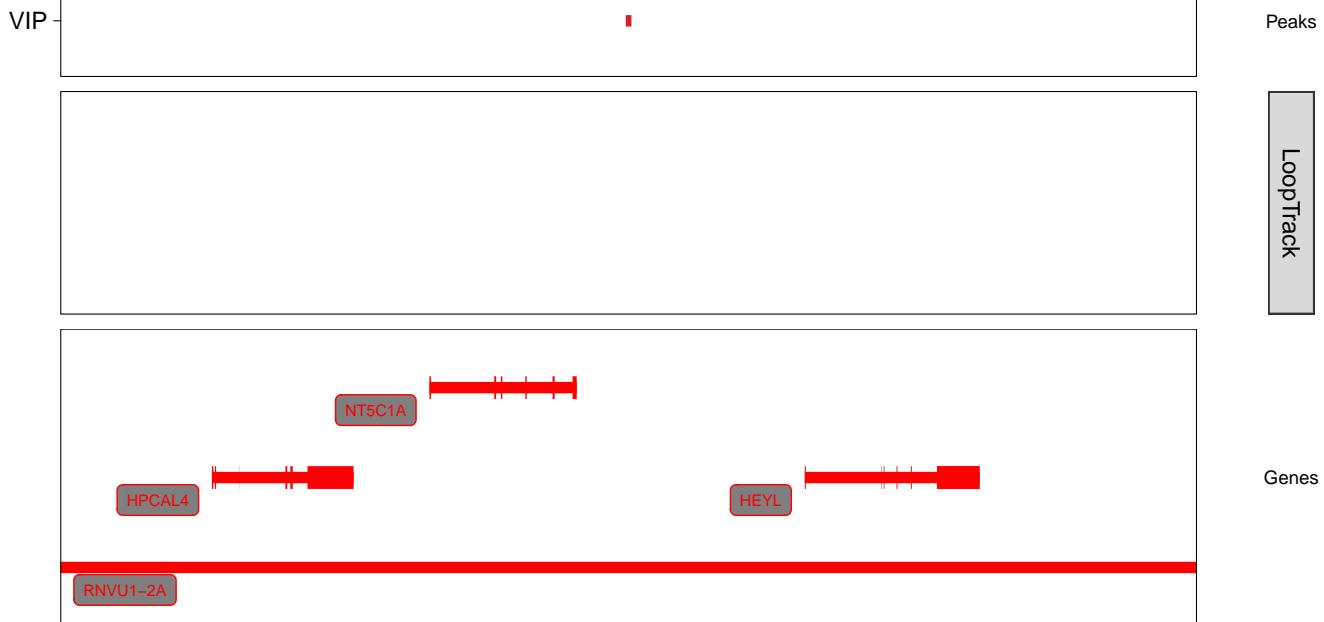


## chr1:184873021–184973522 Marker Peak Tracks for: VIP

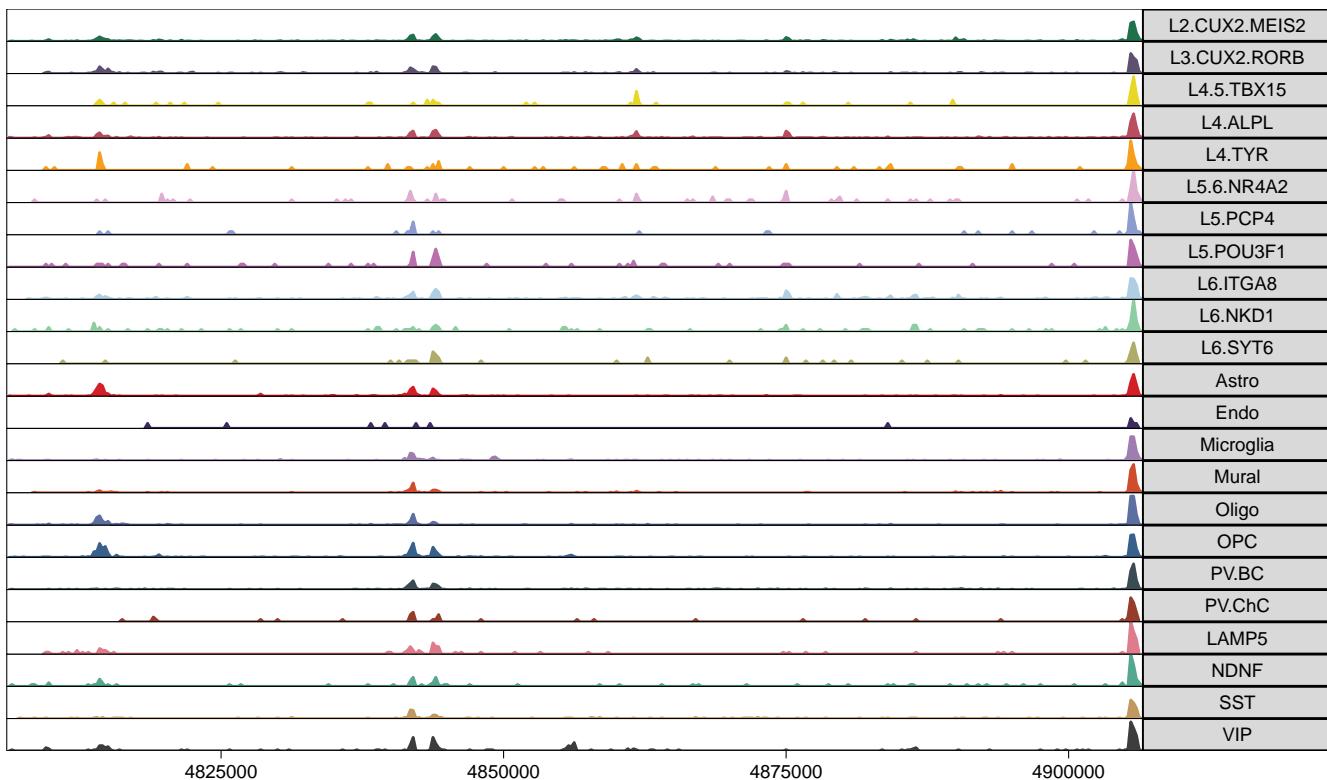
Coverage (Norm. ATAC Signal Range (0–1.38) by ReadsInTSS)



184875000 184900000 184925000 184950000



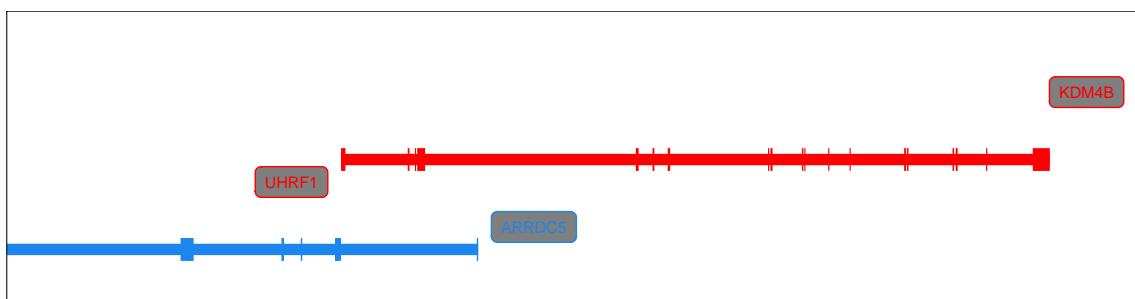
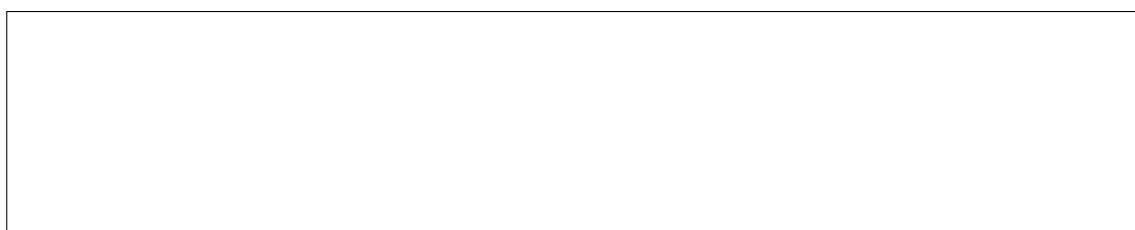
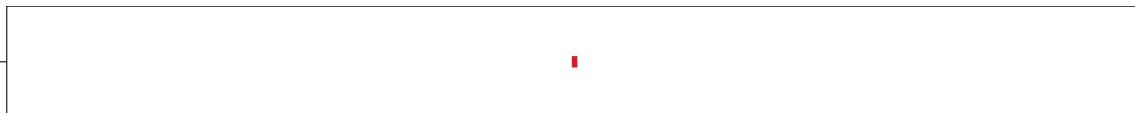
## chr19:4806033–4906534 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–2.55) by ReadsInTSS)

VIP

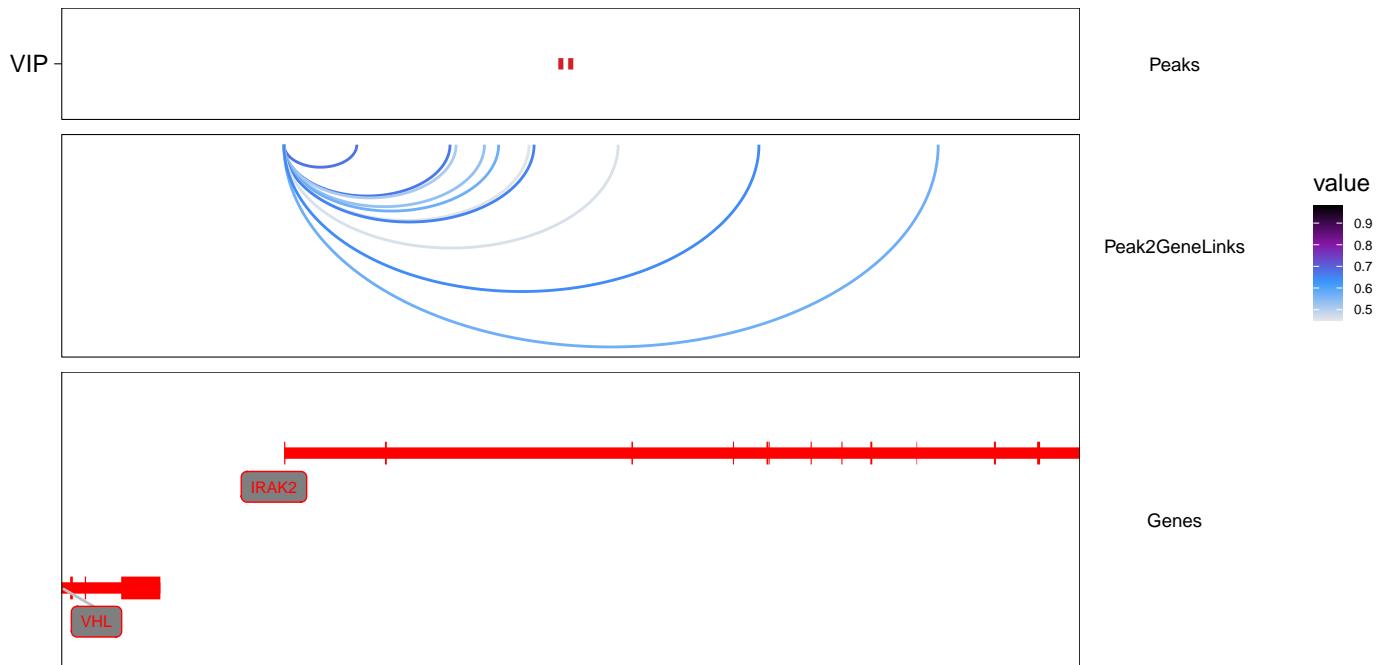
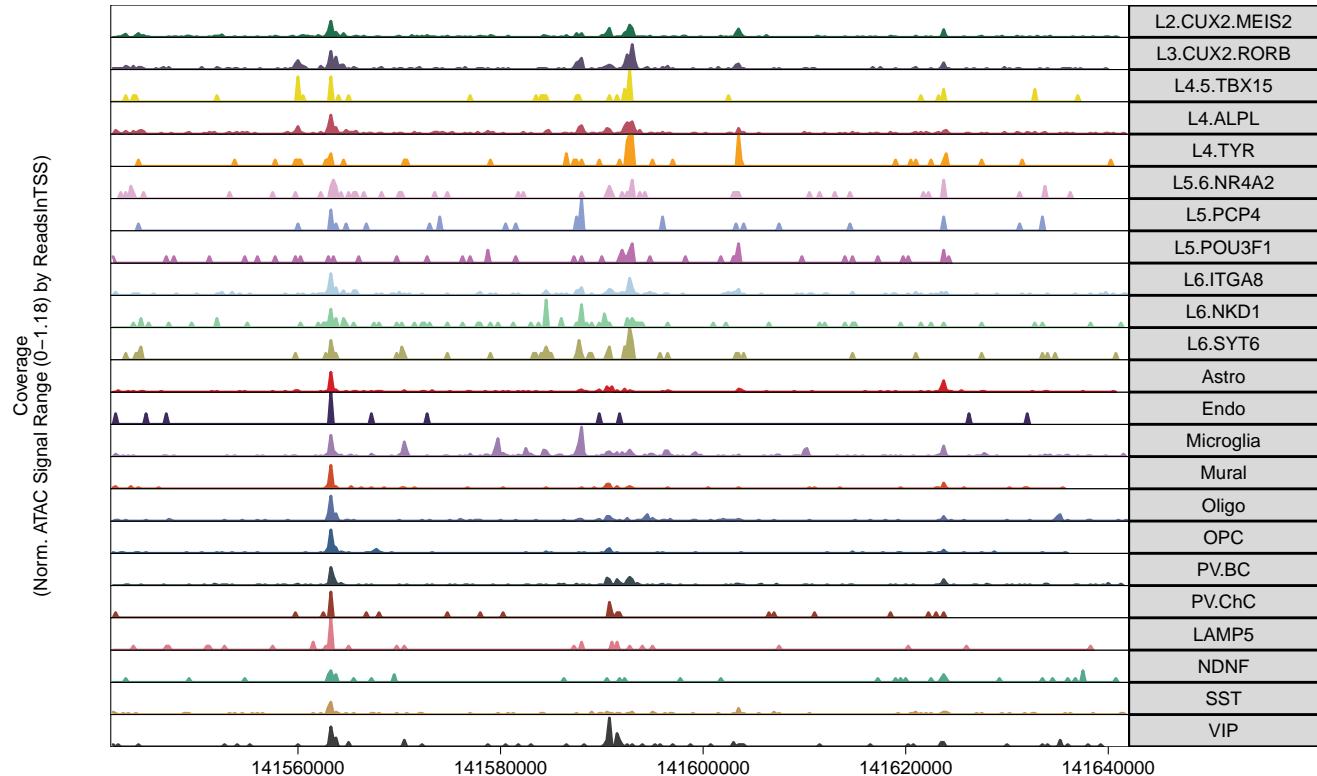
Peaks

LoopTrack

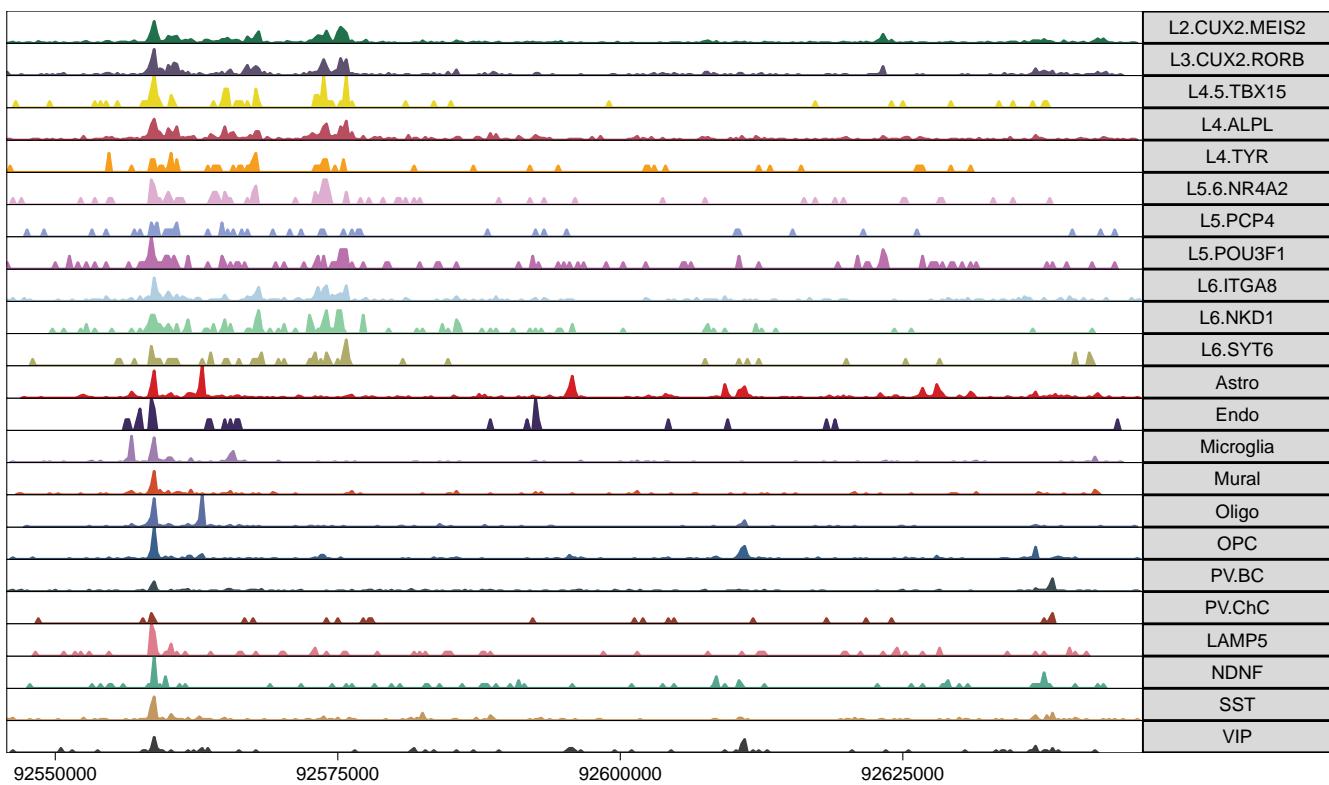


Genes

chr2:141541517–141642018 Marker Peak Tracks for: VIP

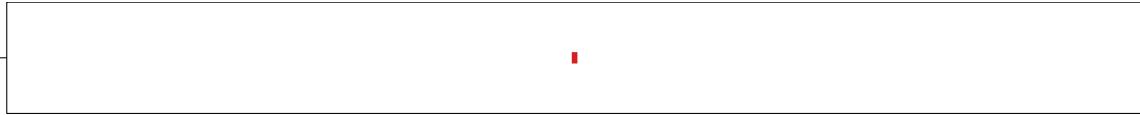


## chr10:92545704–92646205 Marker Peak Tracks for: VIP

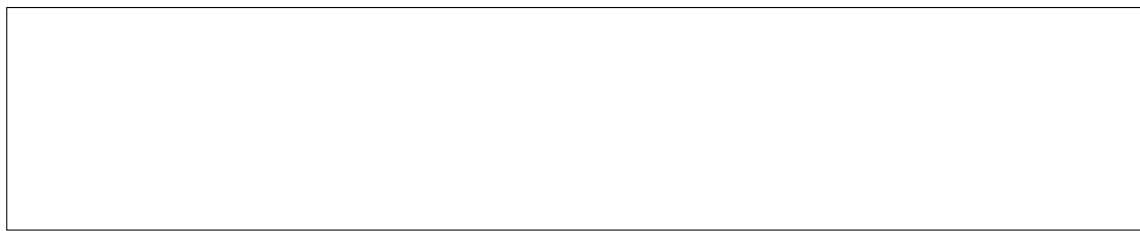
Coverage  
(Norm. ATAC Signal Range (0–1.18) by ReadsInTSS)

VIP

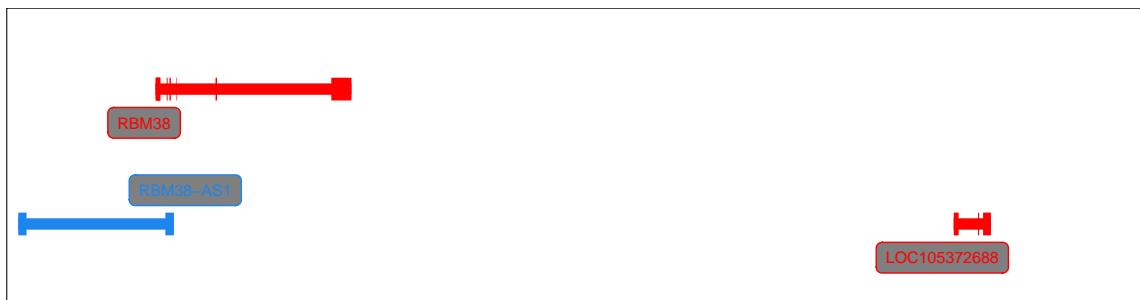
Peaks



LoopTrack

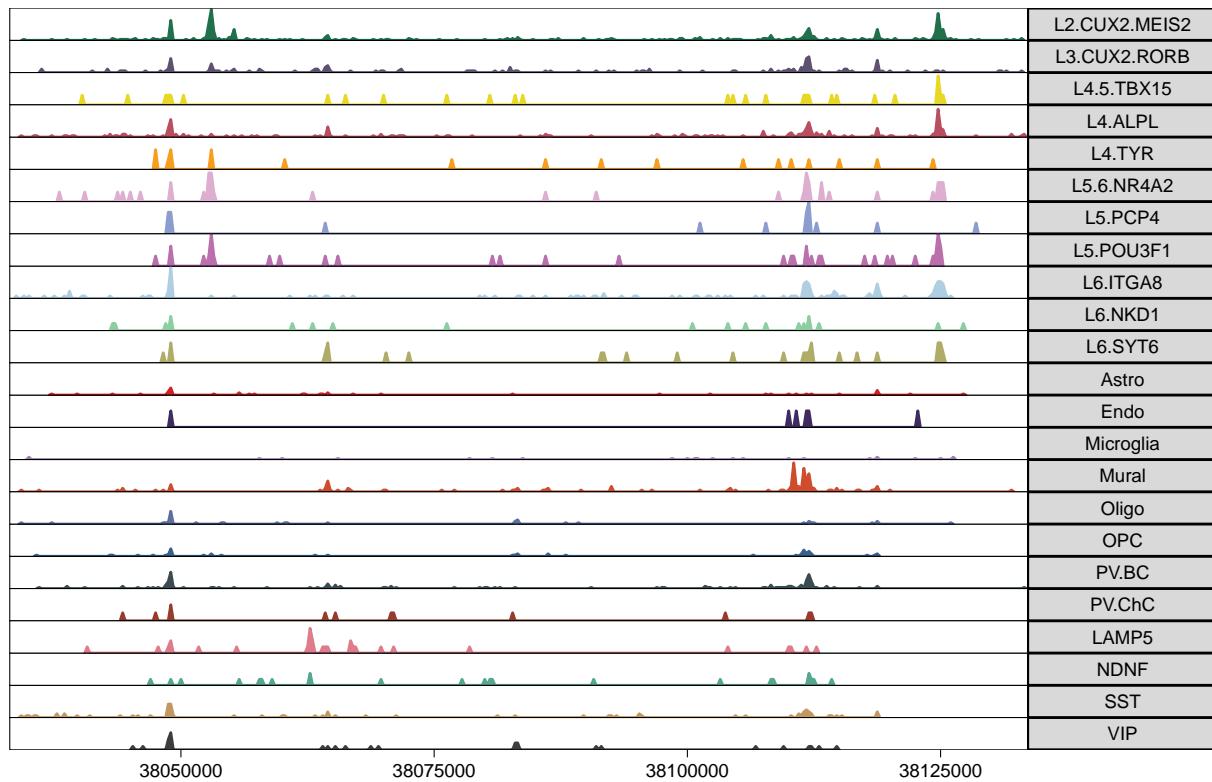


Genes



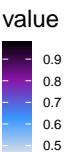
chr6:38033100–38133601 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.7) by ReadInTSS)

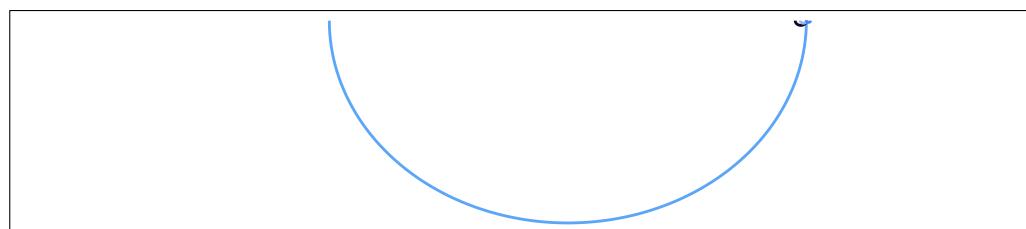


38050000 38075000 38100000 38125000

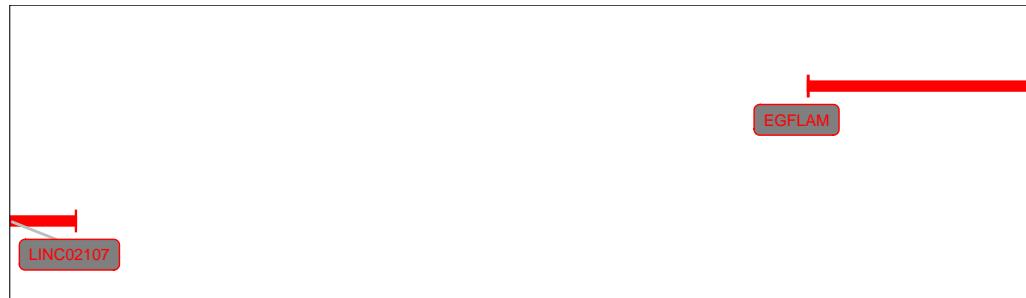
VIP - Peaks



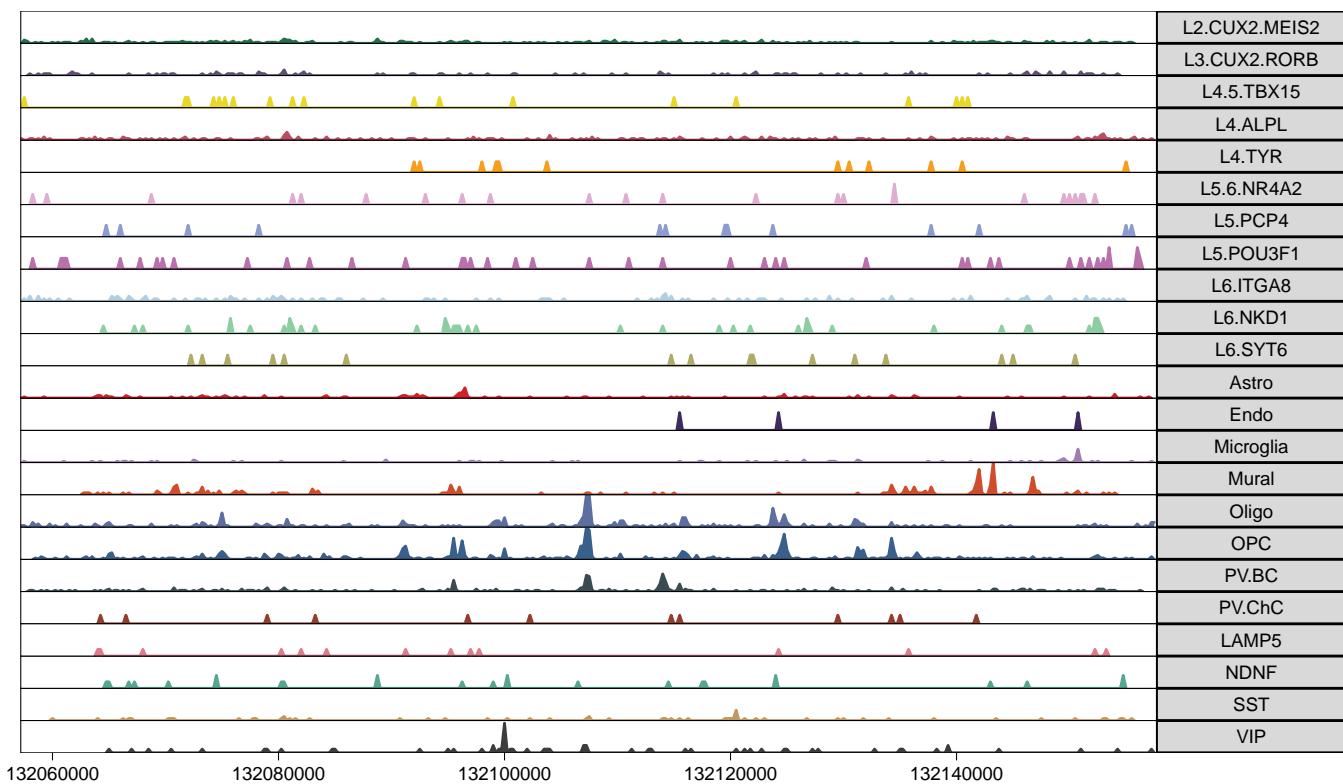
Peak2GeneLinks



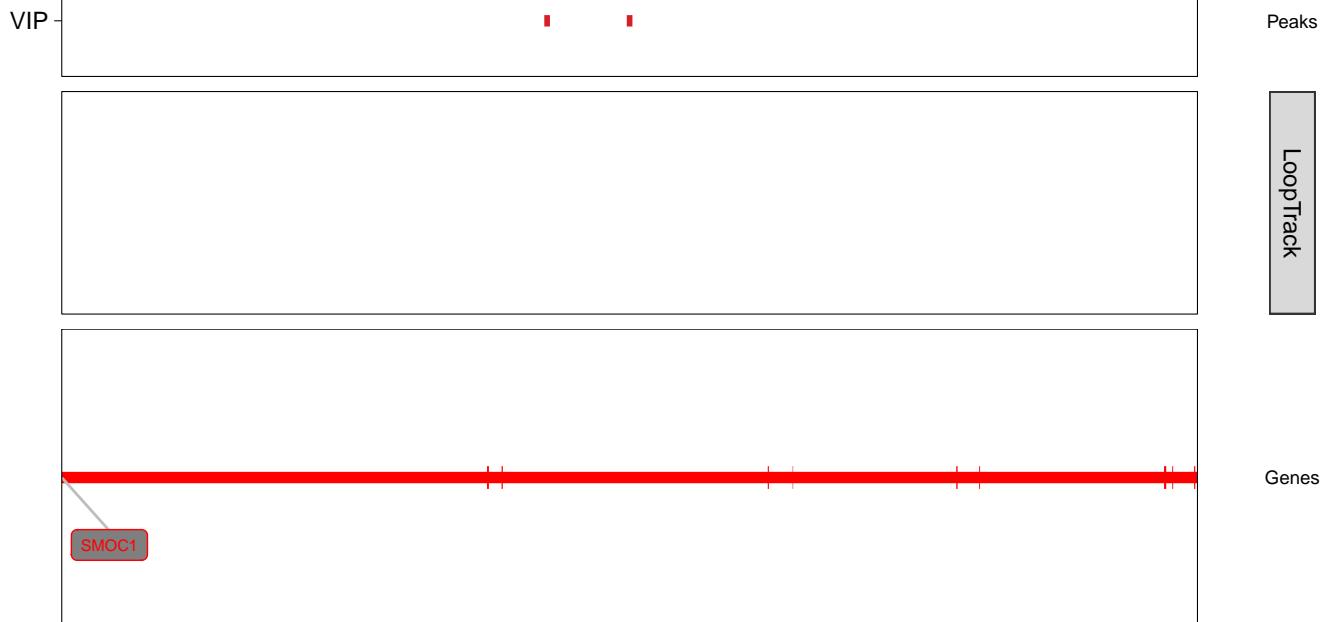
Genes



## chr7:132057190–132157691 Marker Peak Tracks for: VIP

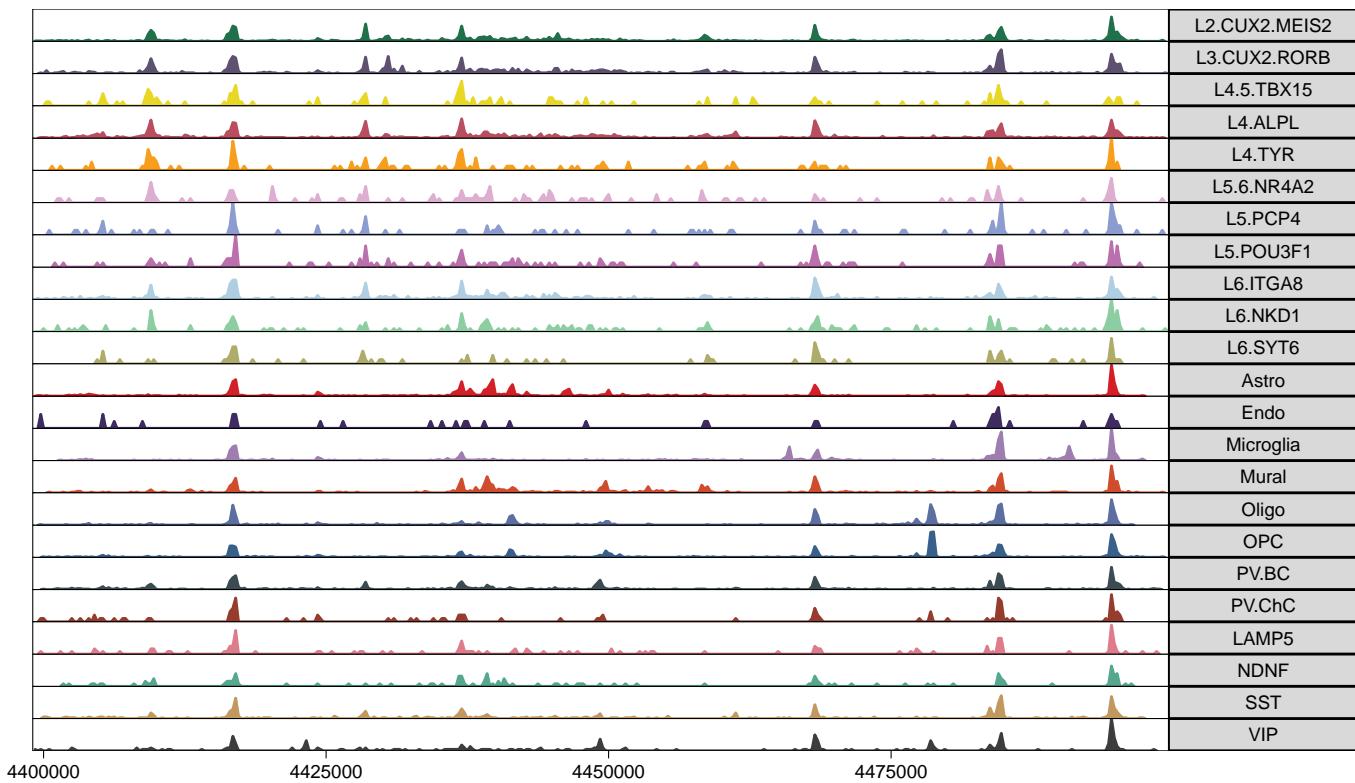
Coverage  
(Norm. ATAC Signal Range (0–0.7) by ReadsInTSS)

132060000 132080000 132100000 132120000 132140000



## chr20:4399041–4499542 Marker Peak Tracks for: VIP

Coverage (Norm. ATAC Signal Range (0-1.81) by ReadsInTSS)



VIP

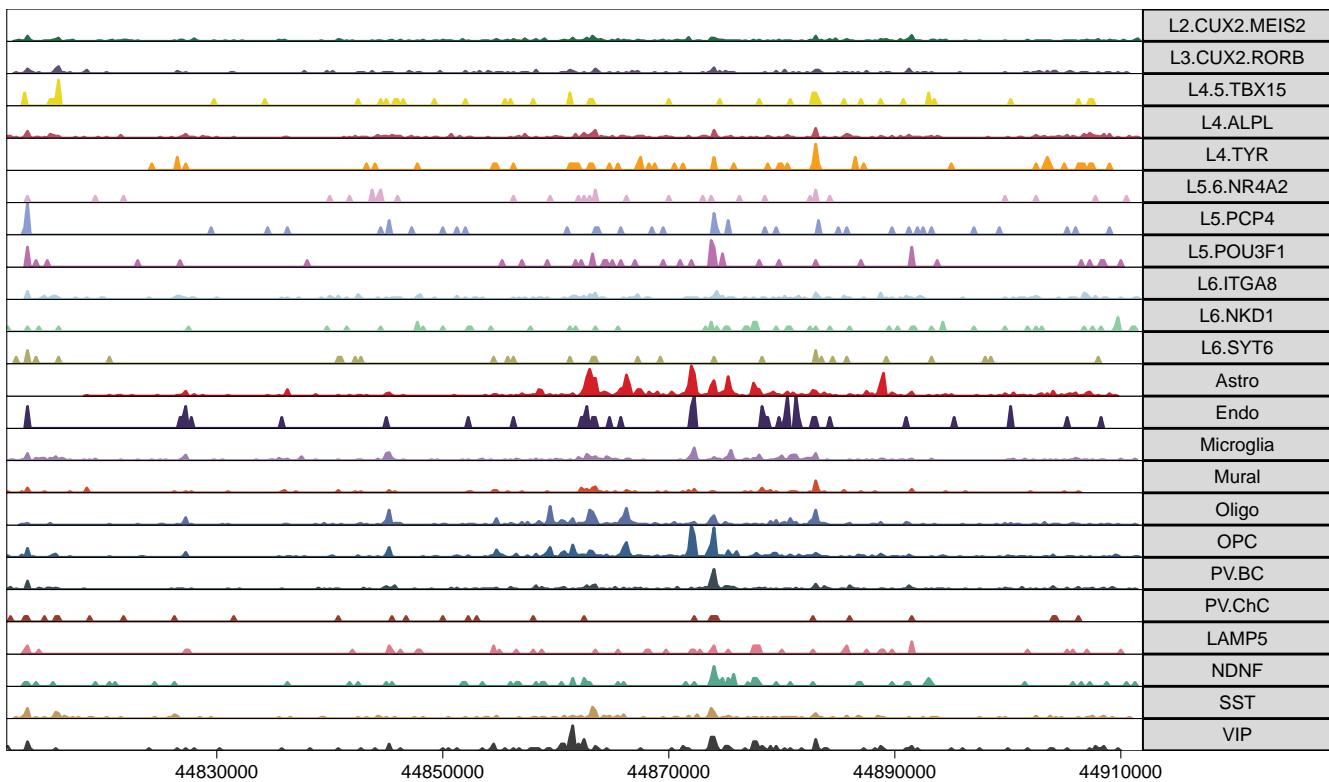
Peaks

LoopTrack

Genes



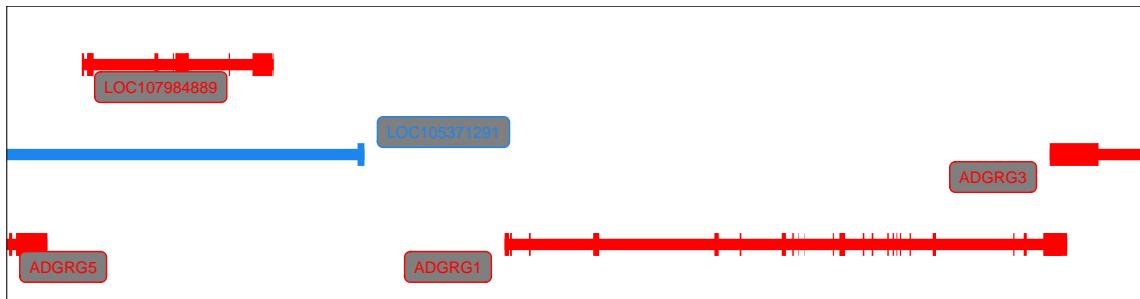
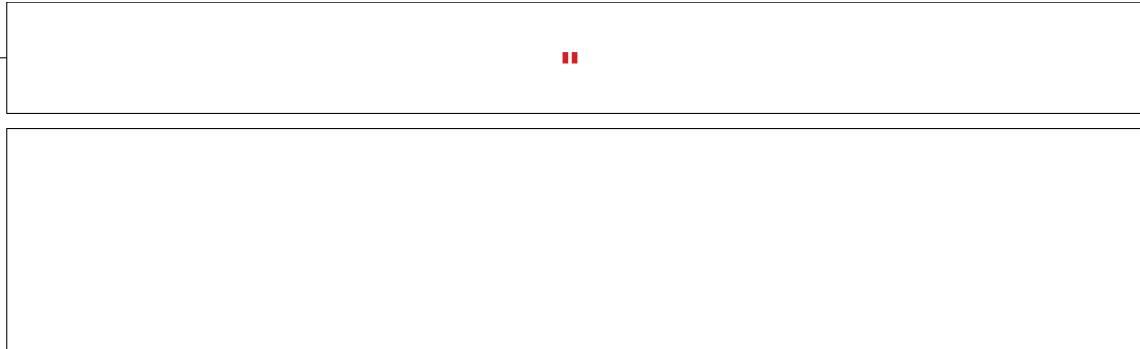
## chr20:44811413–44911914 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.15) by ReadsInTSS)

VIP

Peaks

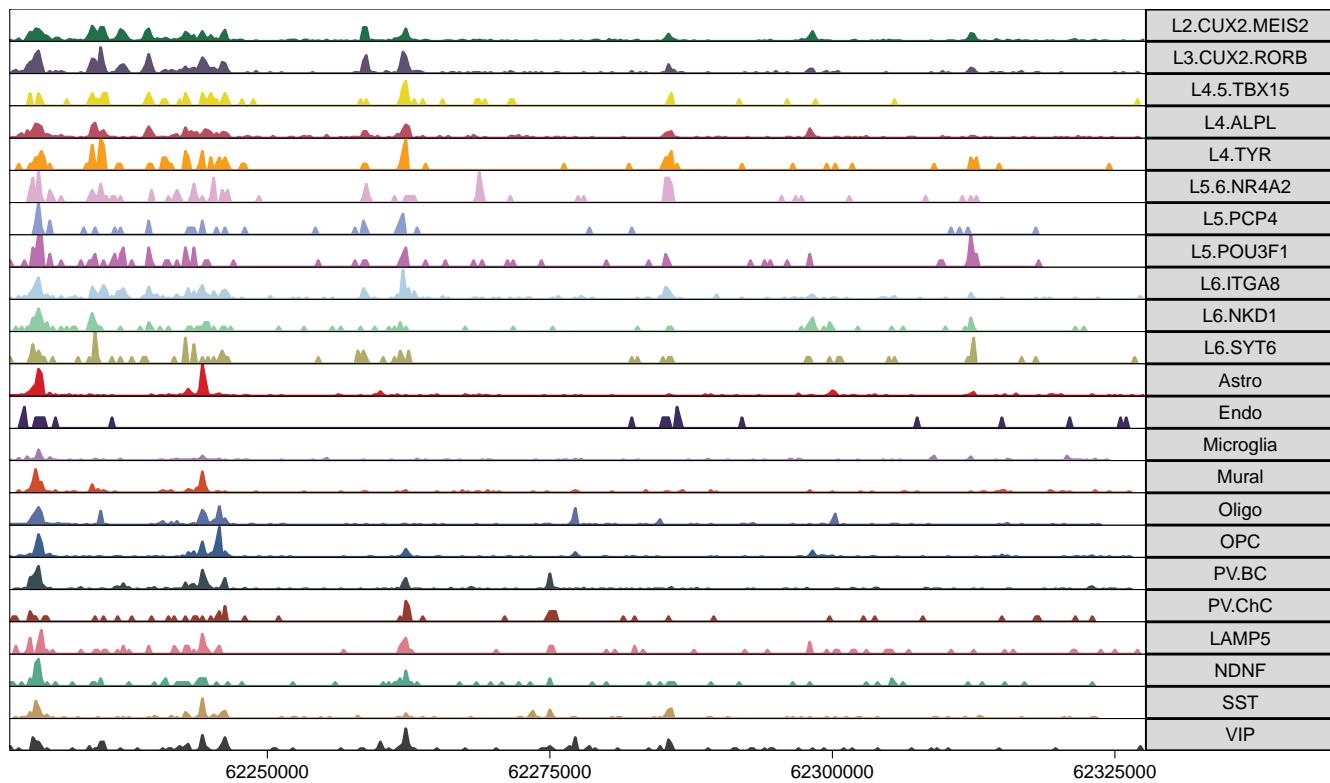
LoopTrack



Genes

## chr20:62227202–62327703 Marker Peak Tracks for: VIP

Coverage (Norm. ATAC Signal Range (0–1.19) by ReadsInTSS)



VIP

Peaks

LoopTrack

LOC105371345

LOC105371344

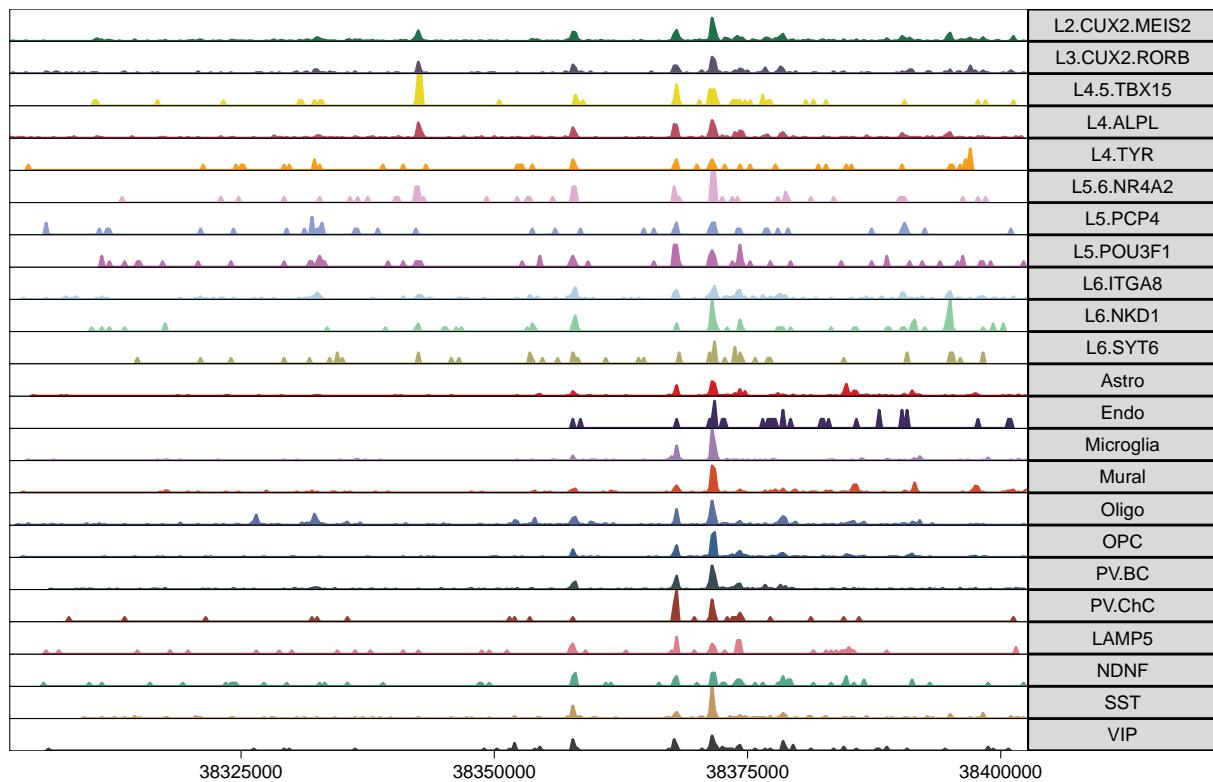
BCAR1

CFDP1

Genes

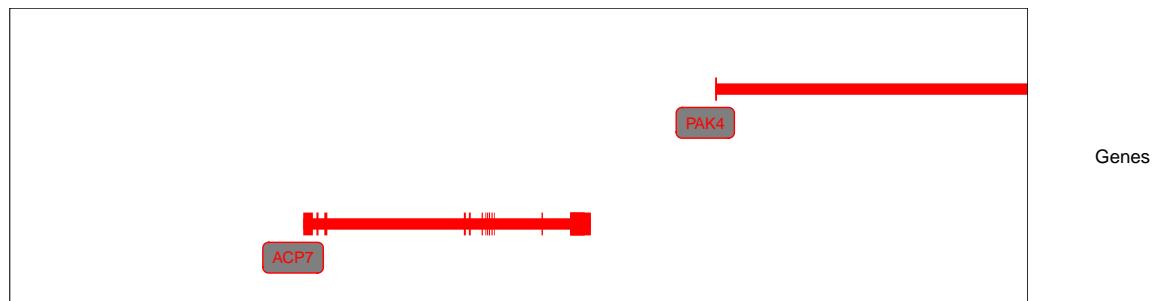
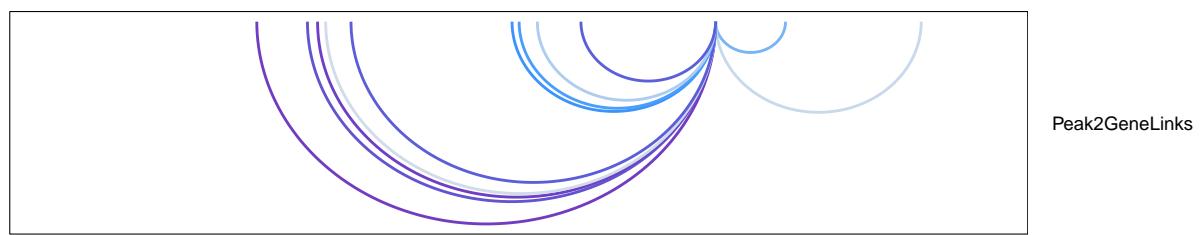
# chr19:38302160–38402661 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.39) by ReadsInTSS)

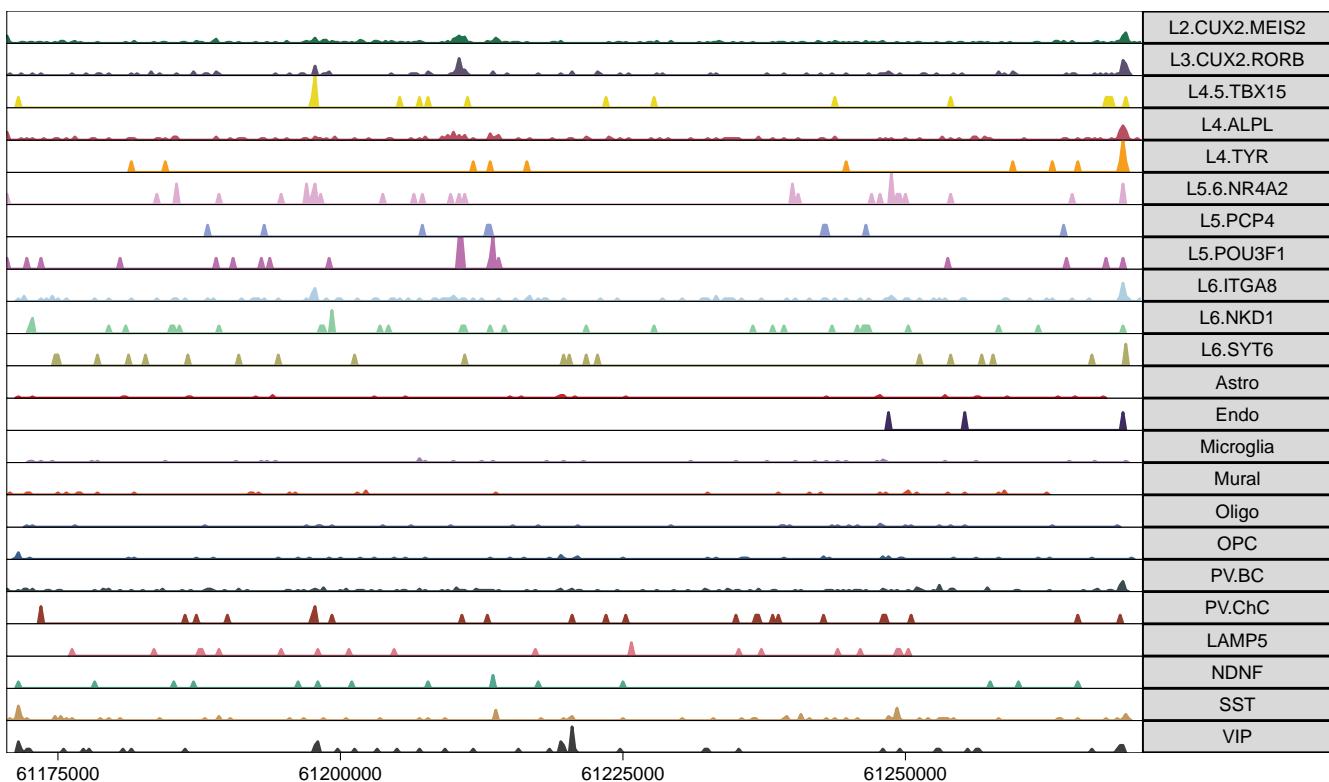


value

0.9
0.8
0.7
0.6
0.5



## chr12:61170471–61270972 Marker Peak Tracks for: VIP

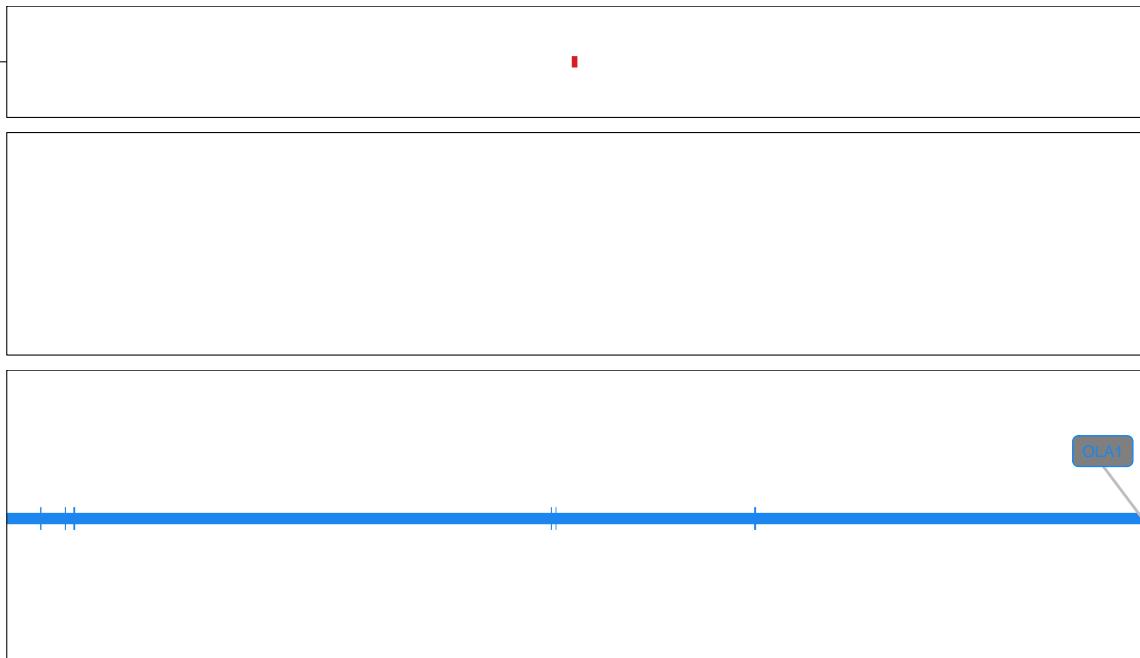
Coverage  
(Norm. ATAC Signal Range (0–0.7) by ReadsInTSS)

VIP

Peaks

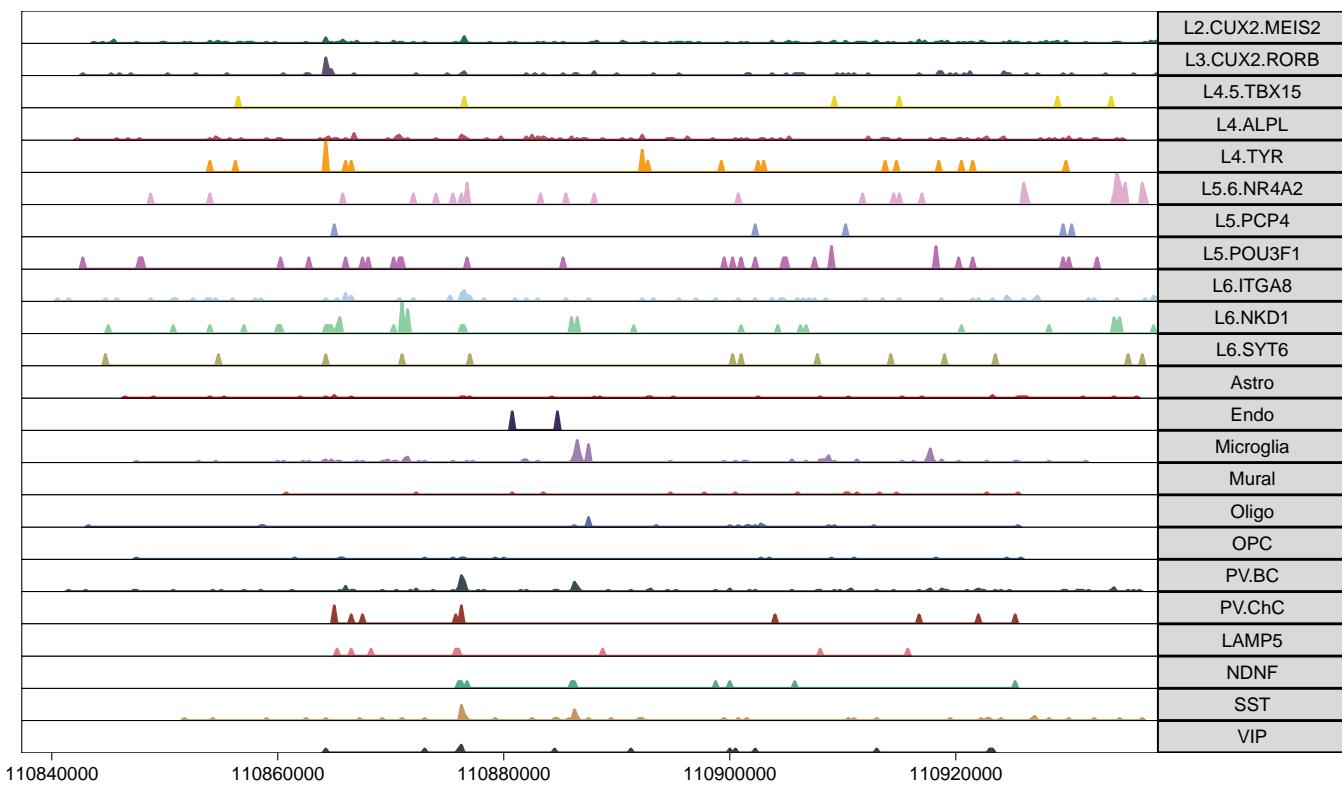
LoopTrack

Genes

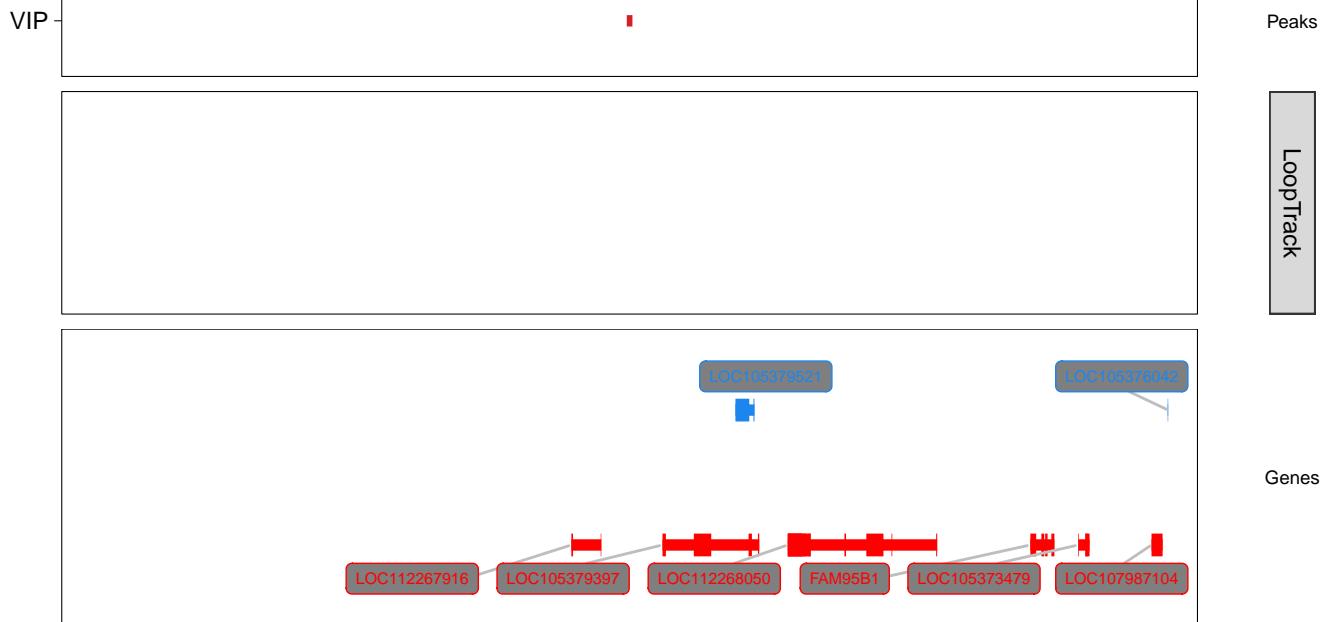


## chr15:110837345–110937846 Marker Peak Tracks for: VIP

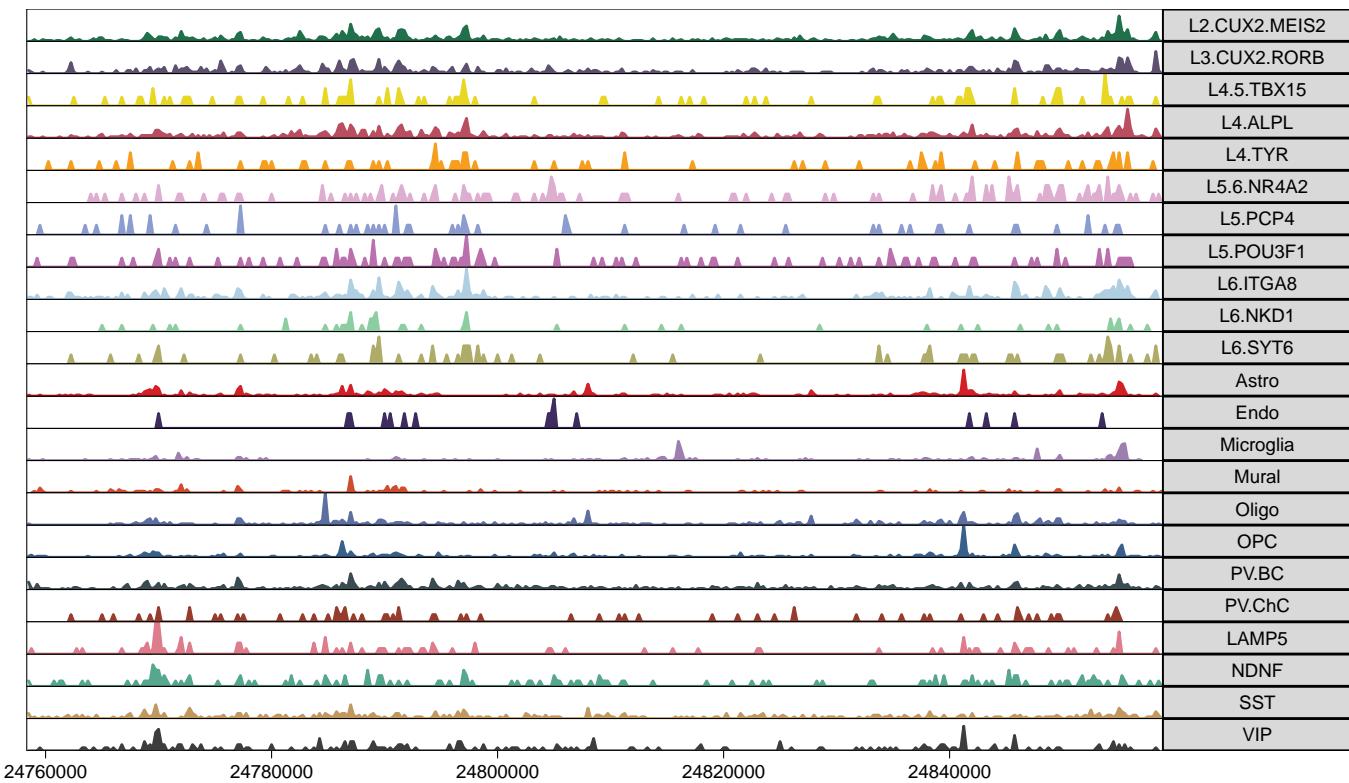
Coverage (Norm. ATAC Signal Range (0–0.68) by ReadsInTSS)



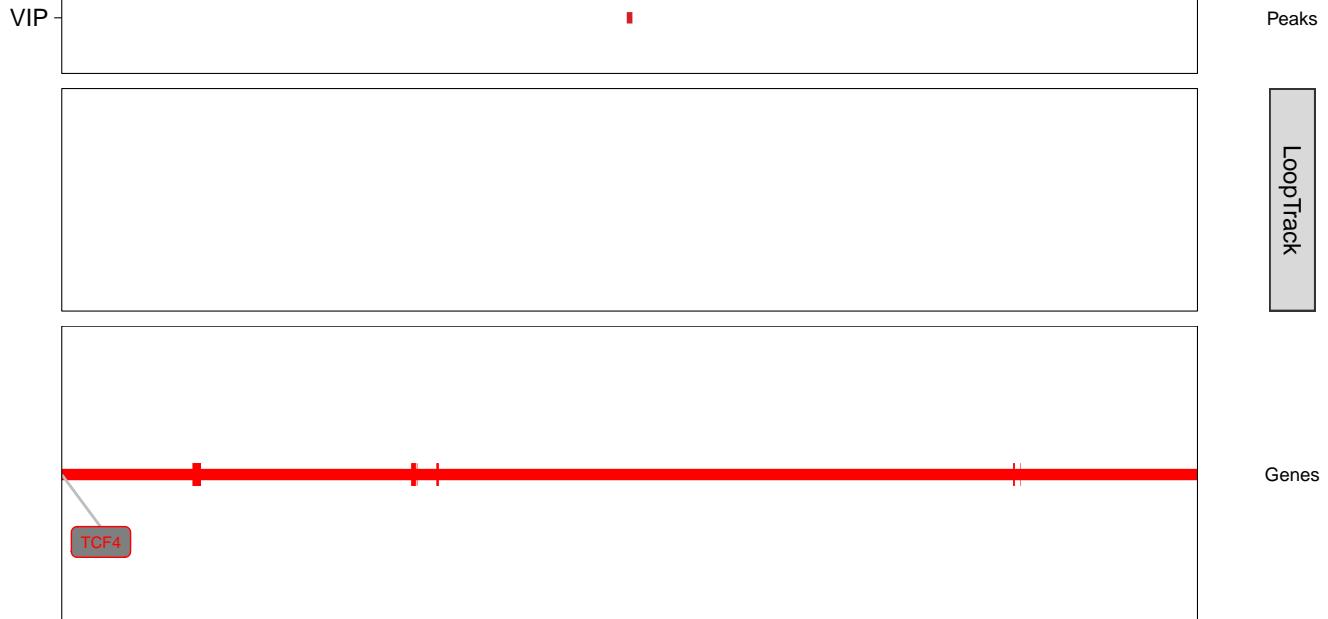
110840000 110860000 110880000 110900000 110920000



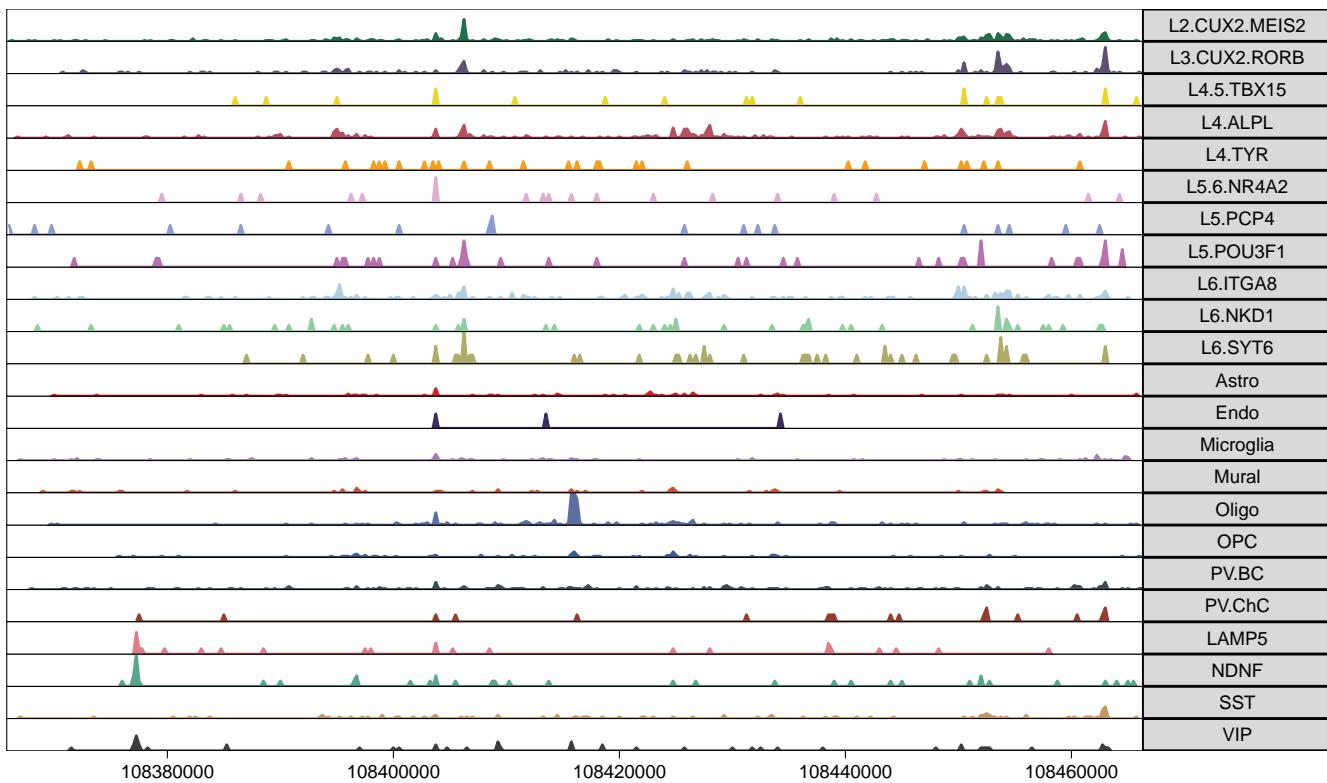
## chr18:24758334–24858835 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.85) by ReadsInTSS)

24760000 24780000 24800000 24820000 24840000



## chr5:108365785–108466286 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.87) by ReadsInTSS)

VIP

Peaks

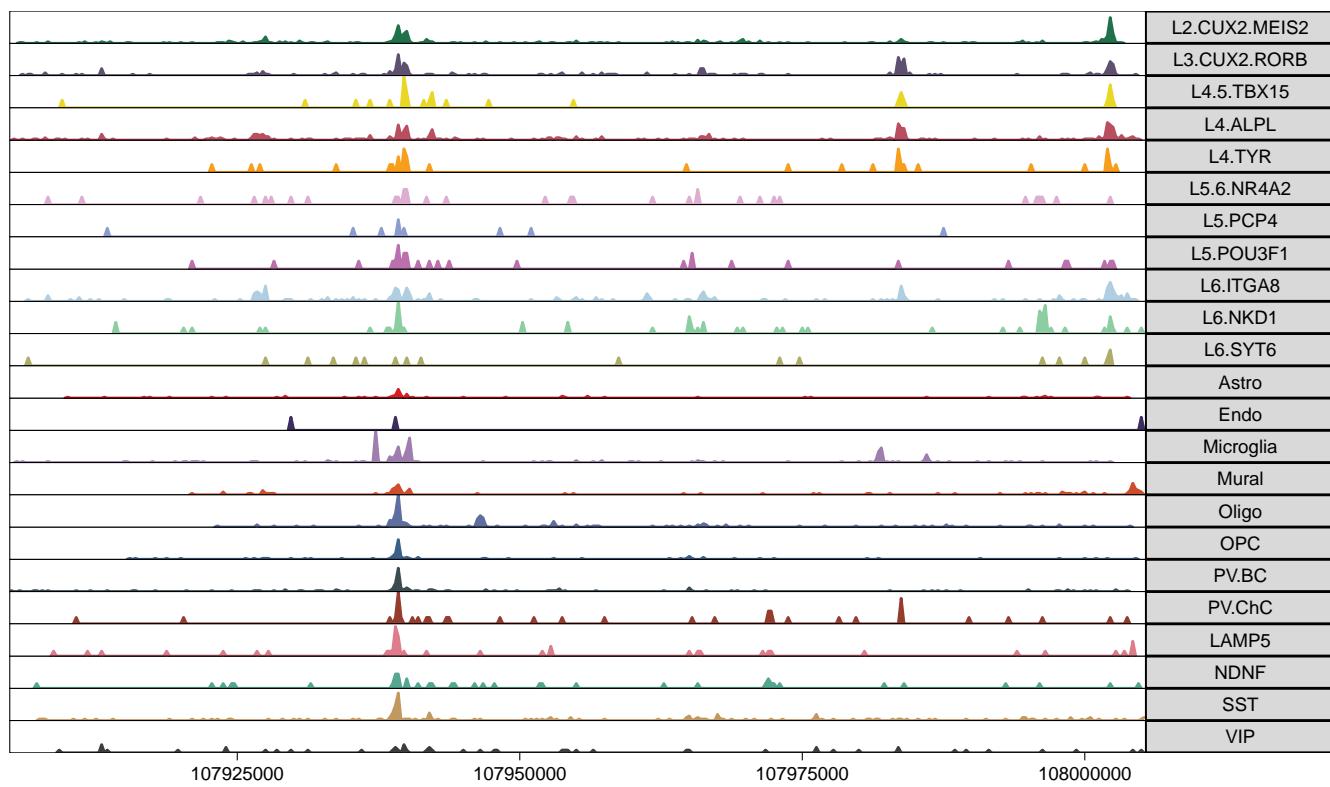
LoopTrack

ELOVL6

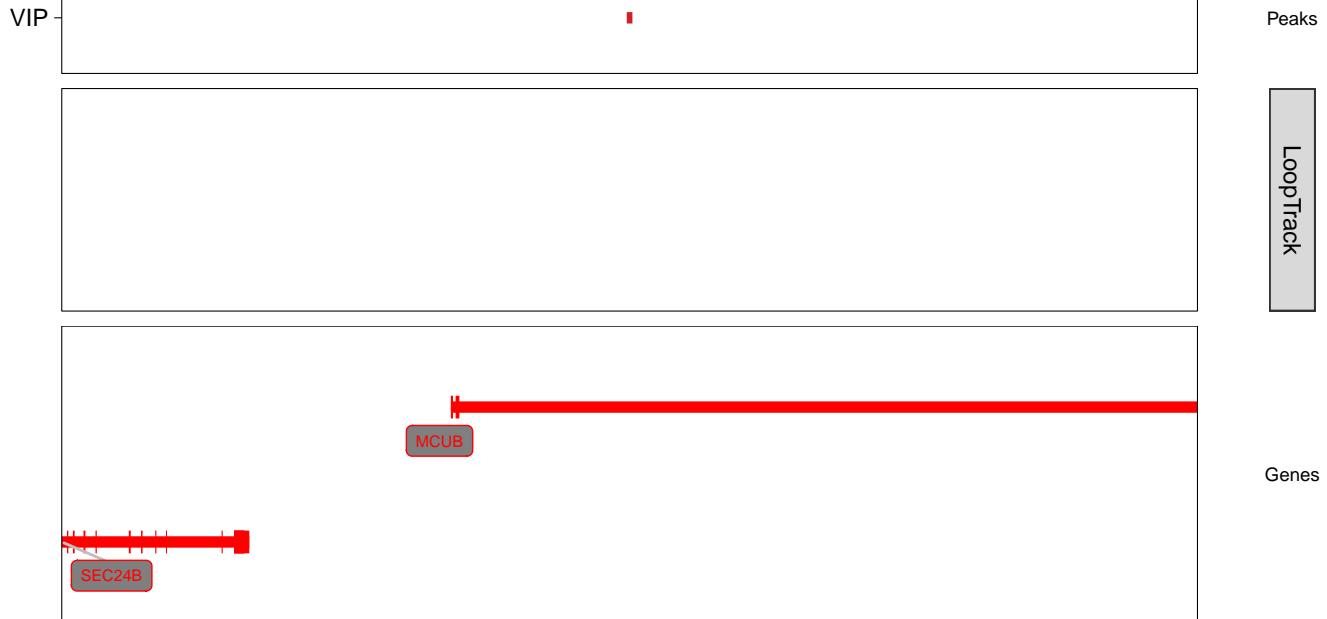
Genes

chr5:107904866–108005367 Marker Peak Tracks for: VIP

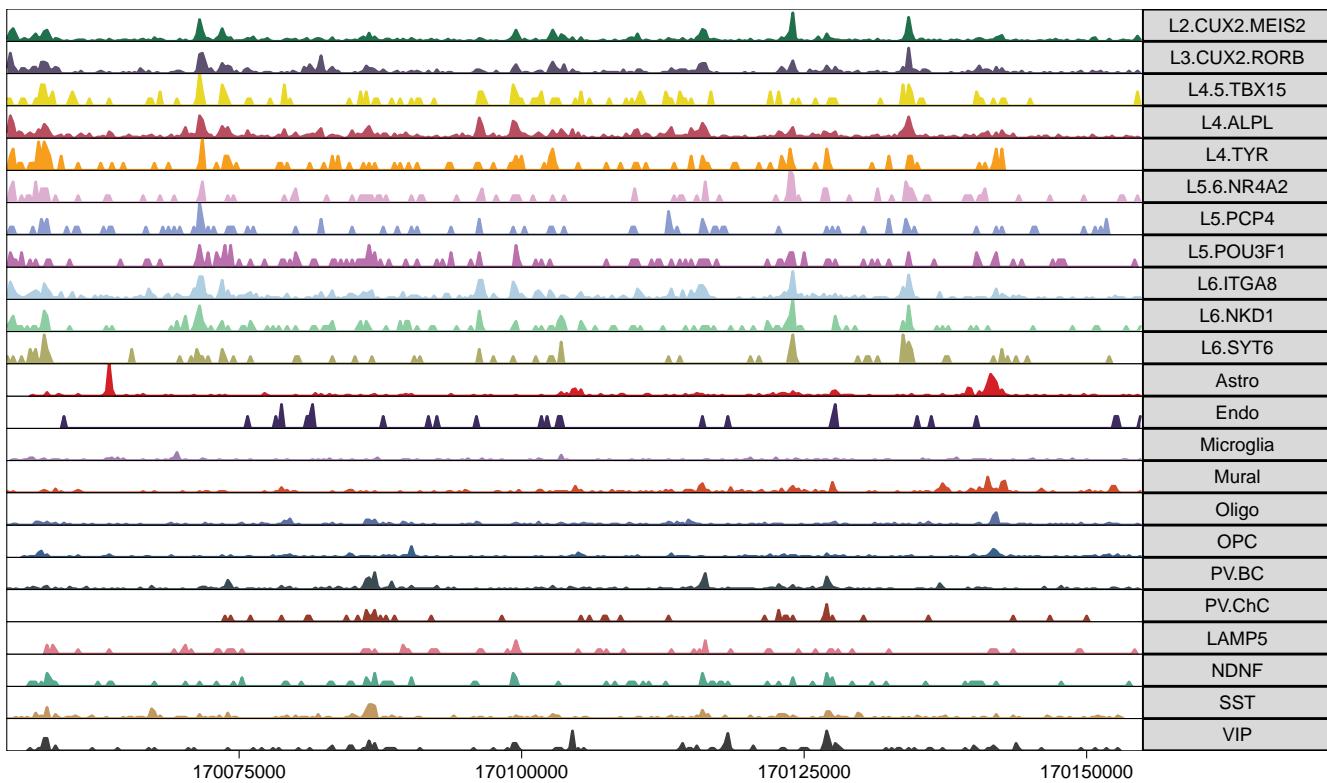
Coverage  
(Norm. ATAC Signal Range (0–0.96) by ReadsInTSS)



107925000 107950000 107975000 108000000



## chr1:170054436–170154937 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.06) by ReadsInTSS)

VIP

Peaks

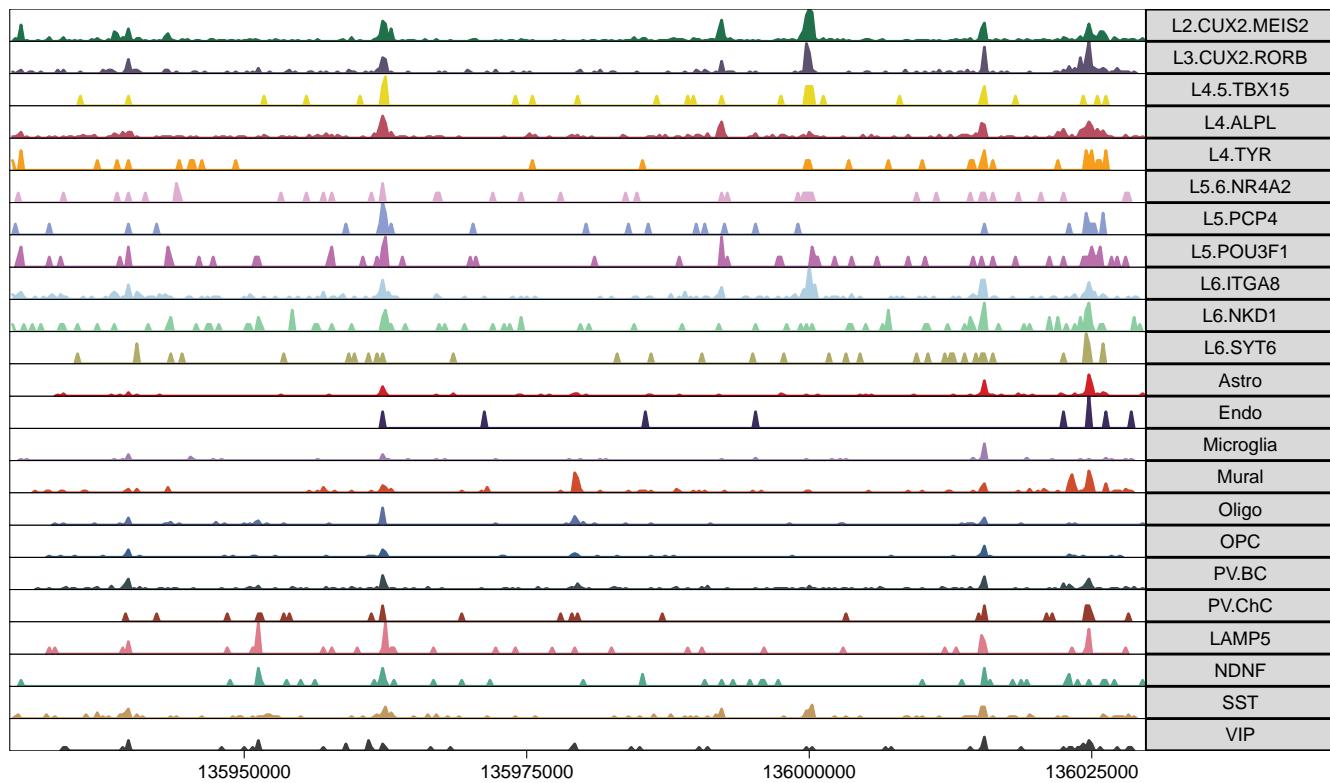
LoopTrack

SSBP3

RNVU1-2A

Genes

## chr2:135929251–136029752 Marker Peak Tracks for: VIP

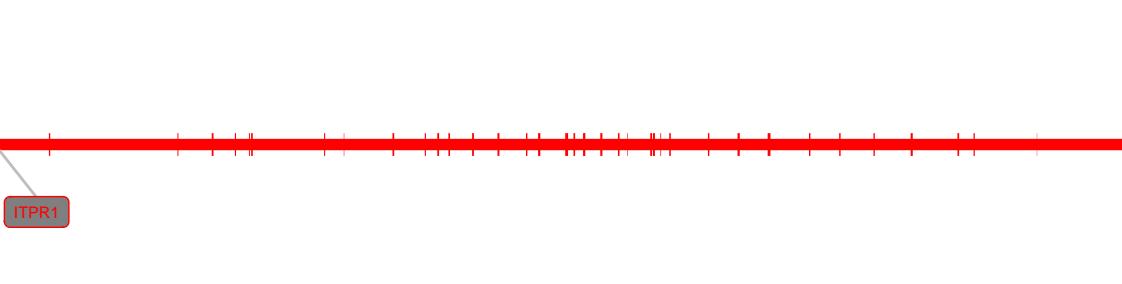
Coverage  
(Norm. ATAC Signal Range (0–0.76) by ReadsInTSS)

VIP

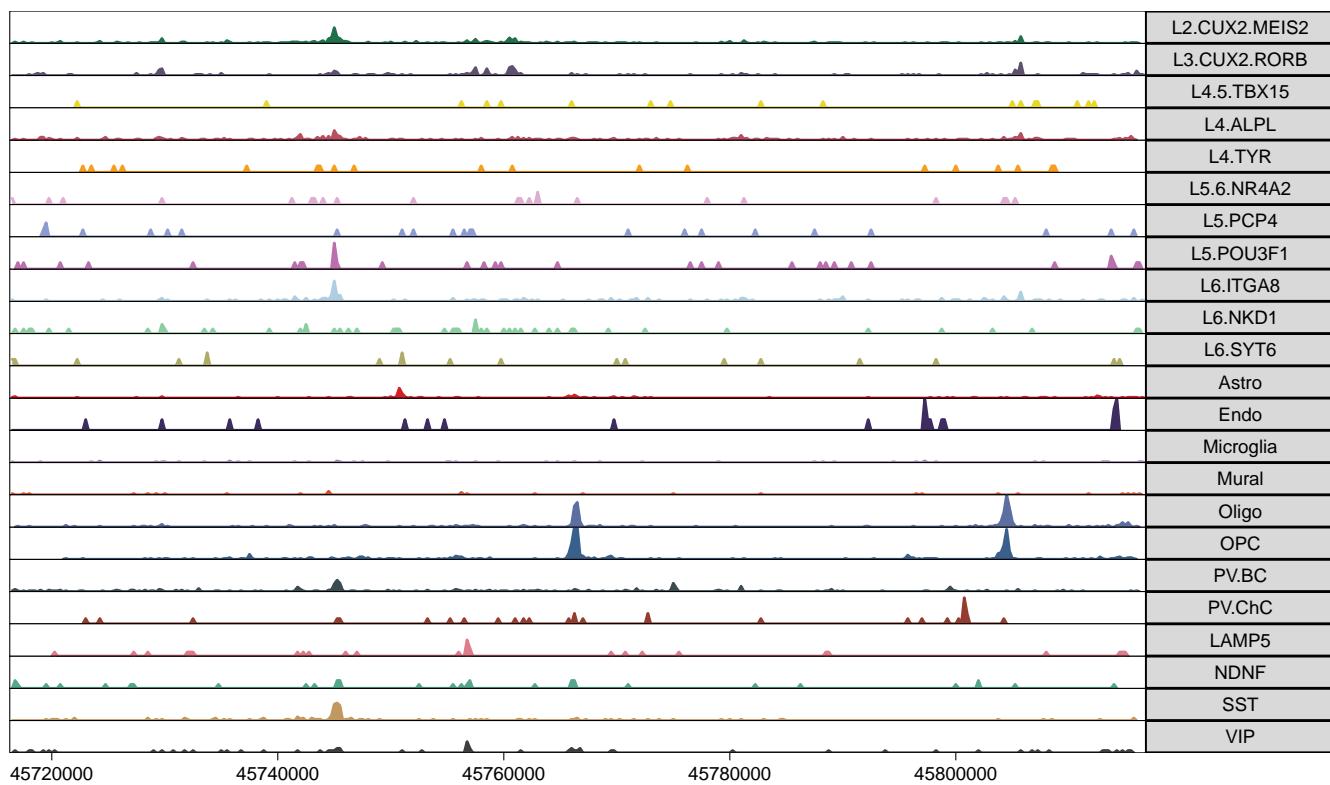
Peaks

LoopTrack

Genes



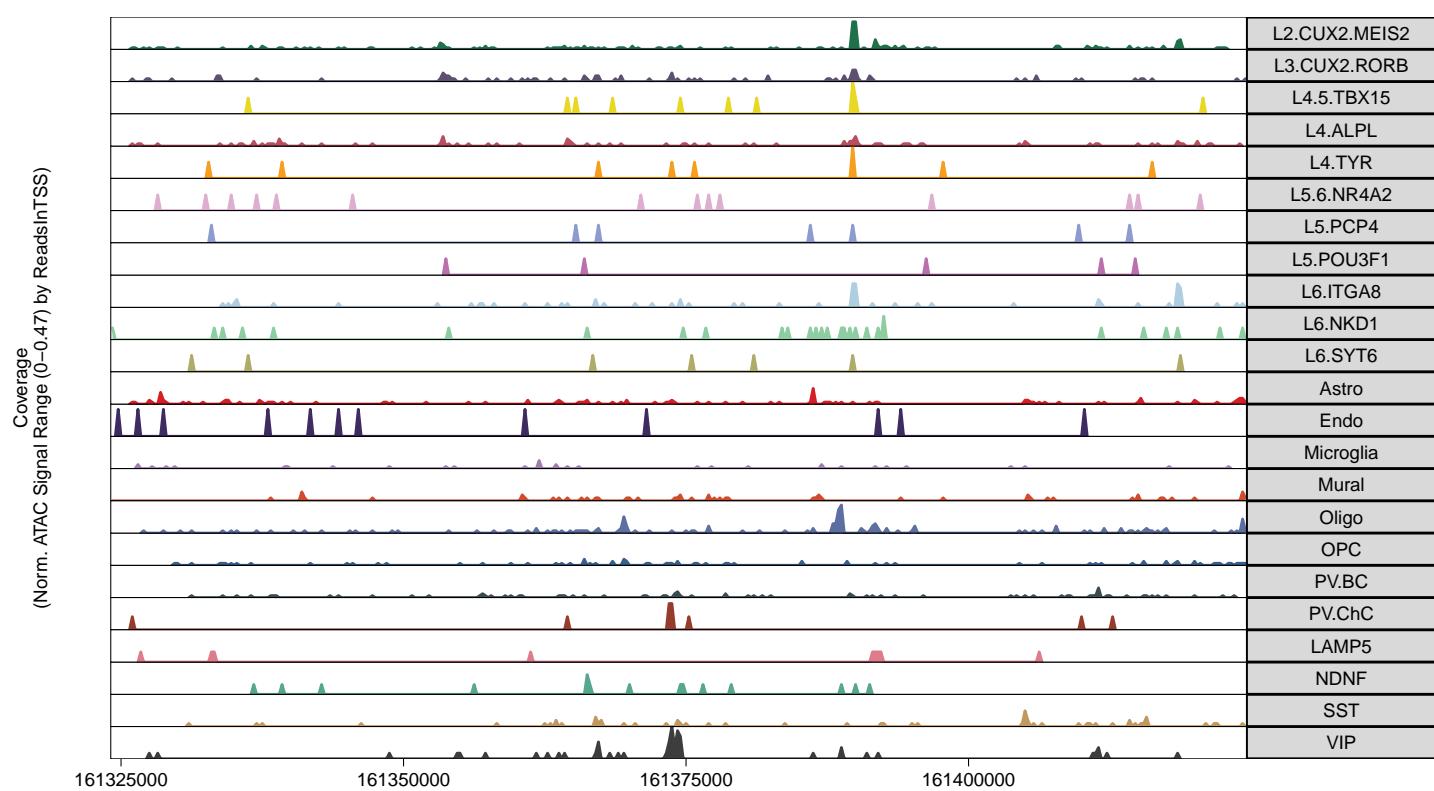
## chr12:45716280–45816781 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.18) by ReadsInTSS)

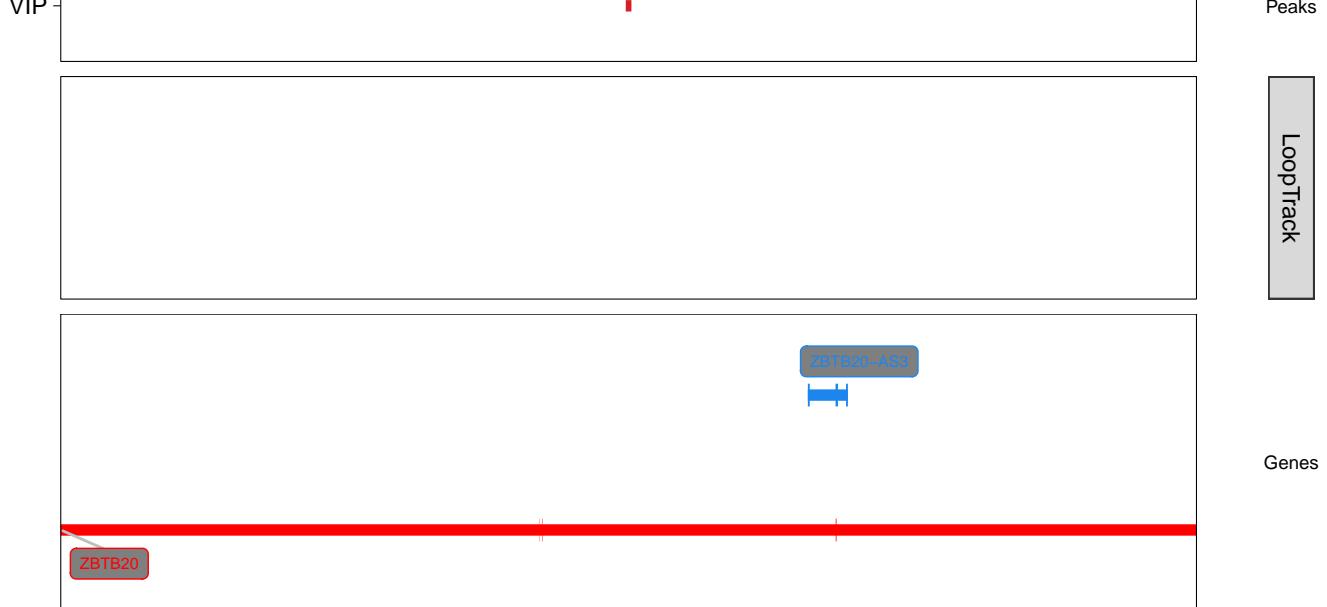
45720000 45740000 45760000 45780000 45800000



## chr2:161324091–161424592 Marker Peak Tracks for: VIP

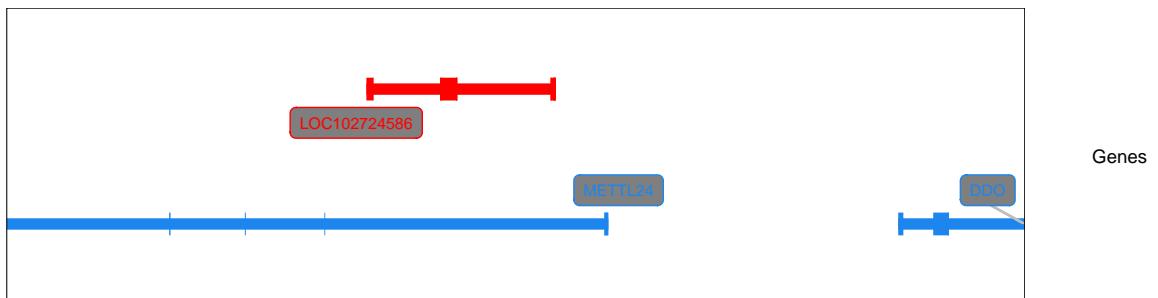
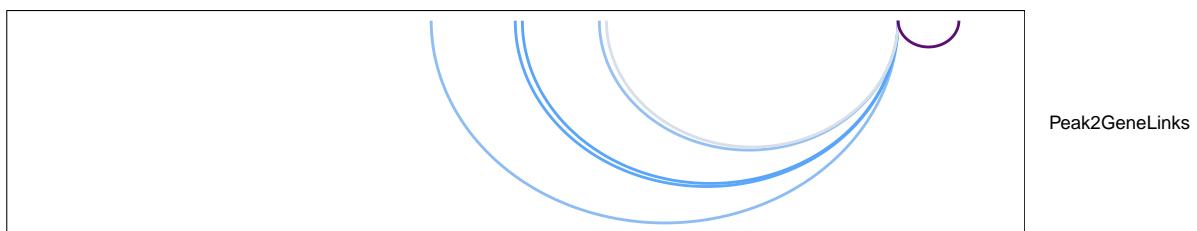
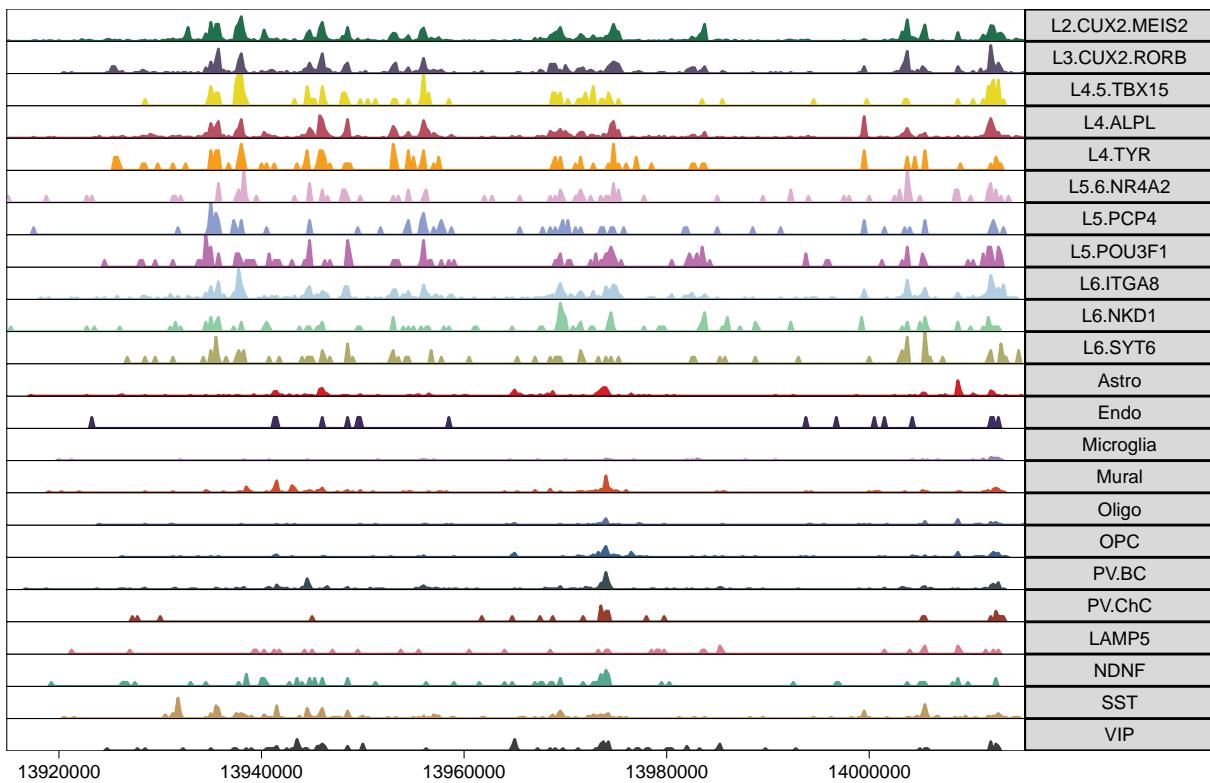


161325000      161350000      161375000      161400000

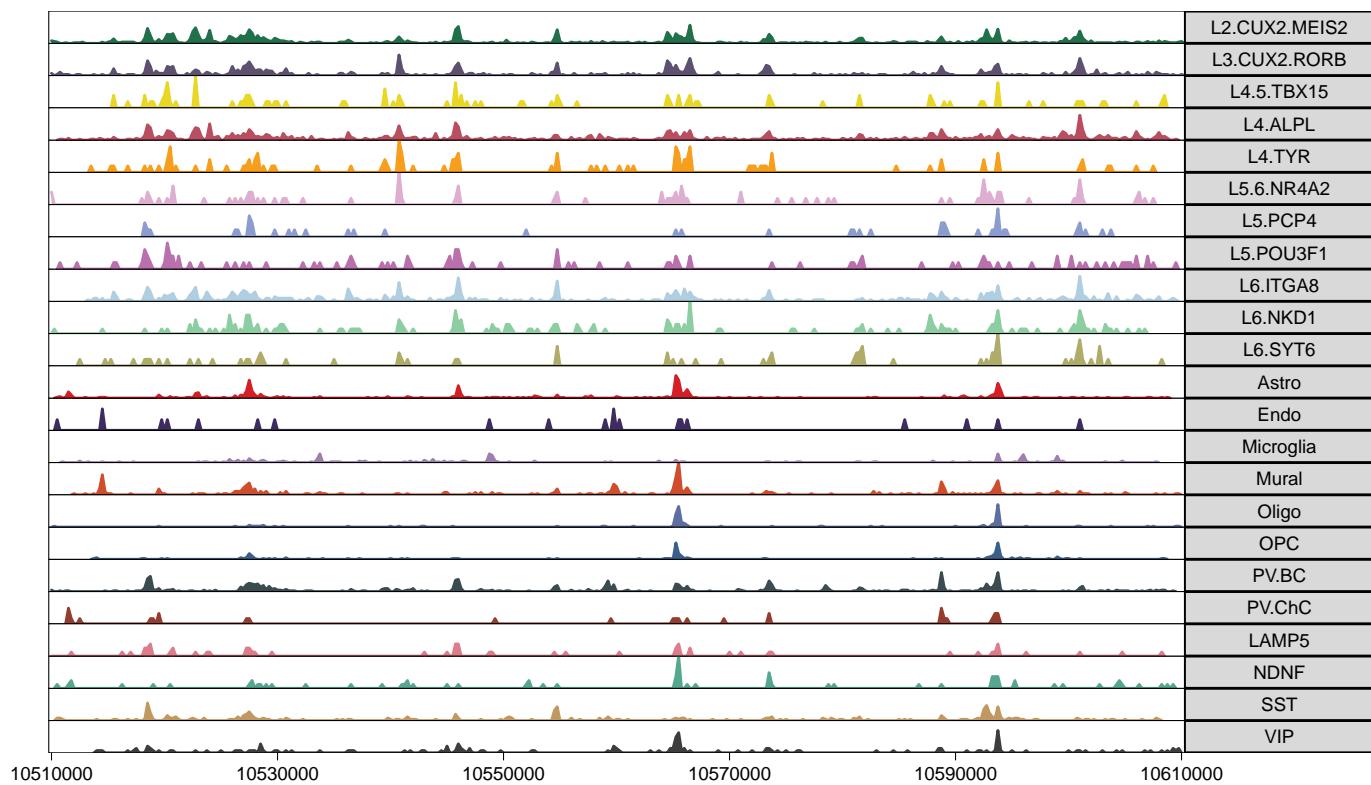


chr4:13914848–14015349 Marker Peak Tracks for: VIP

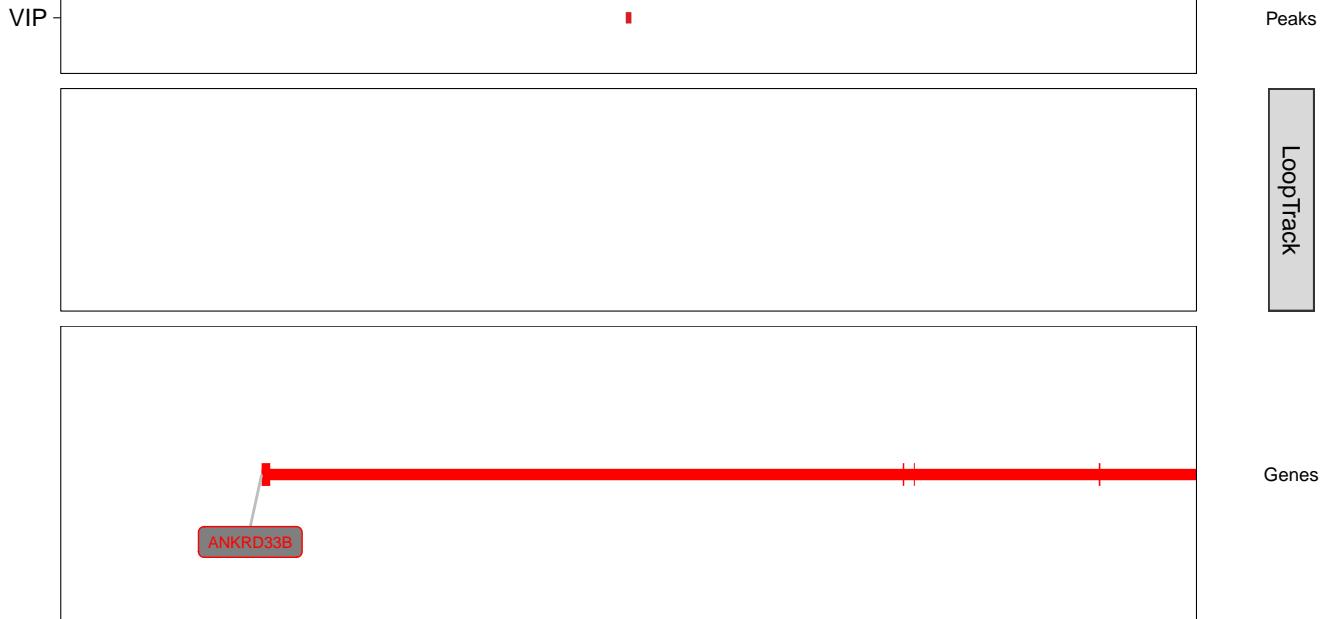
Coverage  
(Norm. ATAC Signal Range (0–1.15) by ReadsInTSS)



## chr6:10509755–10610256 Marker Peak Tracks for: VIP

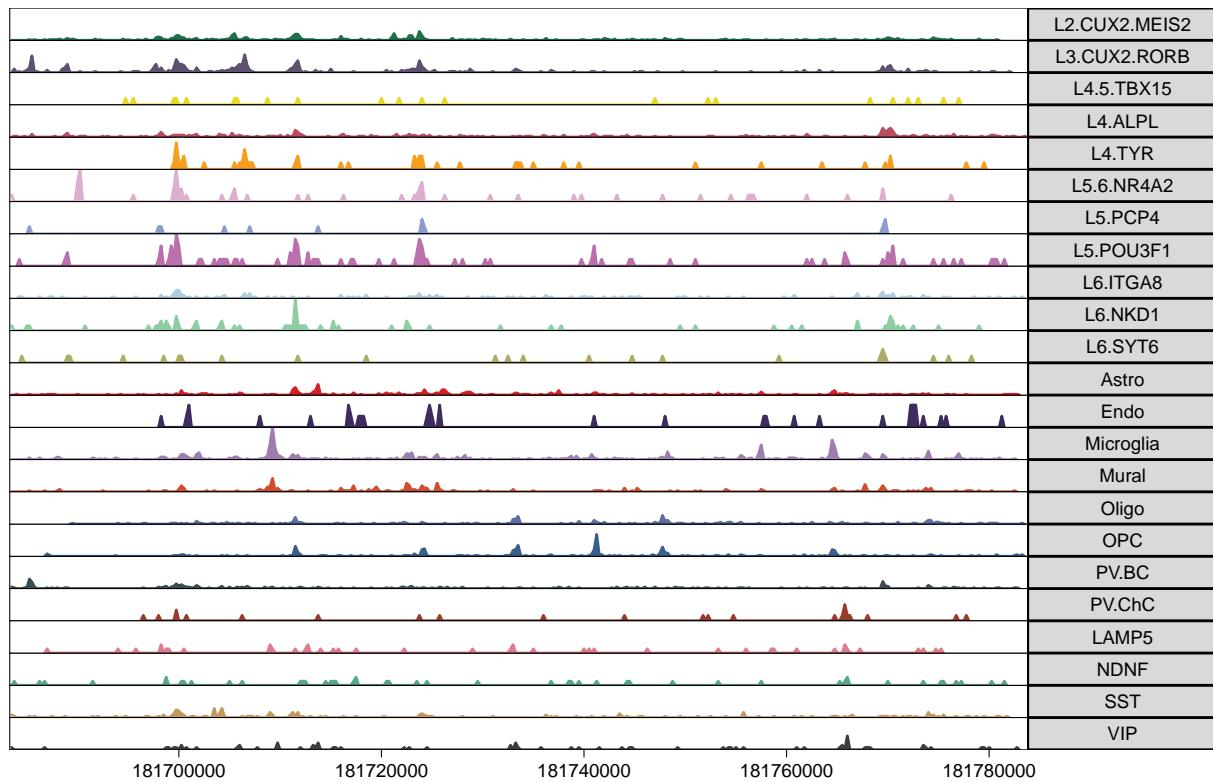
Coverage  
(Norm. ATAC Signal Range (0–1.18) by ReadsInTSS)

10510000 10530000 10550000 10570000 10590000 10610000



chr5:181683306–181783807 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.13) by ReadsInTSS)

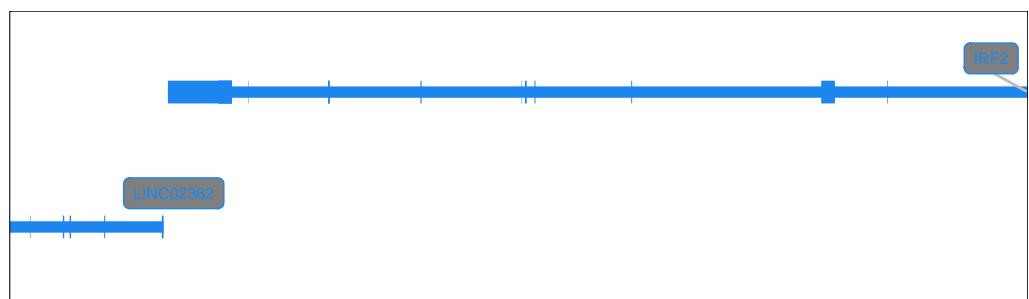


181700000 181720000 181740000 181760000 181780000

VIP - Peaks



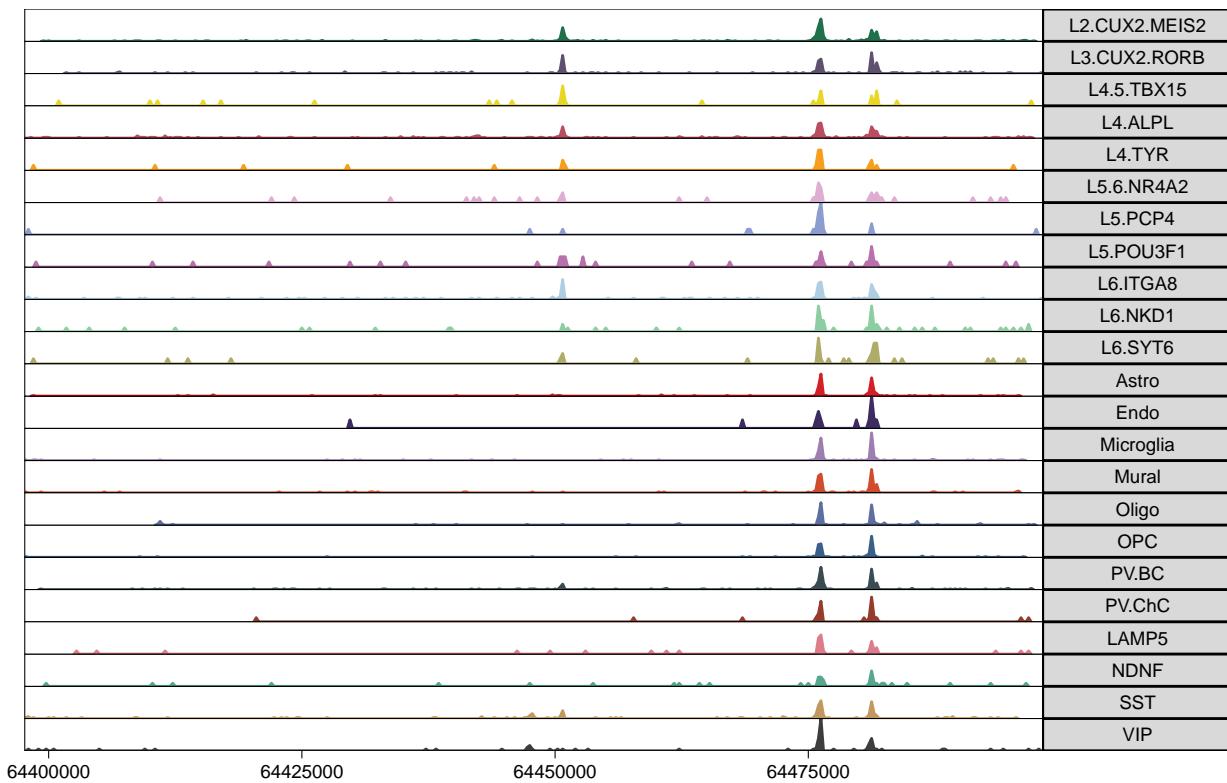
Peak2GeneLinks



Genes

chr9:64397641–64498142 Marker Peak Tracks for: VIP

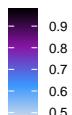
Coverage  
(Norm. ATAC Signal Range (0–1.49) by ReadsInTSS)



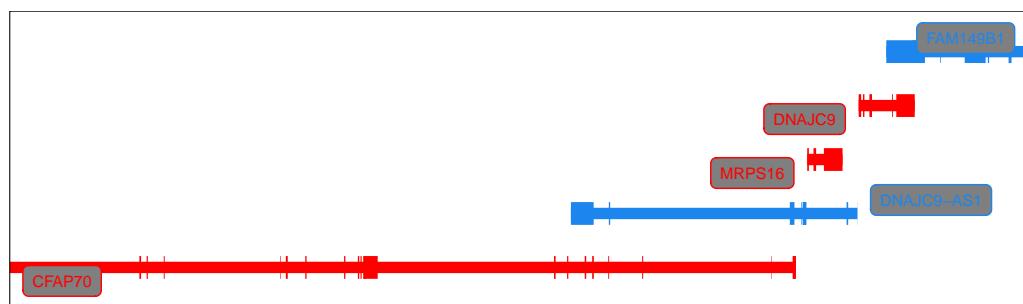
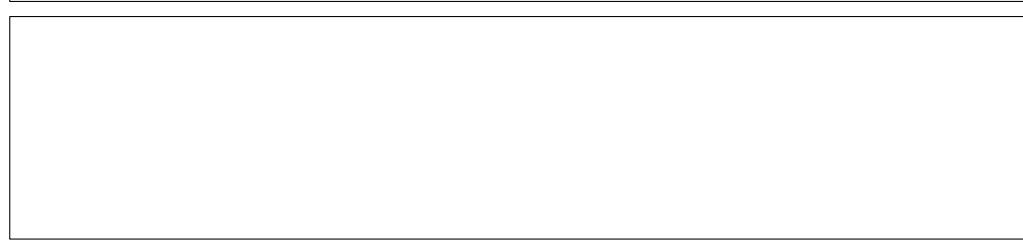
64400000 64425000 64450000 64475000

VIP - Peaks

value



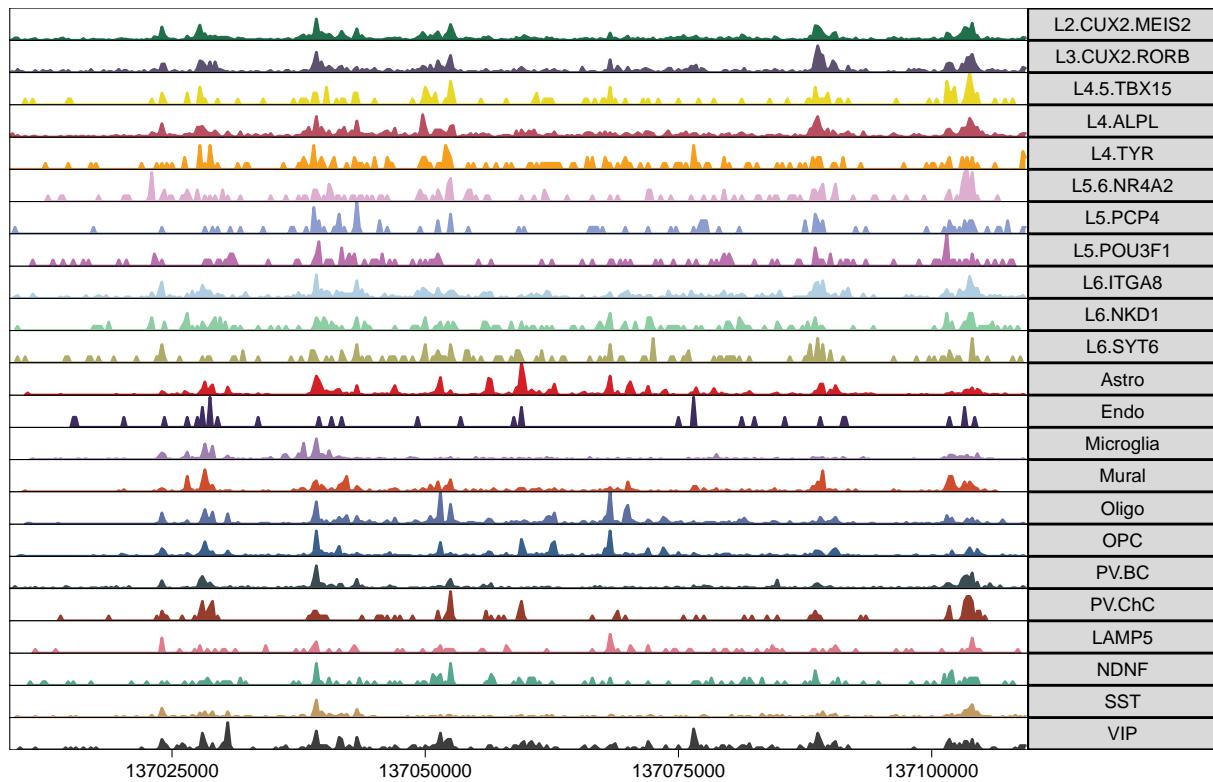
Peak2GeneLinks



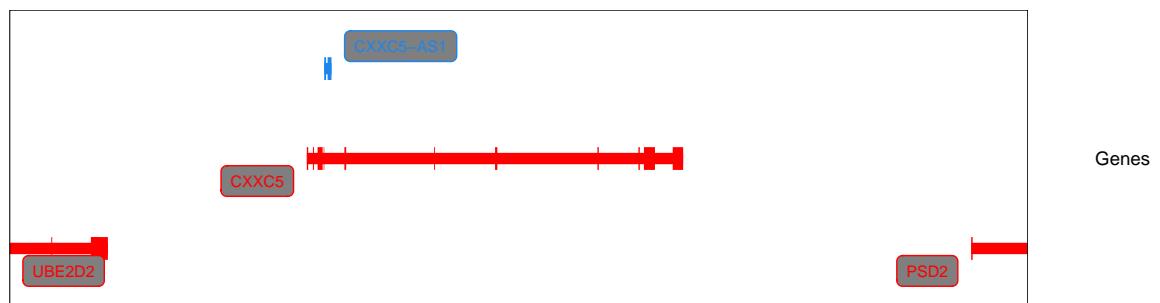
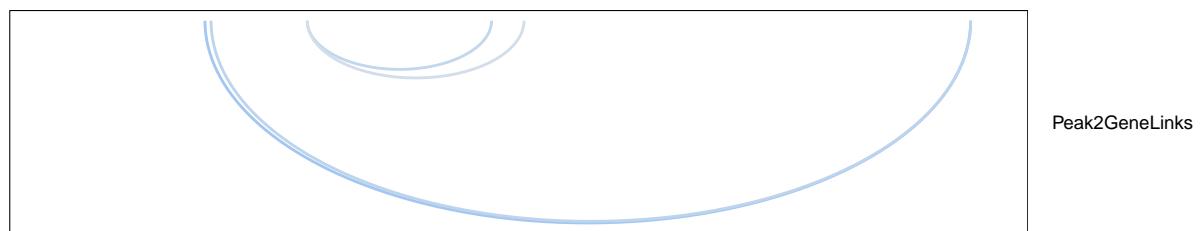
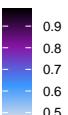
Genes

chr6:137008979–137109480 Marker Peak Tracks for: VIP

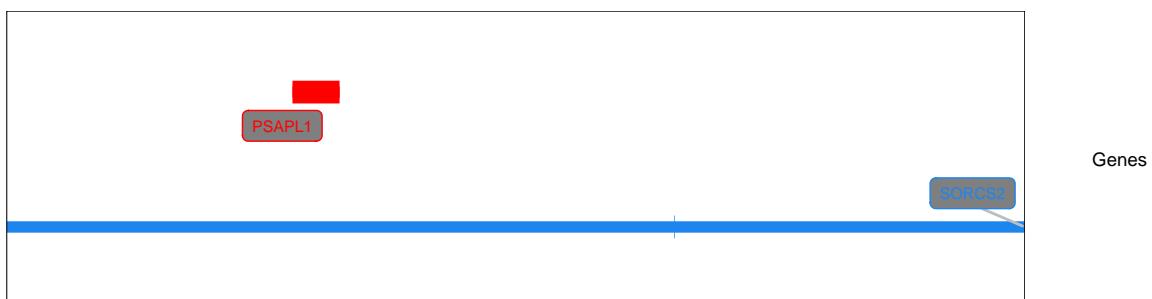
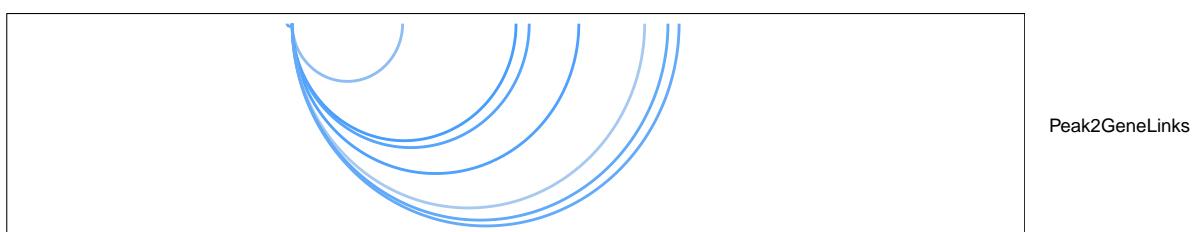
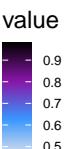
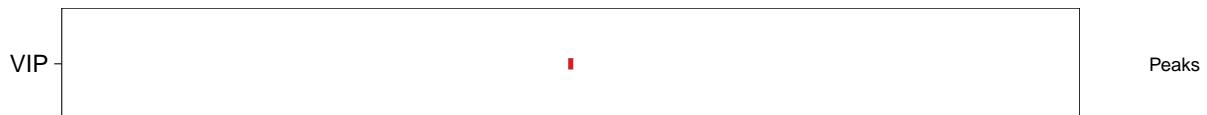
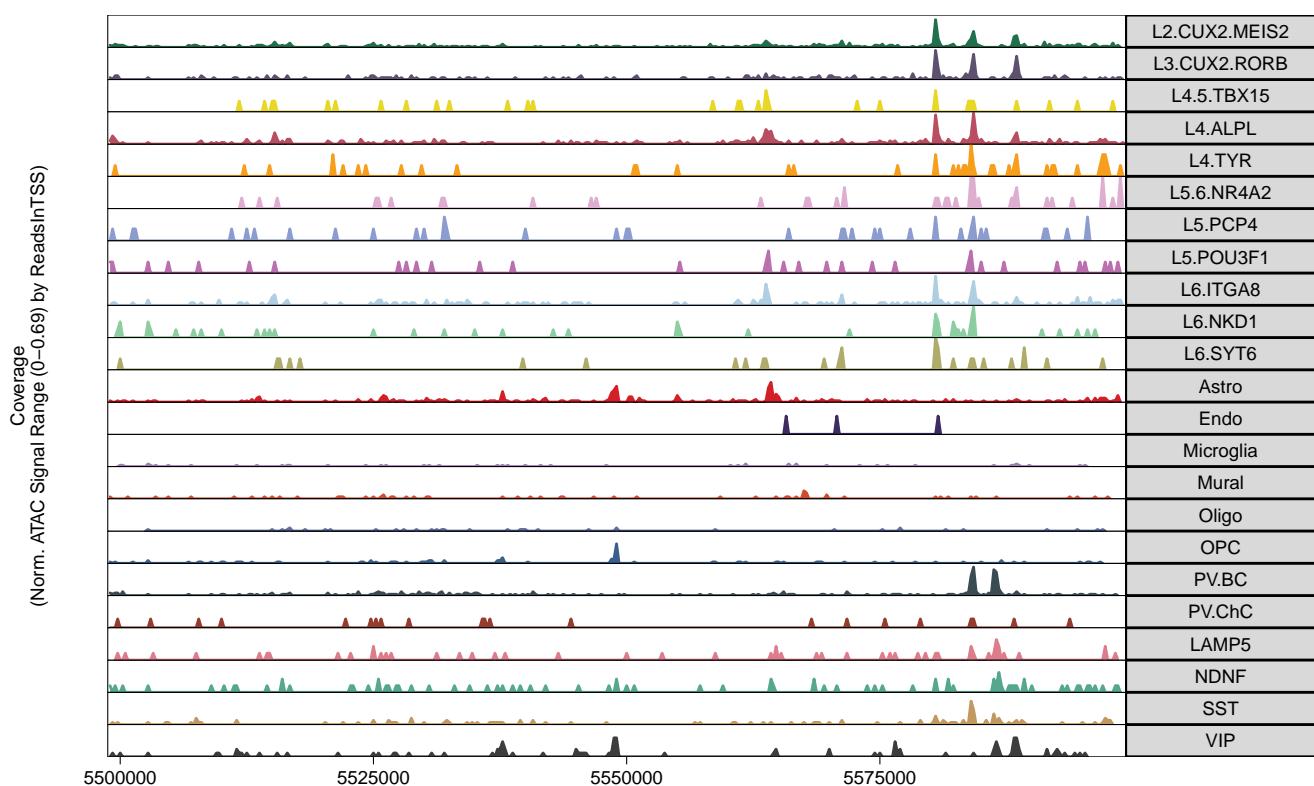
Coverage  
(Norm. ATAC Signal Range (0–1.26) by ReadsInTSS)



value

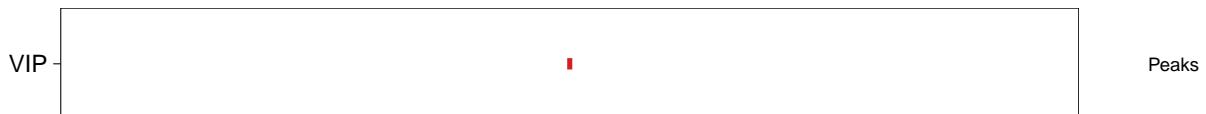
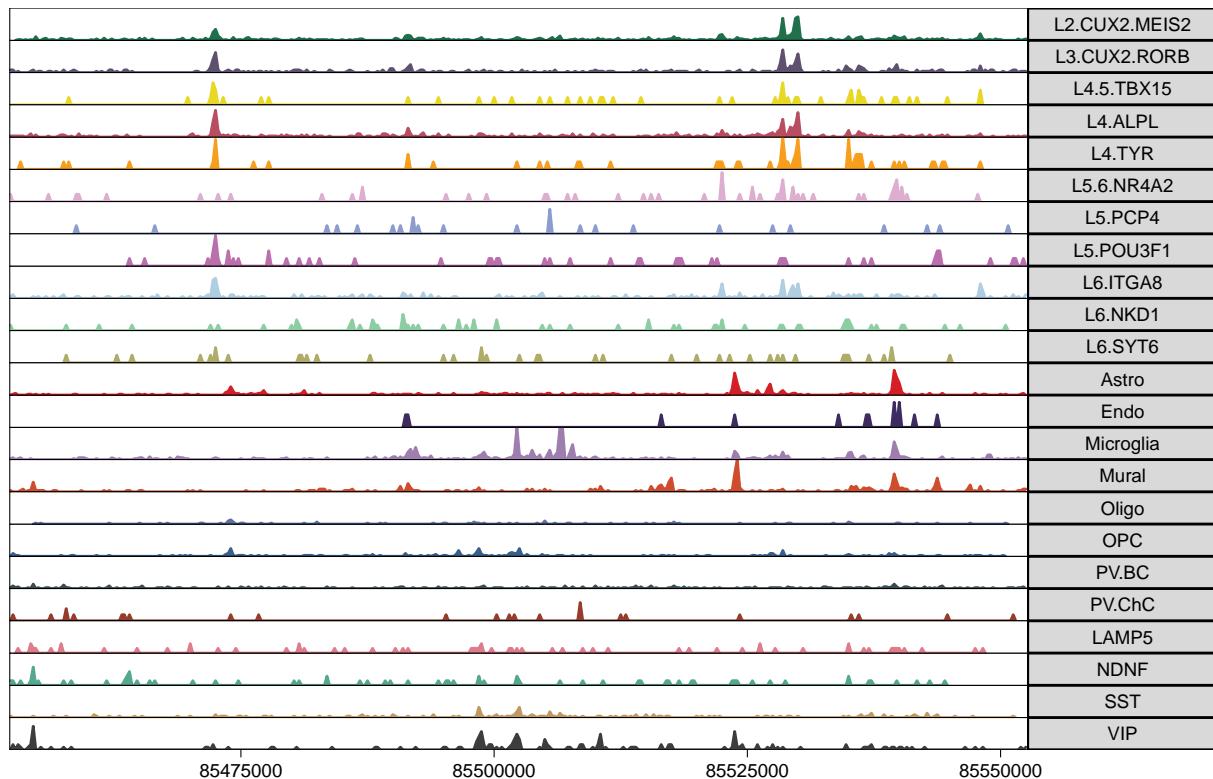


# chr5:5498769–5599270 Marker Peak Tracks for: VIP



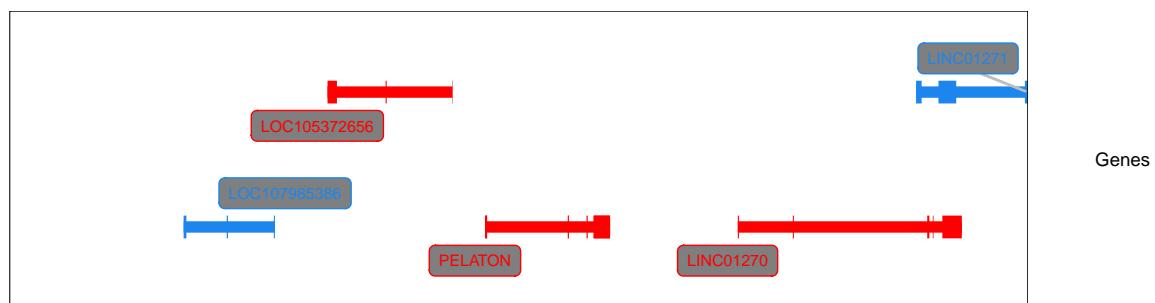
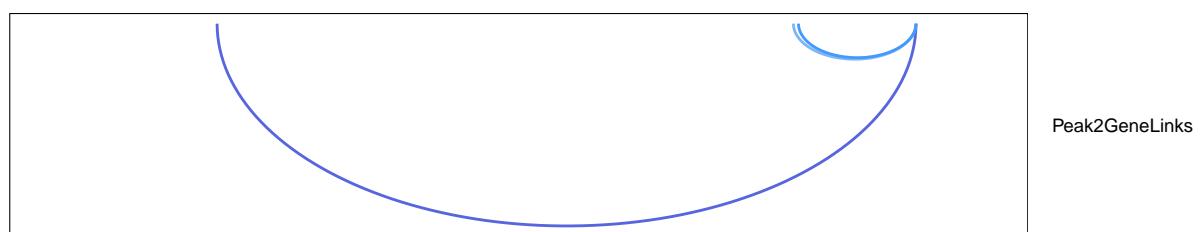
# chr10:85452179–85552680 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.01) by ReadsInTSS)

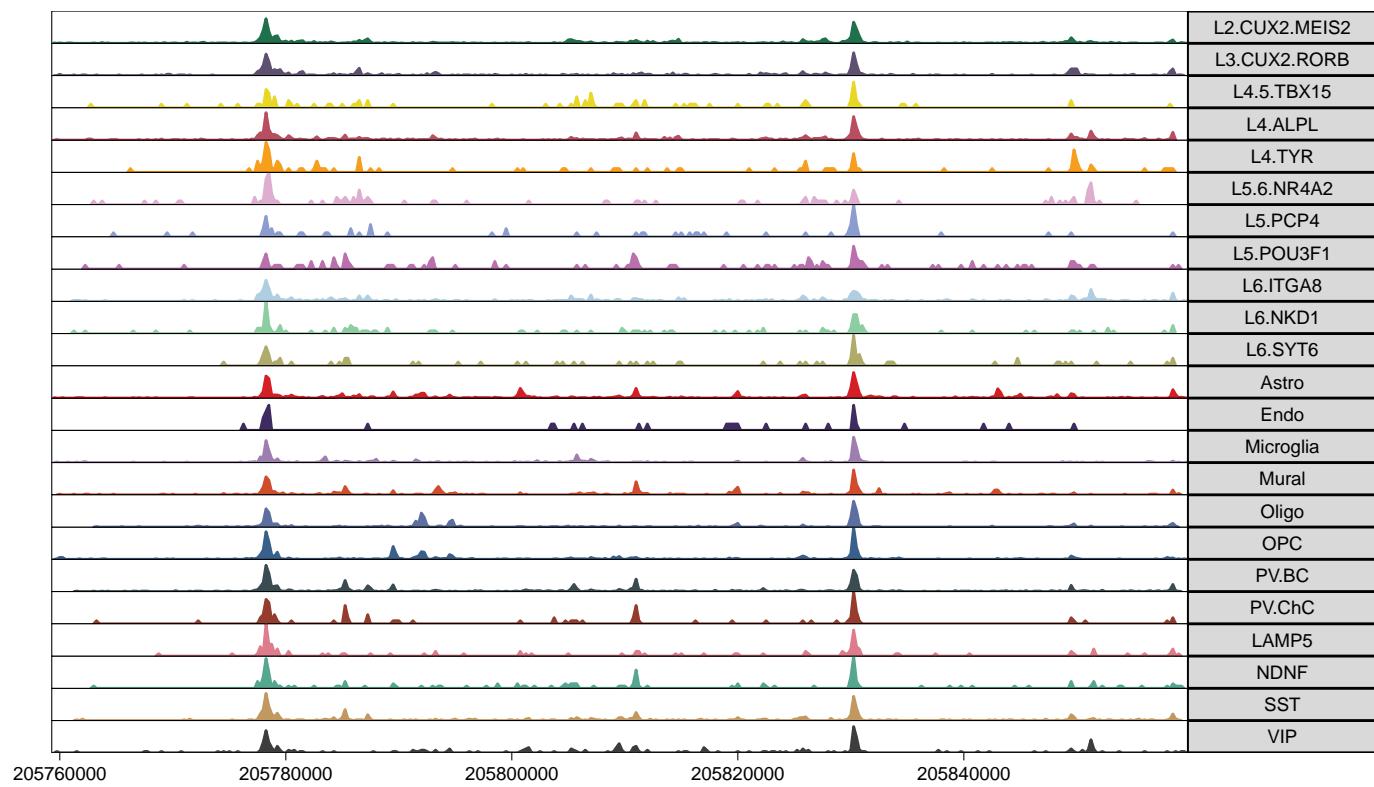


value

0.9
0.8
0.7
0.6
0.5



## chr1:205759288–205859789 Marker Peak Tracks for: VIP

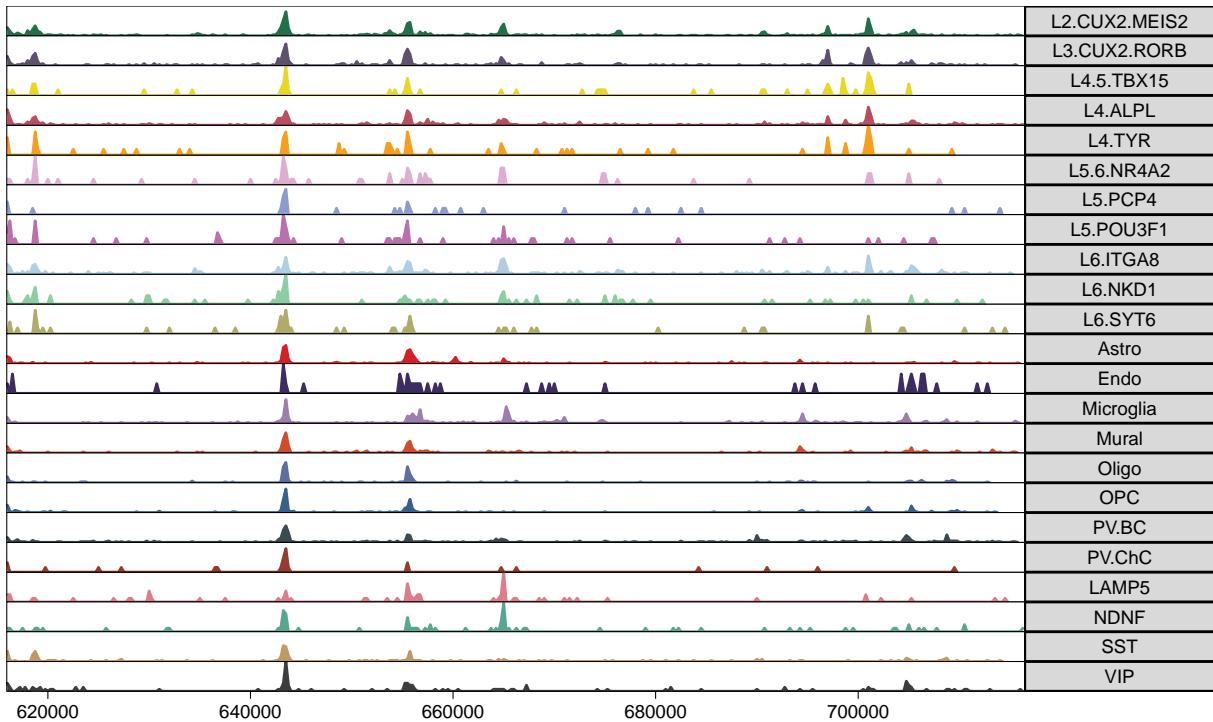
Coverage  
(Norm. ATAC Signal Range (0–2.01) by ReadsInTSS)

205760000 205780000 205800000 205820000 205840000



# chr16:615939–716440 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.2) by ReadslnTSS)



VIP

Peaks



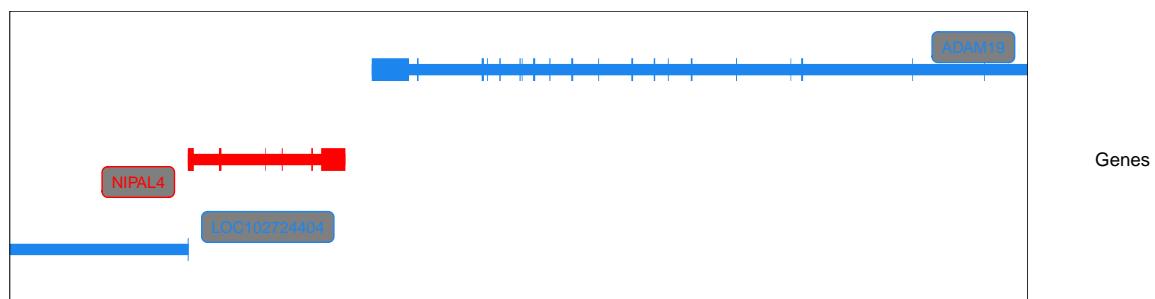
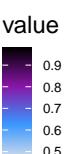
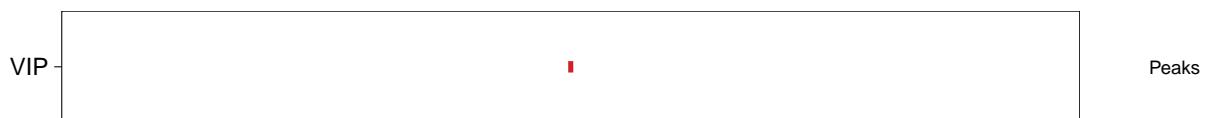
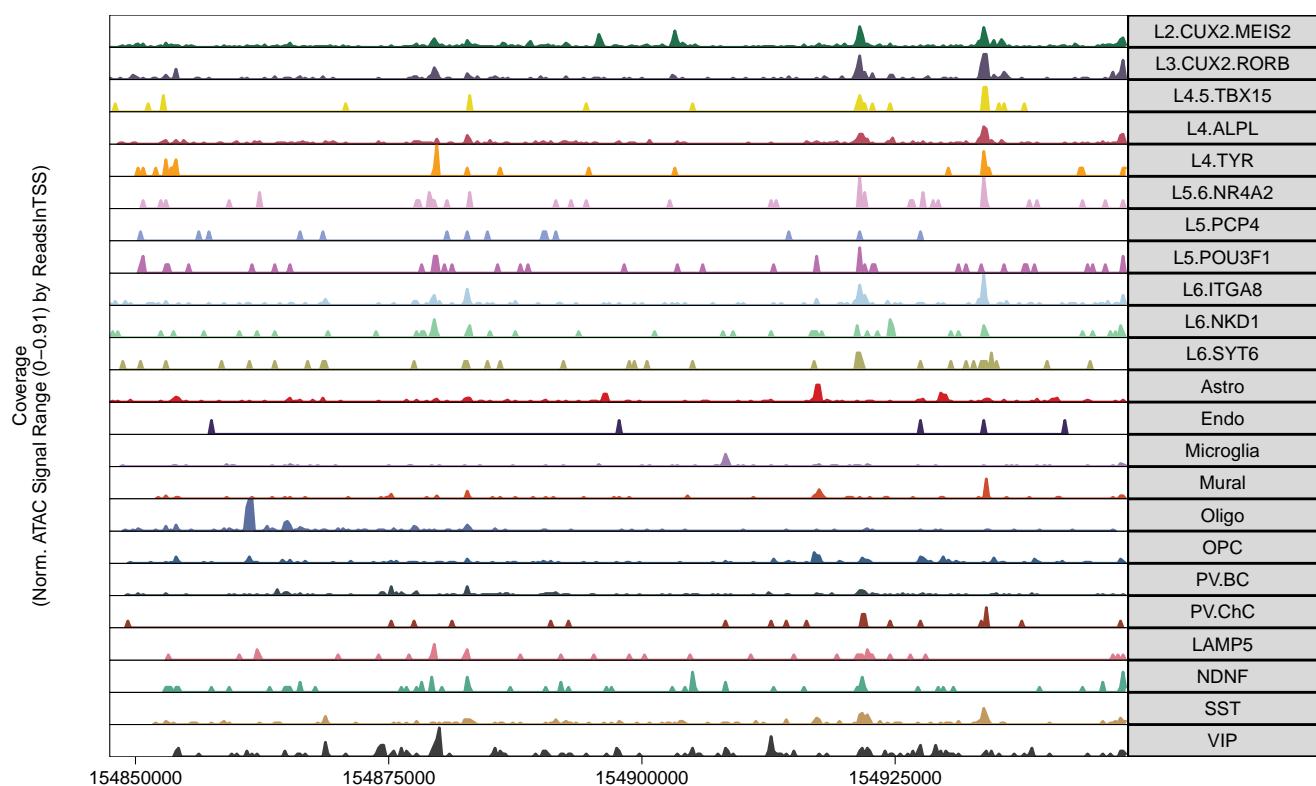
Peak2GeneLinks

GeneTrack

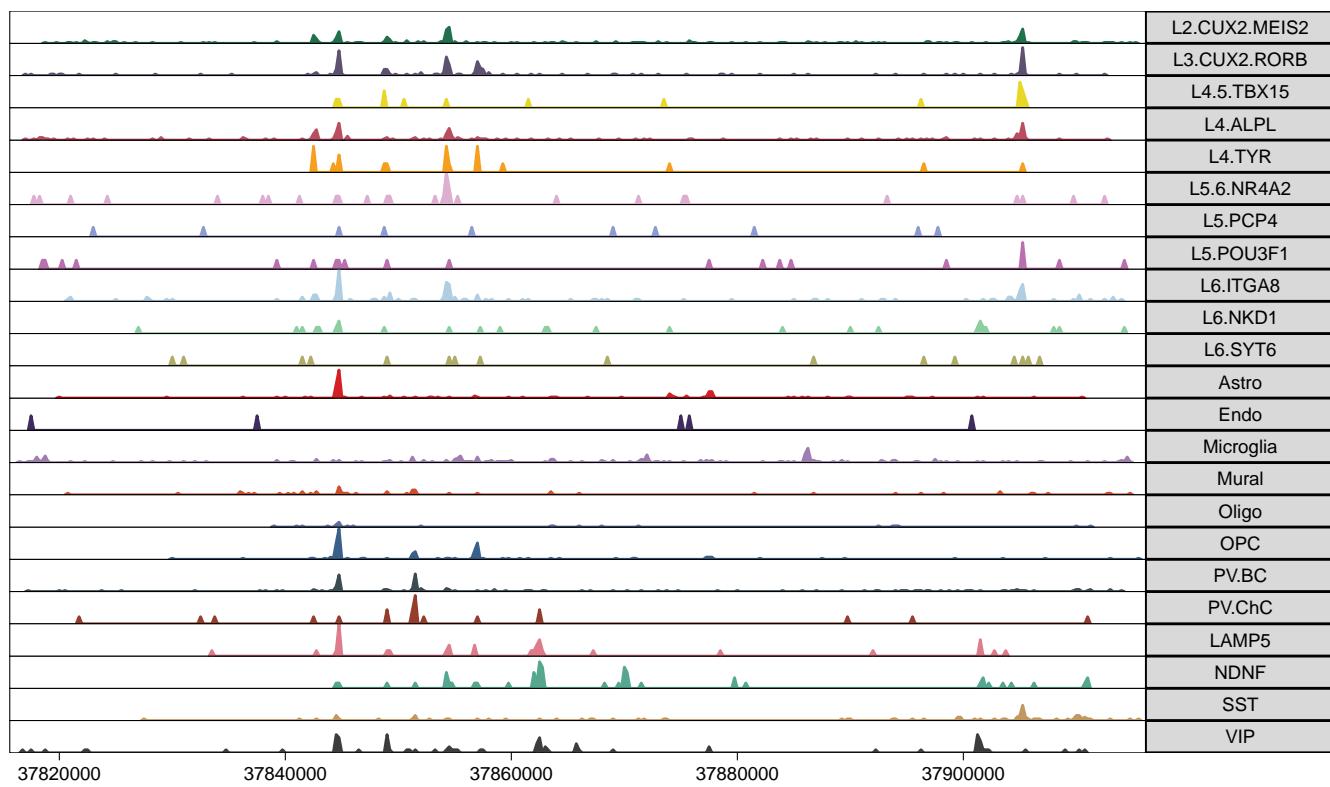
strand



chr6:154847458–154947959 Marker Peak Tracks for: VIP



## chr18:37815613–37916114 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.87) by ReadsInTSS)

VIP

Peaks

LoopTrack

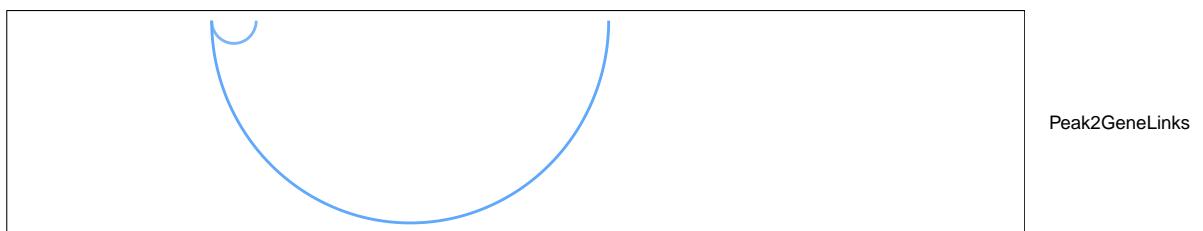
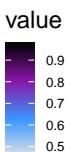
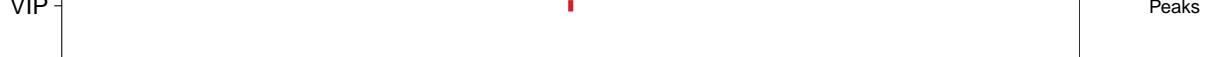
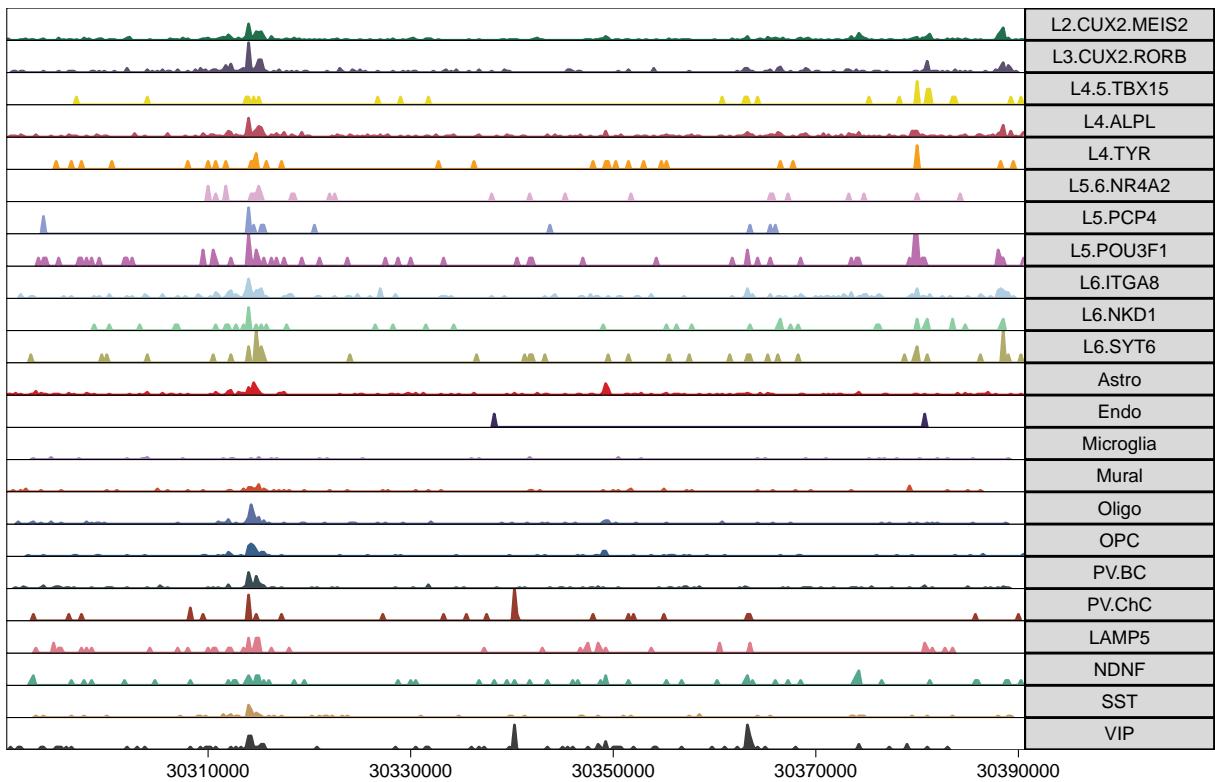
LINC01478

LINC01601

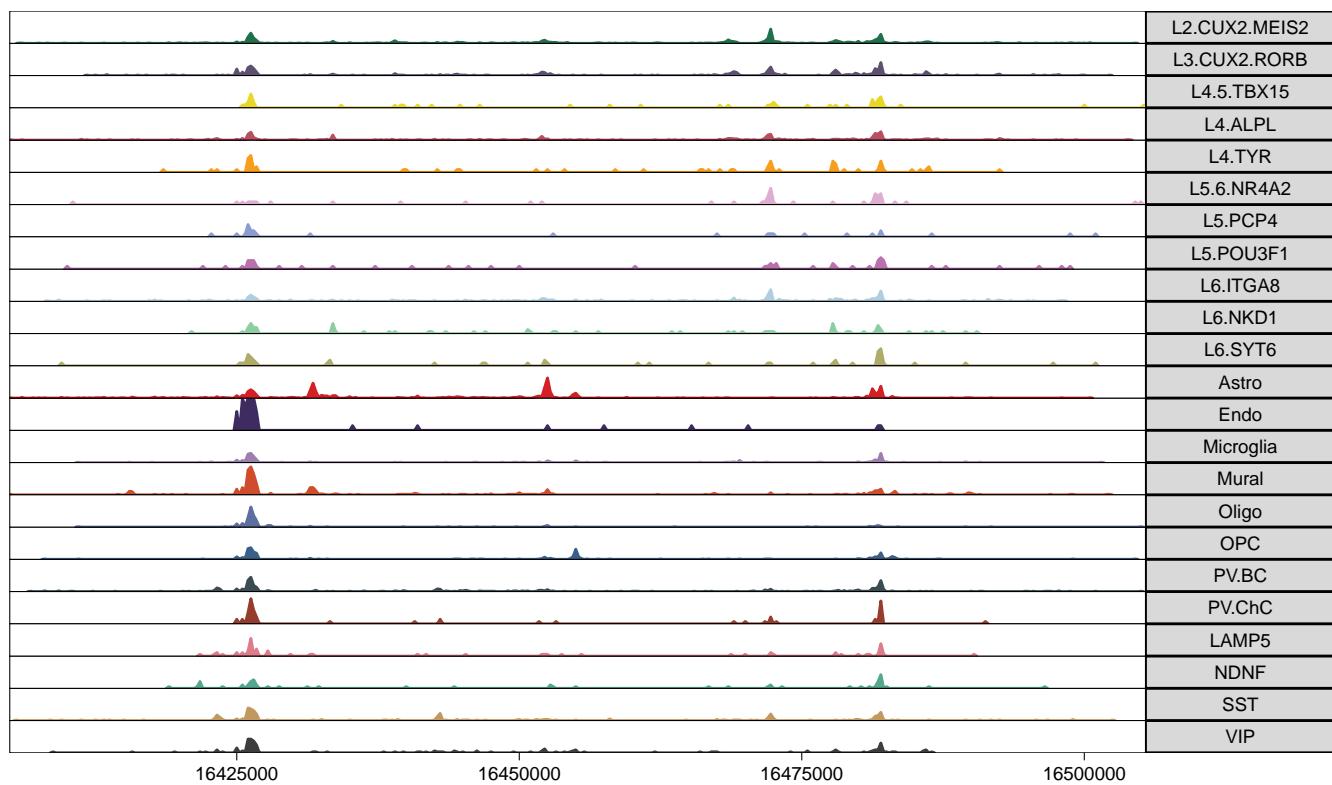
Genes

chr3:30290122–30390623 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.95) by ReadInTSS)



## chr16:16404911–16505412 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–2.68) by ReadsInTSS)

VIP

Peaks

LoopTrack

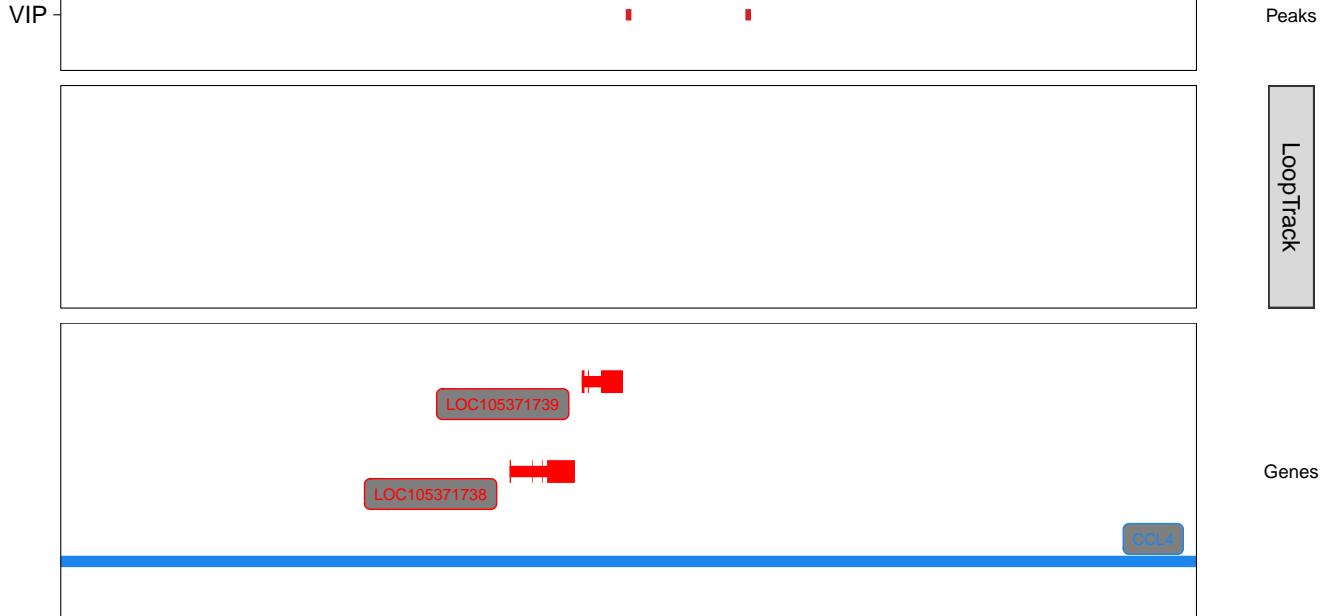
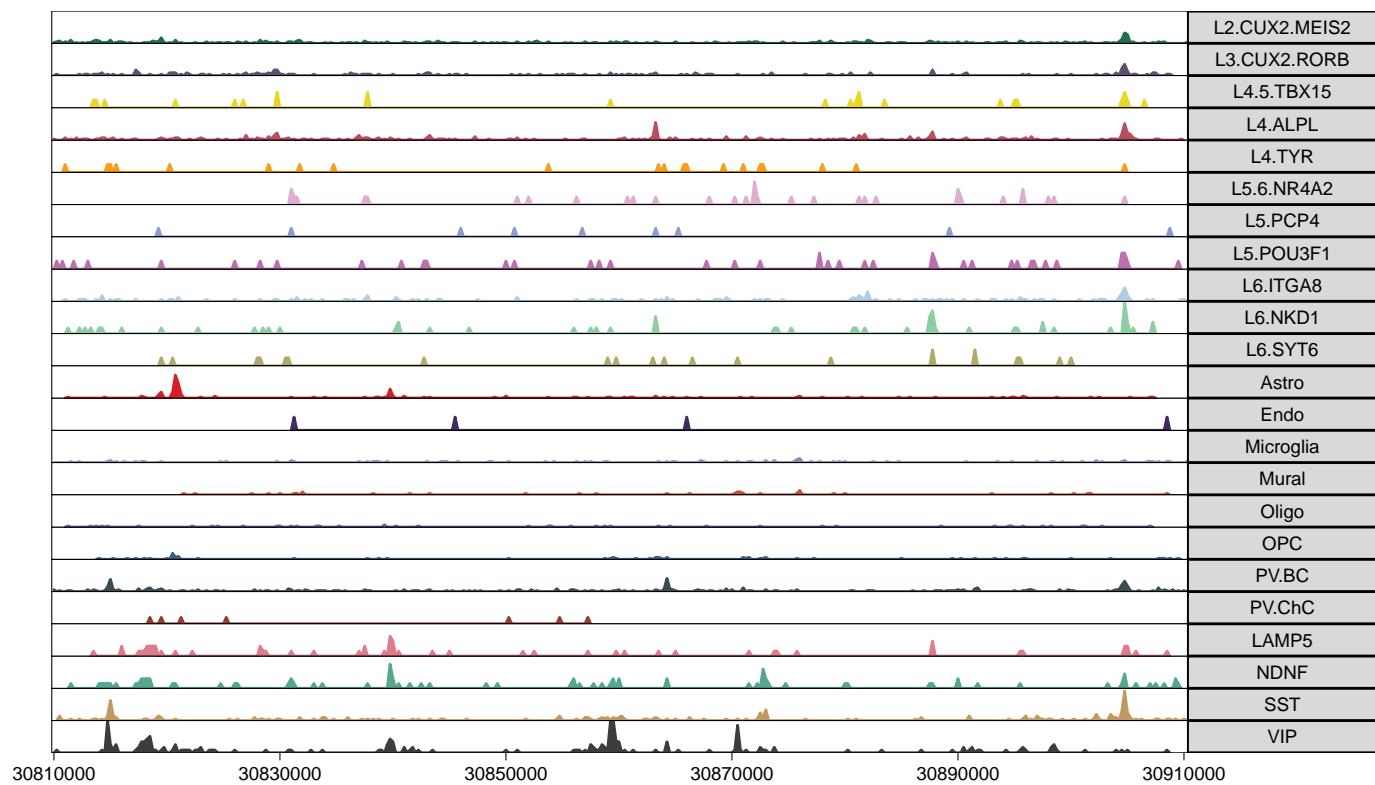
ADORA2B

Genes

ZSWIM7

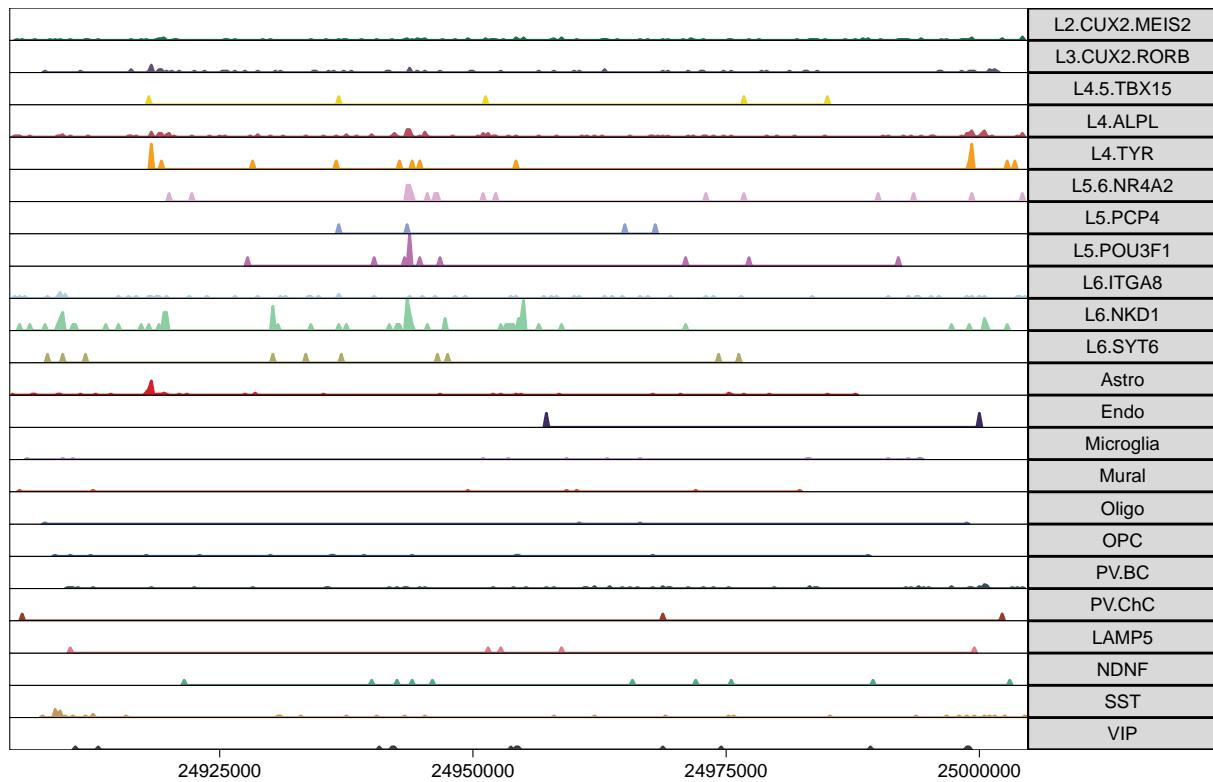
## chr16:30809807–30910308 Marker Peak Tracks for: VIP

Coverage (Norm. ATAC Signal Range (0–0.96) by ReadsInTSS)



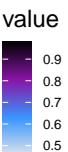
chr6:24904272–25004773 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0-0.9) by ReadInTSS)



24925000 24950000 24975000 25000000

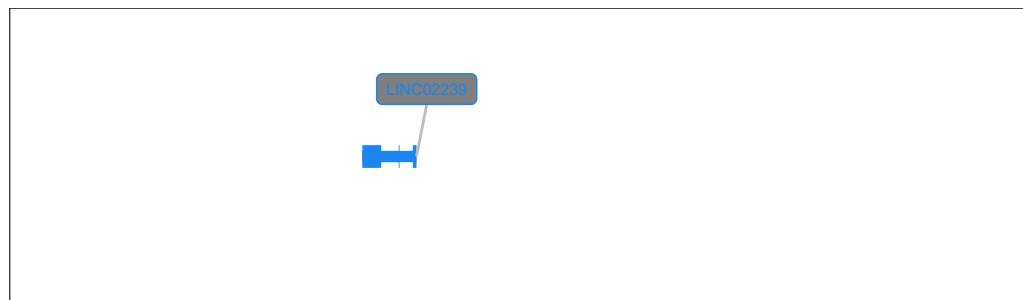
VIP - Peaks



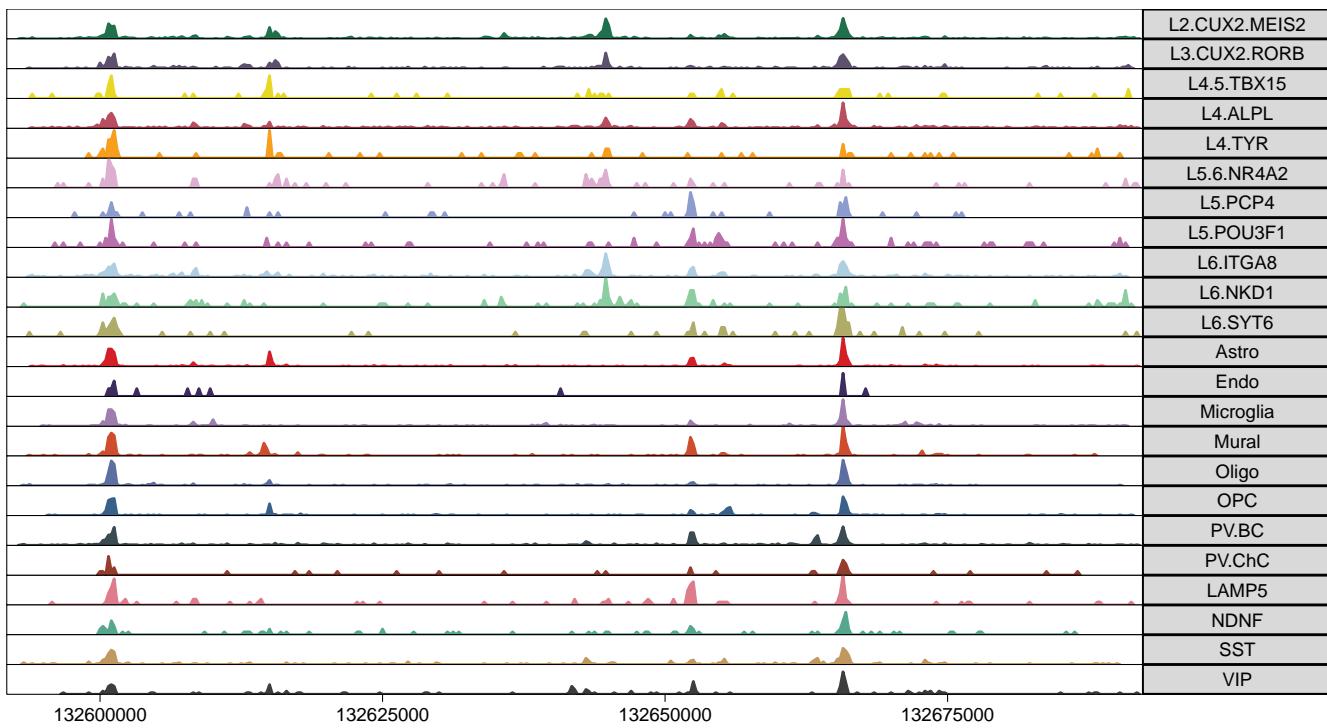
Peak2GeneLinks



Genes



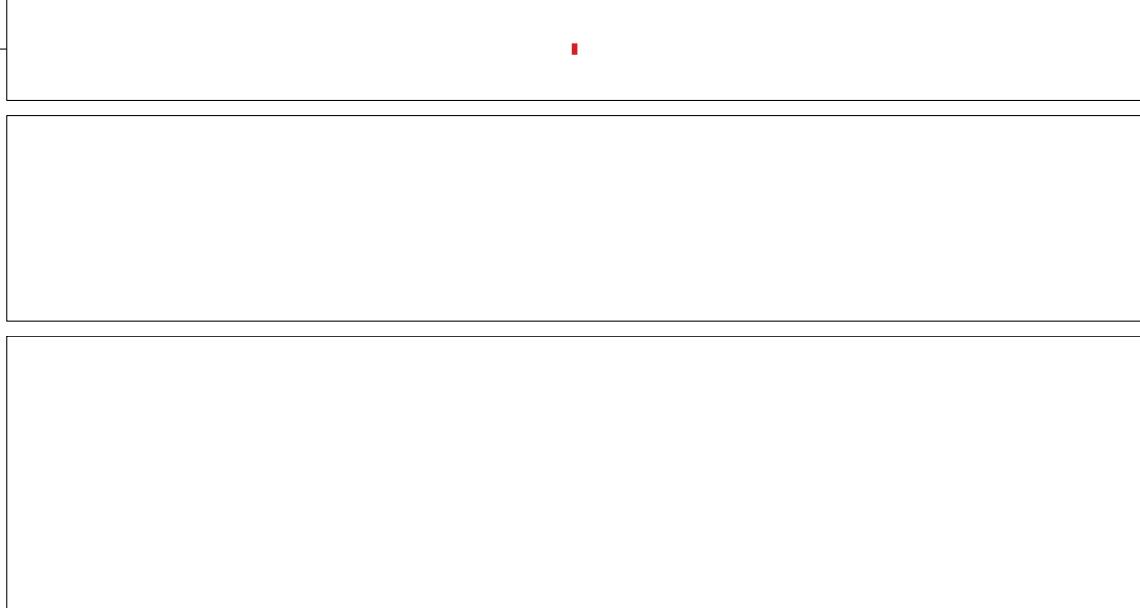
## chr11:132591744–132692245 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.5) by ReadstTSS)

132600000 132625000 132650000 132675000

VIP

Peaks

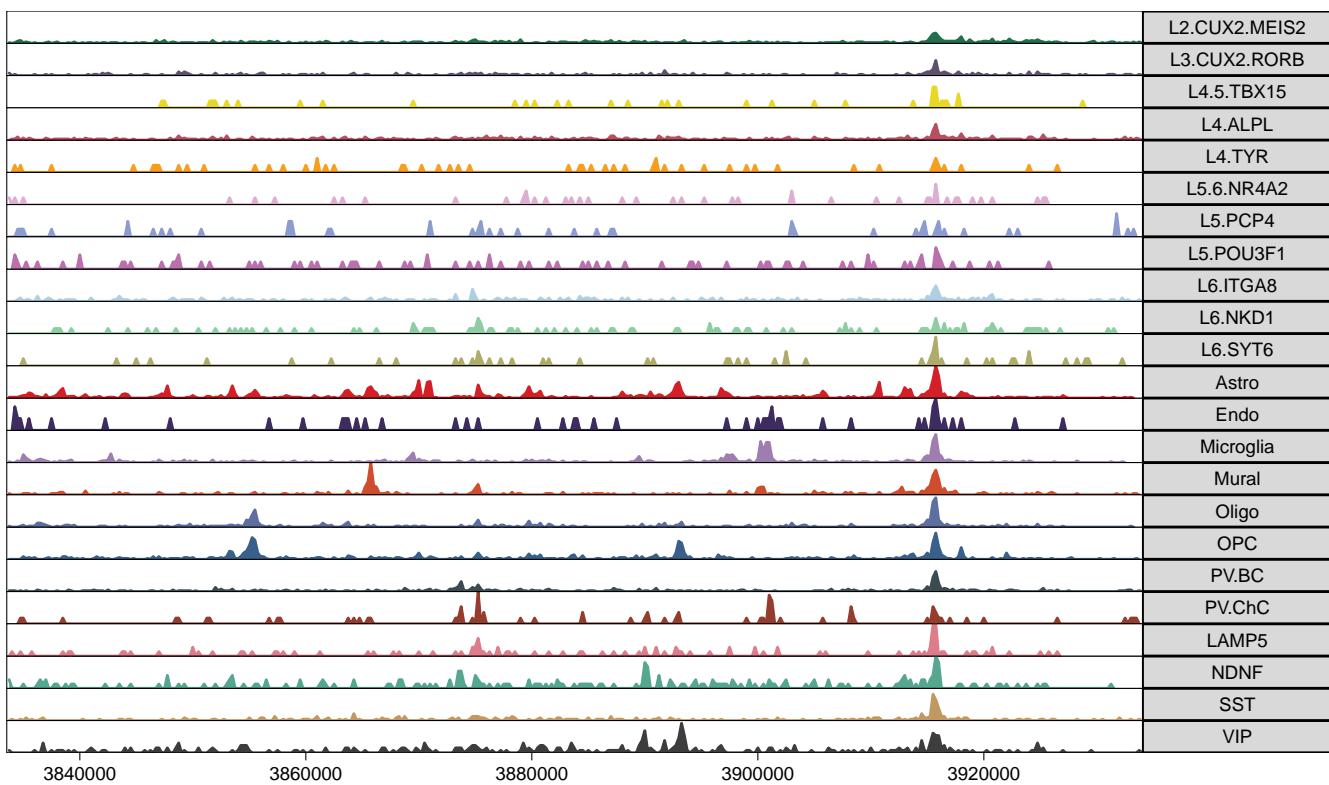


LoopTrack

GeneTrack

strand ● •

## chr15:3833534–3934035 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.07) by ReadsInTSS)

3840000 3860000 3880000 3900000 3920000

VIP

Peaks

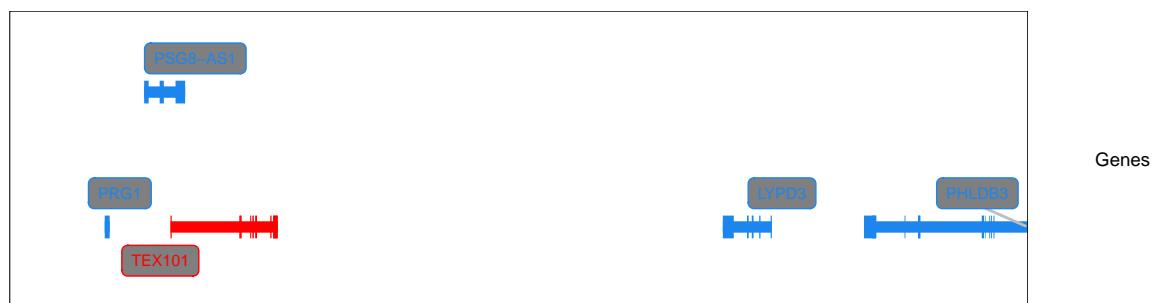
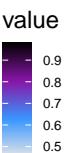
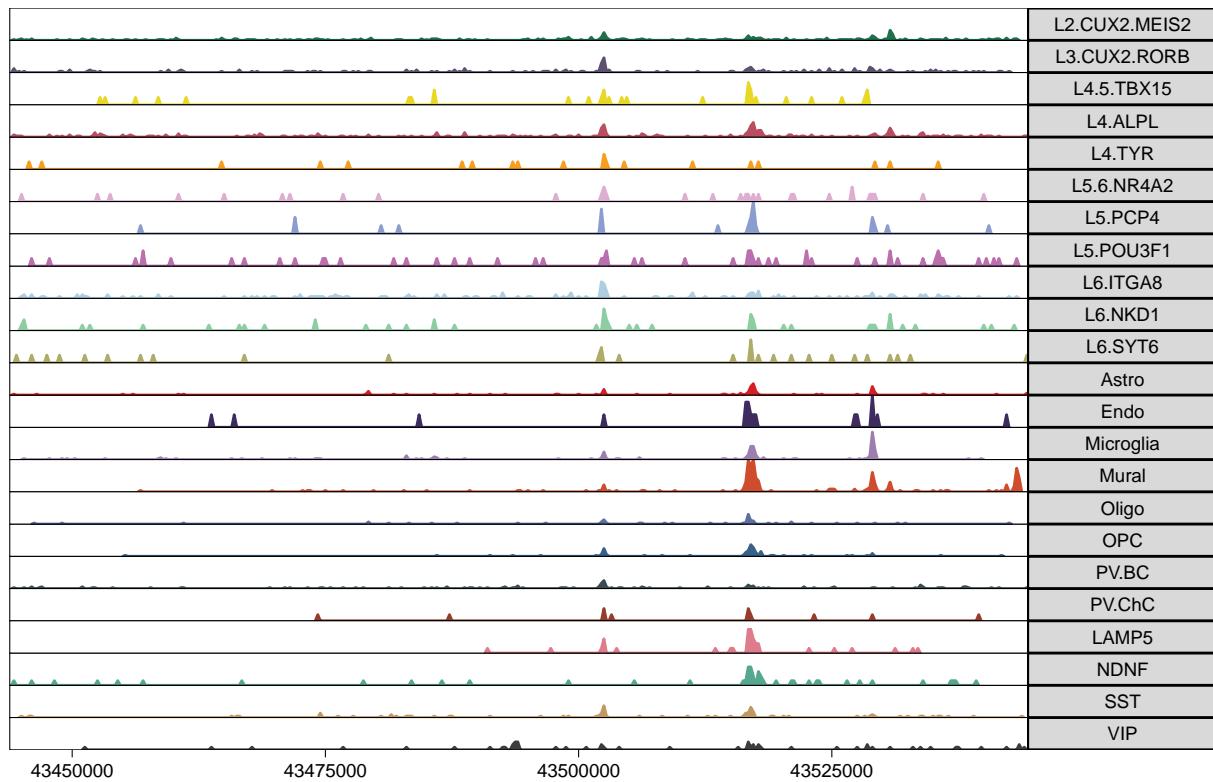
LoopTrack

RXRA

Genes

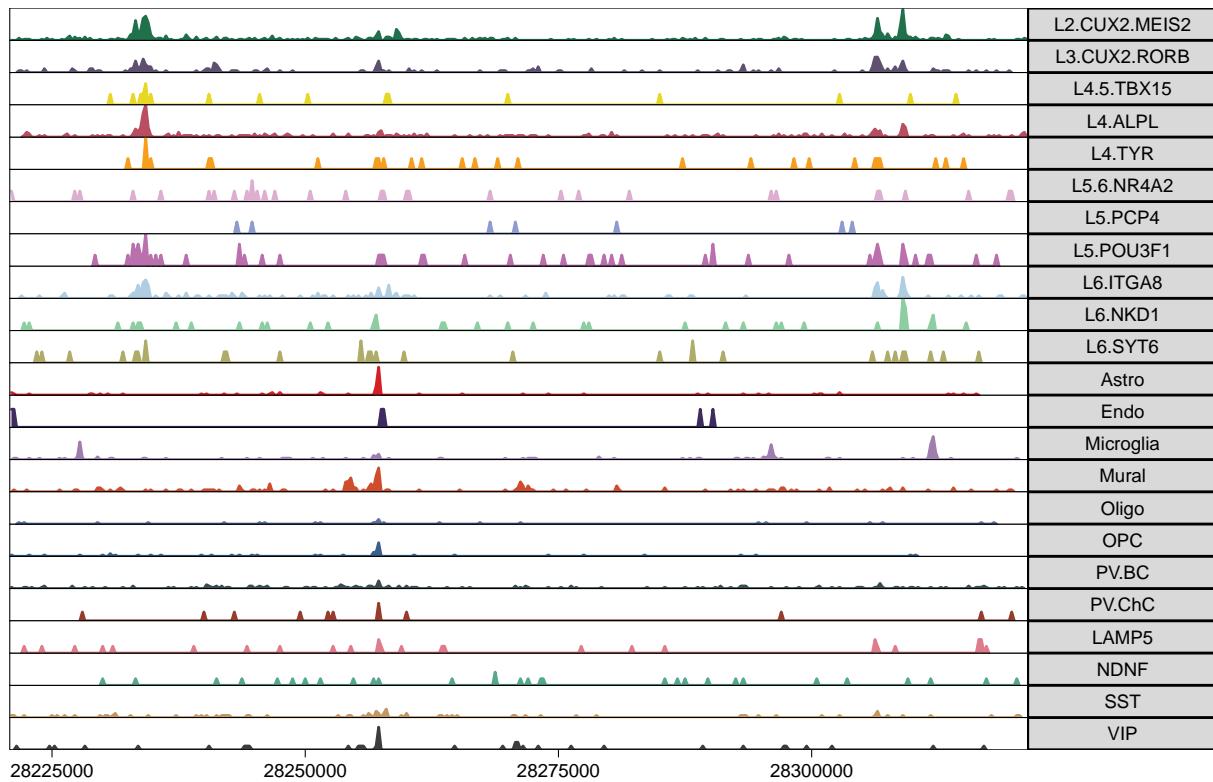
chr19:43443837–43544338 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1) by ReadsInTSS)

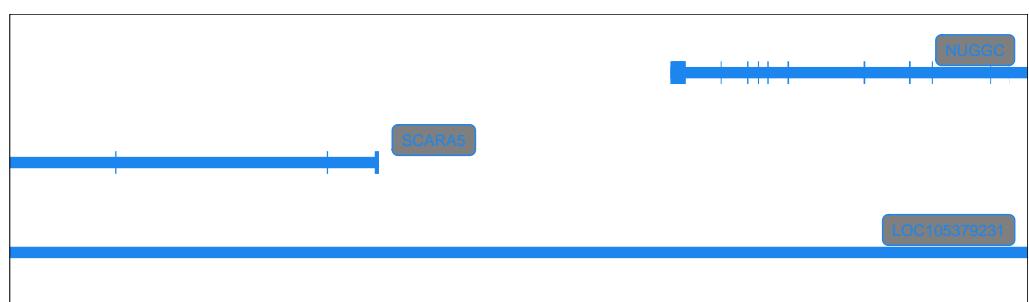
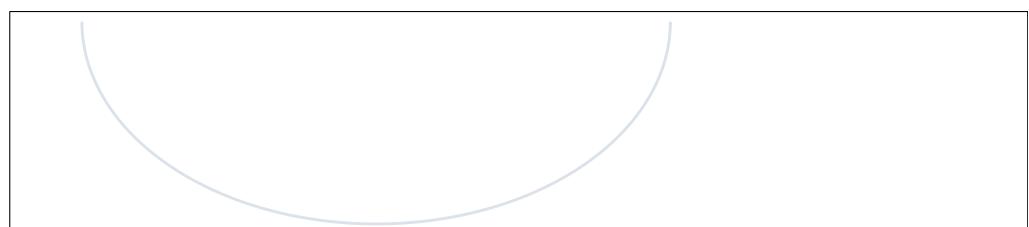
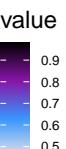


chr8:28220827–28321328 Marker Peak Tracks for: VIP

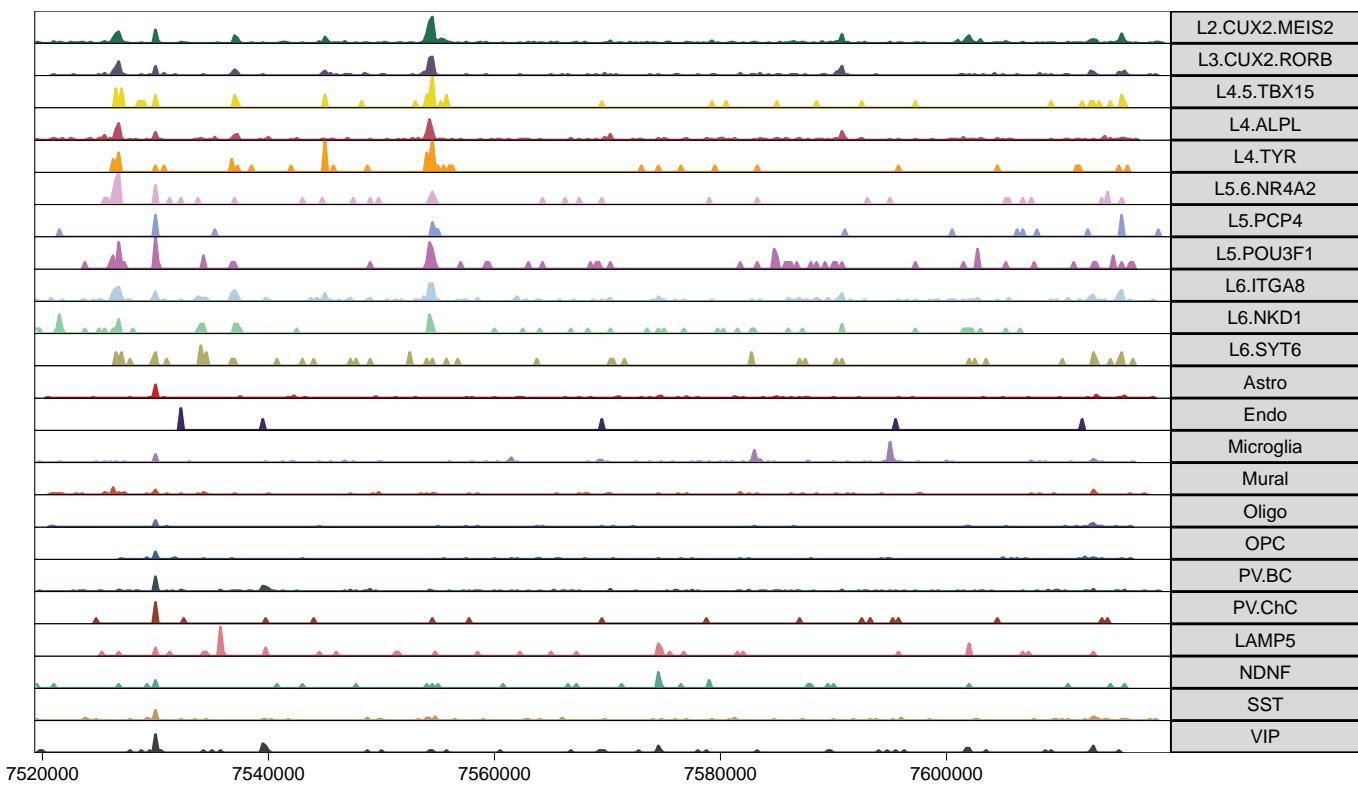
Coverage  
(Norm. ATAC Signal Range (0-0.7) by ReadsInTSS)



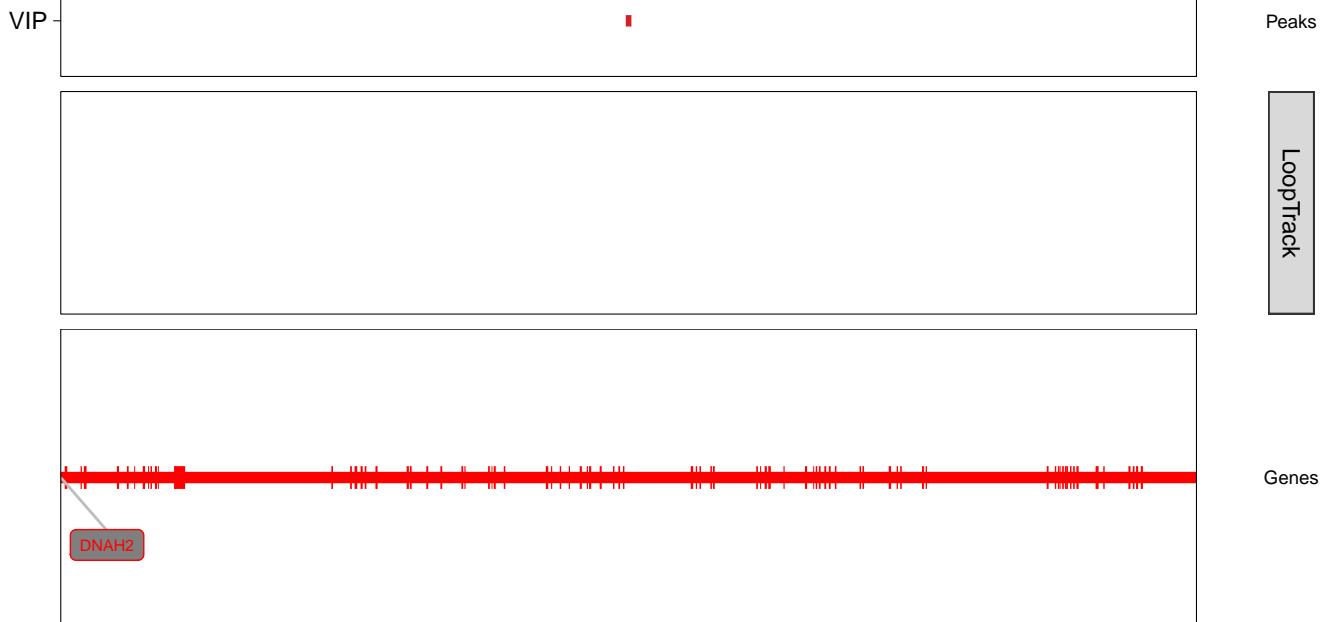
28225000 28250000 28275000 28300000



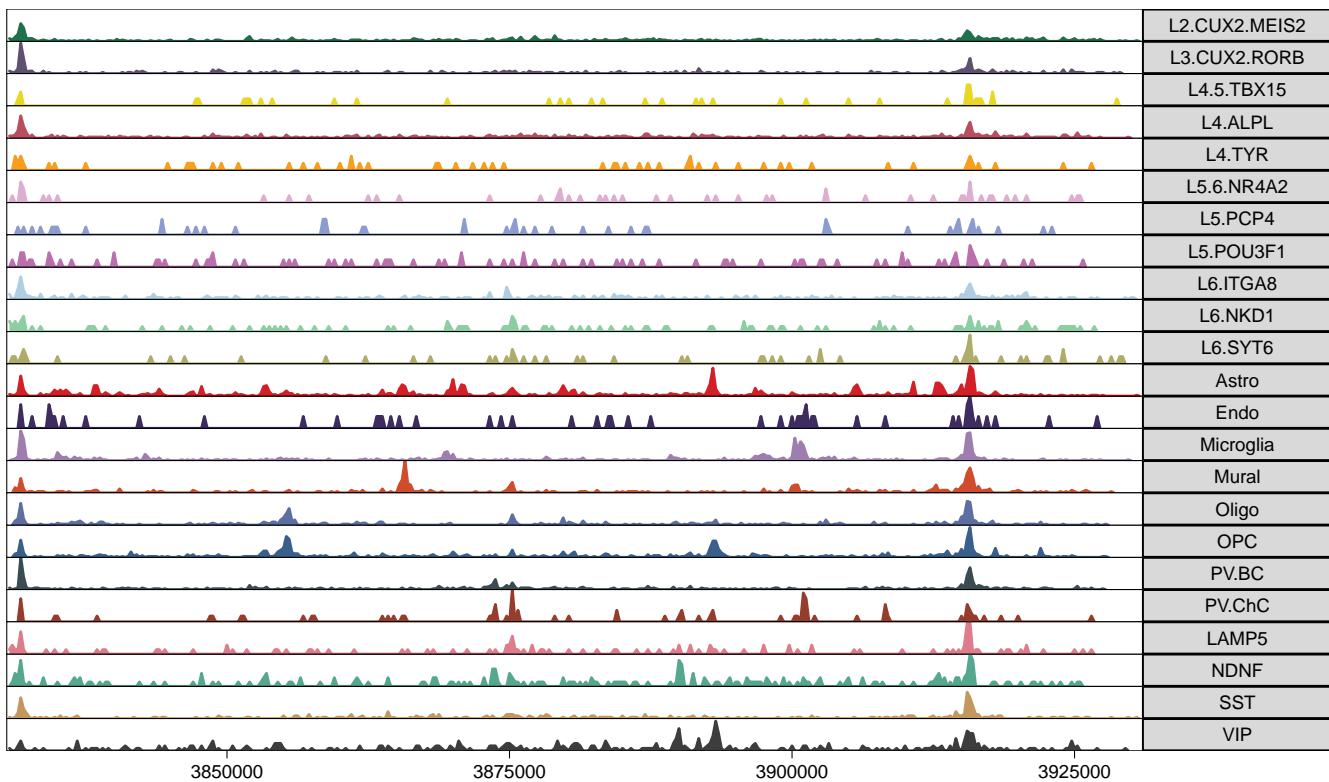
## chr16:7519317–7619818 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.15) by ReadsInTSS)

7520000 7540000 7560000 7580000 7600000



## chr15:3830509–3931010 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.06) by ReadsInTSS)

VIP

Peaks

LoopTrack

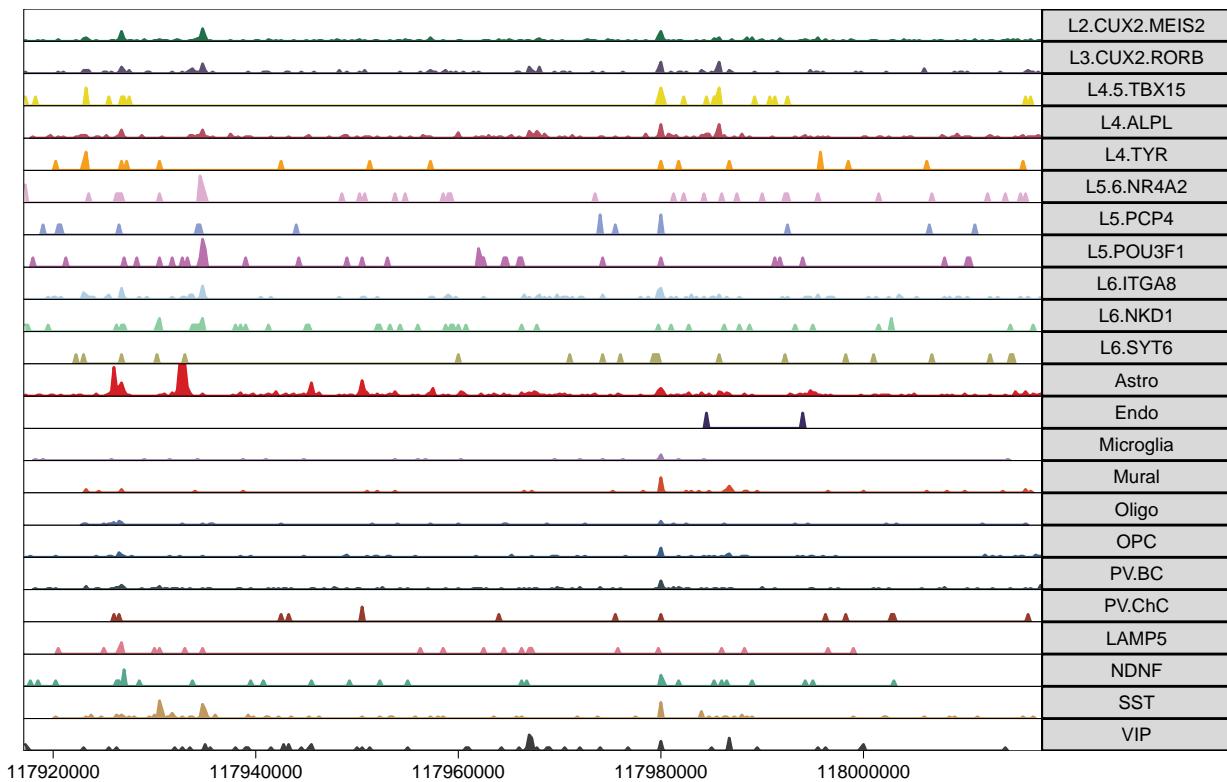
RXRA

Genes



chr9:117917095–118017596 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.83) by ReadsInTSS)

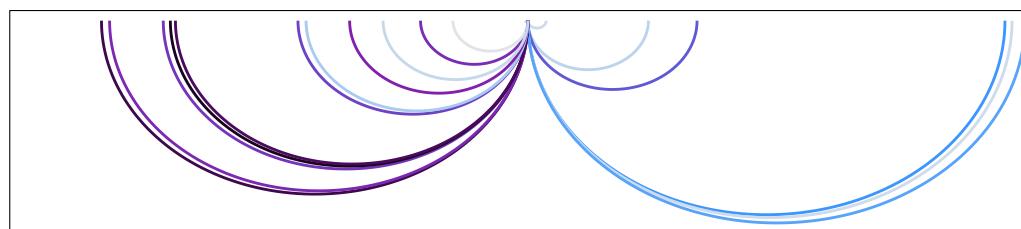


117920000      117940000      117960000      117980000      118000000

VIP - Peaks



Peak2GeneLinks



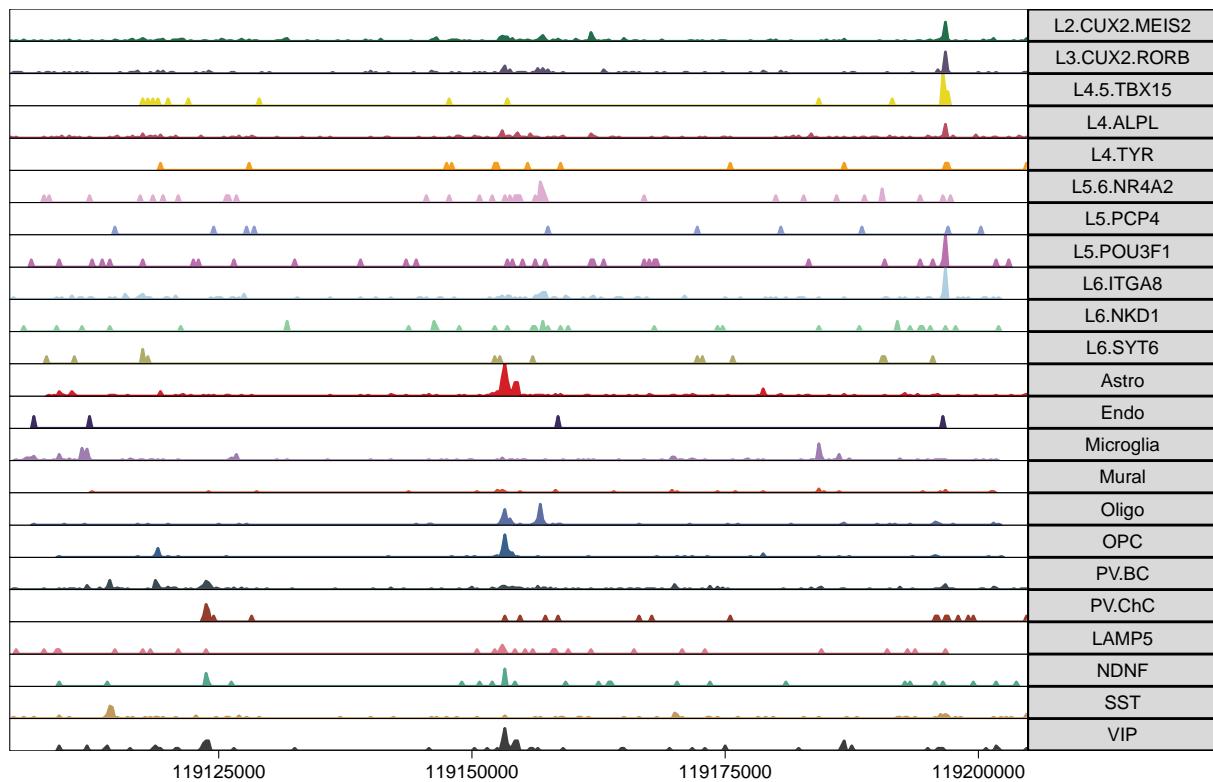
EMX2OS

Genes

LOC105378502

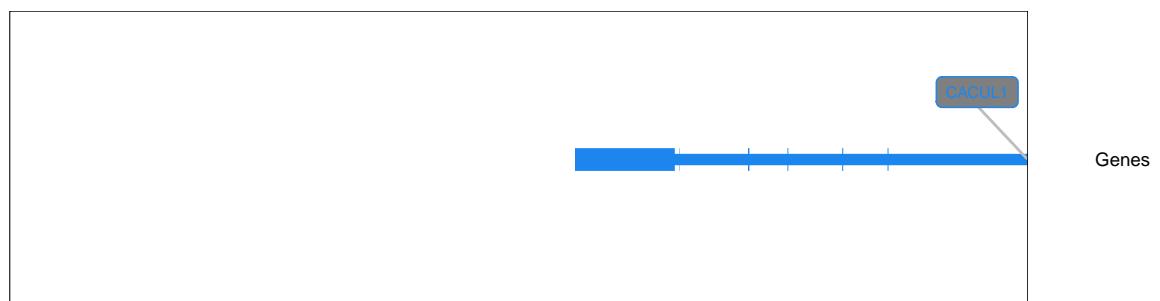
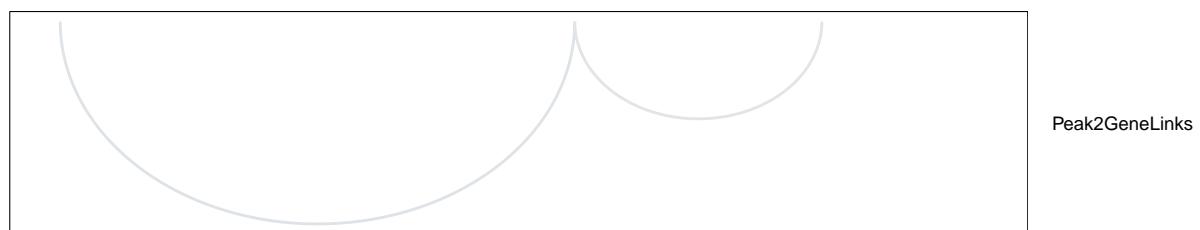
chr9:119104369–119204870 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.06) by ReadsInTSS)



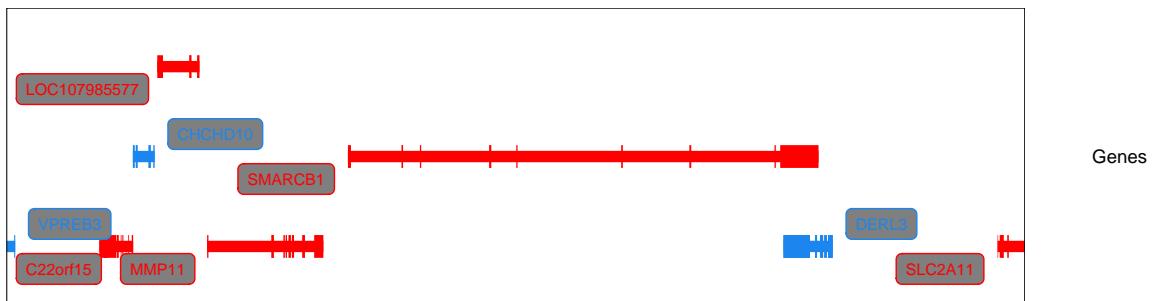
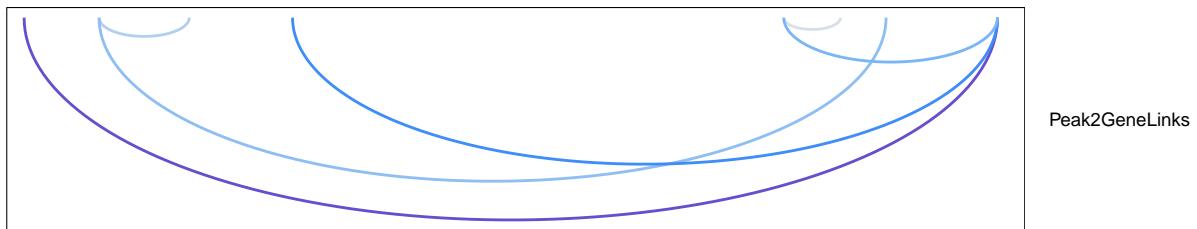
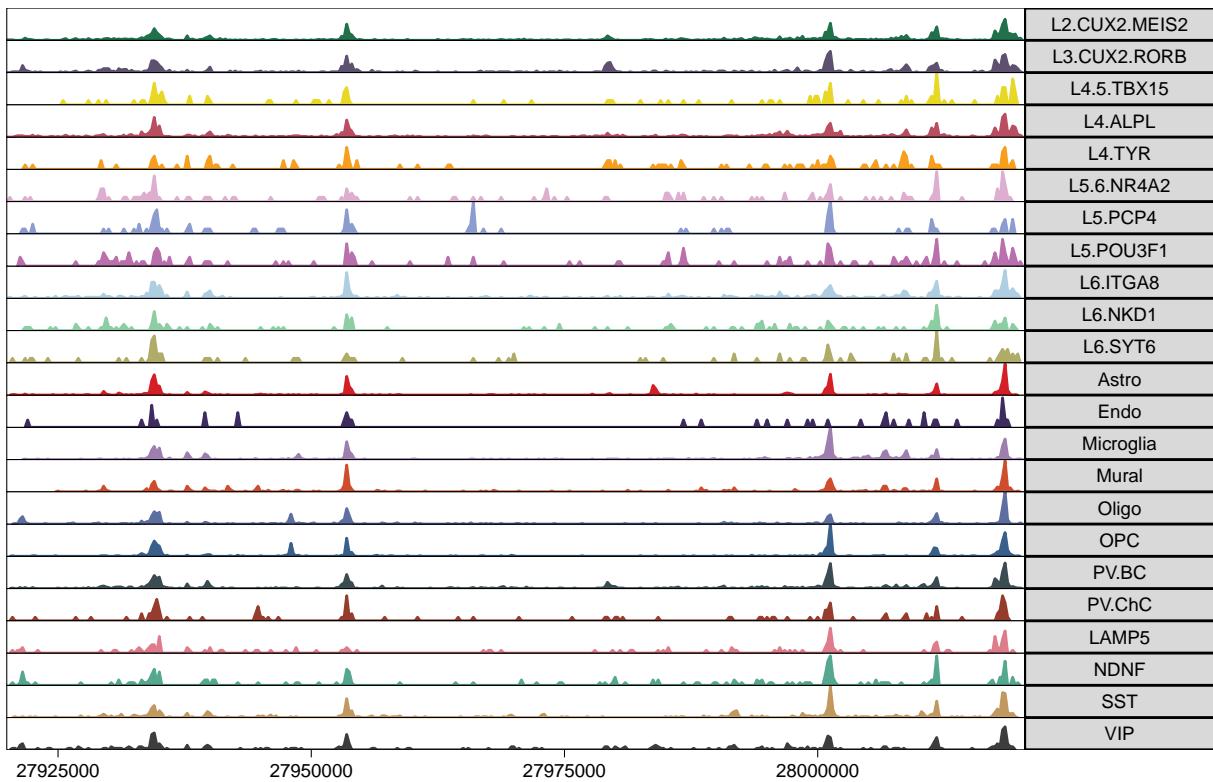
value

0.9
0.8
0.7
0.6
0.5

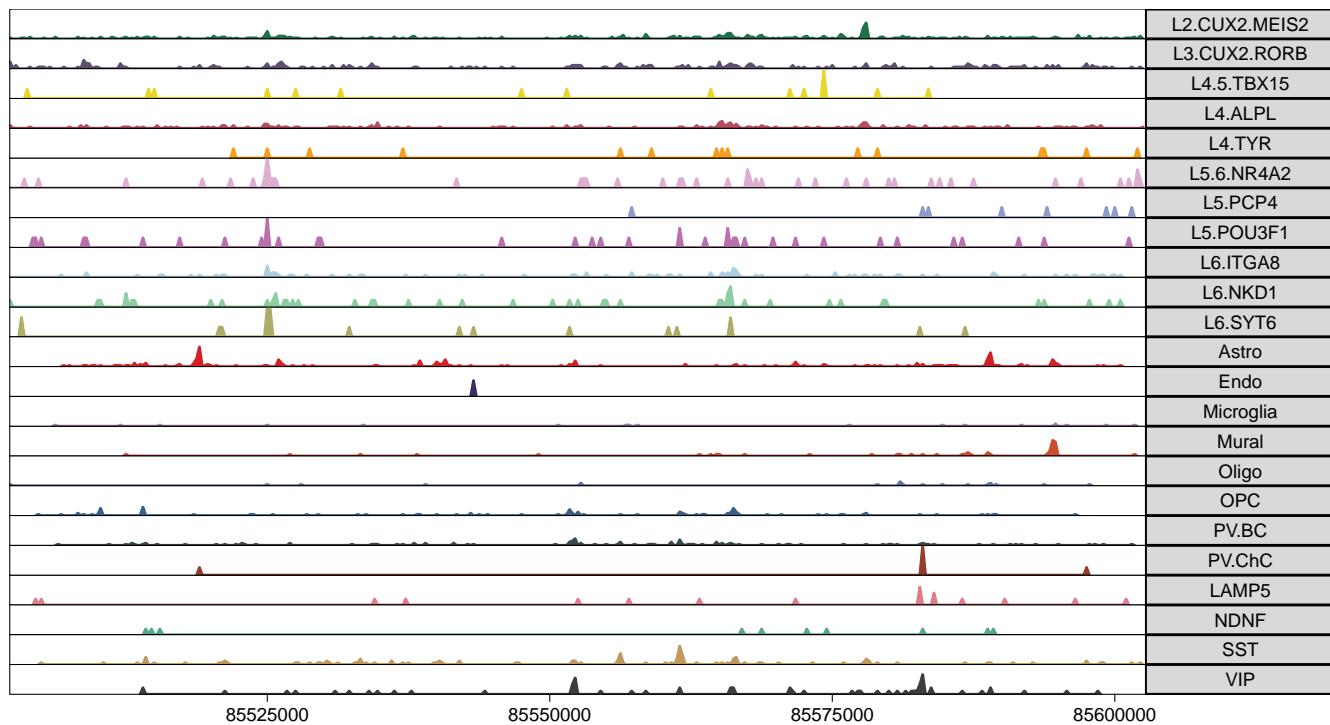


# chr10:27919936–28020437 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.71) by ReadsInTSS)



## chr14:85502211–85602712 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.74) by ReadstTSS)

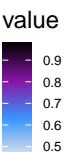
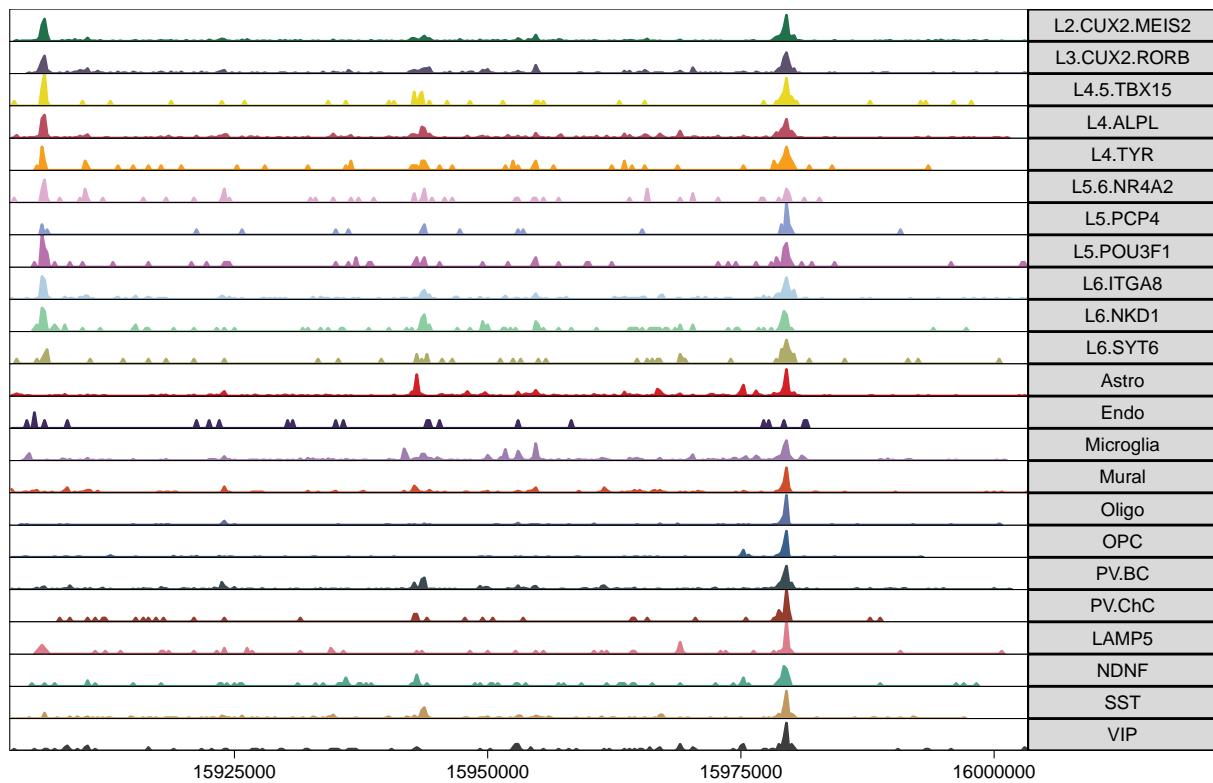
85525000 85550000 85575000 85600000



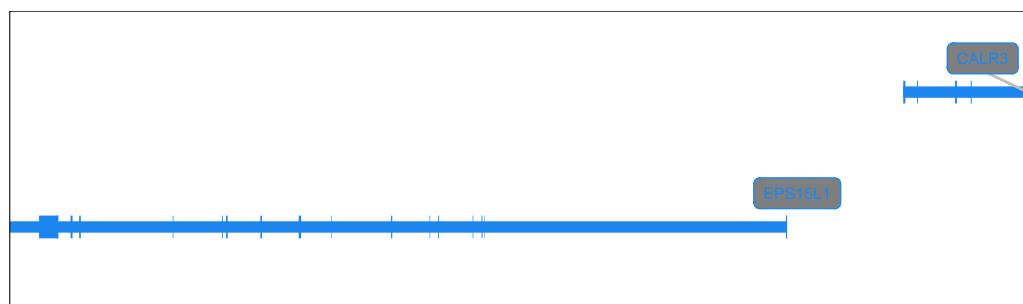
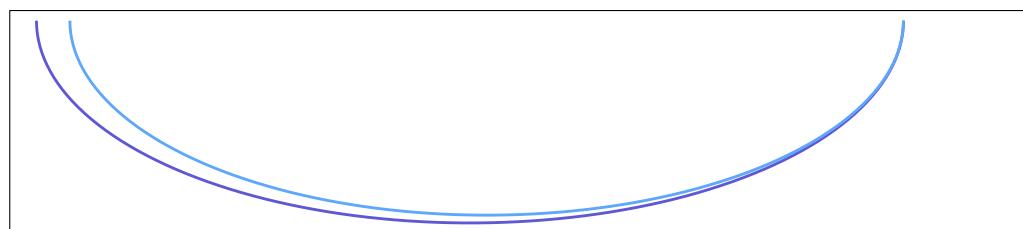
strand ● •

chr19:15902815–16003316 Marker Peak Tracks for: VIP

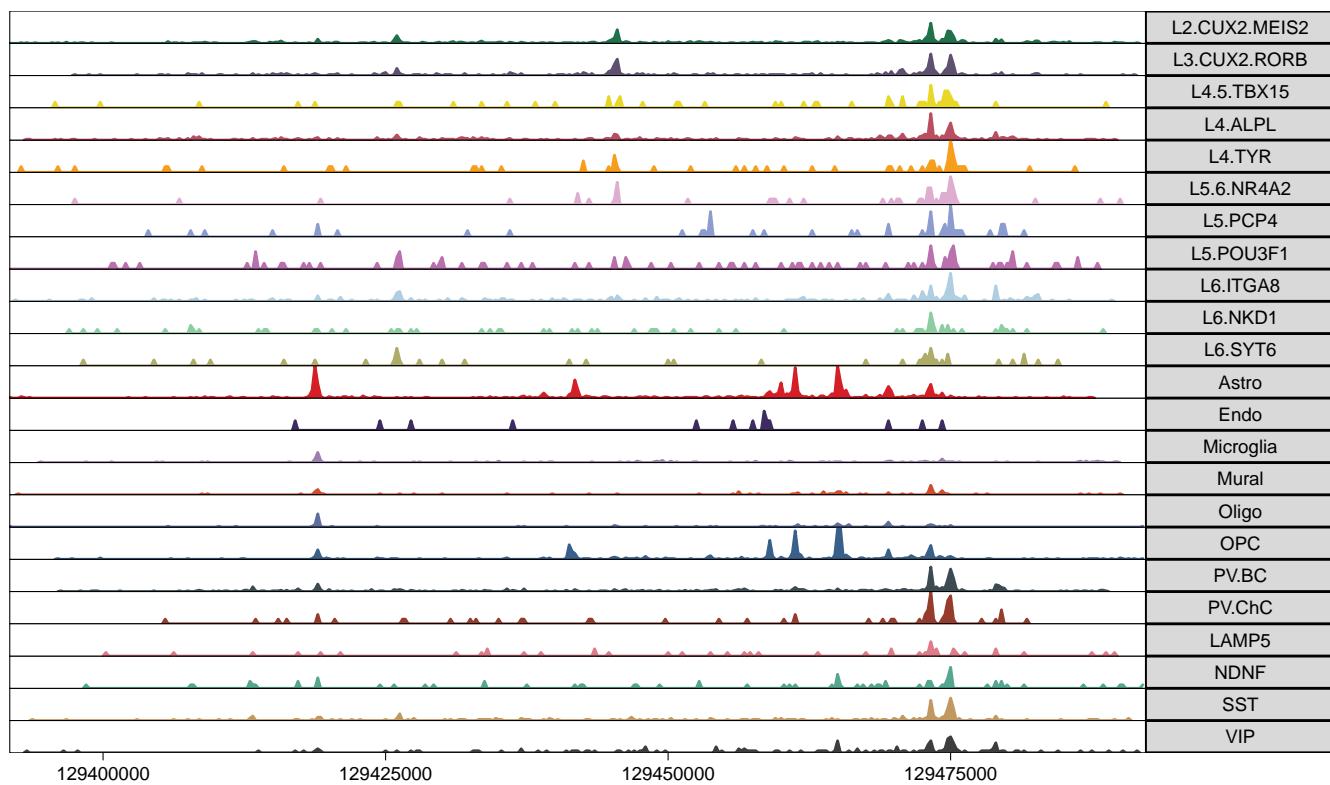
Coverage  
(Norm. ATAC Signal Range (0–1.6) by ReadsInTSS)



Peak2GeneLinks



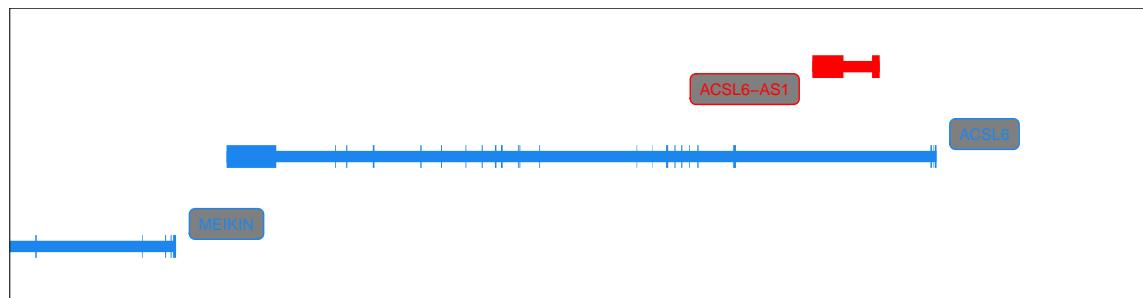
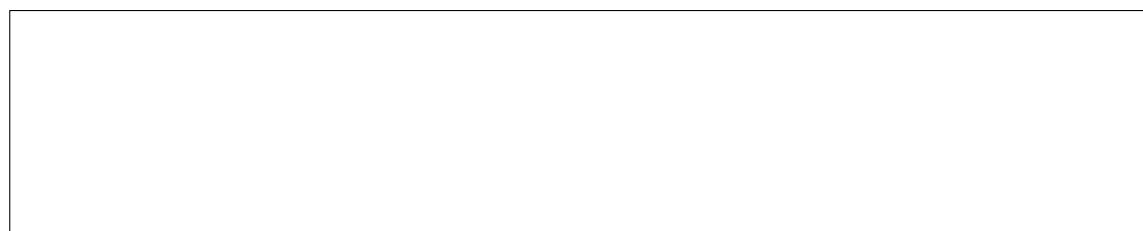
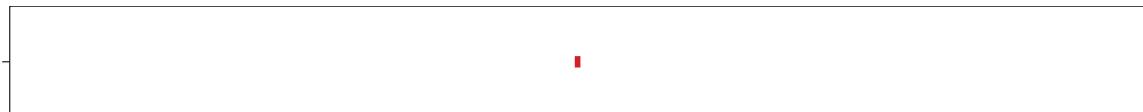
## chr6:129391741–129492242 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.31) by ReadInTSS)

VIP

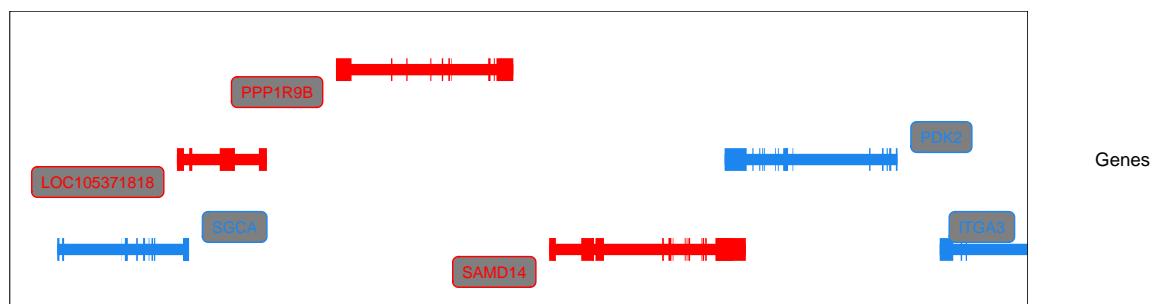
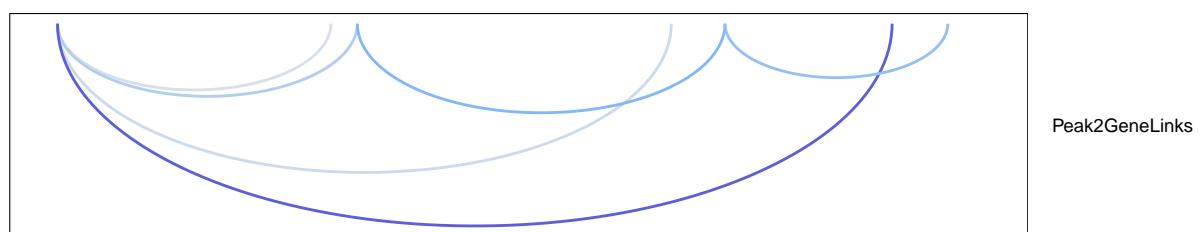
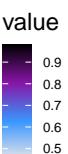
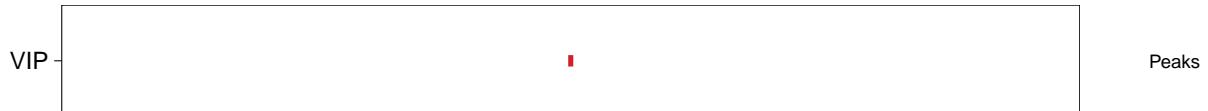
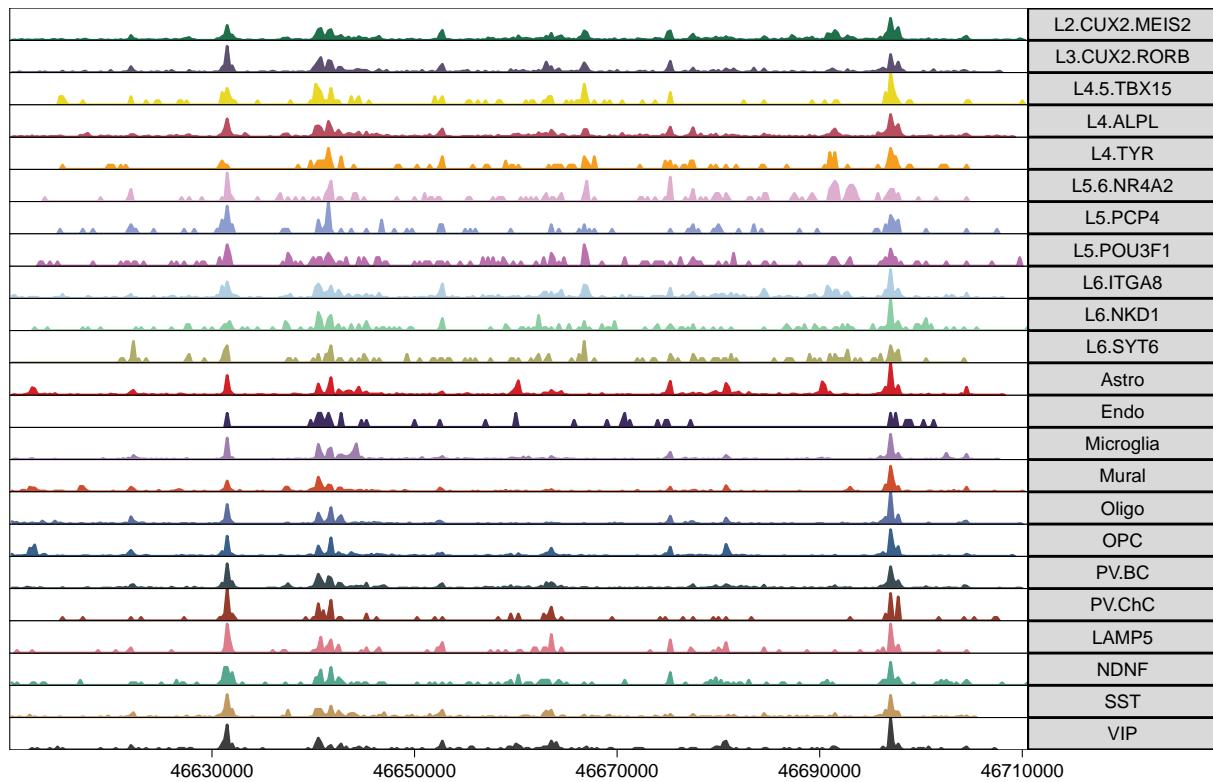
Peaks

LoopTrack

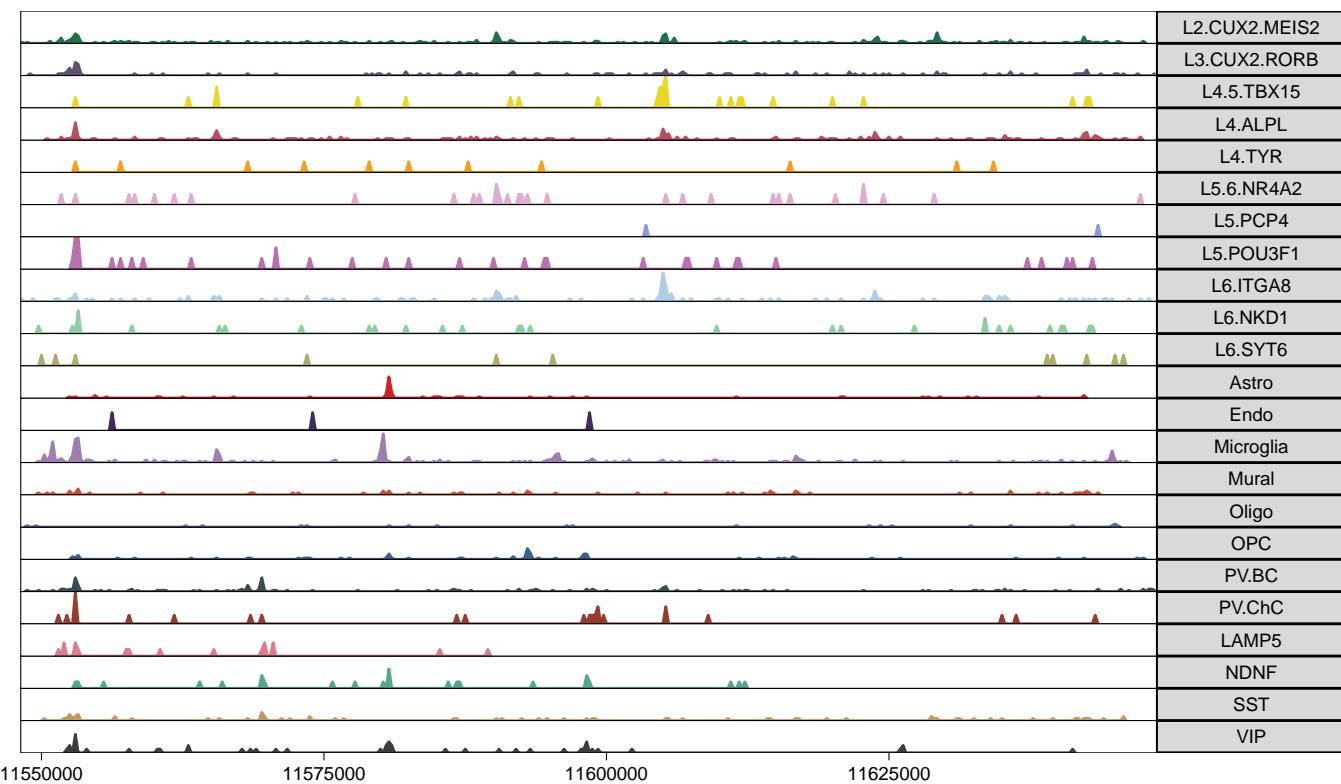


# chr16:46610035–46710536 Marker Peak Tracks for: VIP

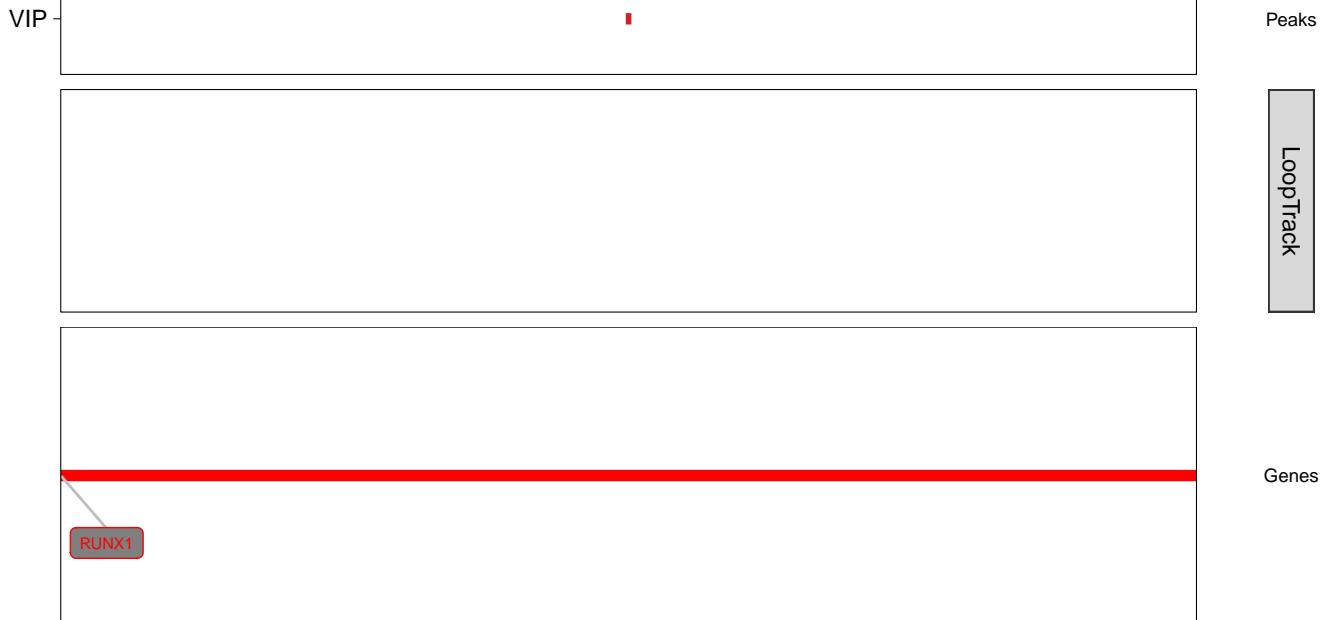
Coverage  
(Norm. ATAC Signal Range (0–1.79) by ReadsInTSS)



## chr3:11548168–11648669 Marker Peak Tracks for: VIP

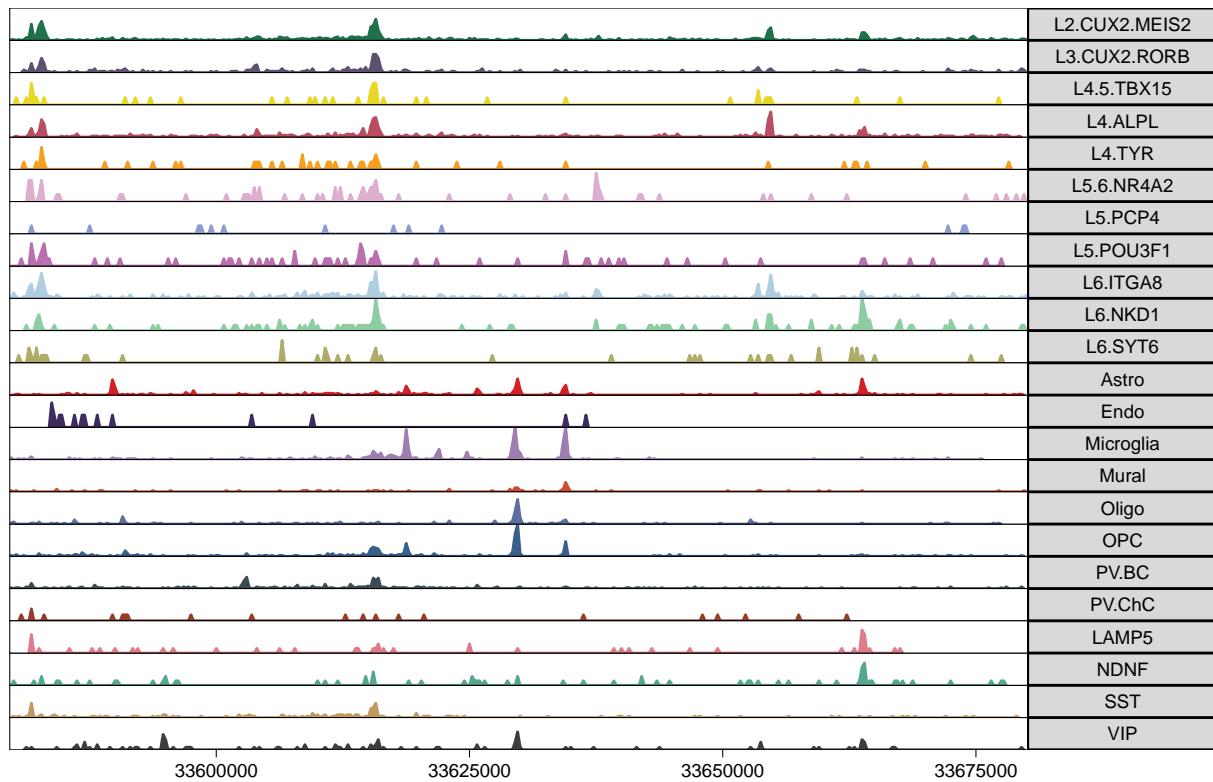
Coverage  
(Norm. ATAC Signal Range (0–0.7) by ReadsInTSS)

11550000 11575000 11600000 11625000



chr10:33579610–33680111 Marker Peak Tracks for: VIP

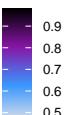
Coverage  
(Norm. ATAC Signal Range (0–1.03) by ReadsInTSS)



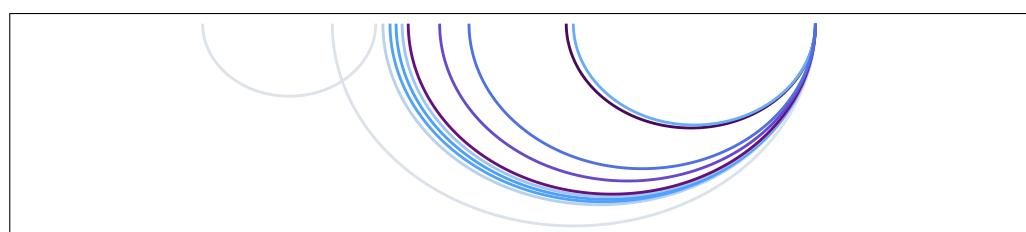
33600000 33625000 33650000 33675000

VIP - Peaks

value

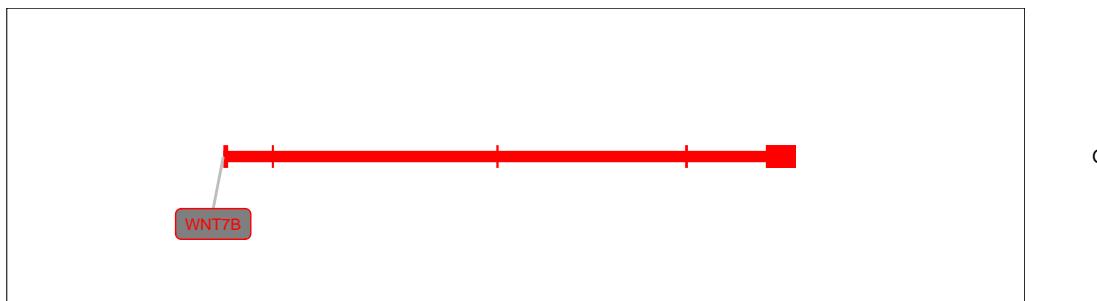
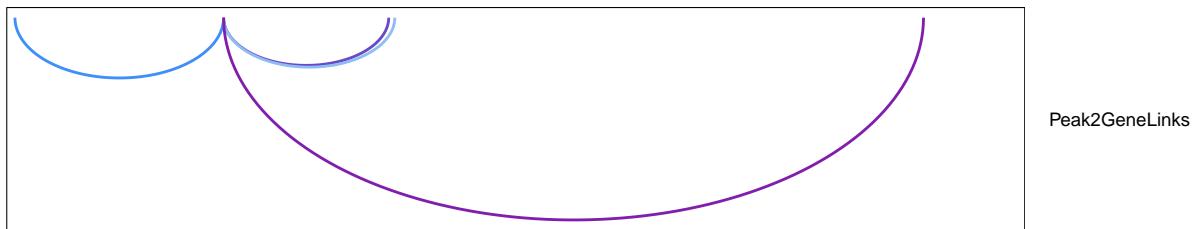
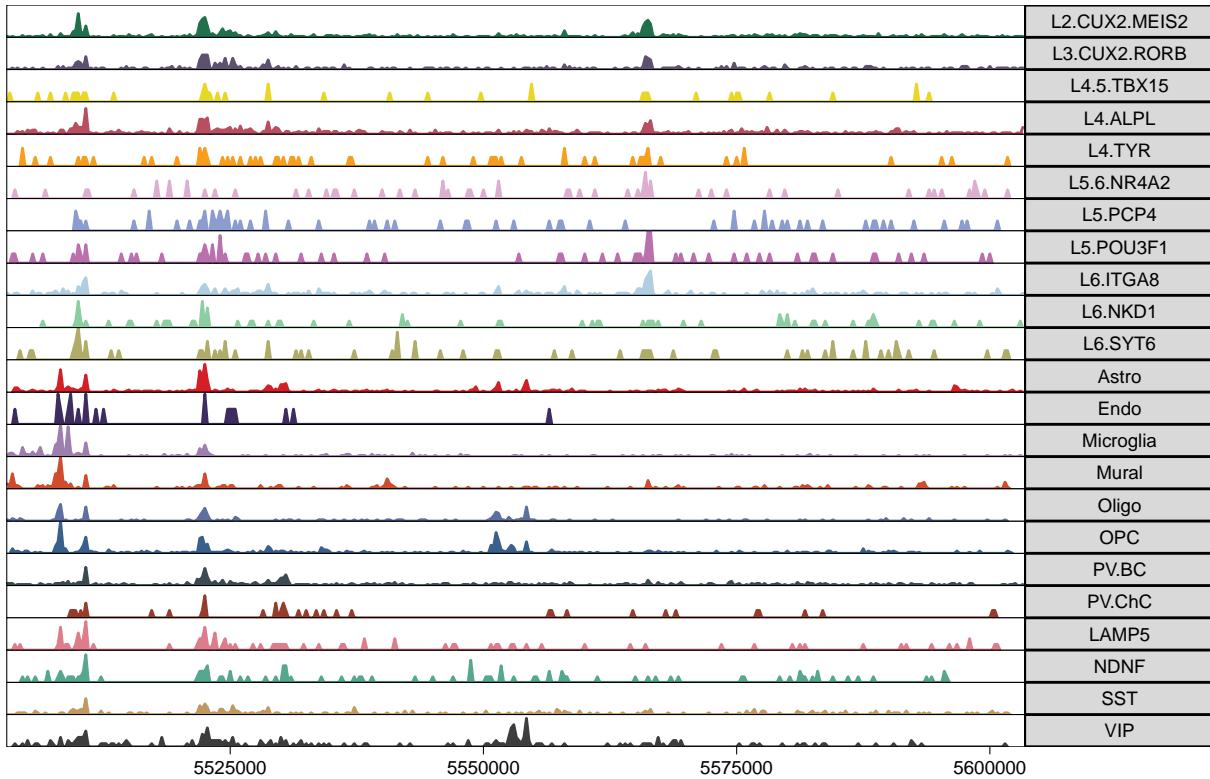


Peak2GeneLinks

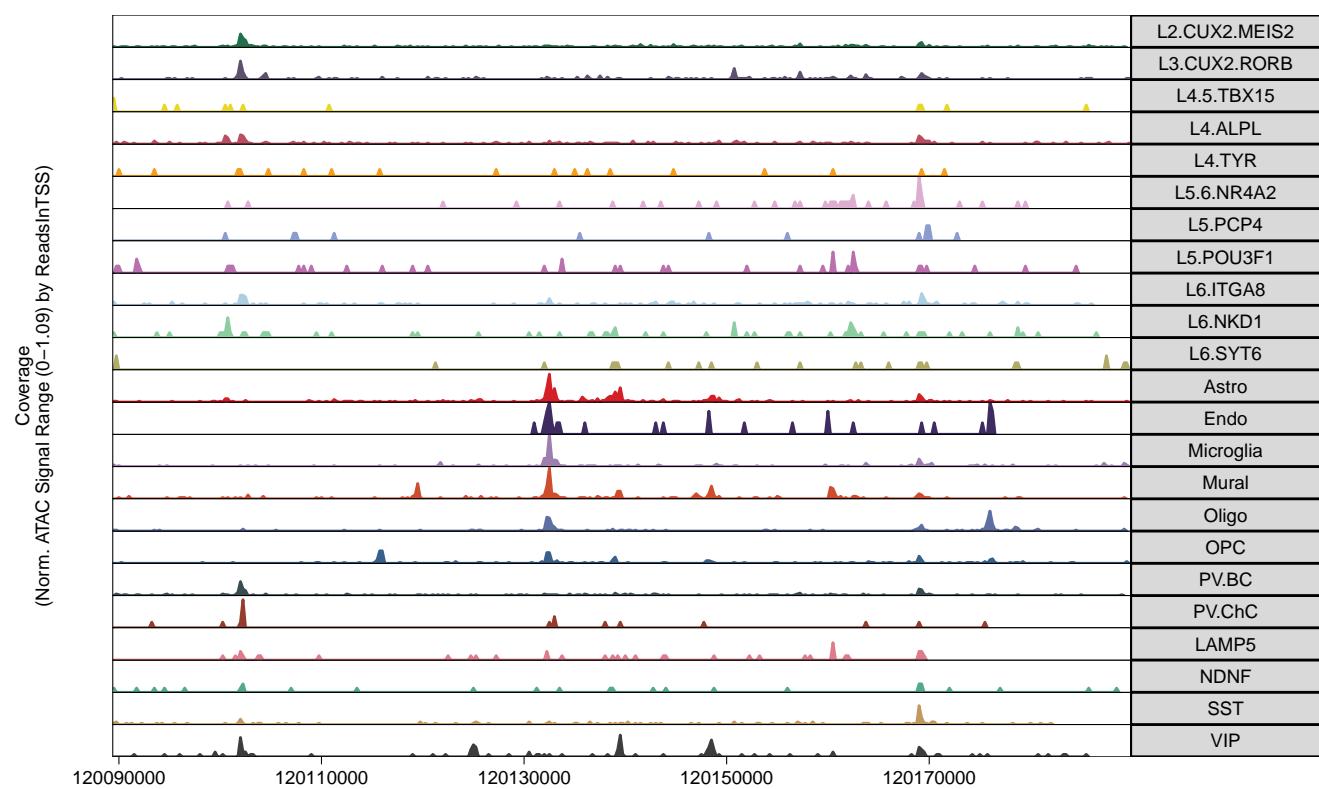


chr10:5502940–5603441 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.83) by ReadsInTSS)

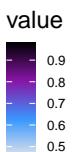


chr9:120089392–120189893 Marker Peak Tracks for: VIP

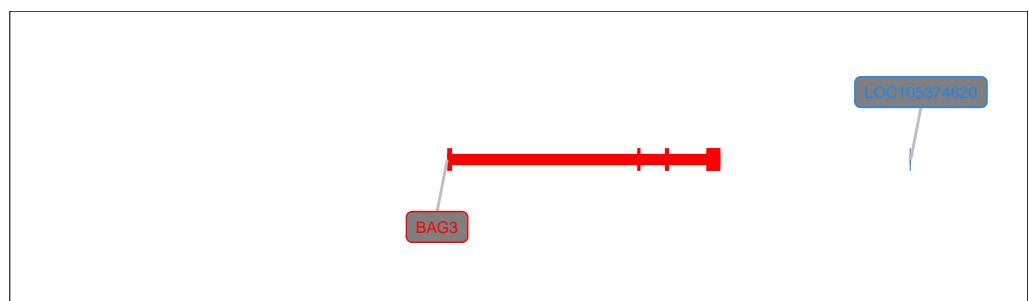
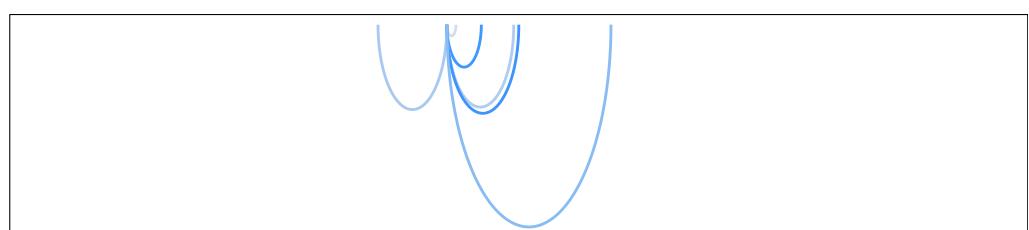


120090000 120110000 120130000 120150000 120170000

VIP - Peaks

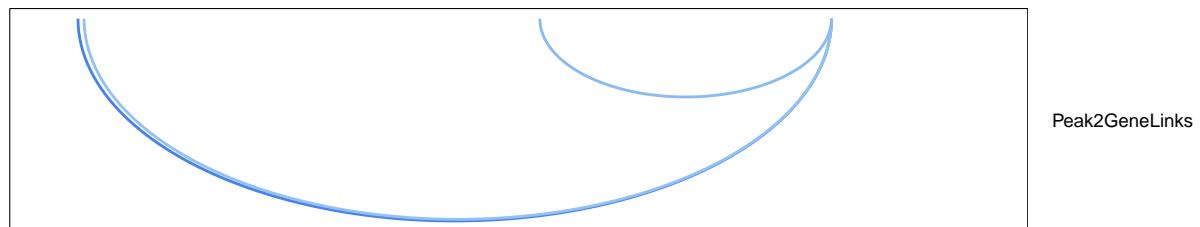
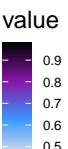
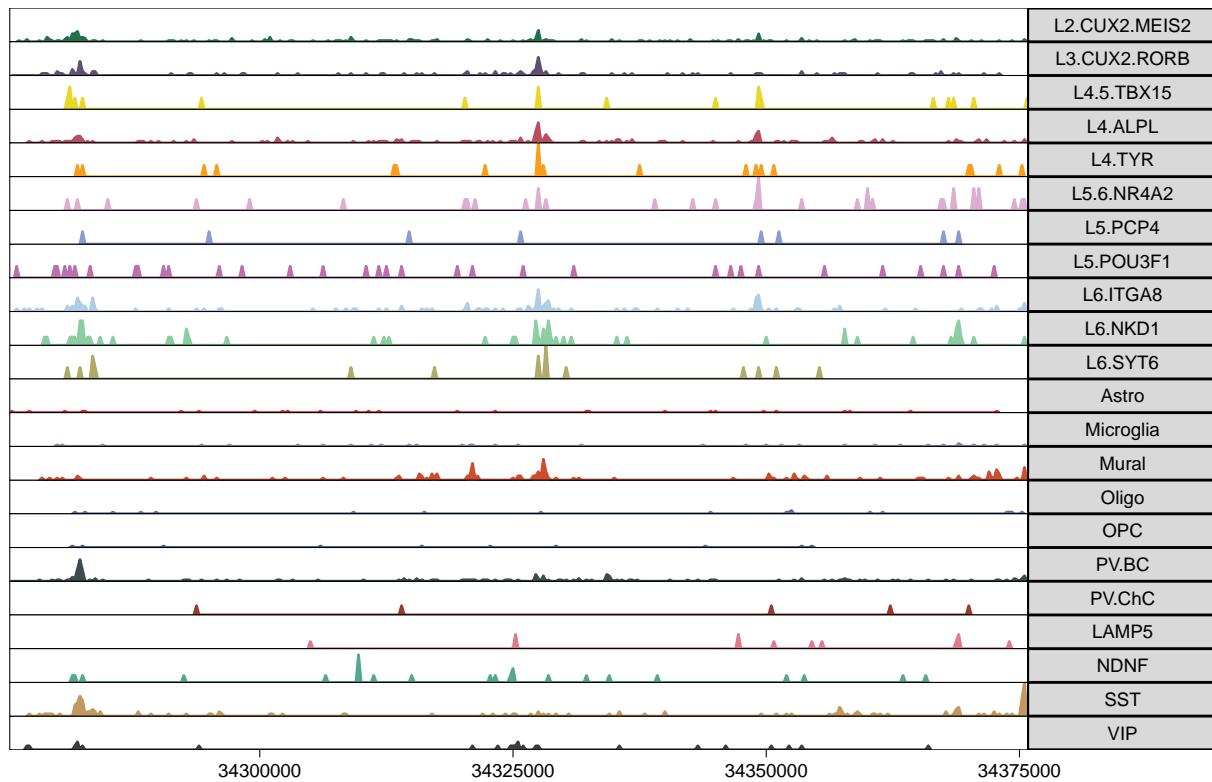


Peak2GeneLinks

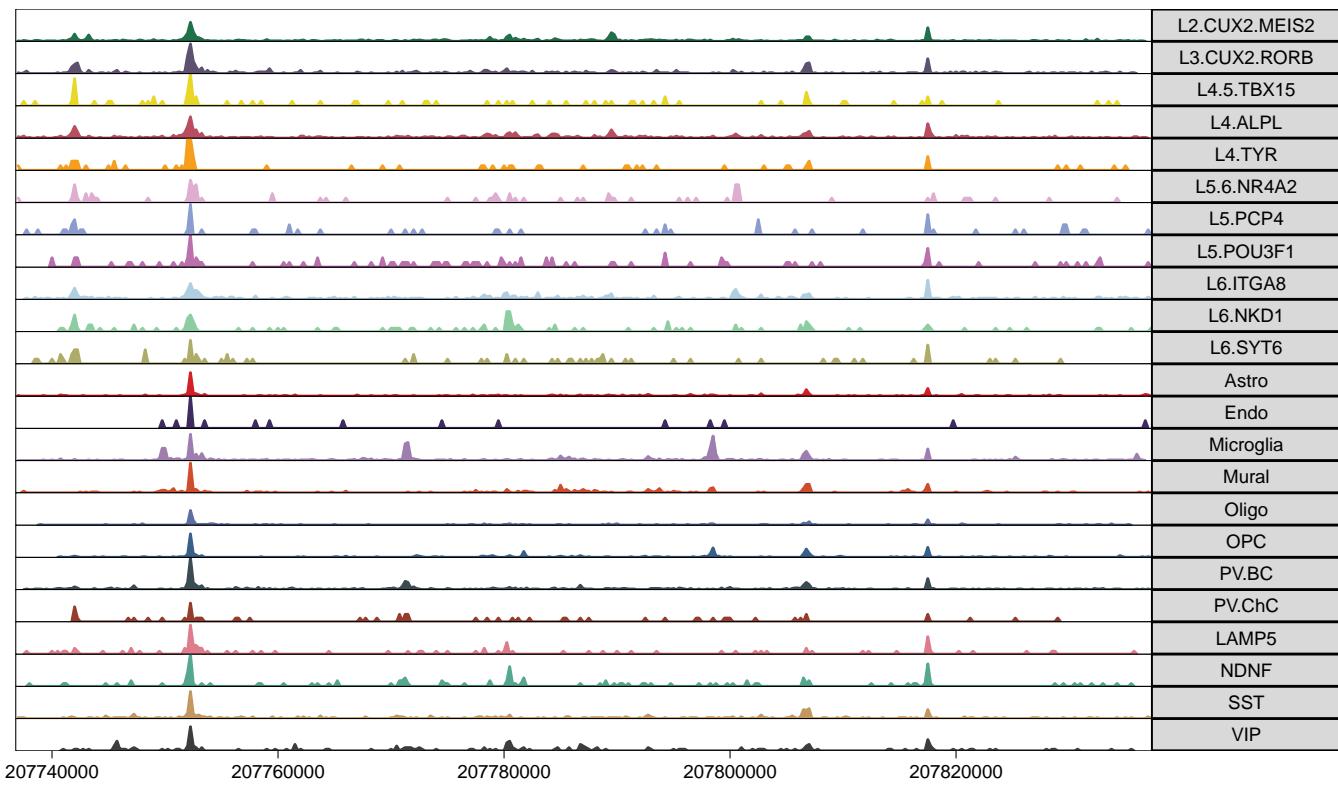


chr7:34275315–34375816 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0-0.7) by ReadsInTSS)



## chr1:207736790–207837291 Marker Peak Tracks for: VIP

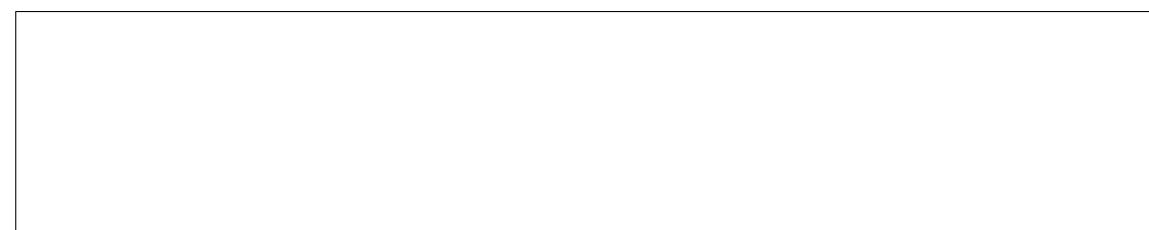
Coverage  
(Norm. ATAC Signal Range (0–1.64) by ReadsInTSS)

VIP

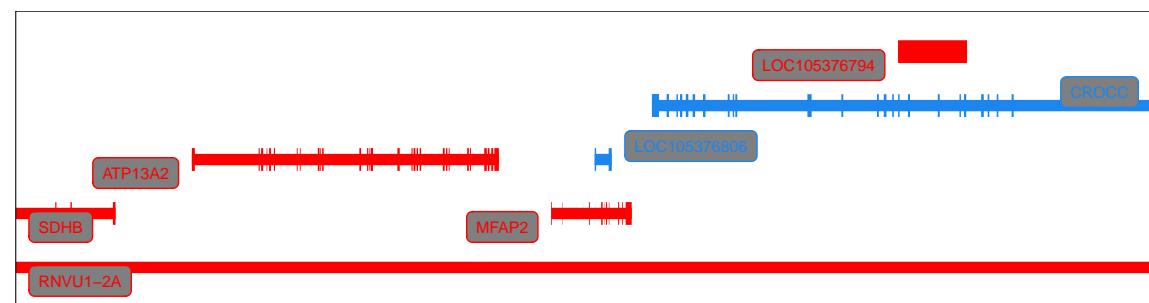
Peaks



LoopTrack

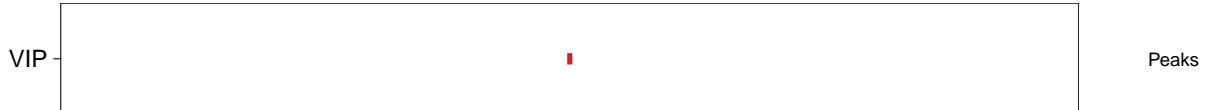
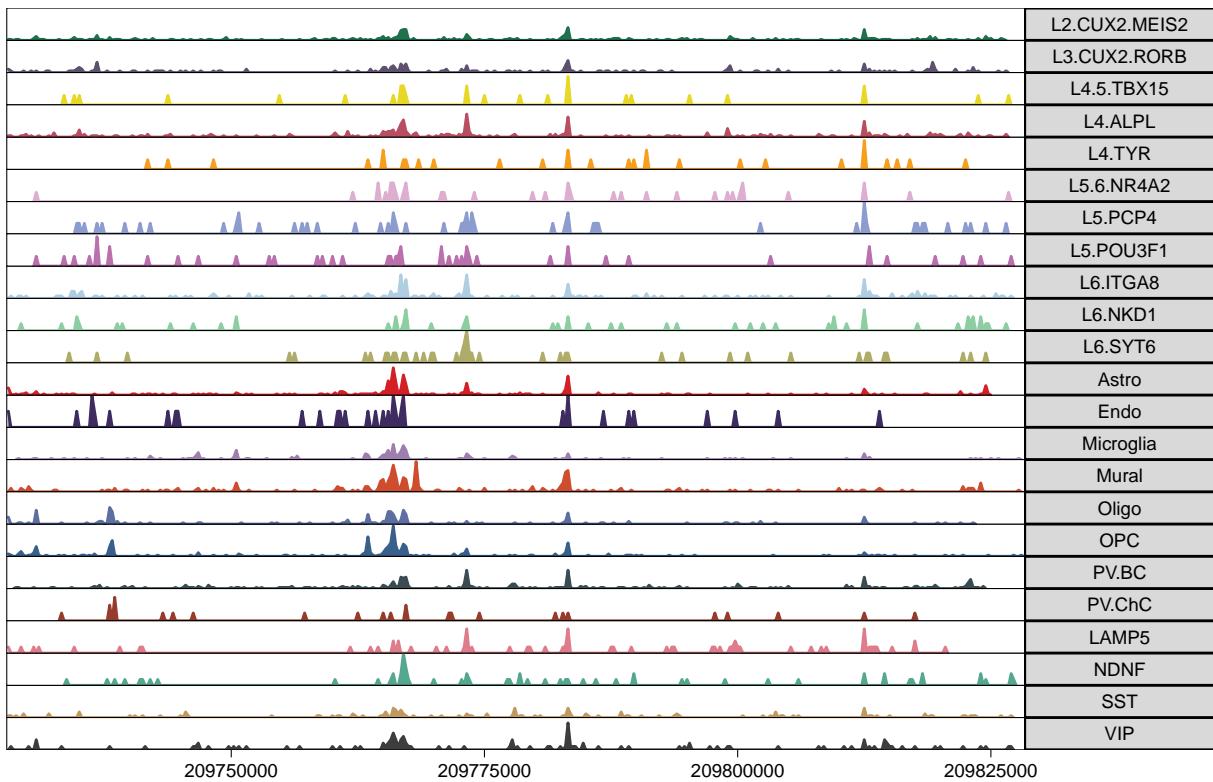


Genes



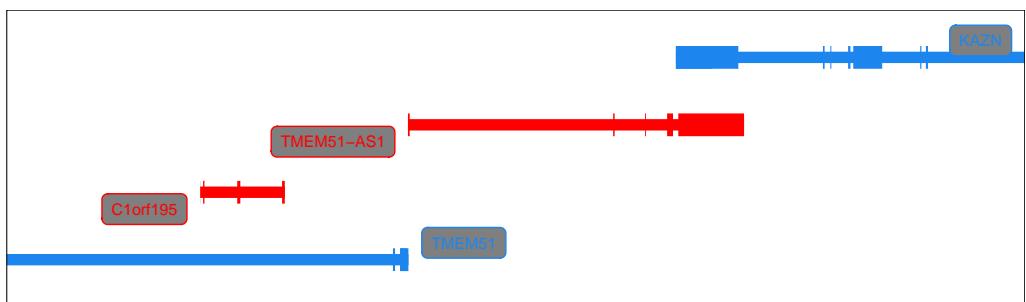
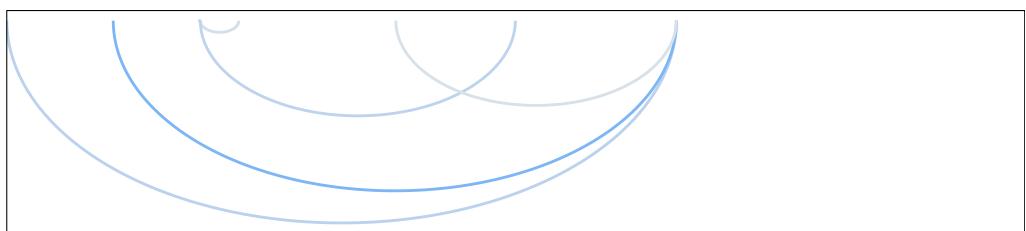
chr1:209727838–209828339 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.78) by ReadInTSS)



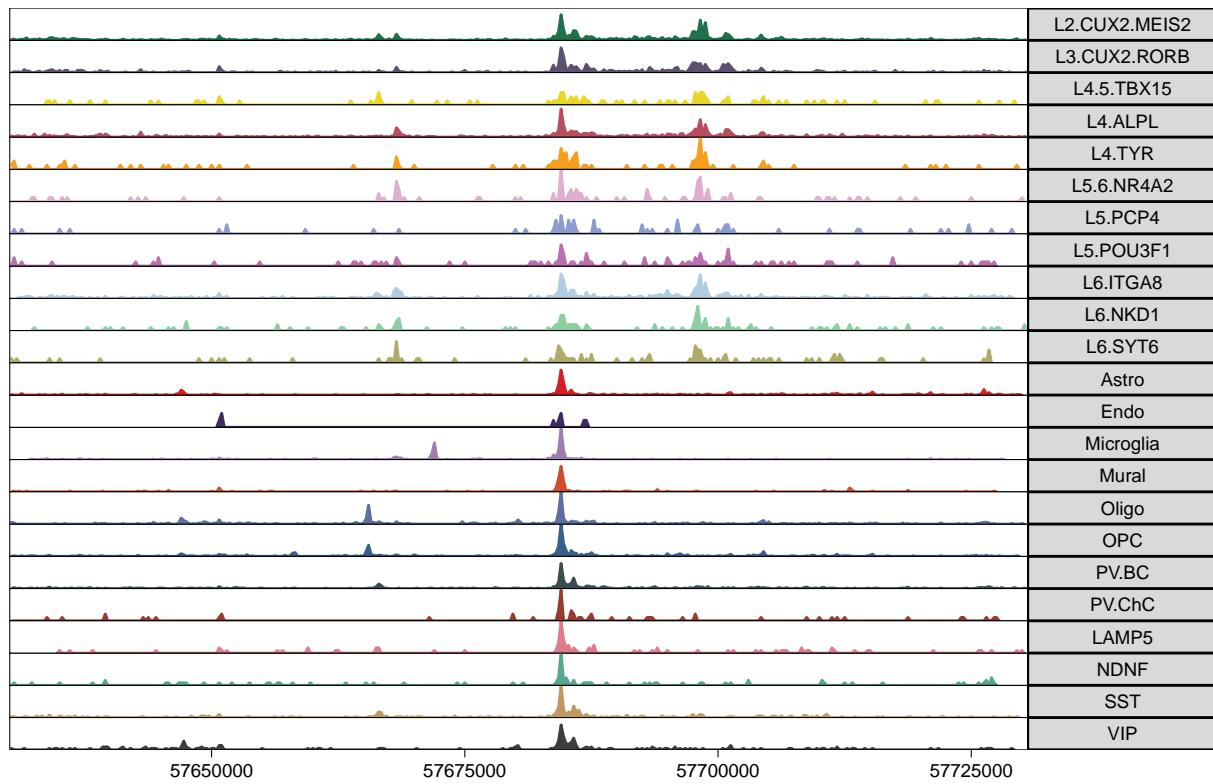
value  
0.9  
0.8  
0.7  
0.6  
0.5

Peak2GeneLinks



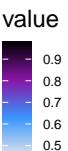
chr16:57630071–57730572 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.8) by ReadsInTSS)

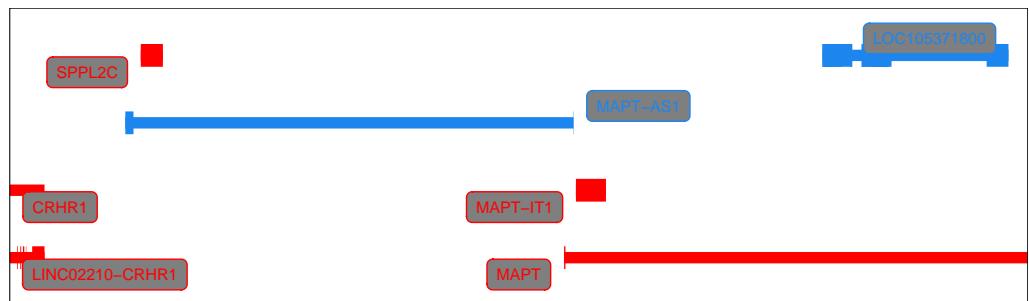
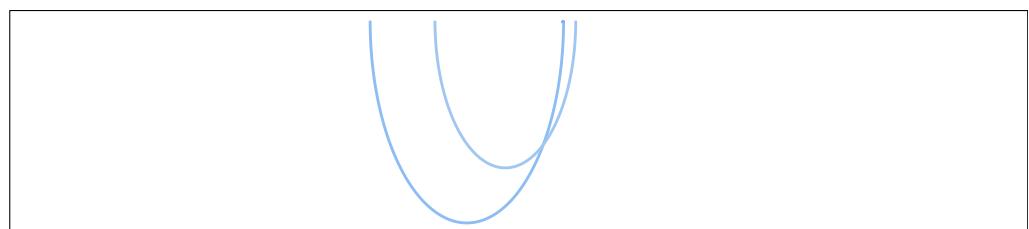


57650000 57675000 57700000 57725000

VIP - Peaks

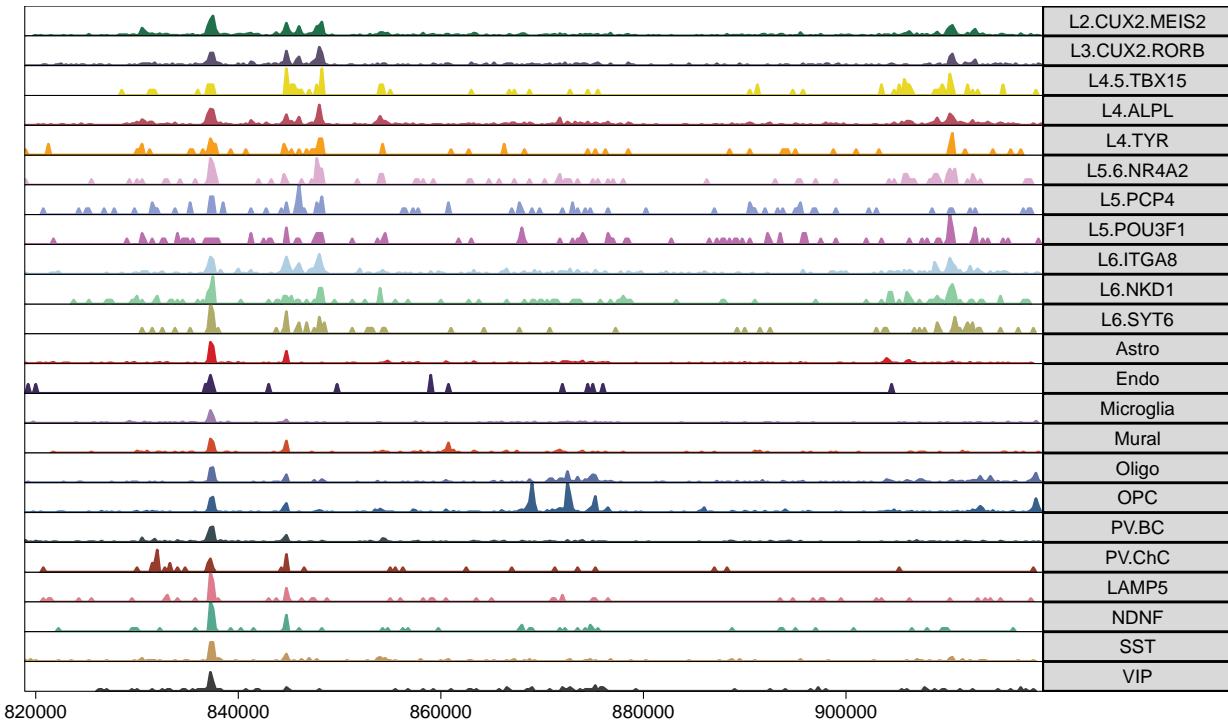


Peak2GeneLinks



# chr20:818918–919419 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.28) by ReadsIntSS)



820000 840000 860000 880000 900000

VIP

Peaks



Peak2GeneLinks

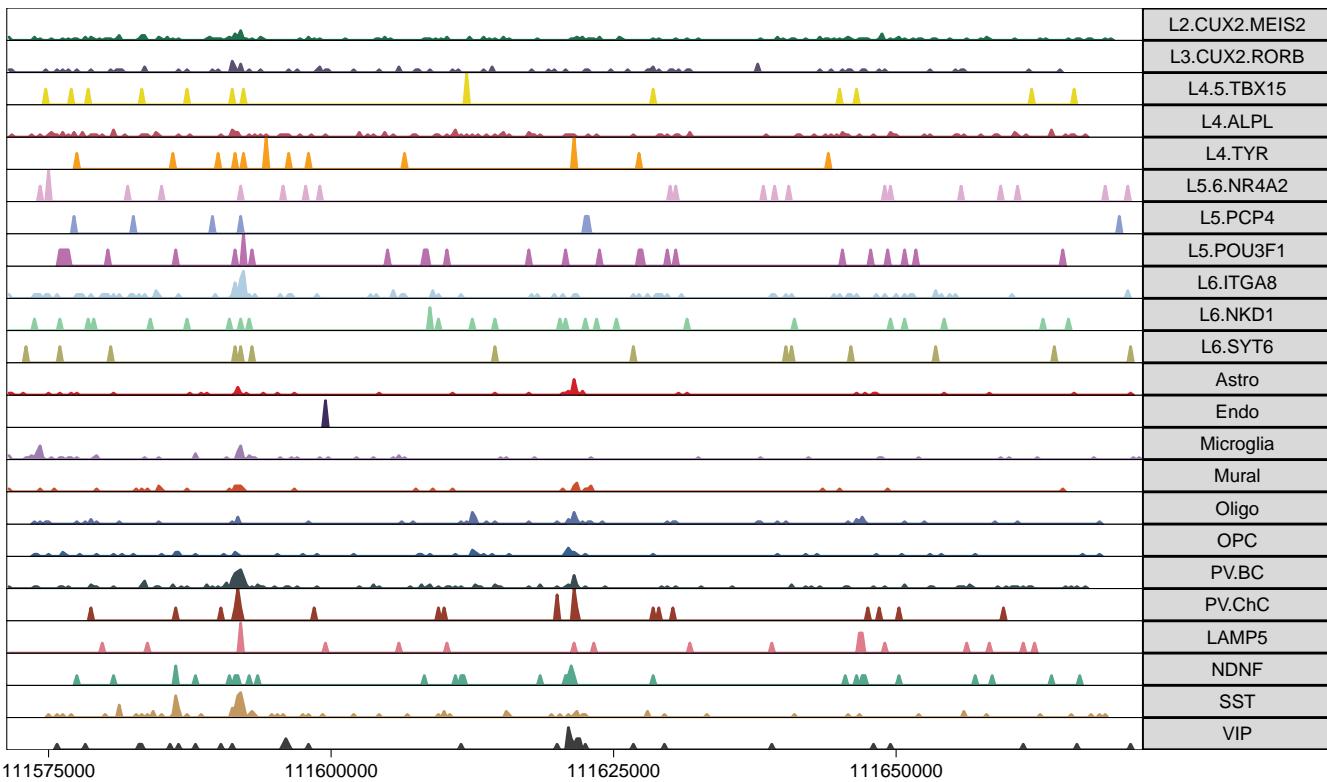
GeneTrack

strand



chr11:111571298–111671799 Marker Peak Tracks for: VIP

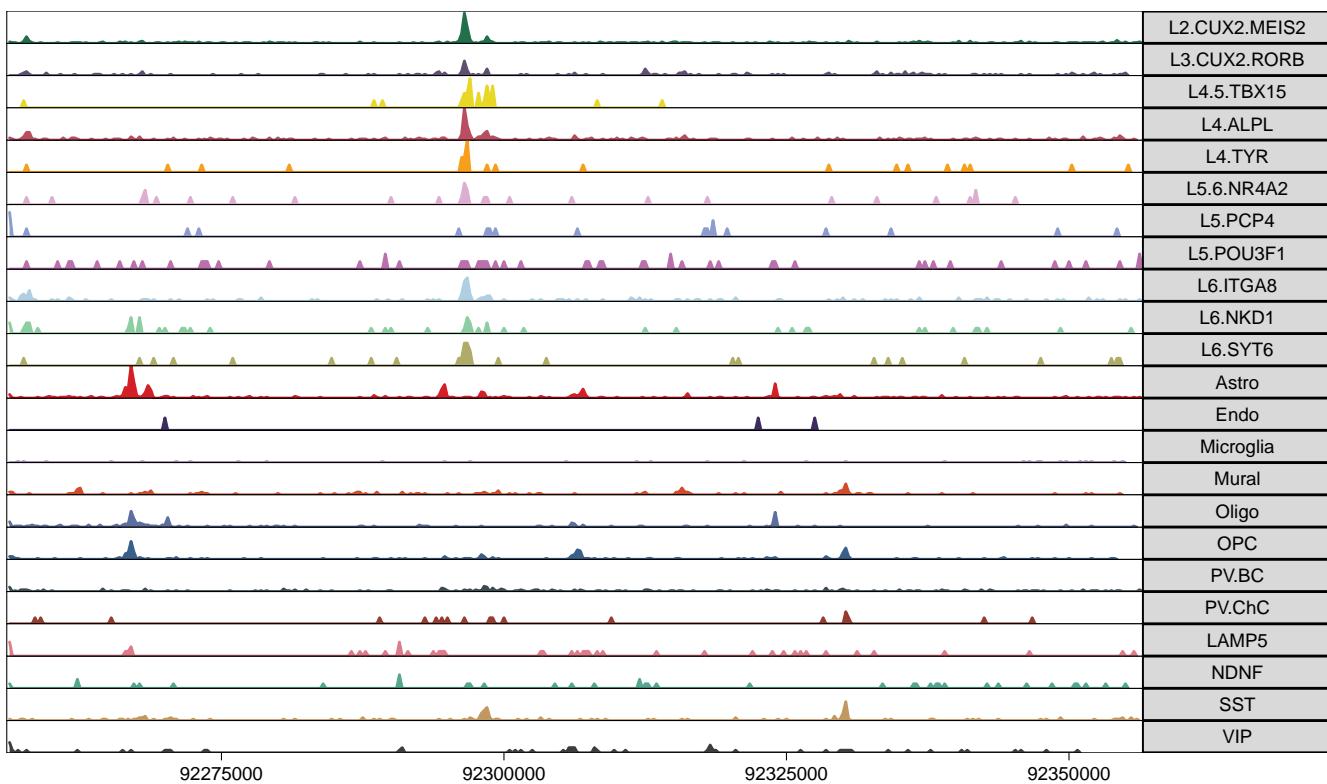
Coverage  
(Norm. ATAC Signal Range (0–0.47) by ReadInTSS)



111575000      111600000      111625000      111650000

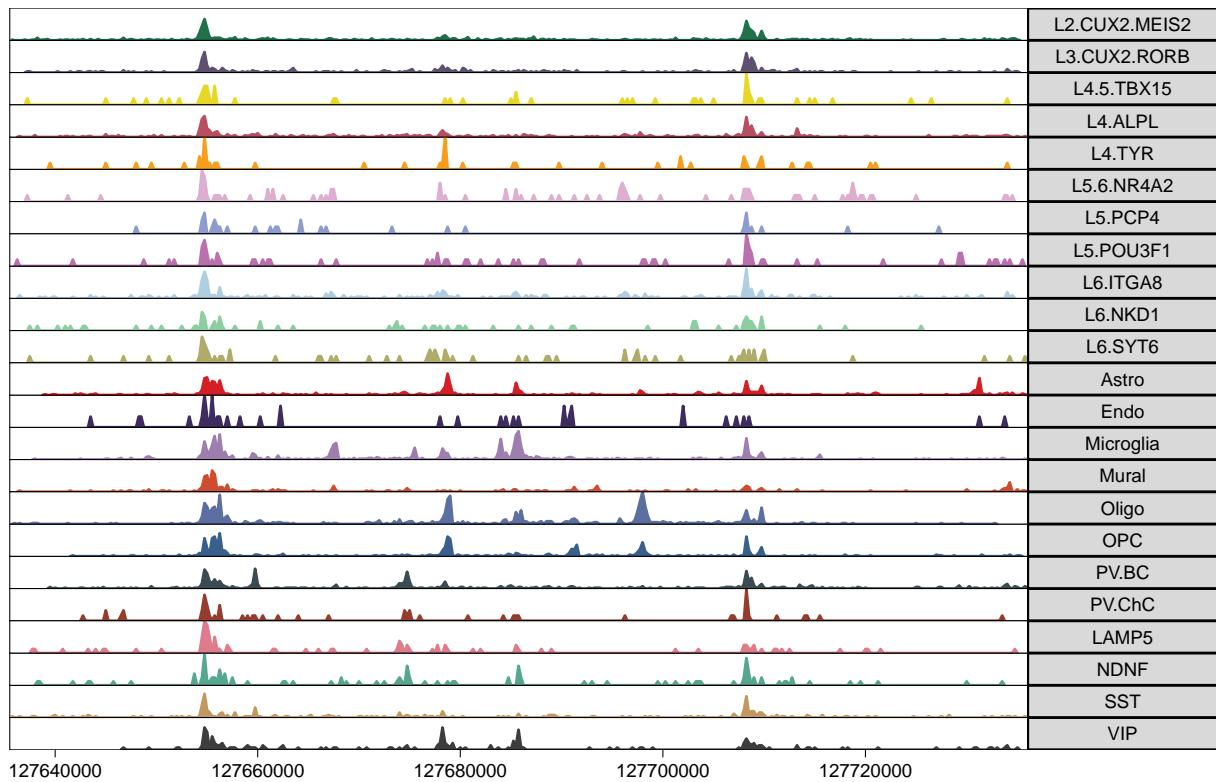


## chr10:92256000–92356501 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.01) by ReadsInTSS)

chr4:127635519–127736020 Marker Peak Tracks for: VIP

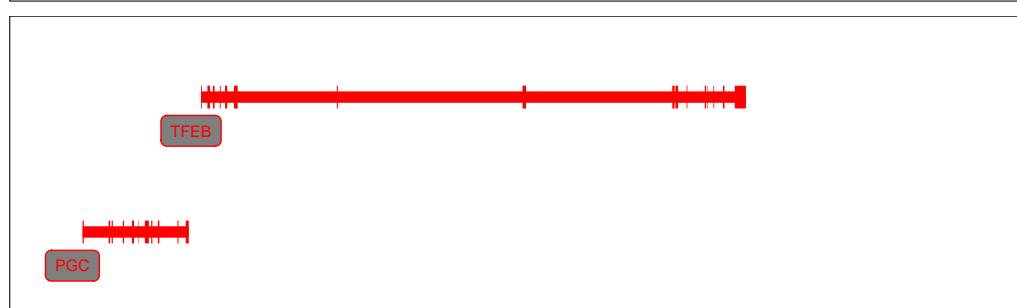
Coverage  
(Norm. ATAC Signal Range (0–1.18) by ReadsInTSS)



value

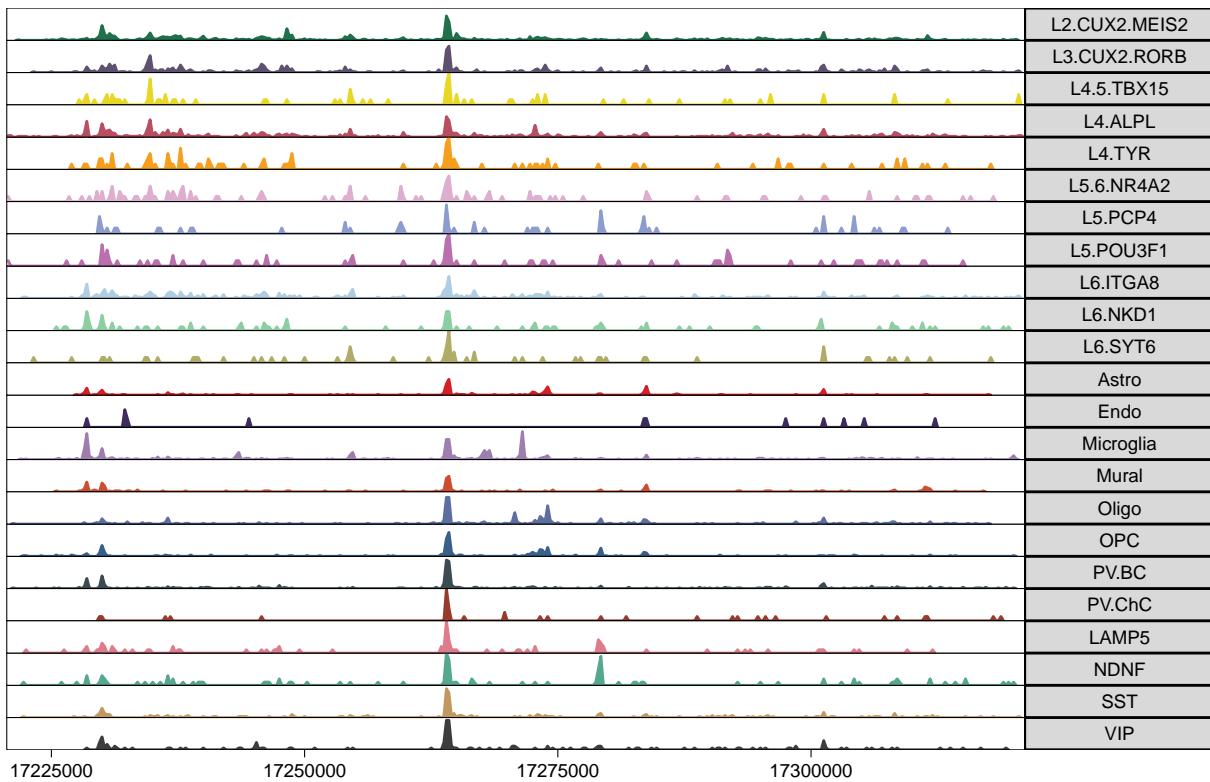
0.9
0.8
0.7
0.6
0.5

Peak2GeneLinks

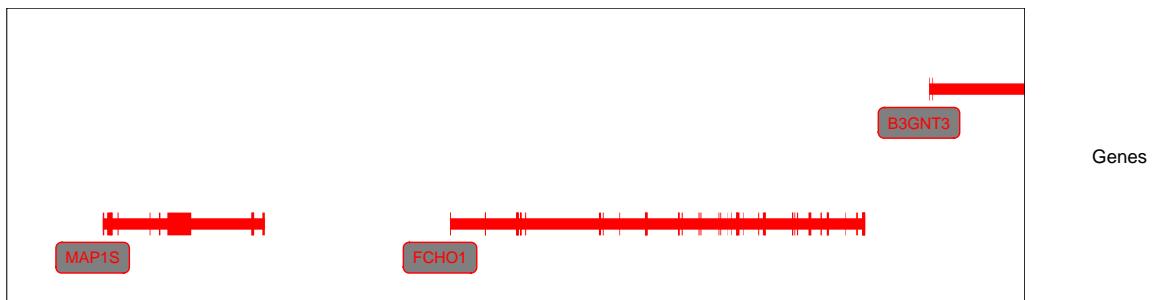
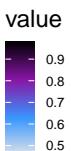
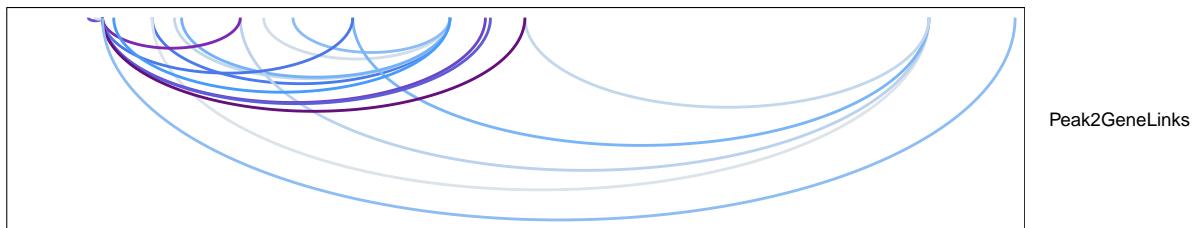


chr19:17220593–17321094 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.43) by ReadsInTSS)

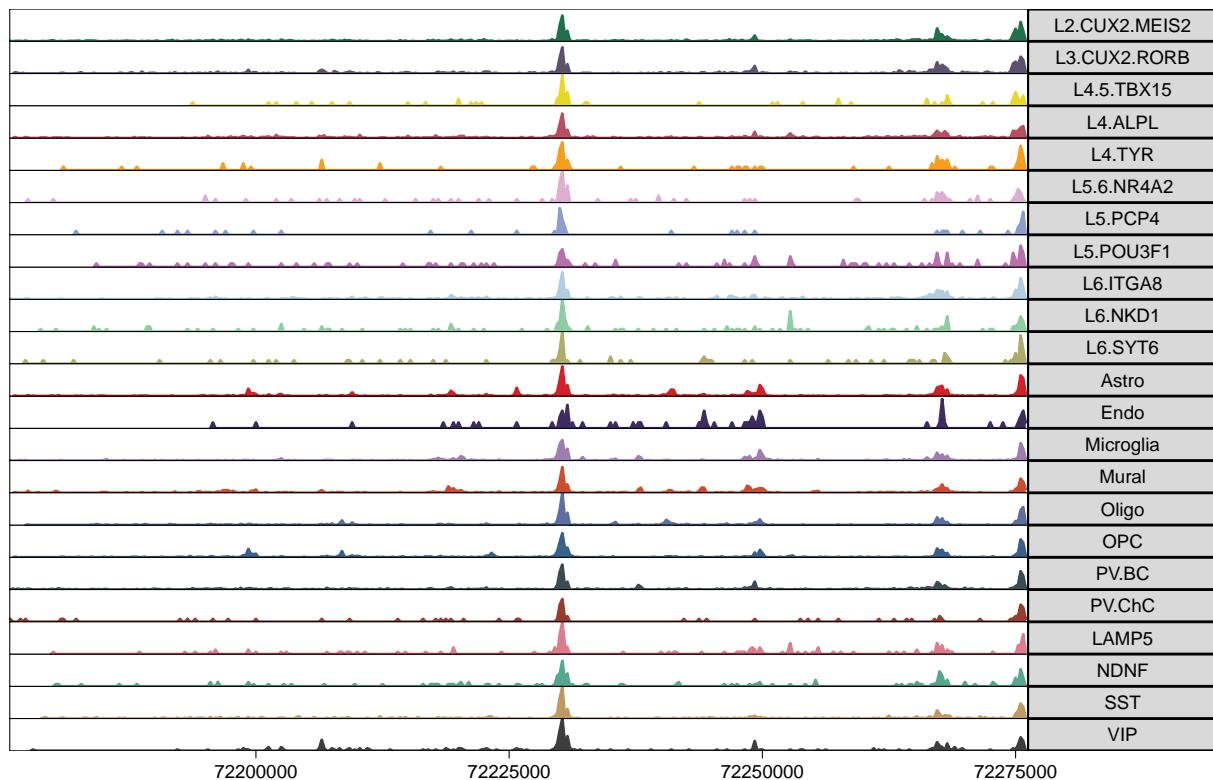


17225000      17250000      17275000      17300000



# chr16:72175695–72276196 Marker Peak Tracks for: VIP

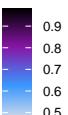
Coverage  
(Norm. ATAC Signal Range (0–2.16) by ReadsInTSS)



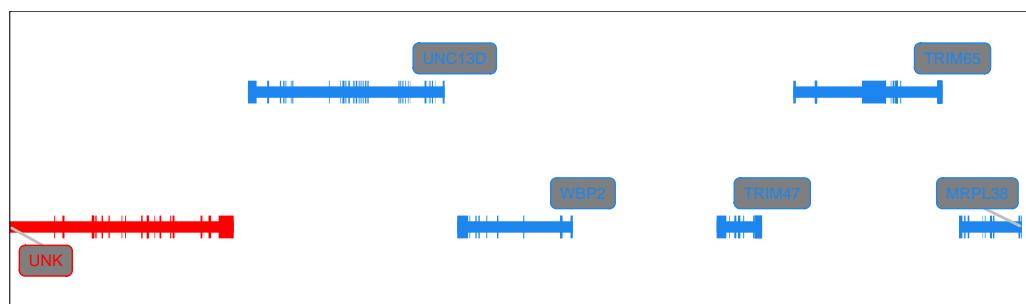
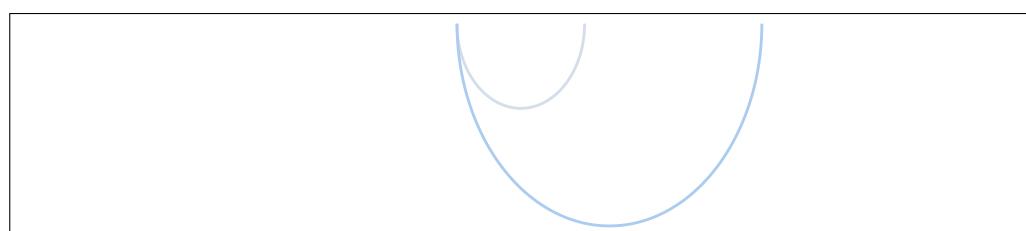
72200000 72225000 72250000 72275000

VIP - Peaks

value

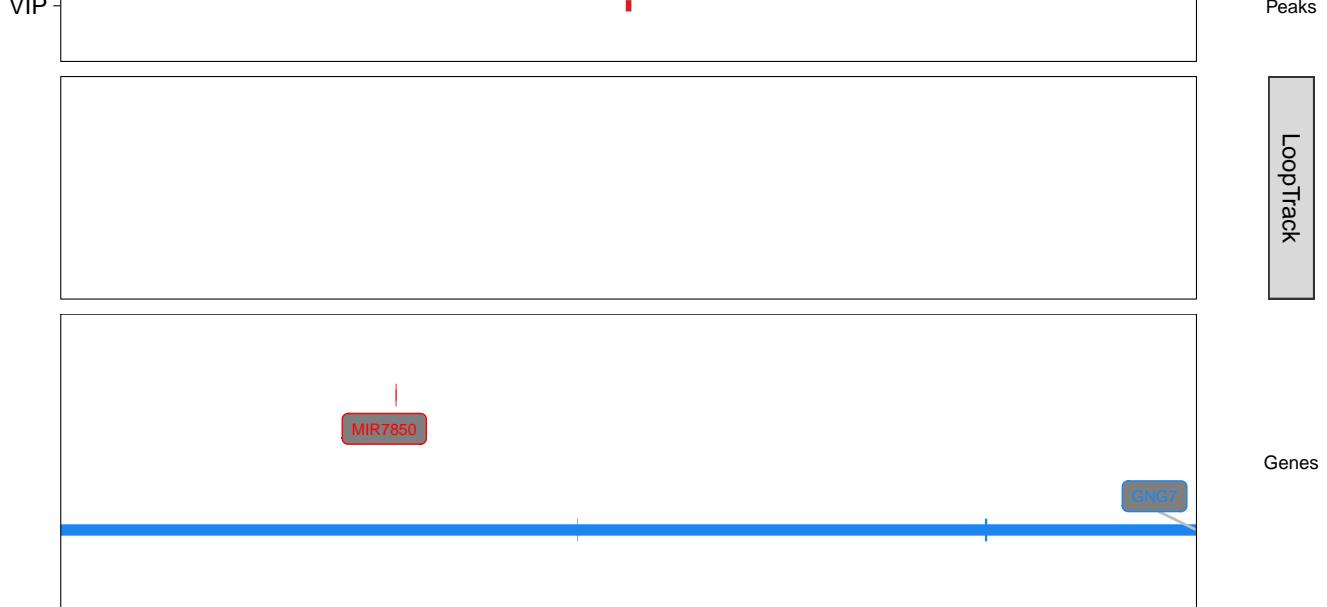
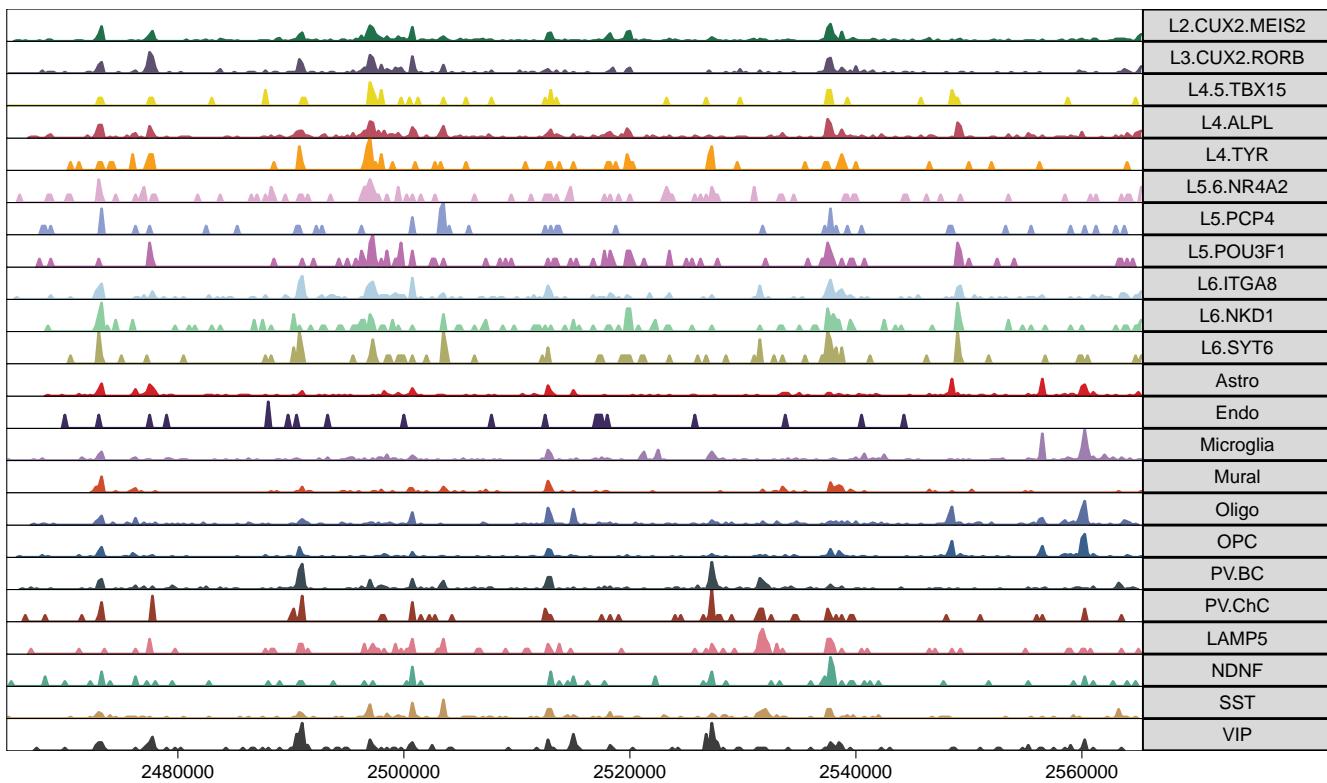


Peak2GeneLinks



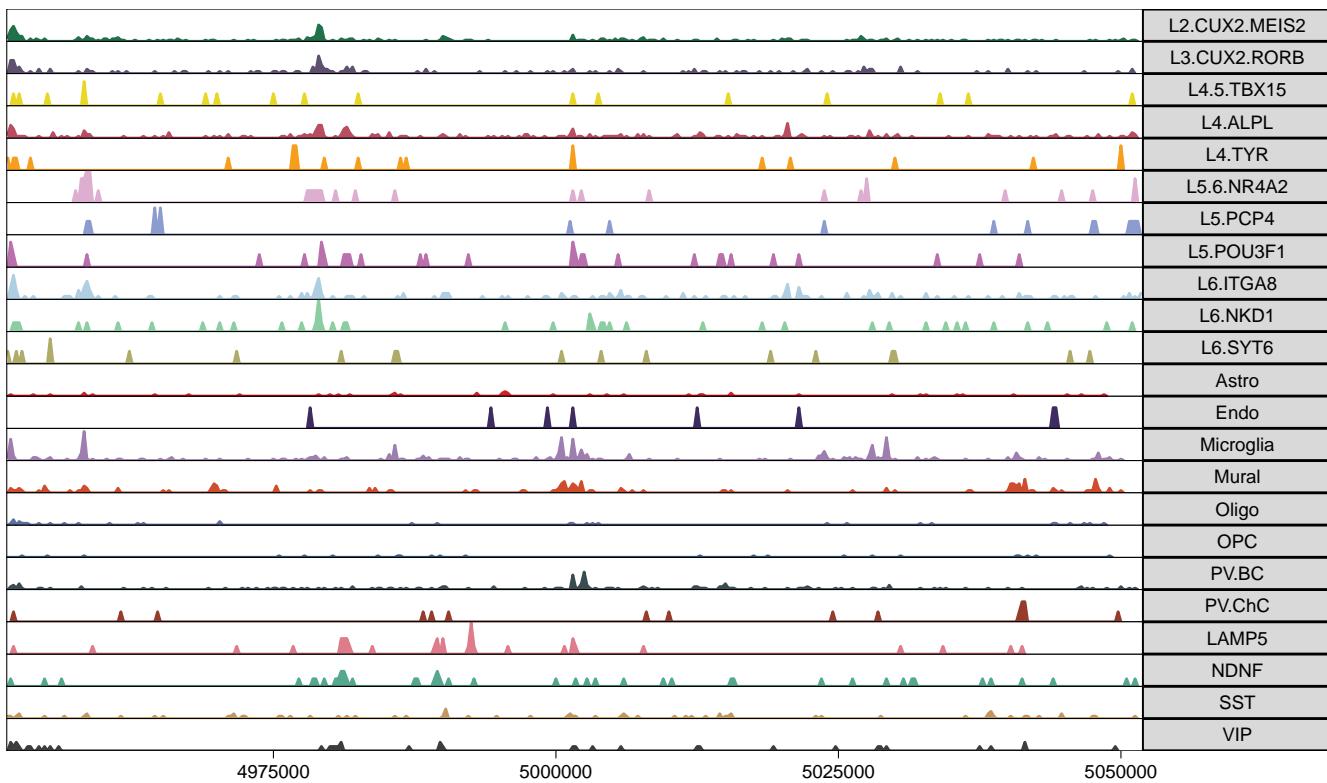
Genes

## chr19:2464856–2565357 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.95) by ReadInTSS)

chr9:4951402–5051903 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.61) by ReadsInTSS)



4975000                    5000000                    5025000                    5050000

VIP

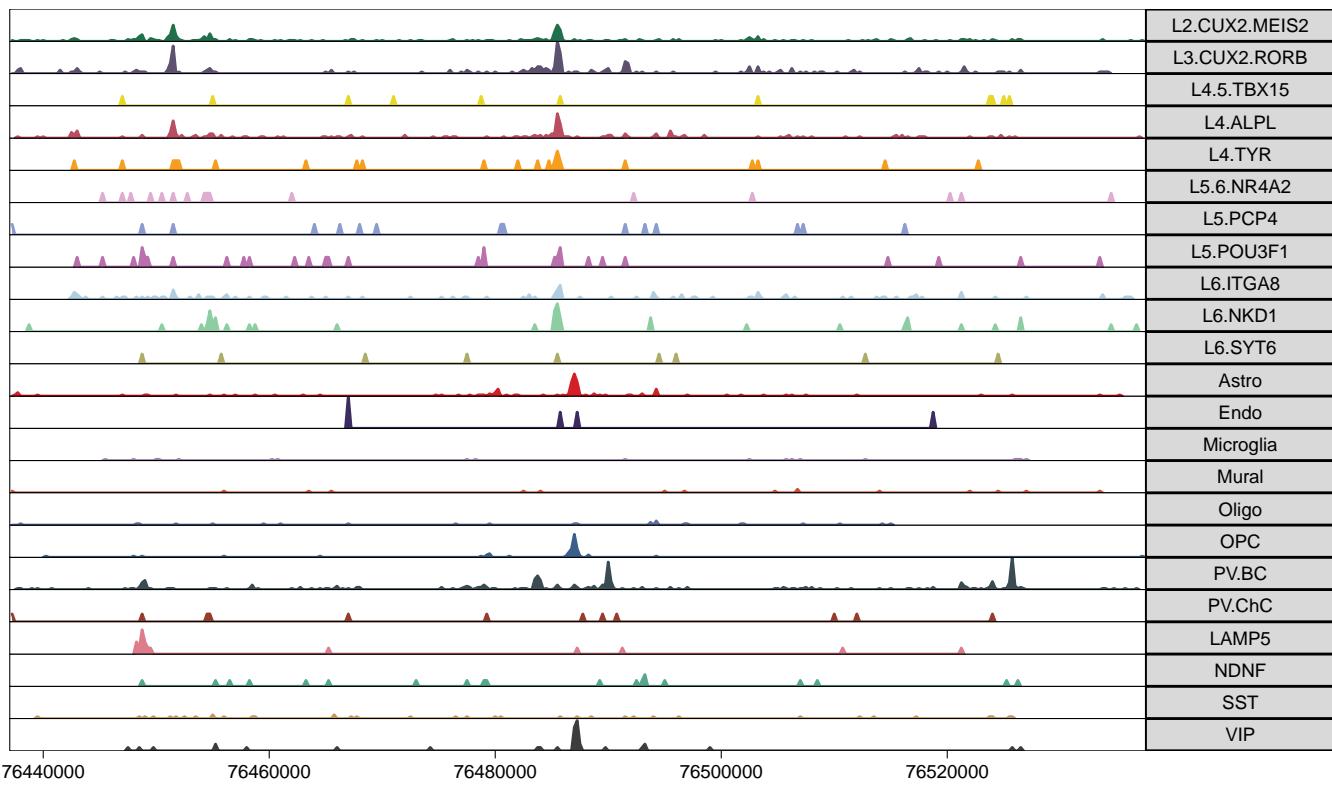
Peaks

LoopTrack



## chr15:76437038–76537539 Marker Peak Tracks for: VIP

Coverage (Norm. ATAC Signal Range (0–0.78) by ReadsInTSS)



VIP

Peaks

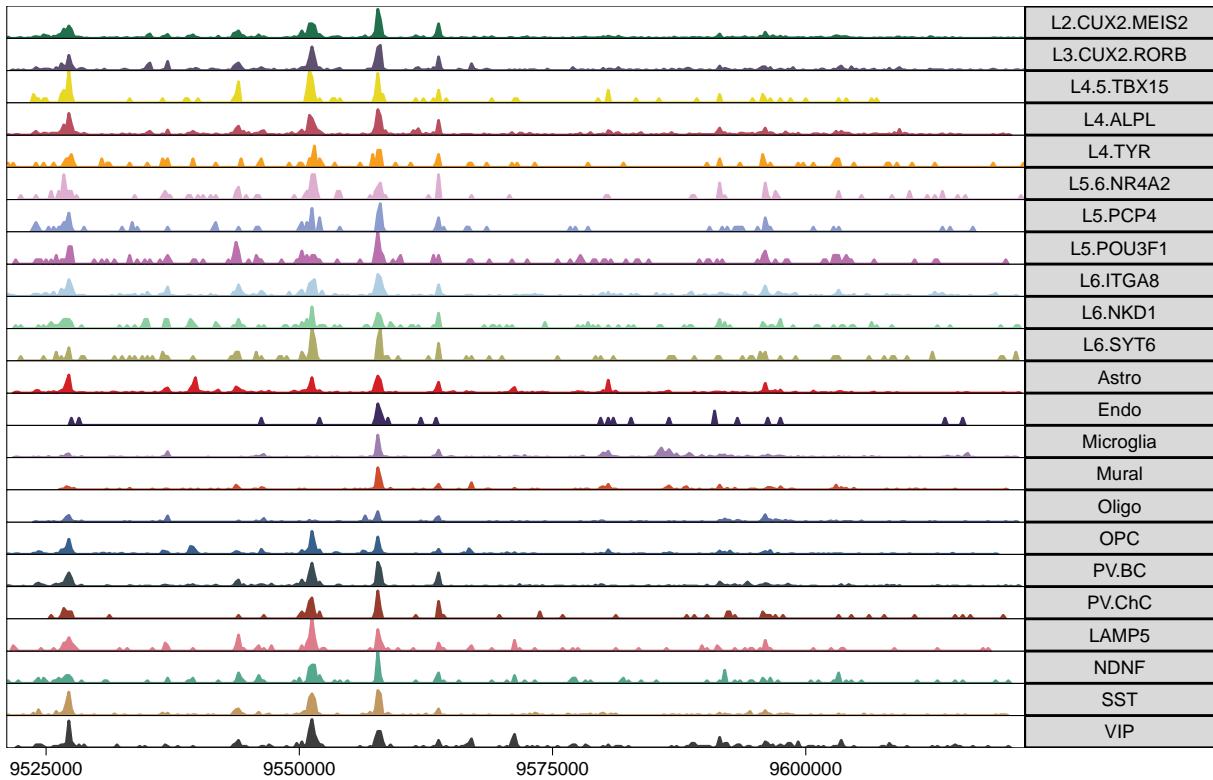
LoopTrack



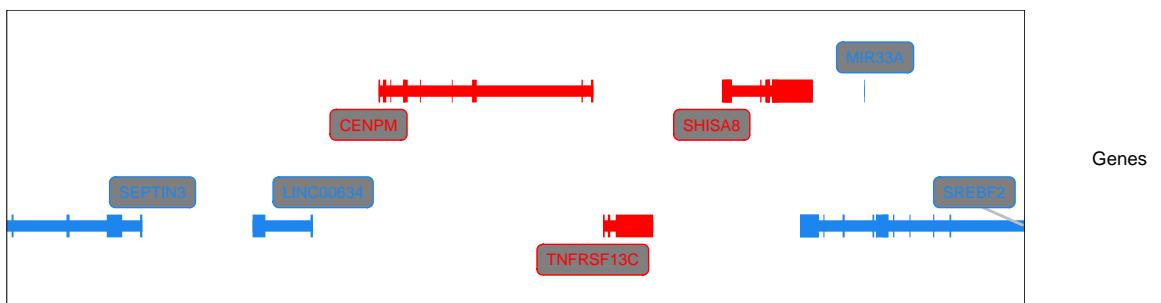
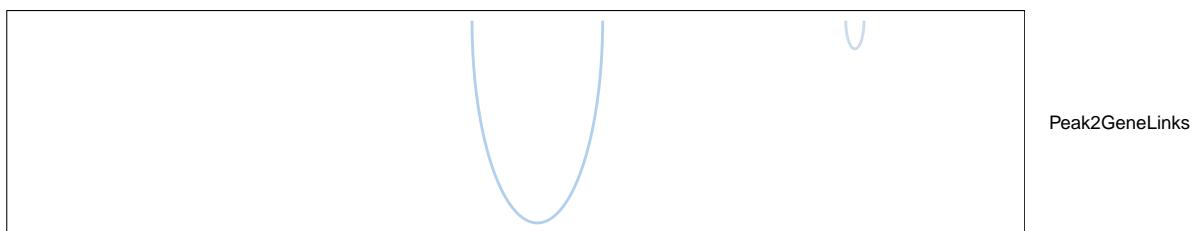
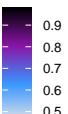
Genes

# chr10:9521116–9621617 Marker Peak Tracks for: VIP

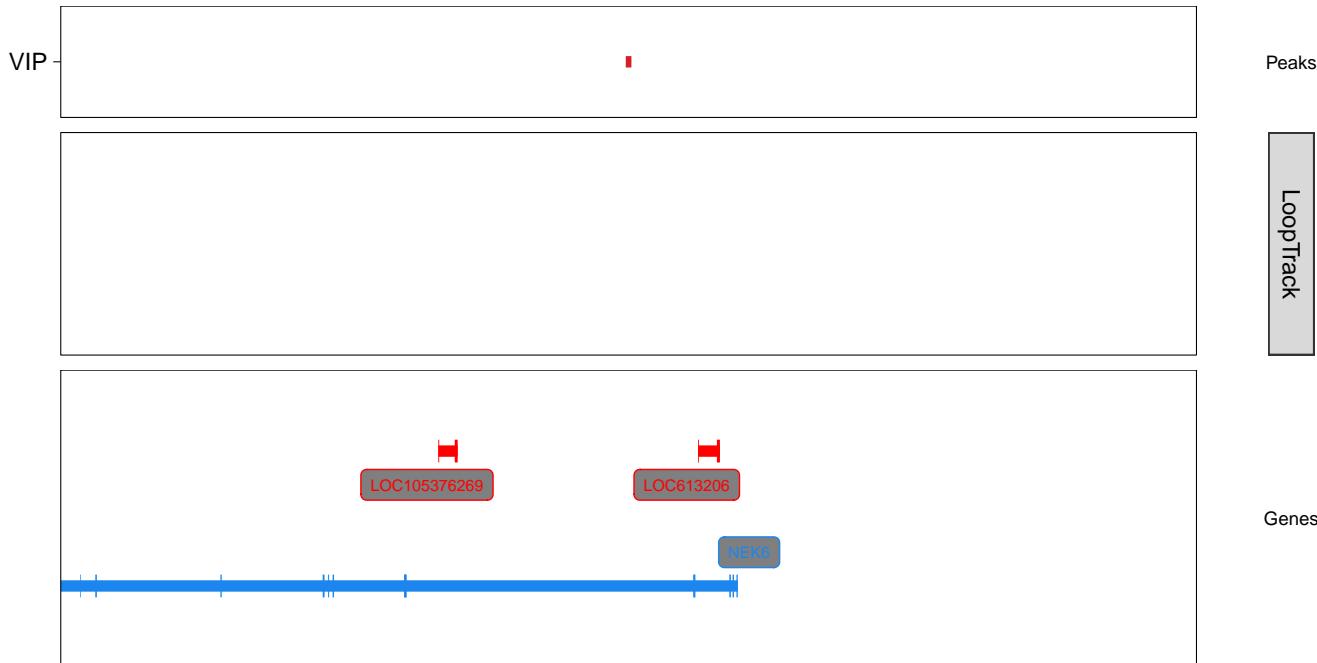
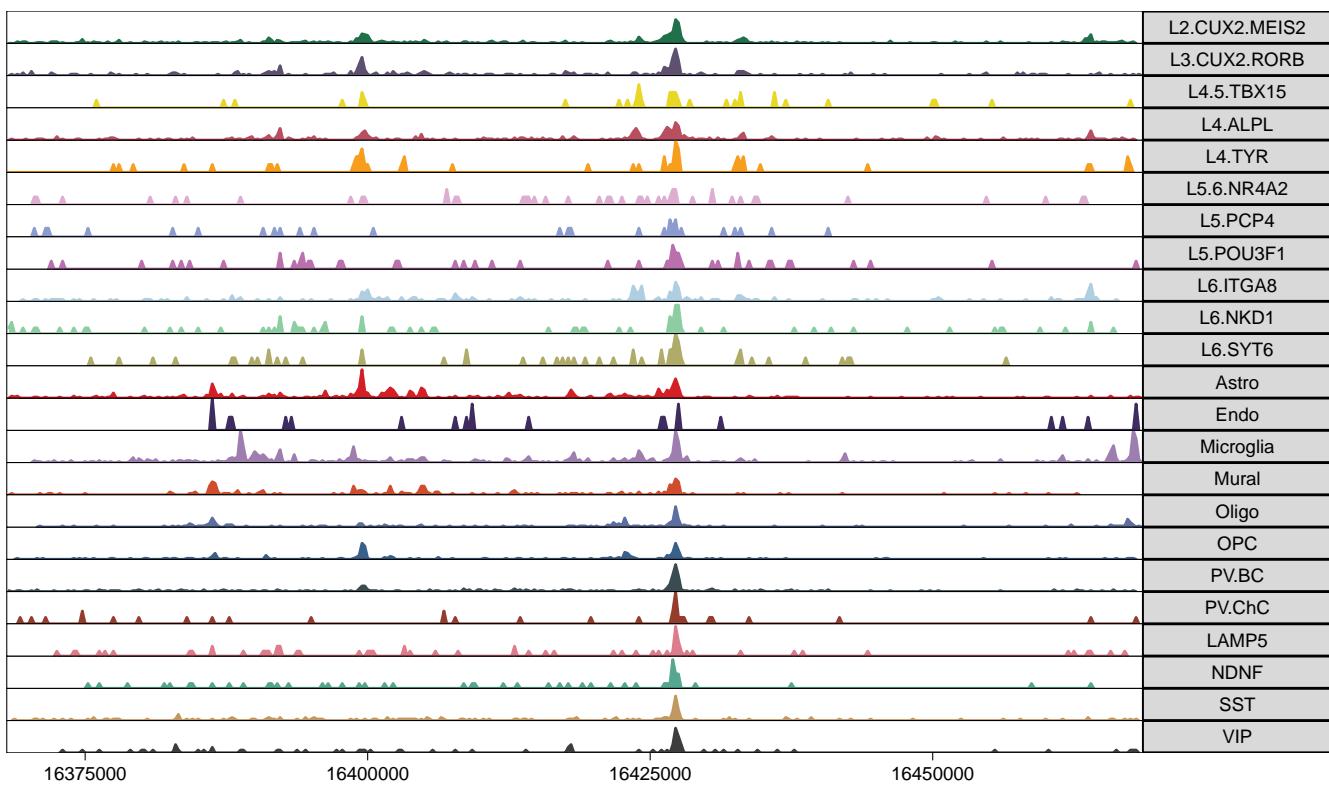
Coverage  
(Norm. ATAC Signal Range (0–1.76) by ReadsInTSS)



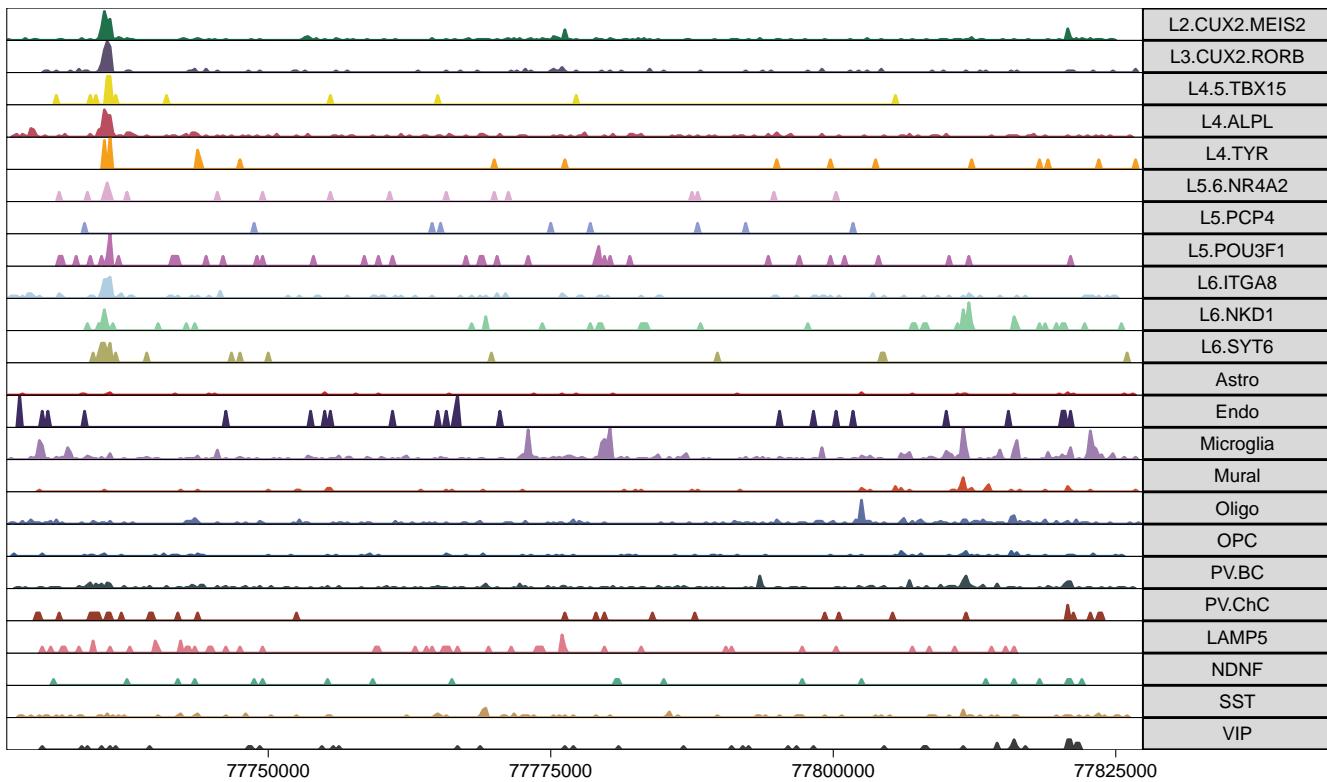
value



## chr15:16368061–16468562 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.96) by ReadsInTSS)

## chr3:77726860–77827361 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.78) by ReadsInTSS)

77750000 77775000 77800000 77825000

VIP

Peaks

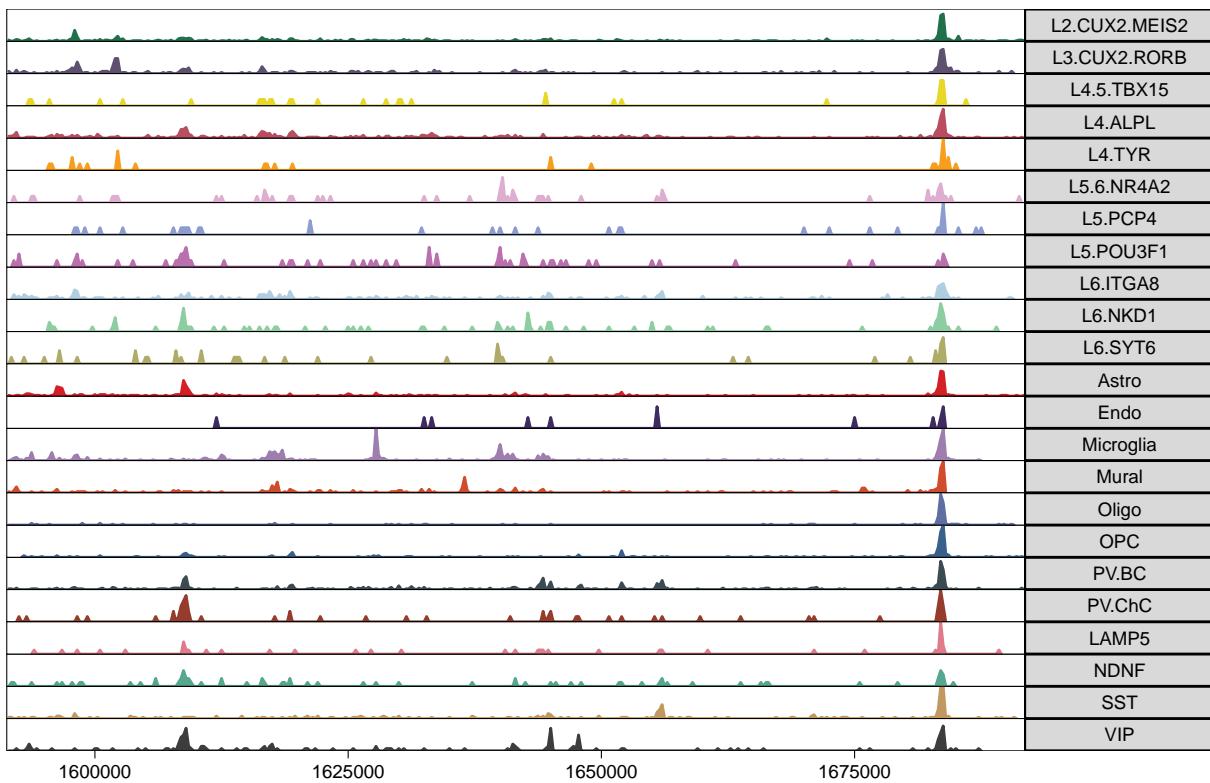
LoopTrack

Genes

ELMO1

chr16:1591294–1691795 Marker Peak Tracks for: VIP

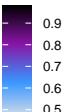
Coverage  
(Norm. ATAC Signal Range (0–1.16) by ReadsInTSS)



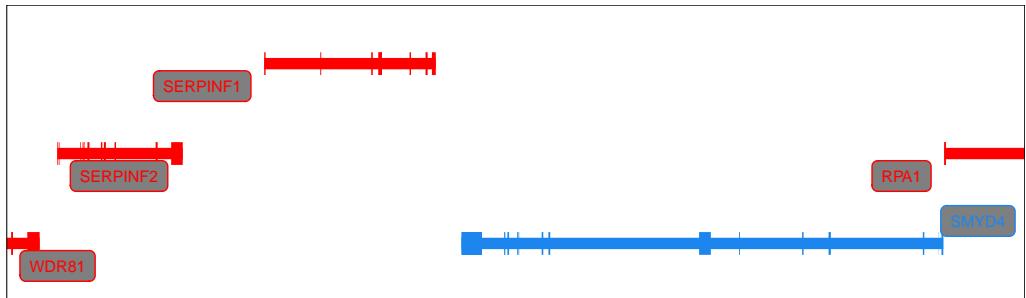
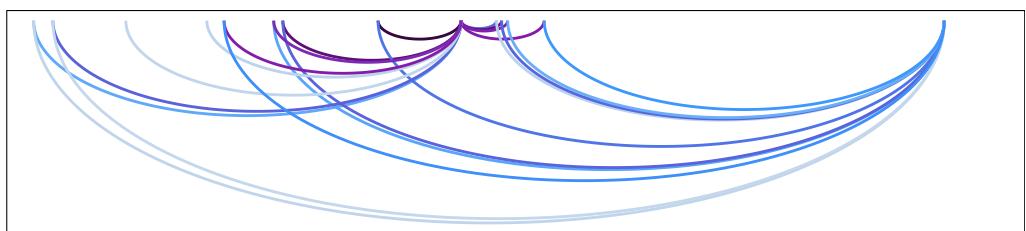
1600000 1625000 1650000 1675000

VIP - Peaks

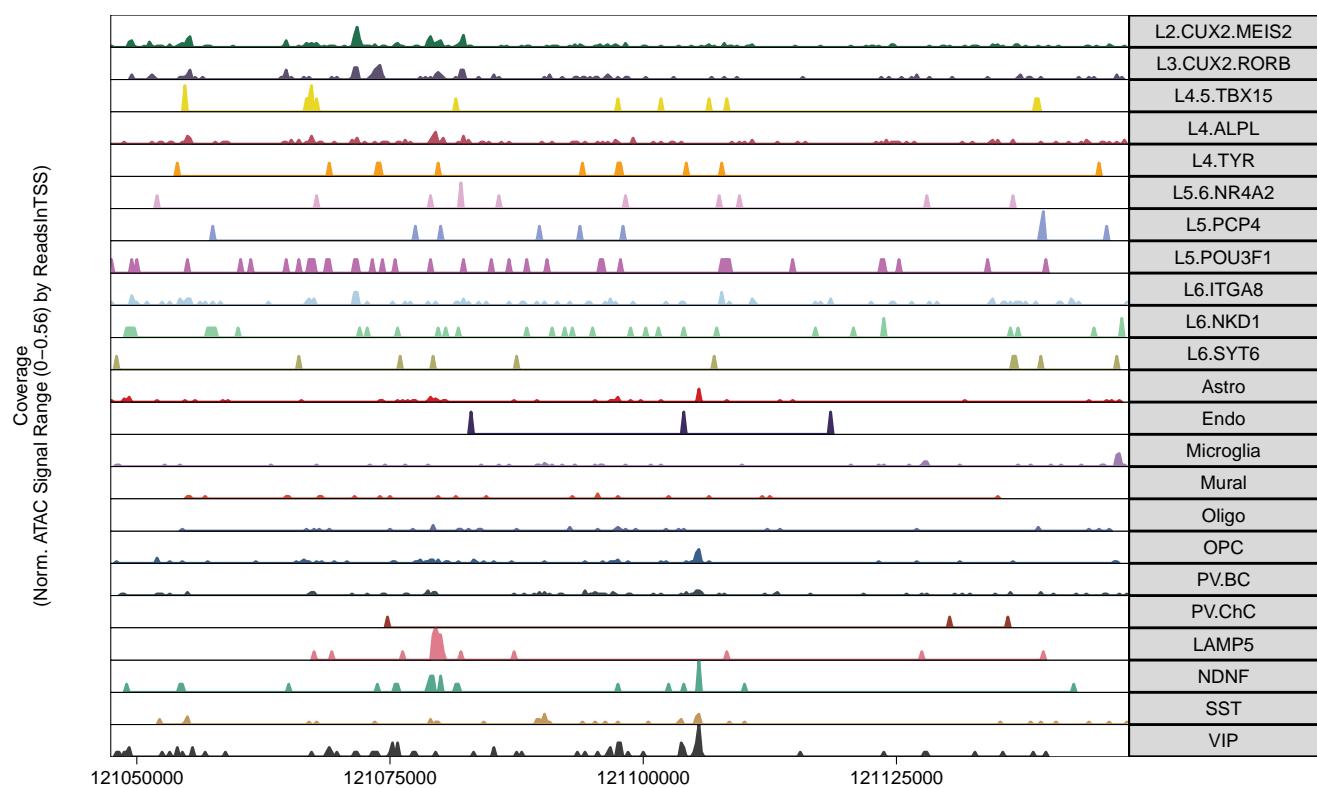
value



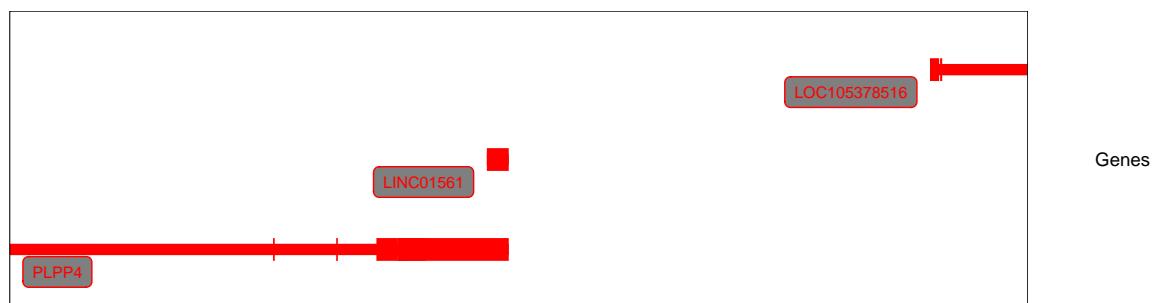
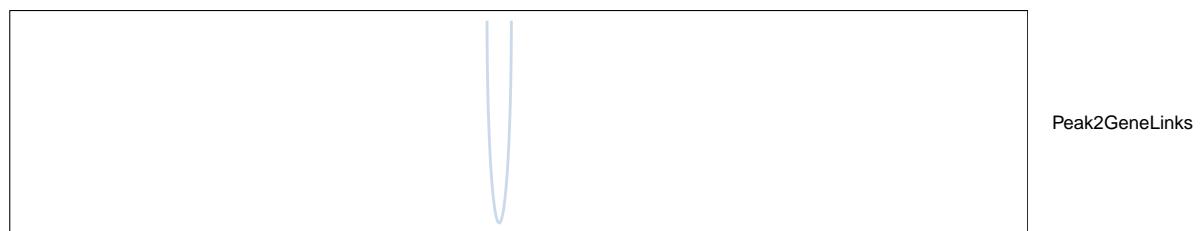
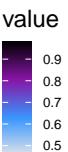
Peak2GeneLinks



chr9:121047428–121147929 Marker Peak Tracks for: VIP

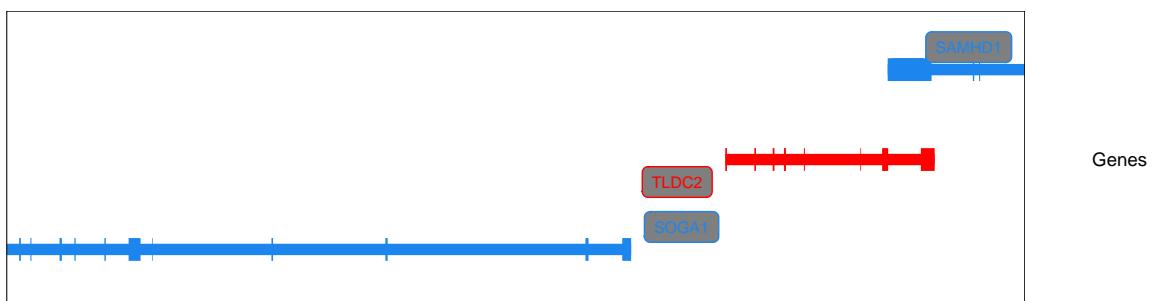
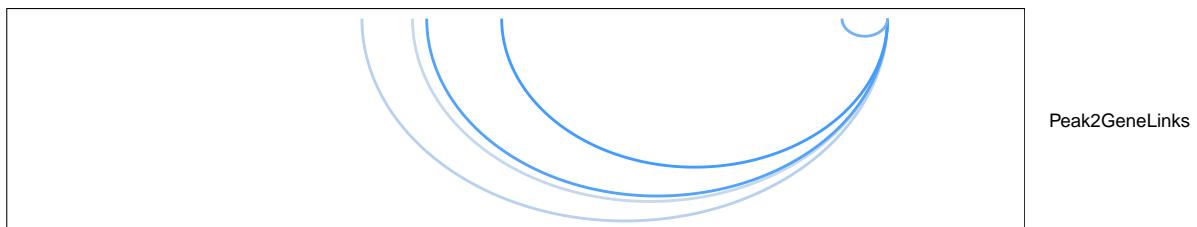
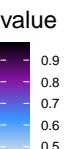
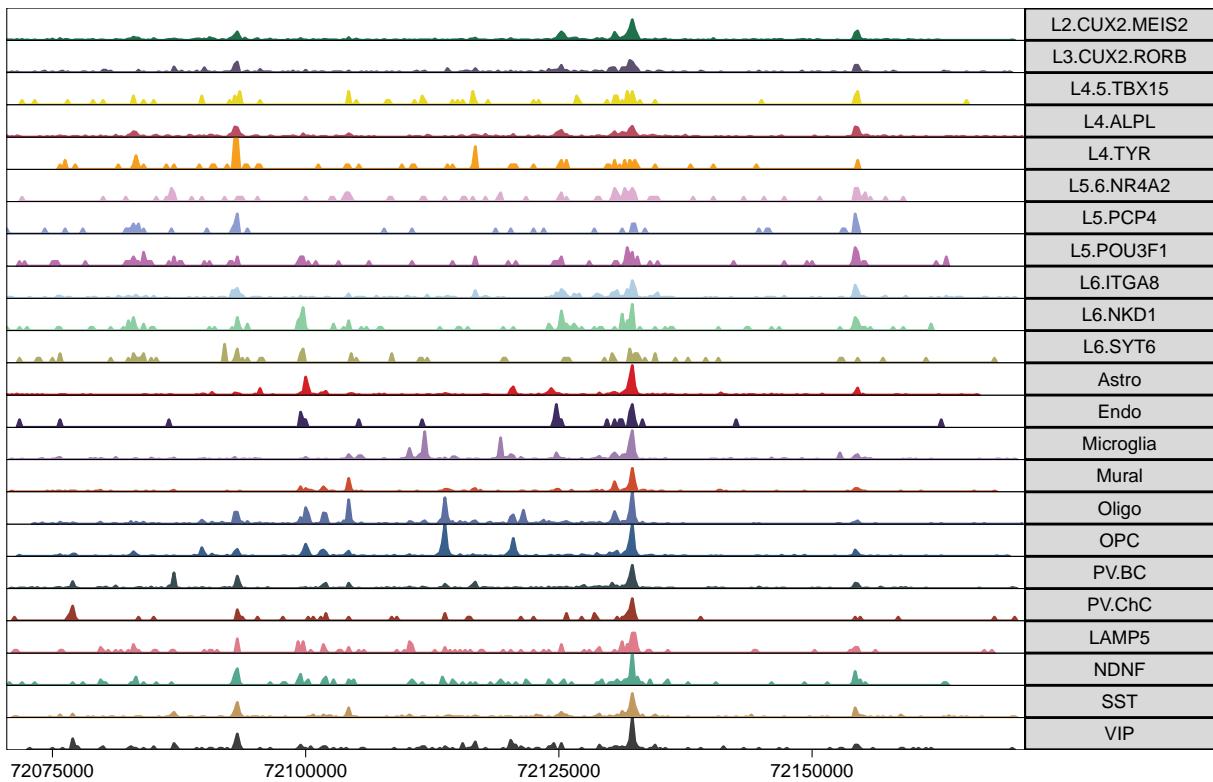


121050000      121075000      121100000      121125000



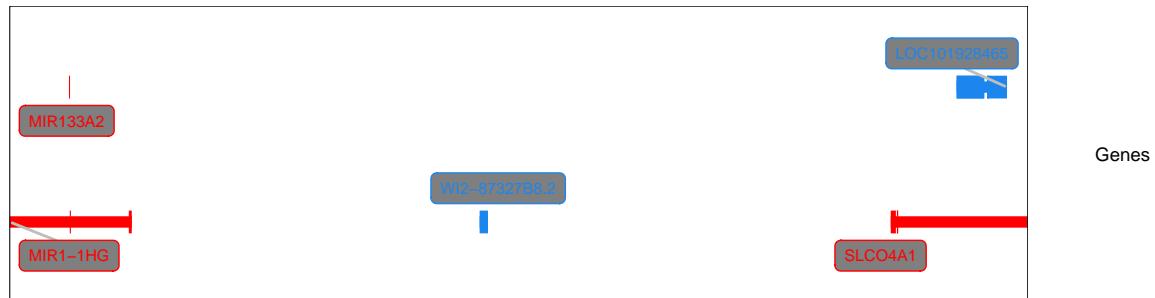
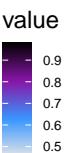
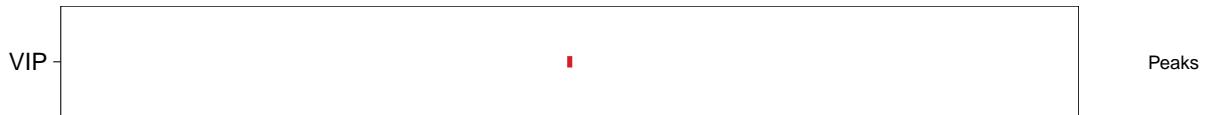
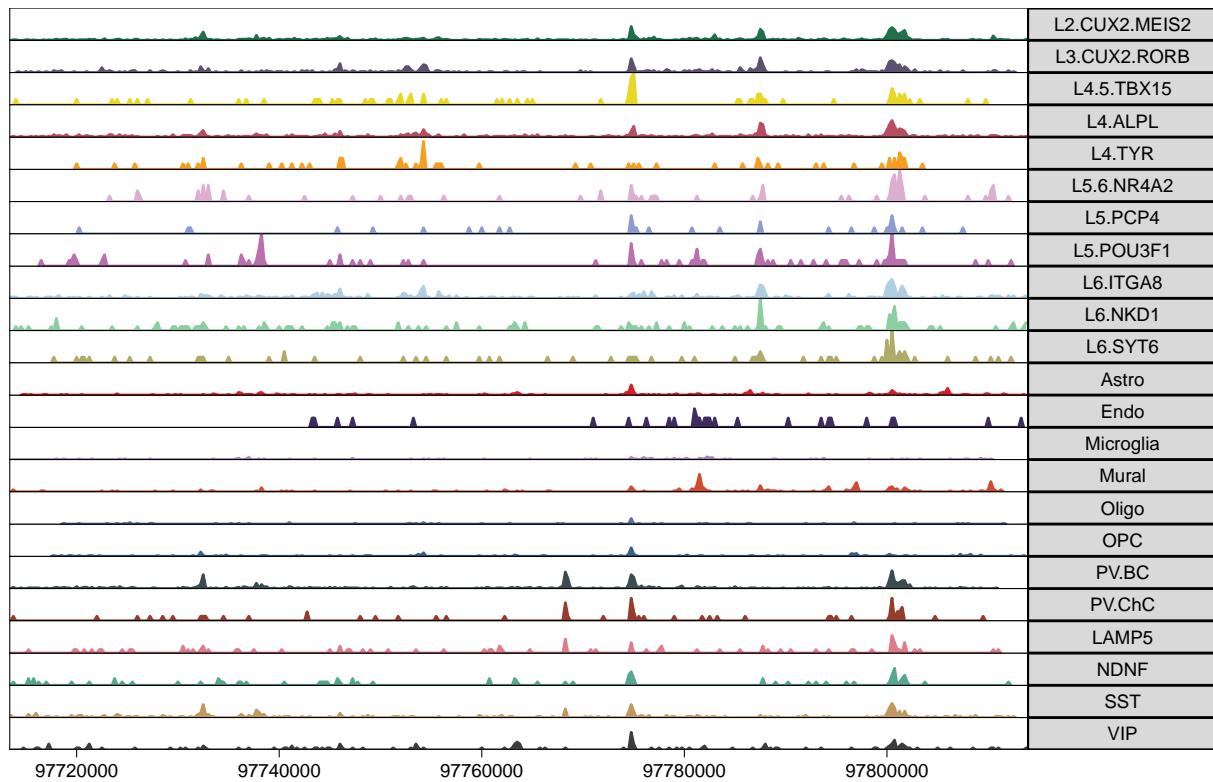
chr10:72070490–72170991 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.66) by ReadsInTSS)

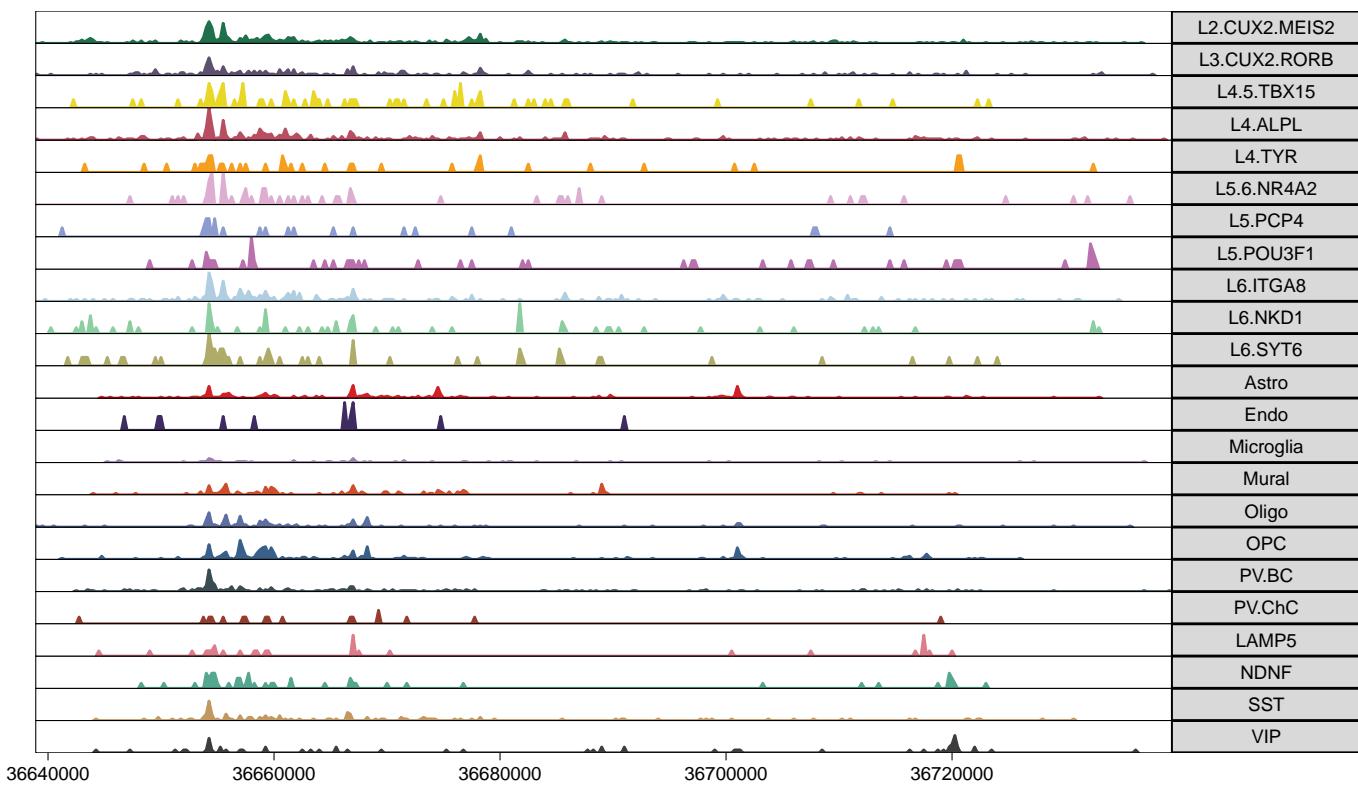


# chr10:97713397–97813898 Marker Peak Tracks for: VIP

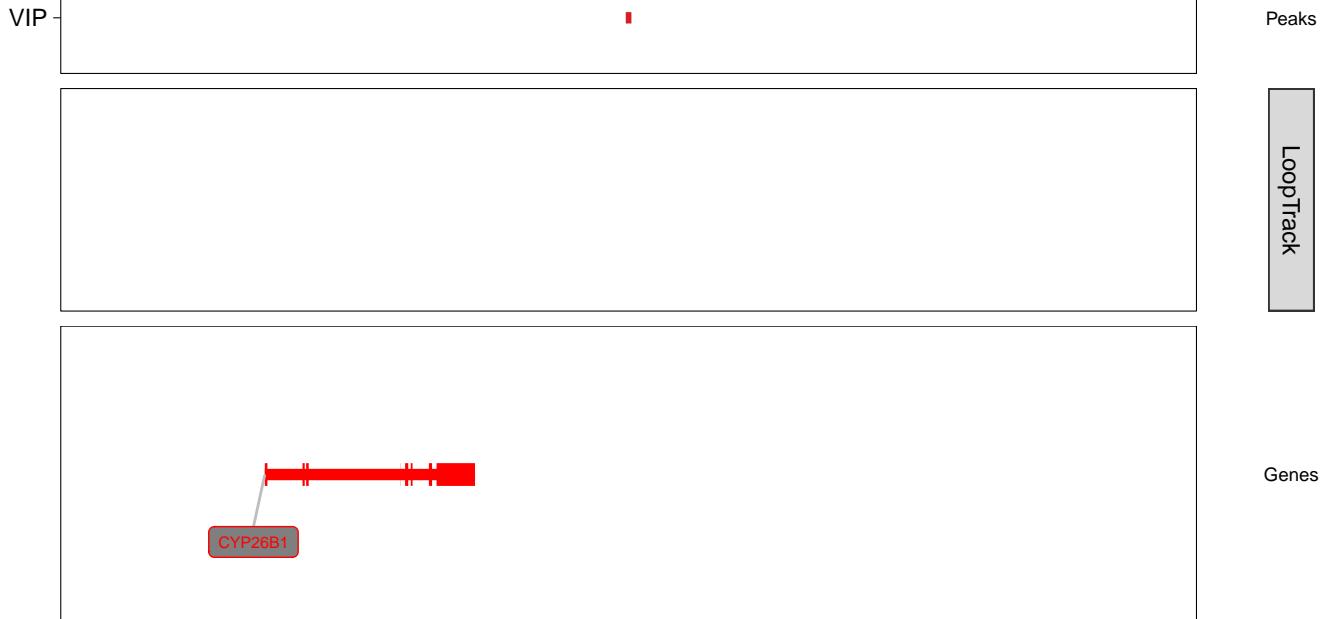
Coverage  
(Norm. ATAC Signal Range (0–1.36) by ReadsInTSS)



## chr13:36638914–36739415 Marker Peak Tracks for: VIP

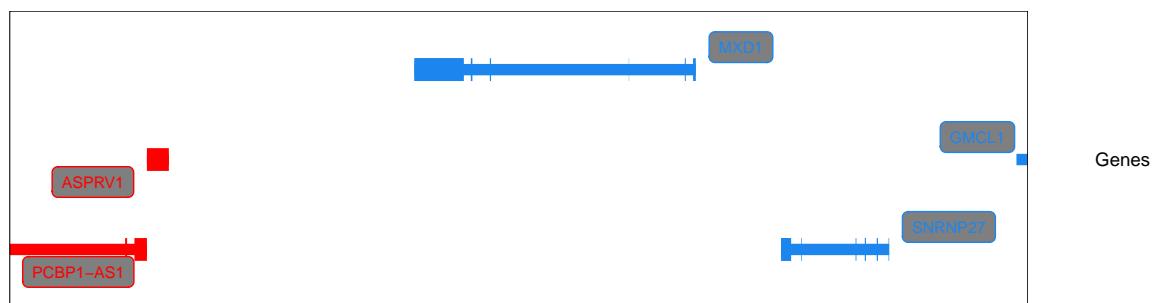
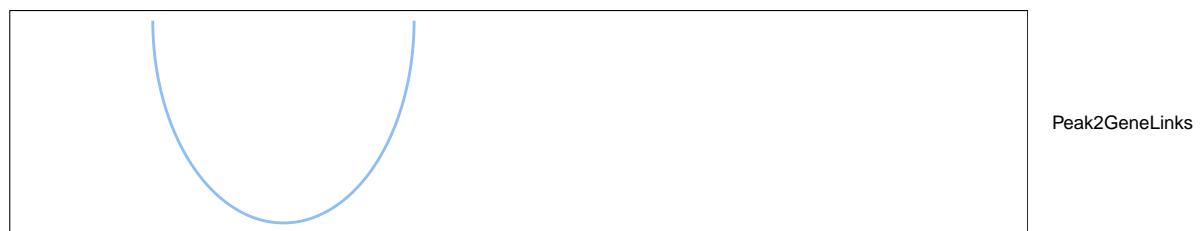
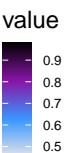
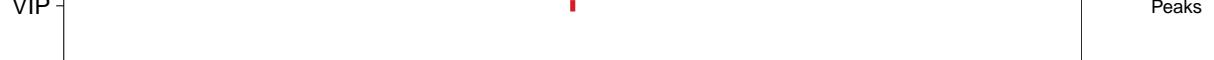
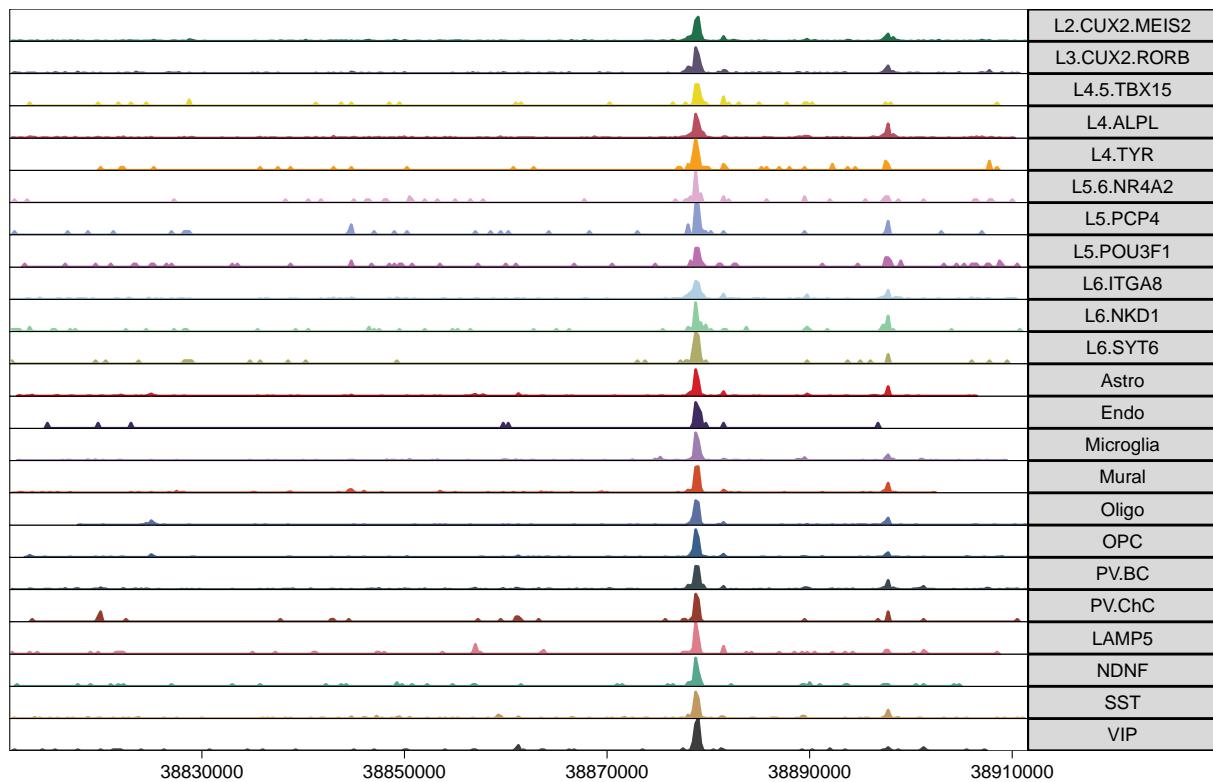
Coverage  
(Norm. ATAC Signal Range (0–0.9) by ReadsInTSS)

36640000 36660000 36680000 36700000 36720000



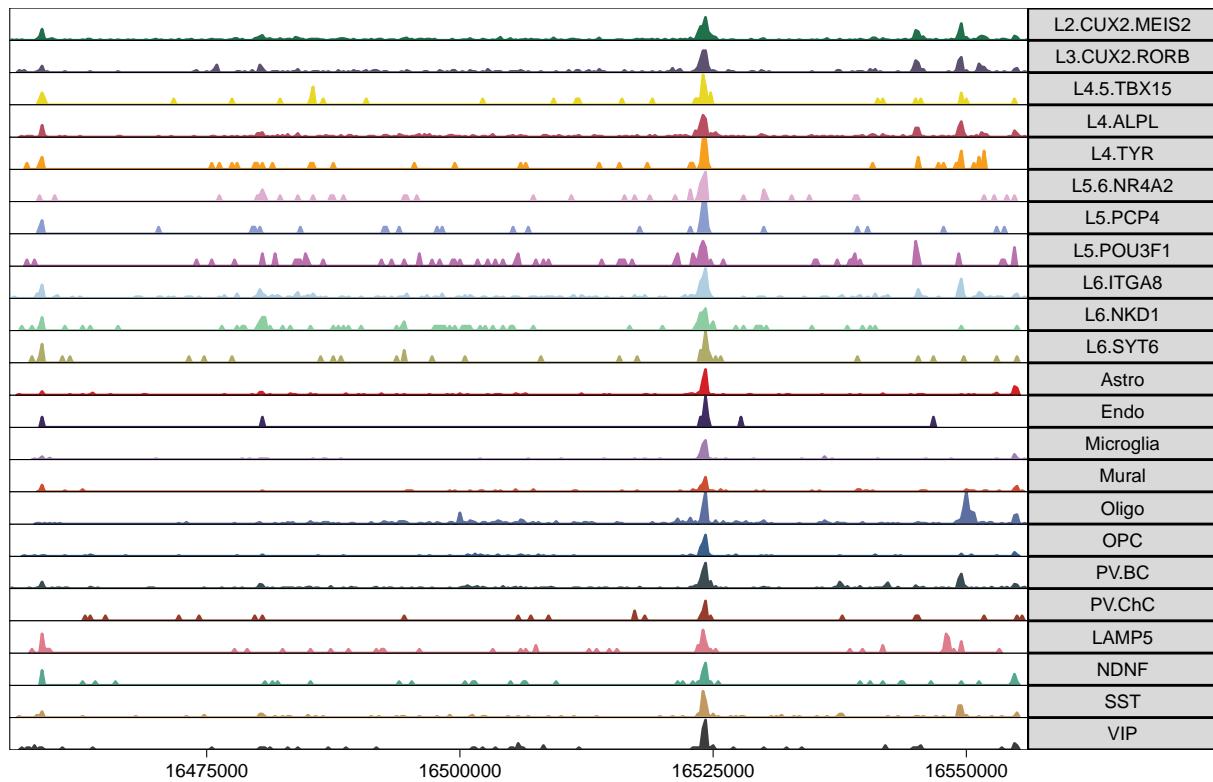
chr13:38811030–38911531 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–2.44) by ReadsInTSS)



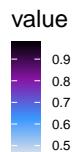
### chr5:16455557–16556058 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.24) by ReadsInTSS)

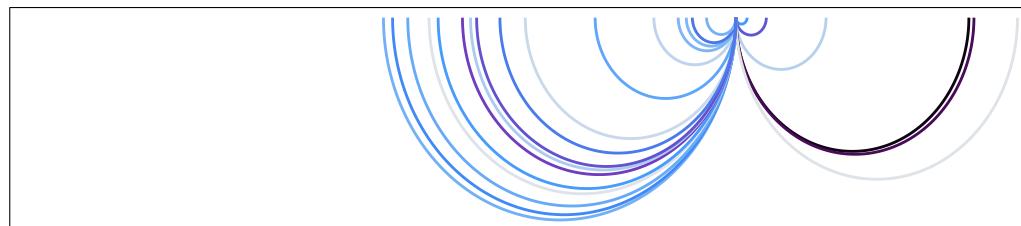


VIP

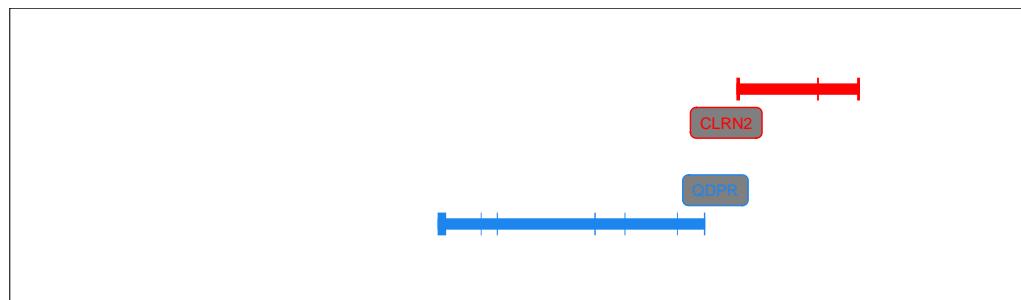
Peaks



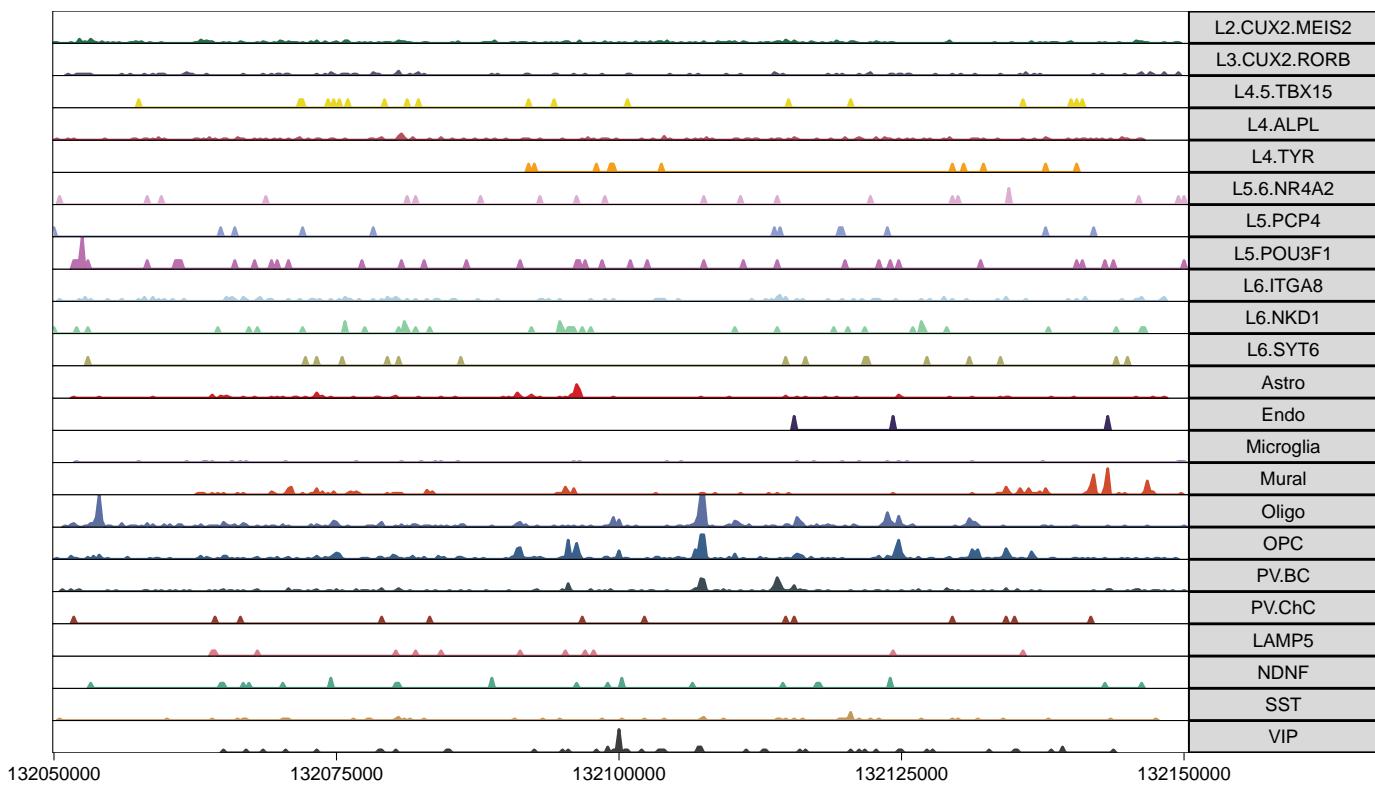
Peak2GeneLinks



Genes

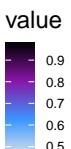
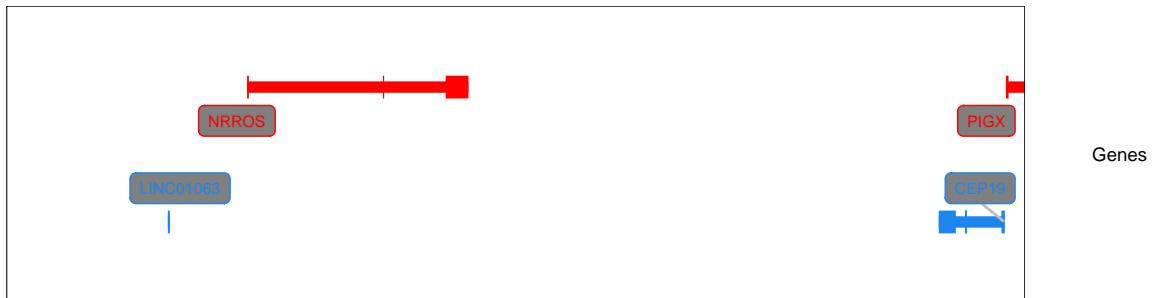
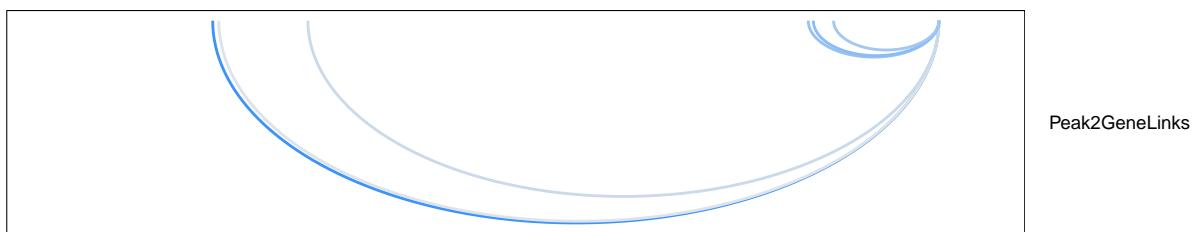
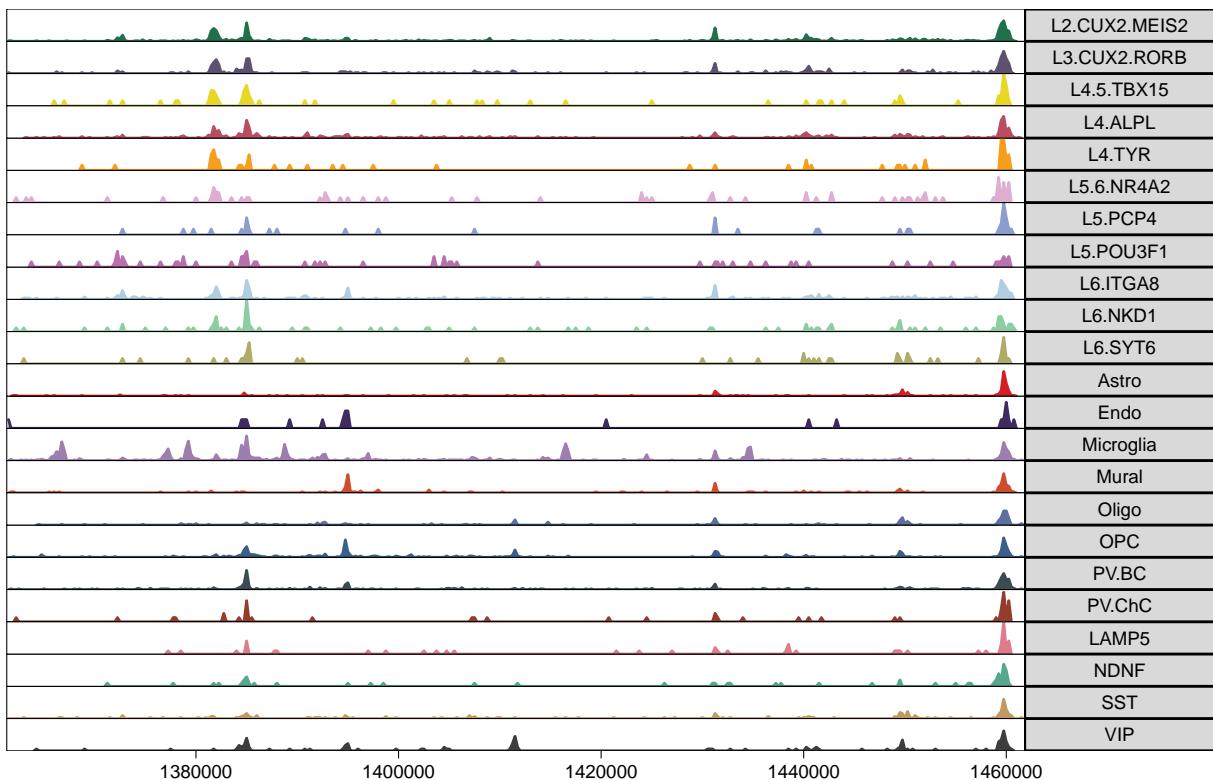


## chr7:132049890–132150391 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0-0.9) by ReadInTSS)

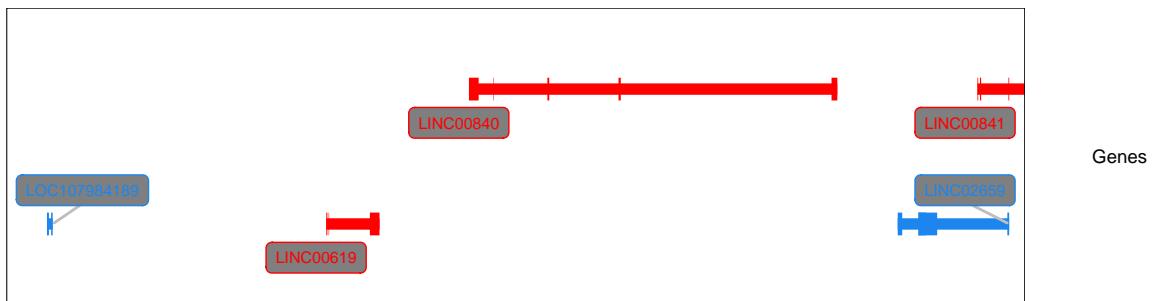
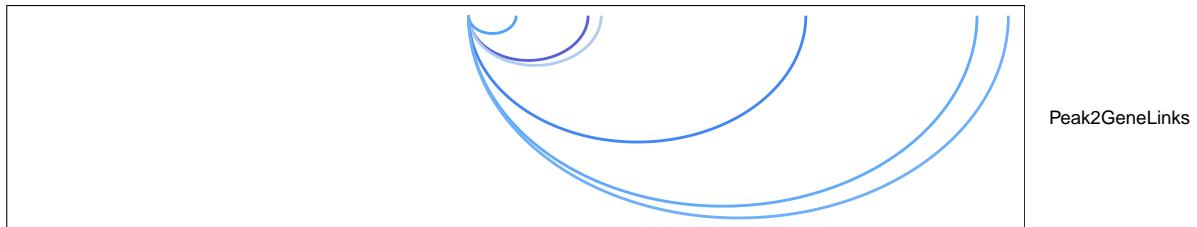
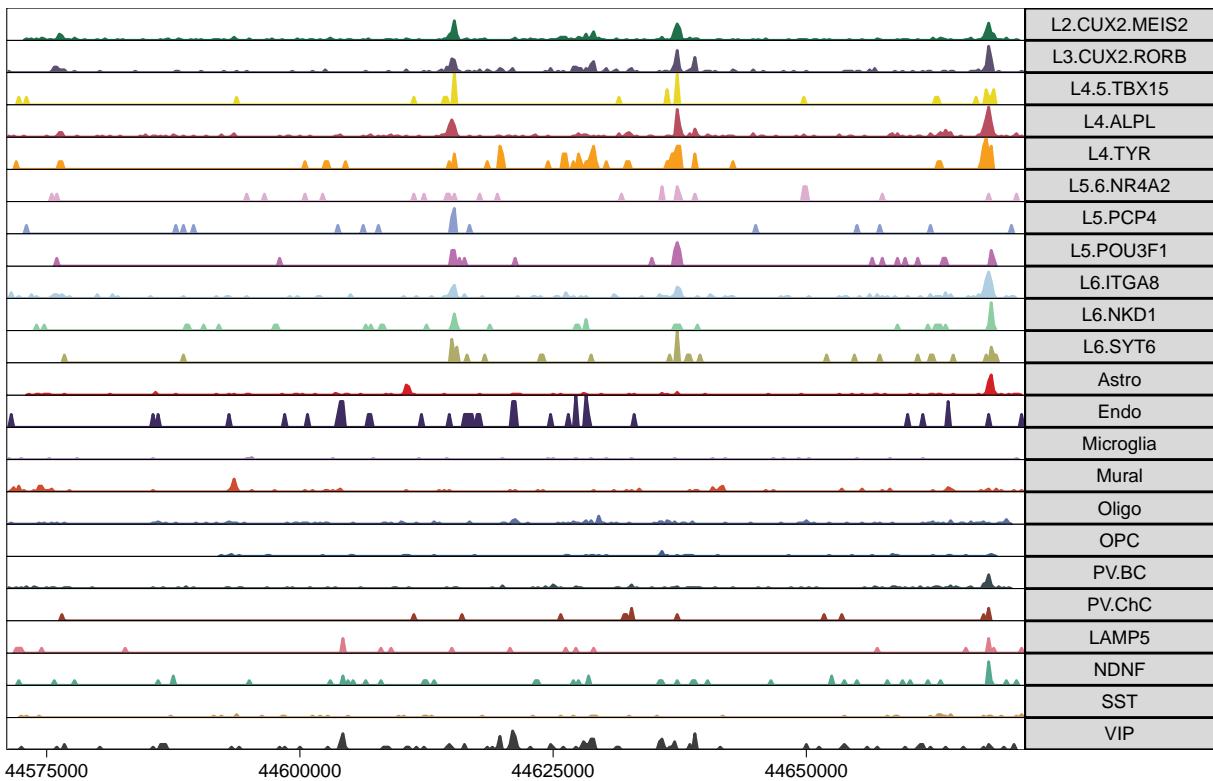
chr2:1361319–1461820 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.45) by ReadsInTSS)

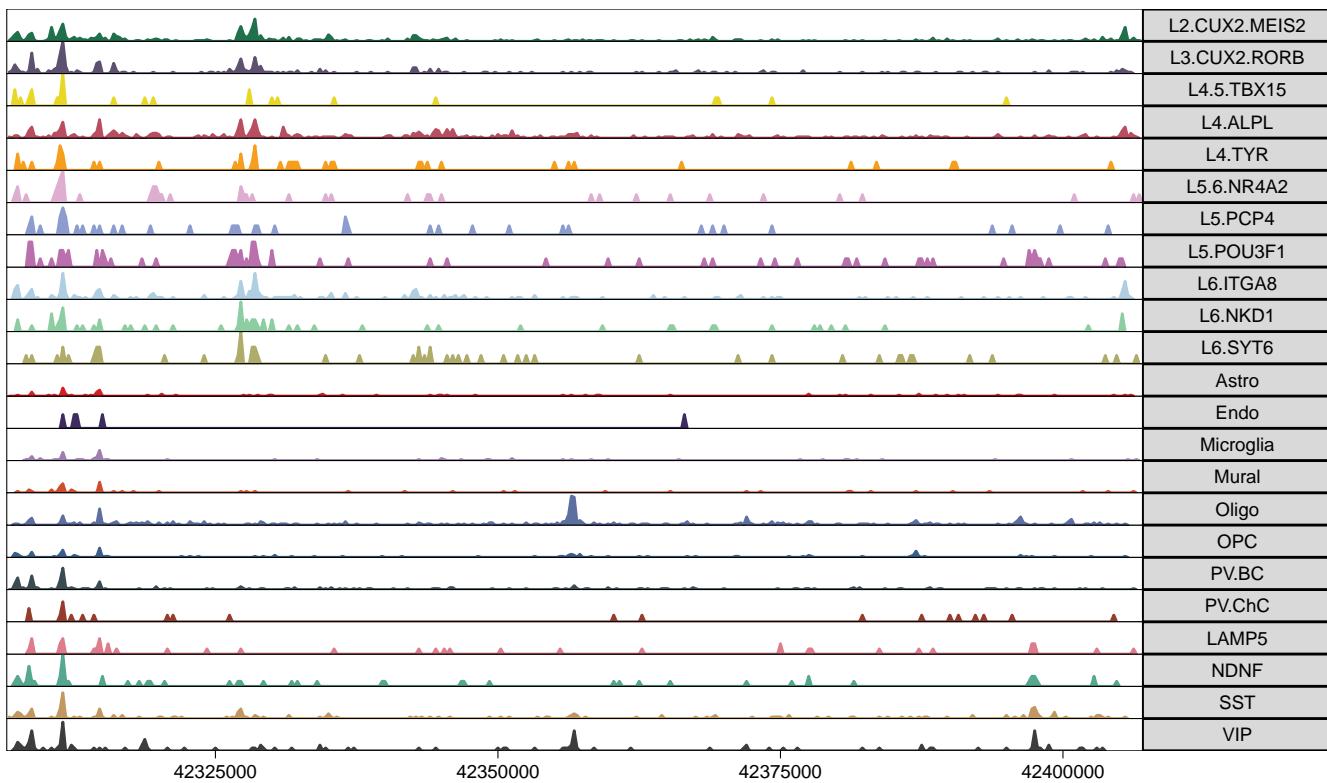


chr9:44571058–44671559 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.98) by ReadsInTSS)

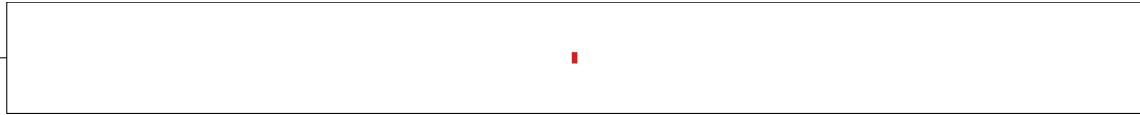


## chr15:42306533–42407034 Marker Peak Tracks for: VIP

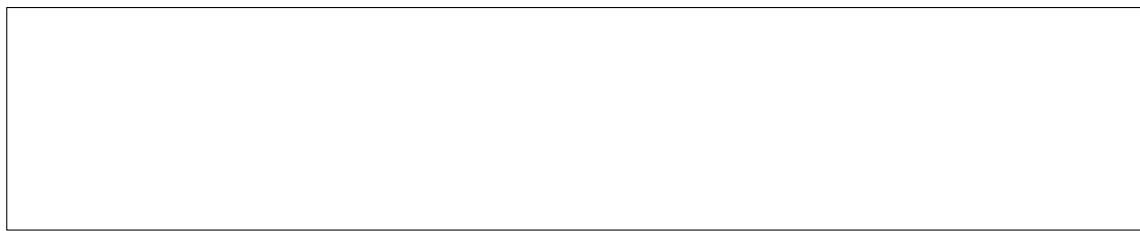
Coverage  
(Norm. ATAC Signal Range (0–0.92) by ReadsInTSS)

VIP

Peaks

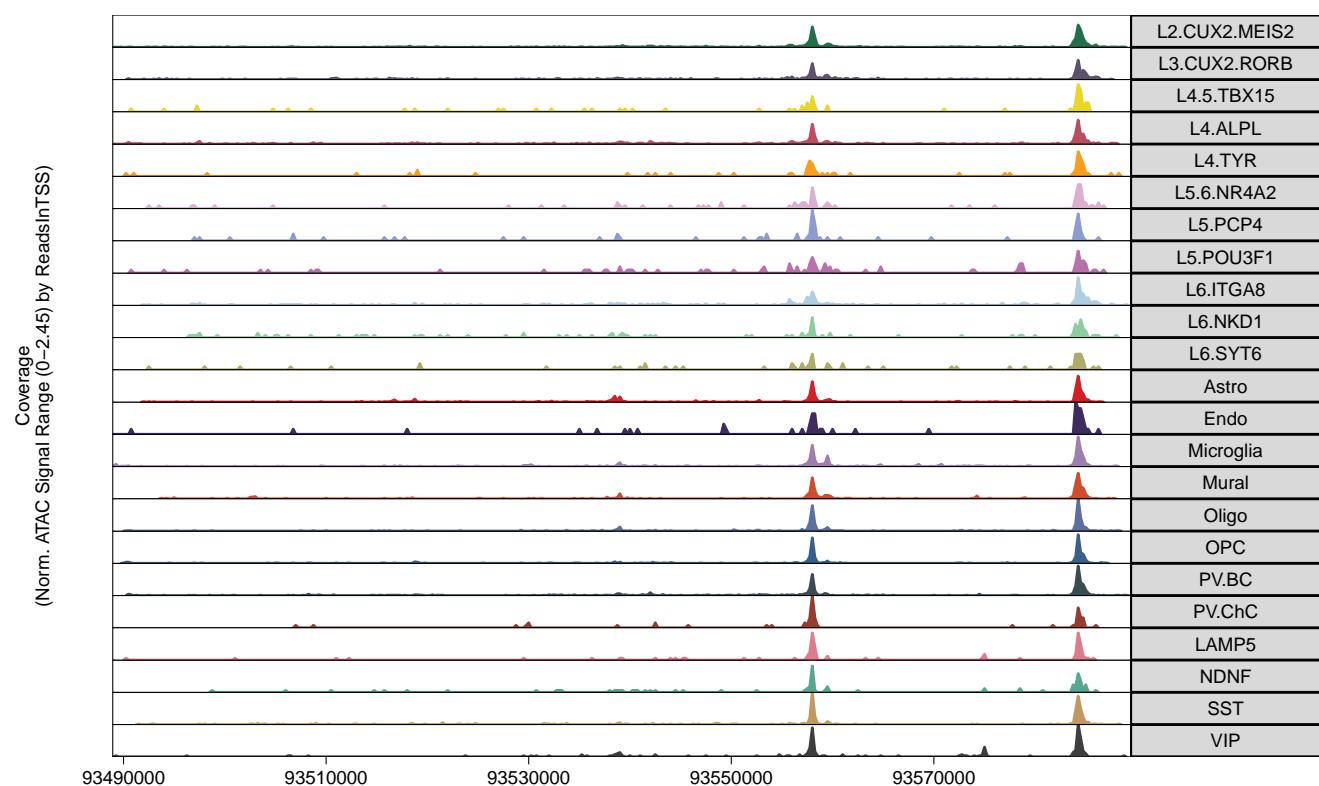


LoopTrack



Genes

chr2:93488933–93589434 Marker Peak Tracks for: VIP

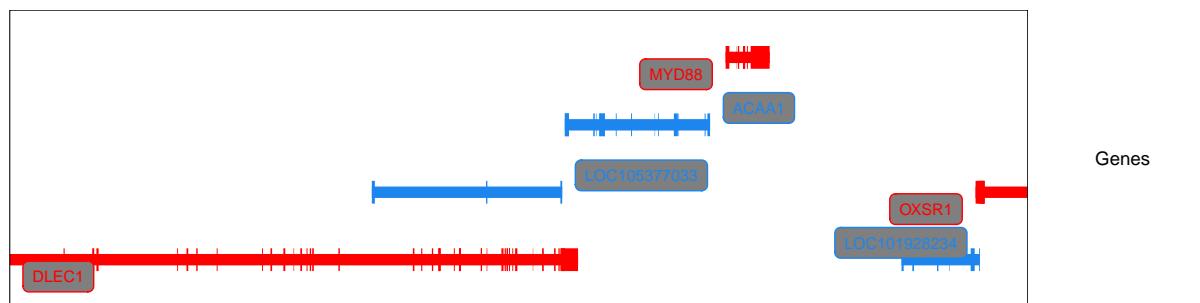
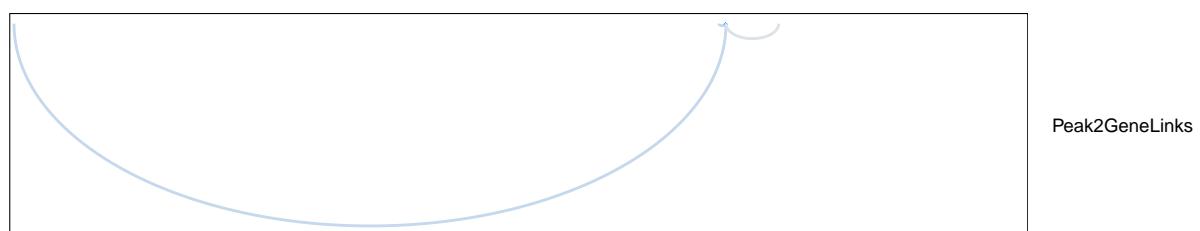


93490000      93510000      93530000      93550000      93570000

VIP - Peaks

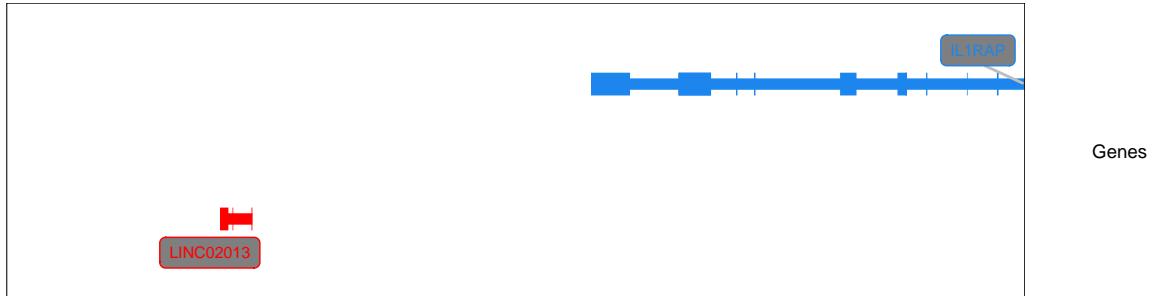
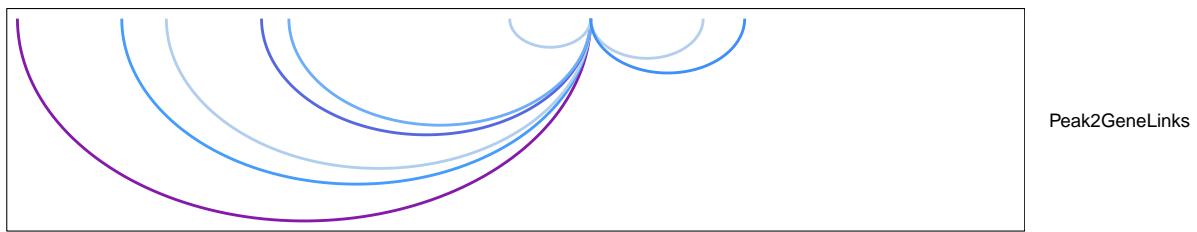
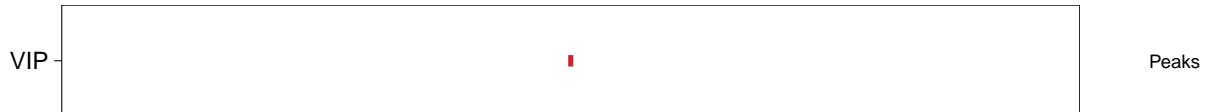
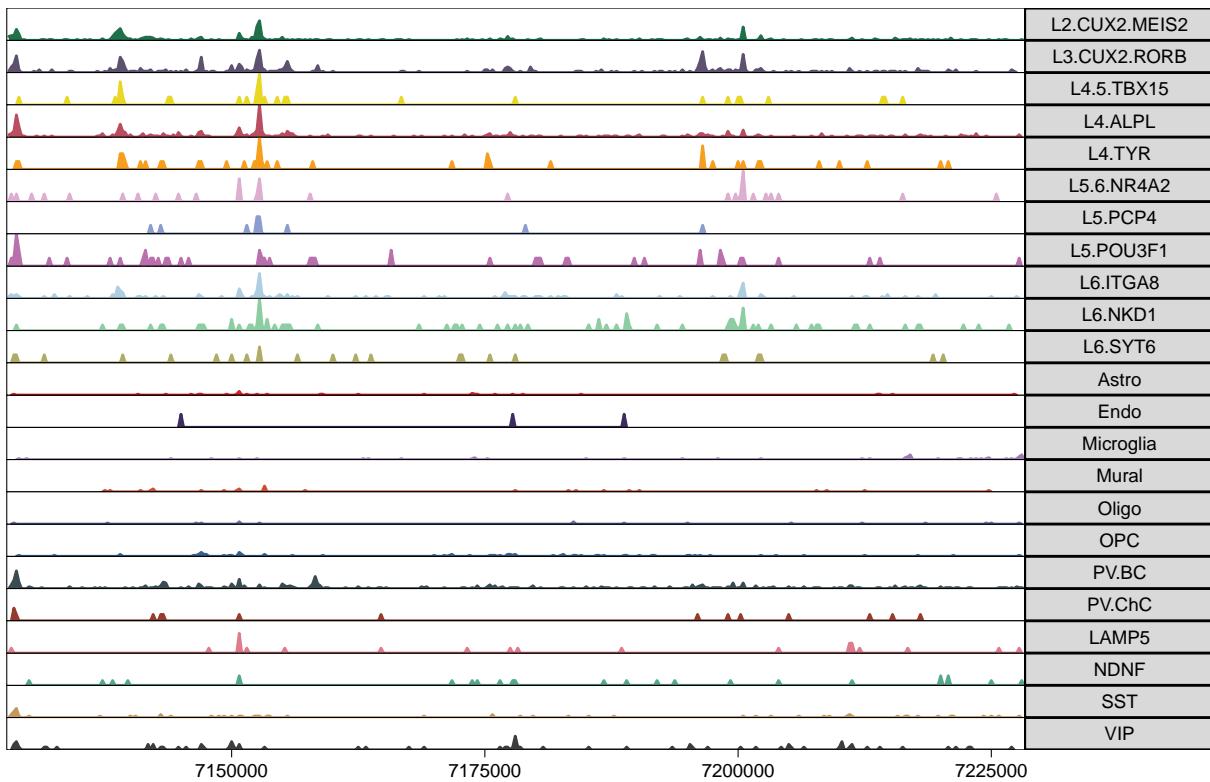


Peak2GeneLinks

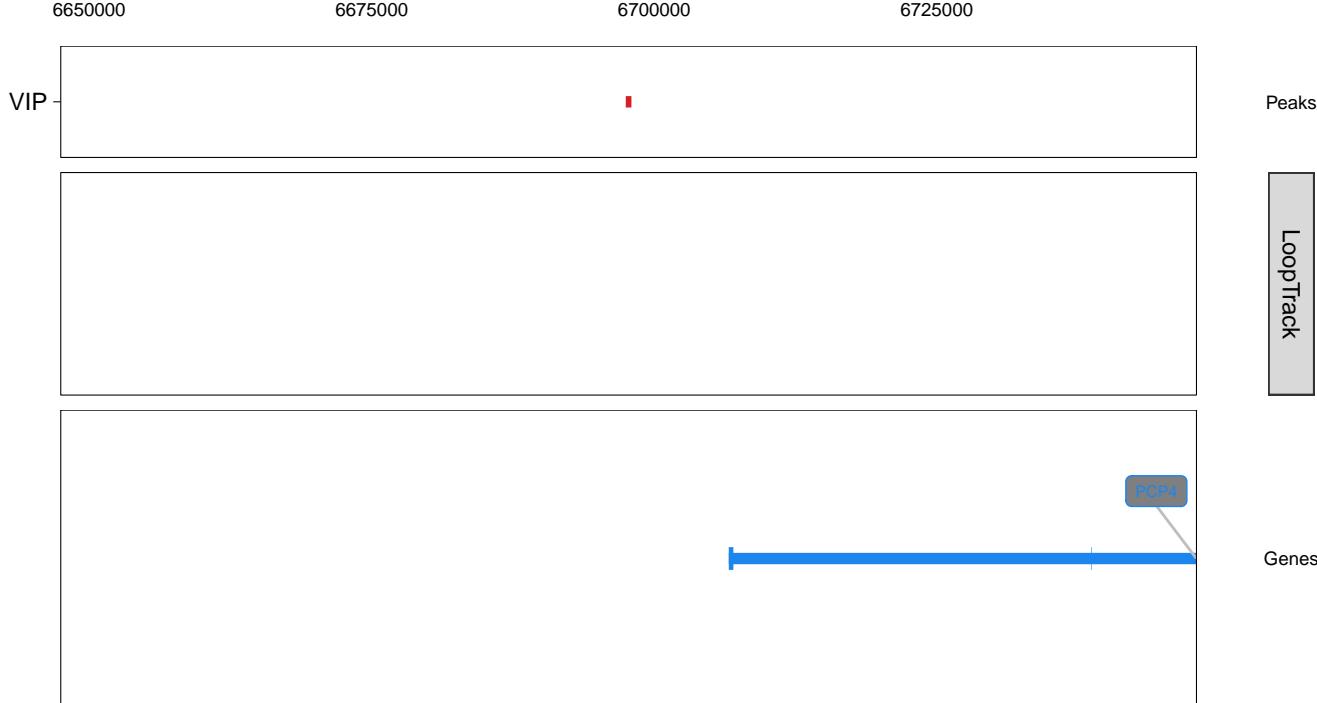
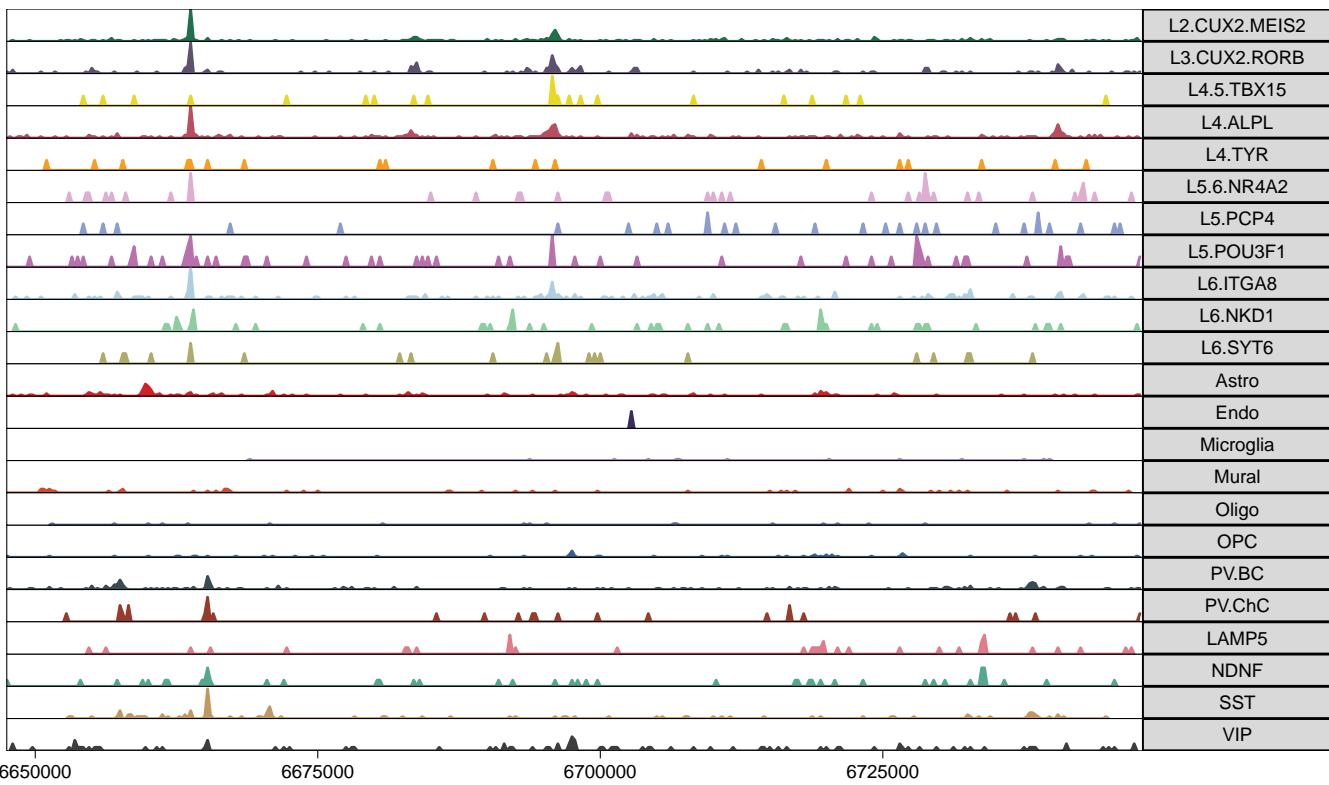


# chr2:7127796–7228297 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.96) by ReadsInTSS)

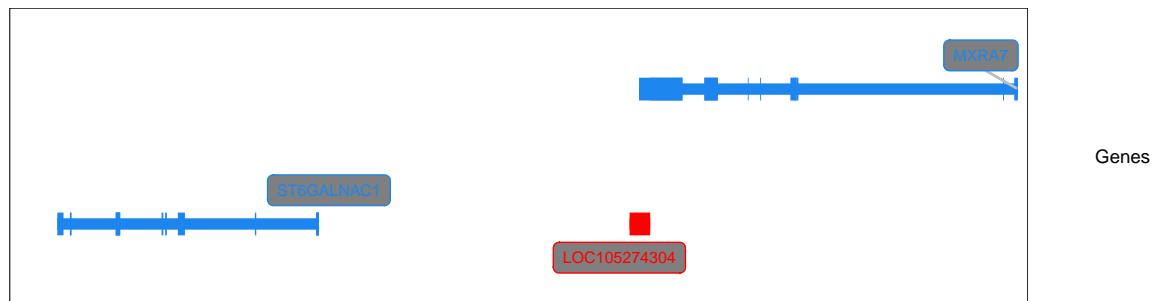
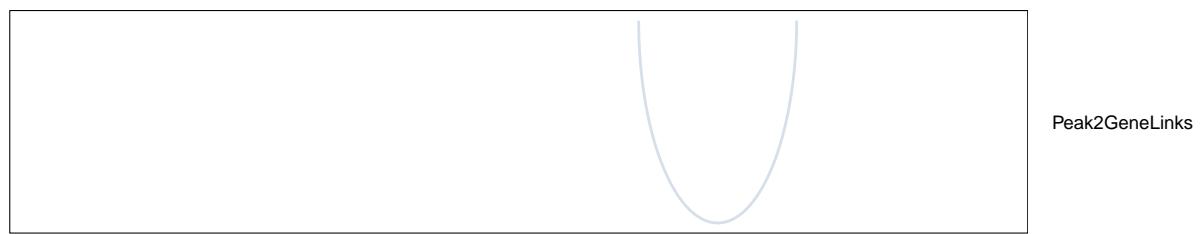
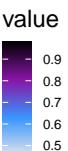
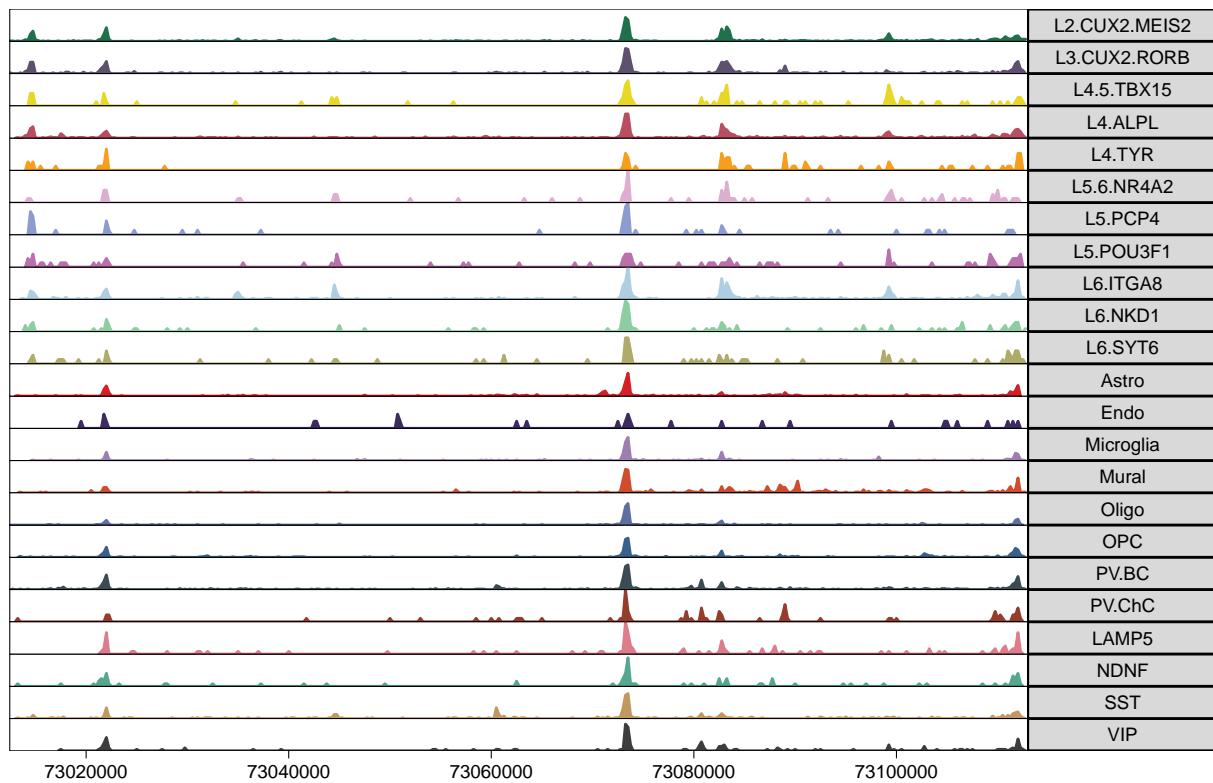


## chr3:6647476–6747977 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.75) by ReadsInTSS)

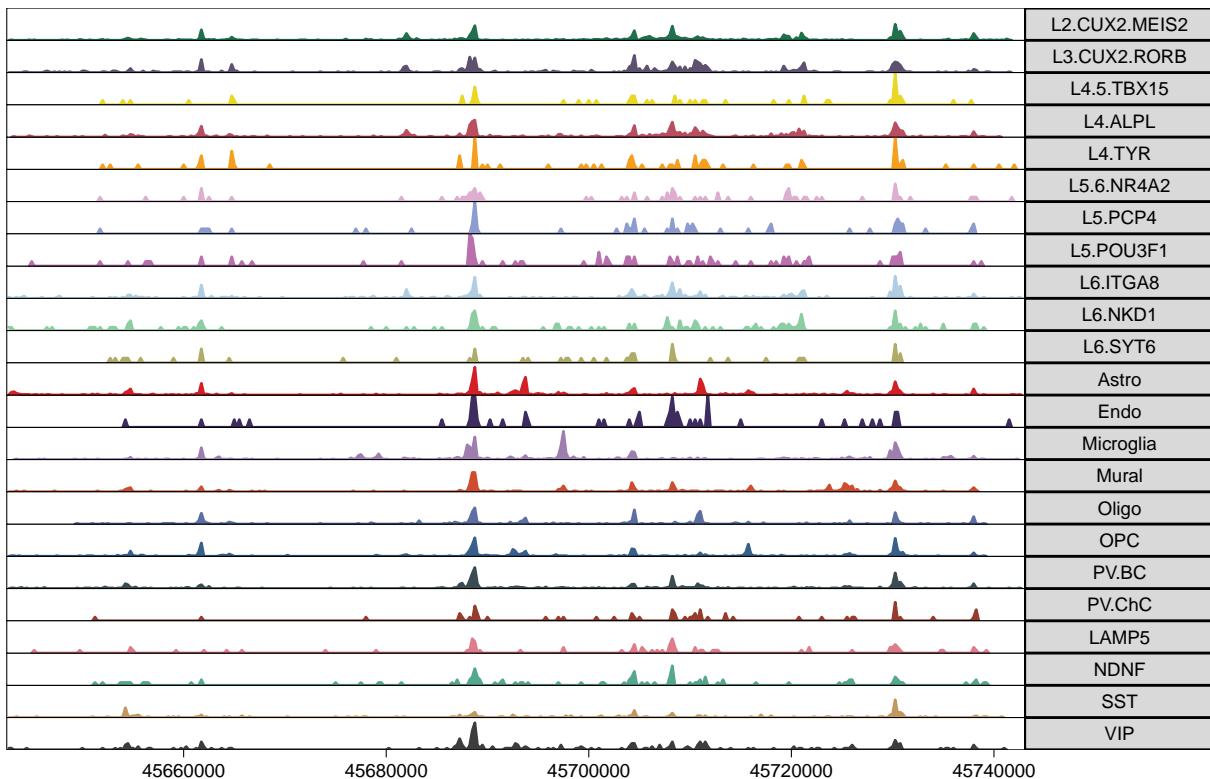
chr16:73012459–73112960 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.77) by ReadsInTSS)



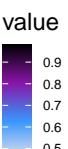
chr9:45642536–45743037 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.66) by ReadInTSS)

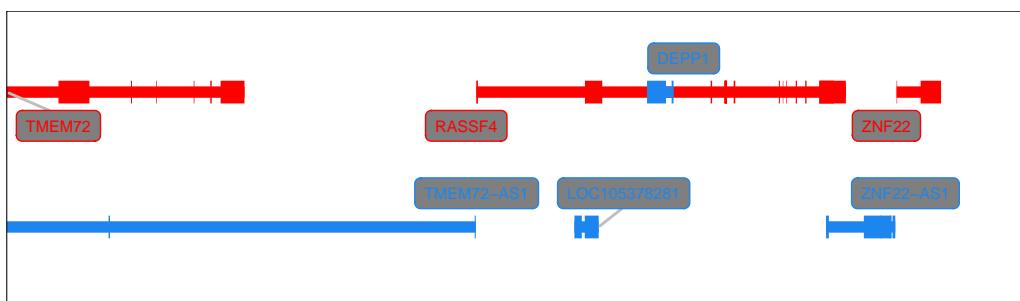
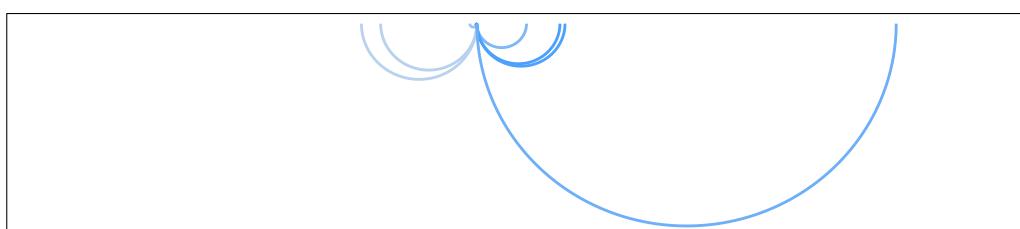


45660000 45680000 45700000 45720000 45740000

VIP - Peaks

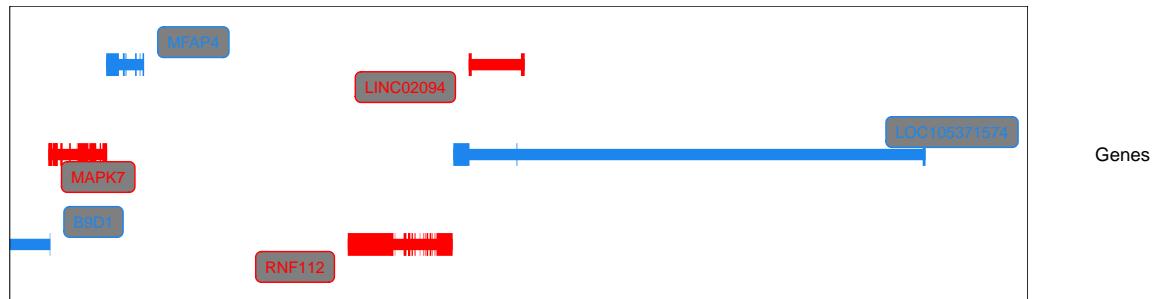
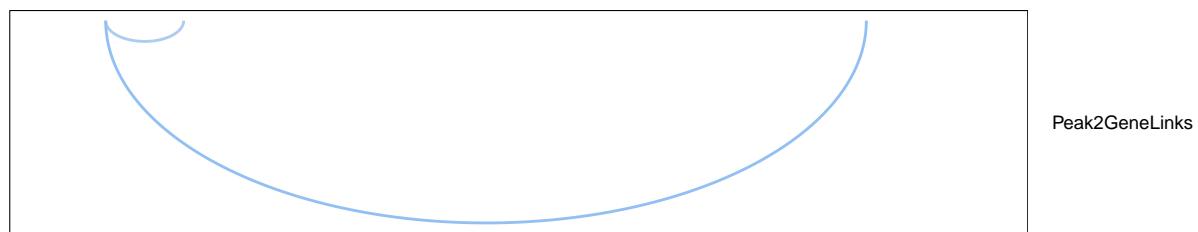
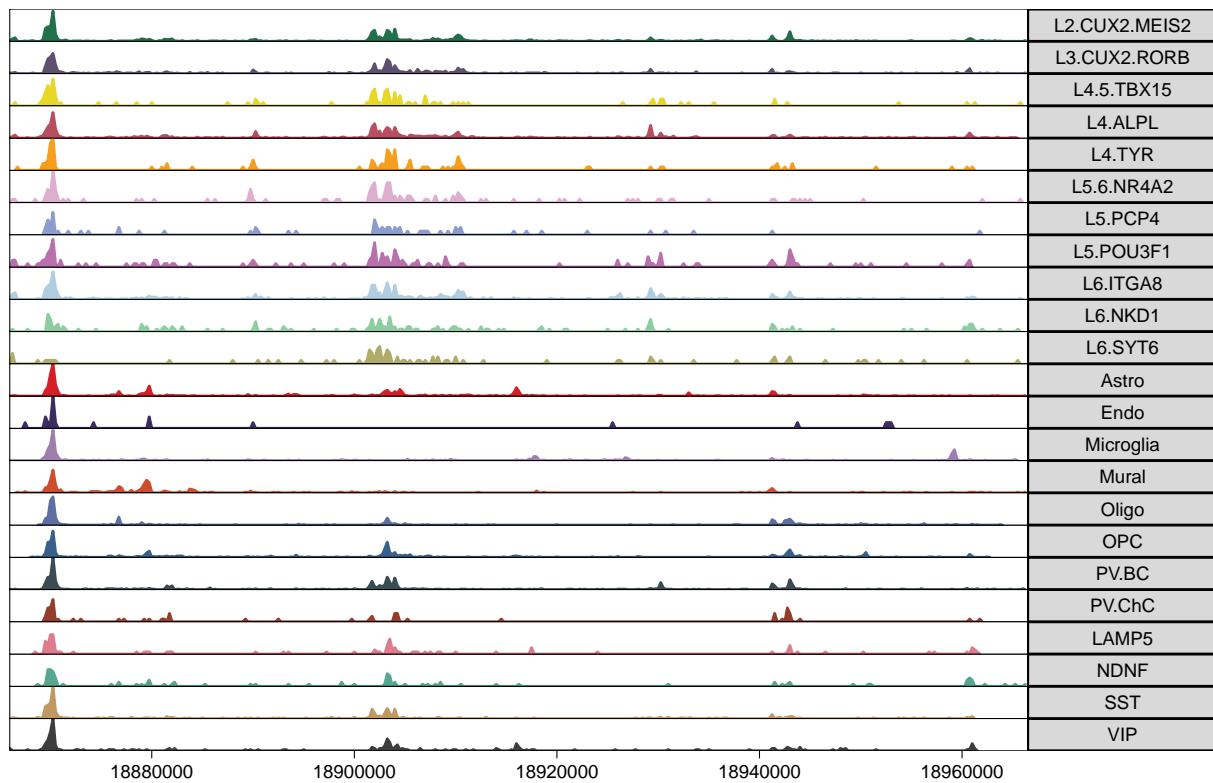


Peak2GeneLinks

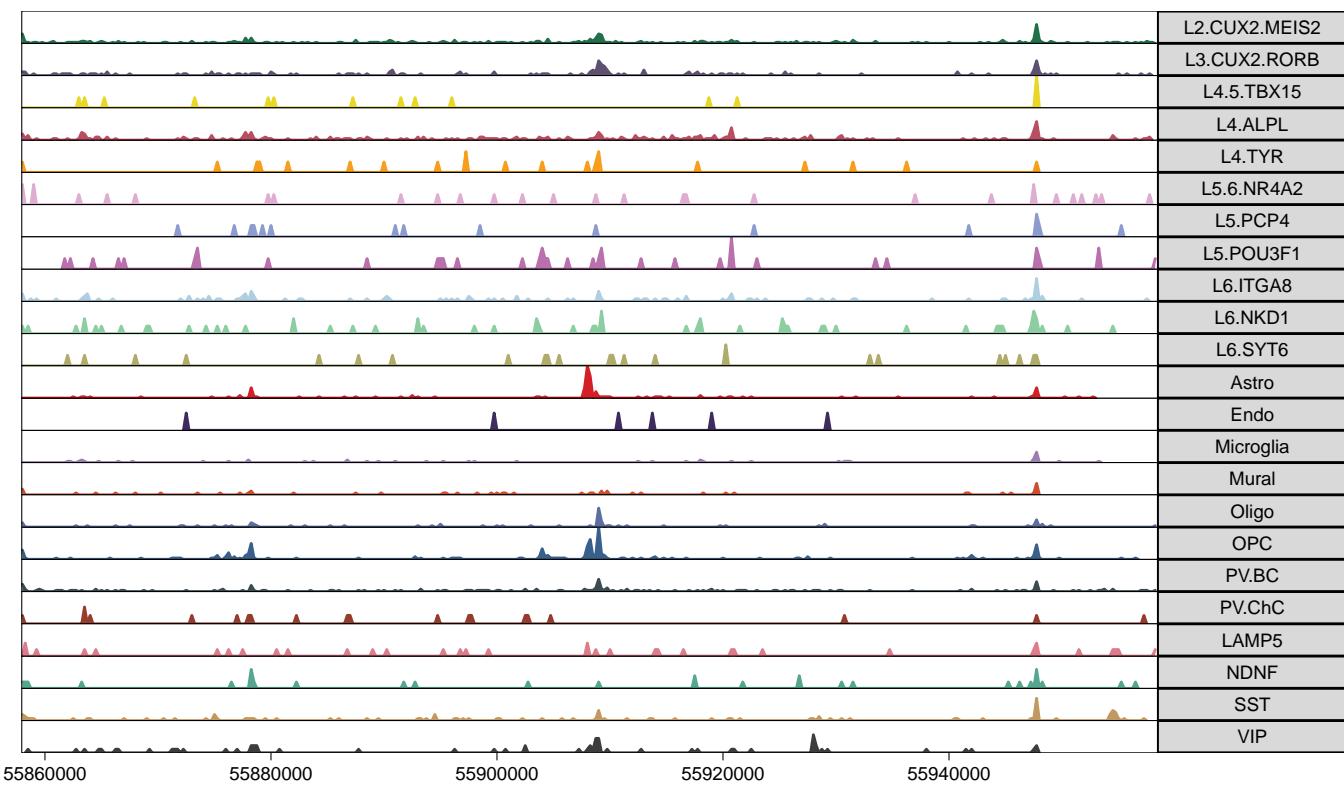


chr16:18865979–18966480 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0-2.2) by ReadsInTSS)



## chr7:55857945–55958446 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.73) by ReadsInTSS)

55860000 55880000 55900000 55920000 55940000

VIP

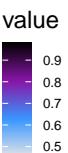
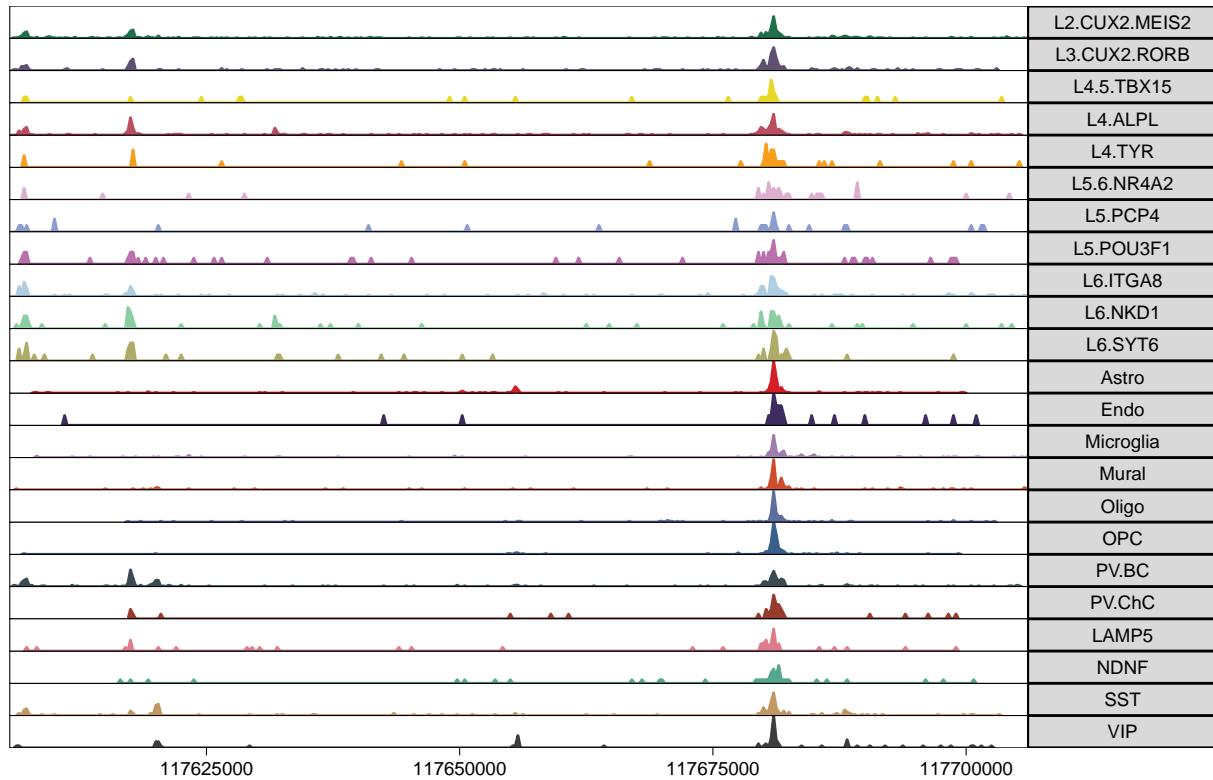
Peaks

LoopTrack

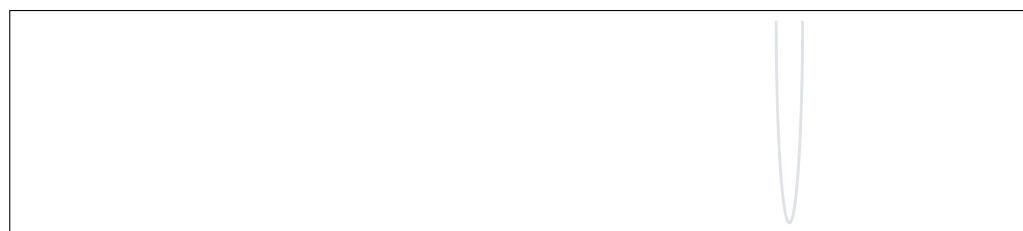


chr7:117605579–117706080 Marker Peak Tracks for: VIP

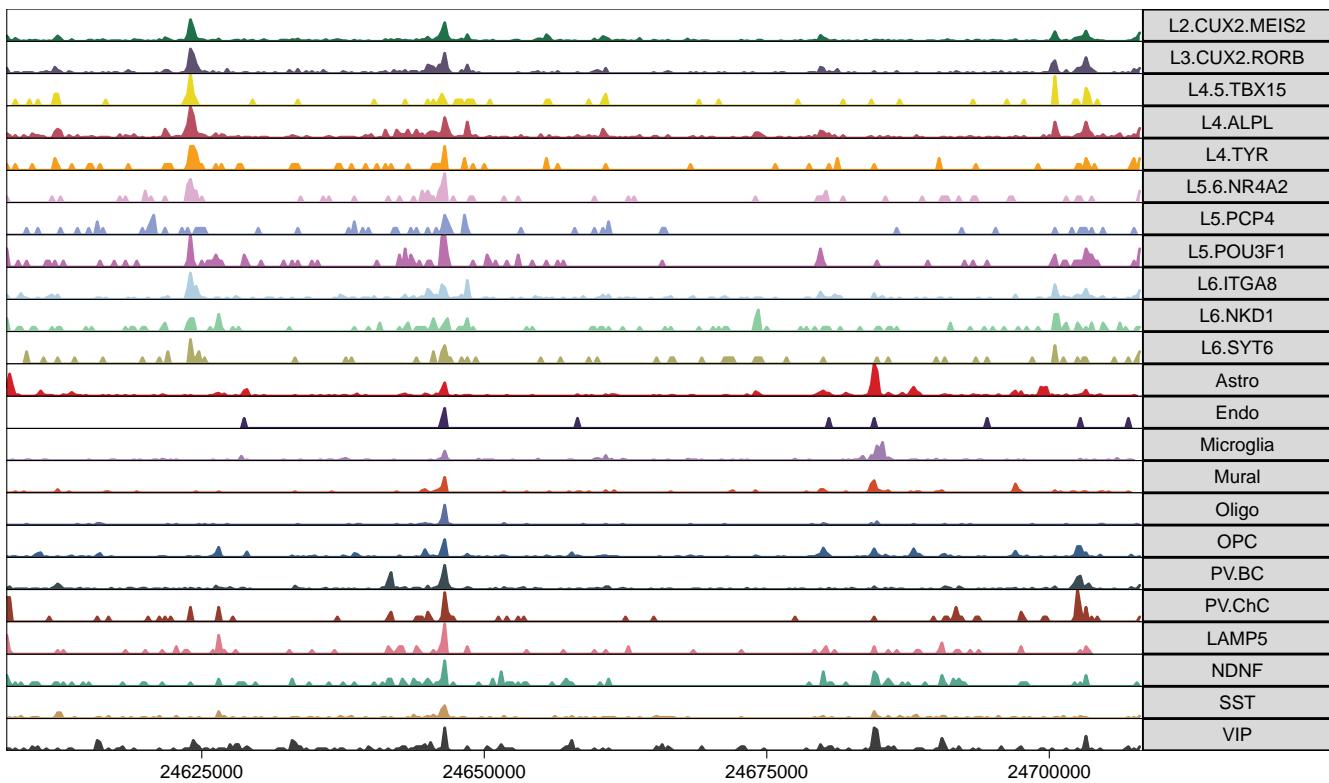
Coverage  
(Norm. ATAC Signal Range (0–1.29) by ReadsInTSS)



Peak2GeneLinks



## chr16:24607743-24708244 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0-1.26) by ReadsInTSS)

VIP

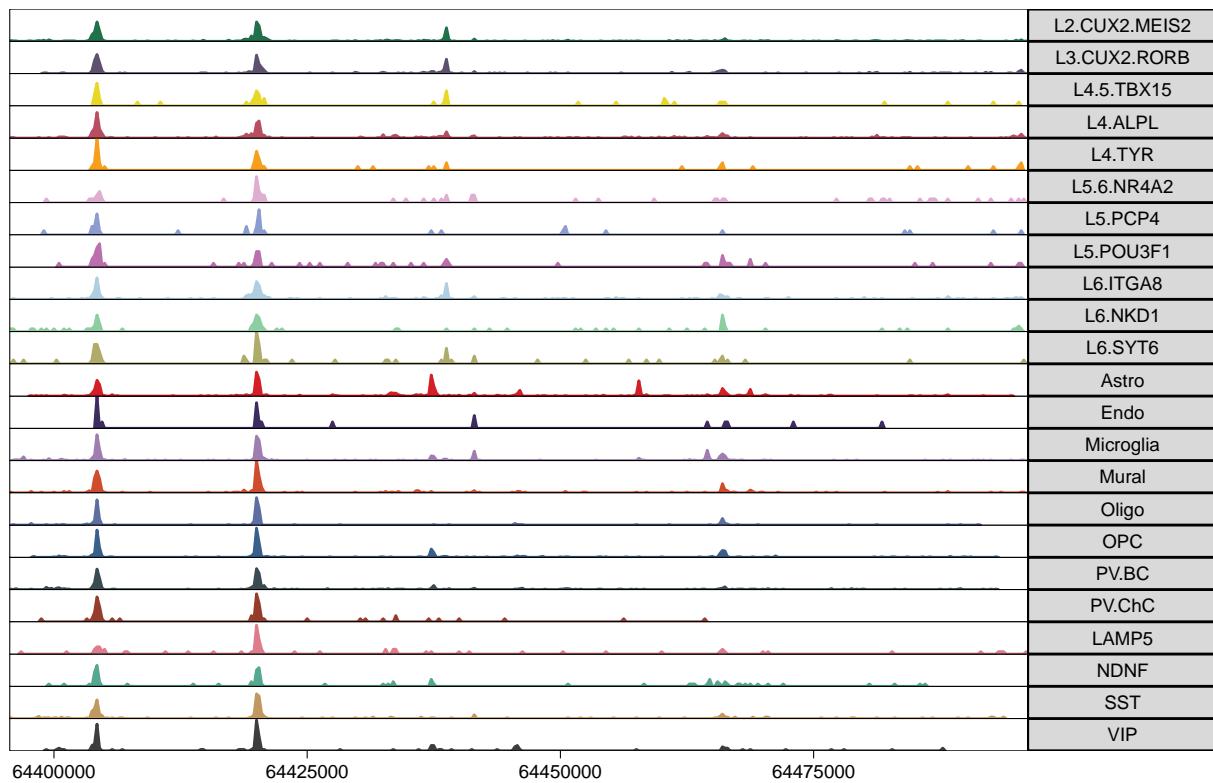
Peaks

LoopTrack

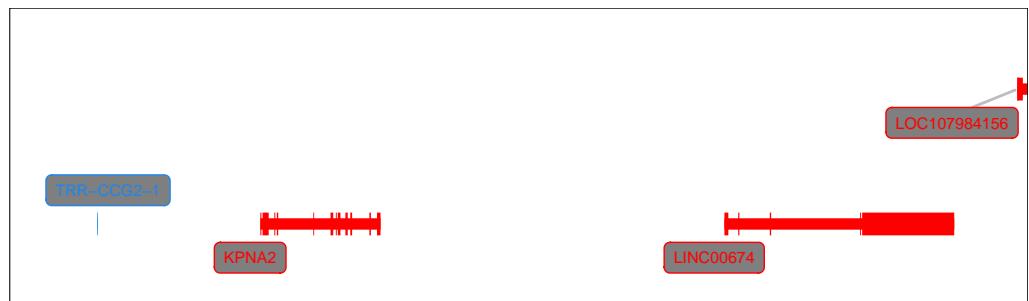
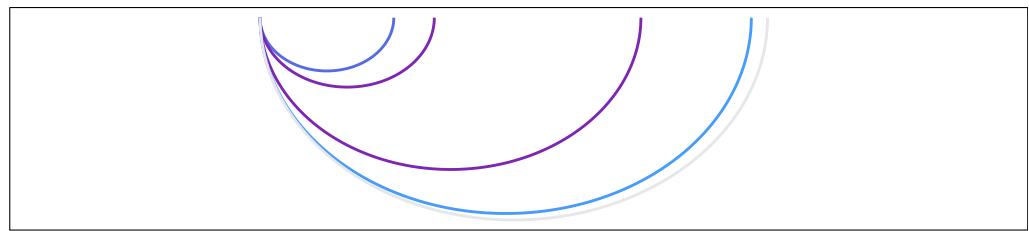


chr16:64395635–64496136 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.97) by ReadsInTSS)

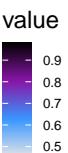
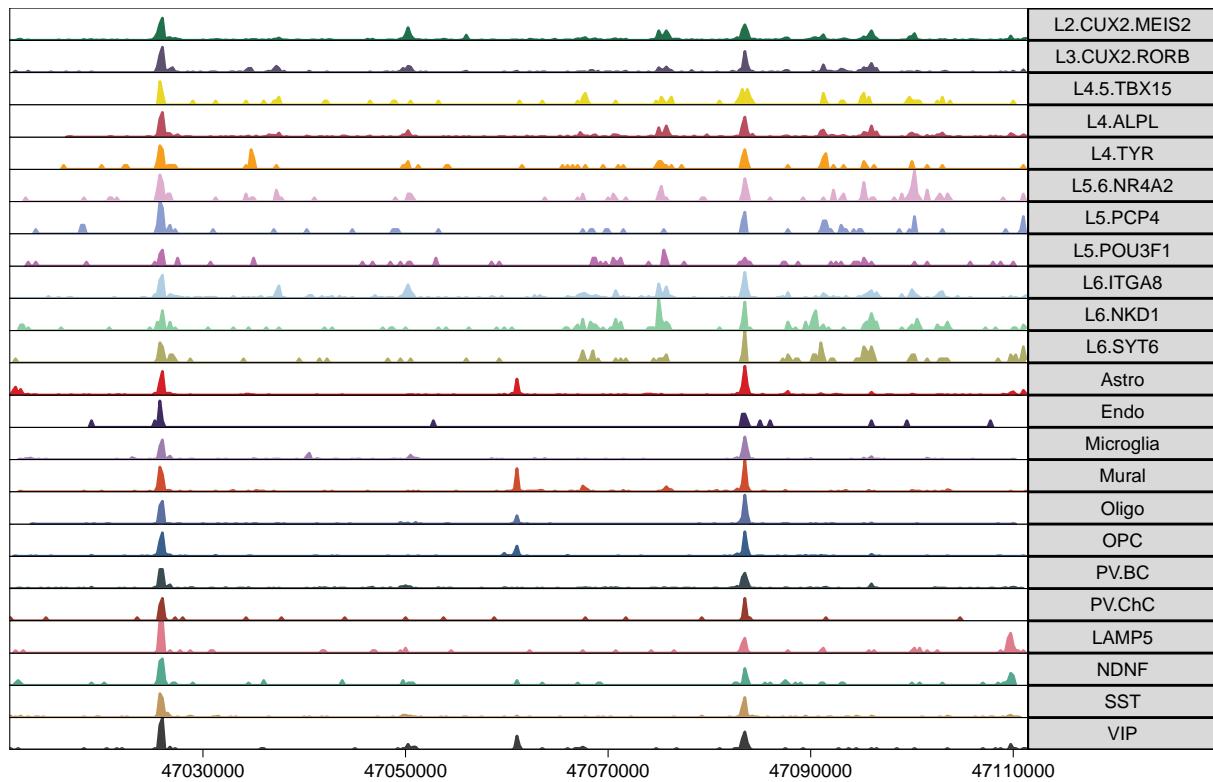


64400000      64425000      64450000      64475000

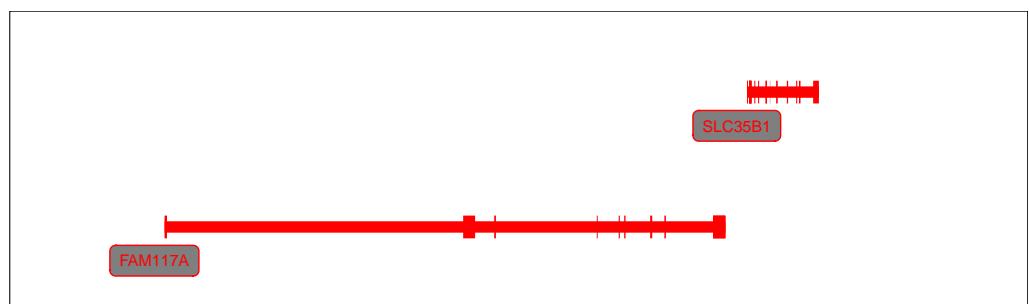
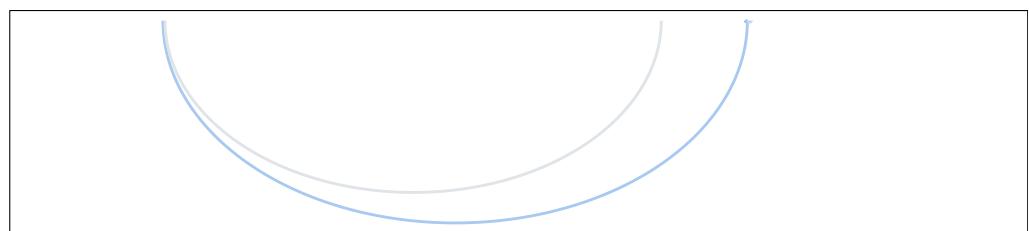


chr16:47010926–47111427 Marker Peak Tracks for: VIP

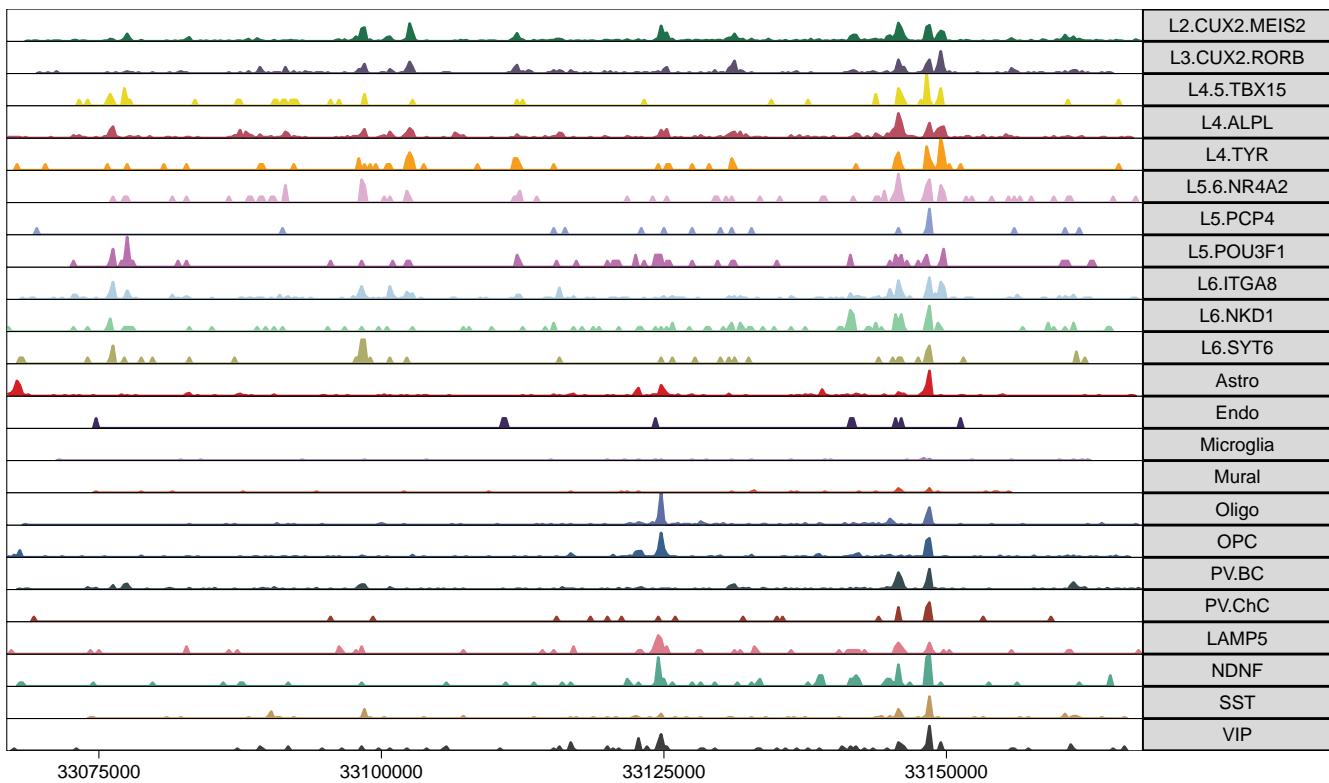
Coverage  
(Norm. ATAC Signal Range (0–1.91) by ReadsInTSS)



Peak2GeneLinks



## chr1:33066845–33167346 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.28) by ReadsInTSS)

33075000

33100000

33125000

33150000

VIP

Peaks

LoopTrack

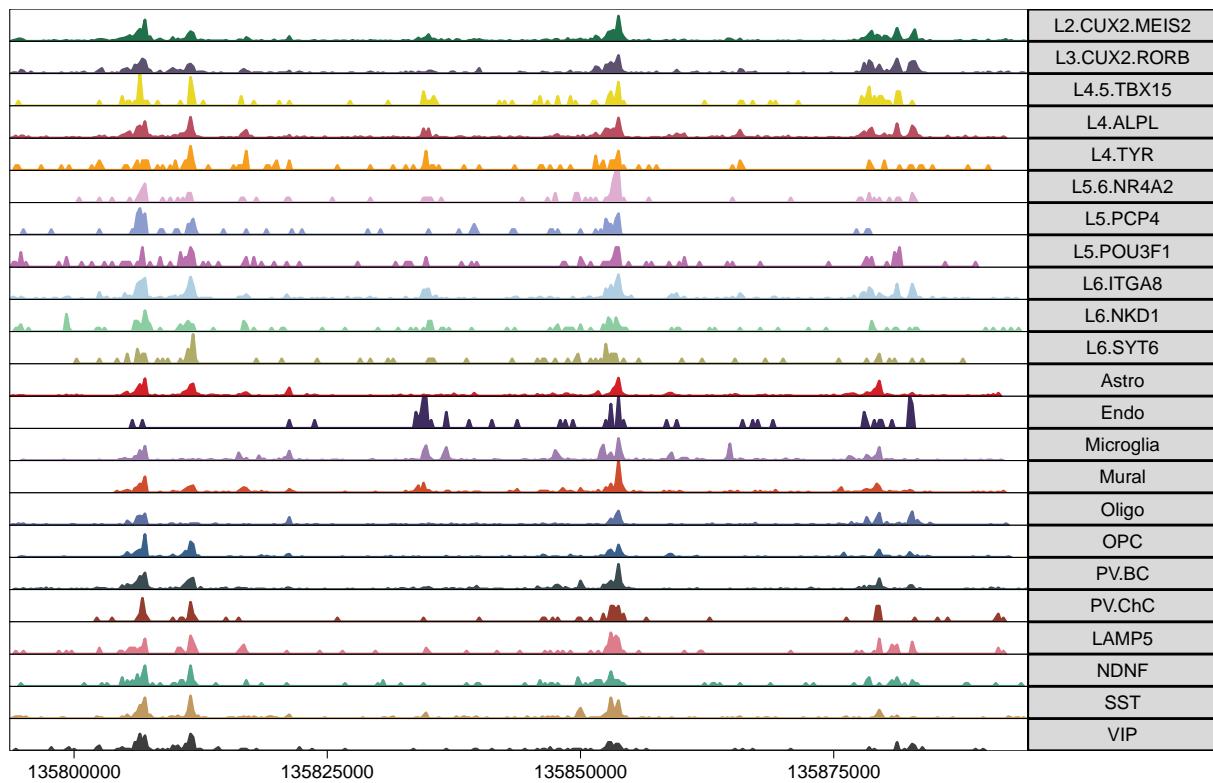
LINC01657

LINC02803

Genes

chr7:135793650–135894151 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.56) by ReadsInTSS)

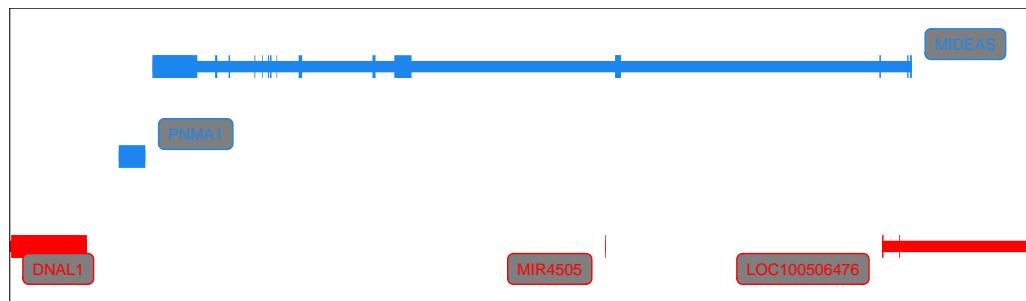
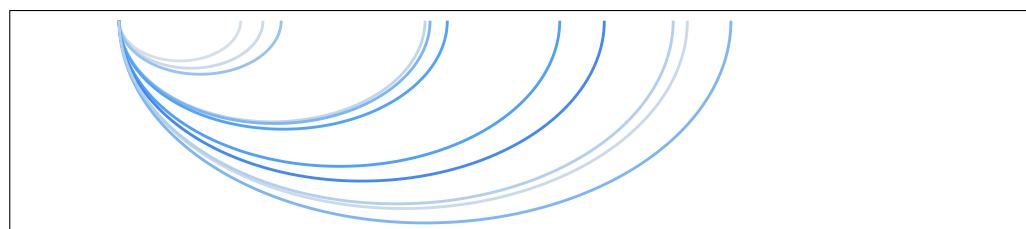


VIP

Peaks



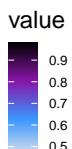
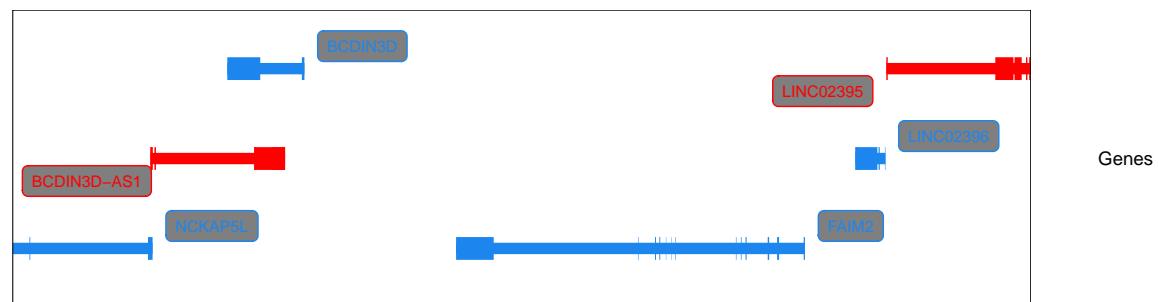
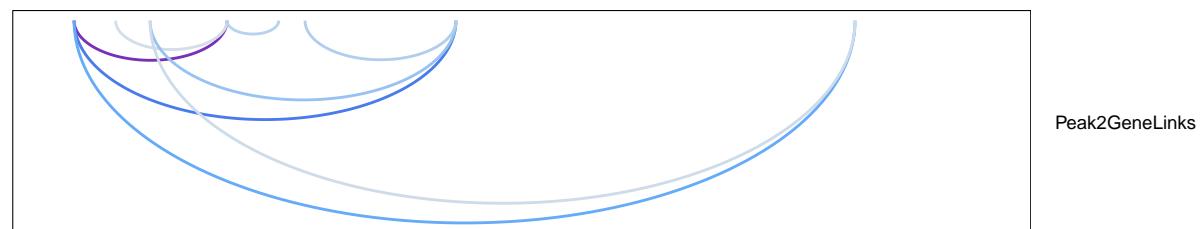
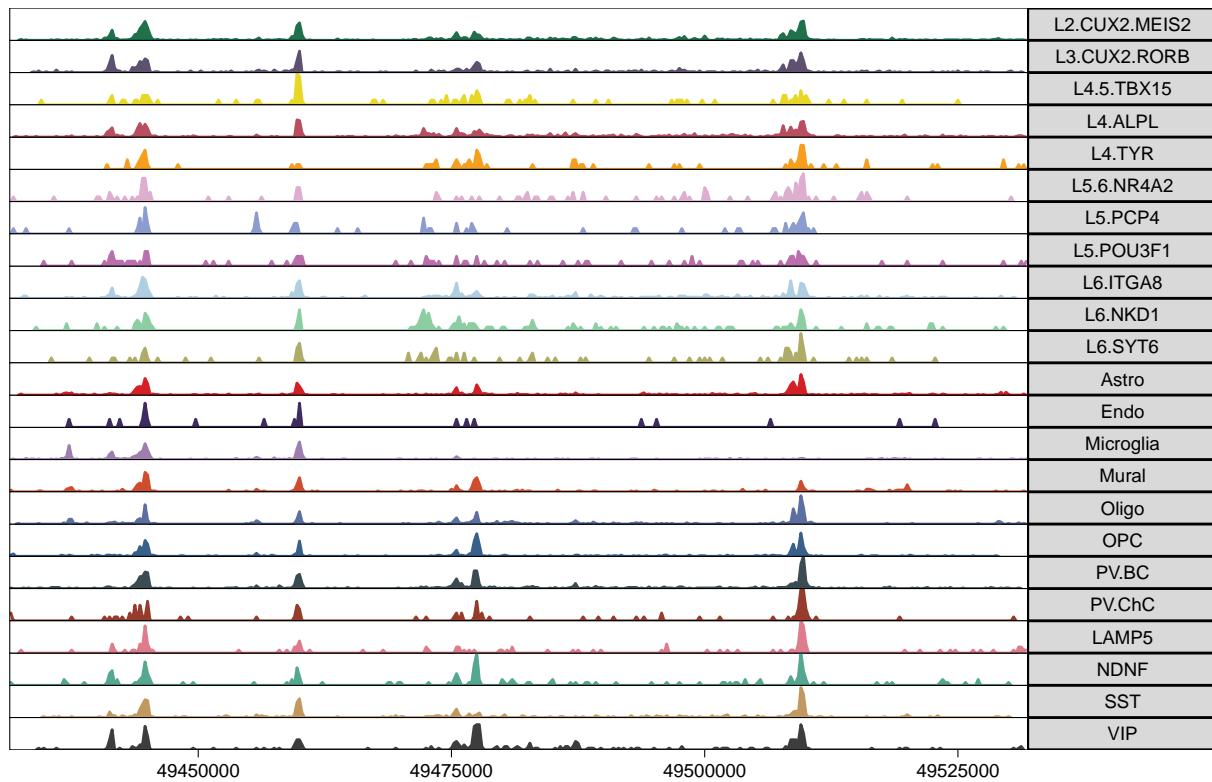
Peak2GeneLinks



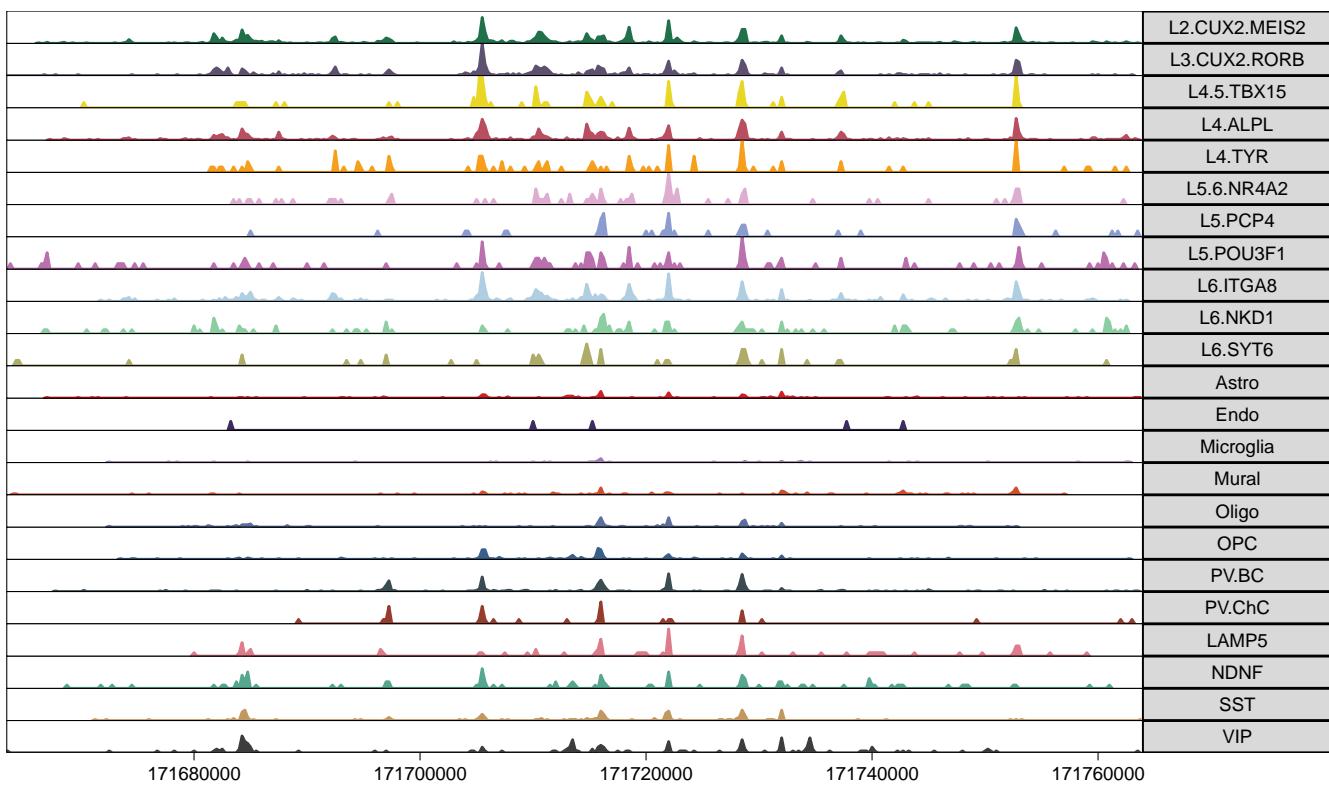
Genes

# chr11:49431391–49531892 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.5) by ReadInTSS)

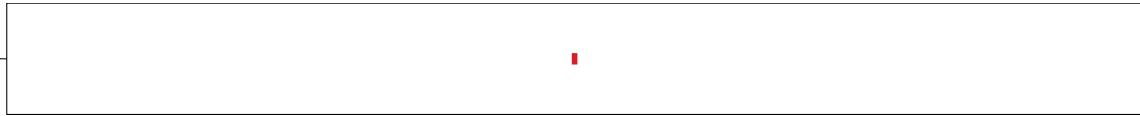


## chr6:171663426–171763927 Marker Peak Tracks for: VIP

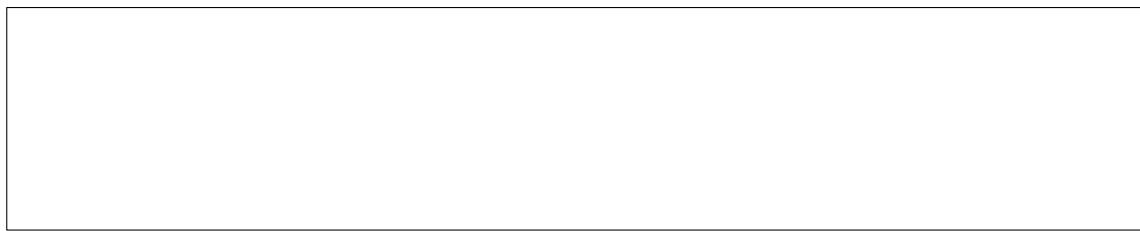
Coverage  
(Norm. ATAC Signal Range (0-1.4) by ReadInTSS)

VIP

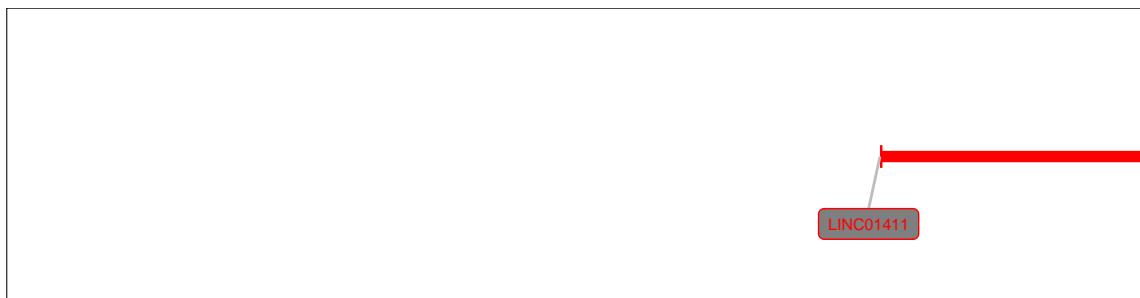
Peaks



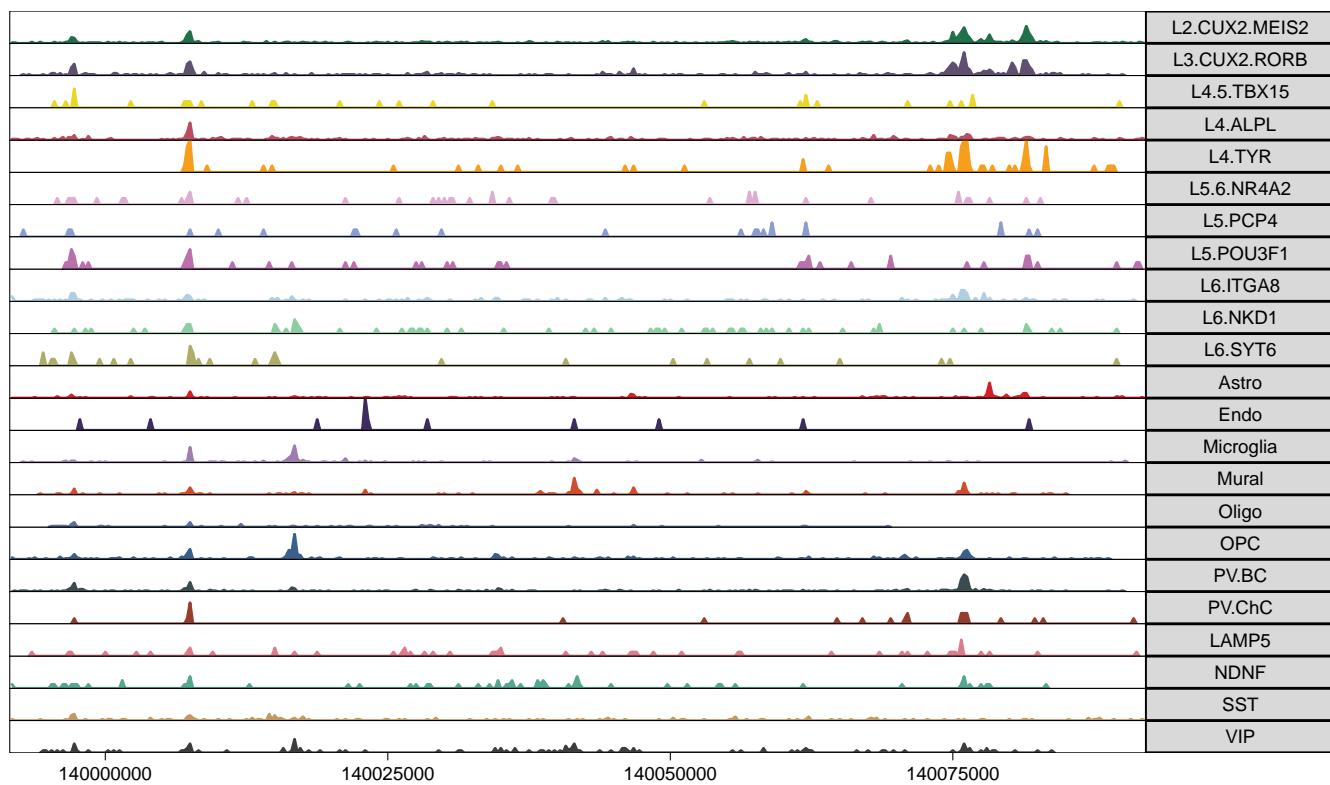
LoopTrack



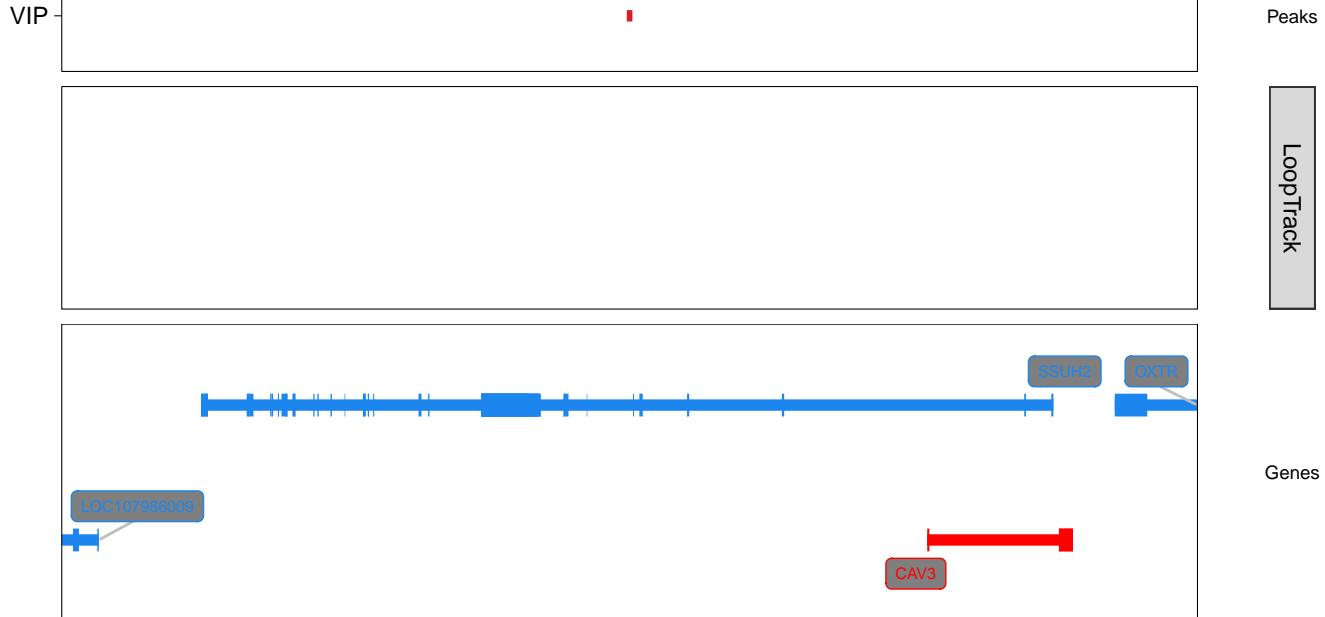
Genes



## chr2:139991544–140092045 Marker Peak Tracks for: VIP

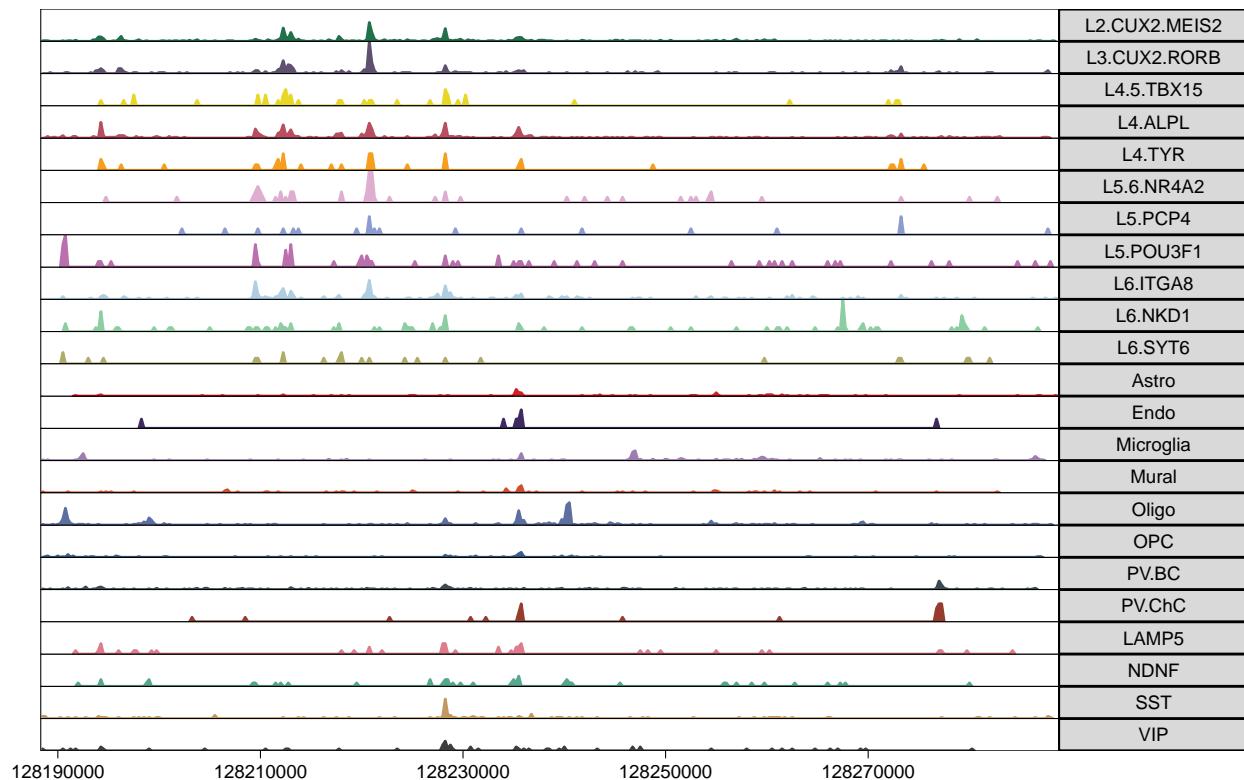
Coverage  
(Norm. ATAC Signal Range (0–1.17) by ReadsInTSS)

140000000 140025000 140050000 140075000



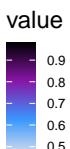
chr2:128188311–128288812 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.36) by ReadInTSS)



128190000 128210000 128230000 128250000 128270000

VIP - Peaks



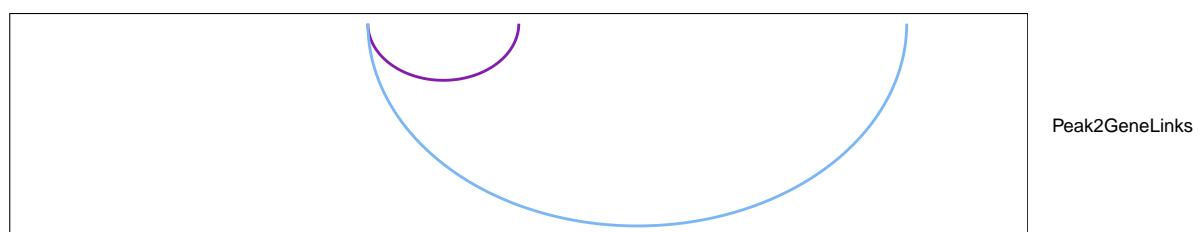
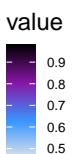
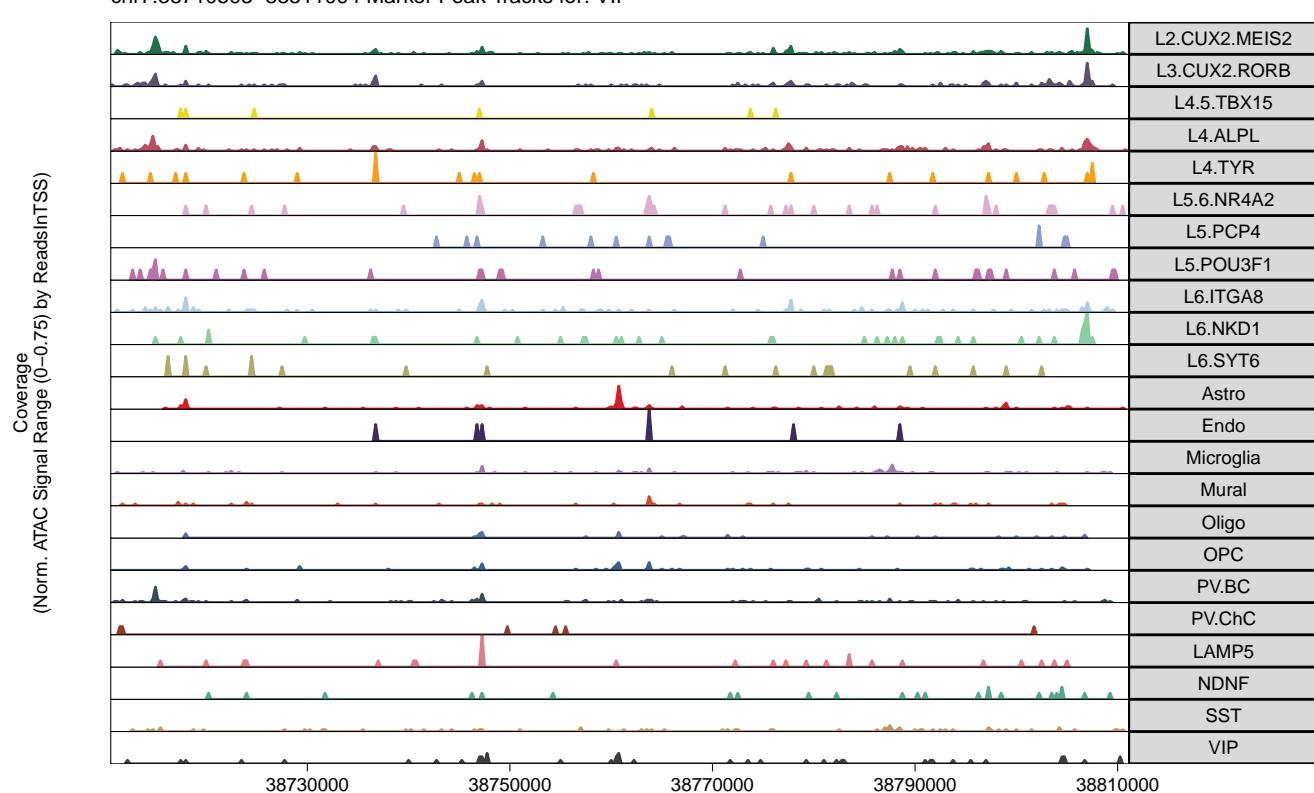
Peak2GeneLinks



Genes

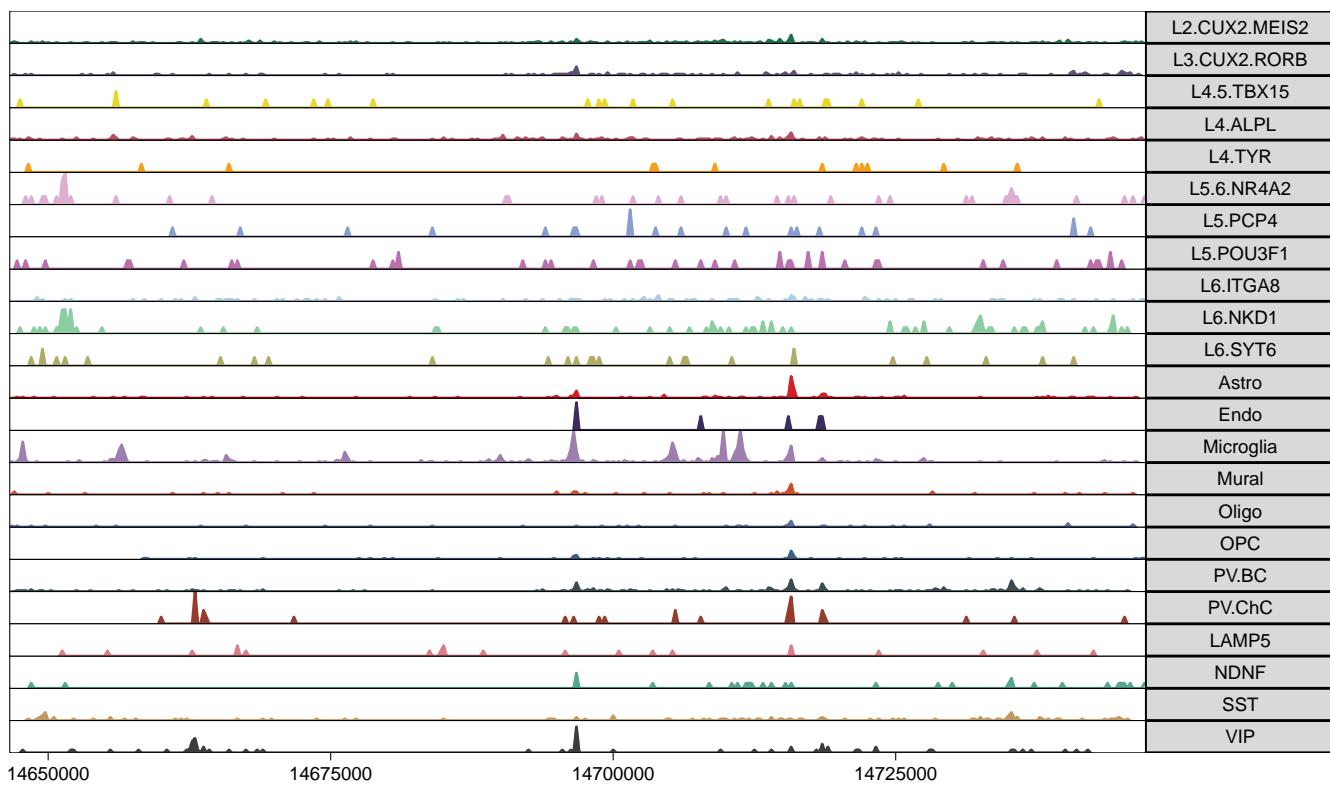
LINC00870

### chr7:38710593–38811094 Marker Peak Tracks for: VIP

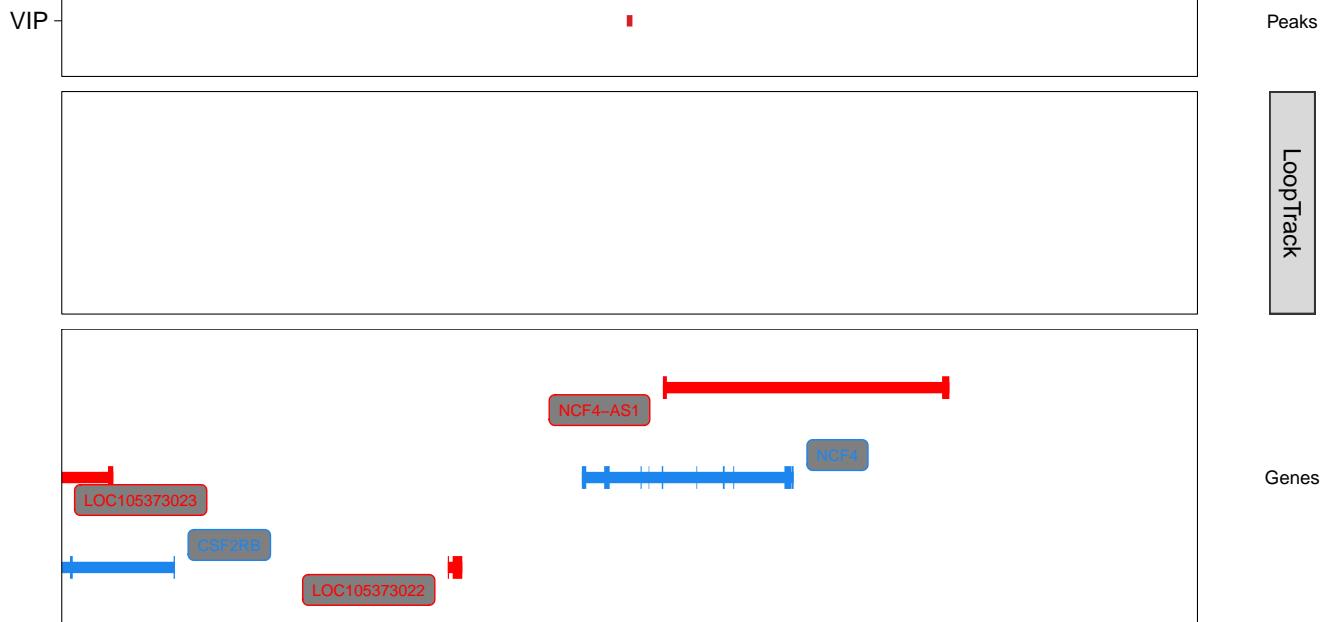


## chr10:14646600–14747101 Marker Peak Tracks for: VIP

Coverage (Norm. ATAC Signal Range (0–0.91) by ReadsInTSS)

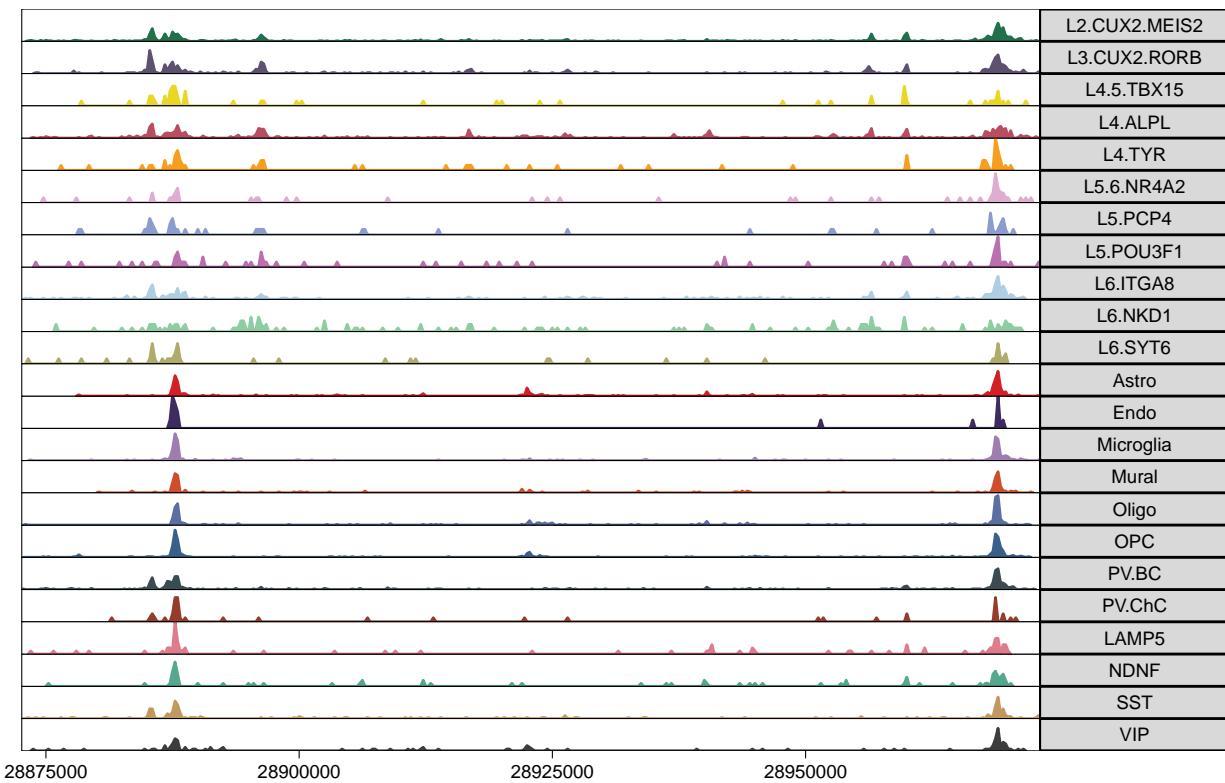


14650000 14675000 14700000 14725000



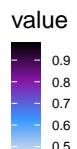
chr8:28872613–28973114 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.5) by ReadsInTSS)

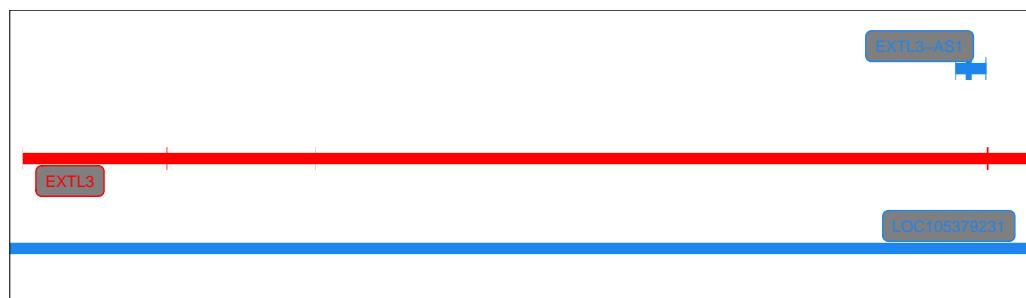
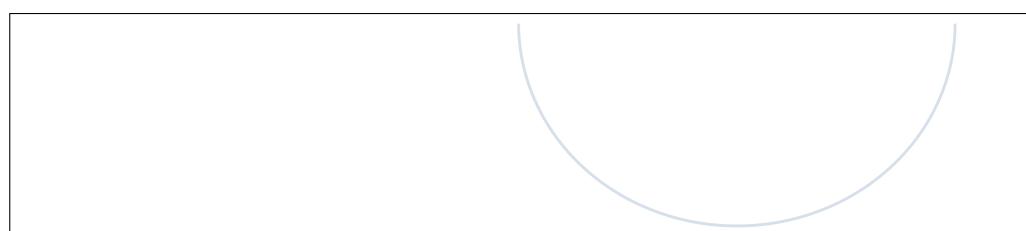


28875000 28900000 28925000 28950000

VIP - Peaks

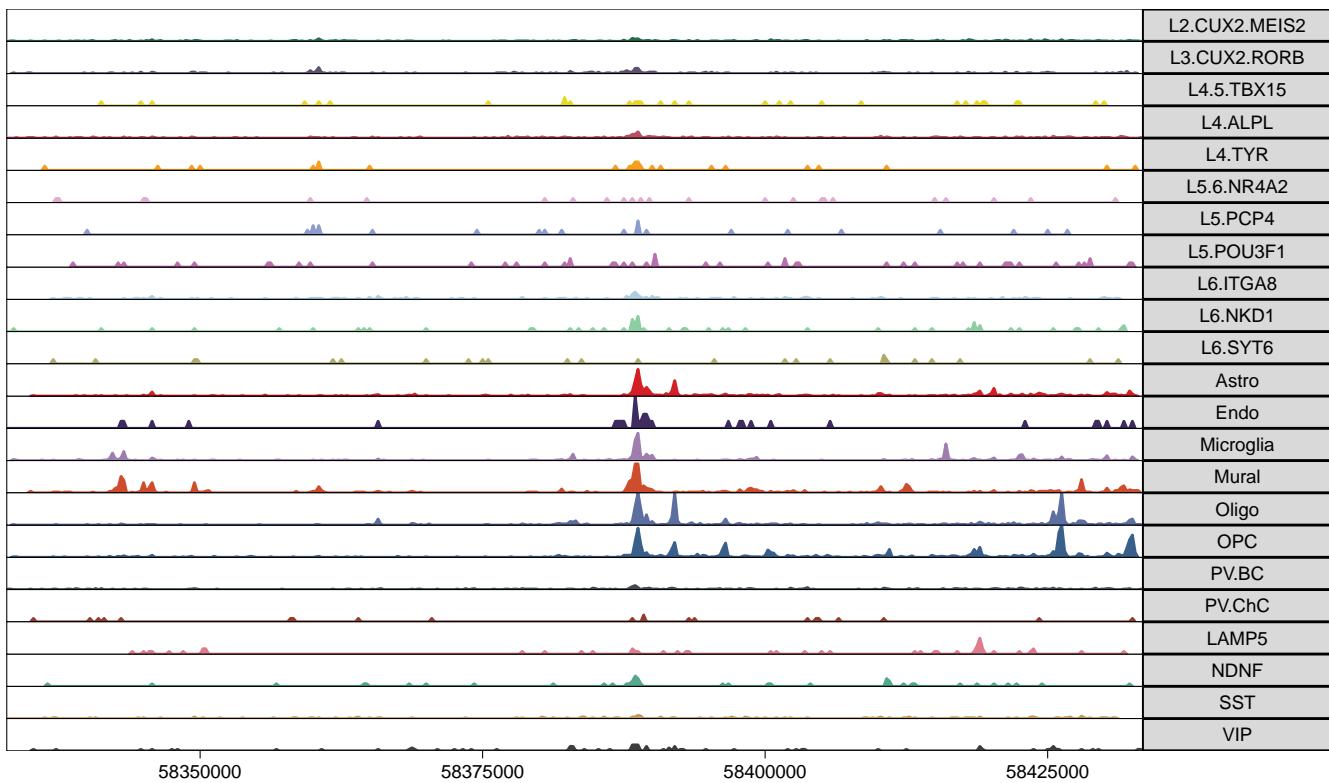


Peak2GeneLinks



Genes

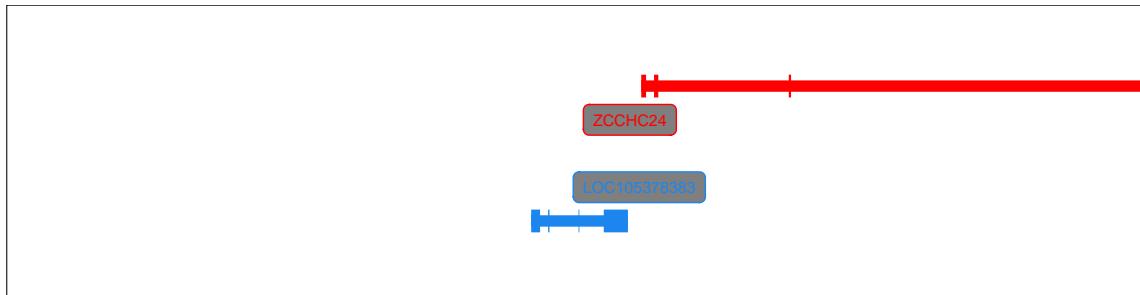
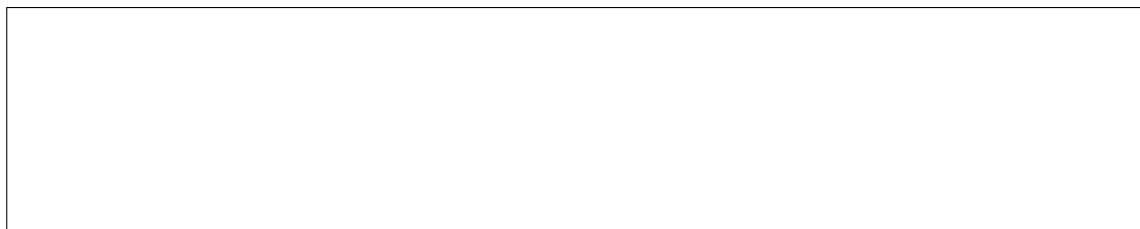
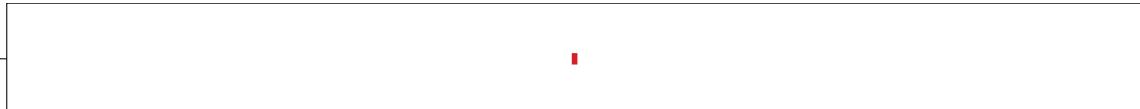
## chr9:58332888–58433389 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.78) by ReadsInTSS)

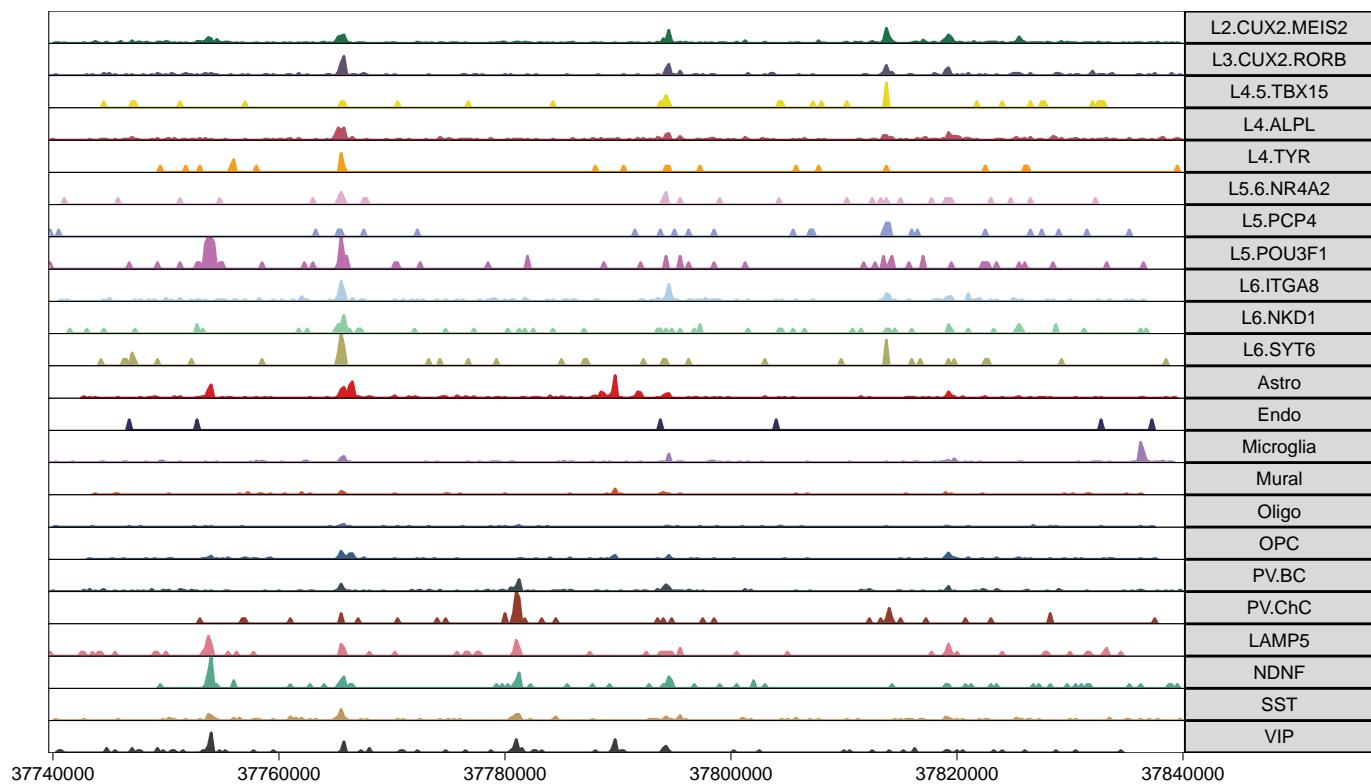
VIP

Peaks

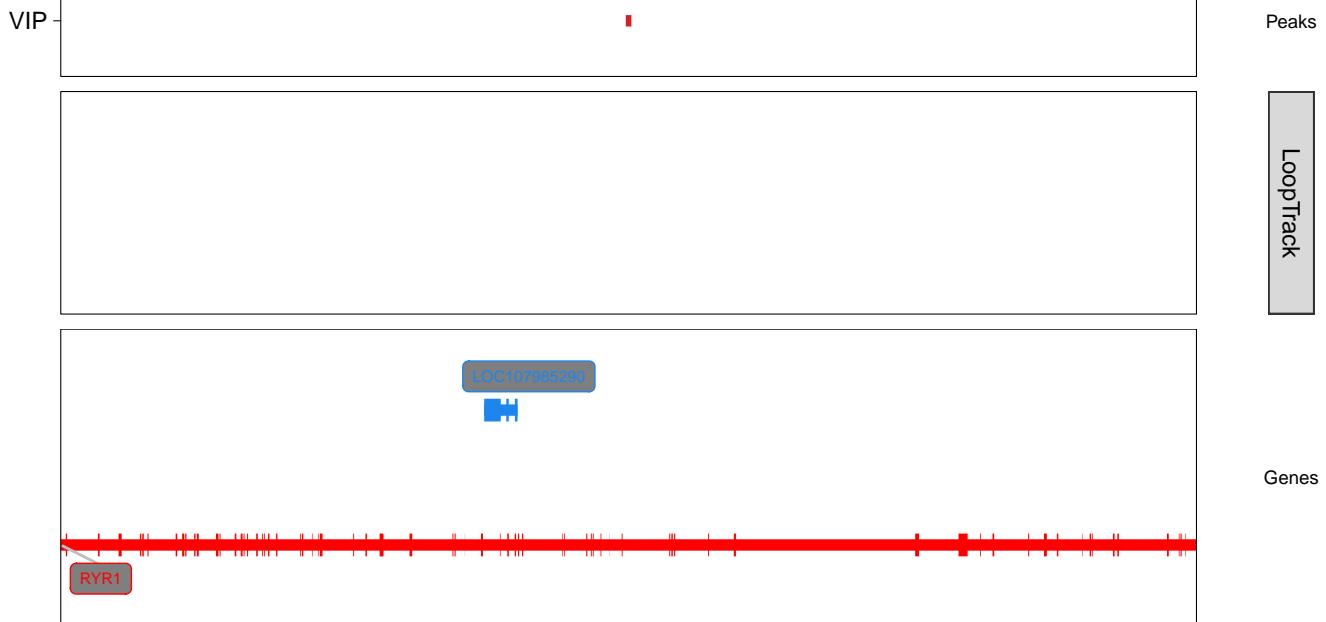
LoopTrack



## chr19:37739628–37840129 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.19) by ReadsInTSS)

37740000 37760000 37780000 37800000 37820000 37840000

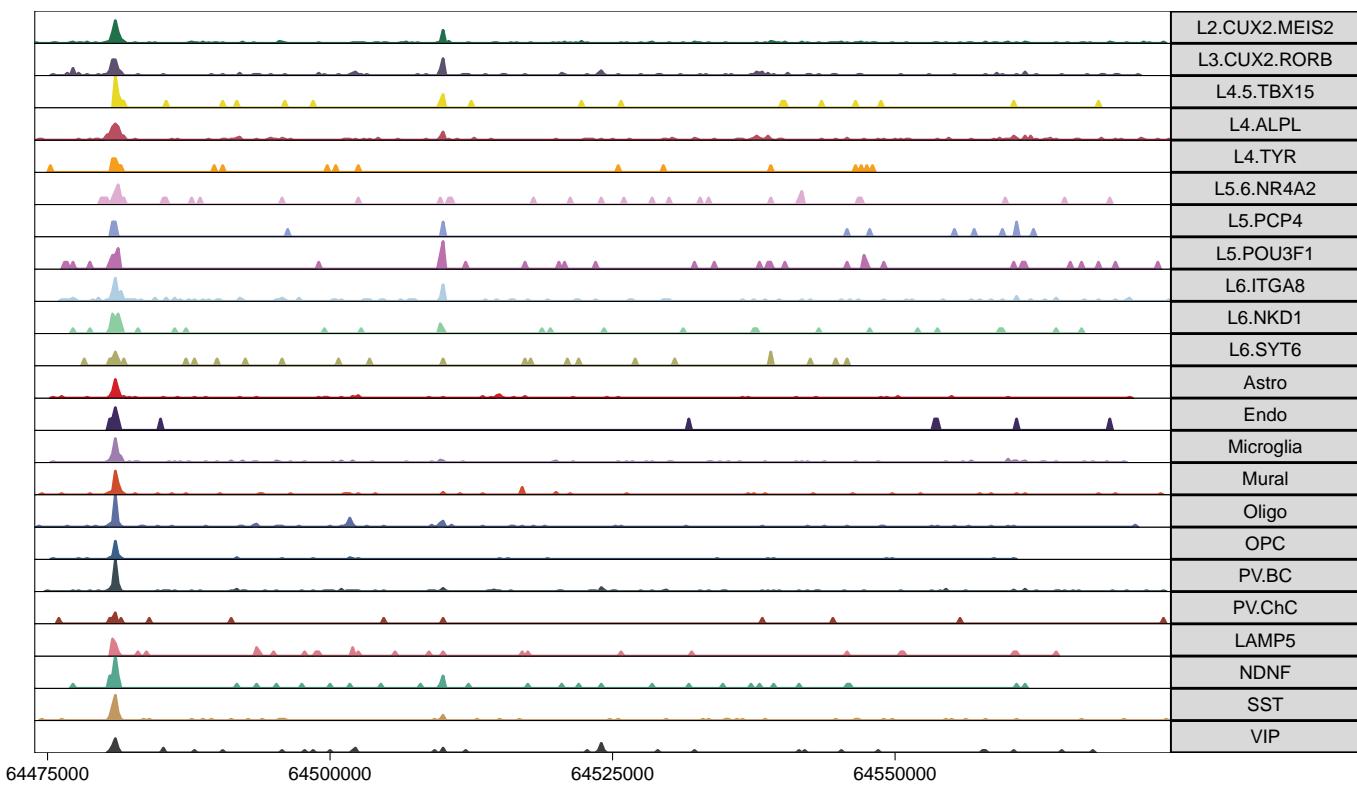


Genes

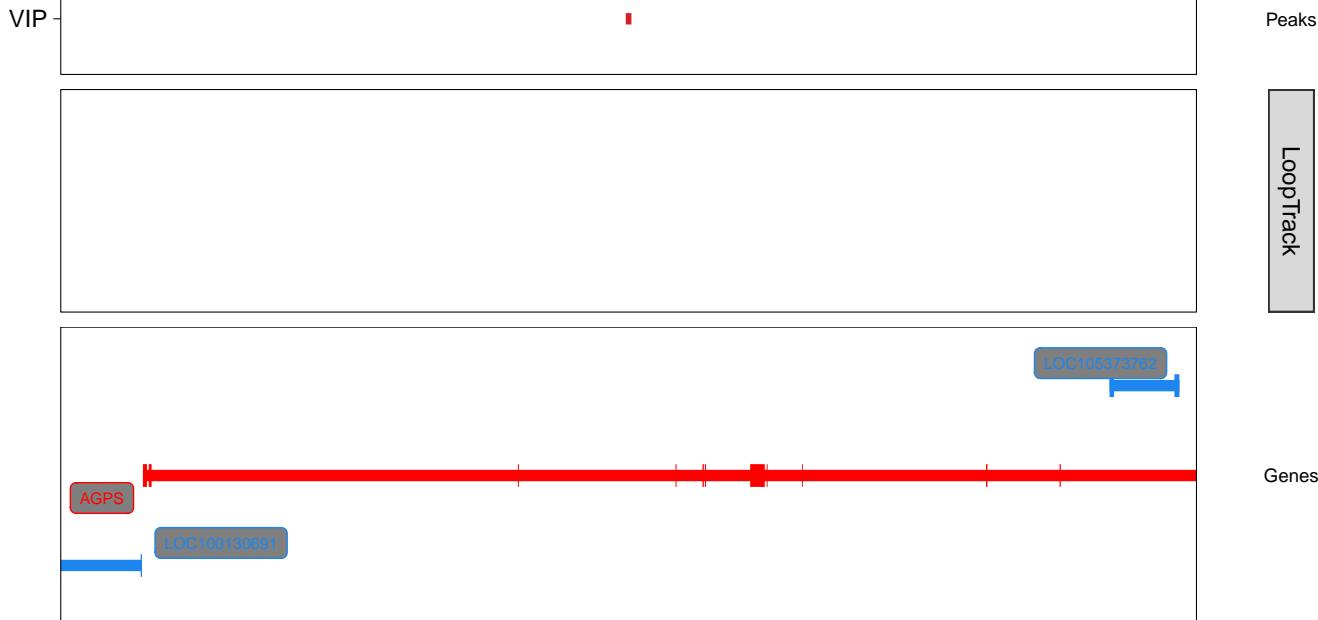
Peaks

LoopTrack

## chr12:64473867–64574368 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.1) by ReadsInTSS)

64475000 64500000 64525000 64550000



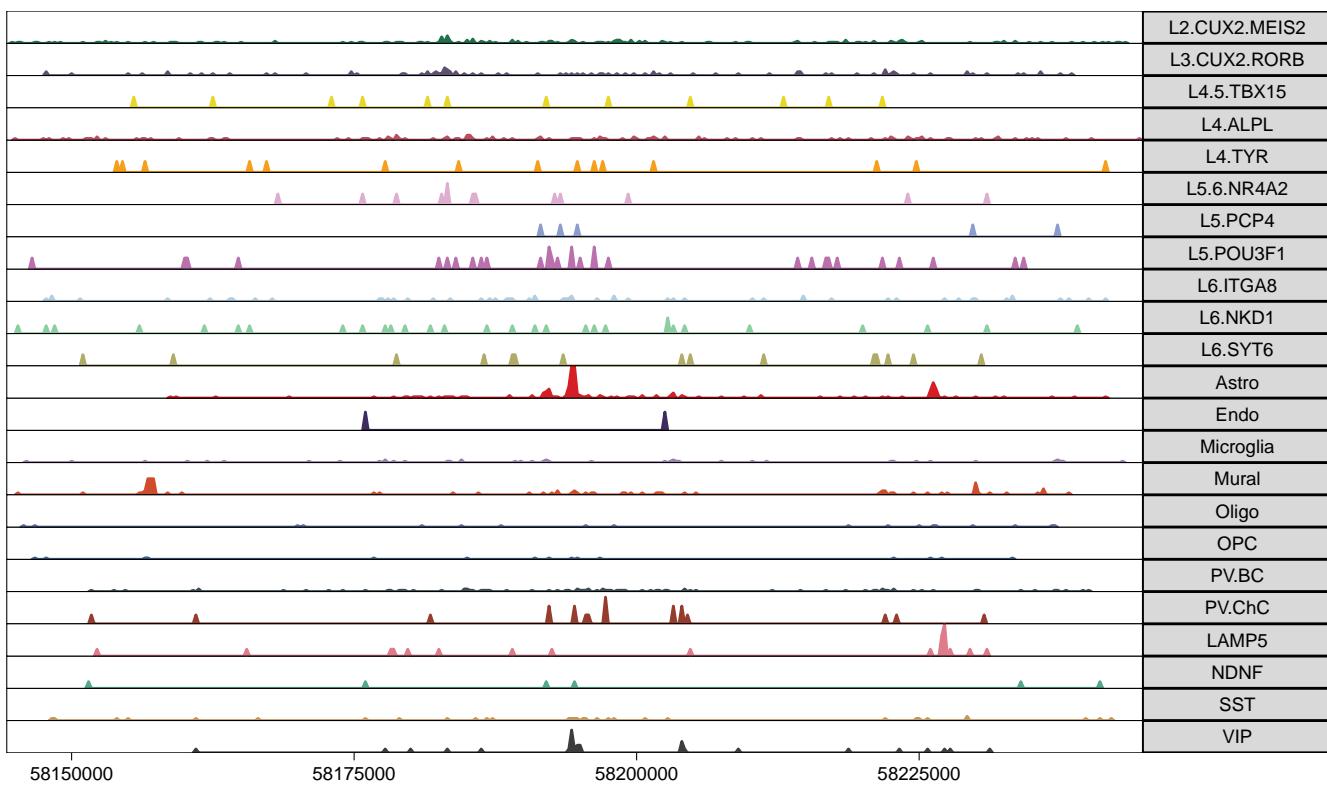
Genes

LoopTrack

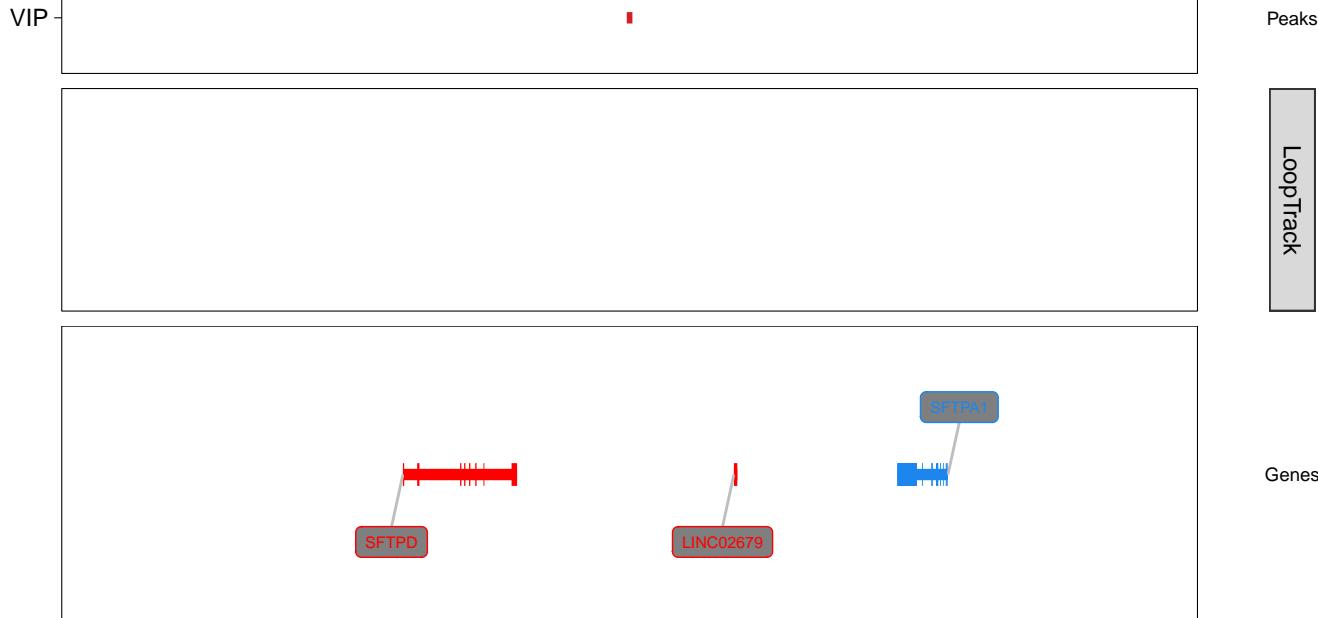
Peaks

chr9:58144260–58244761 Marker Peak Tracks for: VIP

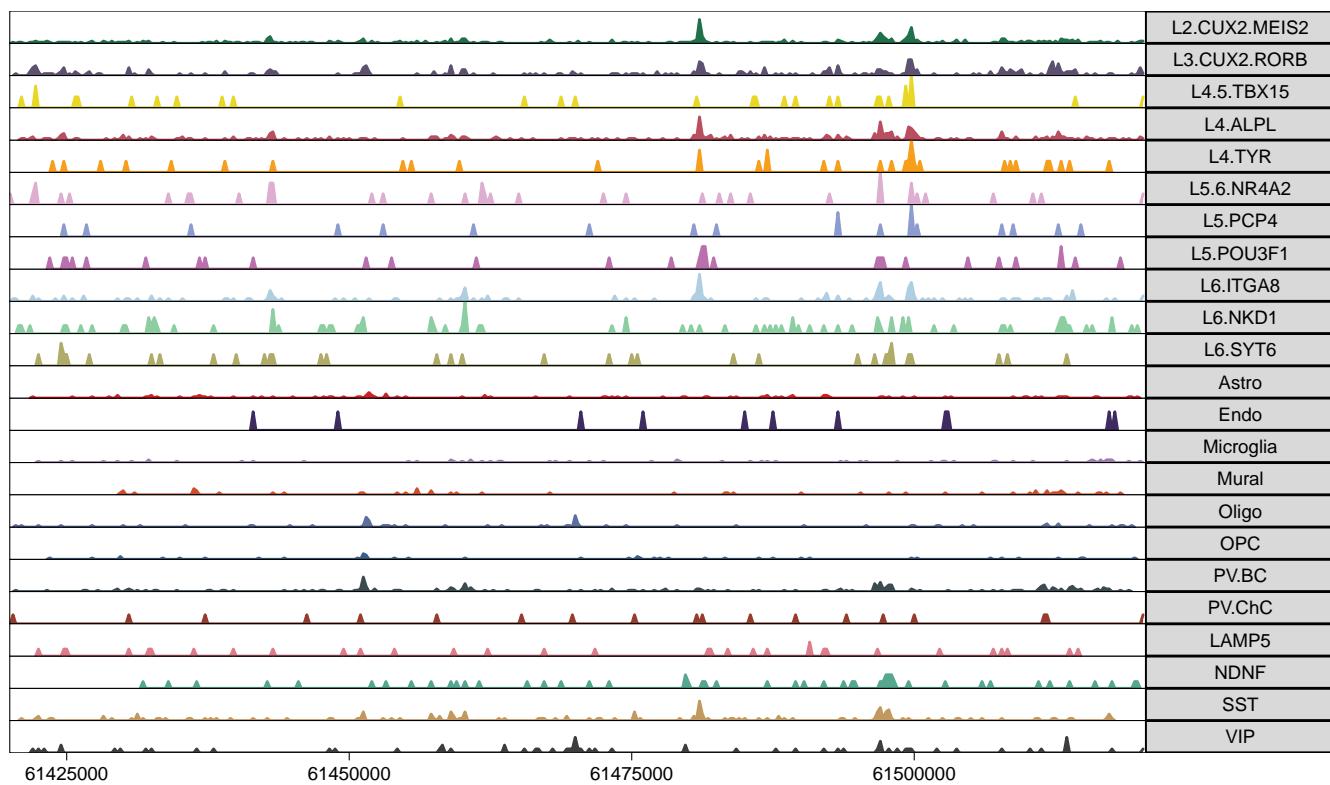
Coverage  
(Norm. ATAC Signal Range (0–0.69) by ReadInTSS)



58150000            58175000            58200000            58225000



## chr20:61419960–61520461 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–0.68) by ReadsInTSS)

VIP

Peaks

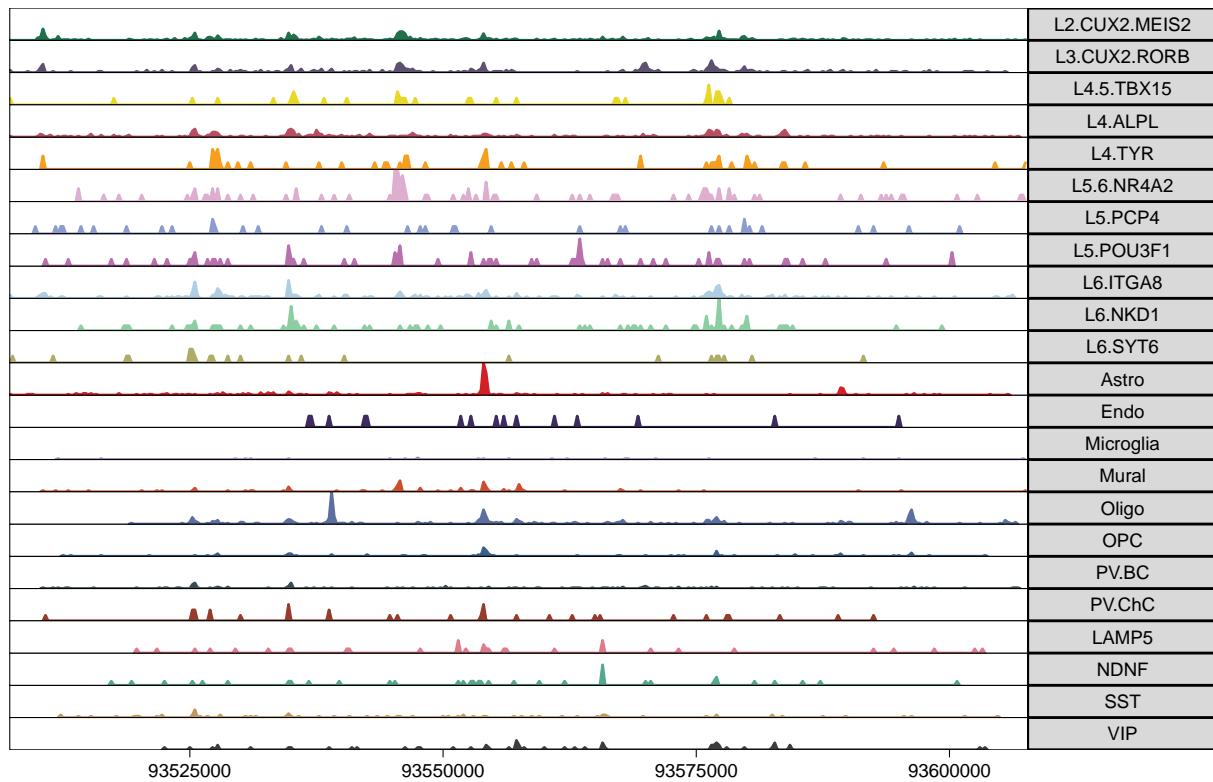
LoopTrack

GLG1

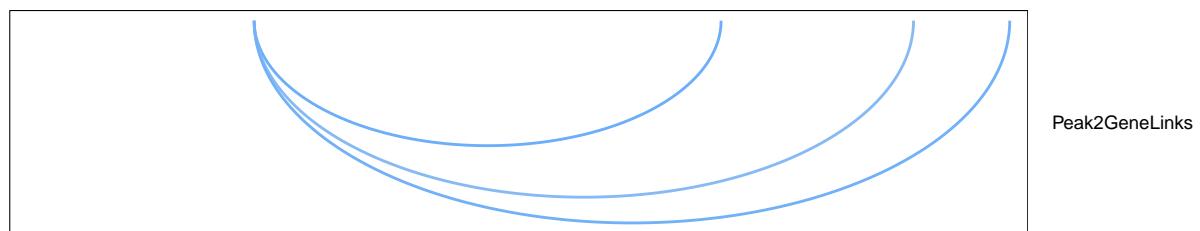
Genes

chr5:93507221–93607722 Marker Peak Tracks for: VIP

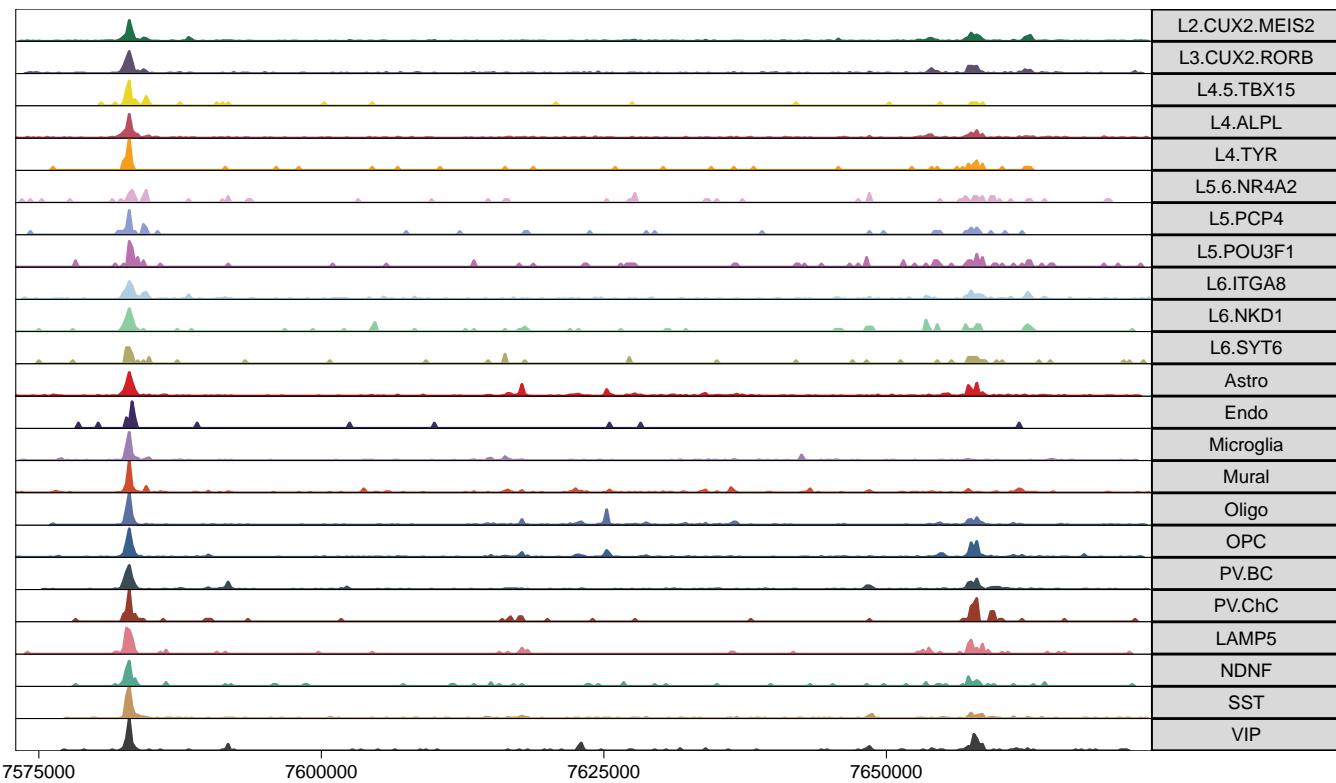
Coverage  
(Norm. ATAC Signal Range (0-1.13) by ReadsInTSS)



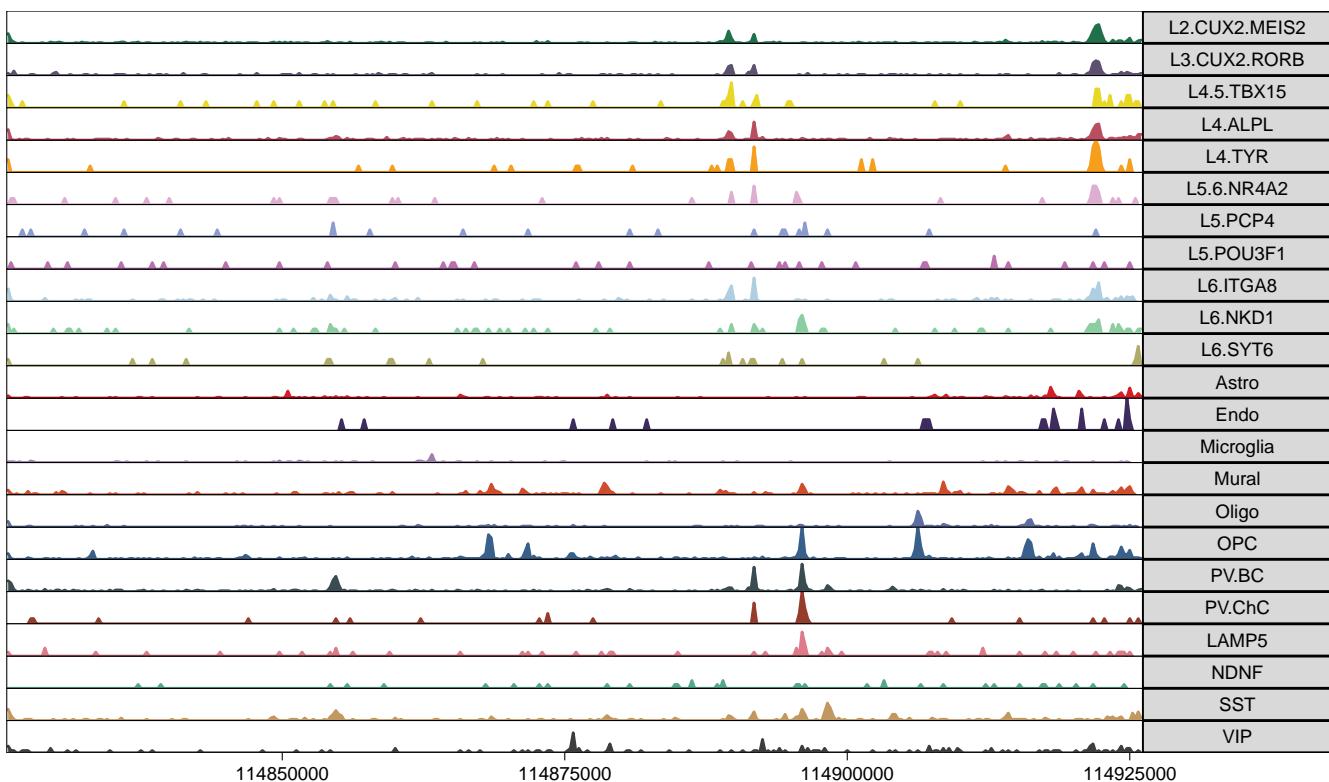
93525000      93550000      93575000      93600000



## chr14:7572955–7673456 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–2.37) by ReadsInTSS)

## chr9:114825621–114926122 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.0) by ReadsInTSS)

VIP

Peaks

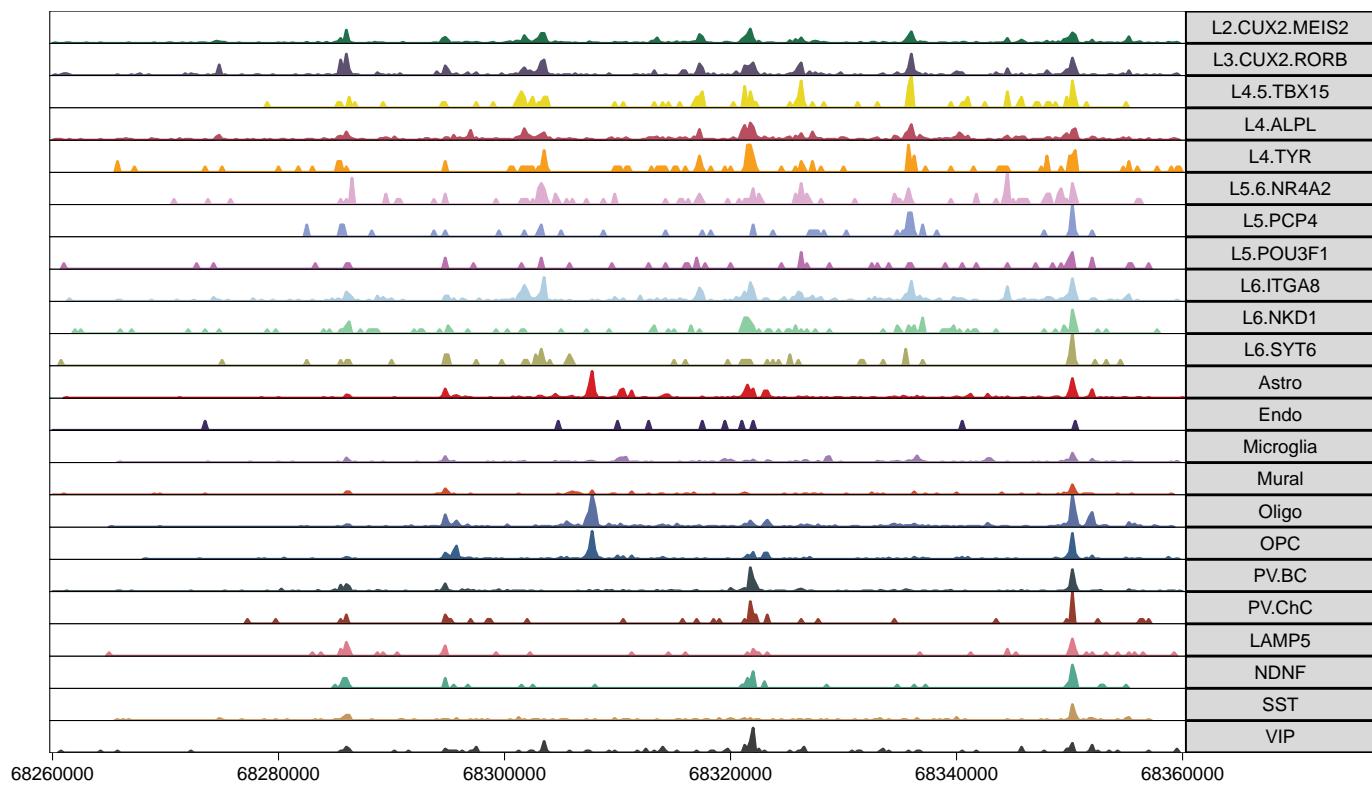
LoopTrack

LOC105378494

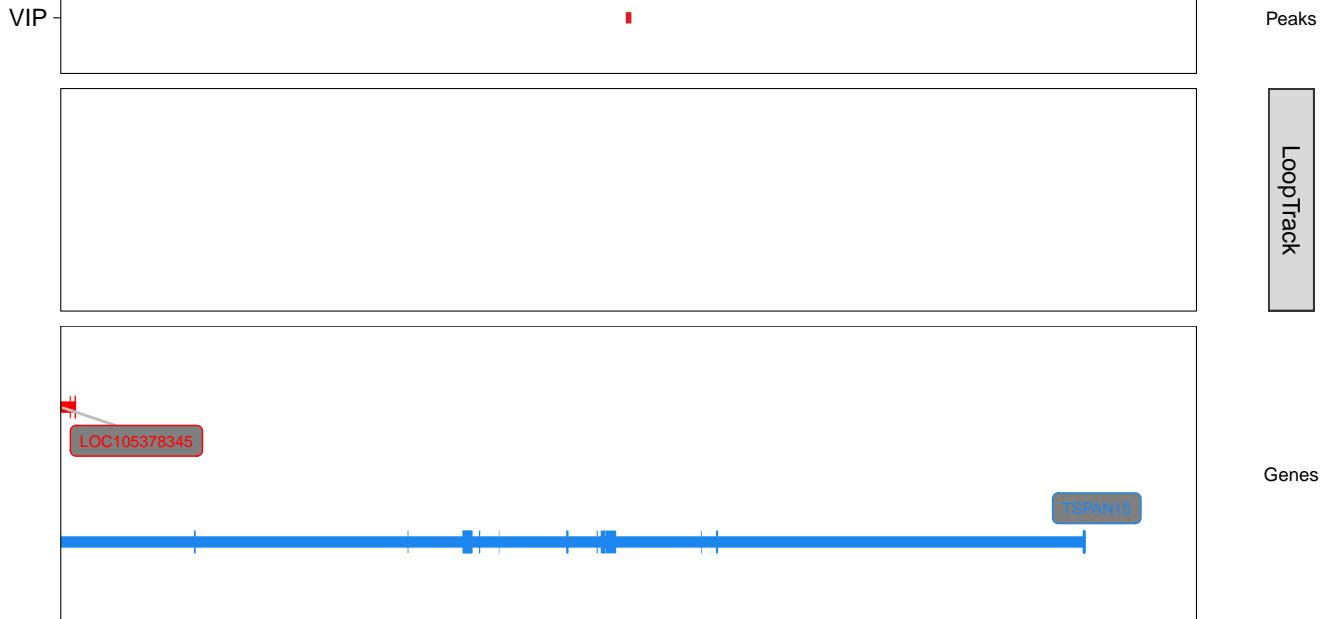
AFAP1L2

Genes

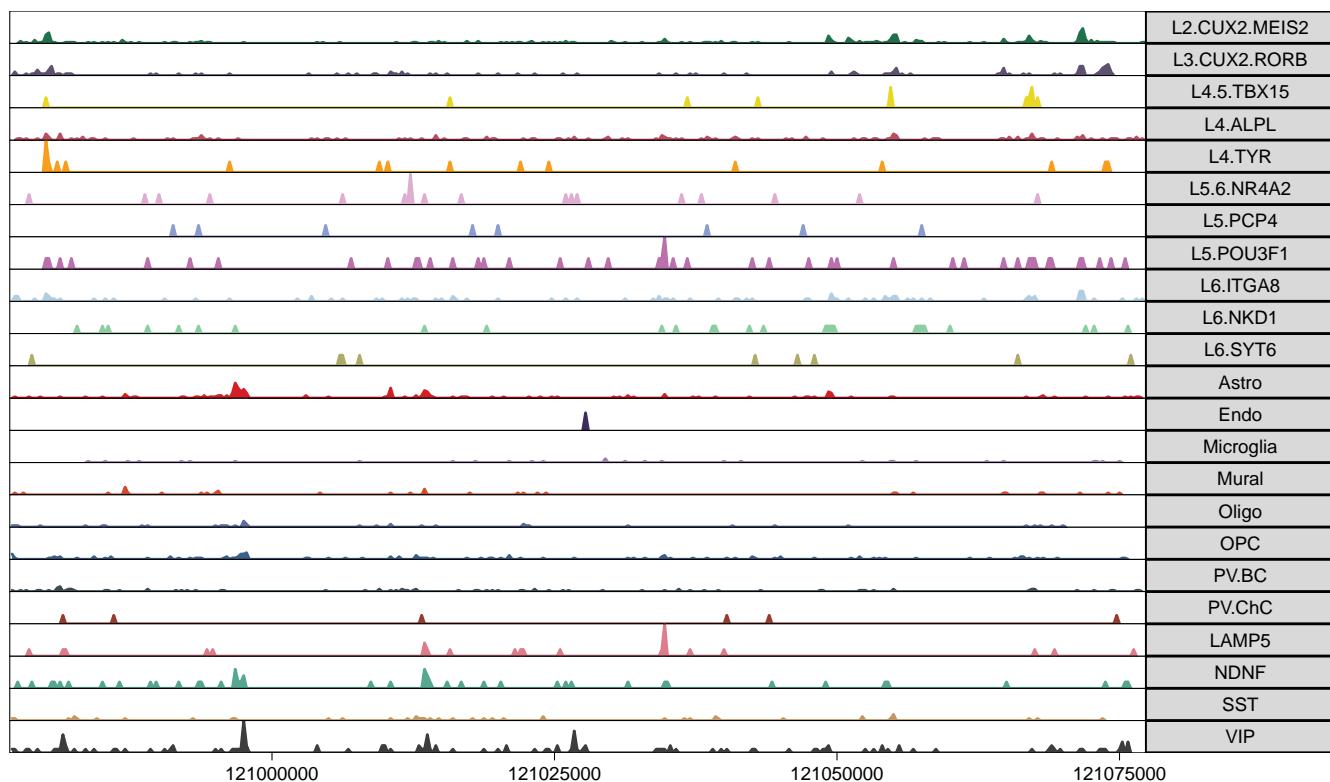
## chr9:68259754–68360255 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.38) by ReadsInTSS)

68260000 68280000 68300000 68320000 68340000 68360000



## chr9:120976794–121077295 Marker Peak Tracks for: VIP

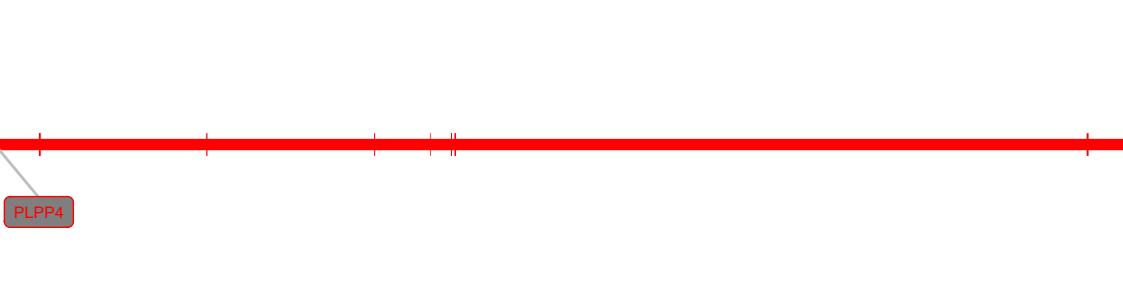
Coverage  
(Norm. ATAC Signal Range (0–0.72) by ReadsInTSS)

VIP

Peaks

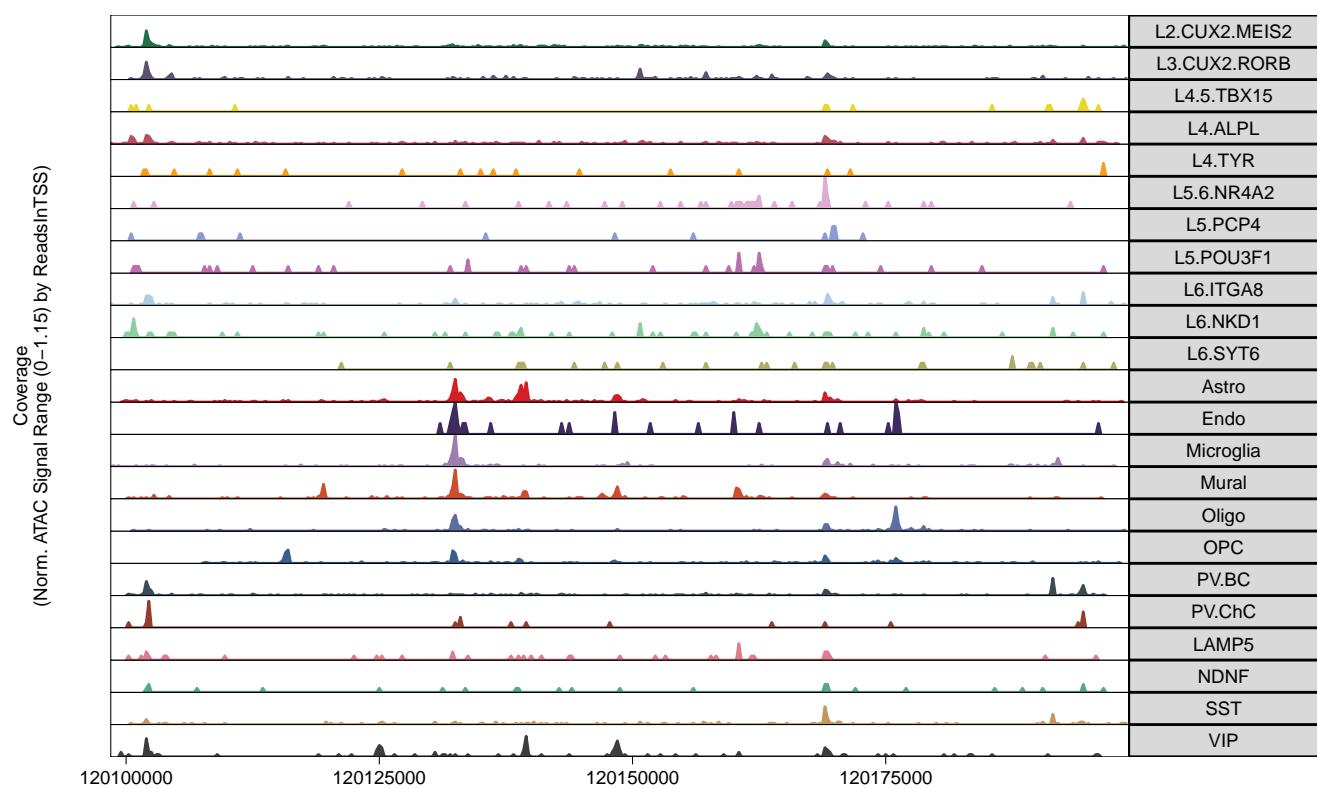
LoopTrack

Genes



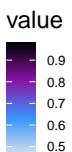
PLPP4

chr9:120098486–120198987 Marker Peak Tracks for: VIP

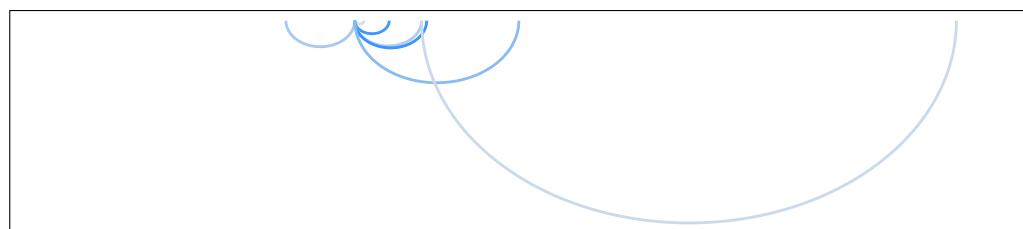


120100000 120125000 120150000 120175000

VIP - Peaks

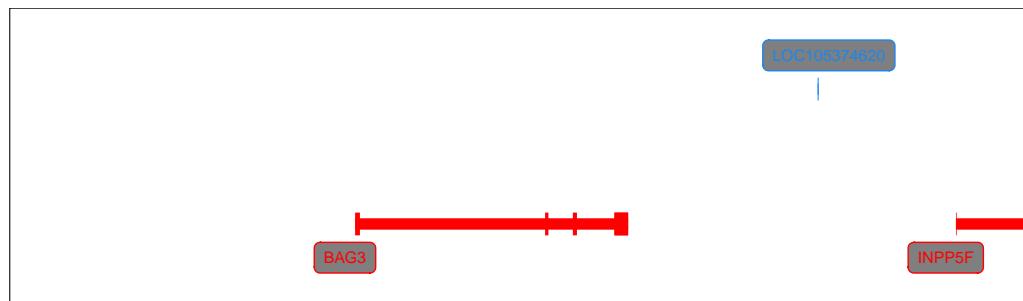


Peak2GeneLinks



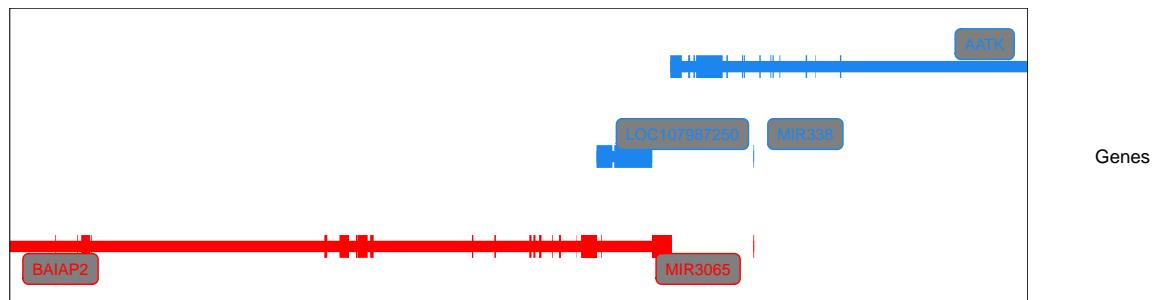
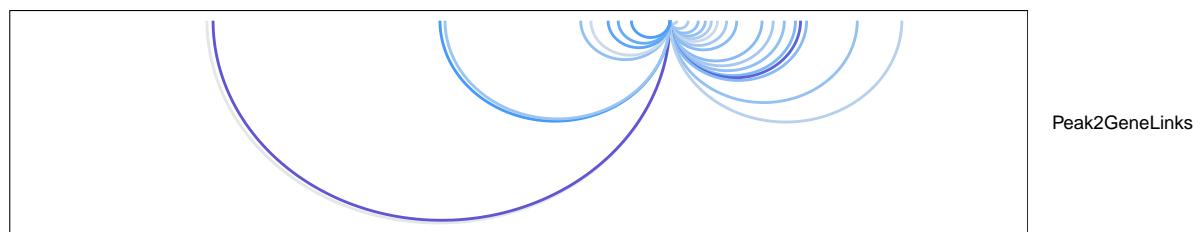
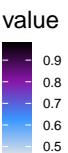
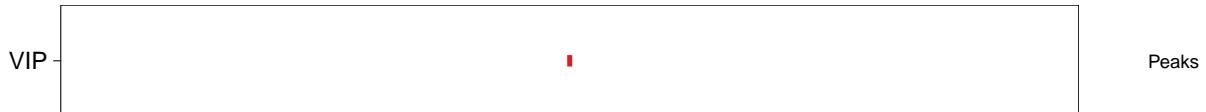
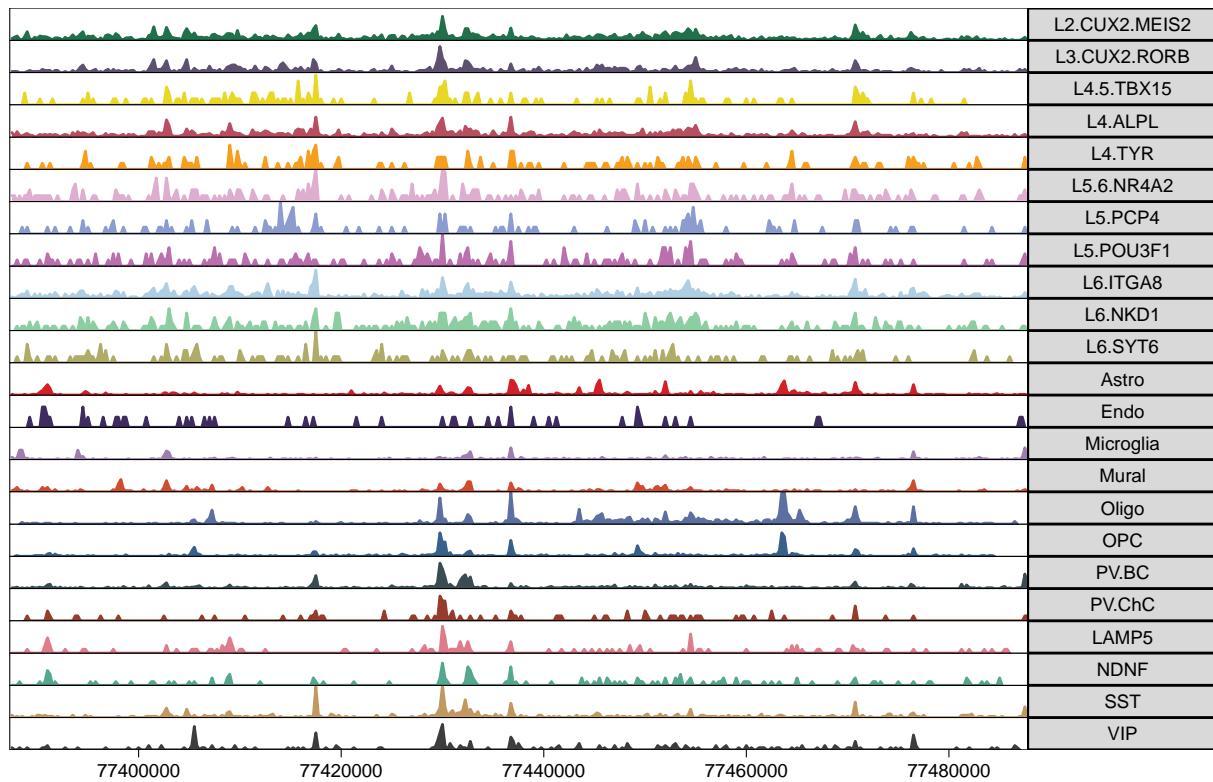
LOC105374620

Genes

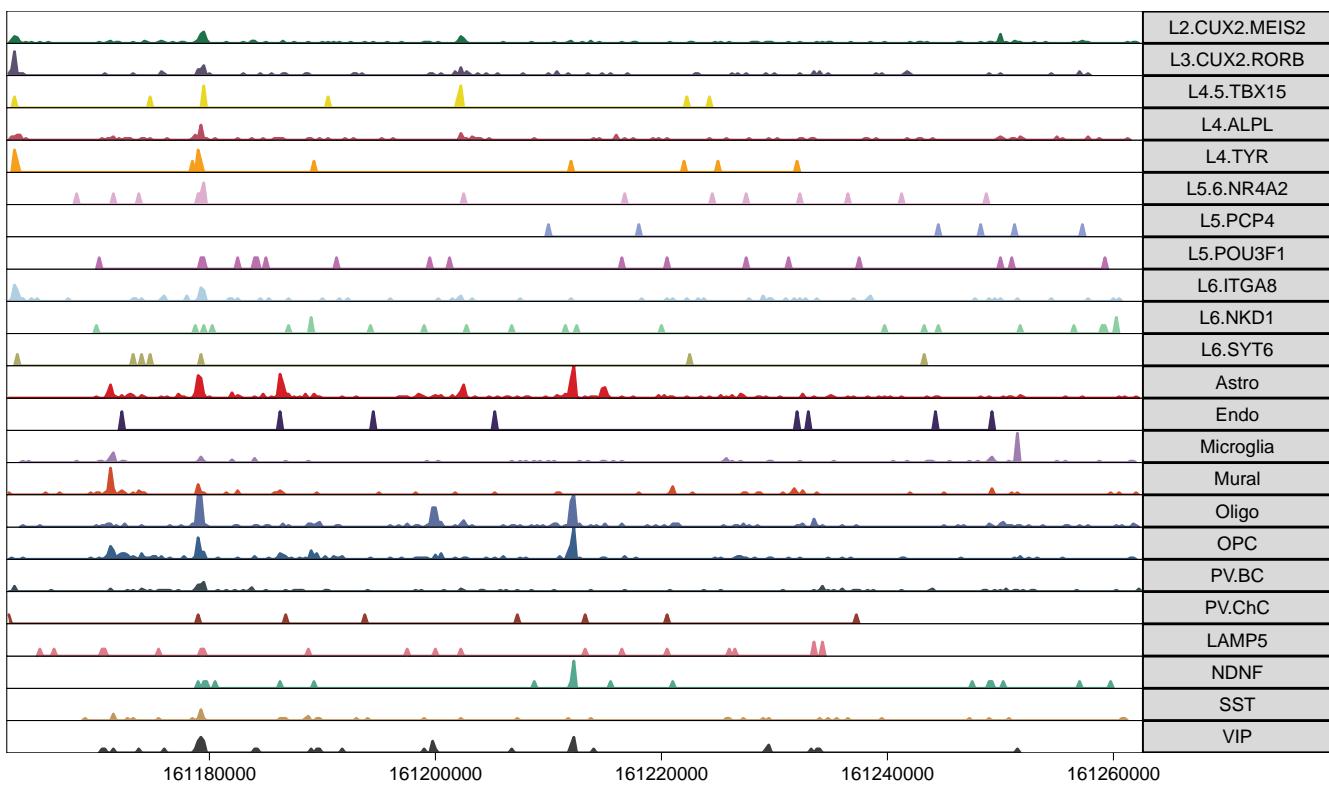


# chr16:77387277–77487778 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.24) by ReadsInTSS)

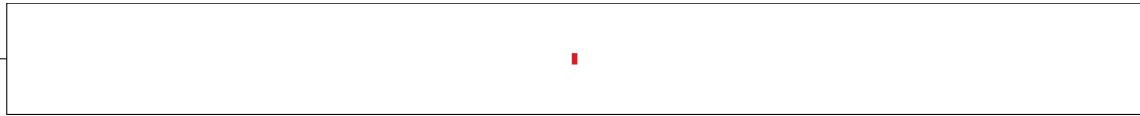


## chr2:161162065–161262566 Marker Peak Tracks for: VIP

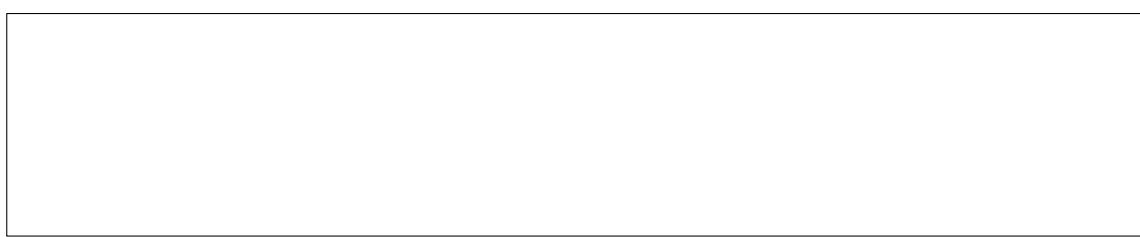
Coverage  
(Norm. ATAC Signal Range (0–0.67) by ReadsInTSS)

VIP

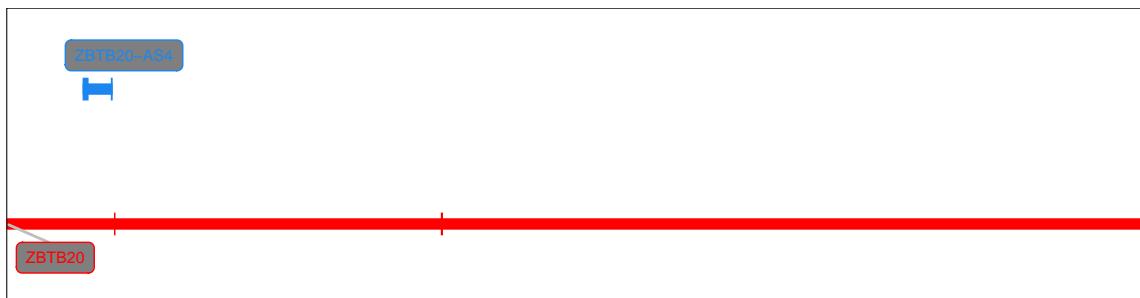
Peaks



LoopTrack



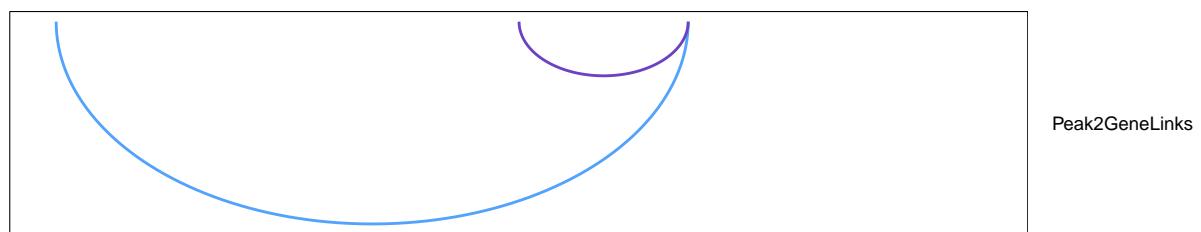
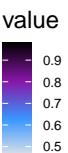
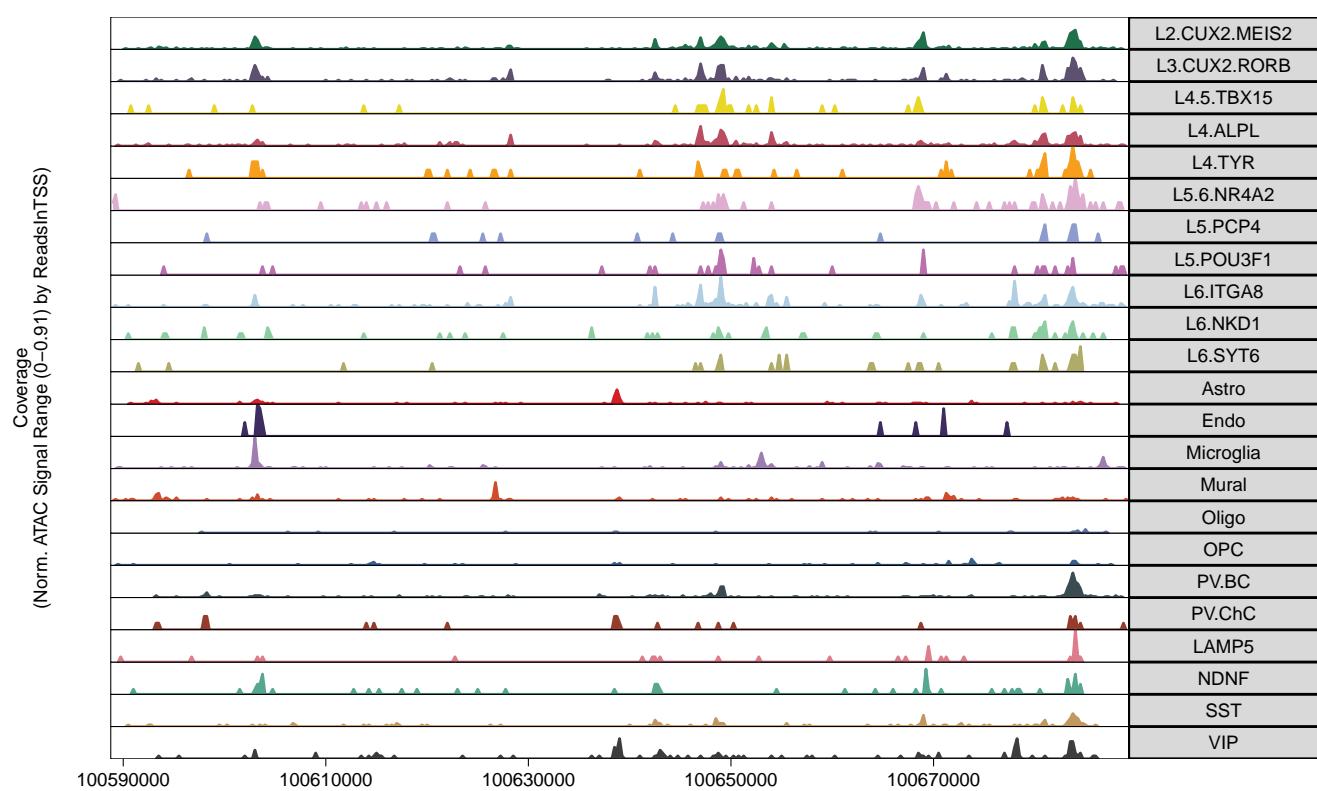
Genes



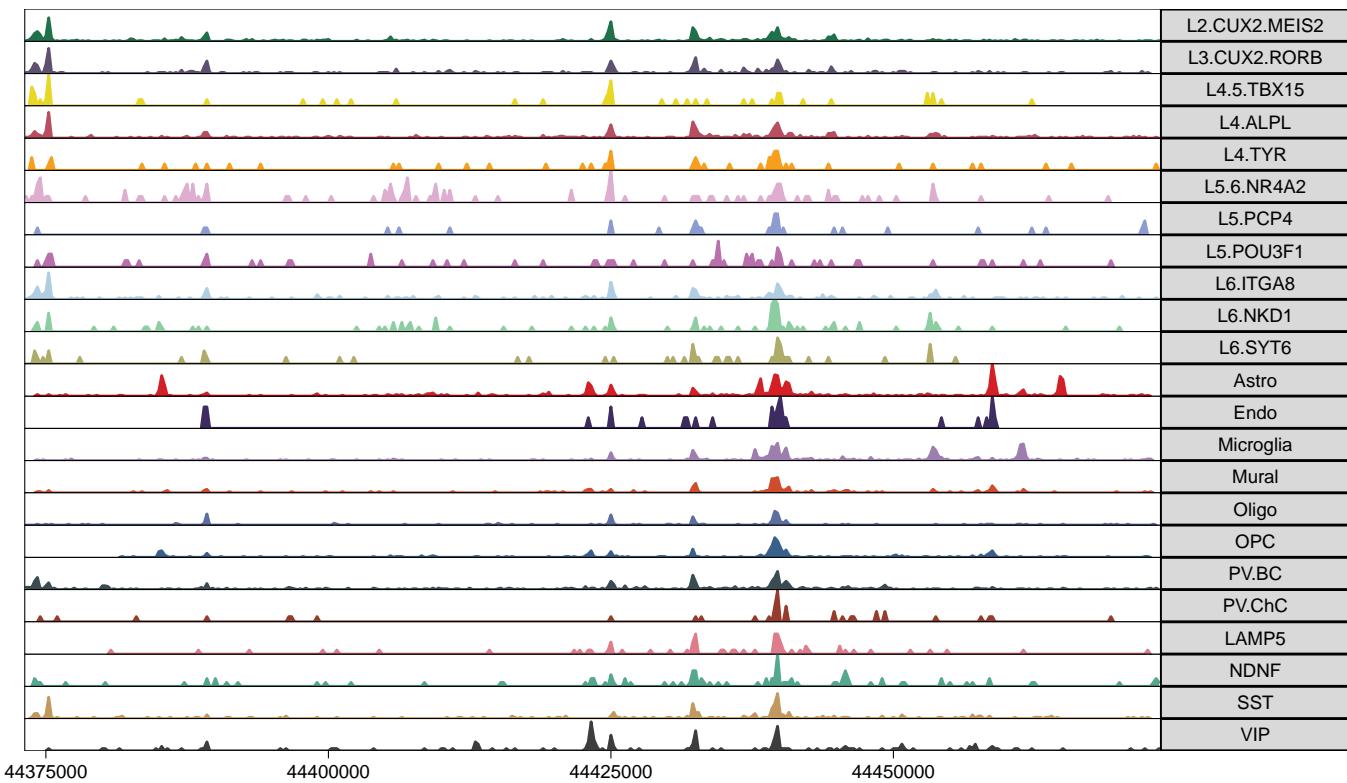
ZBTB20

ZBTB20-AS4

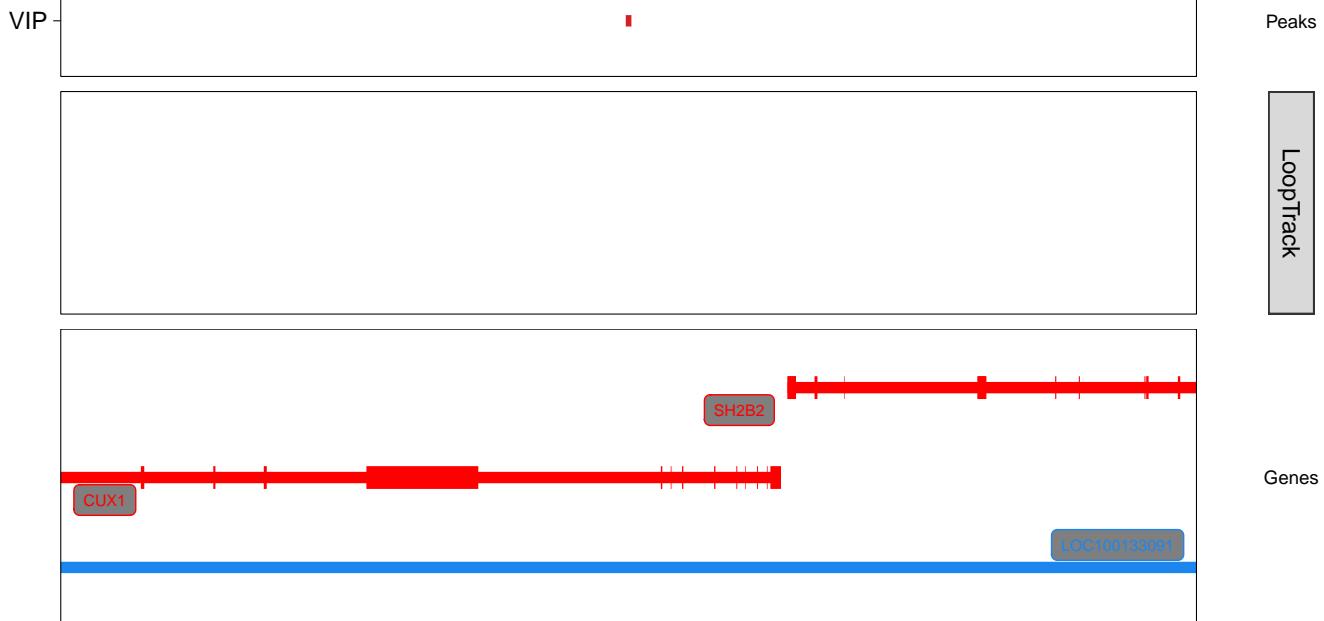
chr8:100588767–100689268 Marker Peak Tracks for: VIP



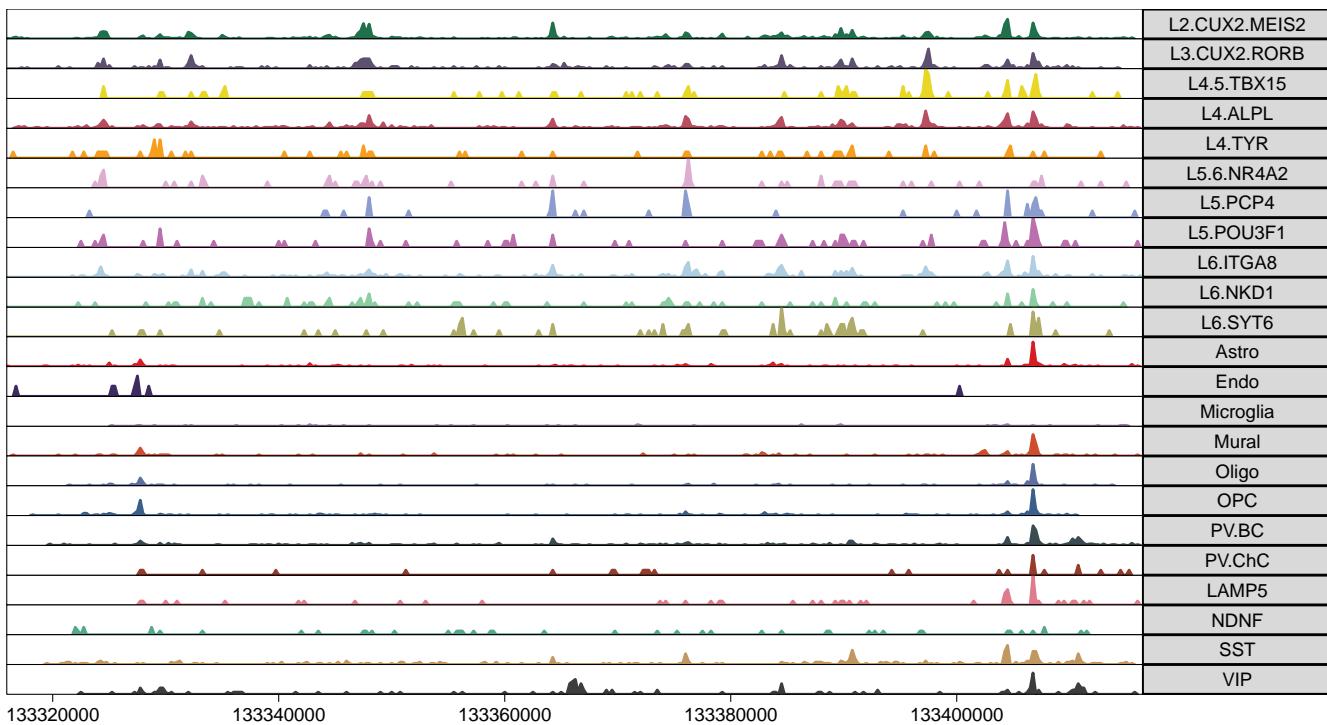
## chr3:44373129–44473630 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.18) by ReadsInTSS)

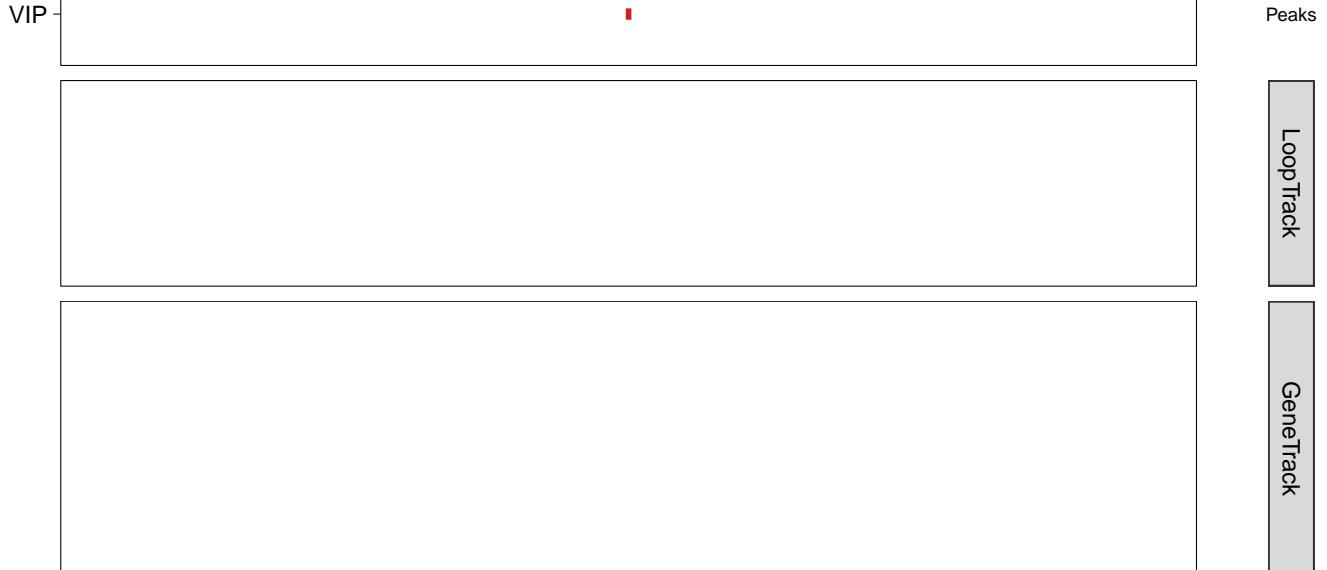
44375000 44400000 44425000 44450000



## chr9:133315933–133416434 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.14) by ReadstTSS)

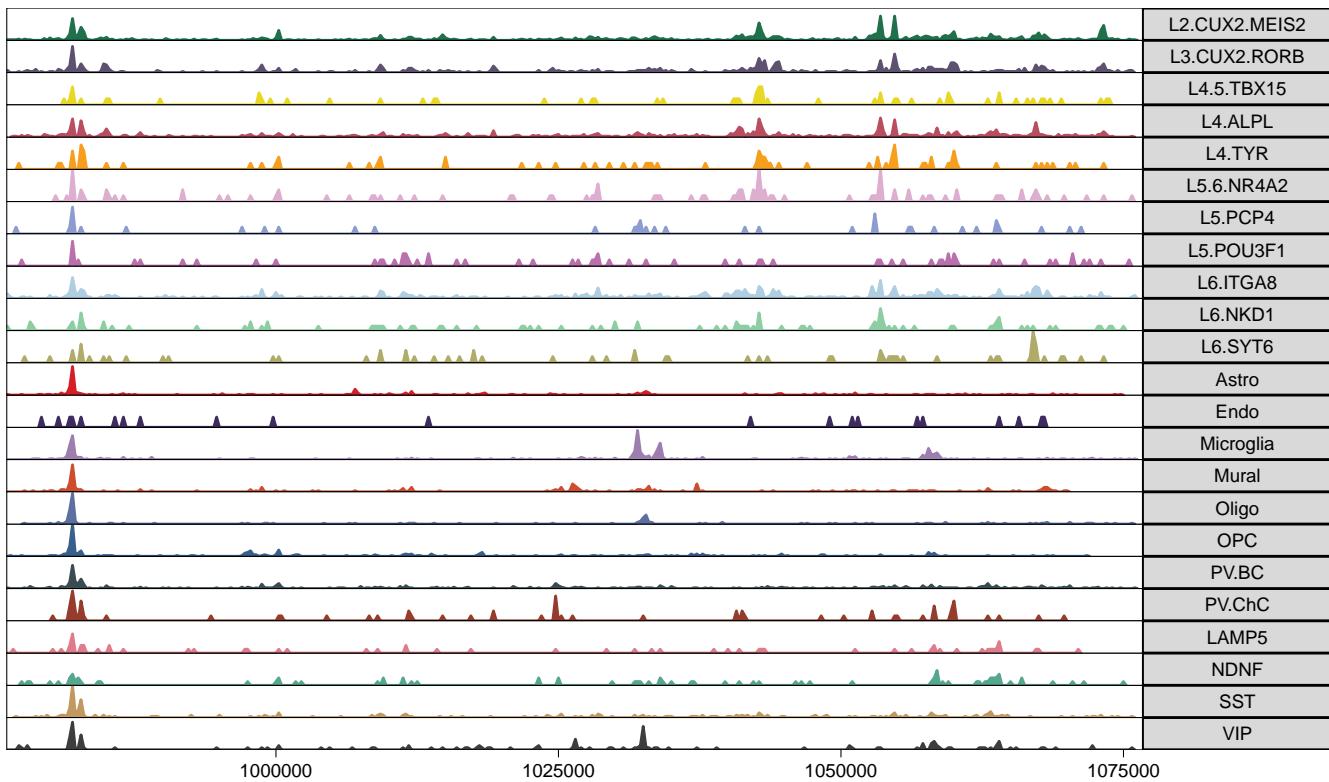
133320000 133340000 133360000 133380000 133400000



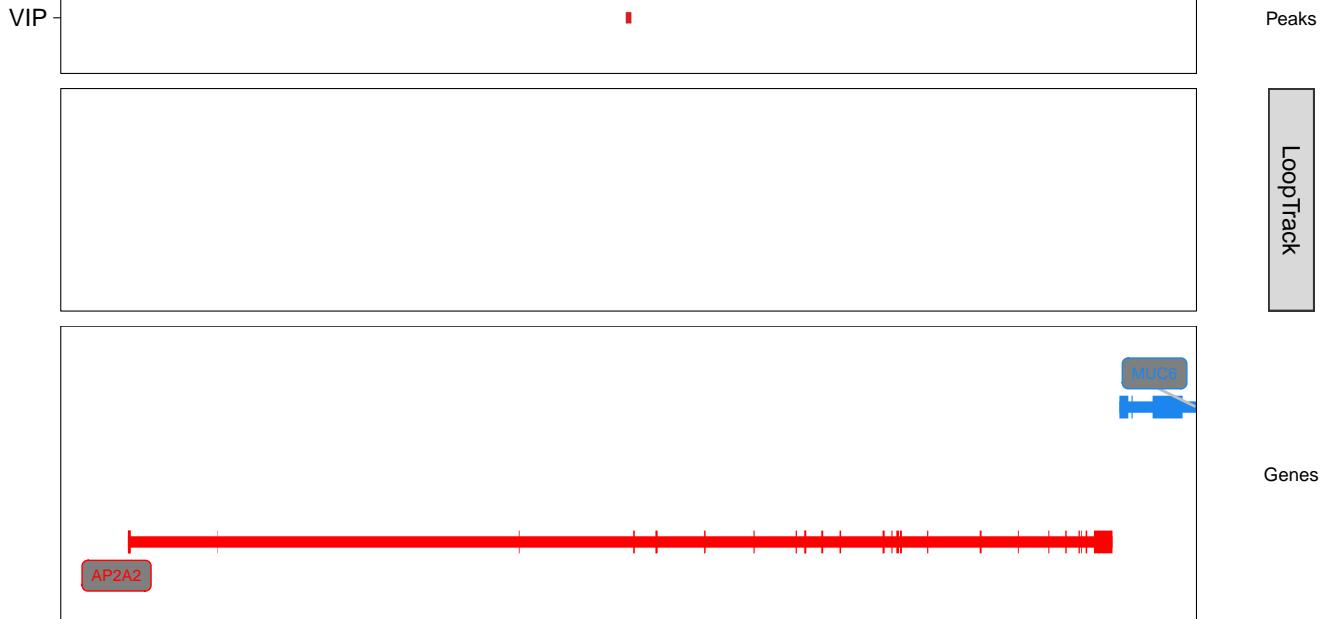
strand ● •

chr14:976178–1076679 Marker Peak Tracks for: VIP

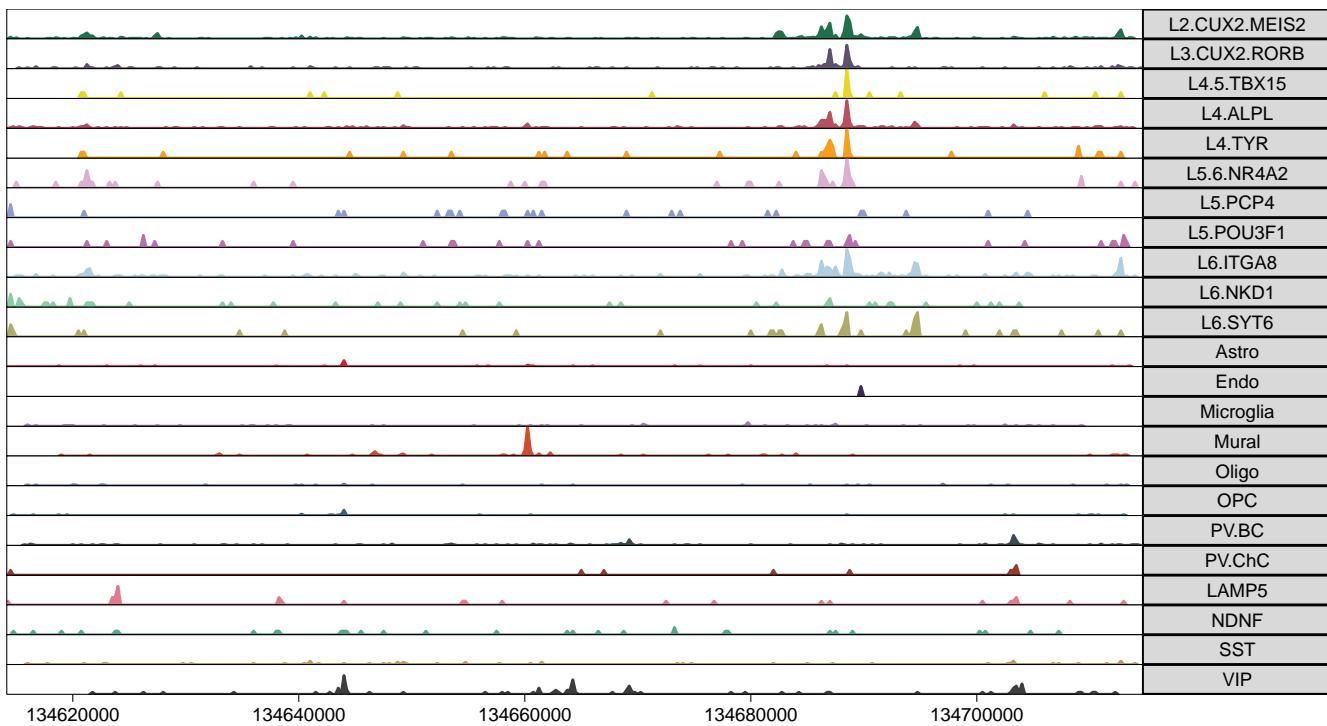
Coverage  
(Norm. ATAC Signal Range (0–1.24) by ReadsInTSS)



1000000 1025000 1050000 1075000



## chr8:134614157–134714658 Marker Peak Tracks for: VIP

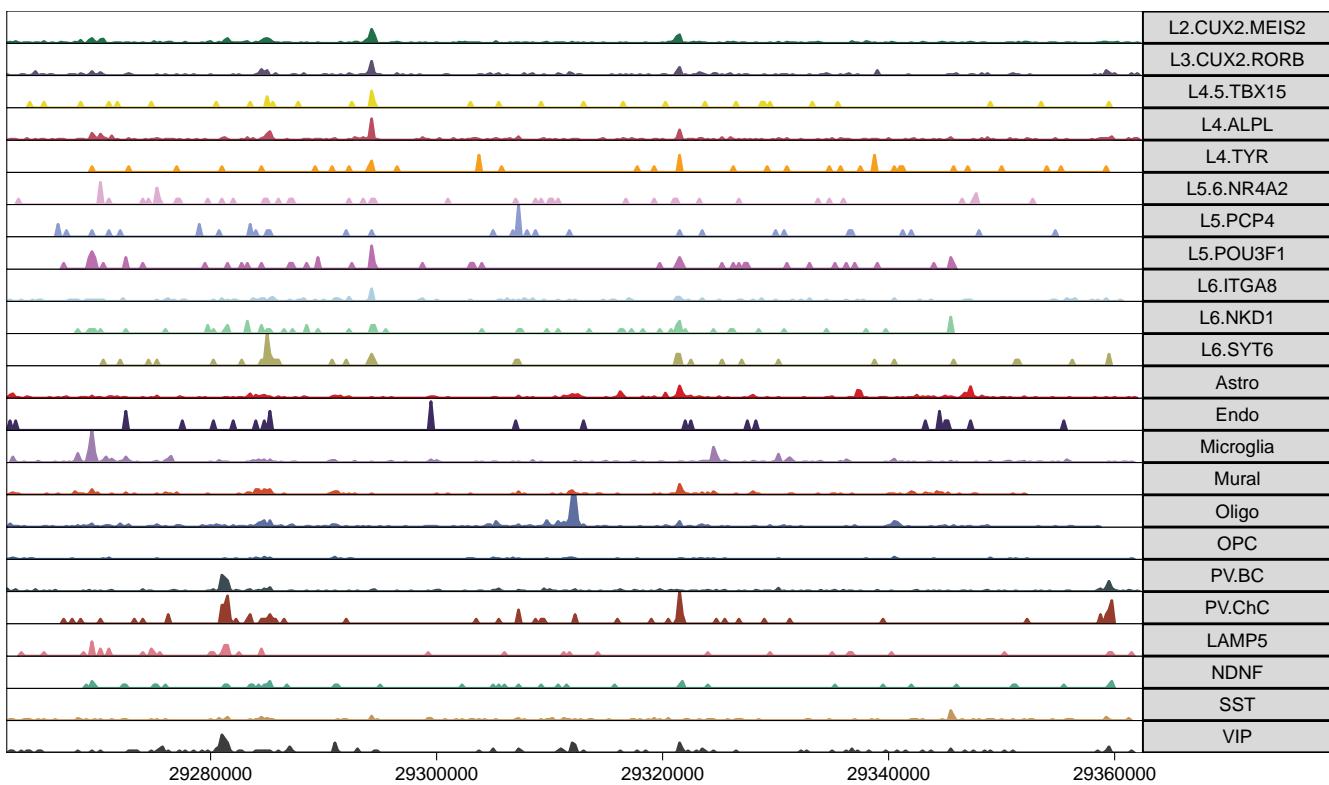
Coverage  
(Norm. ATAC Signal Range (0–1.17) by ReadstTSS)

134620000 134640000 134660000 134680000 134700000



strand ● •

## chr15:29261960–29362461 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.32) by ReadsInTSS)

VIP

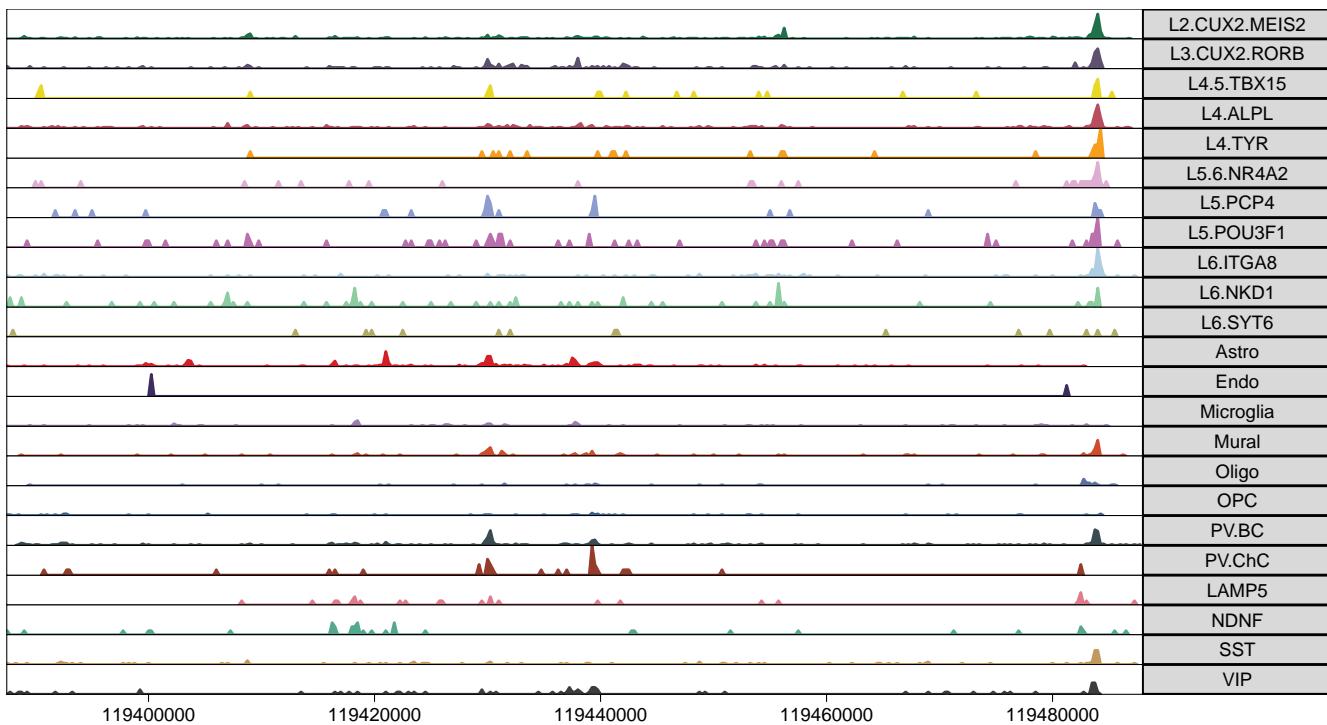
Peaks

LoopTrack

RGS3

Genes

## chr9:119387454–119487955 Marker Peak Tracks for: VIP

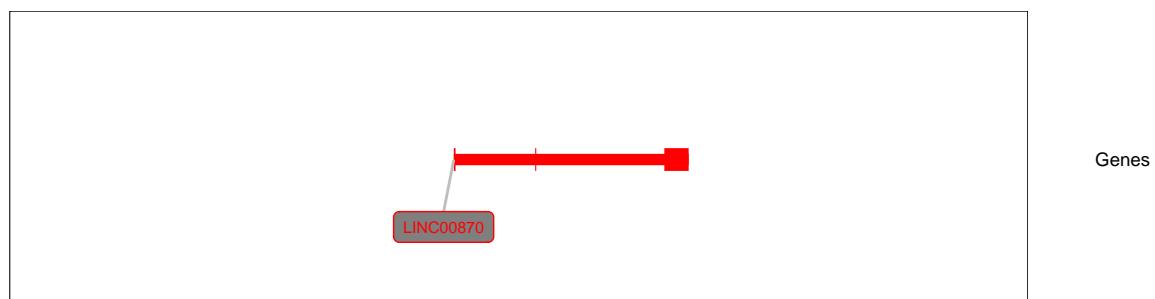
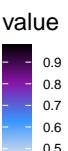
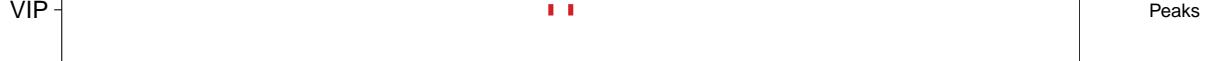
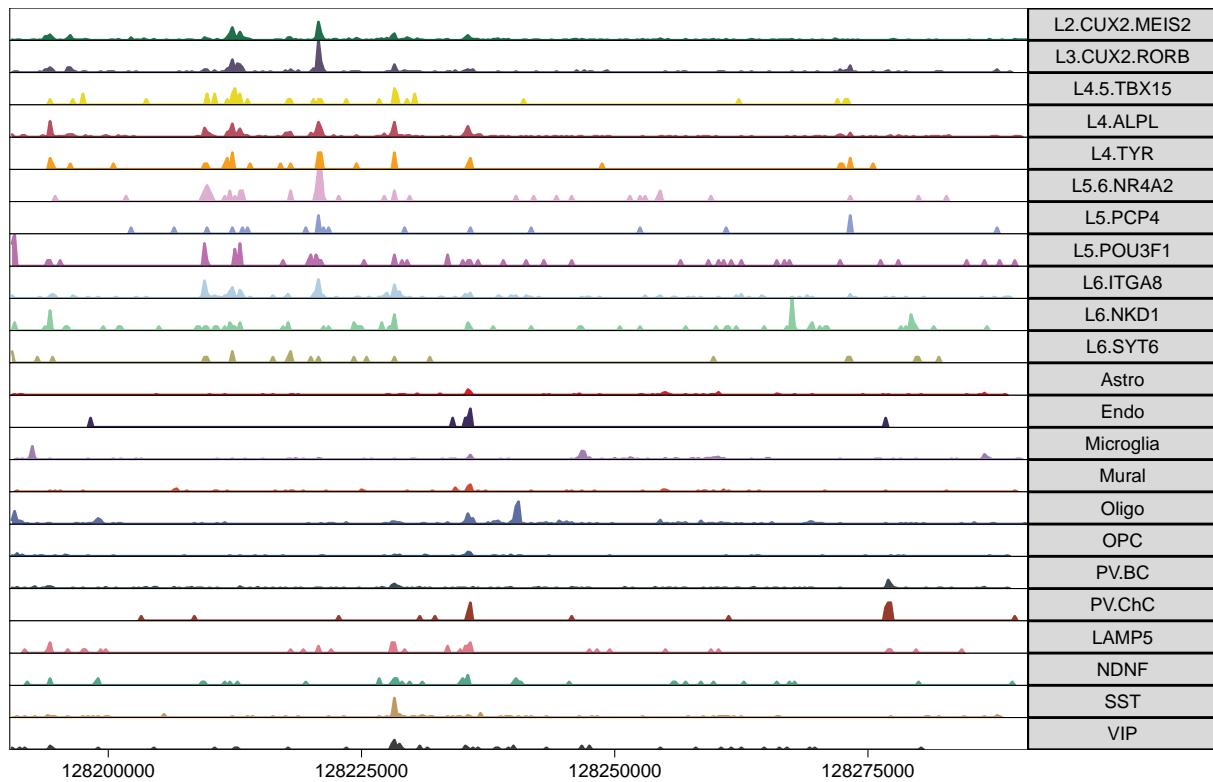
Coverage  
(Norm. ATAC Signal Range (0–1.06) by ReadstTSS)

119400000 119420000 119440000 119460000 119480000

strand ● •

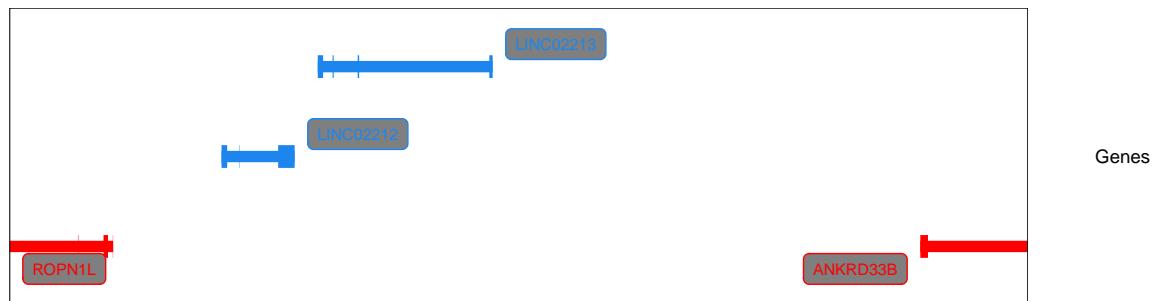
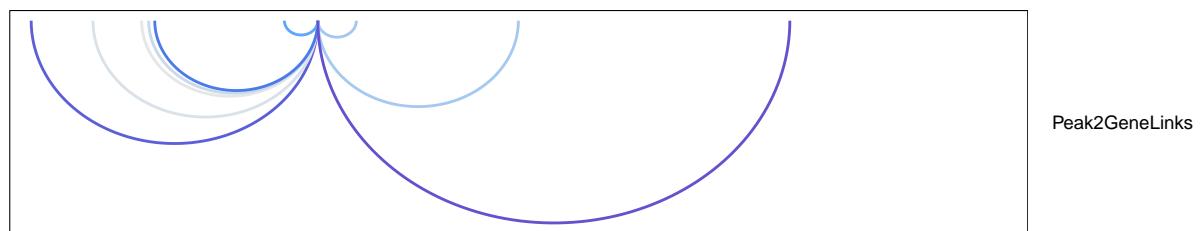
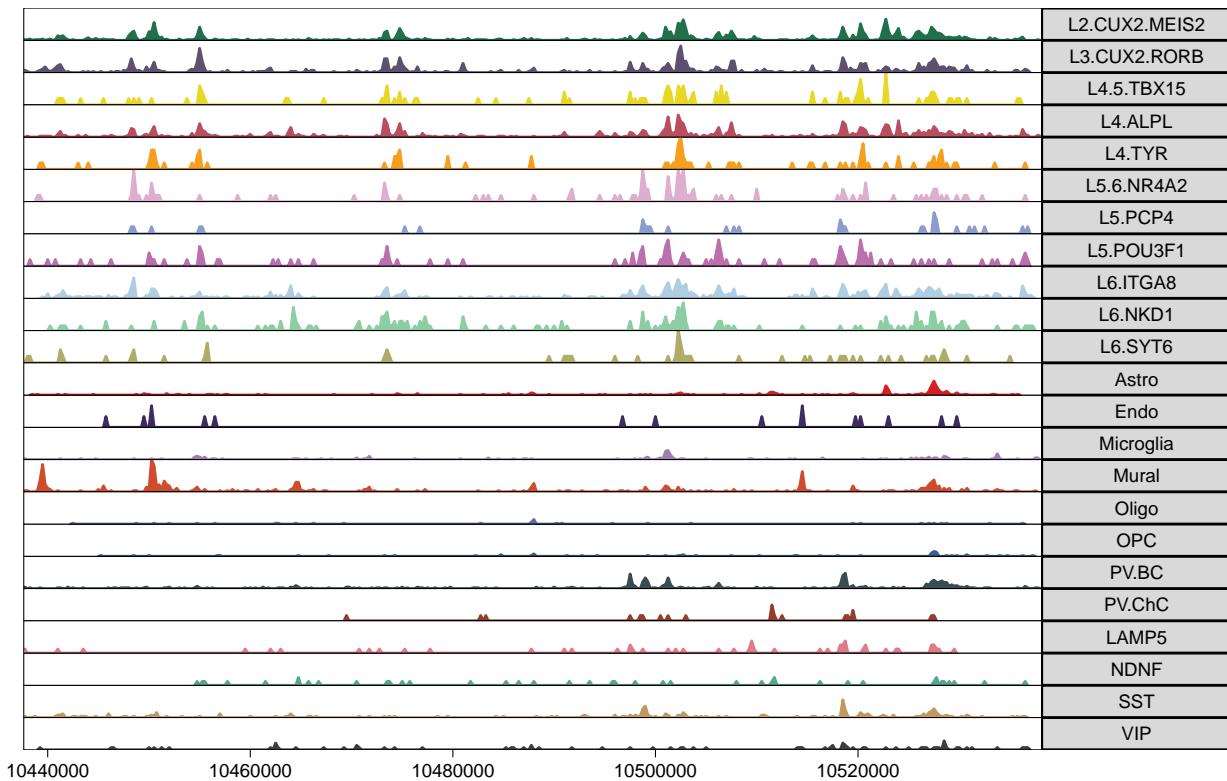
chr2:128190272–128290773 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.36) by ReadInTSS)

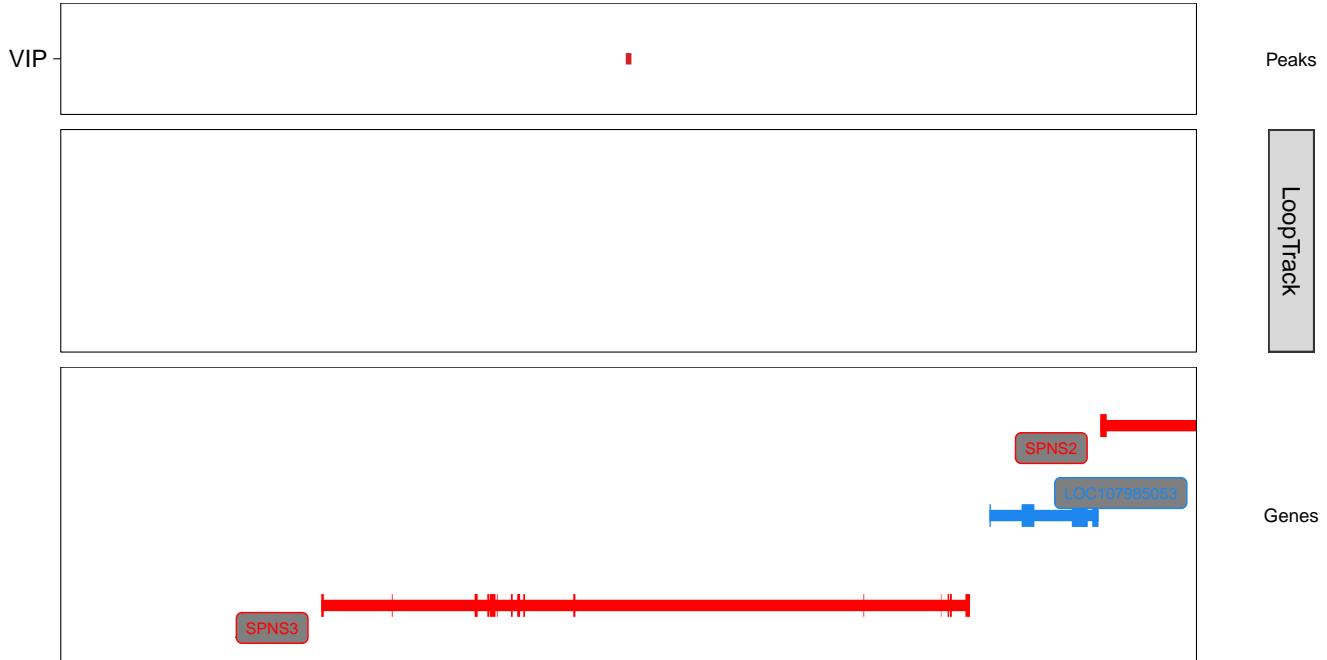
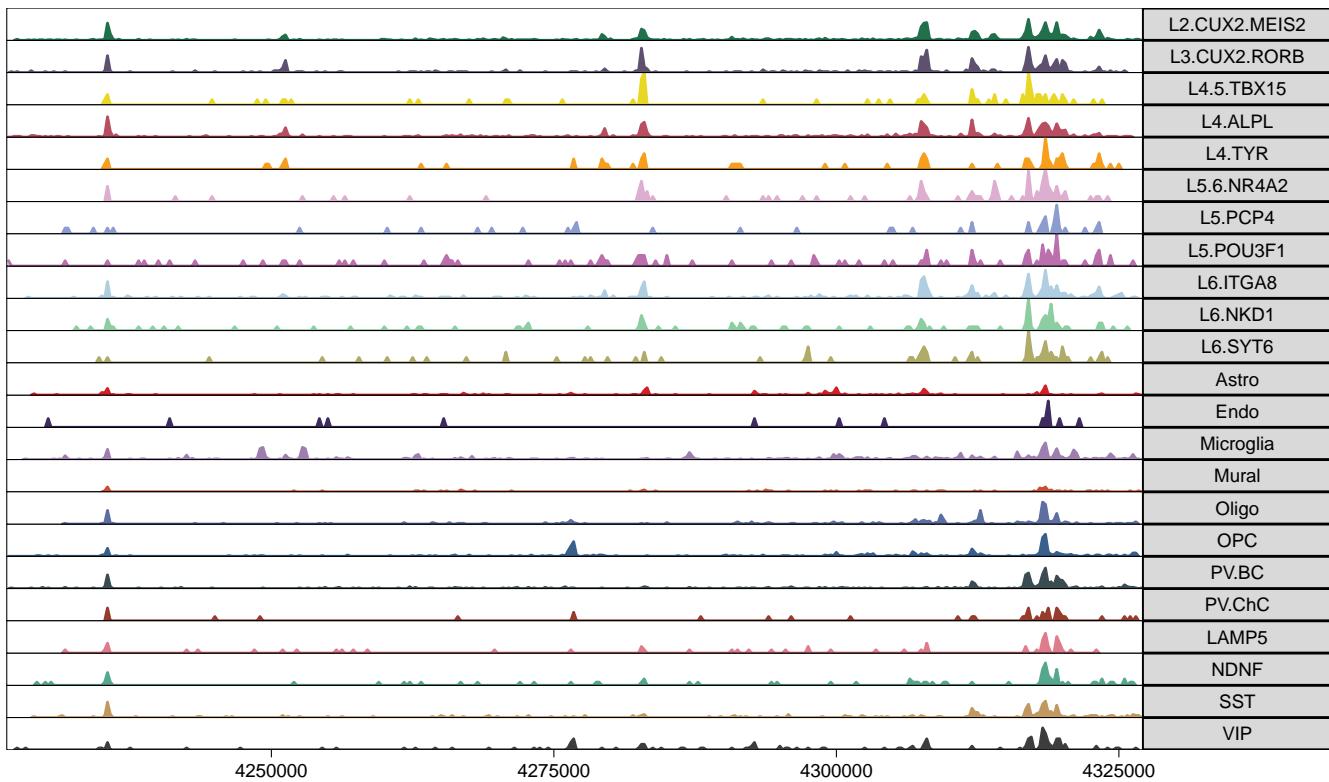


chr6:10437634–10538135 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.17) by ReadsInTSS)

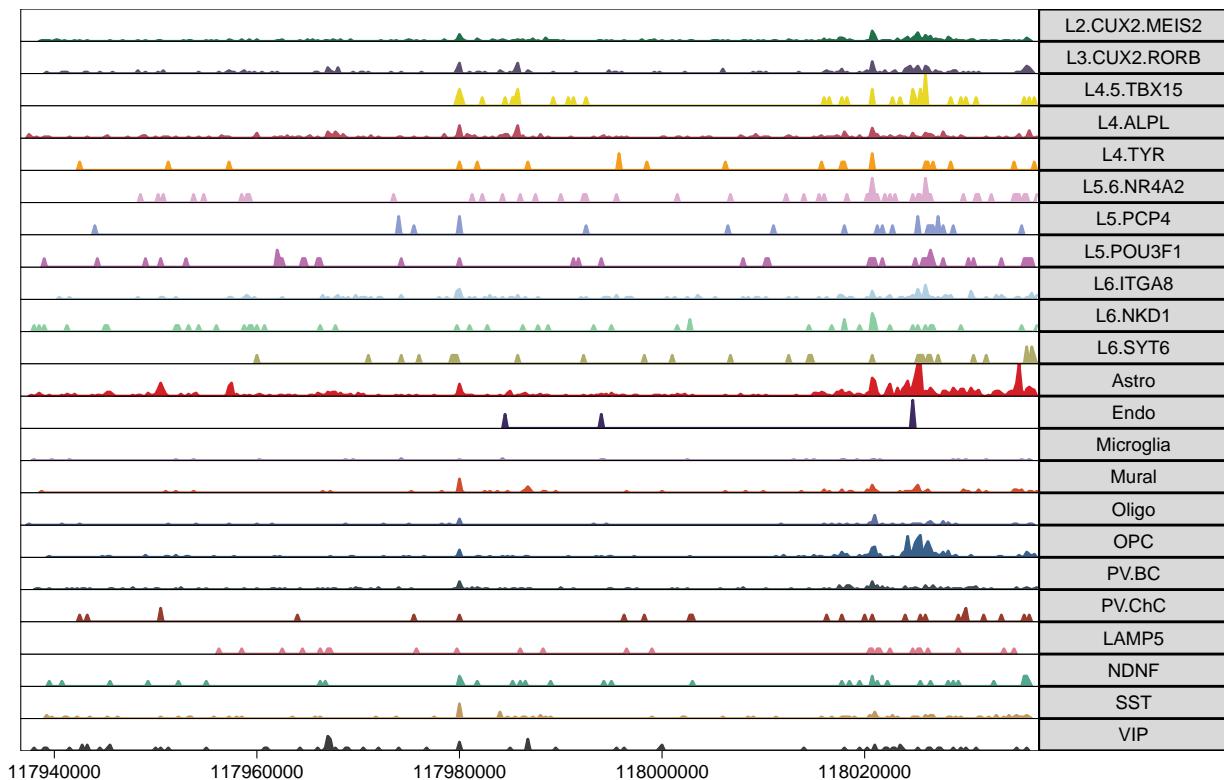


## chr16:4226583–4327084 Marker Peak Tracks for: VIP

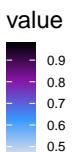
Coverage  
(Norm. ATAC Signal Range (0–1.4+) by ReadsInTSS)

chr9:117936685–118037186 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0-0.9) by ReadsInTSS)

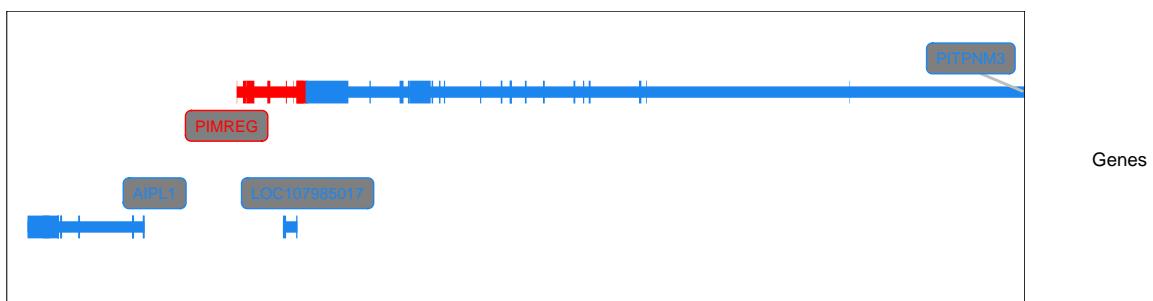
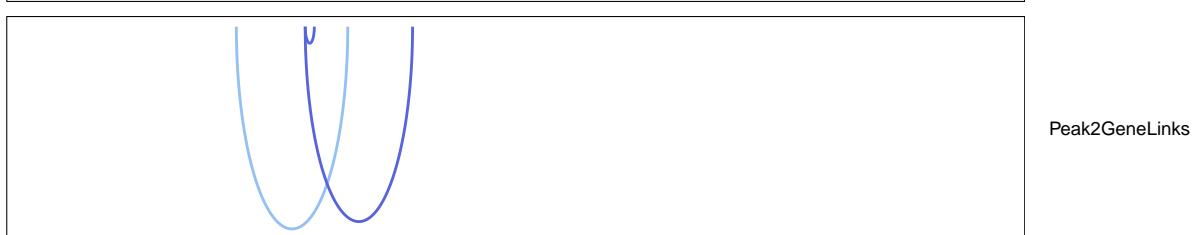
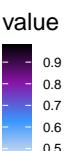
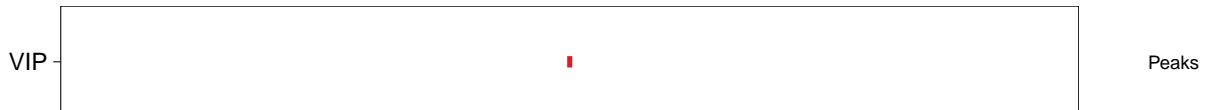
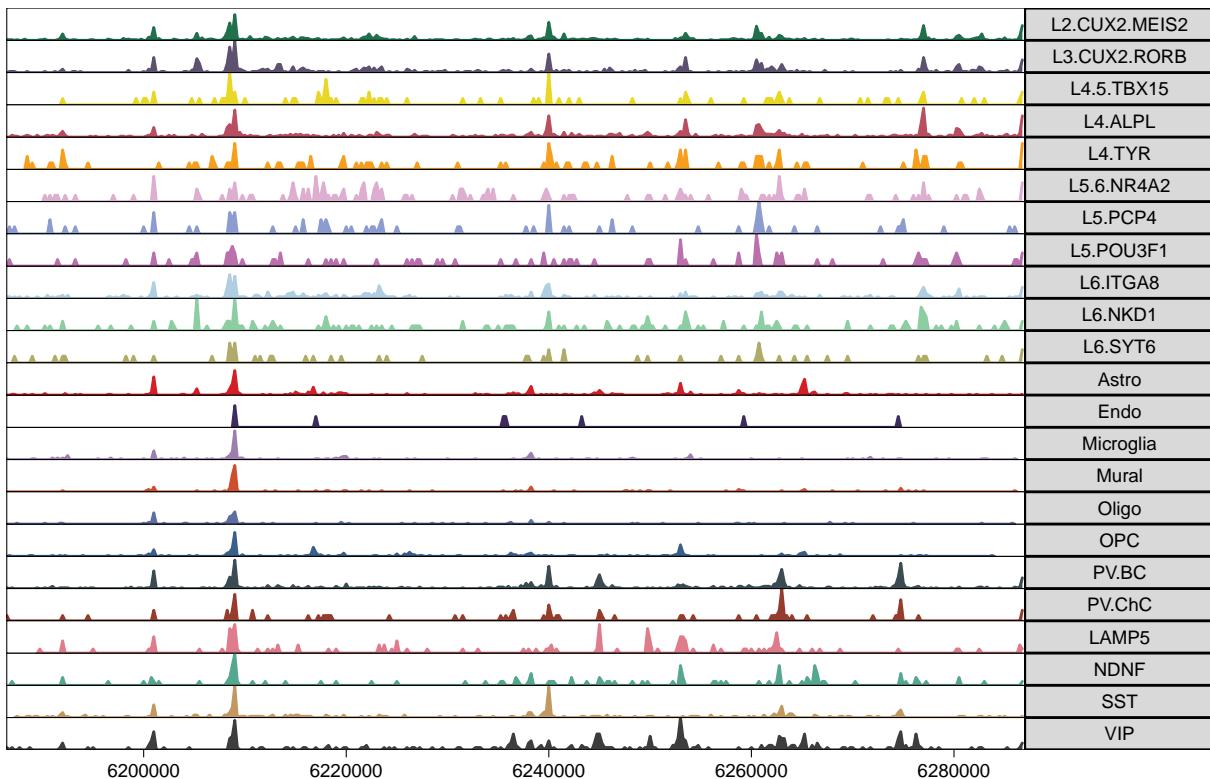


117940000    117960000    117980000    118000000    118020000



chr16:6186483–6286984 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0-1.16) by ReadsInTSS)



# chr16:53284775–53385276 Marker Peak Tracks for: VIP

Coverage  
(Norm. ATAC Signal Range (0–1.42) by ReadsInTSS)

