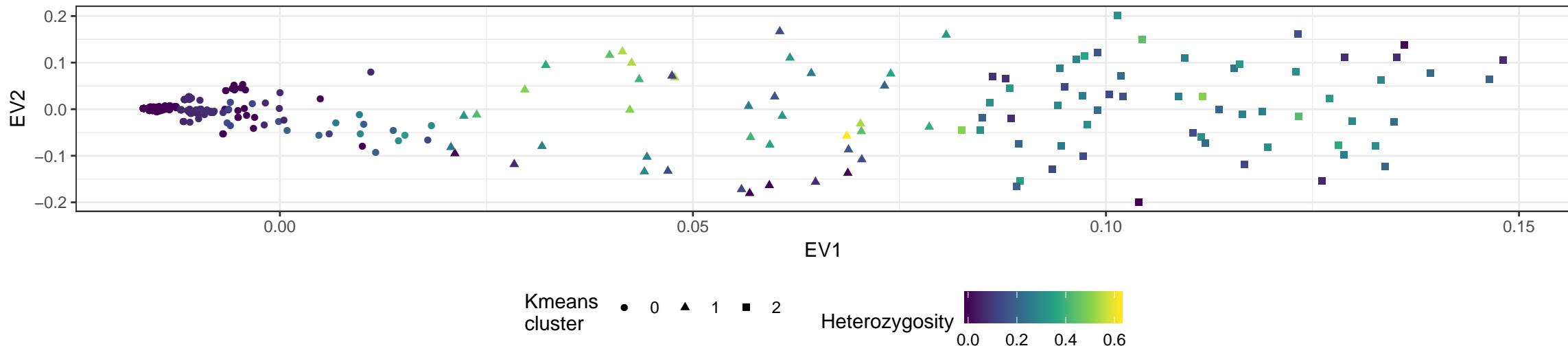
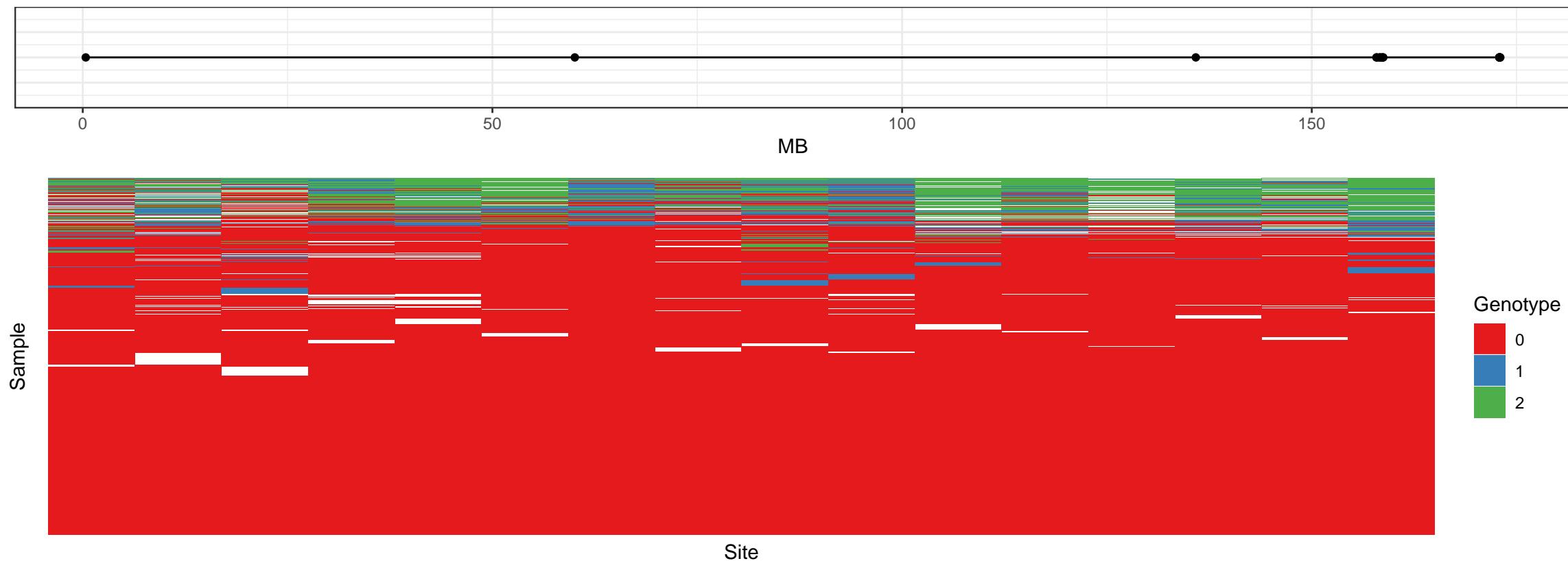


# Ha412HOChr10:0.367–173.007MB Size=172.64MB

2769\_0.35 BetweenSS = 0.953945100499611

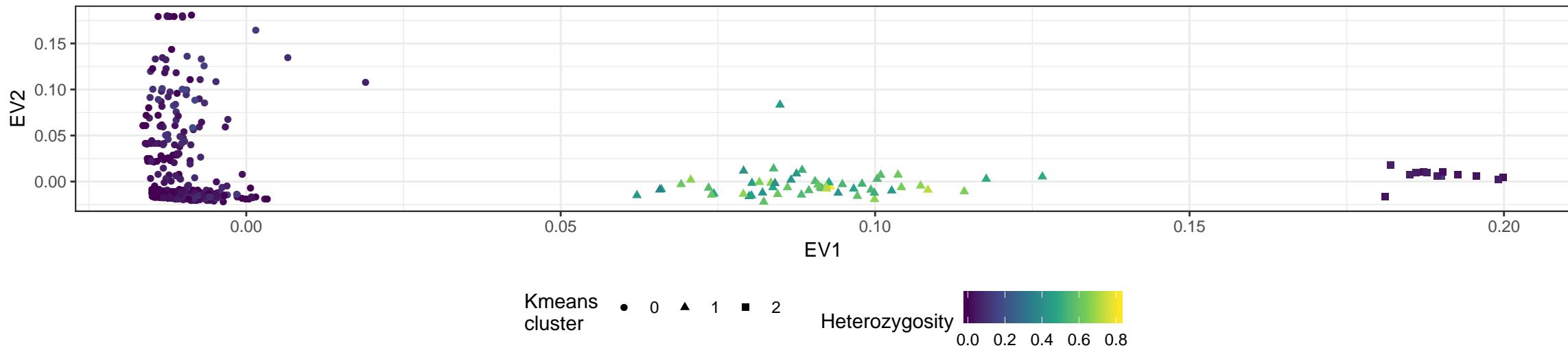


Ha412HOChr10

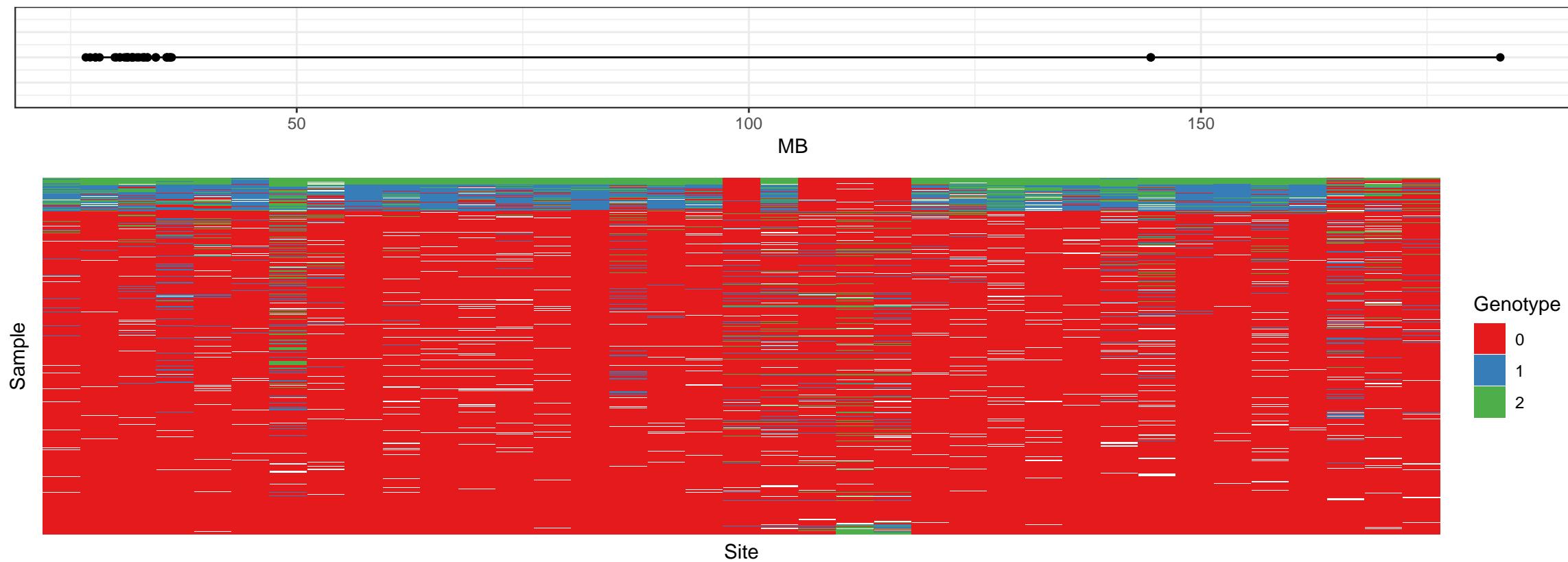


# Ha412HOChr02:26.671–183.099MB Size=156.429MB

3000\_0.25 BetweenSS = 0.981676590708427

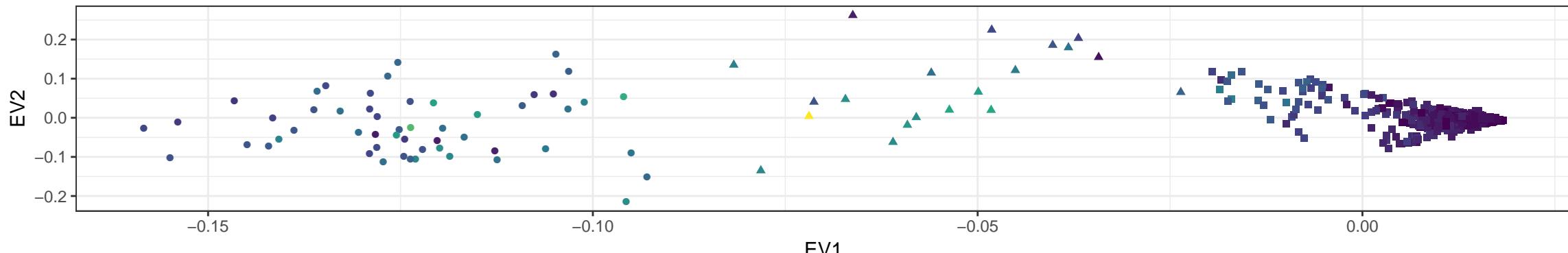


Ha412HOChr02

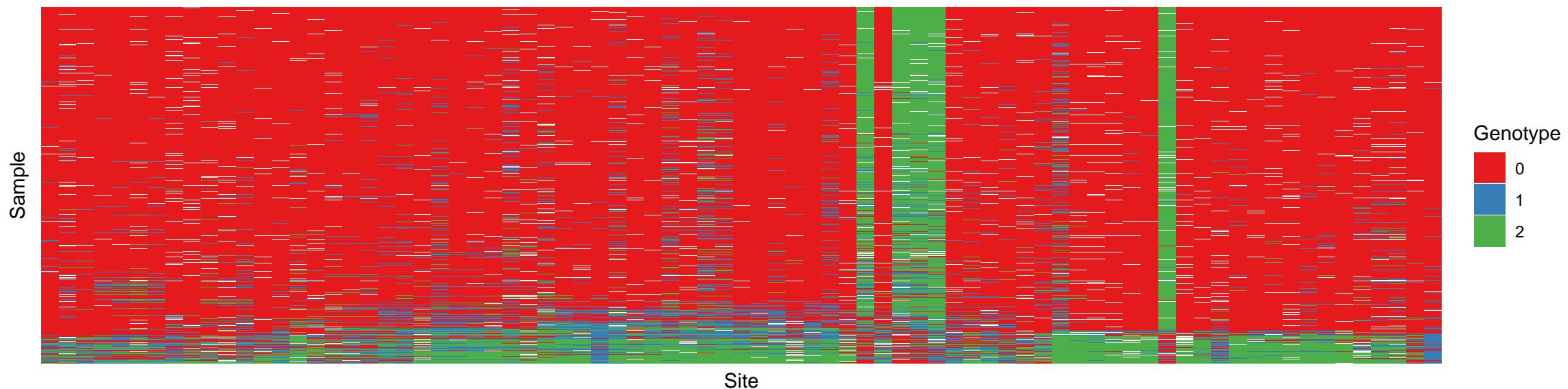
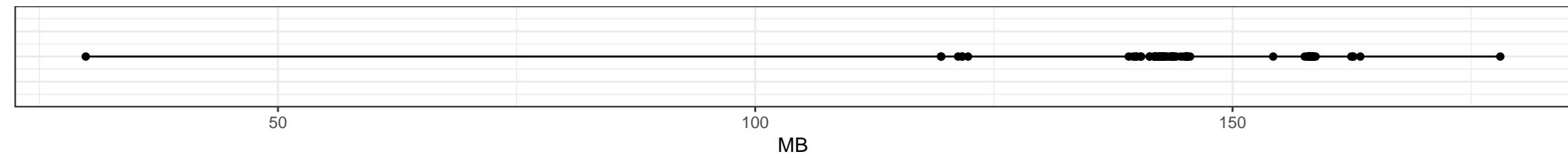


# Ha412HOChr10:29.864–178.05MB Size=148.185MB

2591\_0.39 BetweenSS = 0.954814395488862

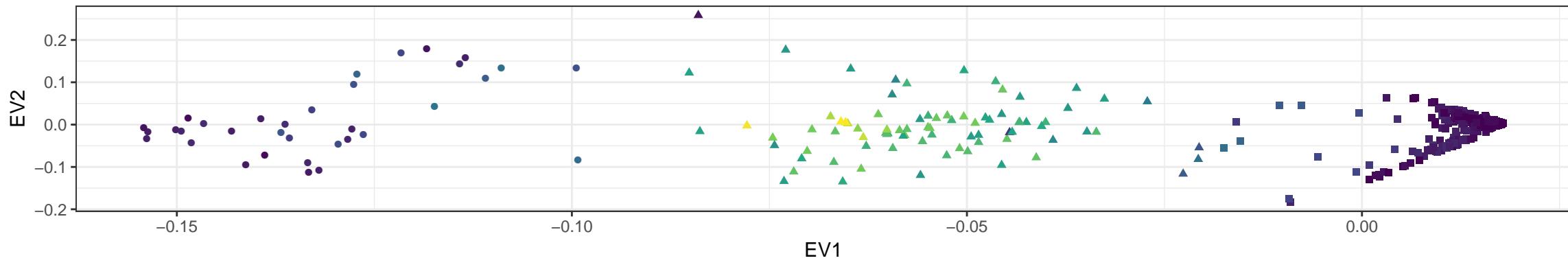


Ha412HOChr10



# Ha412HOChr13:9.047–111.219MB Size=102.172MB

1251\_0.56 BetweenSS = 0.965353802474832

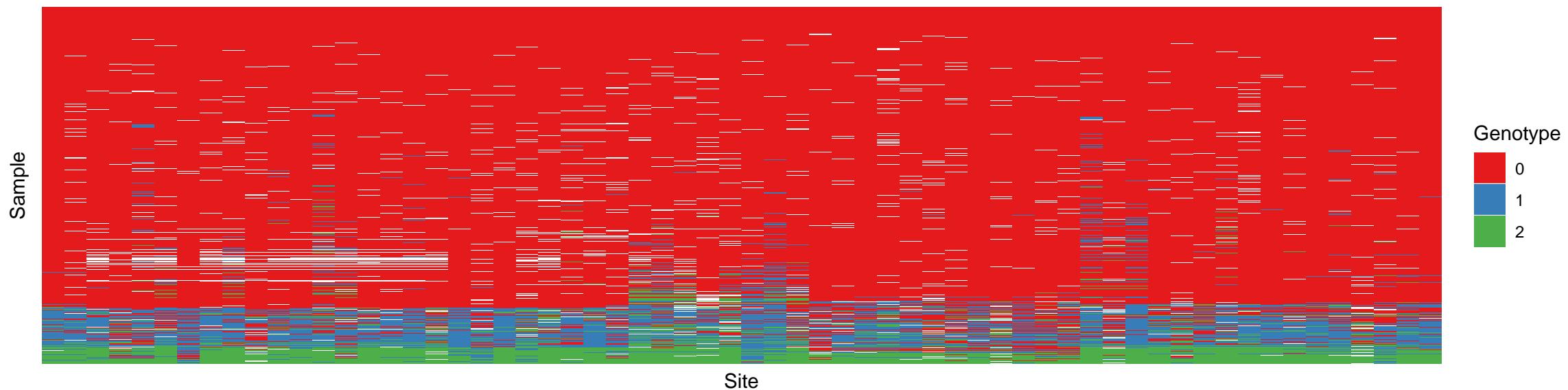
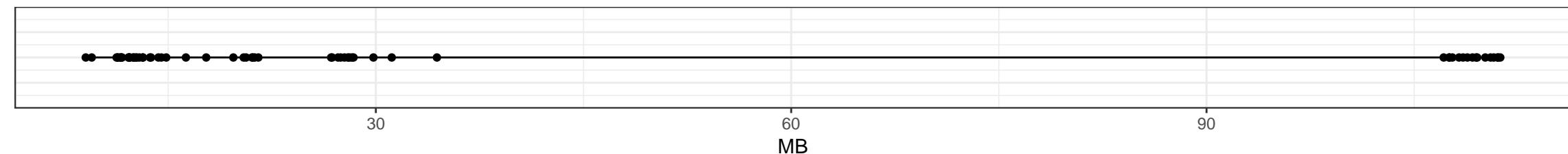


Kmeans  
cluster

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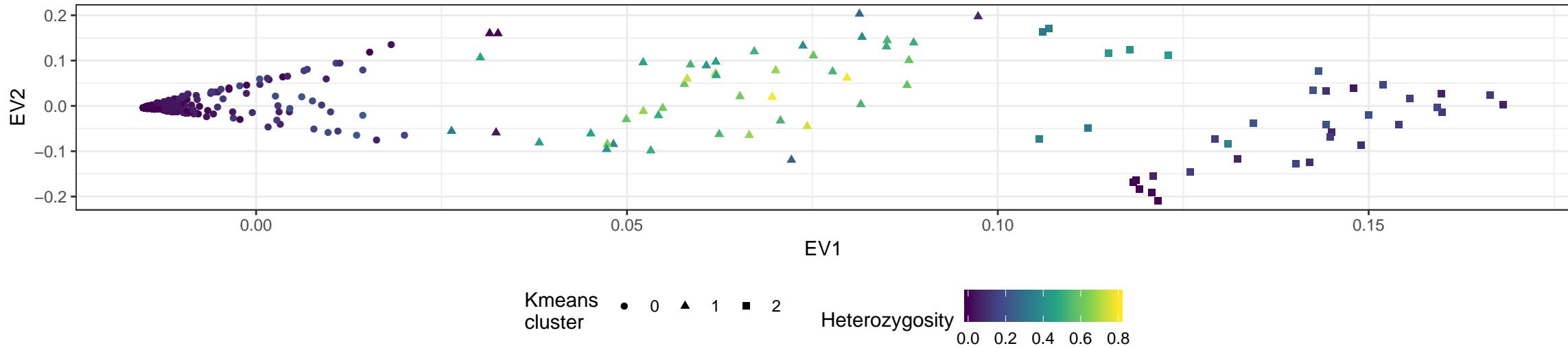
Heterozygosity  
0.0 0.2 0.4 0.6 0.8

Ha412HOChr13

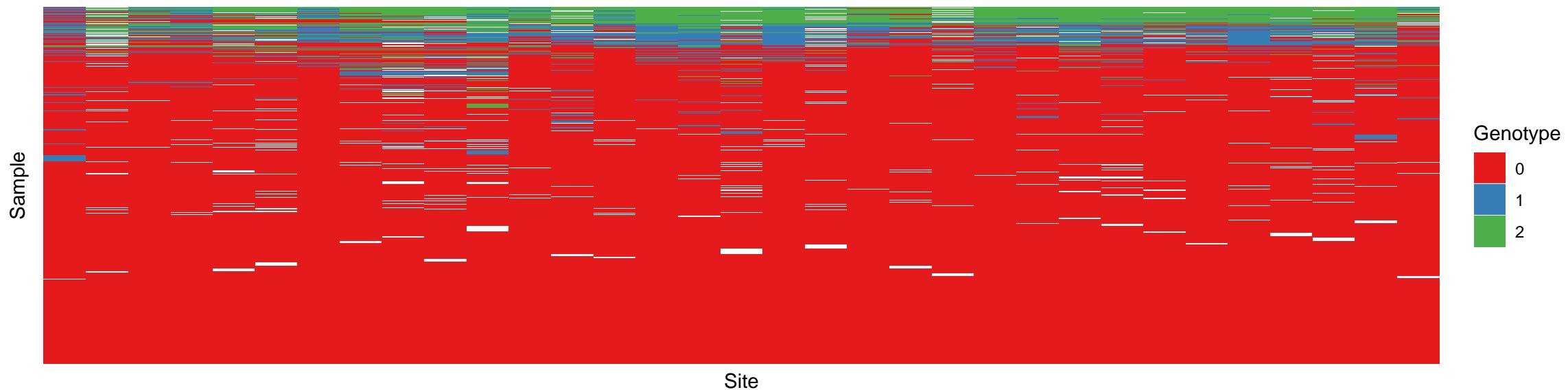
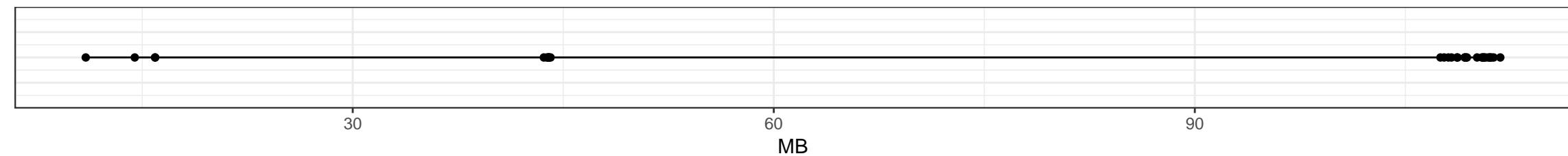


# Ha412HOChr13:10.979–111.765MB Size=100.786MB

1295\_0.55 BetweenSS = 0.95598012507014

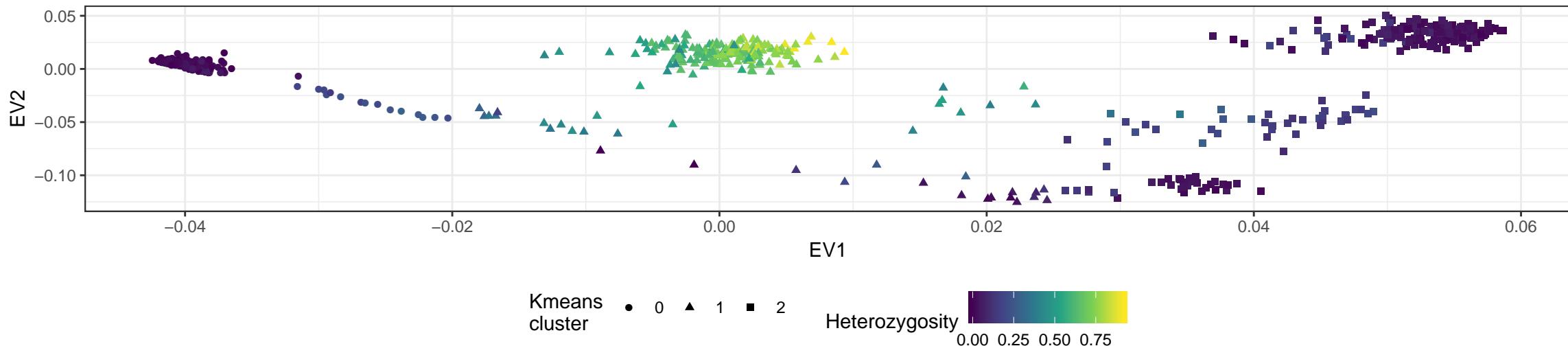


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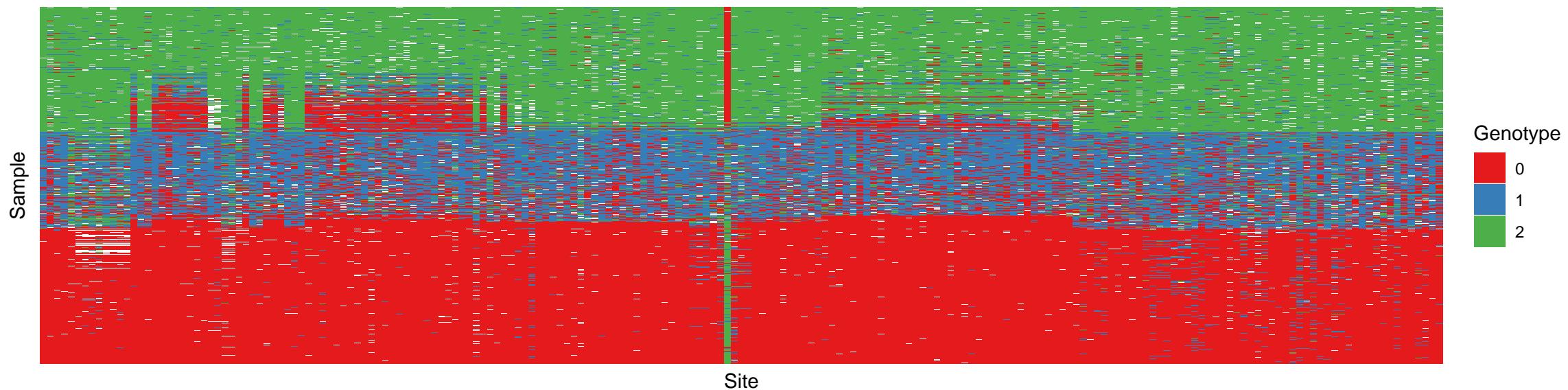
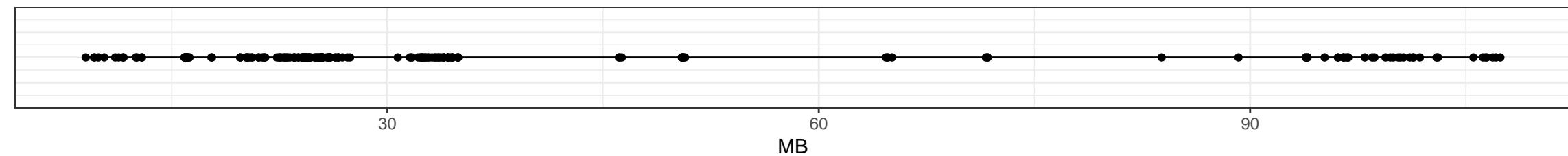


# Ha412HOChr13:9.023–107.397MB Size=98.374MB

409\_0.74 BetweenSS = 0.967970443116763

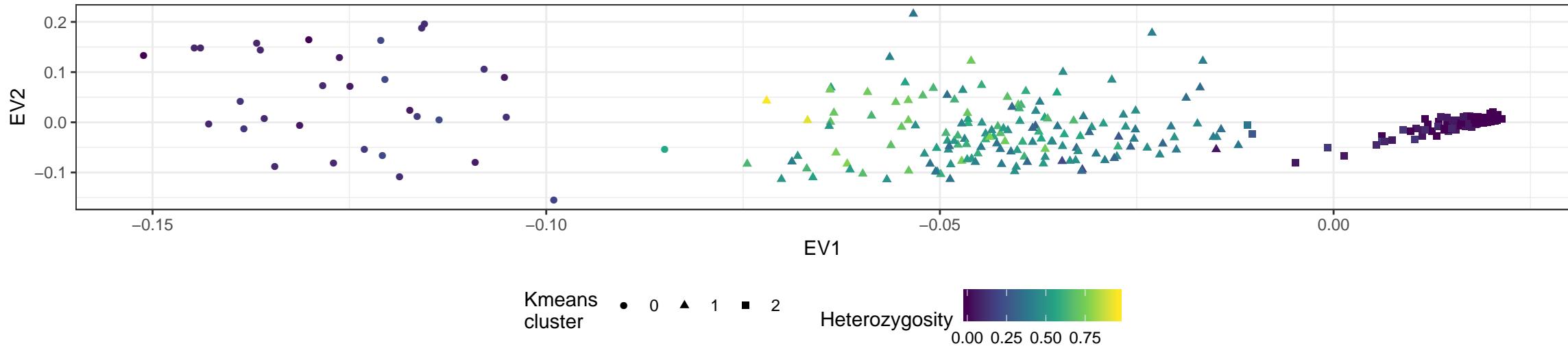


Ha412HOChr13

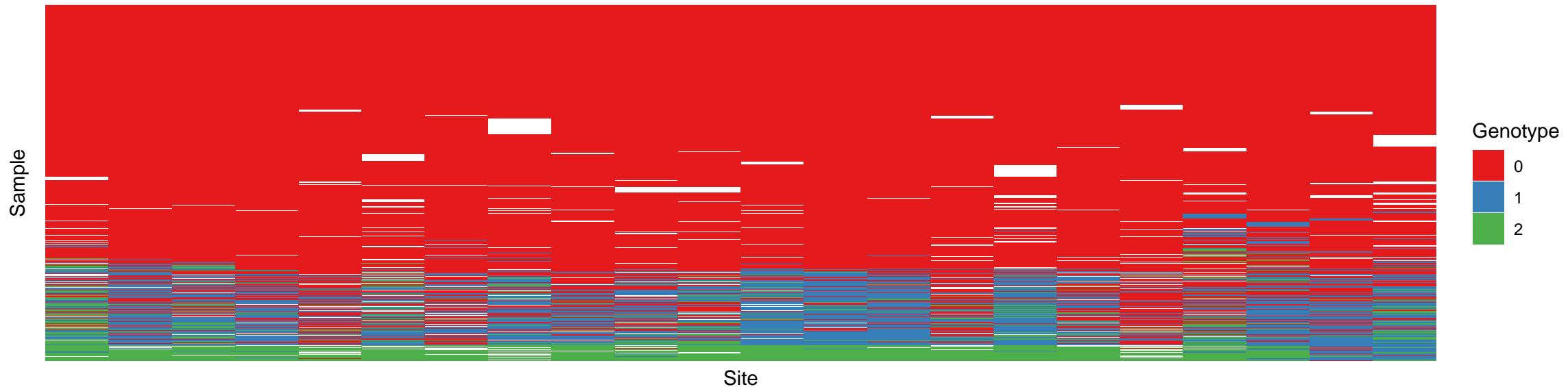
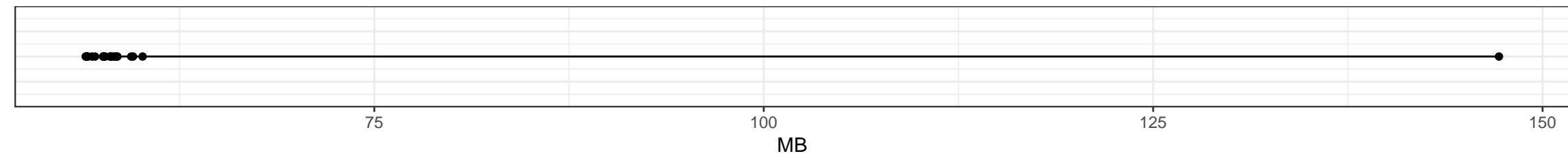


# Ha412HOChr03:56.47–147.201MB Size=90.731MB

1962\_0.4 BetweenSS = 0.958830700653329

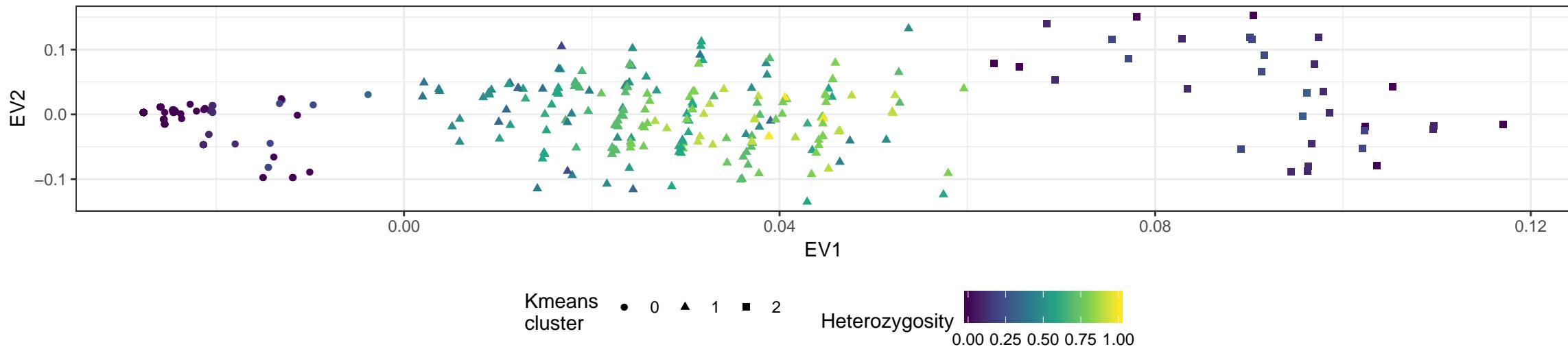


Ha412HOChr03

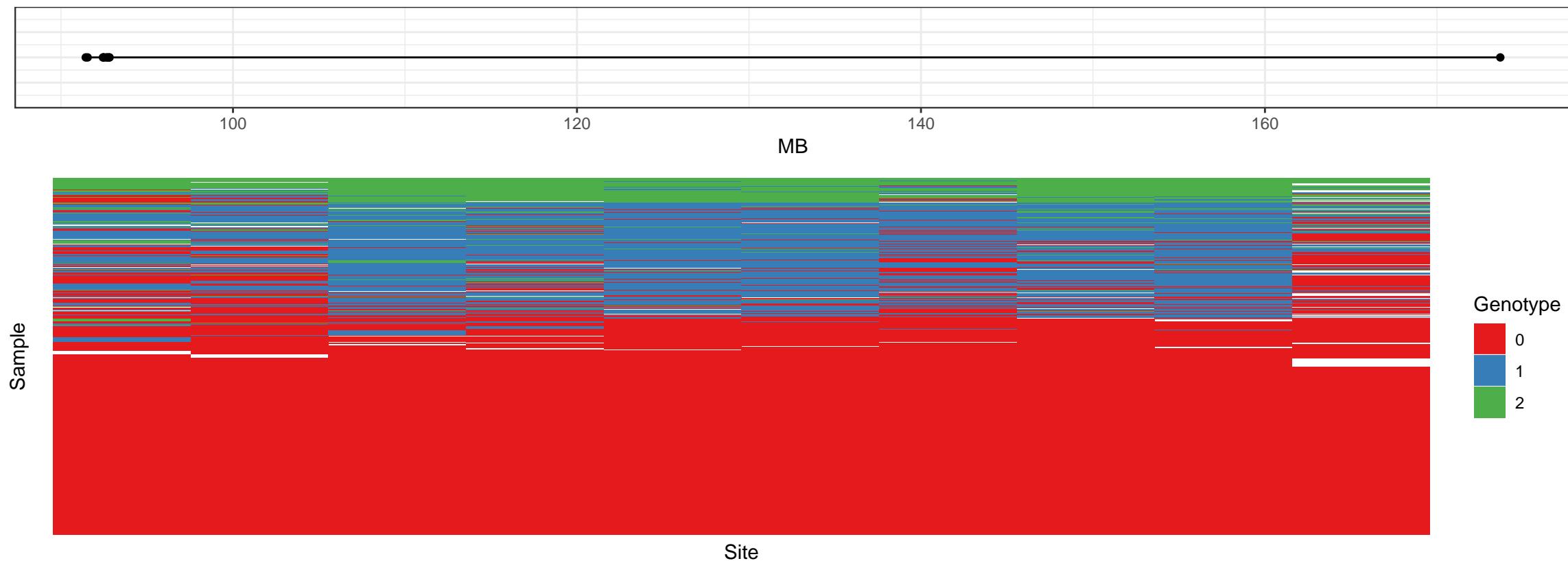


# Ha412HOChr17:91.44–173.682MB Size=82.241MB

2257\_0.45 BetweenSS = 0.951523743244452

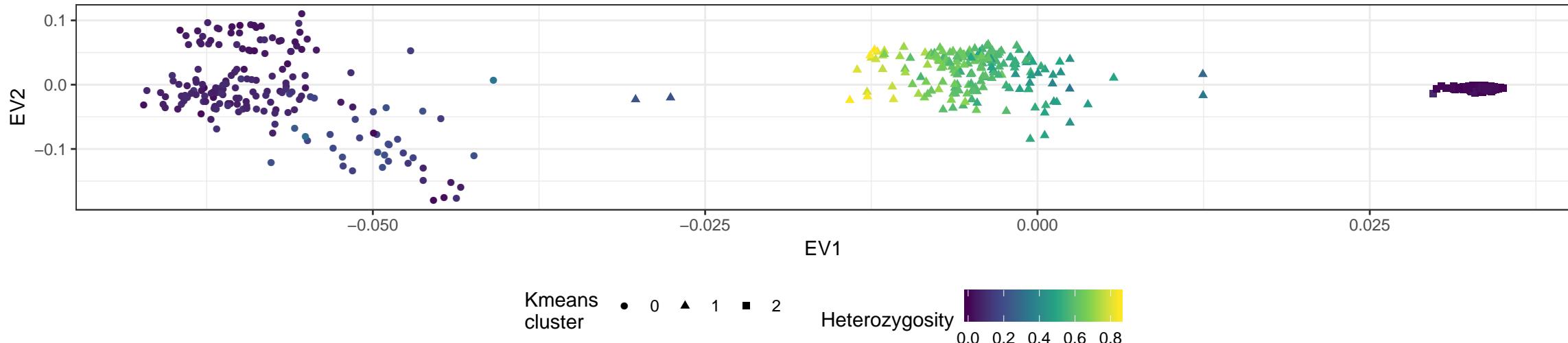


Ha412HOChr17

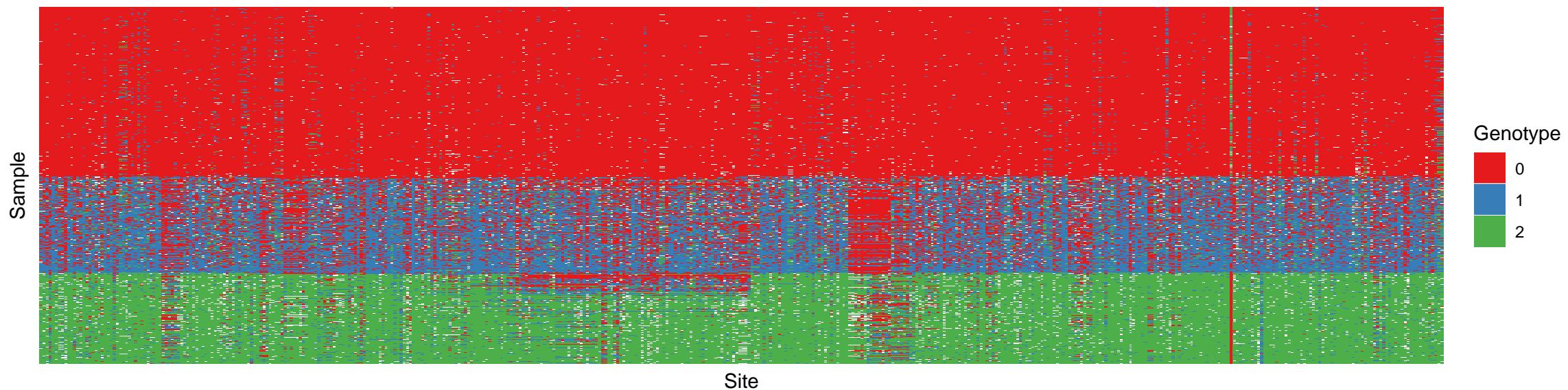
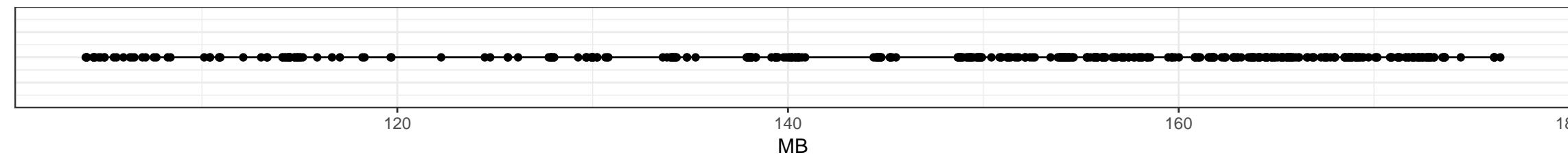


# Ha412HOChr15:104.05–176.463MB Size=72.413MB

588\_0.66 BetweenSS = 0.989802477100221

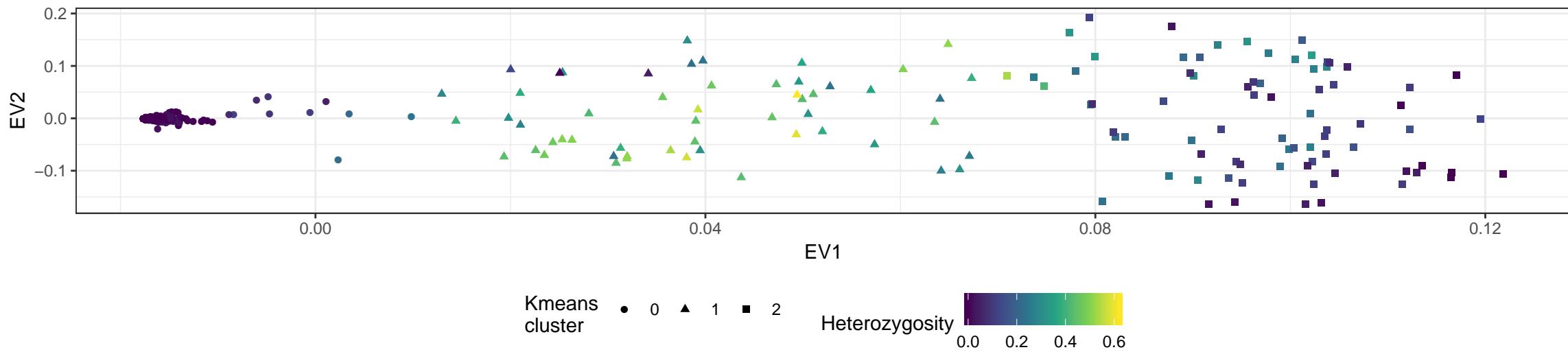


Ha412HOChr15

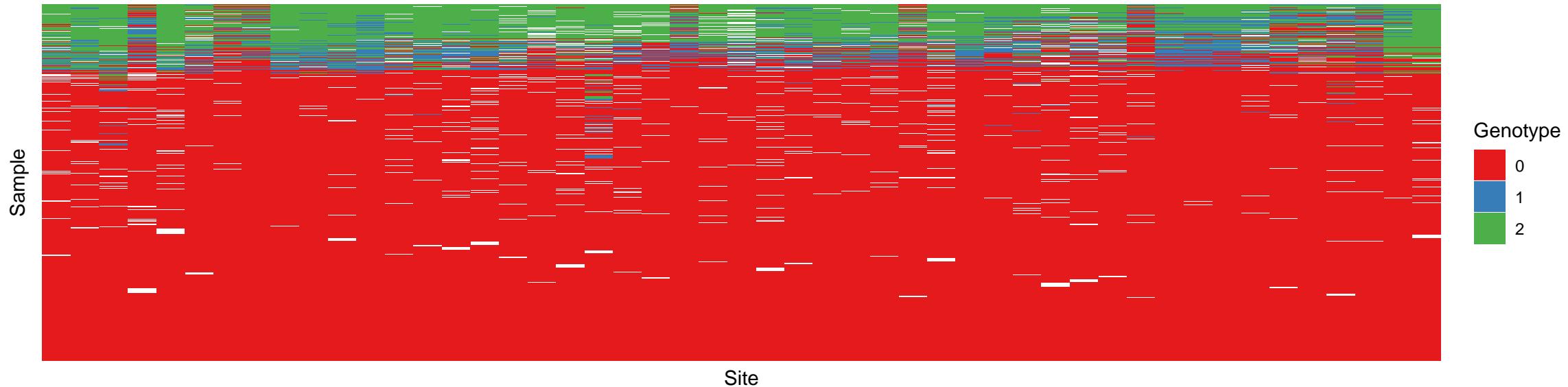
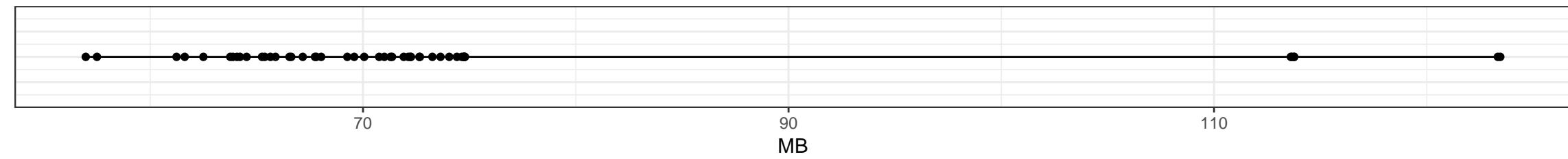


# Ha412HOChr05:56.97–123.452MB Size=66.483MB

1451\_0.56 BetweenSS = 0.974456274463852

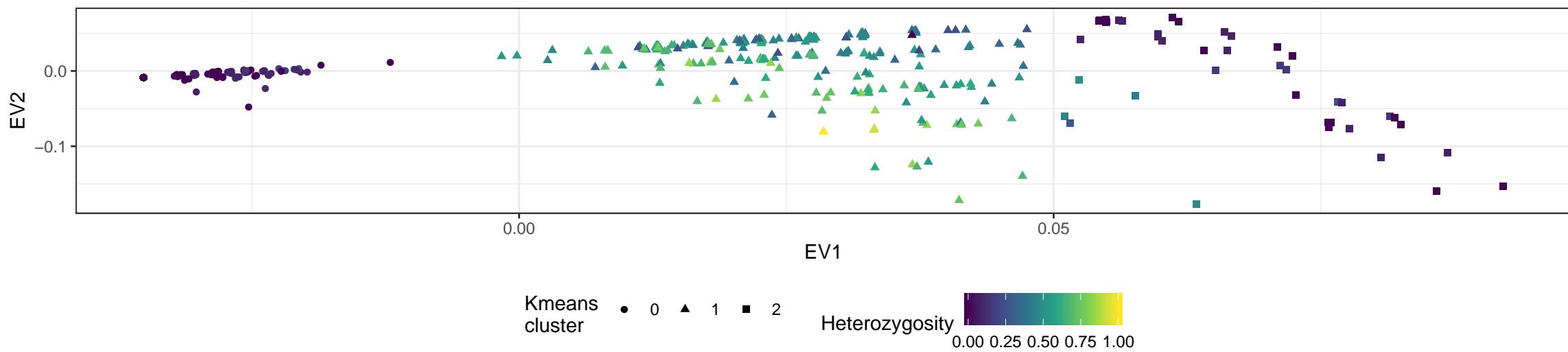


Ha412HOChr05

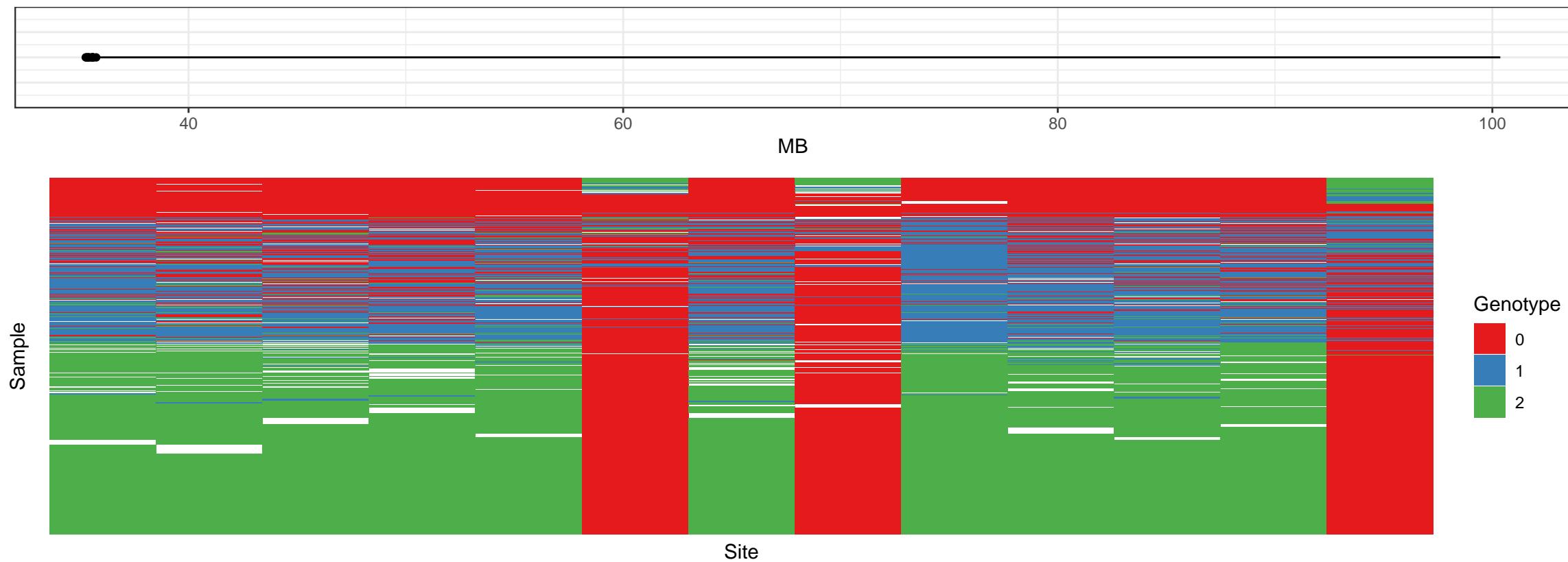


# Ha412HOChr07:35.269–100.365MB Size=65.096MB

2191\_0.35 BetweenSS = 0.956230930495064

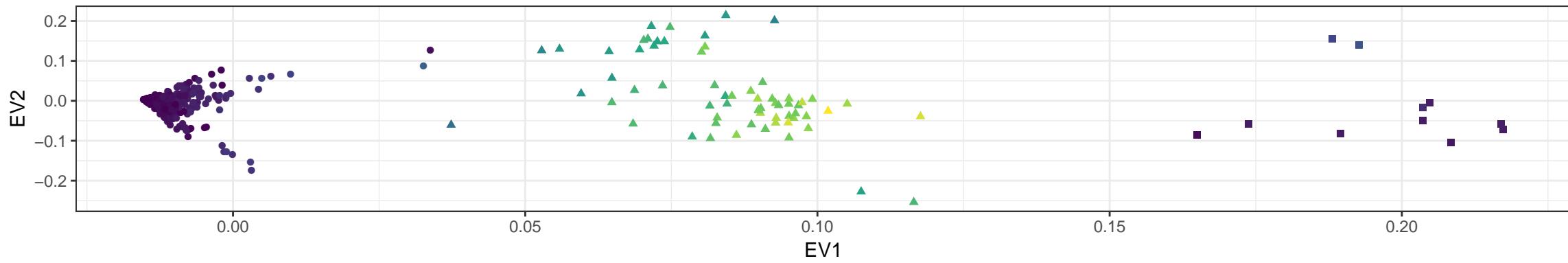


Ha412HOChr07

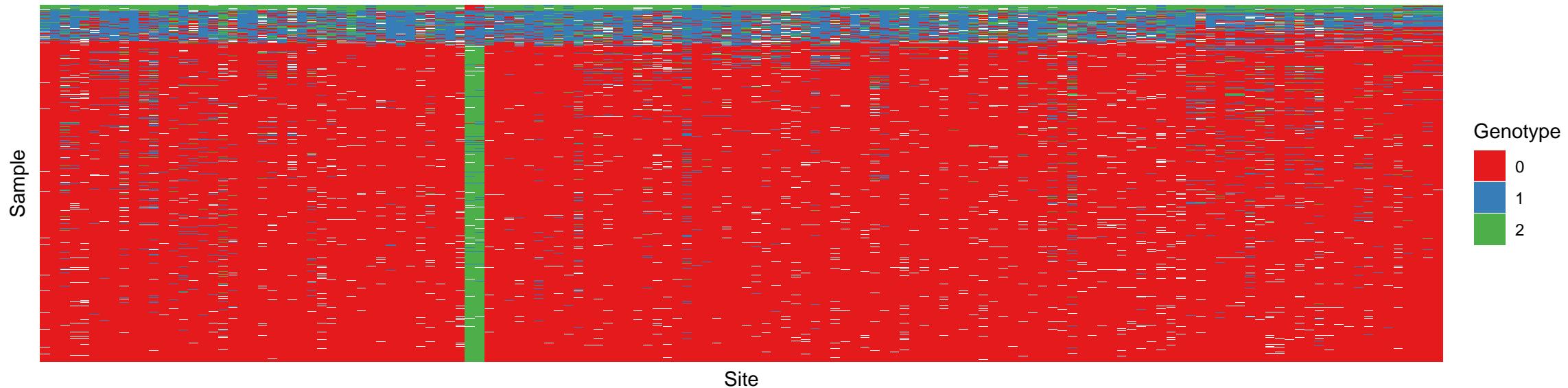
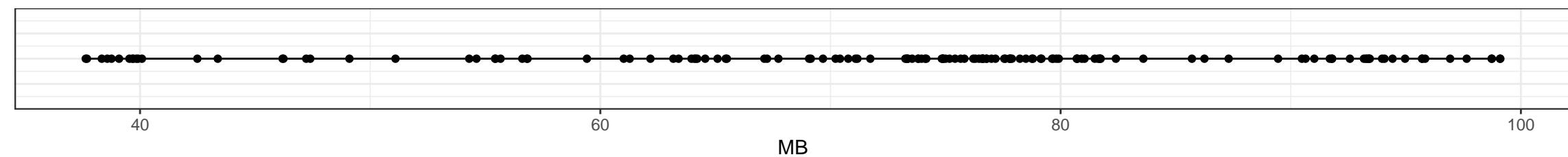


# Ha412HOChr05:37.641–99.104MB Size=61.463MB

2237\_0.41 BetweenSS = 0.972788810173317

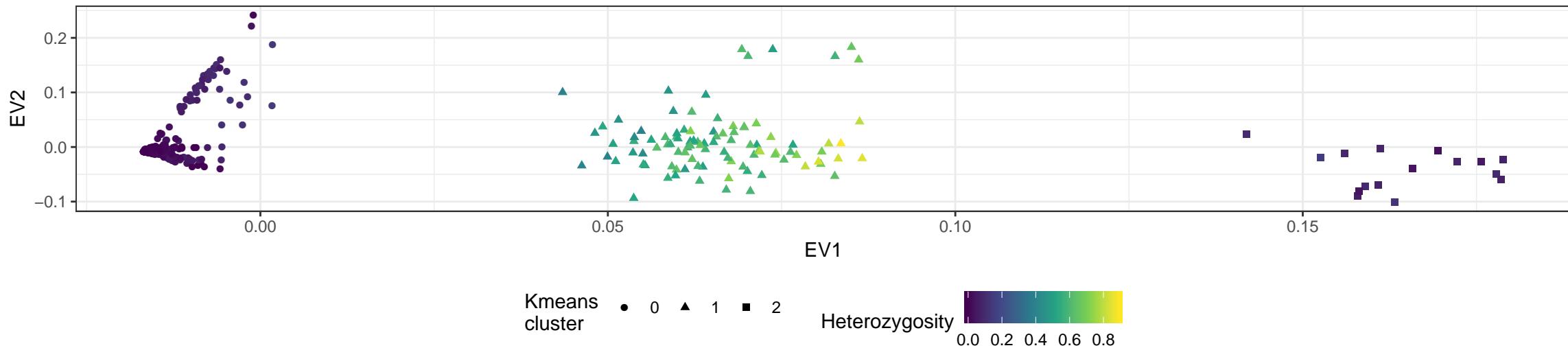


Ha412HOChr05

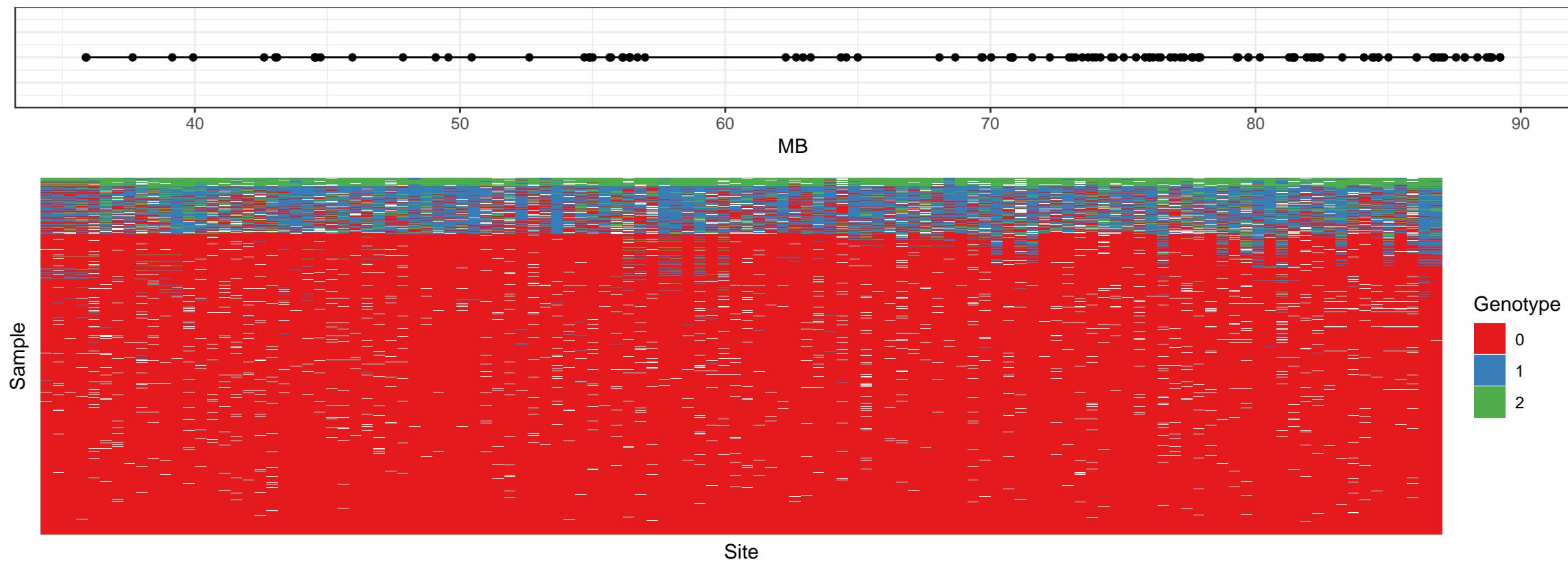


# Ha412HOChr05:35.885–89.227MB Size=53.342MB

1333\_0.58 BetweenSS = 0.984221546035105

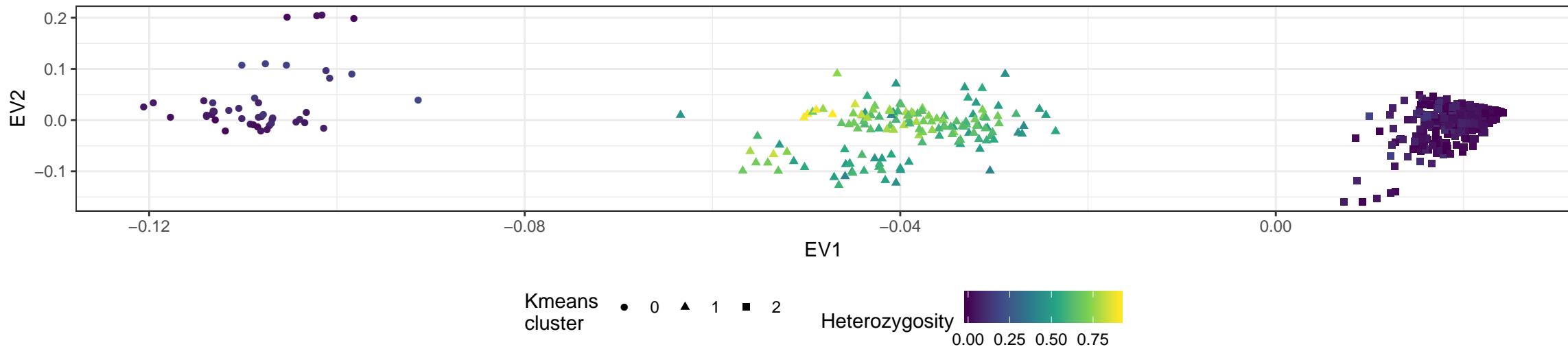


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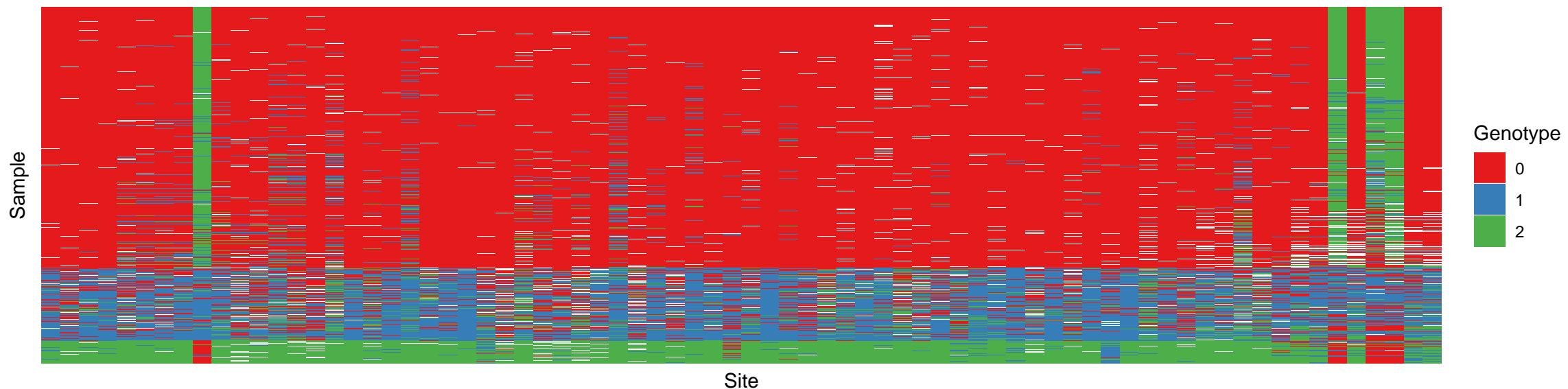
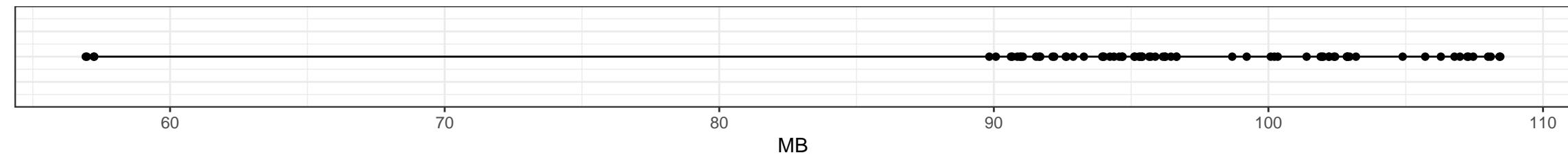


# Ha412HOChr04:56.929–108.443MB Size=51.514MB

2193\_0.49 BetweenSS = 0.98549260682767

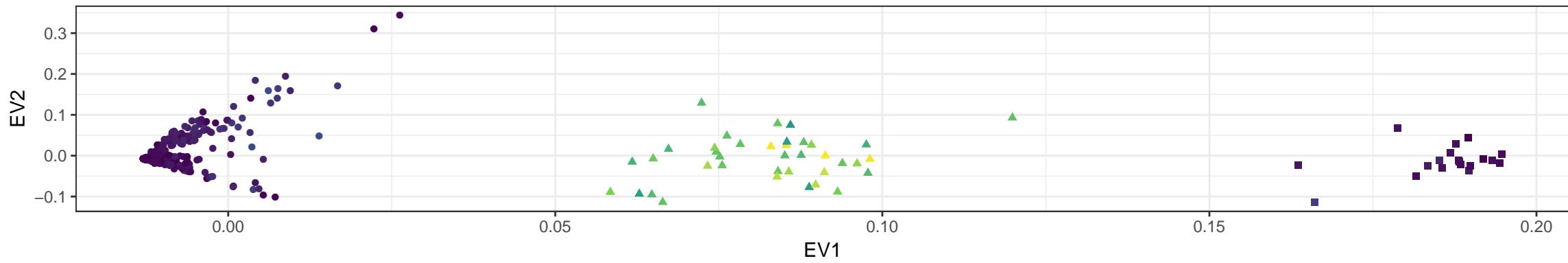


Ha412HOChr04

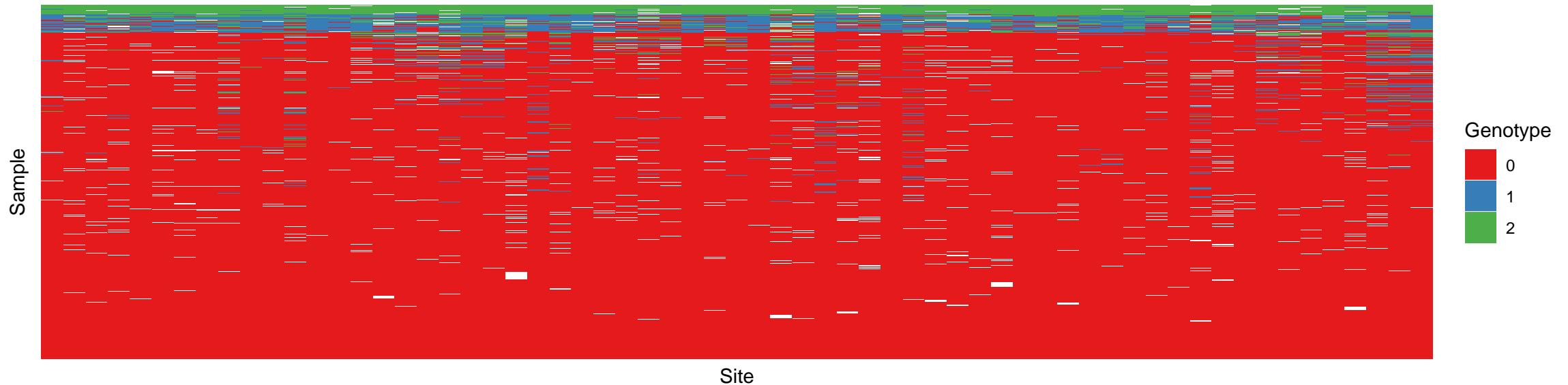
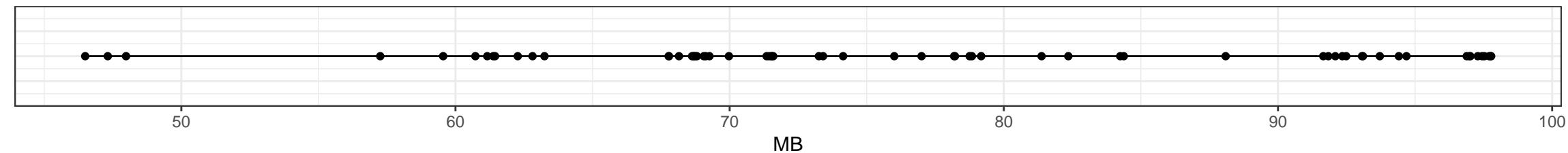


# Ha412HOChr10:46.495–97.775MB Size=51.28MB

1696\_0.57 BetweenSS = 0.979584822120159

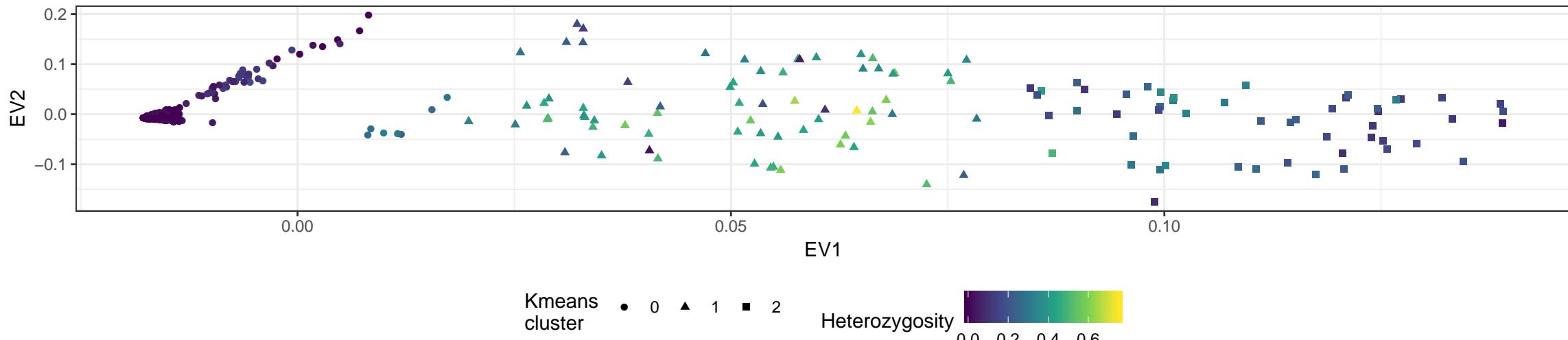


Ha412HOChr10

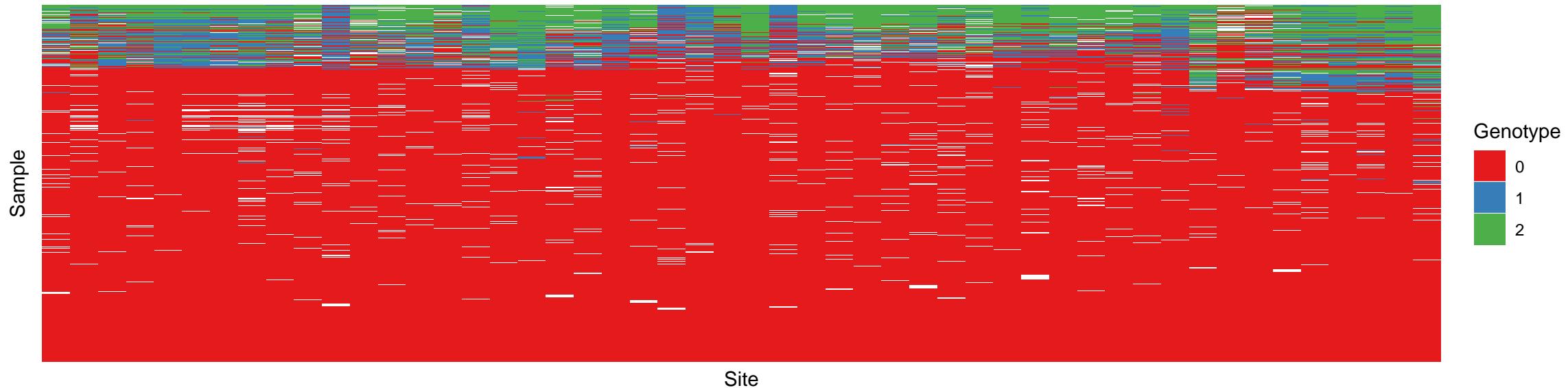


# Ha412HOChr13:10.352–57.564MB Size=47.212MB

1337\_0.54 BetweenSS = 0.957808896989258

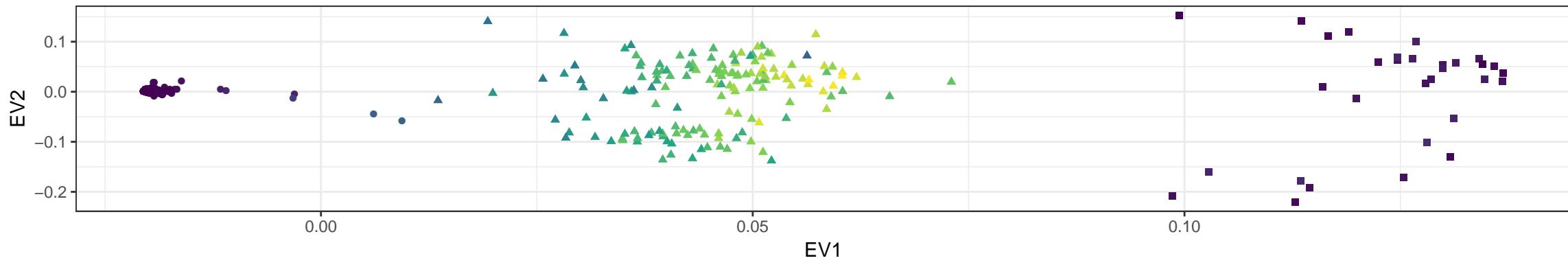


Ha412HOChr13

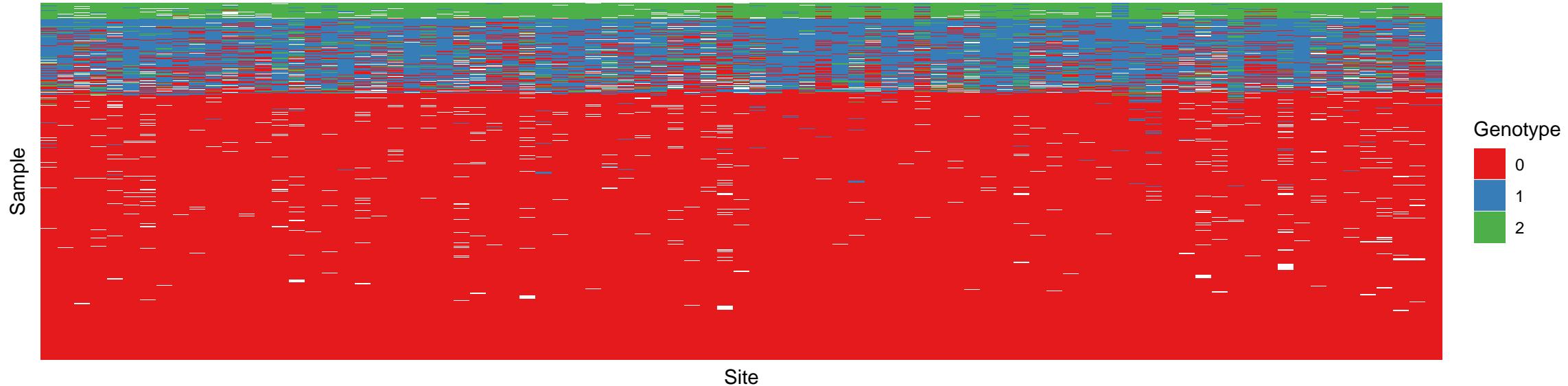
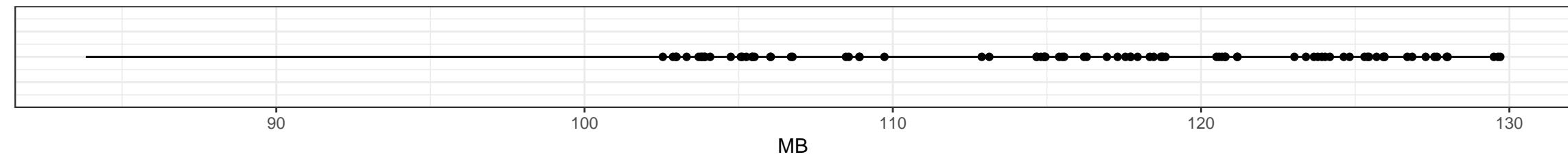


# Ha412HOChr04:83.819–129.705MB Size=45.886MB

598\_0.71 BetweenSS = 0.981046202256196

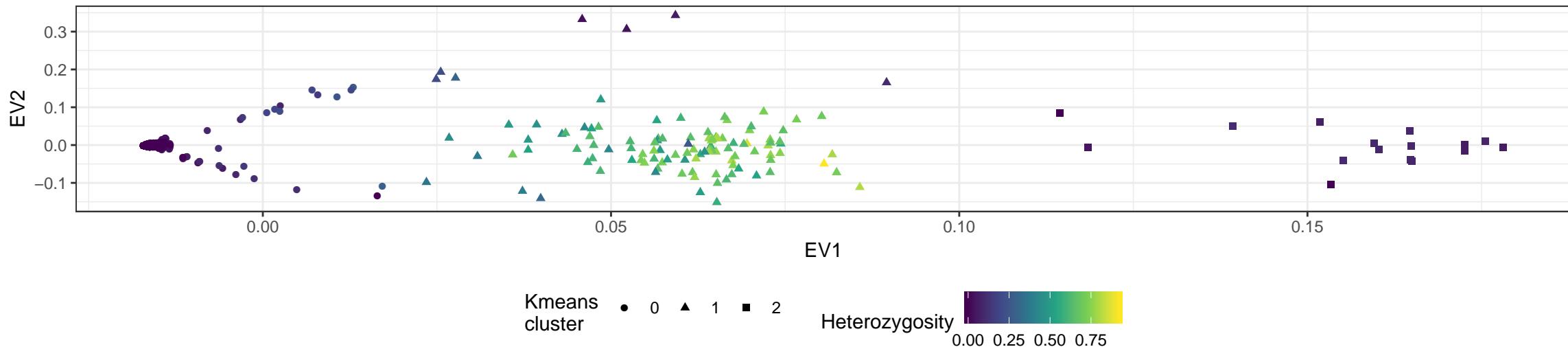


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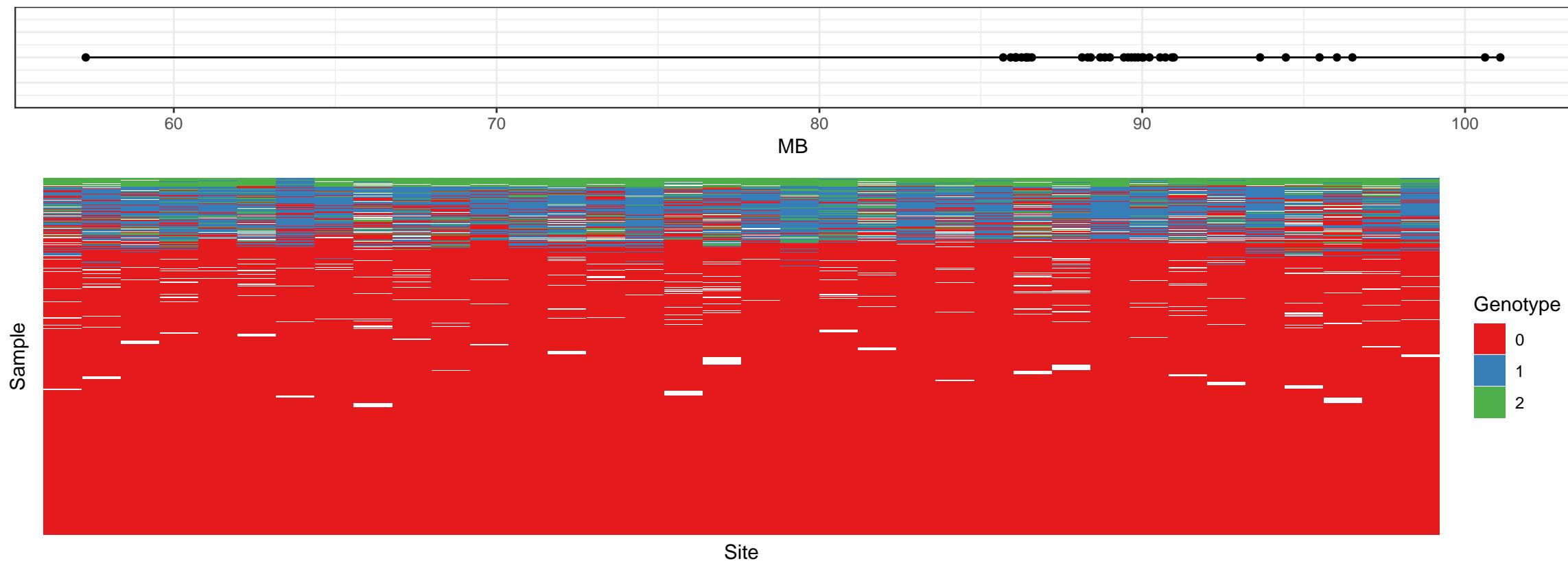


# Ha412HOChr04:57.273–101.091MB Size=43.819MB

1648\_0.58 BetweenSS = 0.964813926508369

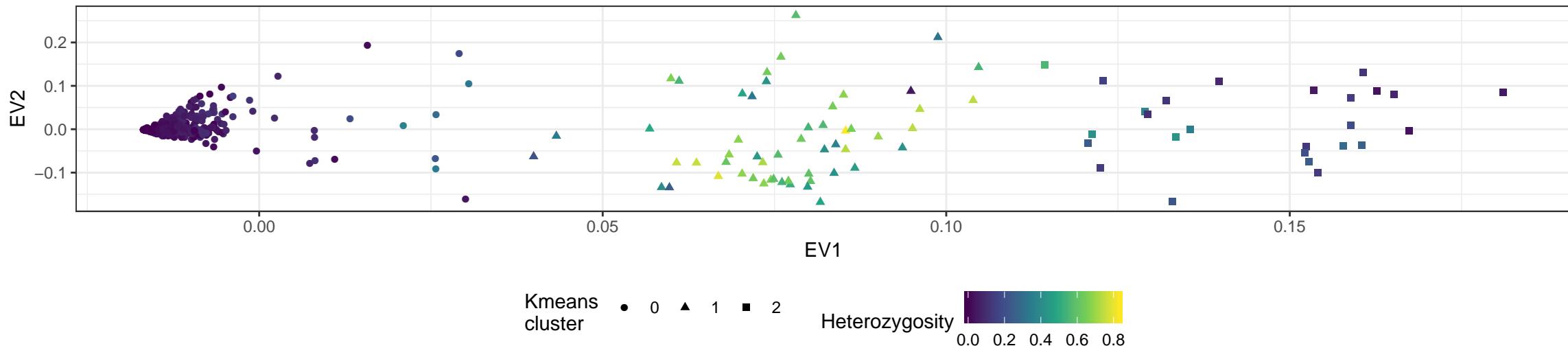


Ha412HOChr04

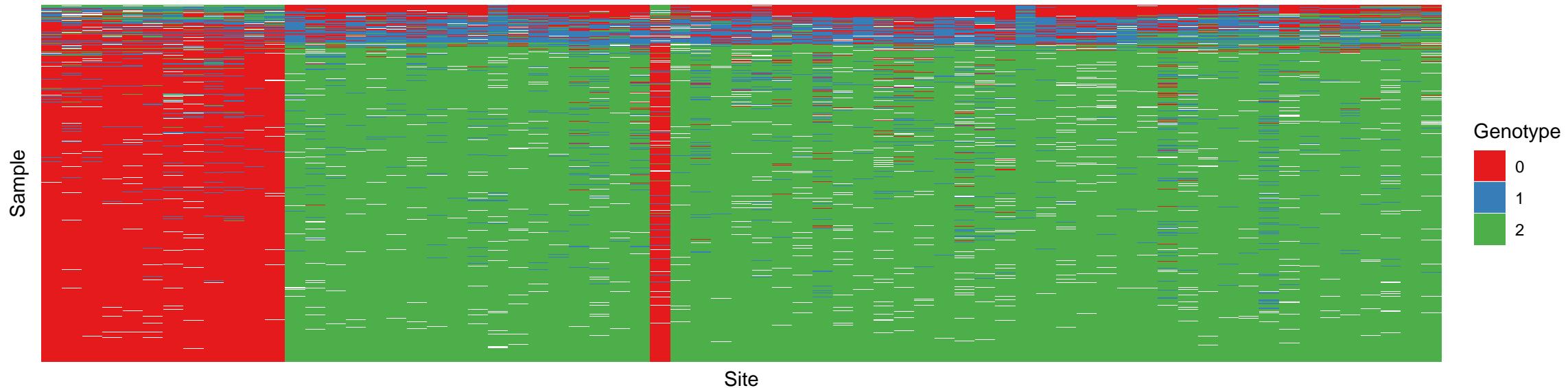
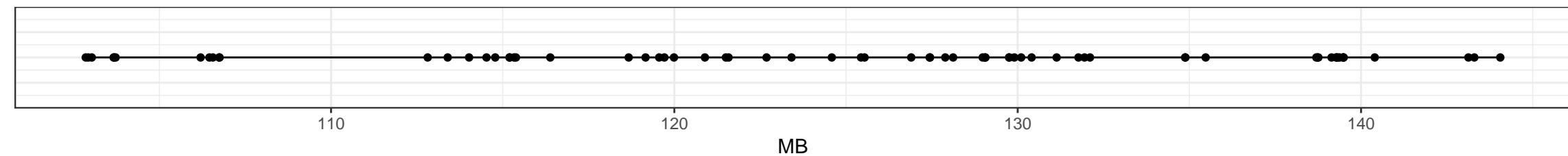


# Ha412HOChr06:102.857–144.055MB Size=41.199MB

2199\_0.43 BetweenSS = 0.962207881803199

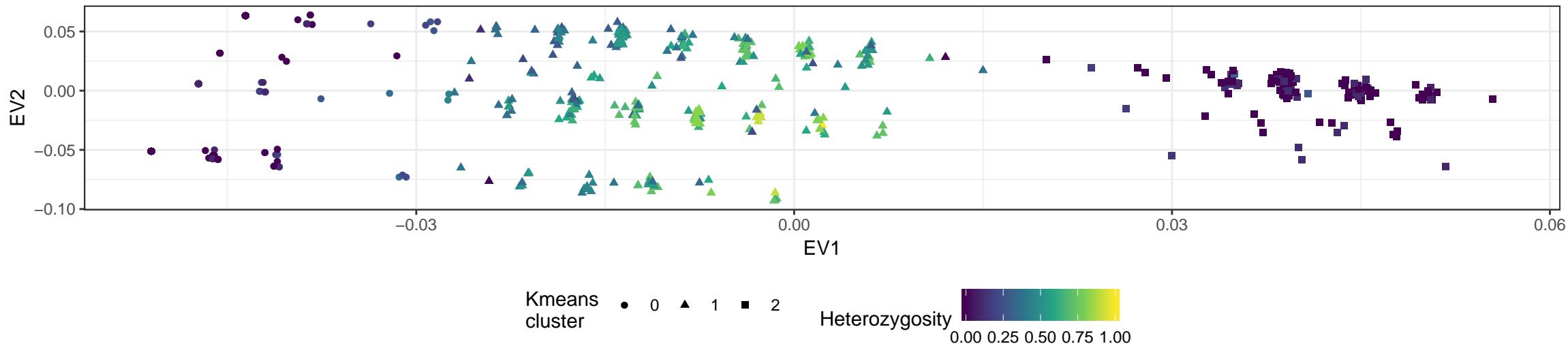


Ha412HOChr06

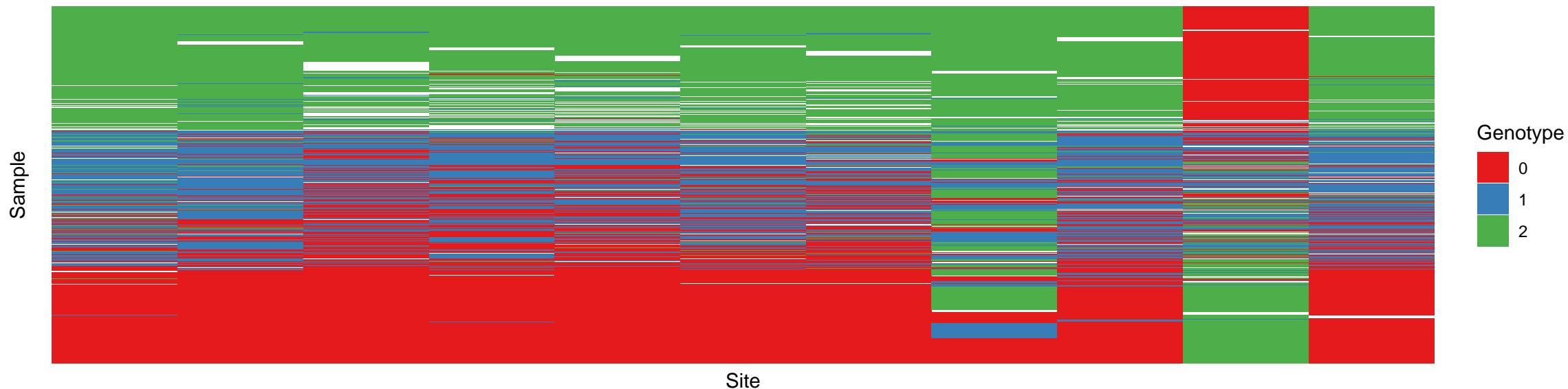


# Ha412HOChr12:108.318–144.924MB Size=36.606MB

3064\_0.29 BetweenSS = 0.960554723783283

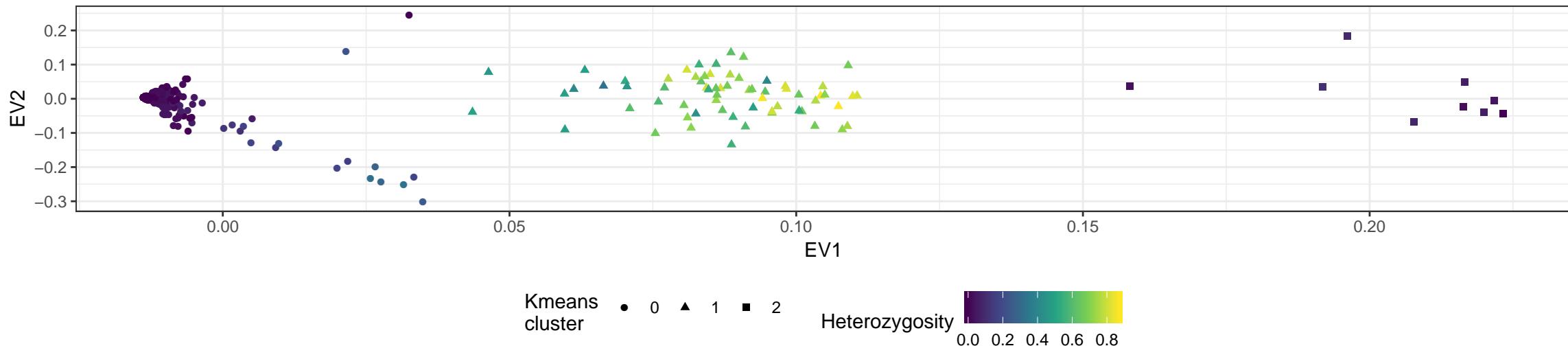


Ha412HOChr12

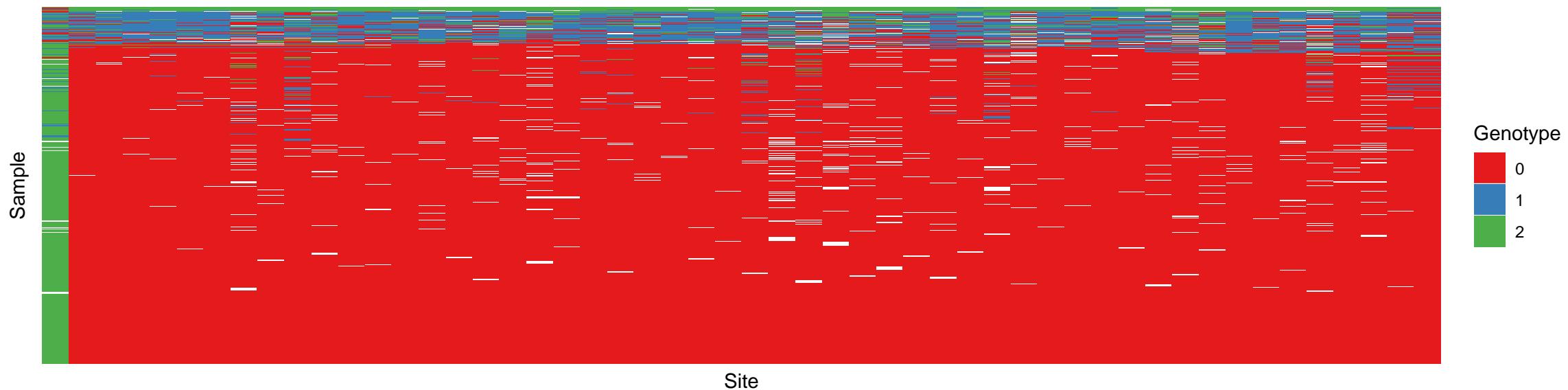
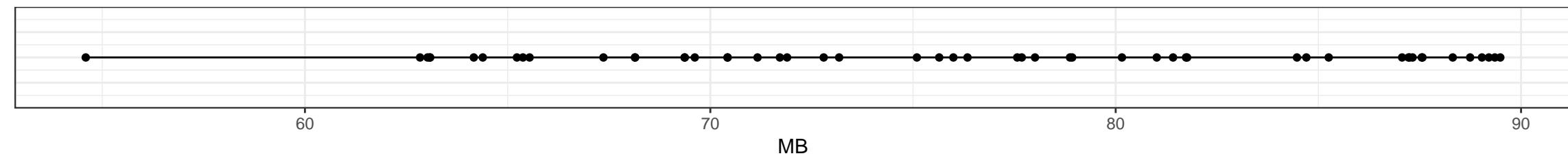


# Ha412HOChr05:54.593–89.487MB Size=34.894MB

2143\_0.43 BetweenSS = 0.962349600998915

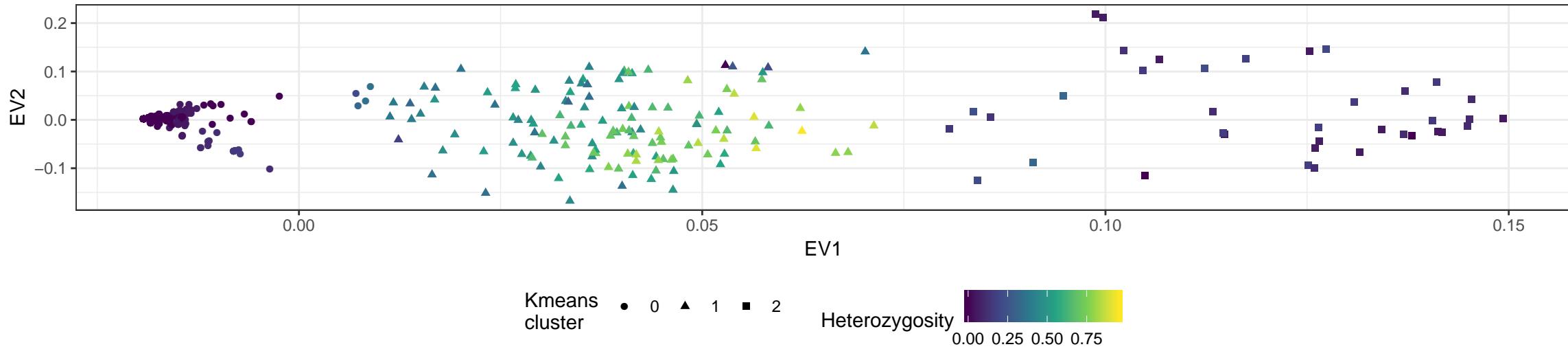


Ha412HOChr05

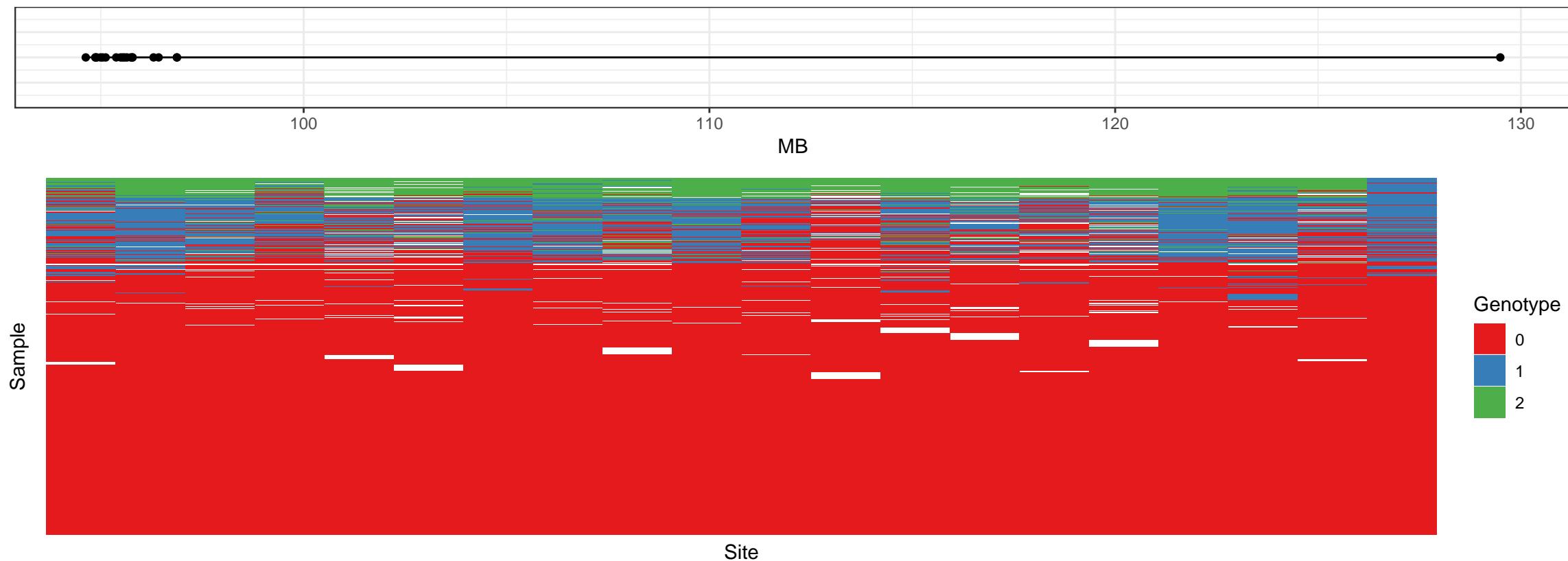


# Ha412HOChr10:94.63–129.491MB Size=34.862MB

1695\_0.57 BetweenSS = 0.956499467734678

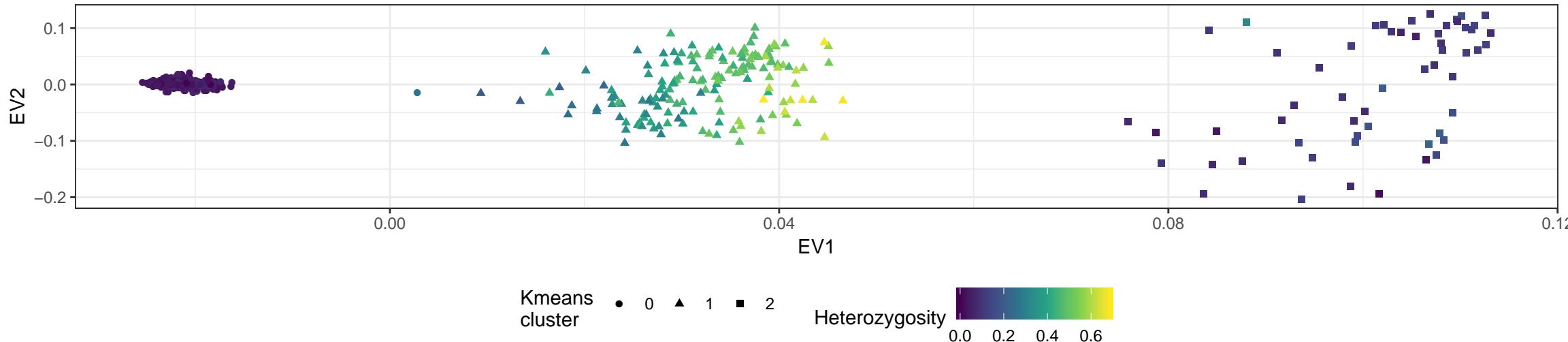


Ha412HOChr10

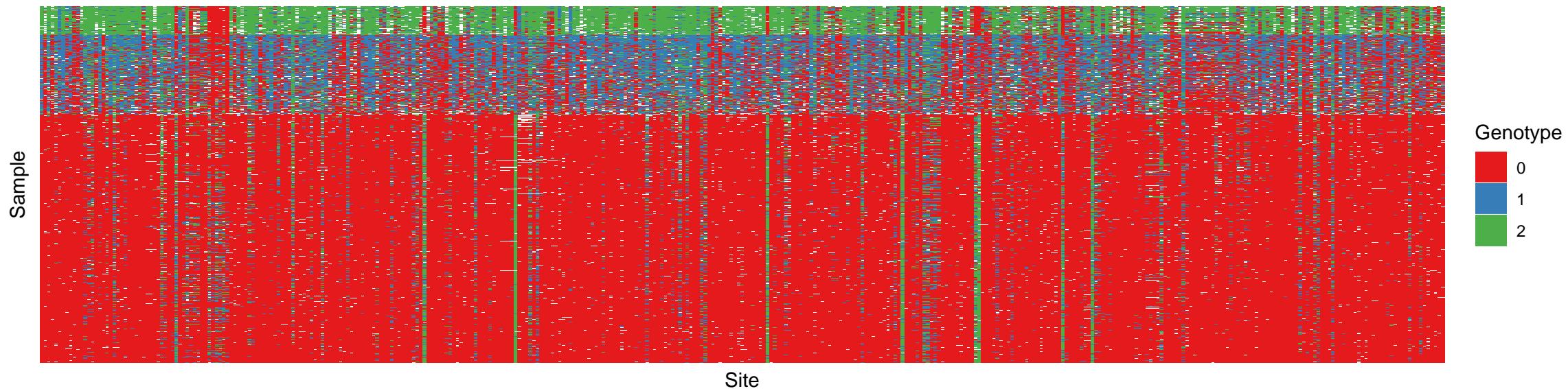
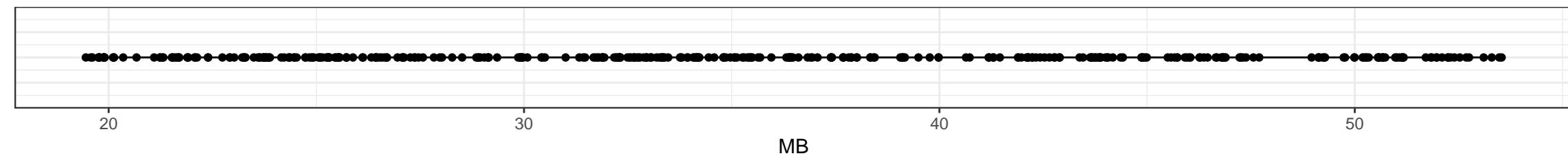


# Ha412HOChr11:19.451–53.534MB Size=34.084MB

2852\_0.24 BetweenSS = 0.985259996527573

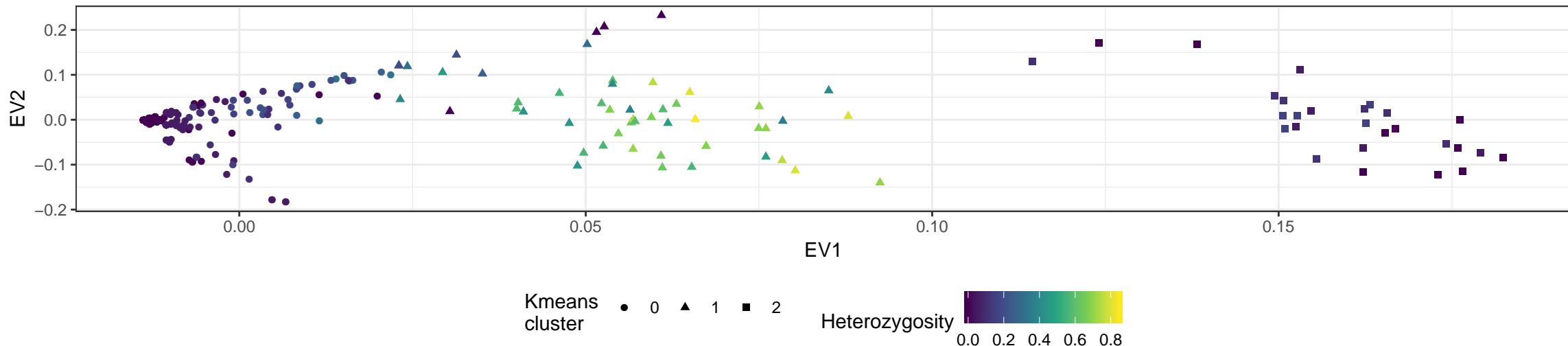


Ha412HOChr11

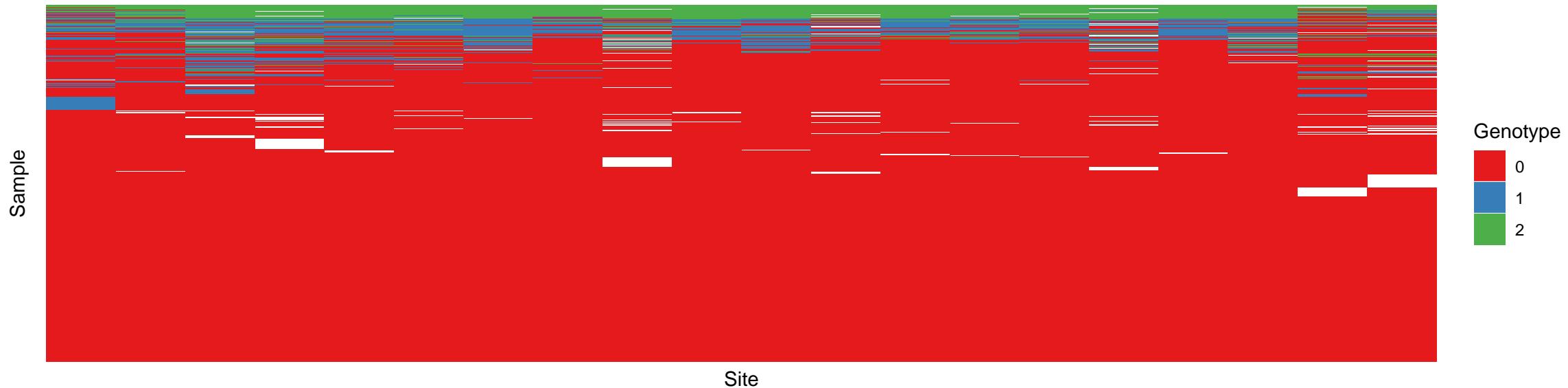
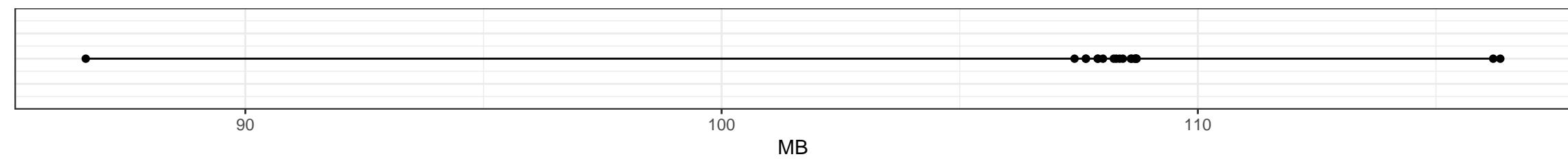


# Ha412HOChr07:86.649–116.35MB Size=29.702MB

2023\_0.39 BetweenSS = 0.958769515615399

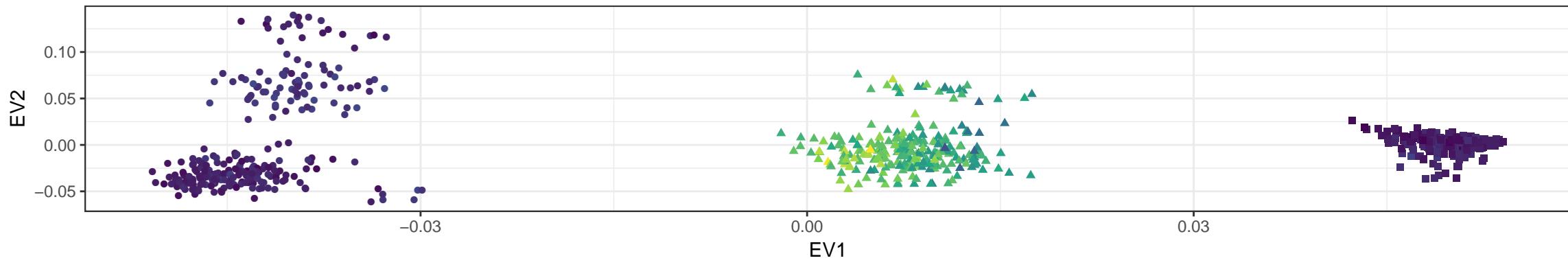


Ha412HOChr07

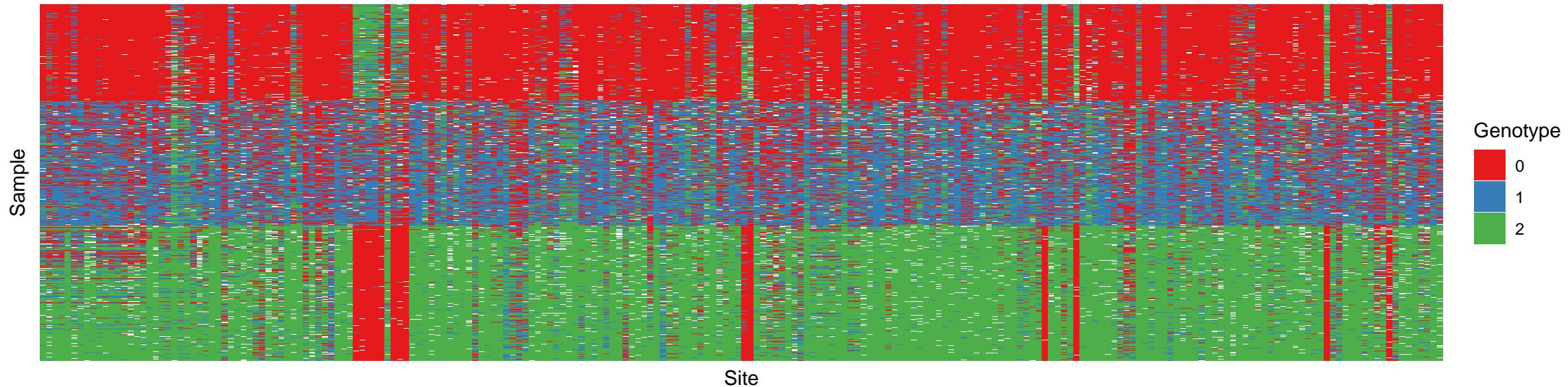
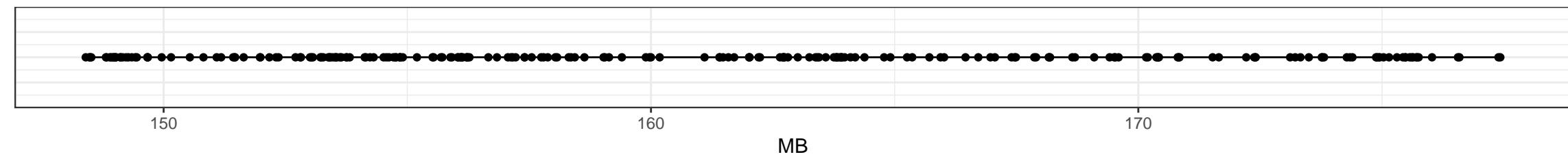


# Ha412HOChr05:148.402–177.427MB Size=29.025MB

2193\_0.42 BetweenSS = 0.990677092088632

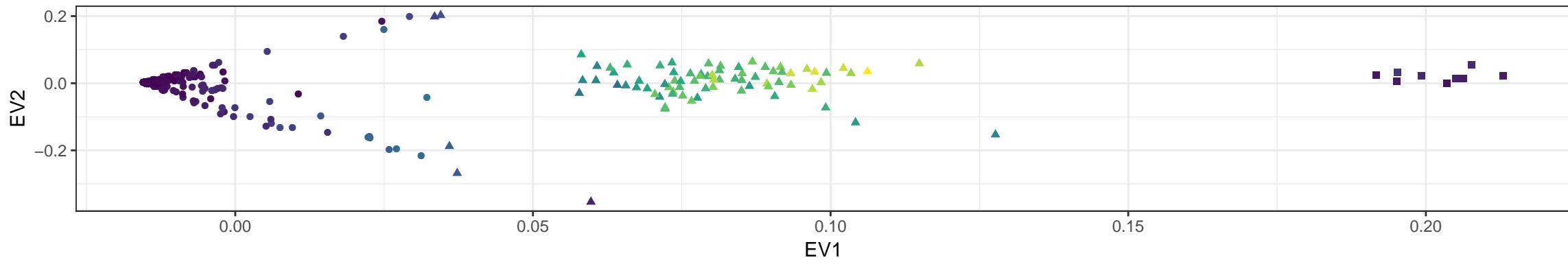


Ha412HOChr05

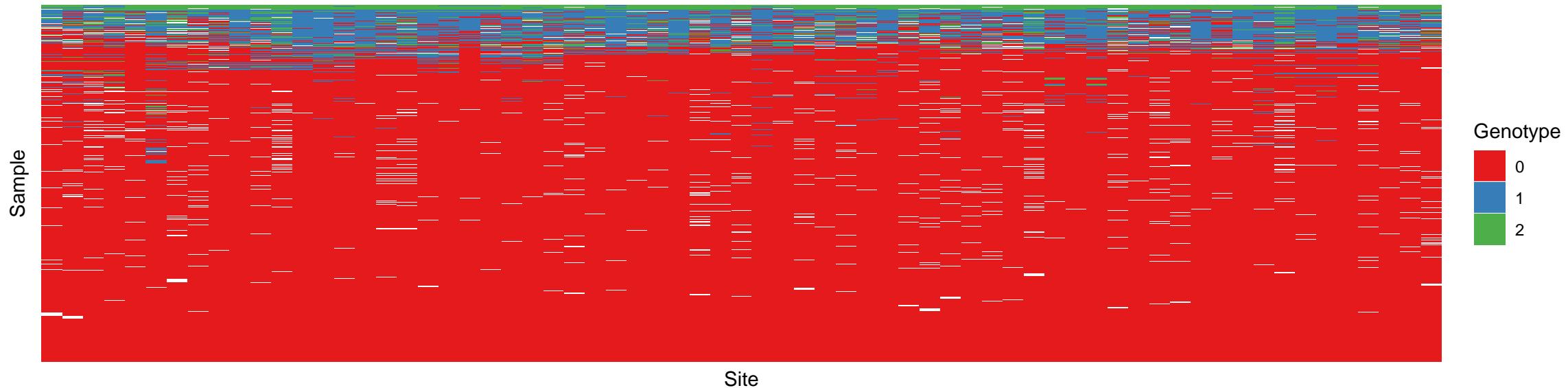
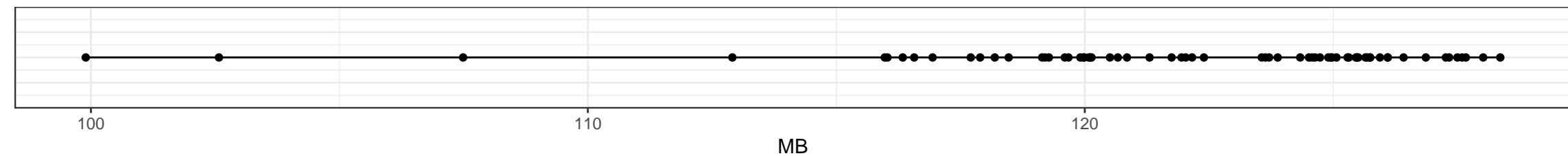


# Ha412HOChr04:99.896–128.361MB Size=28.466MB

2149\_0.5 BetweenSS = 0.95126745724445

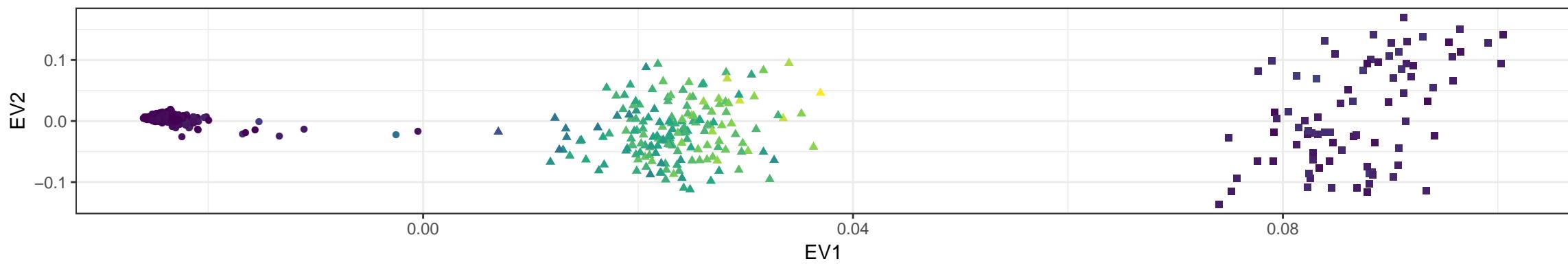


Ha412HOChr04

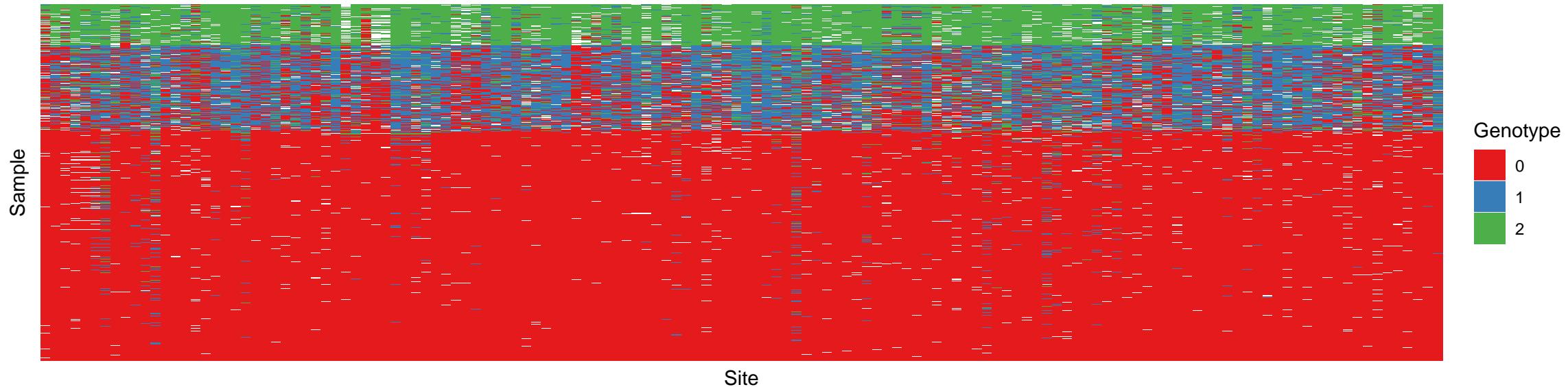
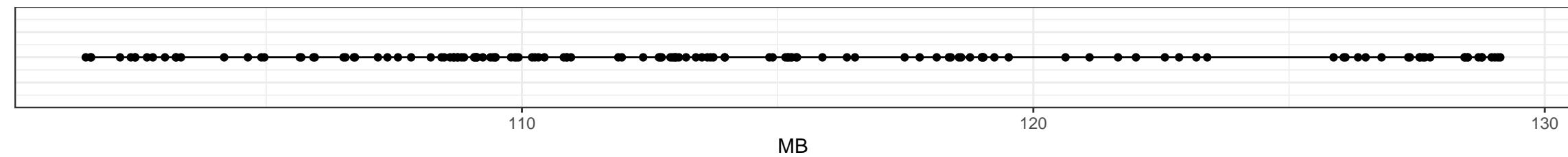


# Ha412HOChr14:101.473–129.13MB Size=27.657MB

1129\_0.56 BetweenSS = 0.990891933169363

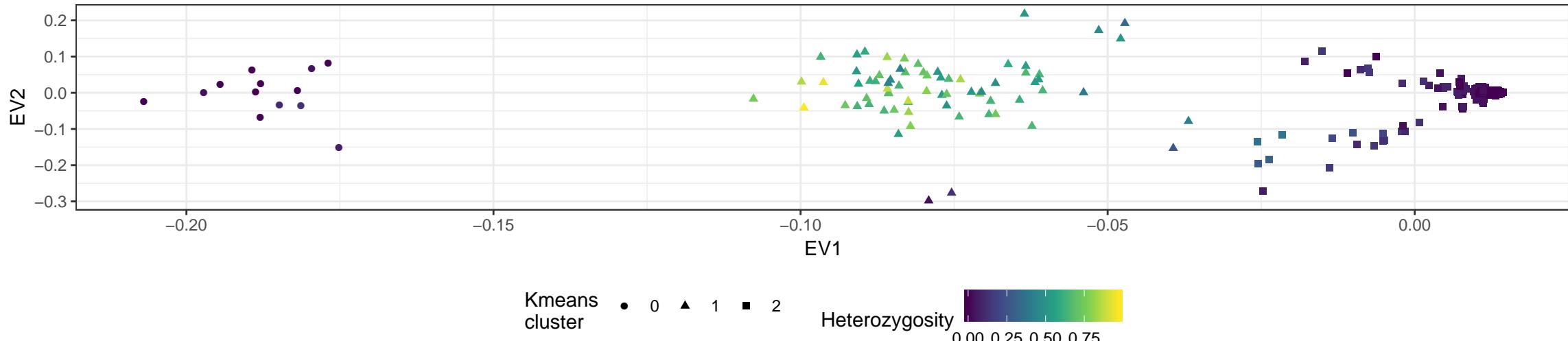


Ha412HOChr14

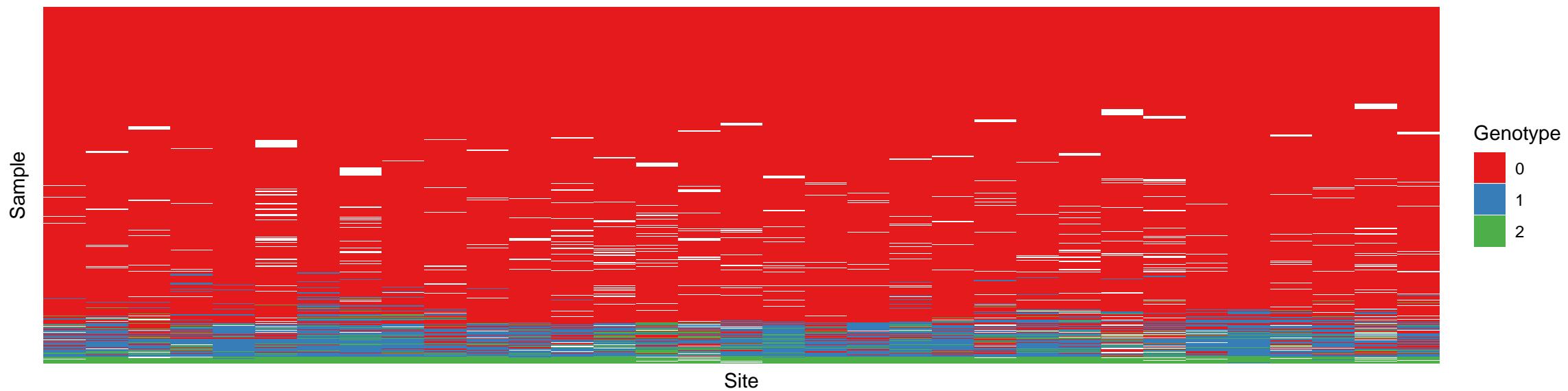
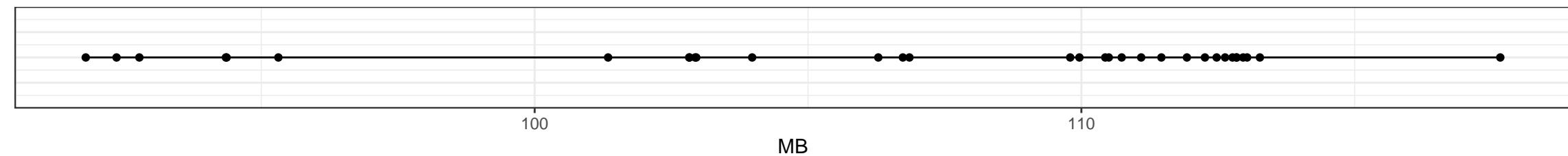


# Ha412HOChr11:91.789–117.663MB Size=25.874MB

1331\_0.58 BetweenSS = 0.967274100291428

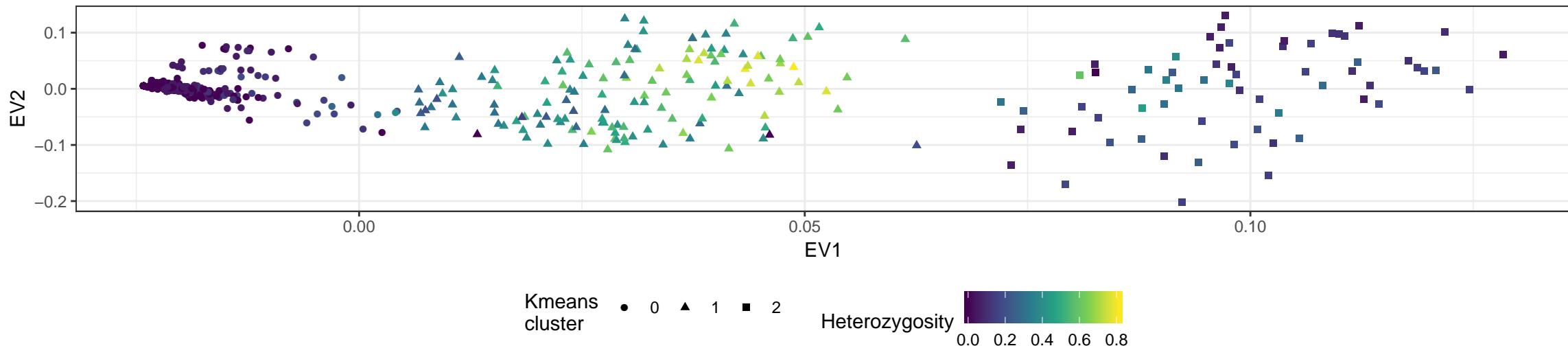


Ha412HOChr11

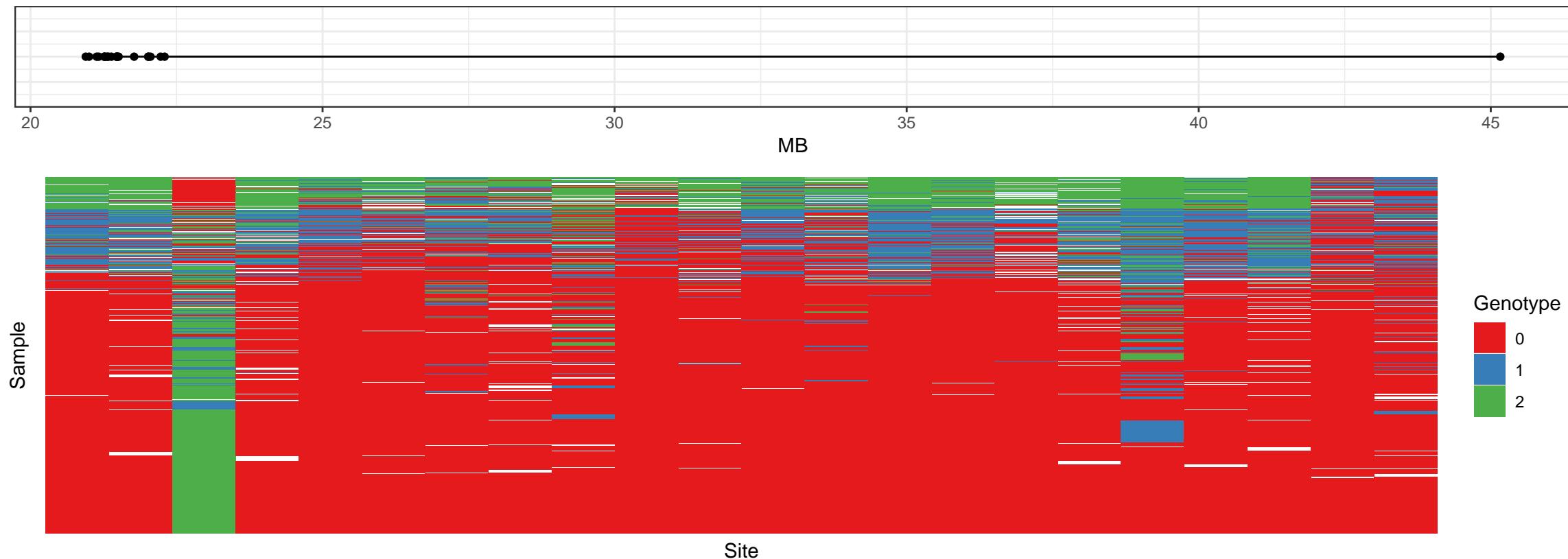


# Ha412HOChr05:20.946–45.163MB Size=24.217MB

2721\_0.3 BetweenSS = 0.956817828804618

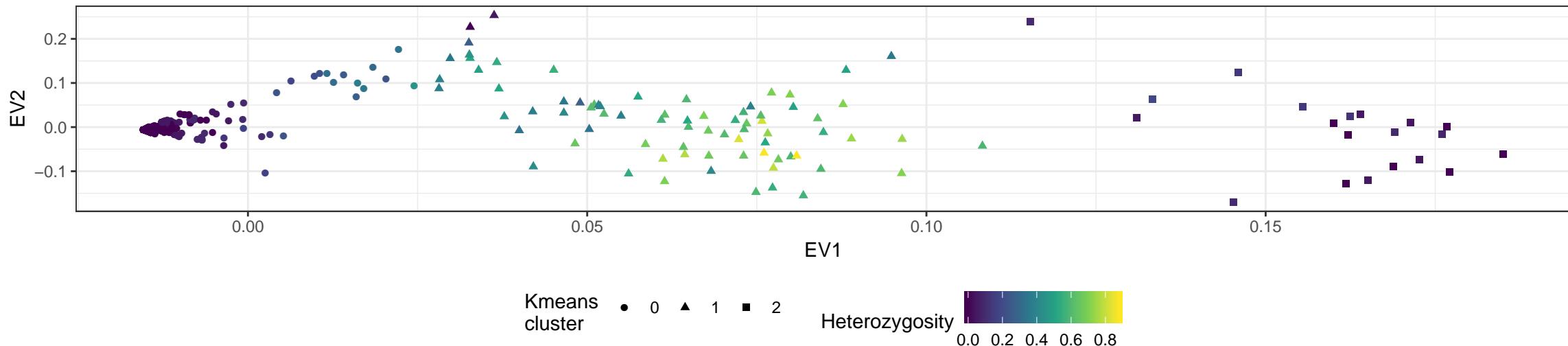


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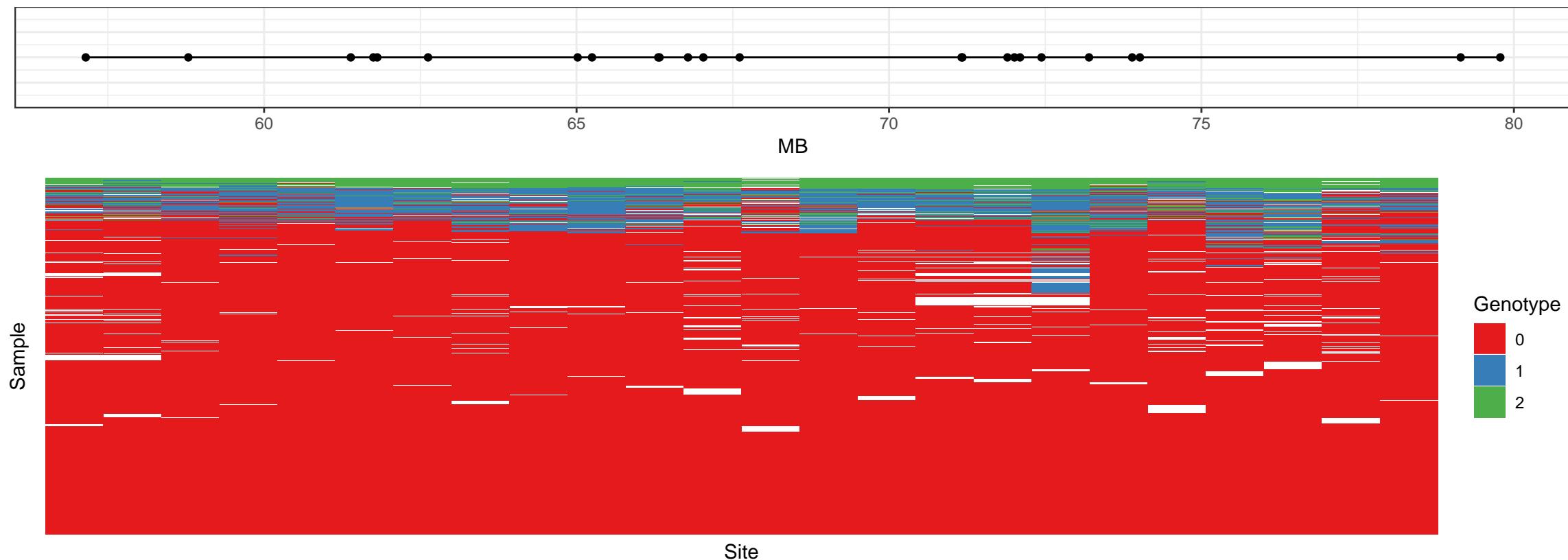


# Ha412HOChr03:57.146–79.782MB Size=22.636MB

1199\_0.56 BetweenSS = 0.951033118628817

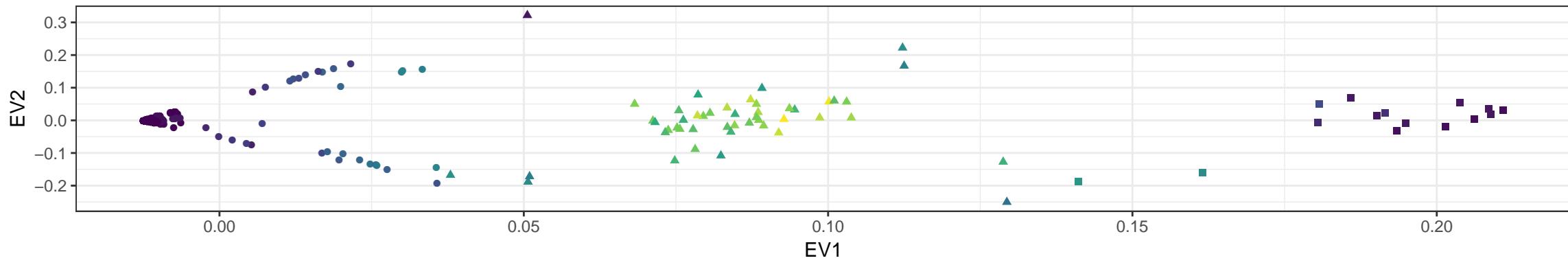


Ha412HOChr03

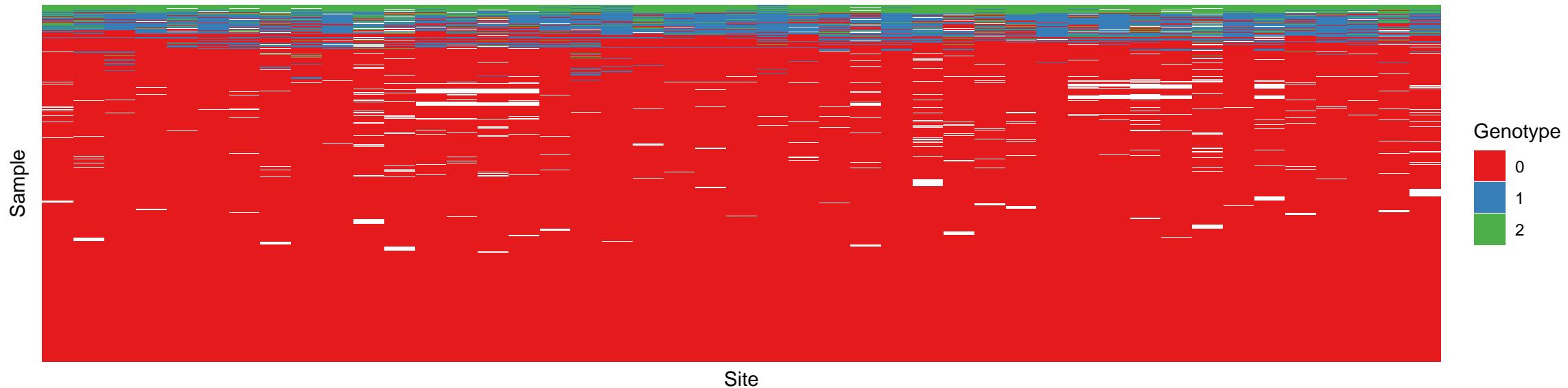
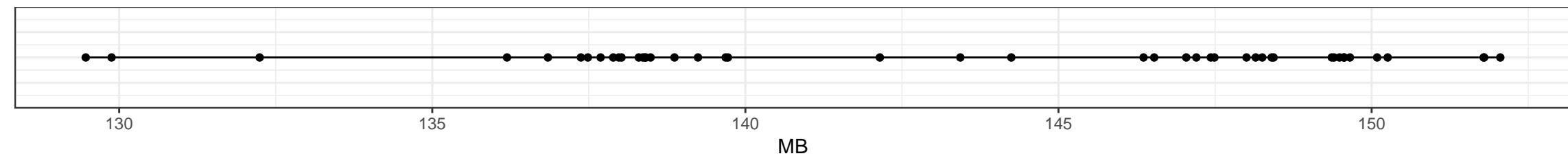


# Ha412HOChr12:129.467–152.054MB Size=22.588MB

1341\_0.64 BetweenSS = 0.951338733417579

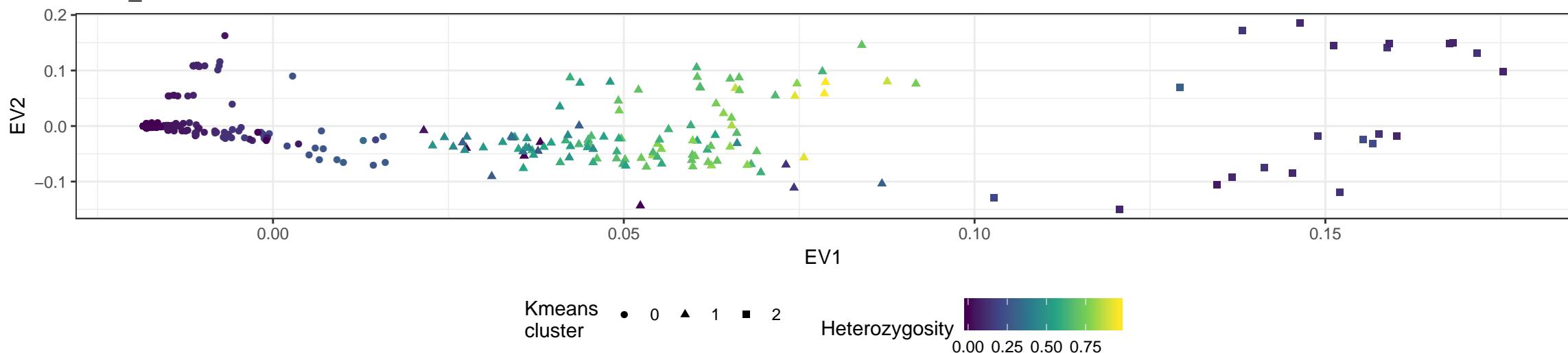


Ha412HOChr12

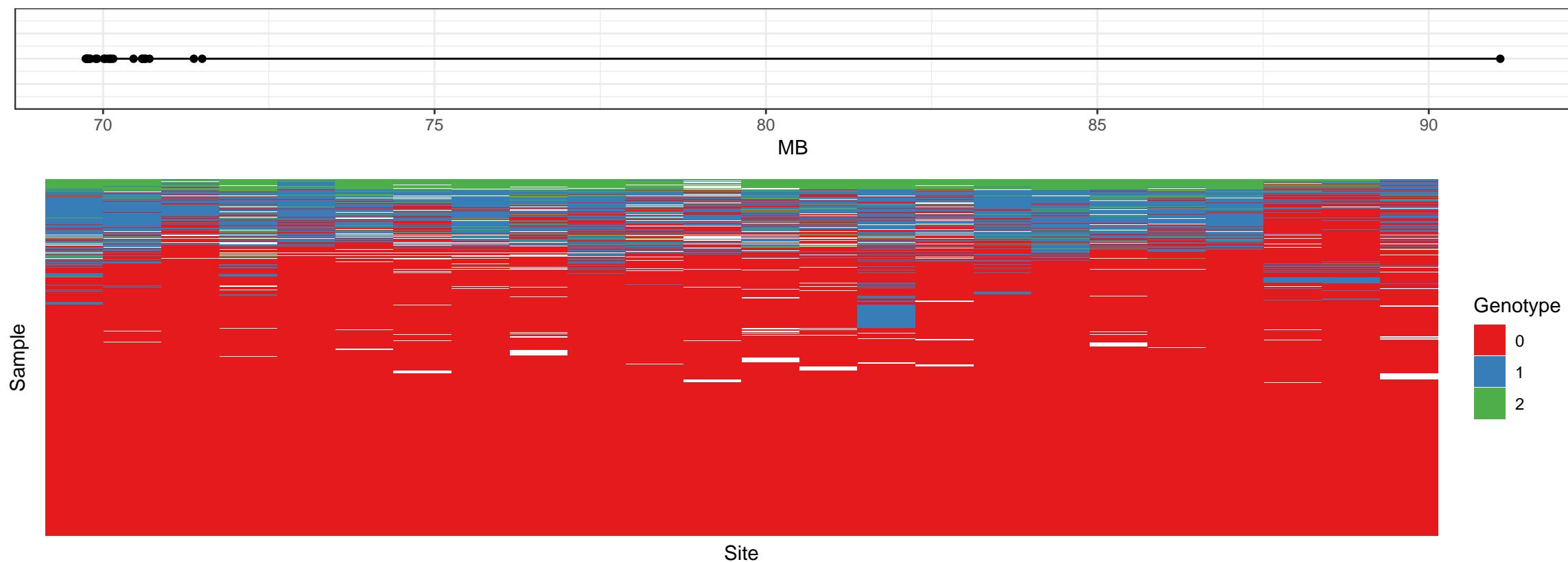


# Ha412HOChr10:69.738–91.079MB Size=21.34MB

3186\_0.26 BetweenSS = 0.950315238954118

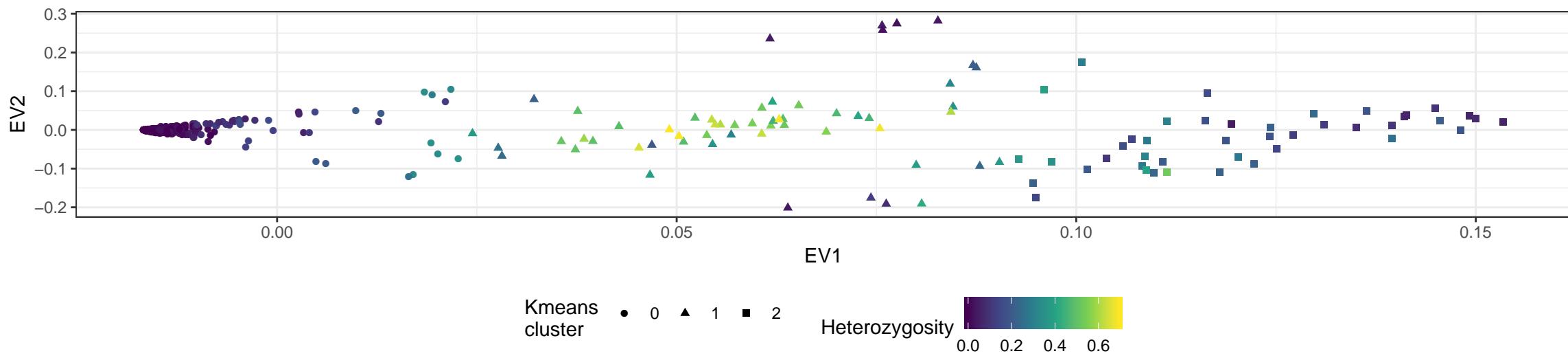


Ha412HOChr10

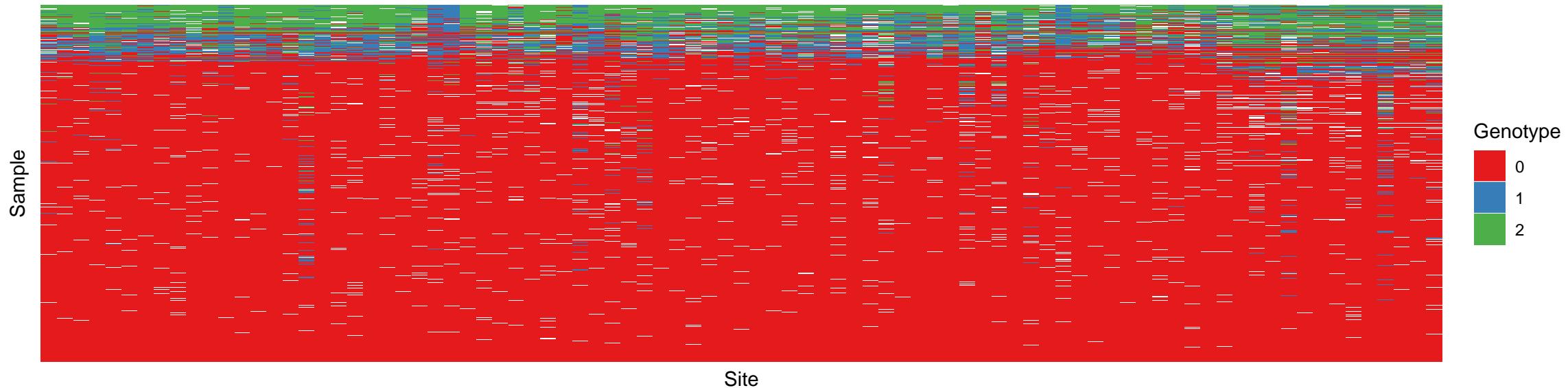
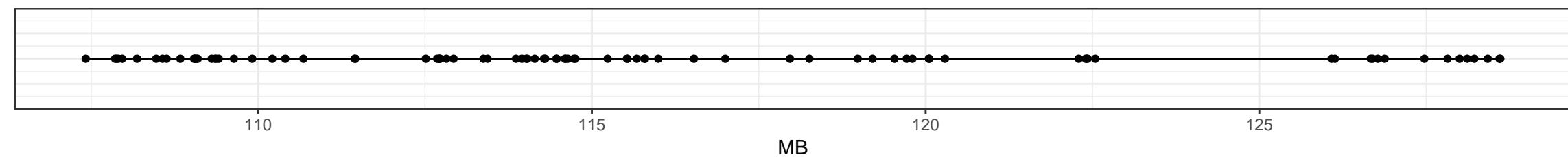


# Ha412HOChr06:107.417–128.61MB Size=21.193MB

1691\_0.54 BetweenSS = 0.952764830104231

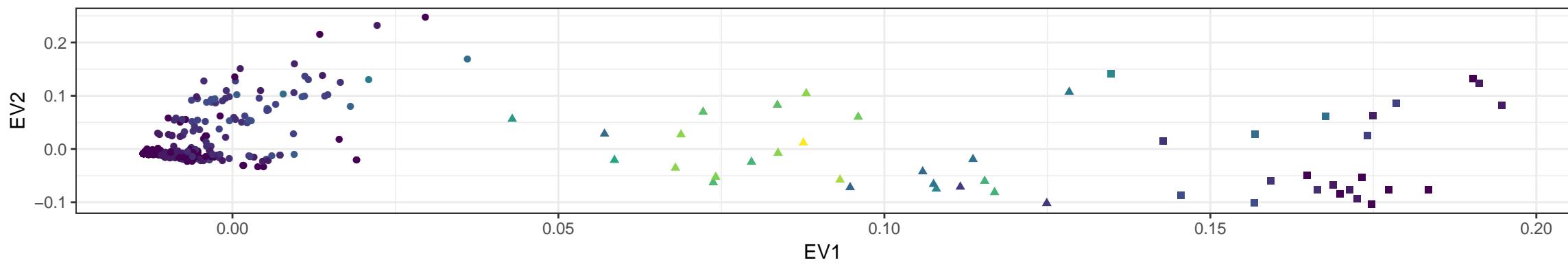


Ha412HOChr06

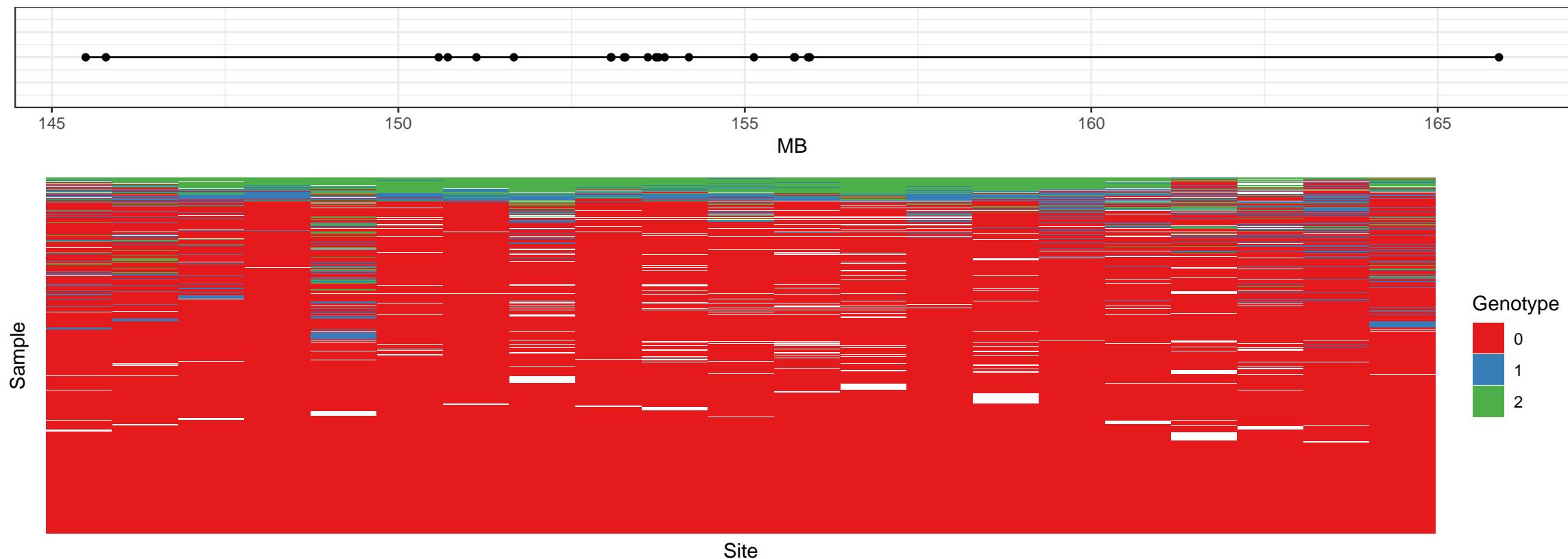


# Ha412HOChr08:145.489–165.883MB Size=20.394MB

2255\_0.32 BetweenSS = 0.954295557047558

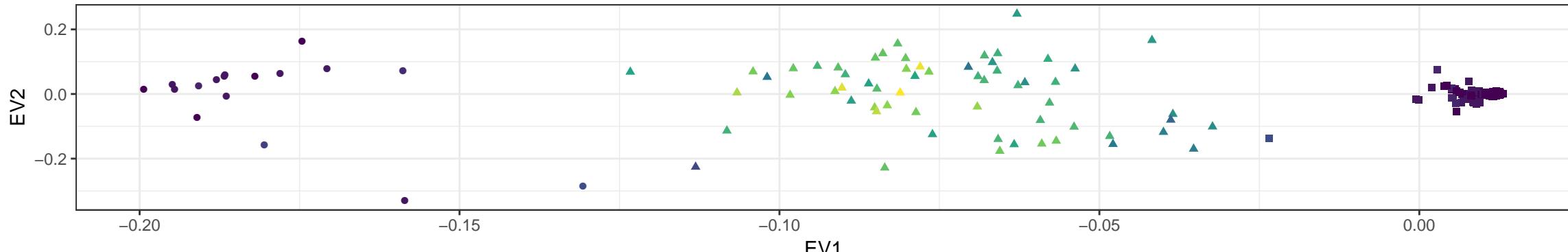


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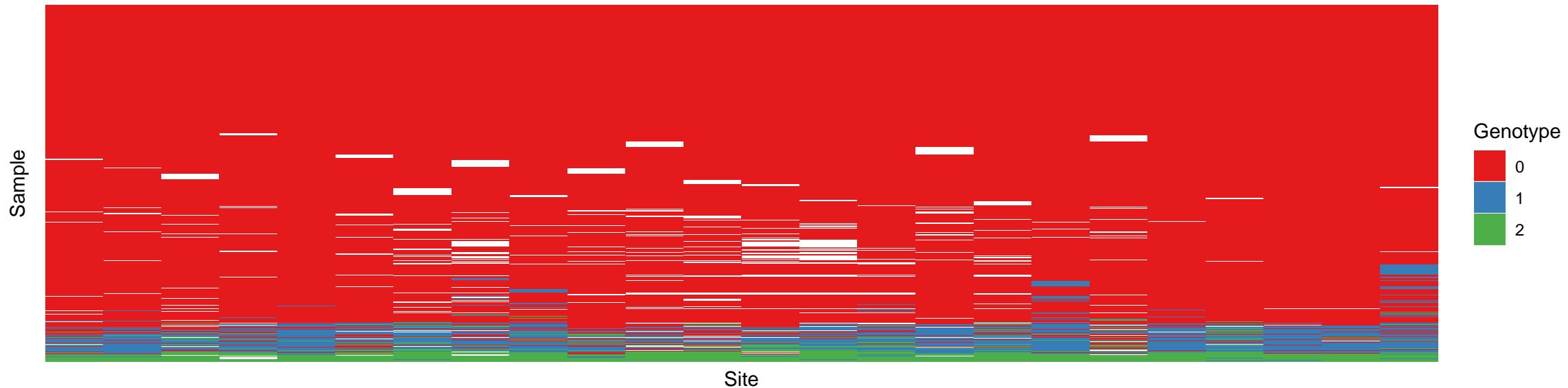
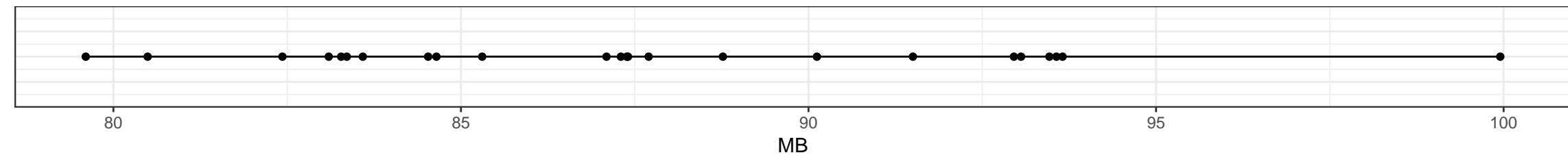


# Ha412HOChr16:79.603–99.952MB Size=20.35MB

1173\_0.6 BetweenSS = 0.967181800704736

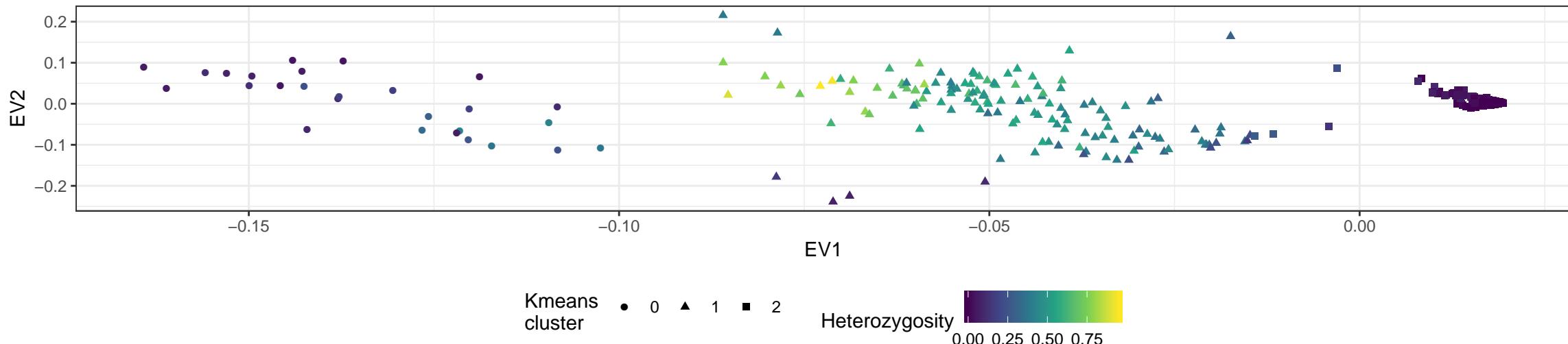


Ha412HOChr16

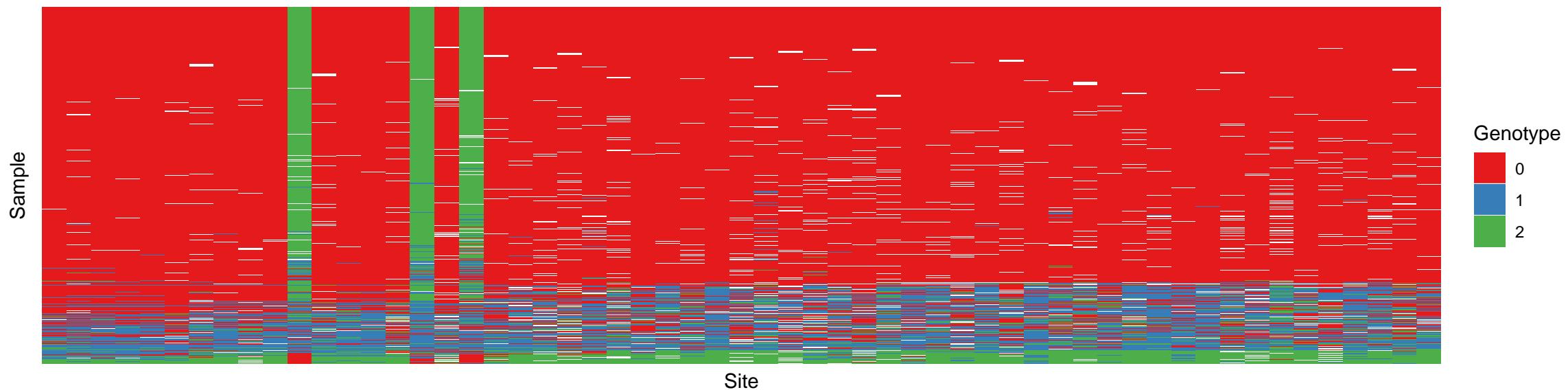
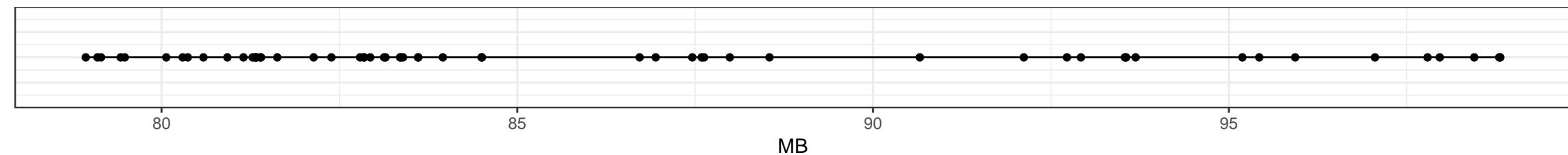


# Ha412HOChr16:78.935–98.815MB Size=19.879MB

1518\_0.54 BetweenSS = 0.951929393021072

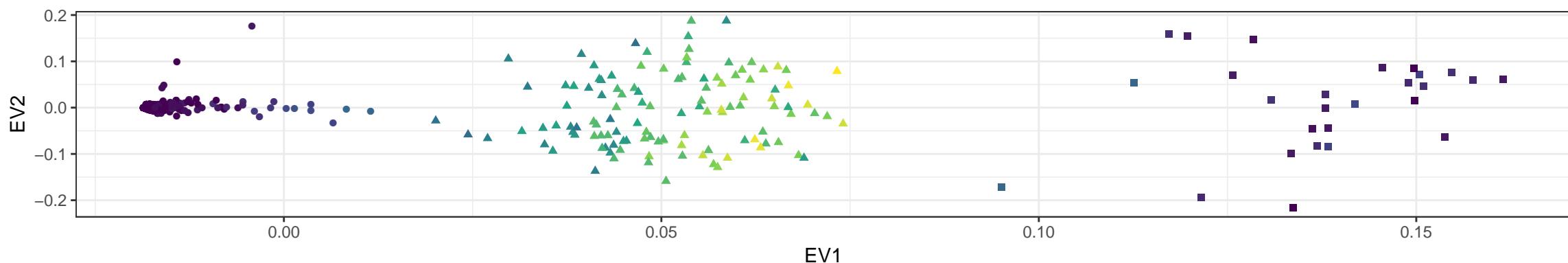


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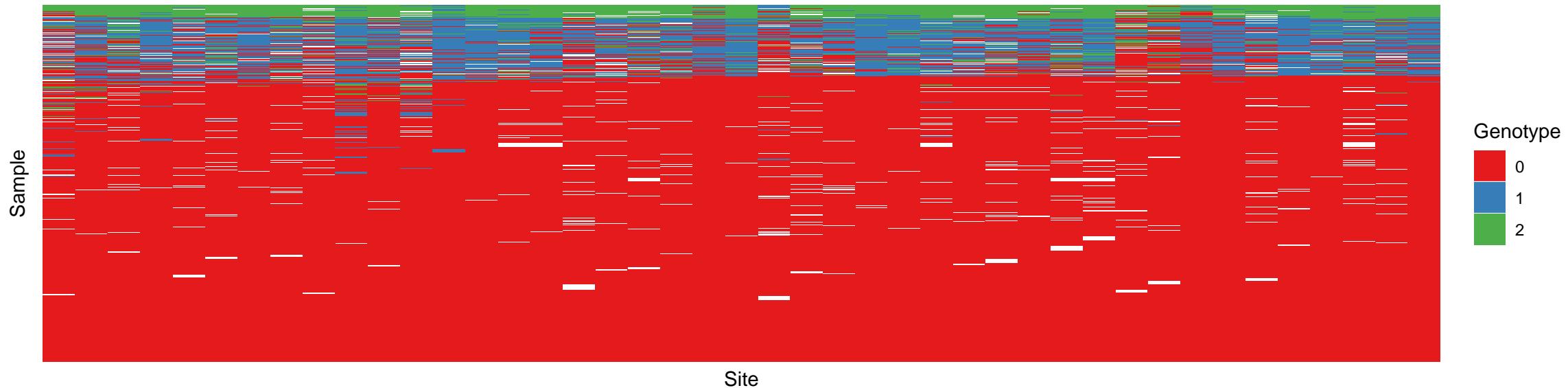
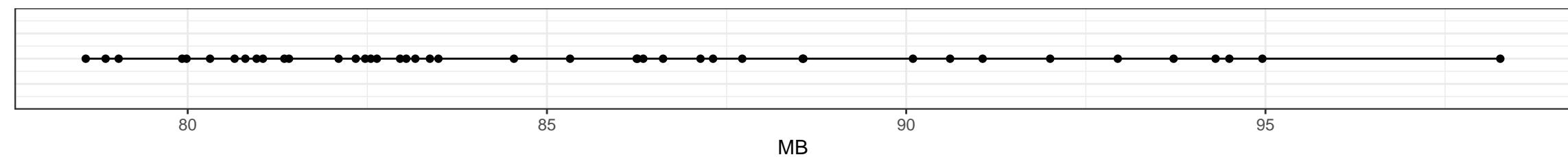


# Ha412HOChr16:78.581–98.268MB Size=19.687MB

2382\_0.38 BetweenSS = 0.972904366722971

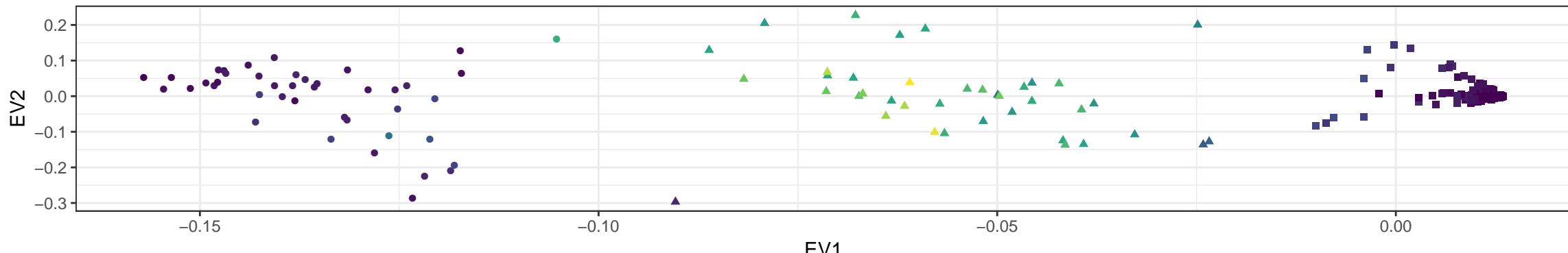


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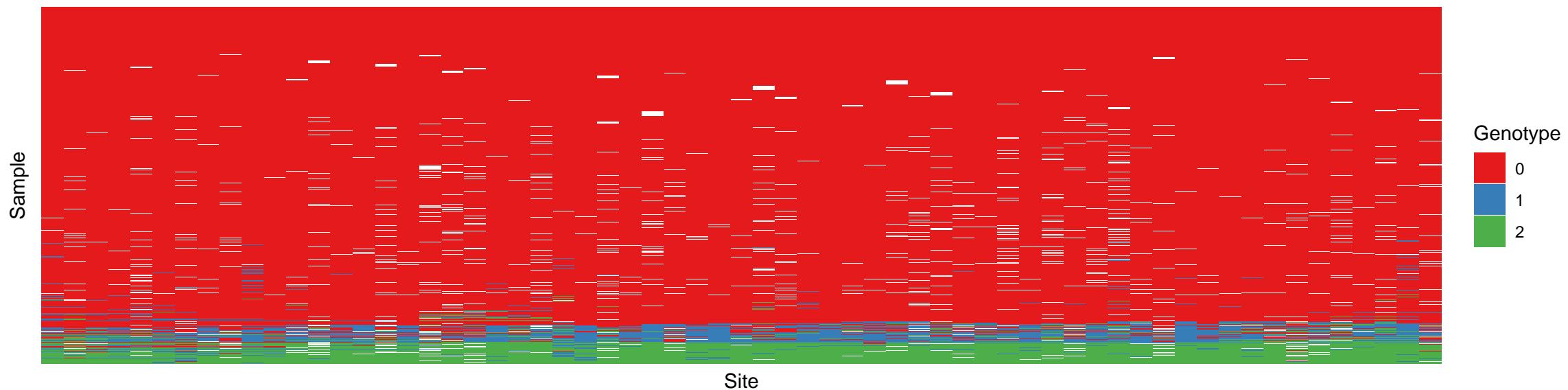
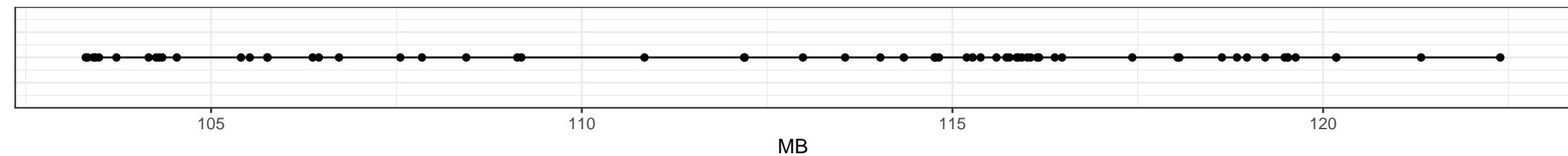


# Ha412HOChr06:103.309–122.39MB Size=19.081MB

602\_0.72 BetweenSS = 0.979679142067893

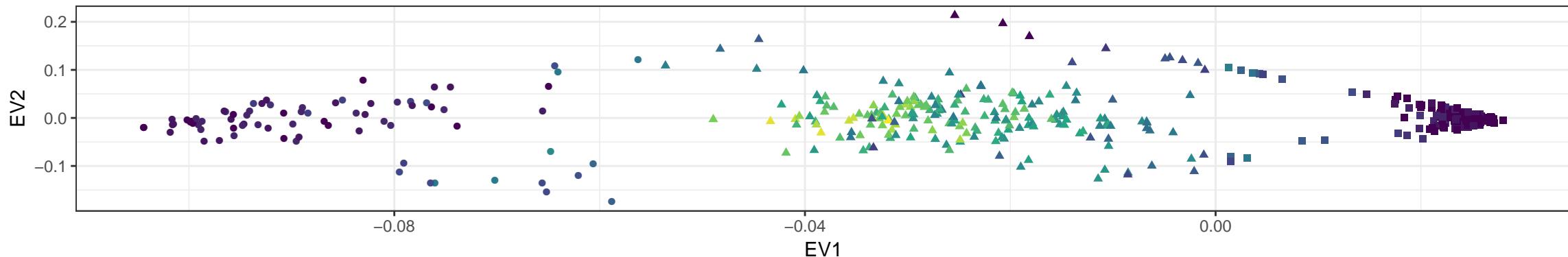


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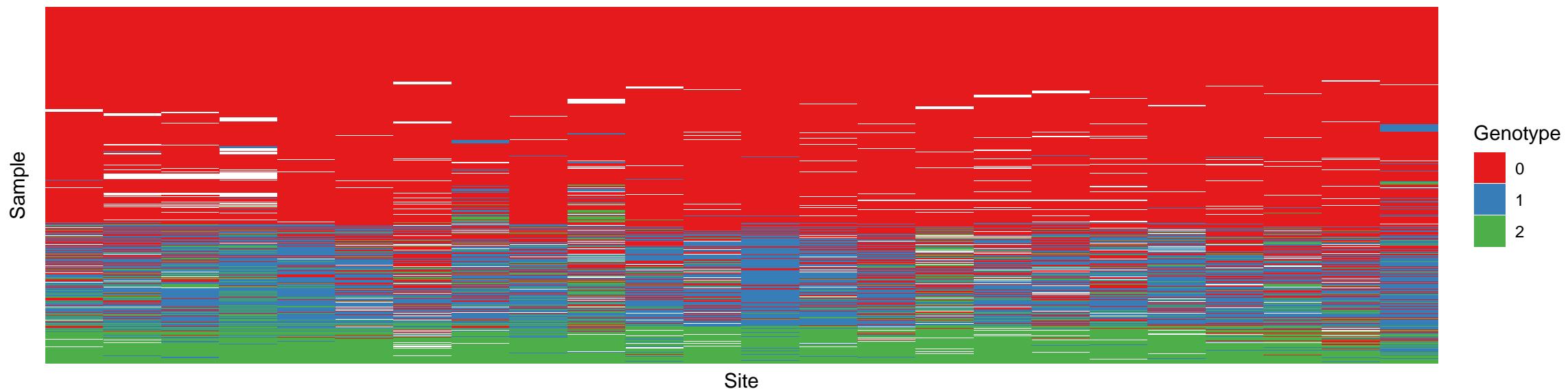
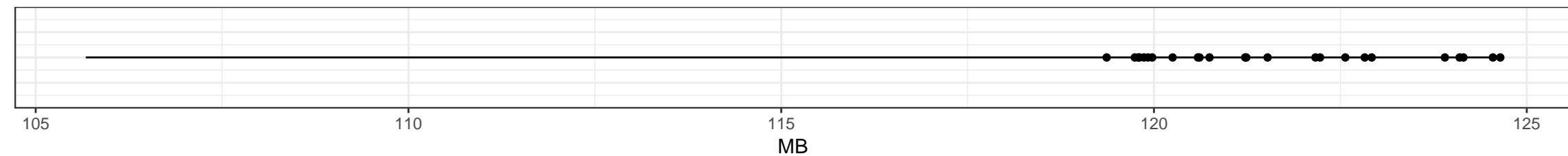


# Ha412HOChr04:105.672–124.645MB Size=18.973MB

2322\_0.47 BetweenSS = 0.957483829954218

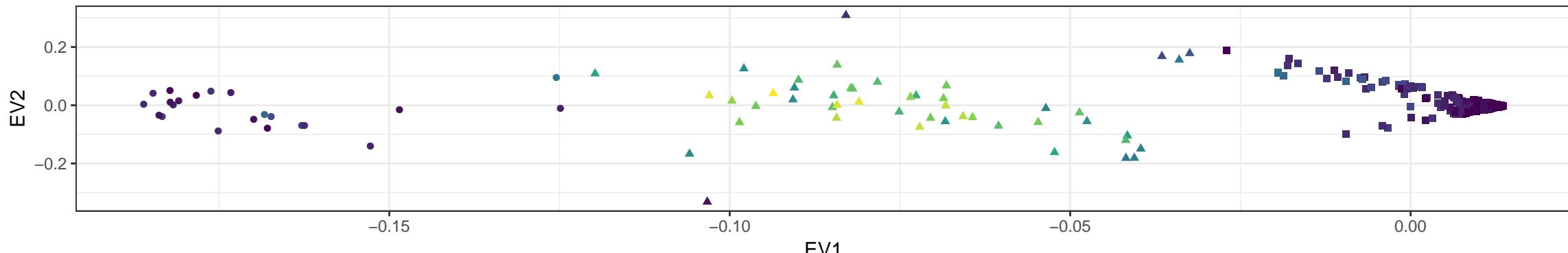


Ha412HOChr04

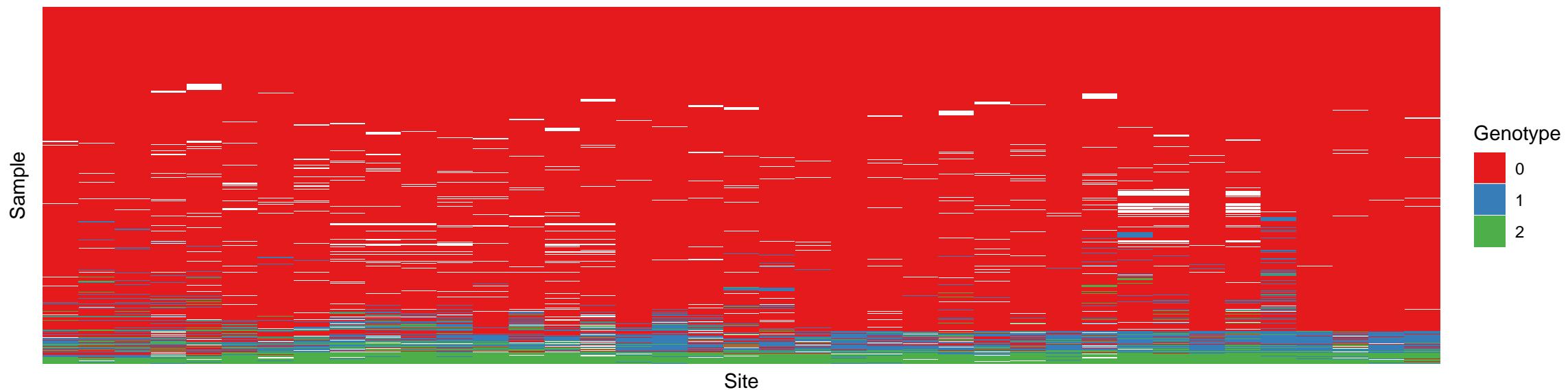
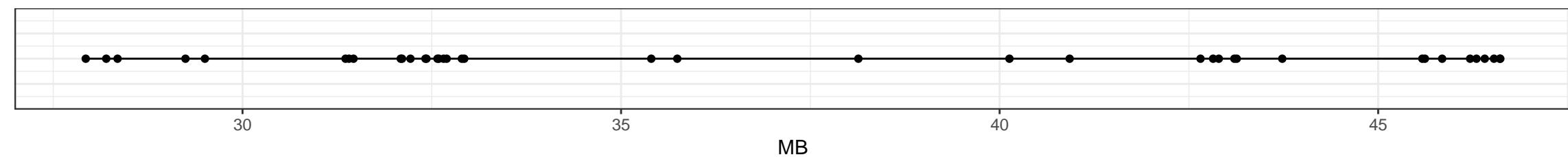


# Ha412HOChr07:27.929–46.613MB Size=18.683MB

1604\_0.49 BetweenSS = 0.954026093137001

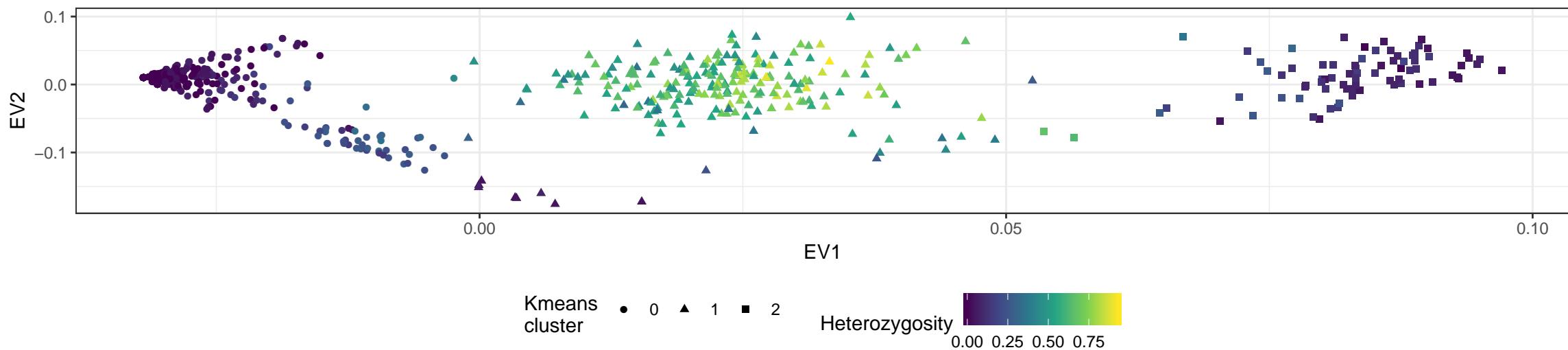


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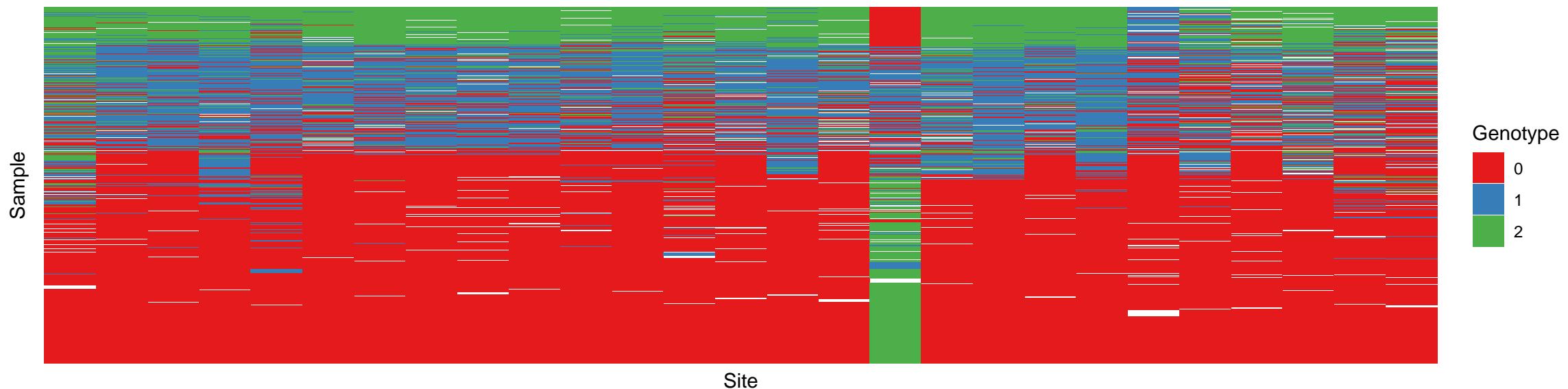
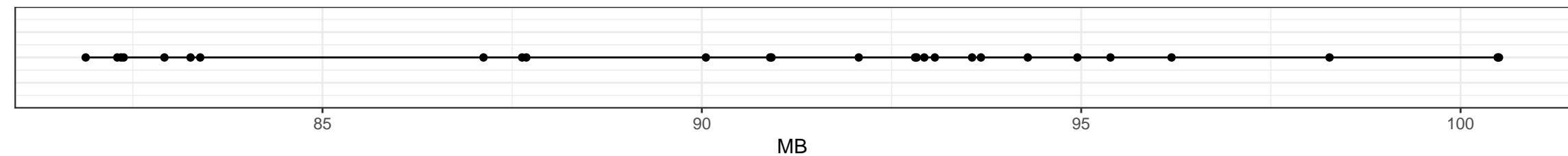


# Ha412HOChr16:81.879–100.506MB Size=18.628MB

2170\_0.42 BetweenSS = 0.956445058177424

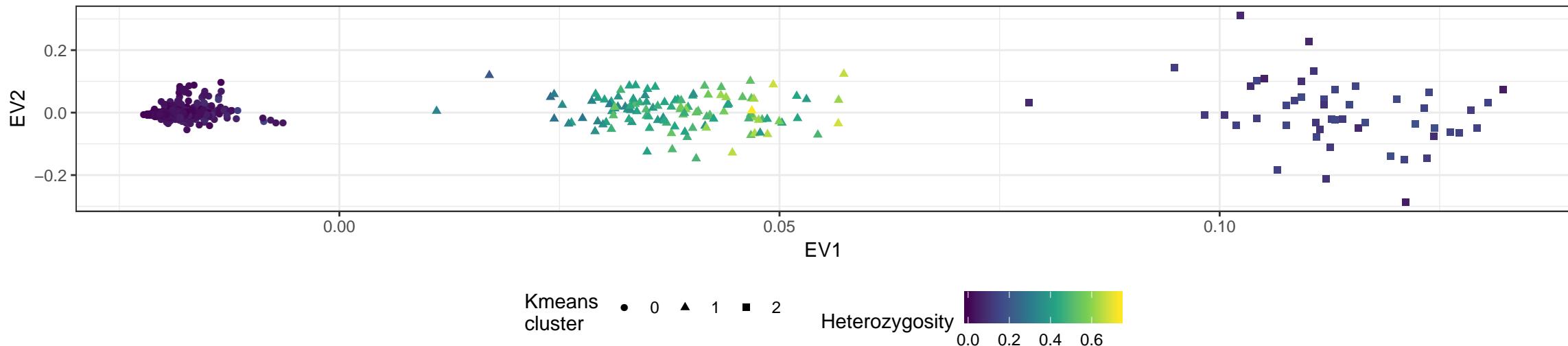


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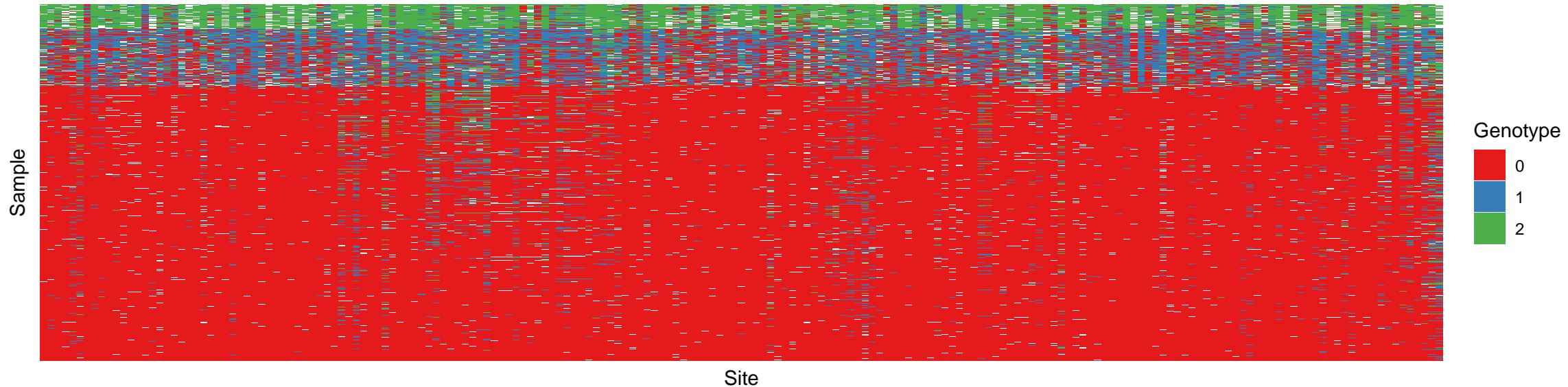
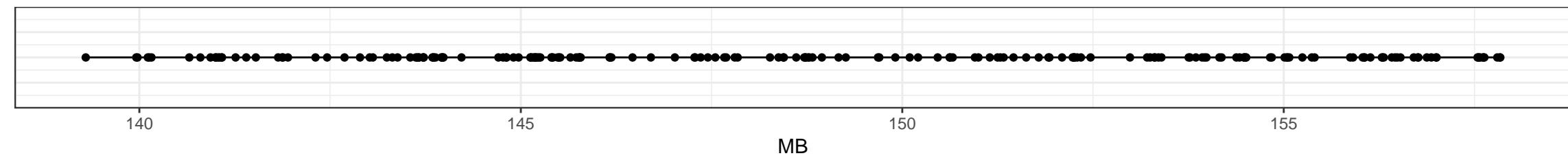


# Ha412HOChr13:139.297–157.838MB Size=18.541MB

1890\_0.39 BetweenSS = 0.984212574289246

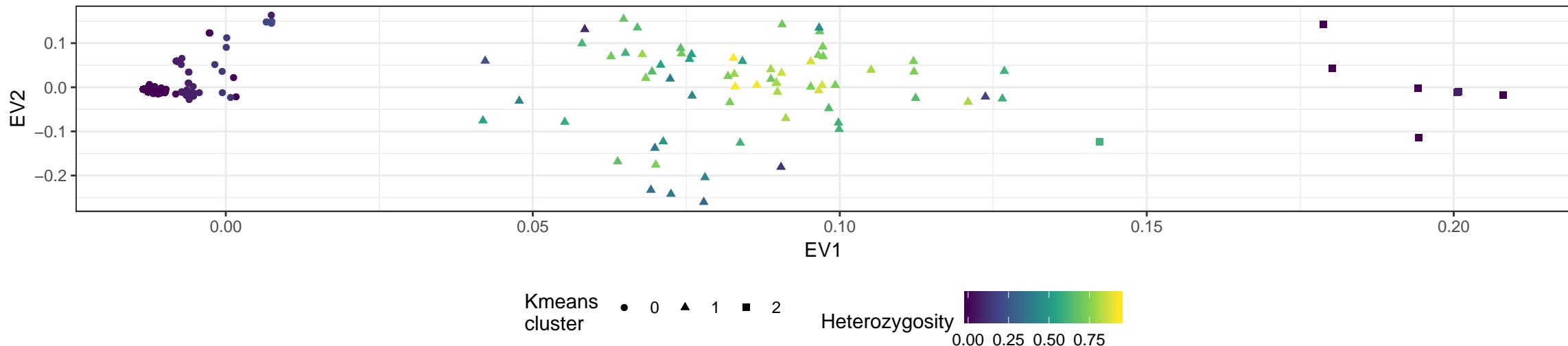


Ha412HOChr13

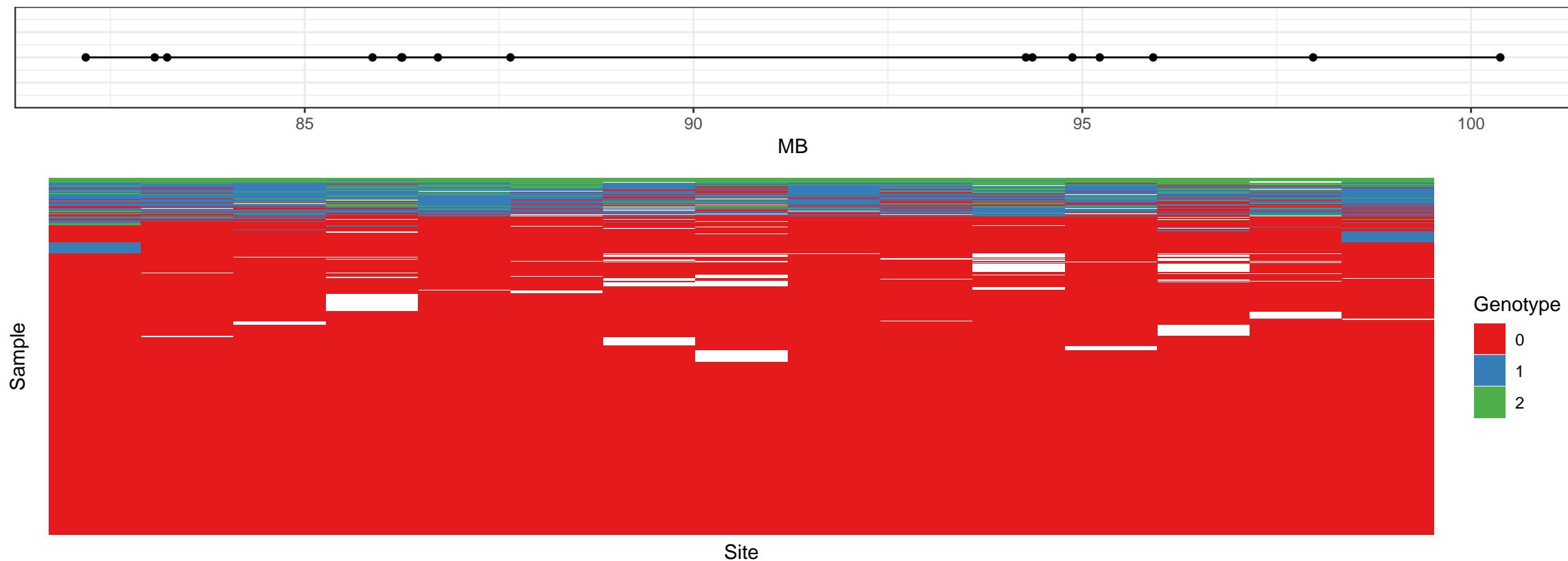


# Ha412HOChr16:82.183–100.376MB Size=18.193MB

1587\_0.53 BetweenSS = 0.96675779308846

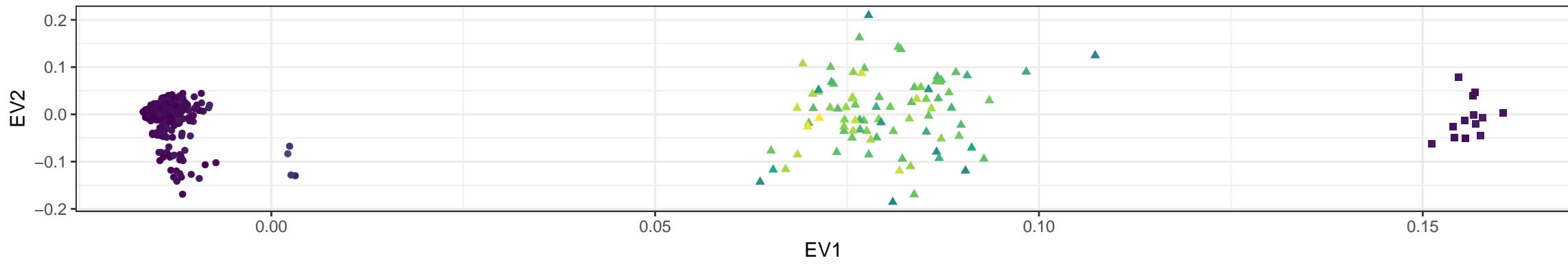


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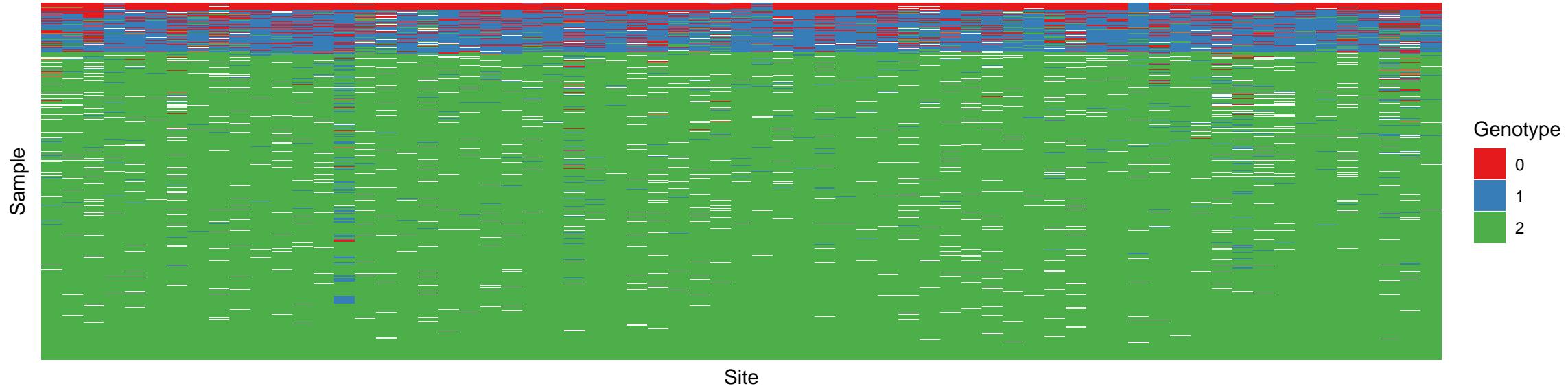
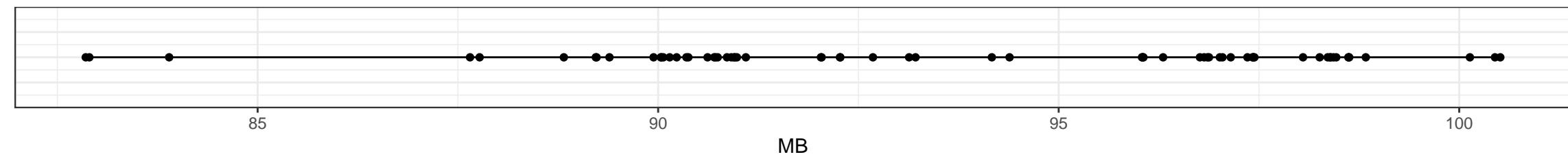


# Ha412HOChr16:82.854–100.513MB Size=17.658MB

2286\_0.4 BetweenSS = 0.99172590641264

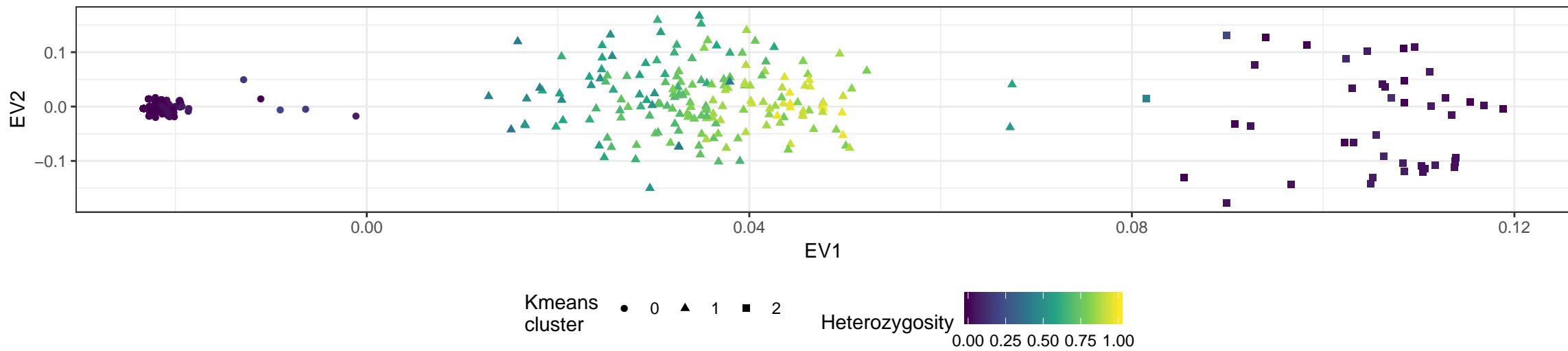


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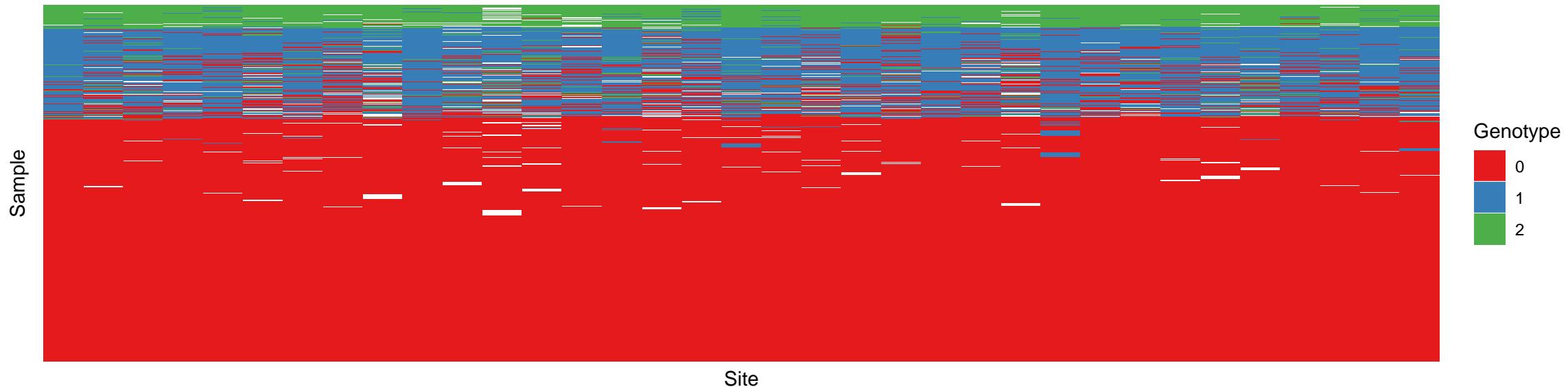


# Ha412HOChr04:102.751–119.877MB Size=17.126MB

599\_0.71 BetweenSS = 0.979917428883286

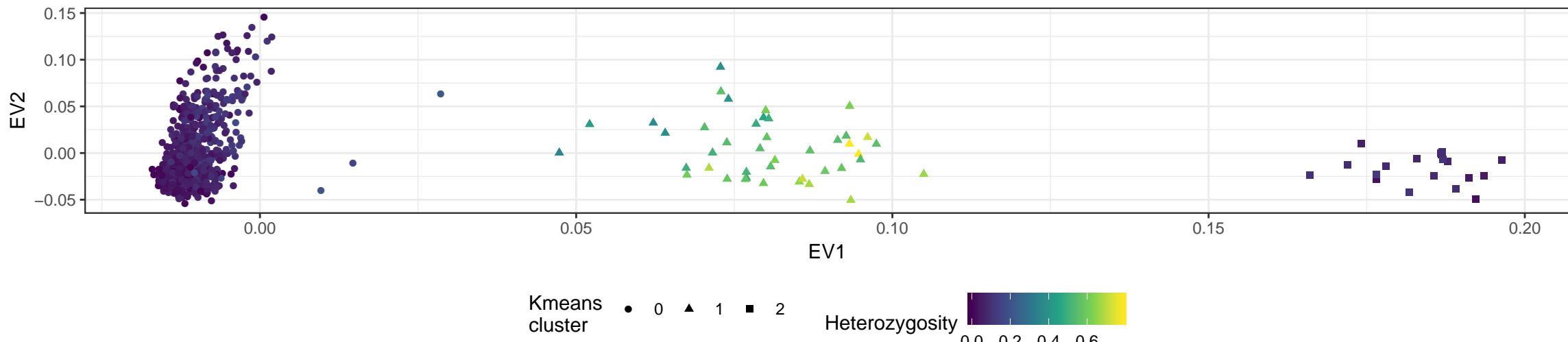


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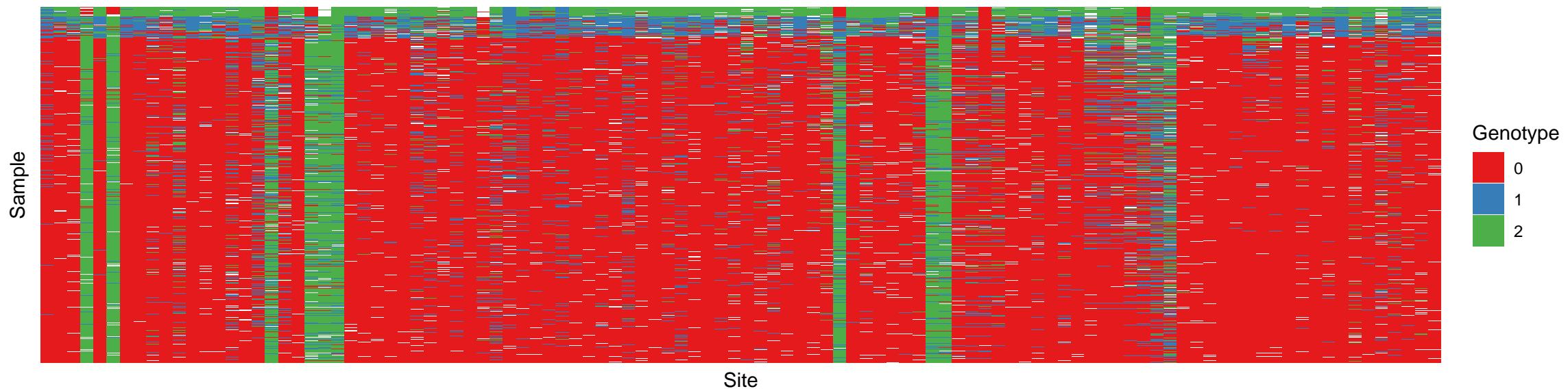
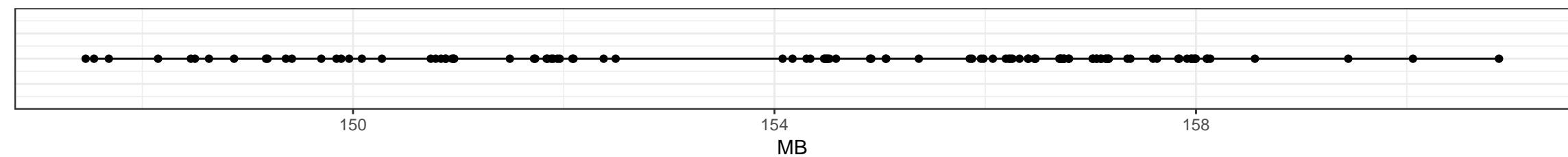


# Ha412HOChr16:147.463–160.875MB Size=13.412MB

3366\_0.2 BetweenSS = 0.983351169252482

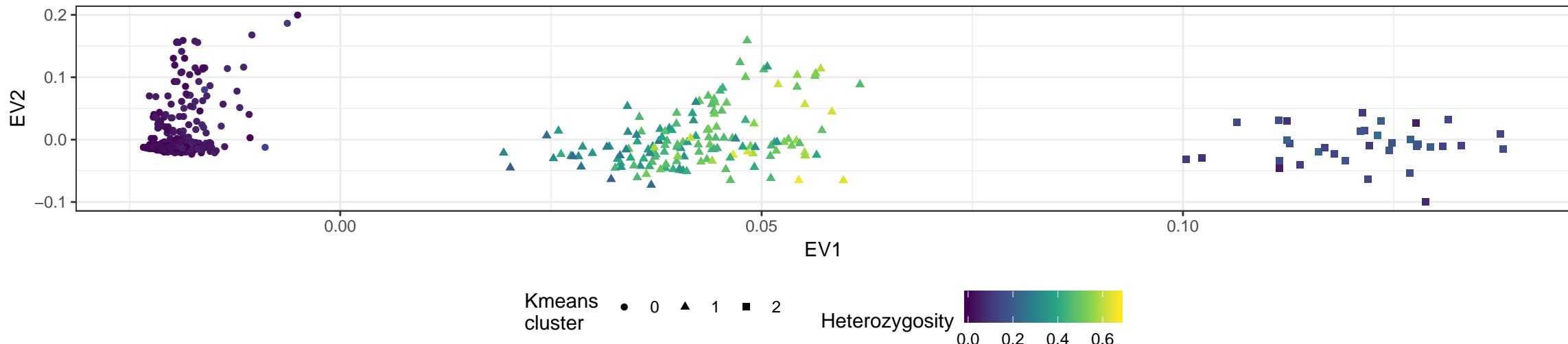


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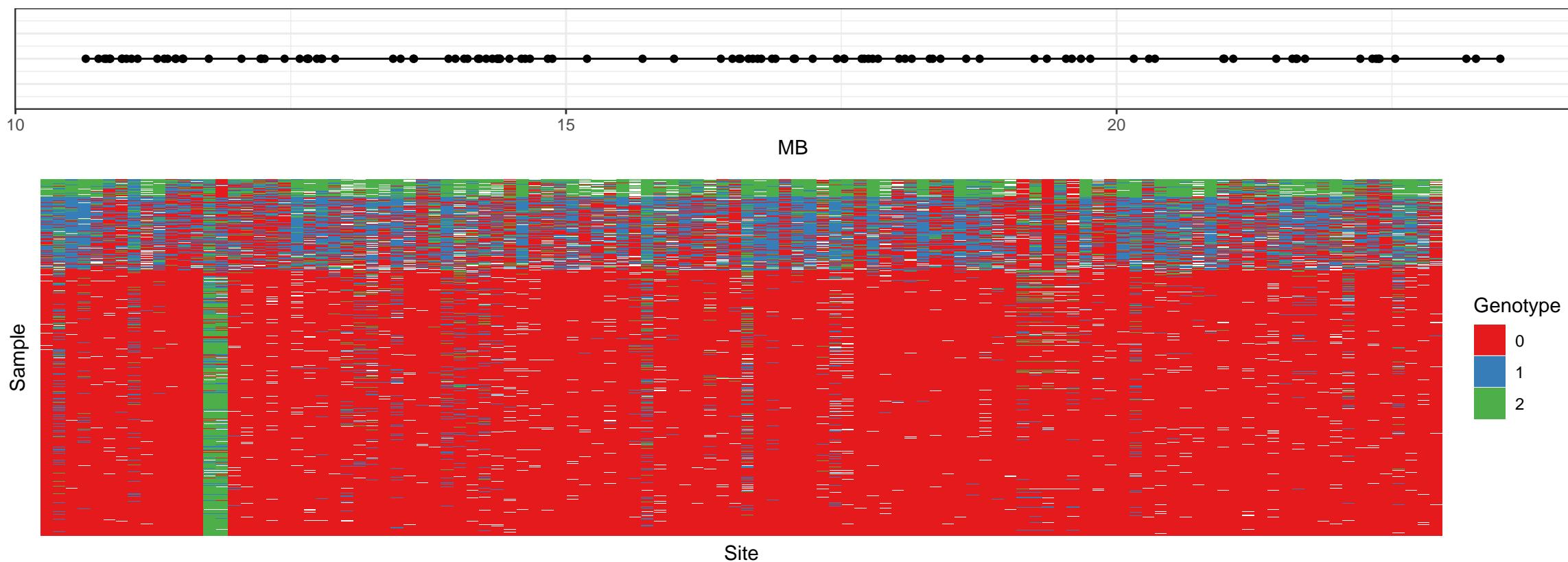


# Ha412HOChr16:10.638–23.484MB Size=12.846MB

2877\_0.29 BetweenSS = 0.984028409613421

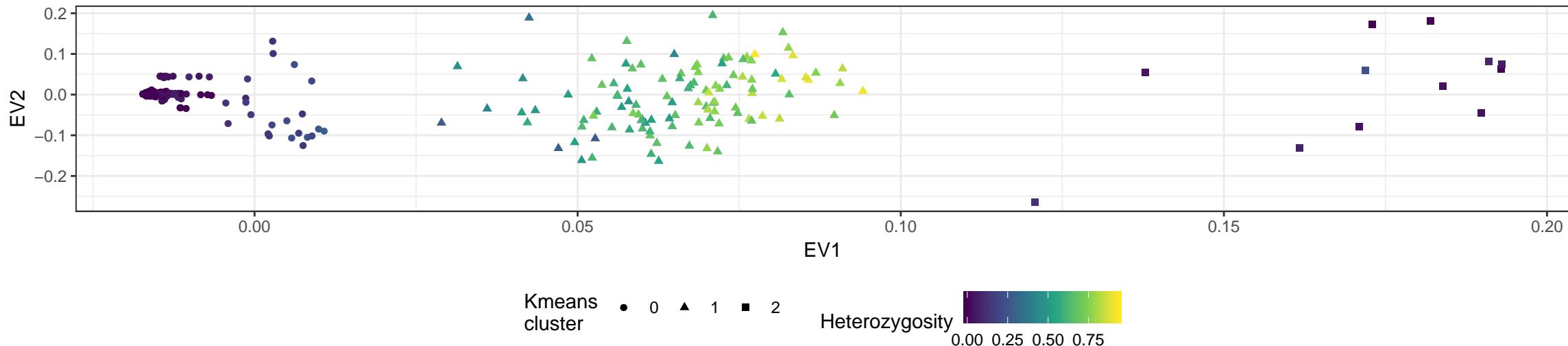


Ha412HOChr16

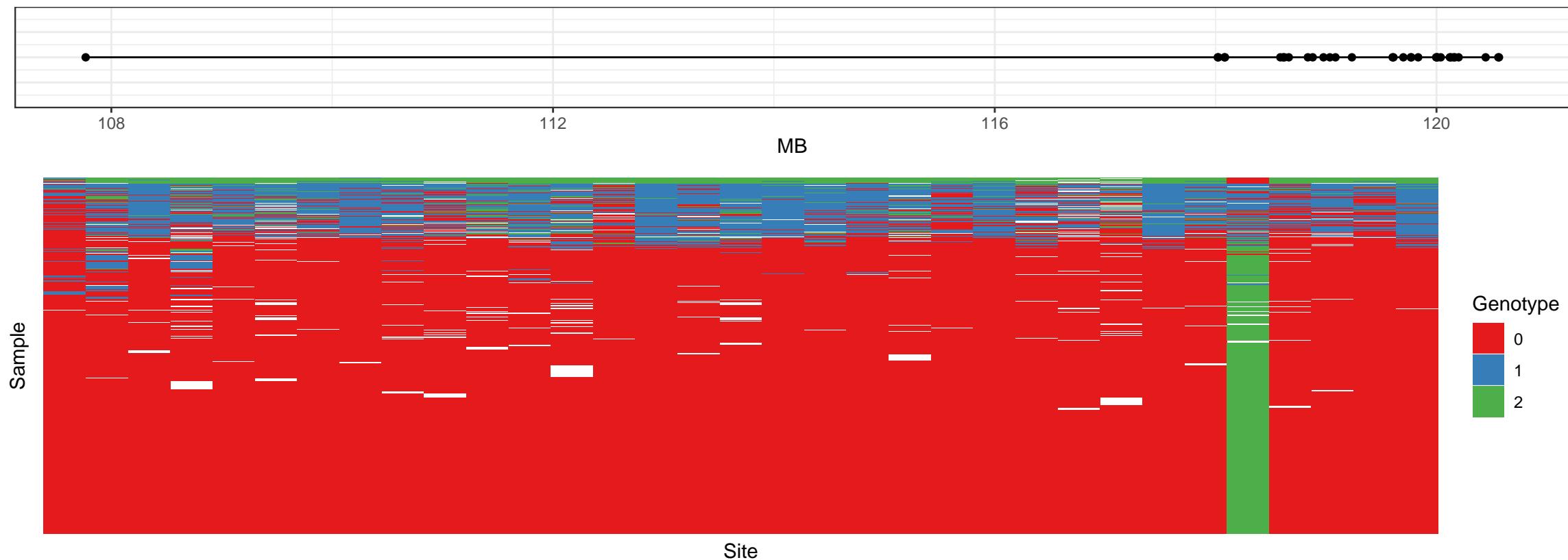


# Ha412HOChr17:107.768–120.566MB Size=12.798MB

2945\_0.31 BetweenSS = 0.965870995283383

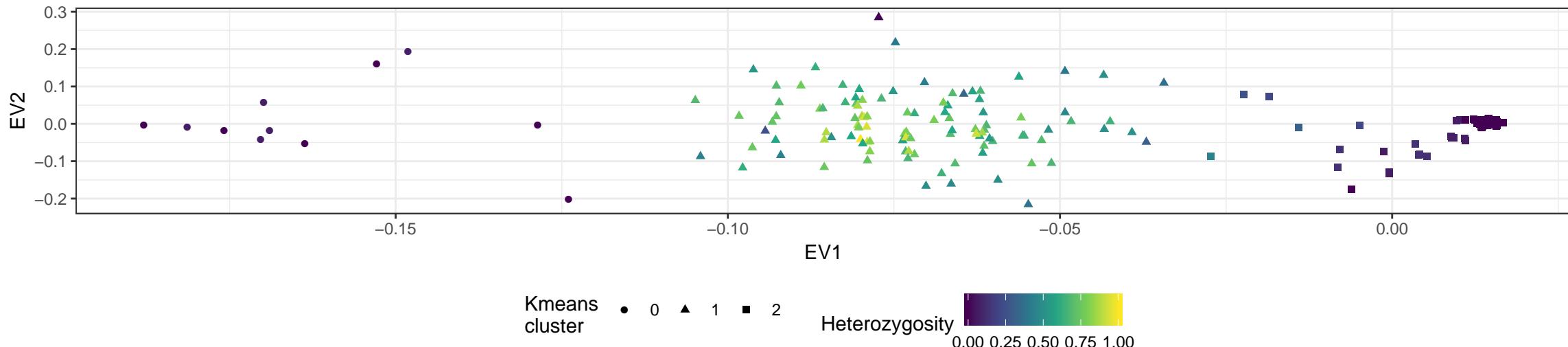


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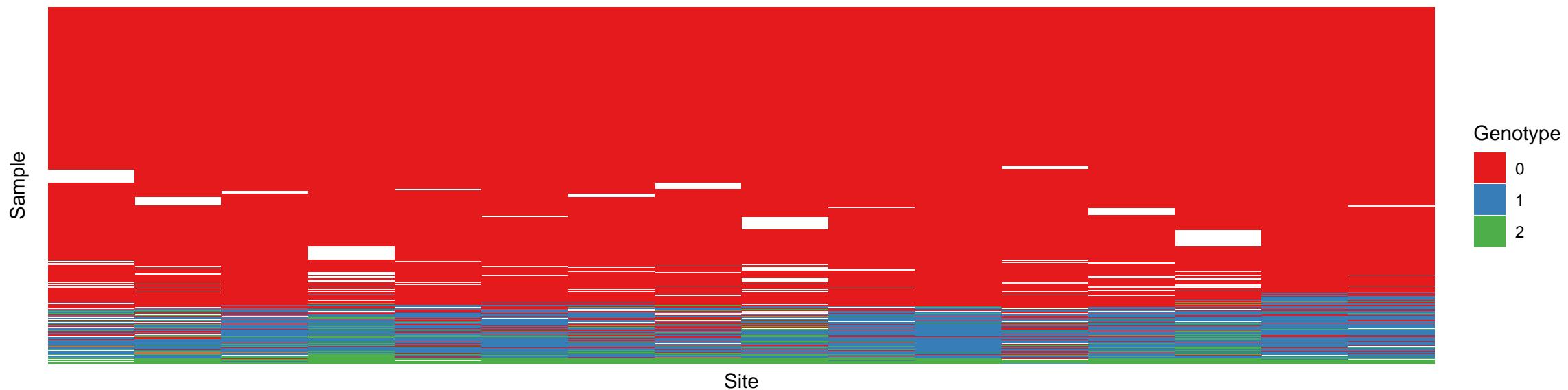
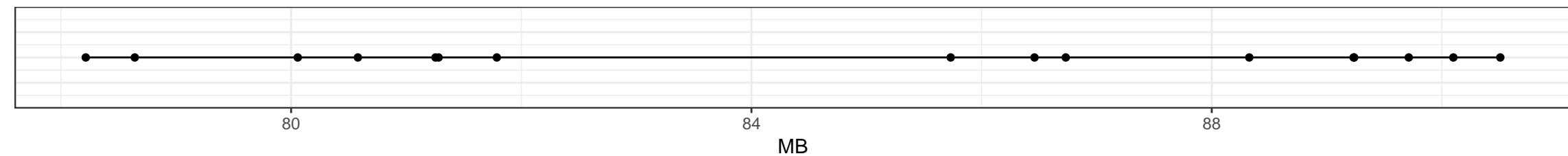


# Ha412HOChr05:78.216–90.507MB Size=12.291MB

1217\_0.6 BetweenSS = 0.962094358352172

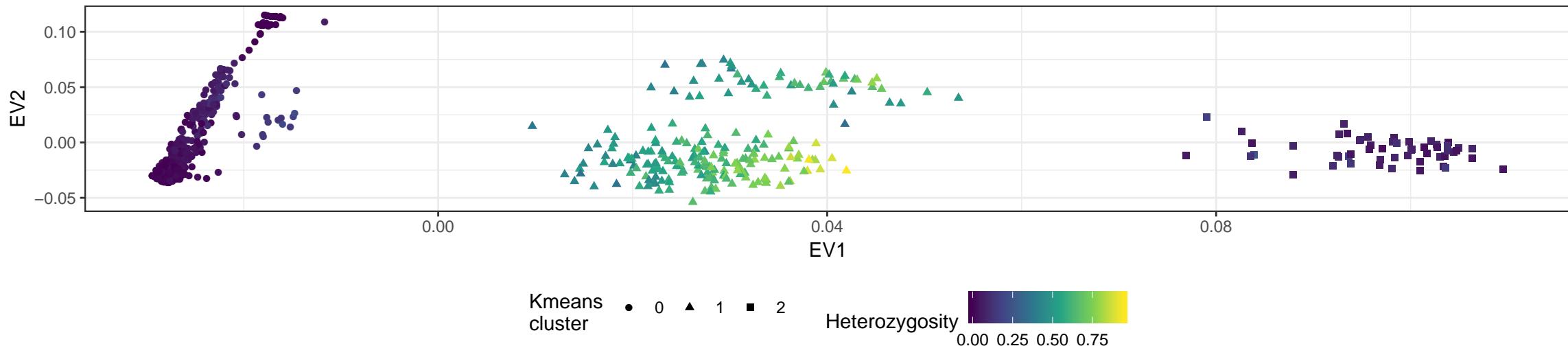


Ha412HOChr05

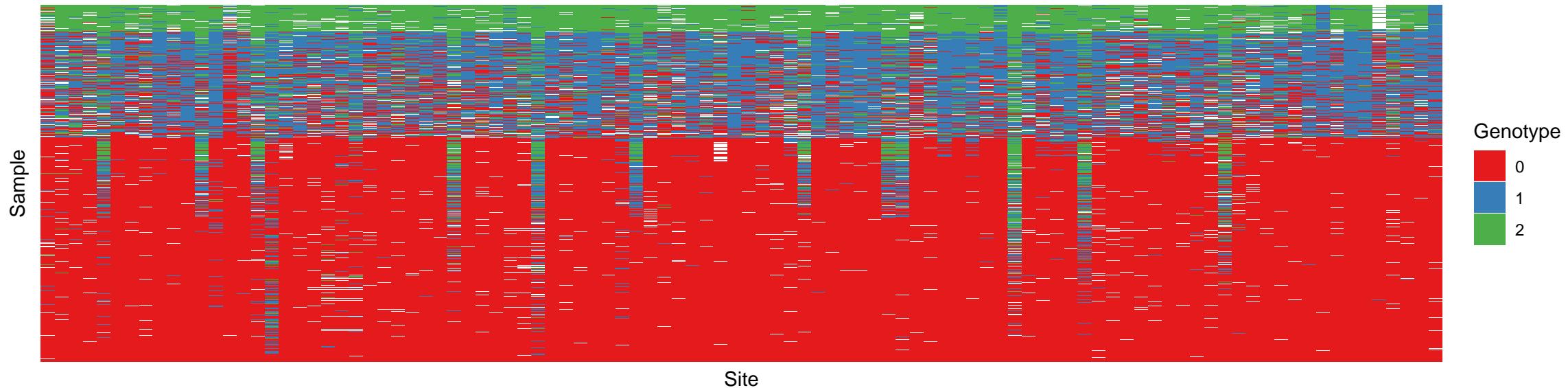
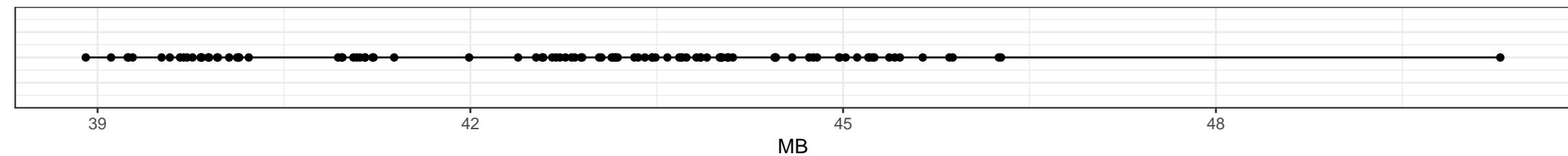


# Ha412HOChr07:38.905–50.288MB Size=11.383MB

2021\_0.39 BetweenSS = 0.979291590558832

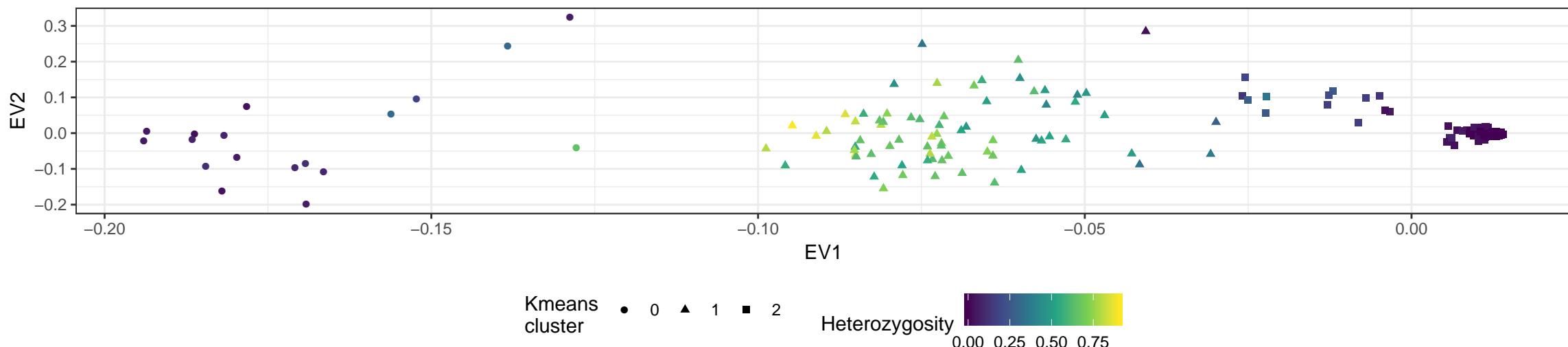


Ha412HOChr07

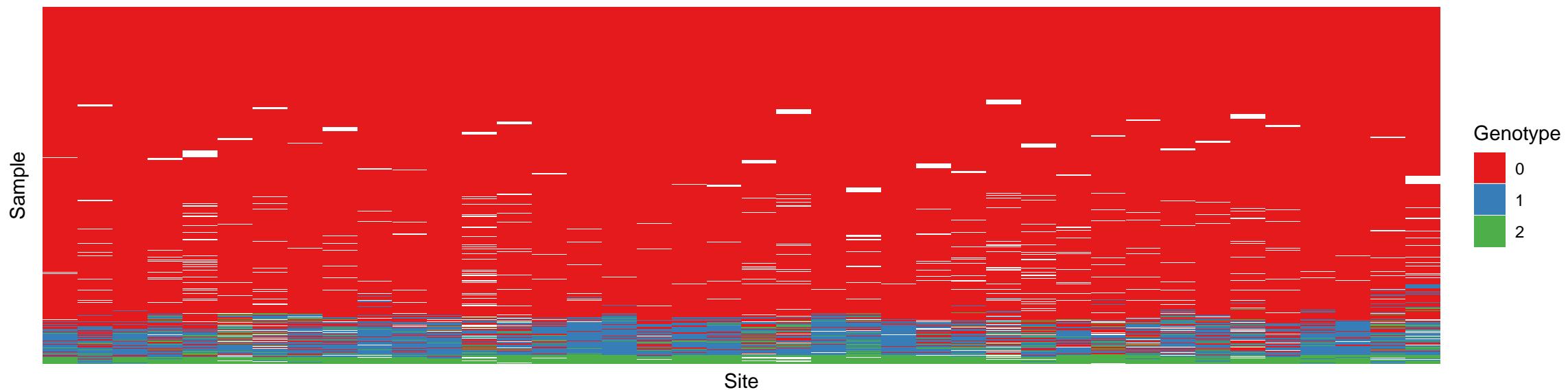
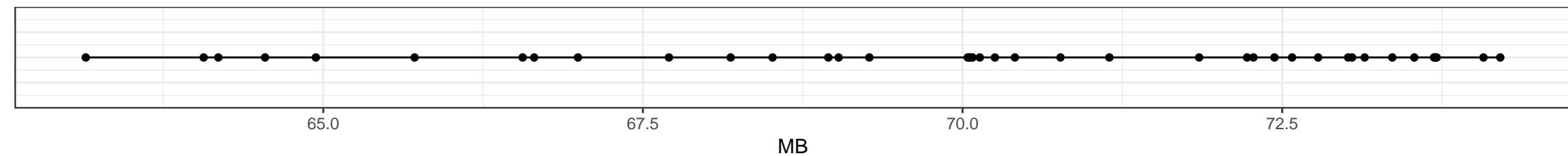


# Ha412HOChr05:63.142–74.206MB Size=11.063MB

1216\_0.6 BetweenSS = 0.965984707775054

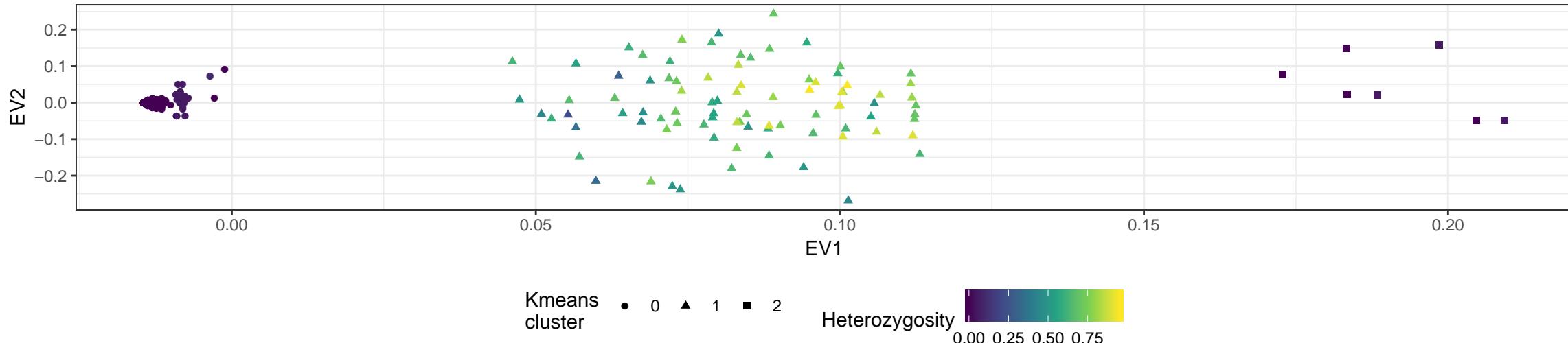


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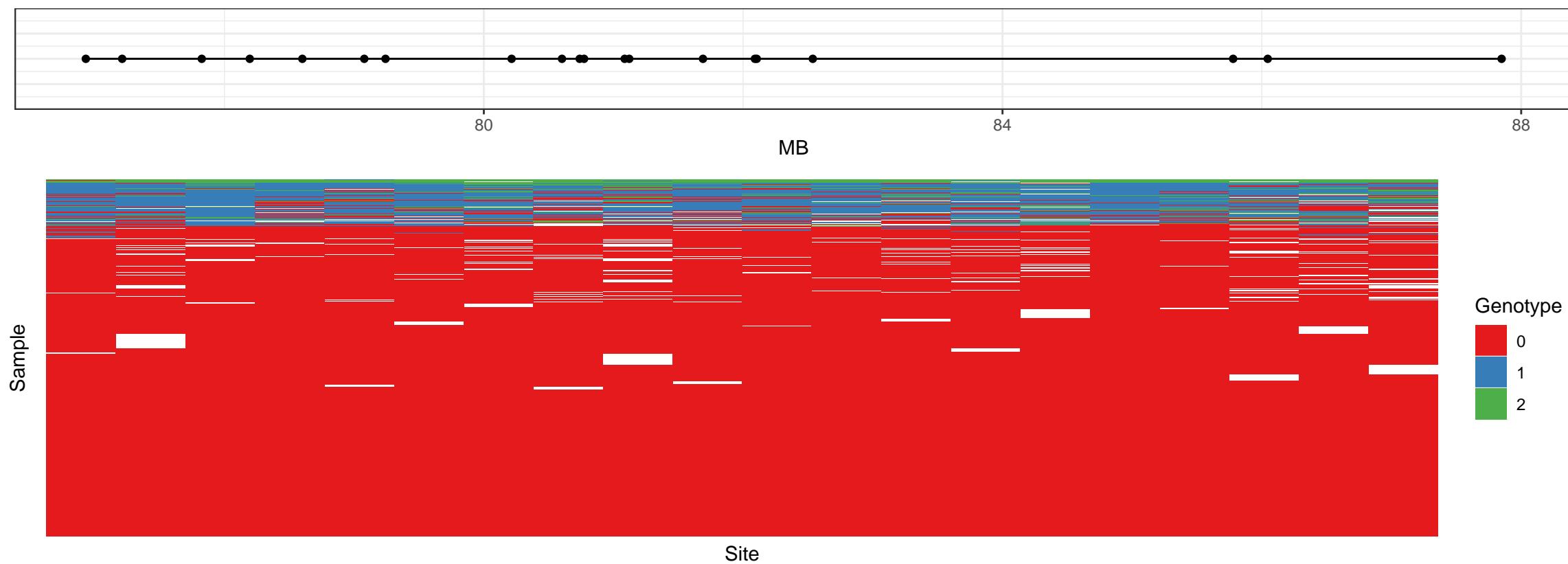


# Ha412HOChr05:76.931–87.849MB Size=10.918MB

1302\_0.59 BetweenSS = 0.971849649997299

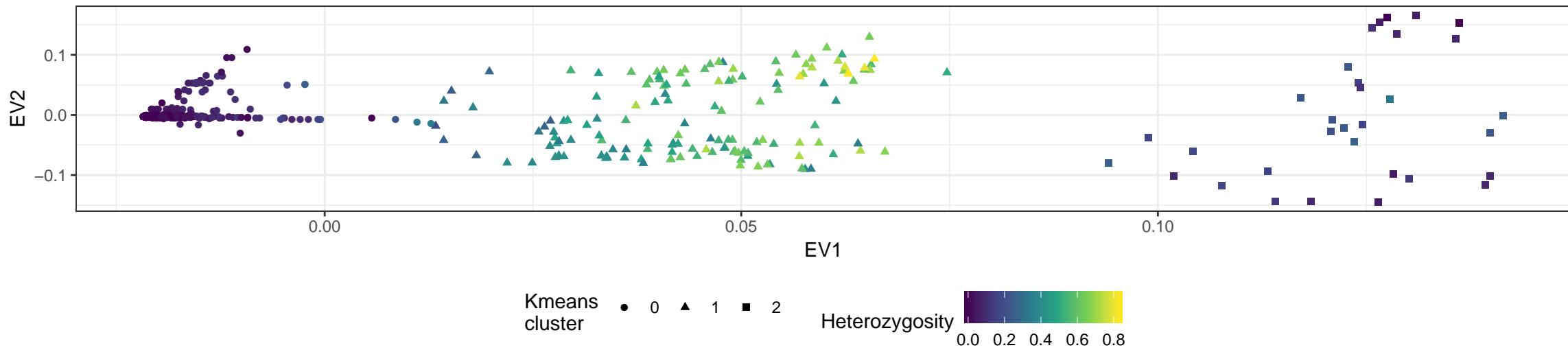


Ha412HOChr05

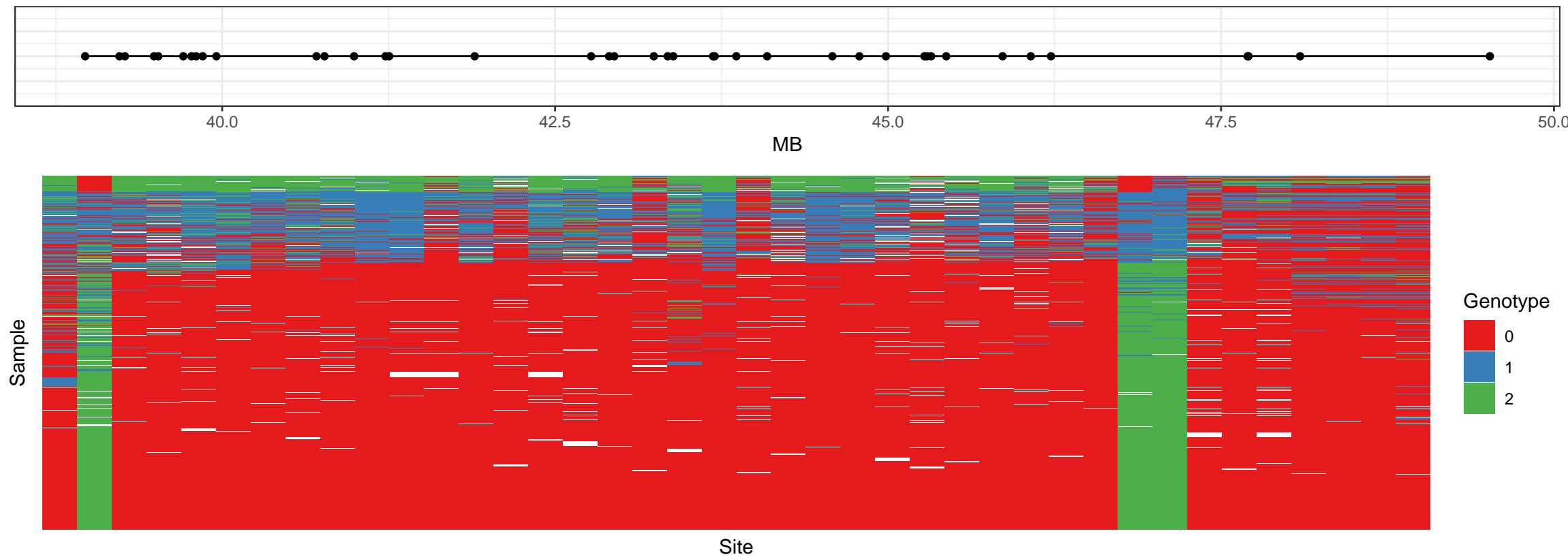


# Ha412HOChr07:38.971–49.519MB Size=10.547MB

2068\_0.38 BetweenSS = 0.960302967350101

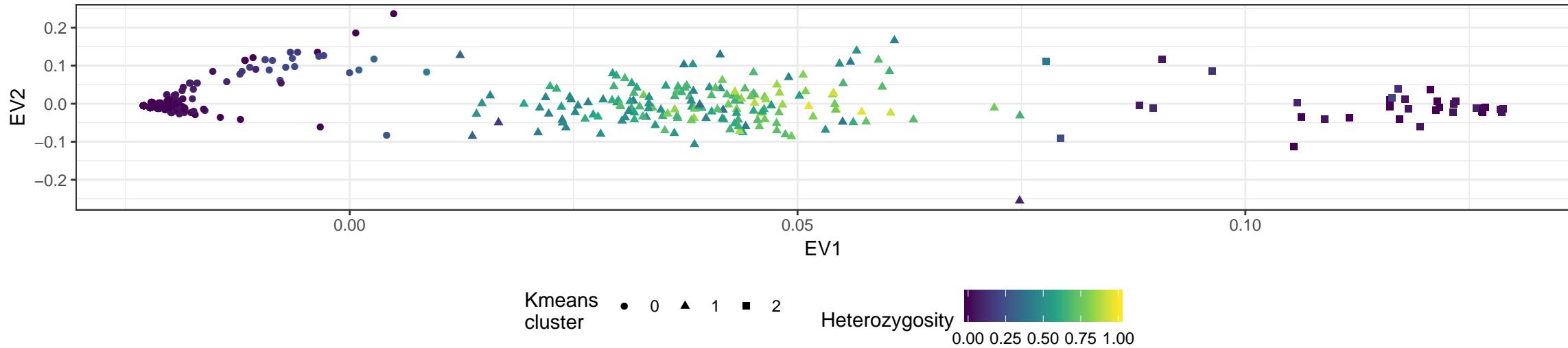


Ha412HOChr07

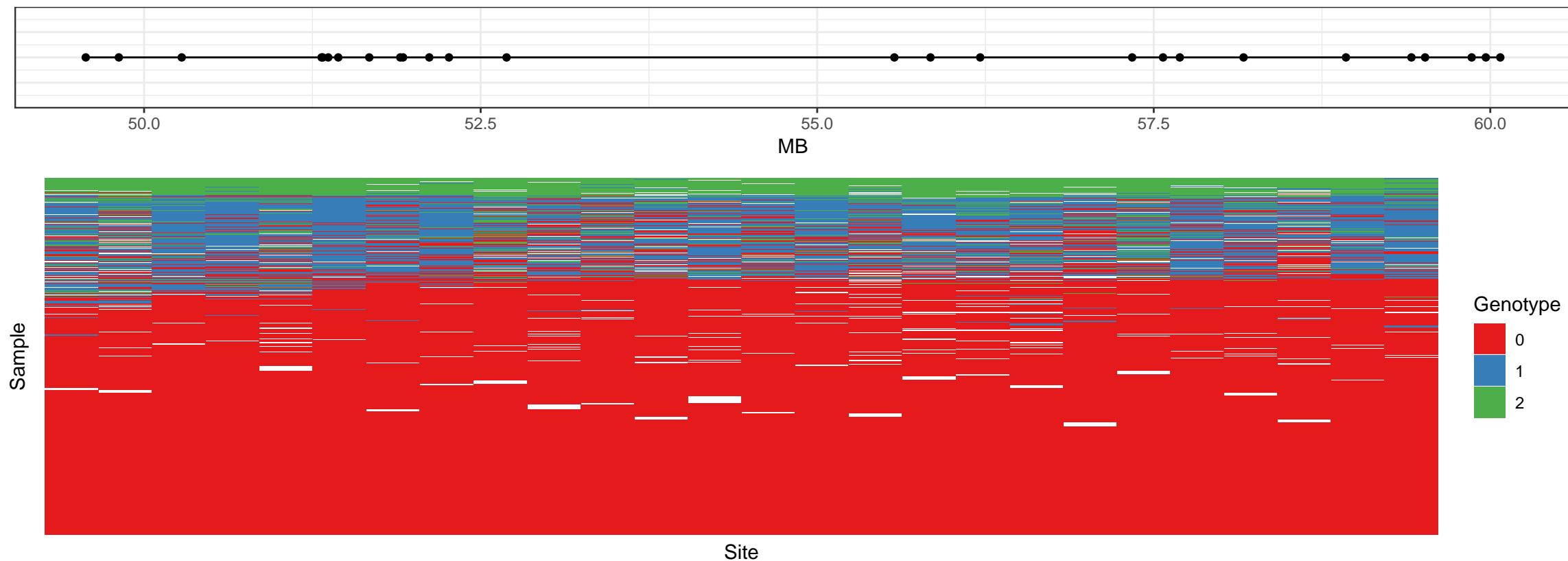


# Ha412HOChr07:49.567–60.074MB Size=10.508MB

1058\_0.6 BetweenSS = 0.960388184330477

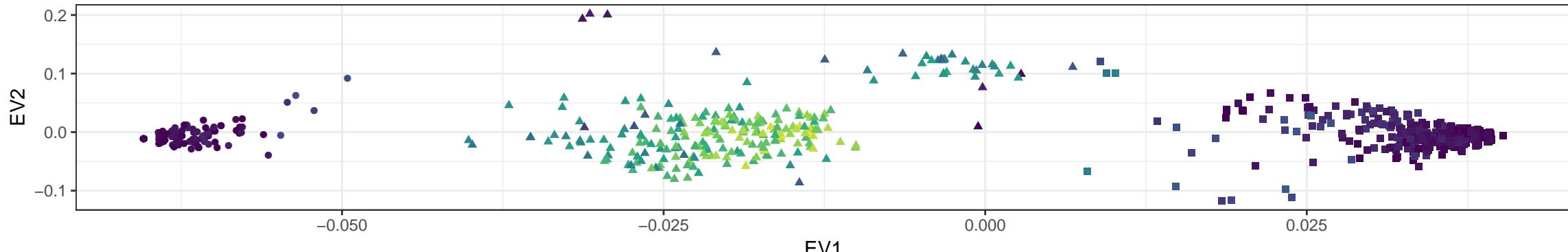


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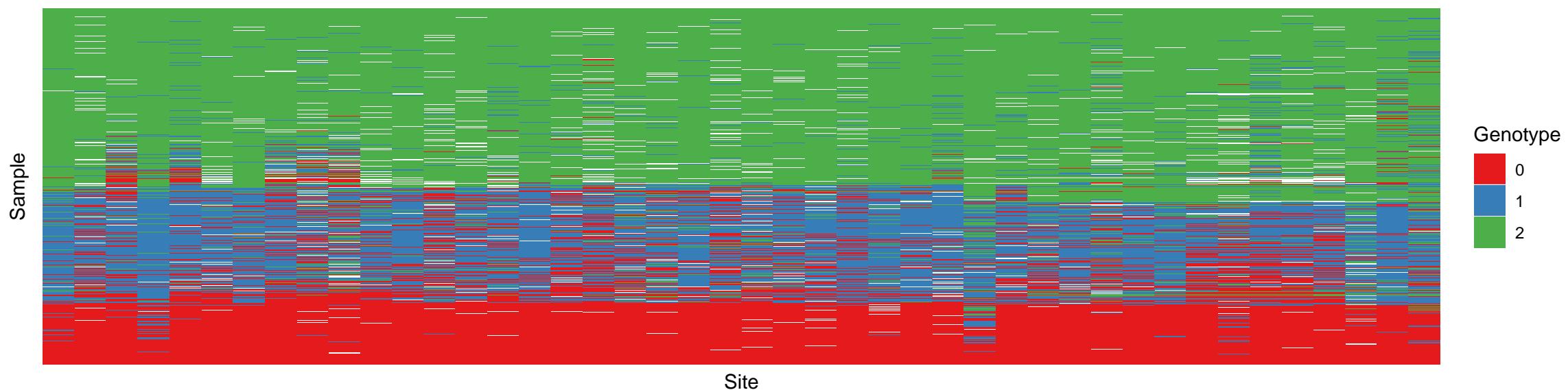
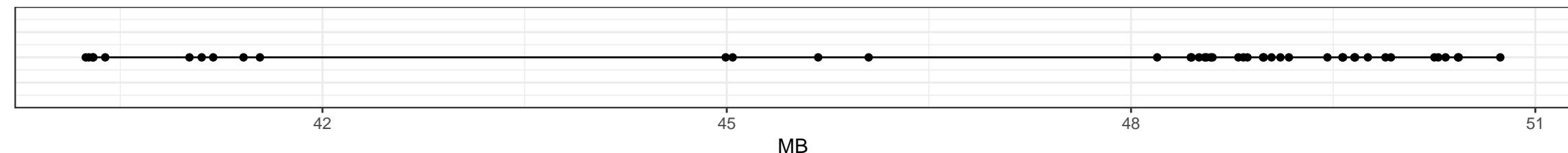


# Ha412HOChr14:40.243–50.74MB Size=10.496MB

1191\_0.55 BetweenSS = 0.969506770751032

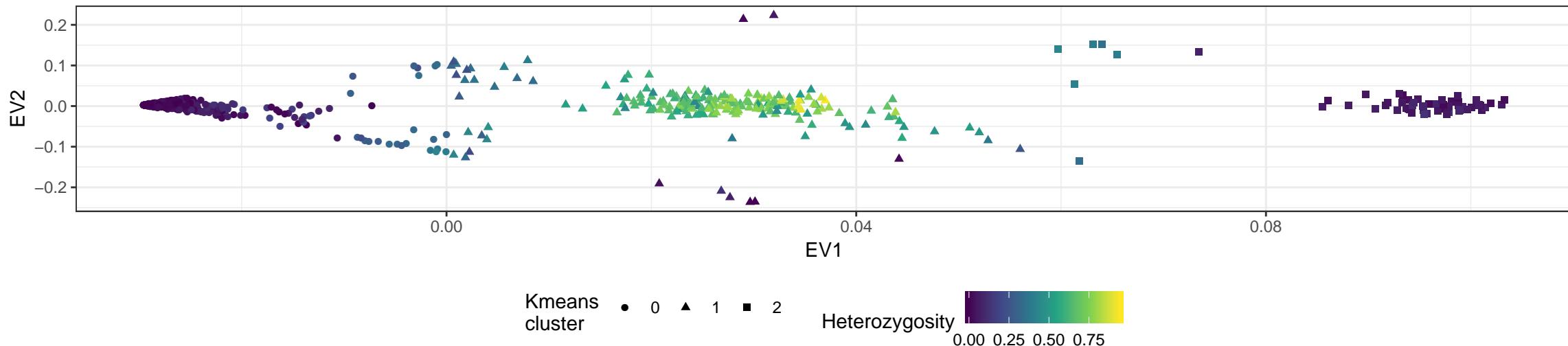


Ha412HOChr14

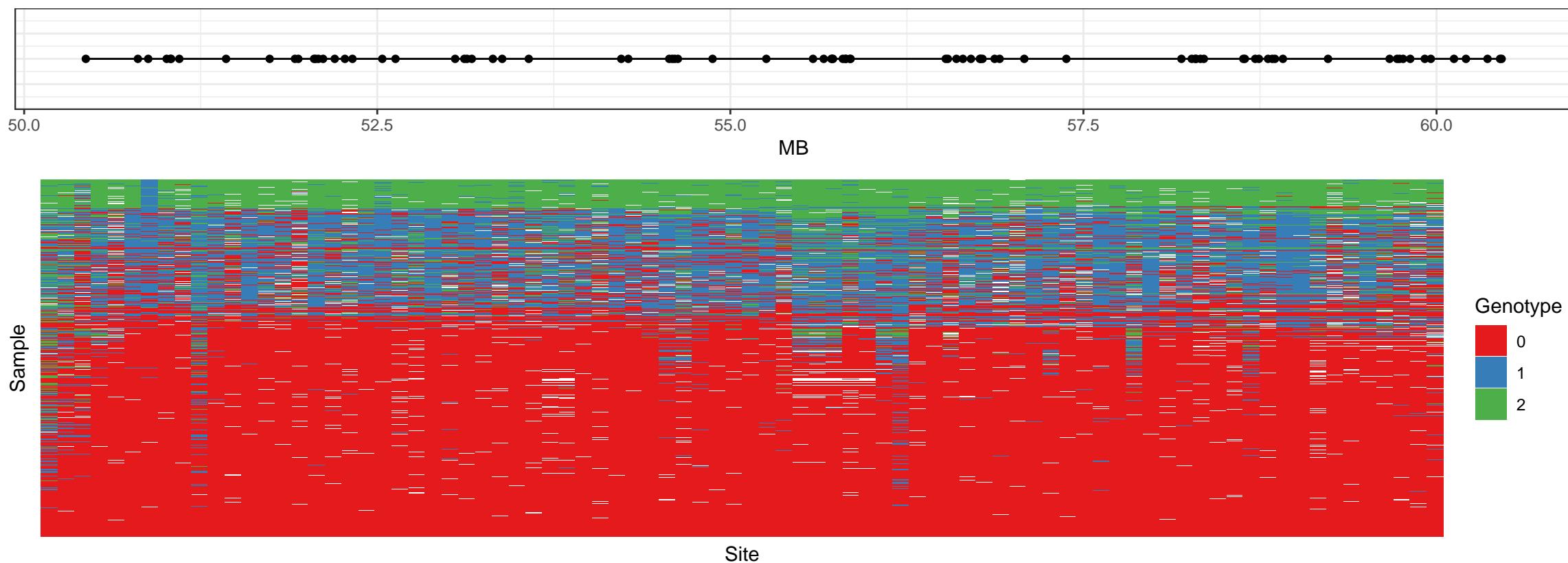


# Ha412HOChr14:50.437–60.461MB Size=10.024MB

1588\_0.45 BetweenSS = 0.951928782112281

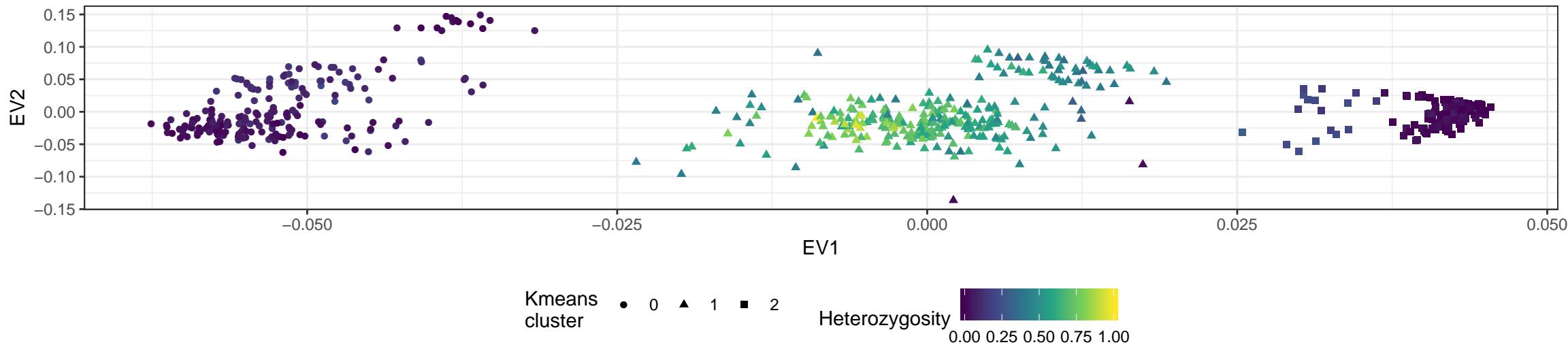


Ha412HOChr14

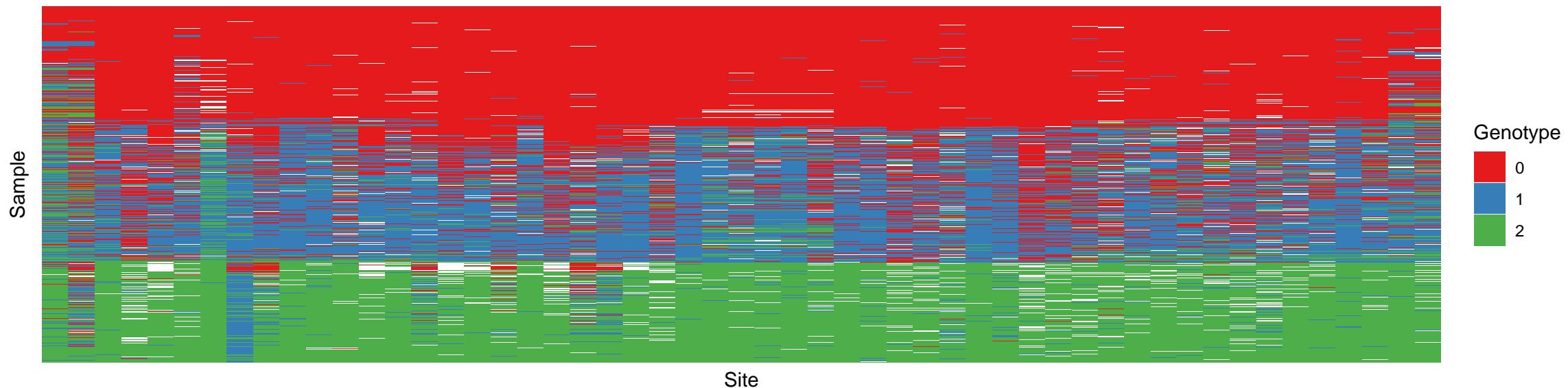
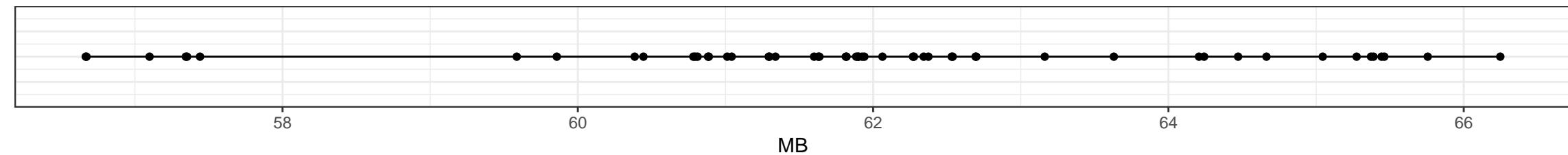


# Ha412HOChr05:56.667–66.247MB Size=9.58MB

1902\_0.48 BetweenSS = 0.973289926905641

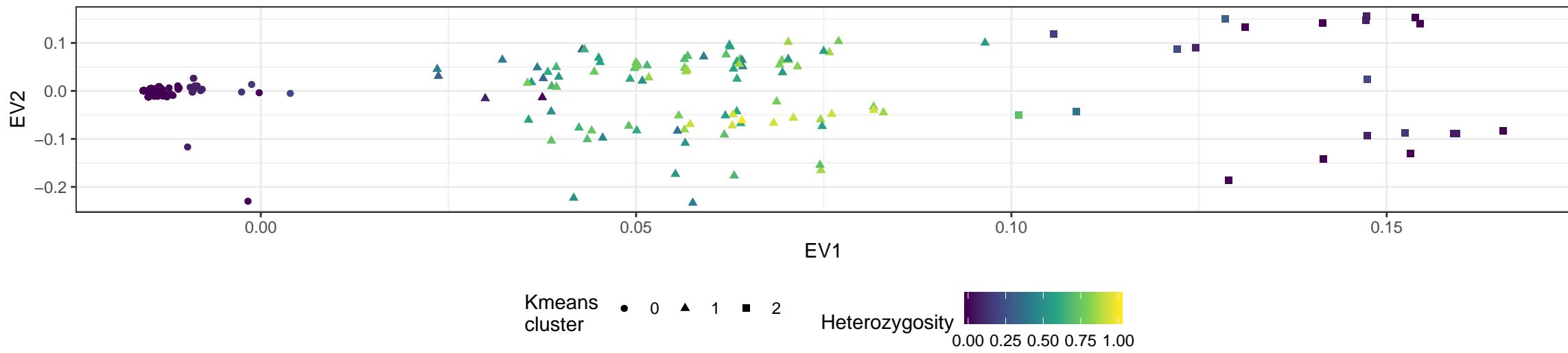


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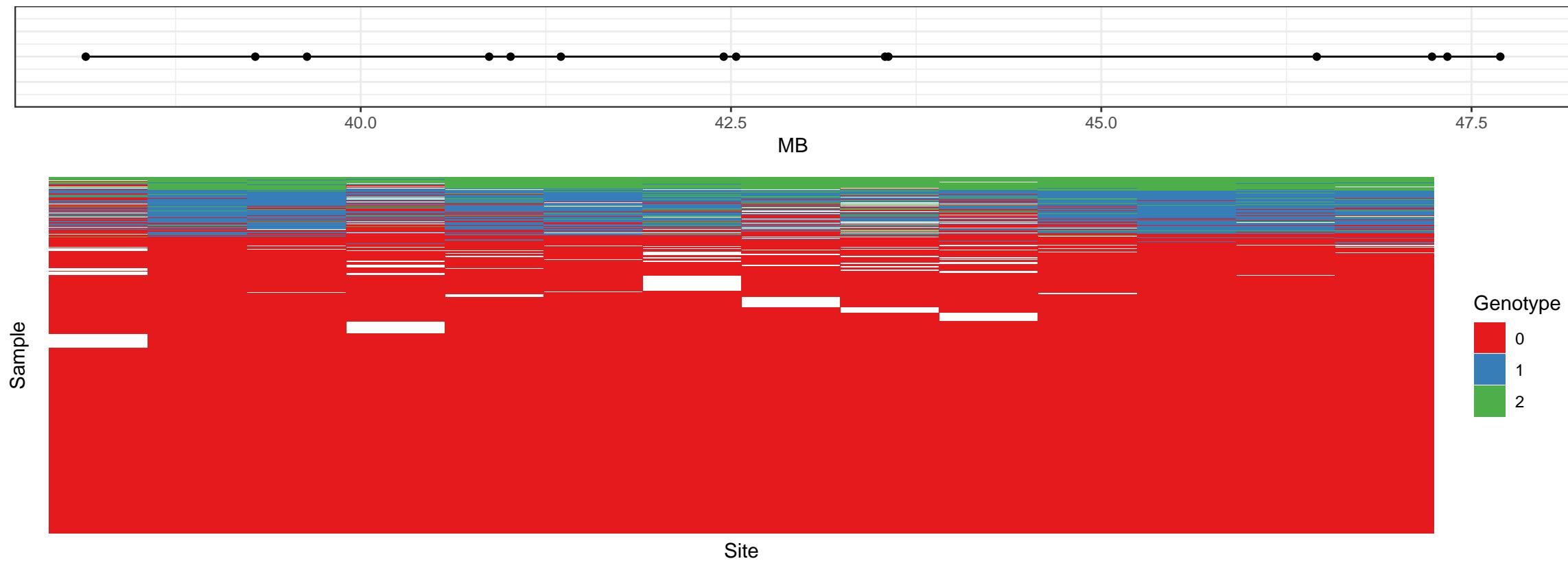


# Ha412HOChr07:38.144–47.694MB Size=9.55MB

1804\_0.45 BetweenSS = 0.969993839119145

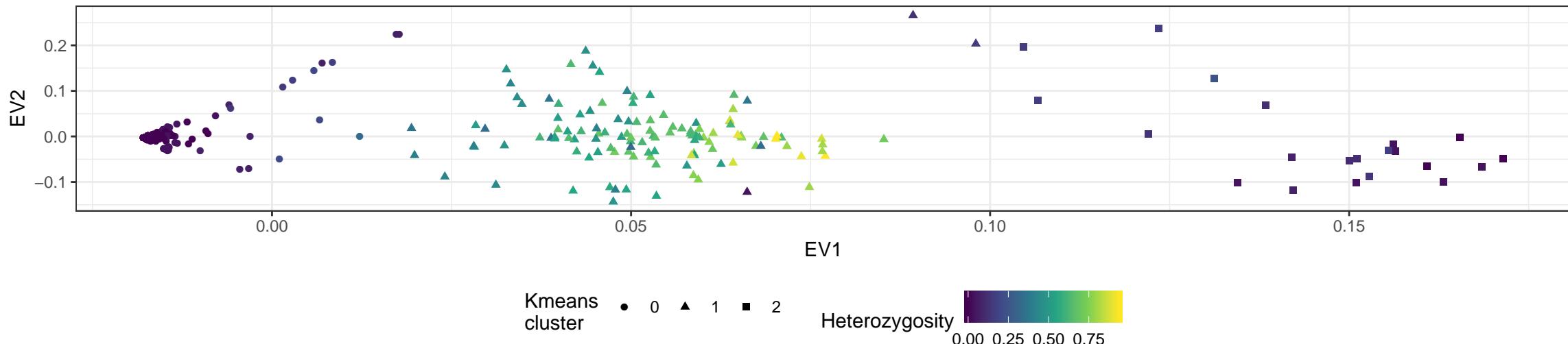


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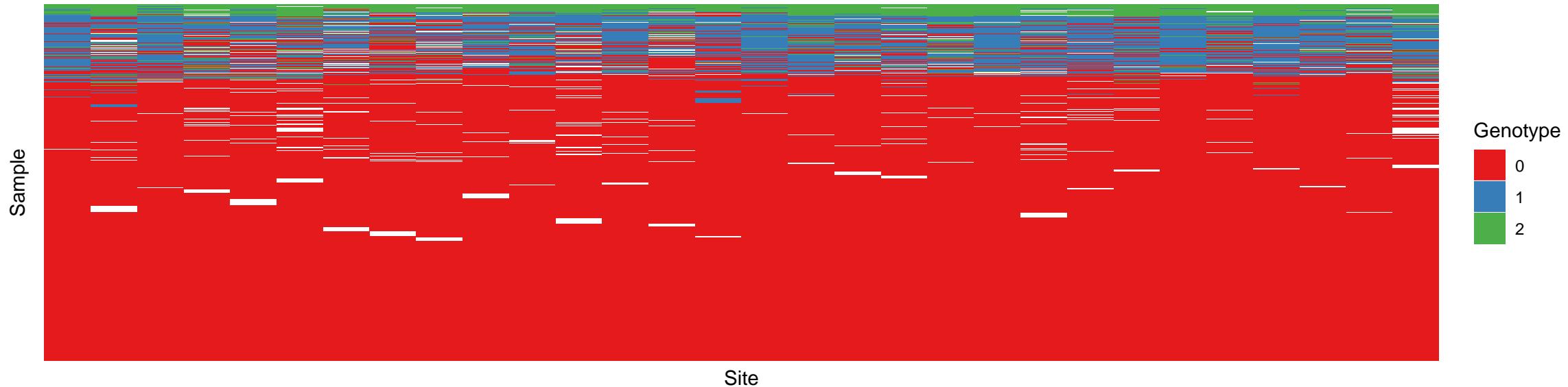
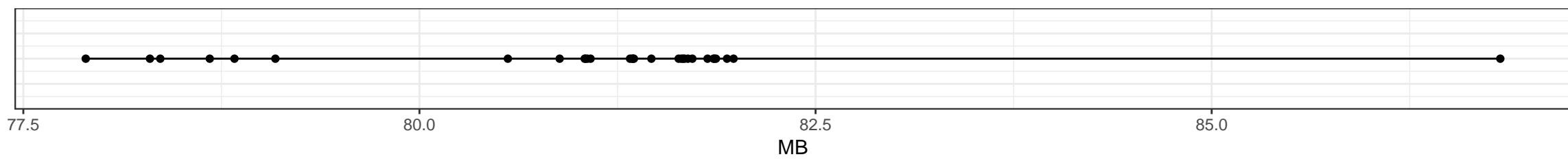


# Ha412HOChr09:77.894–86.821MB Size=8.927MB

1272\_0.51 BetweenSS = 0.960821006716386

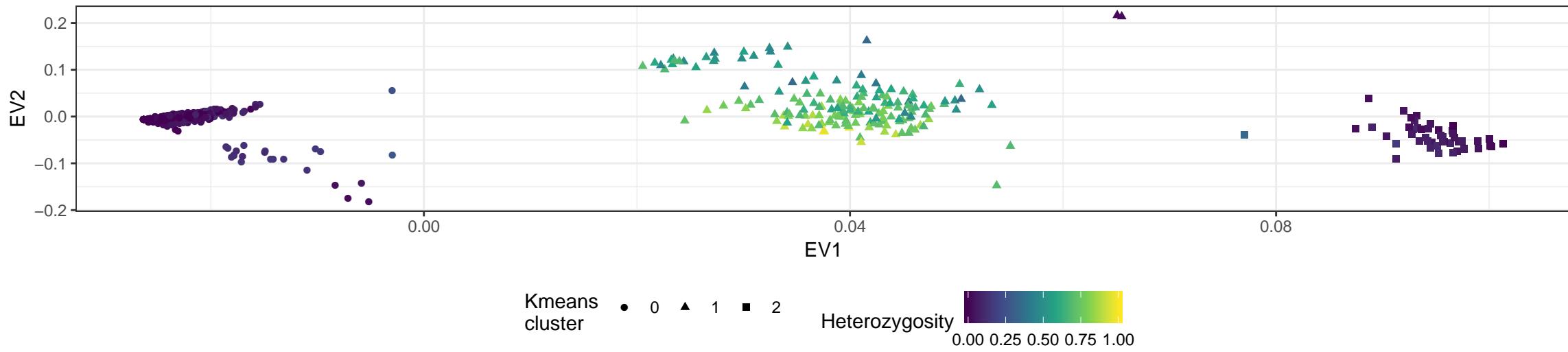


Ha412HOChr09

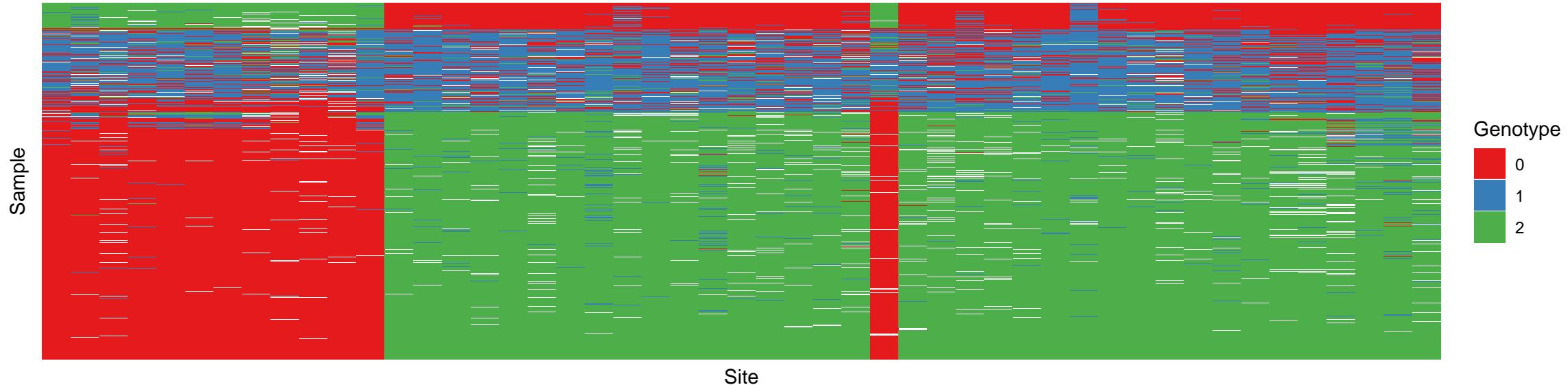
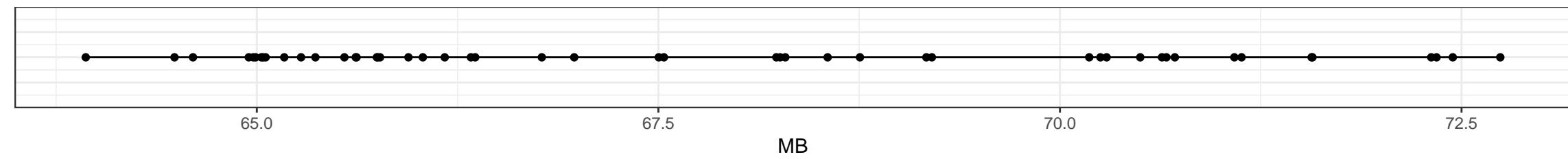


# Ha412HOChr03:63.935–72.741MB Size=8.806MB

706\_0.65 BetweenSS = 0.984290578266251

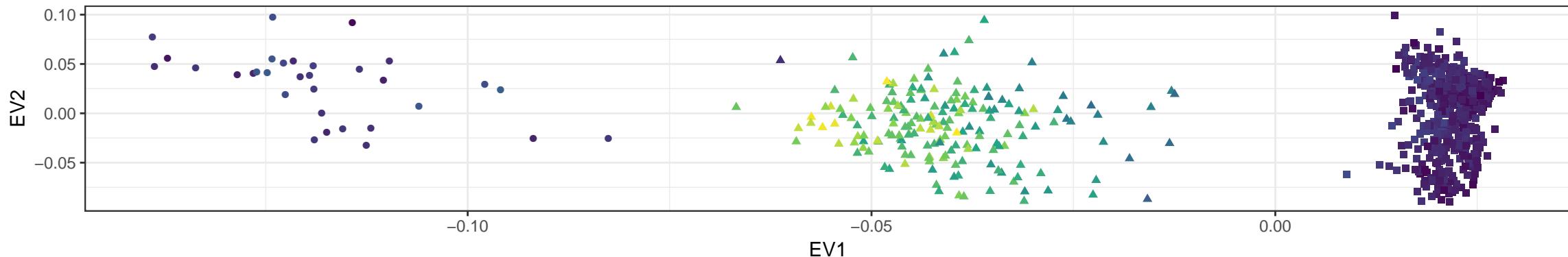


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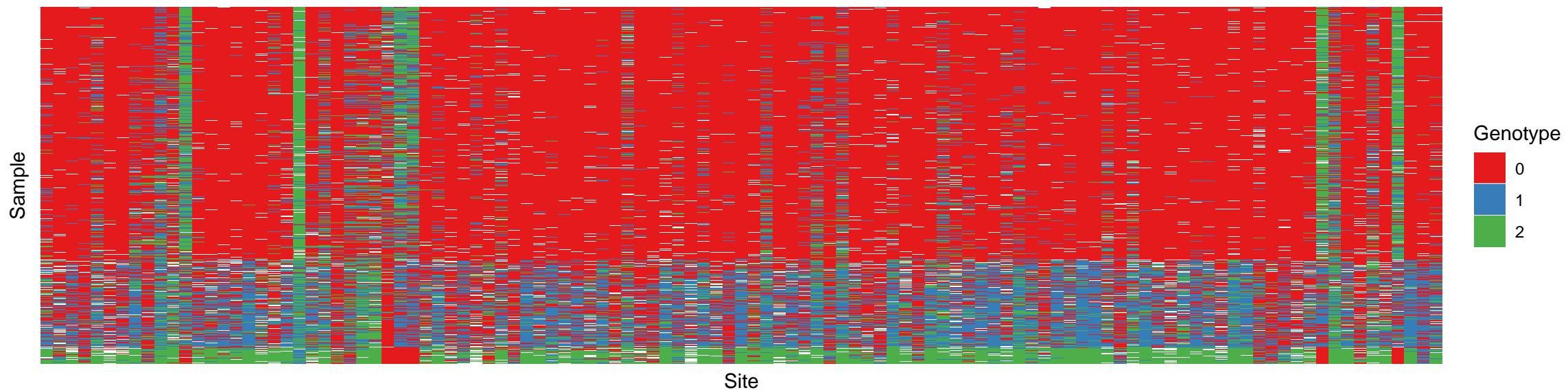
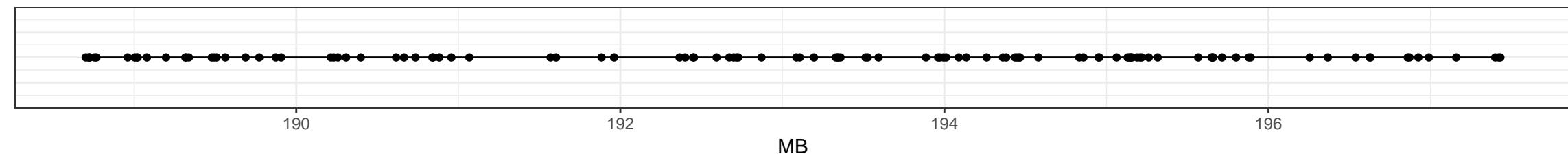


# Ha412HOChr17:188.701–197.43MB Size=8.73MB

3646\_0.15 BetweenSS = 0.97485265979217

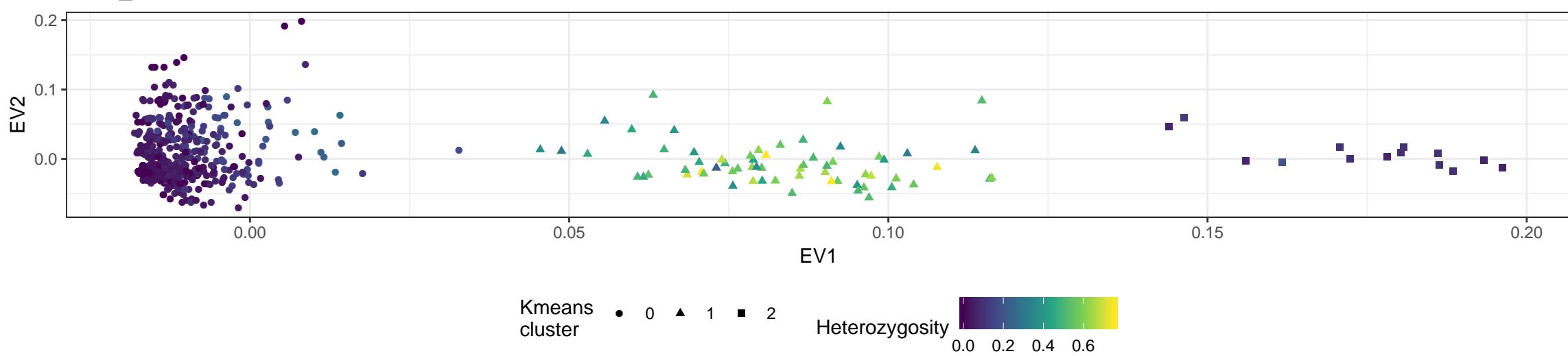


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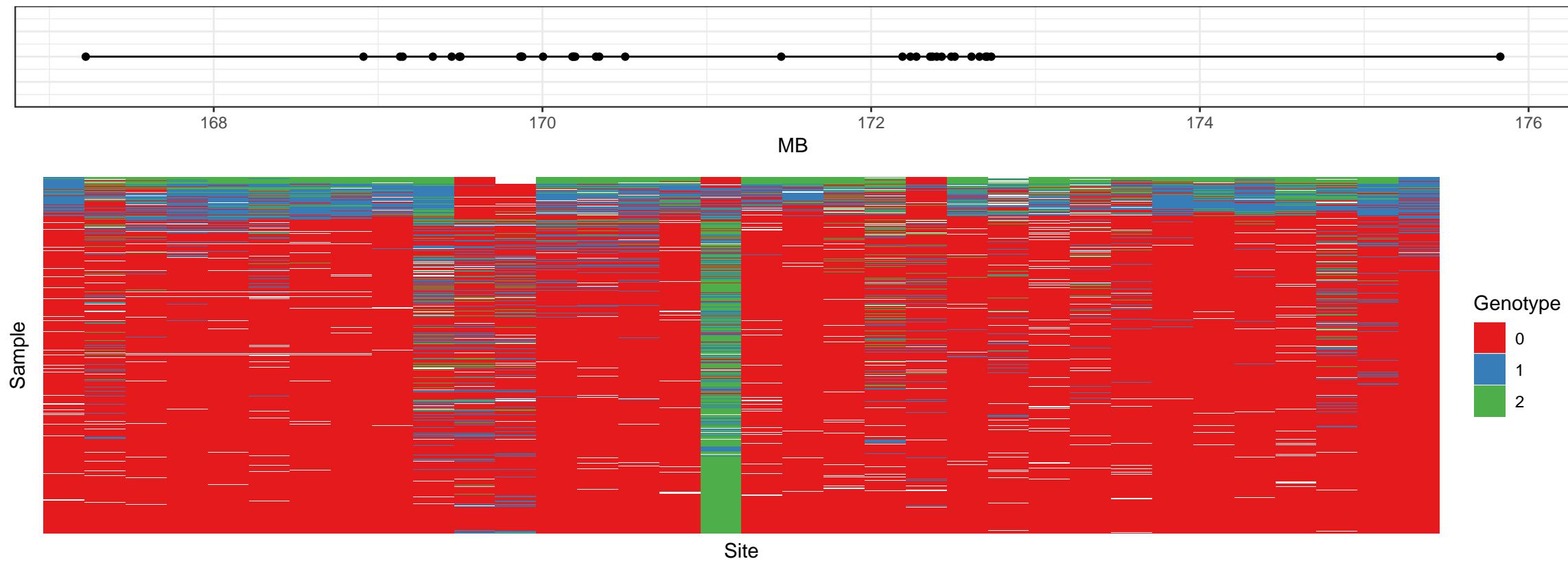


# Ha412HOChr12:167.221–175.828MB Size=8.606MB

3274\_0.23 BetweenSS = 0.957512294200568

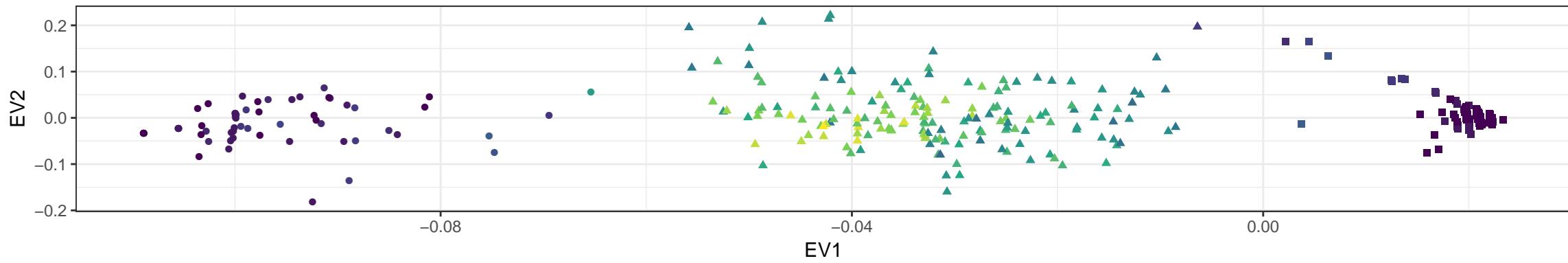


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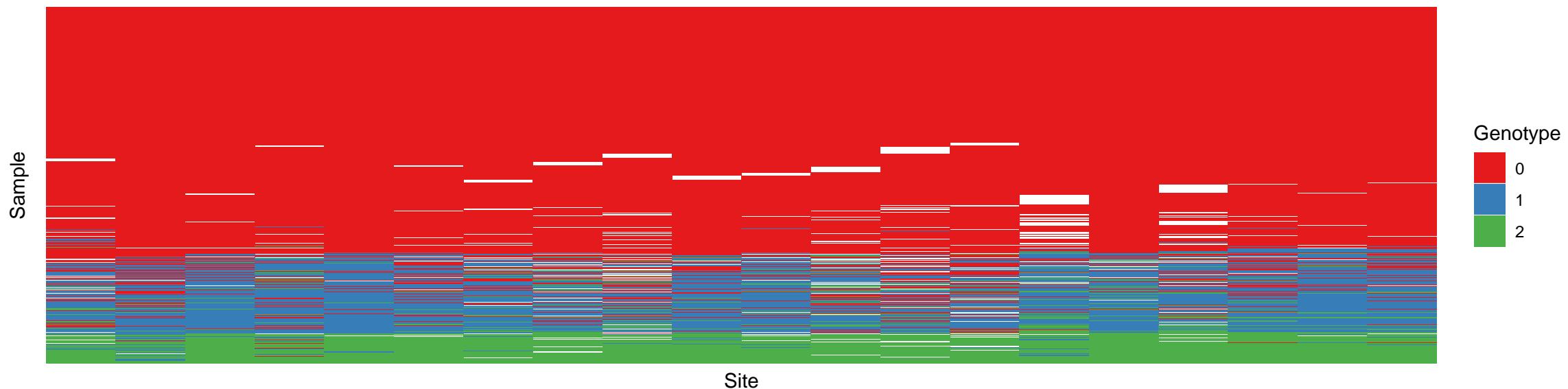
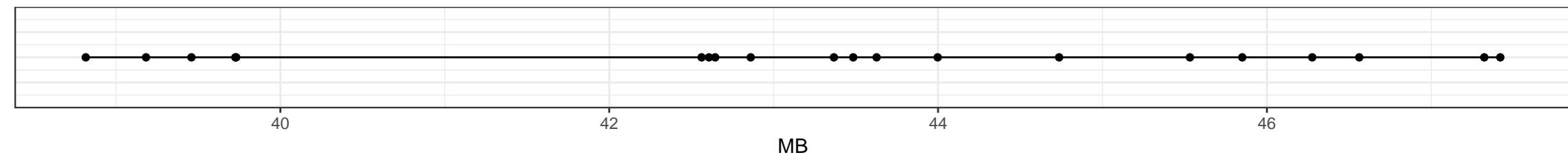


# Ha412HOChr07:38.816–47.419MB Size=8.603MB

709\_0.66 BetweenSS = 0.971703009217956

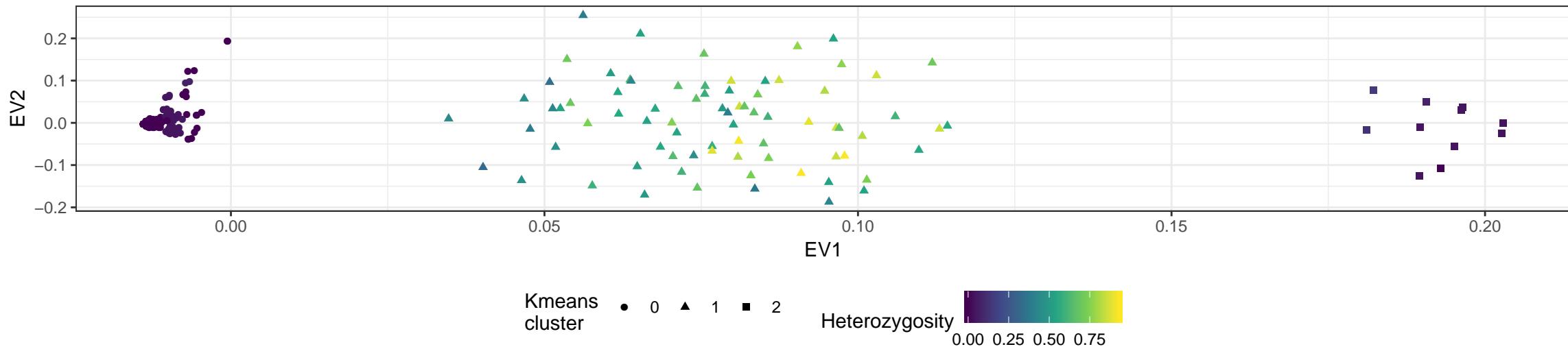


Ha412HOChr07

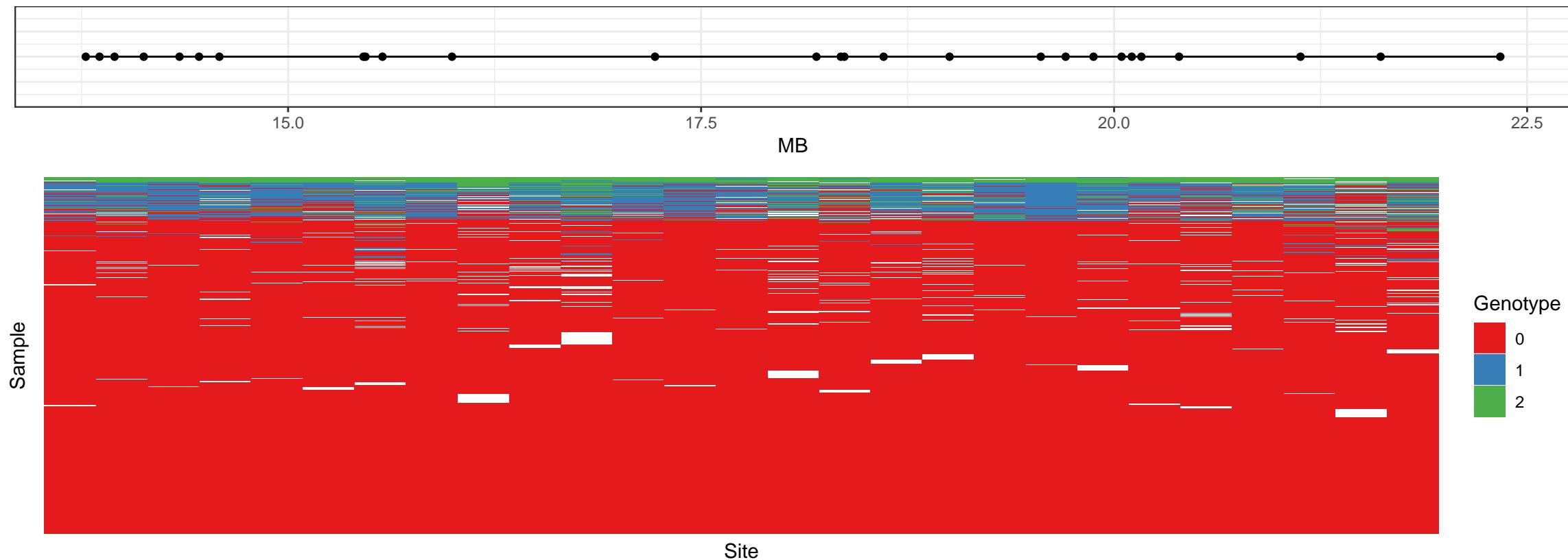


# Ha412HOChr01:13.775–22.338MB Size=8.562MB

1210\_0.51 BetweenSS = 0.971972813694727

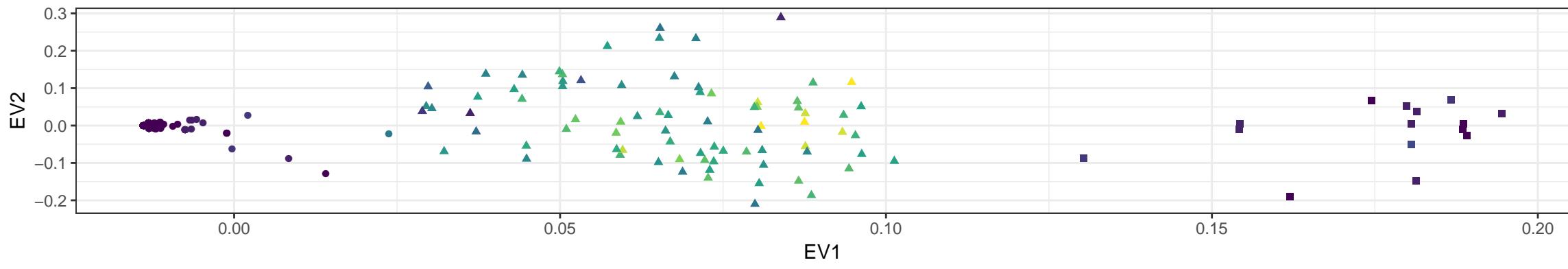


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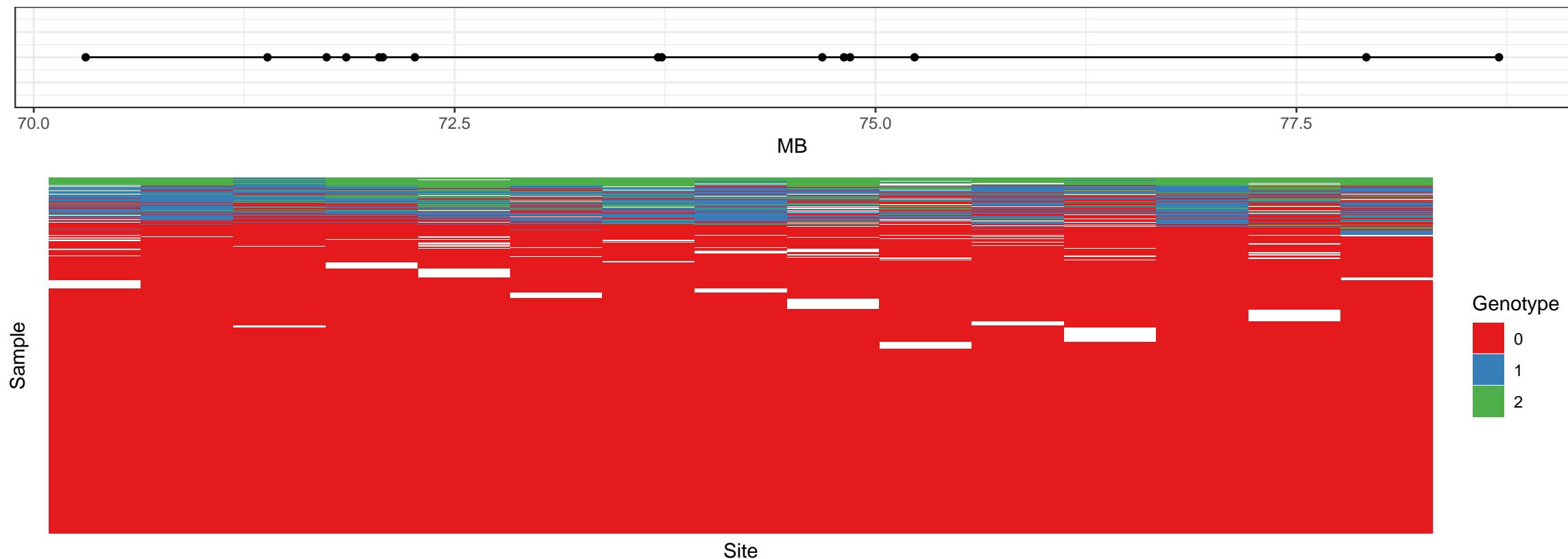


# Ha412HOChr02:70.308–78.703MB Size=8.394MB

1636\_0.57 BetweenSS = 0.963117432691208

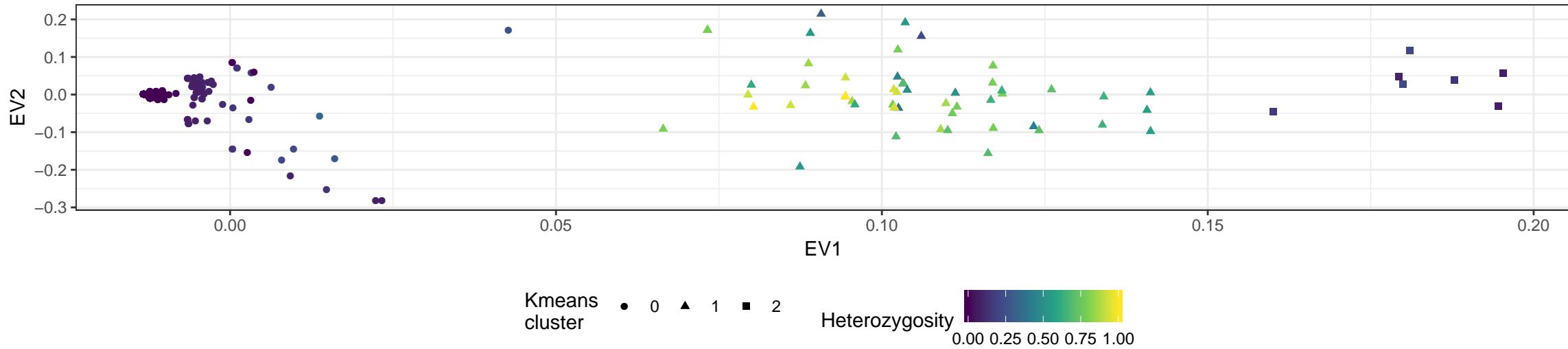


Ha412HOChr02

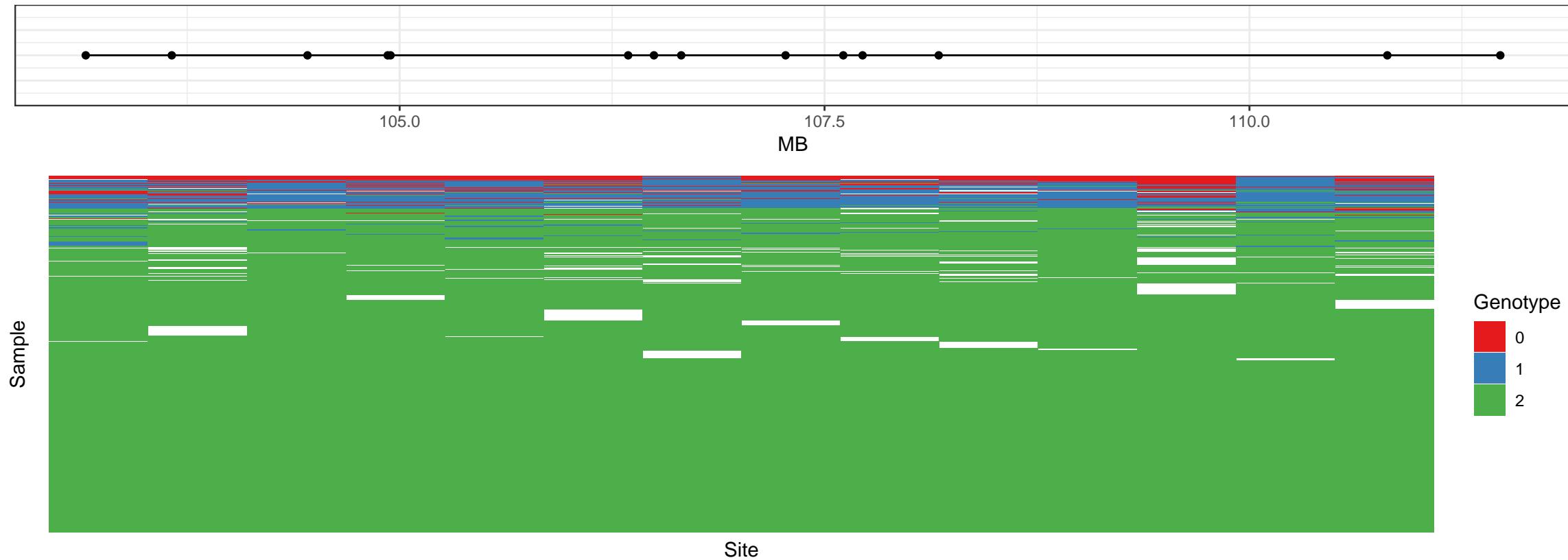


# Ha412HOChr02:103.153–111.476MB Size=8.323MB

1109\_0.65 BetweenSS = 0.968670787412159

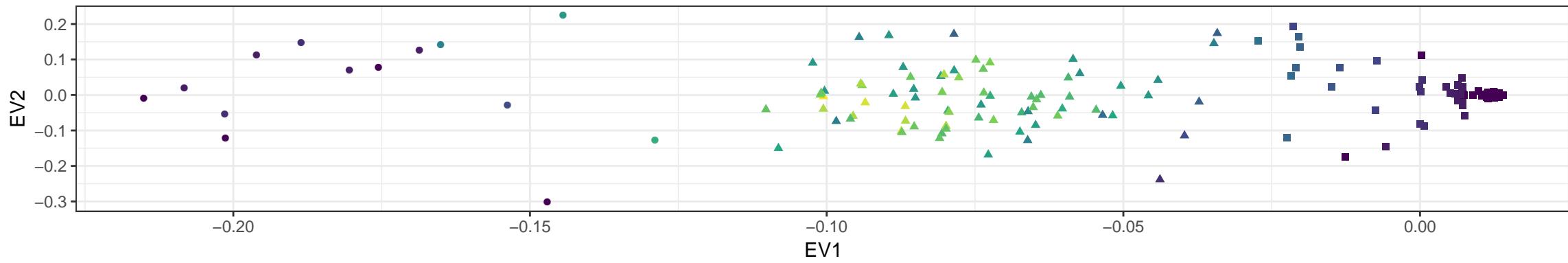


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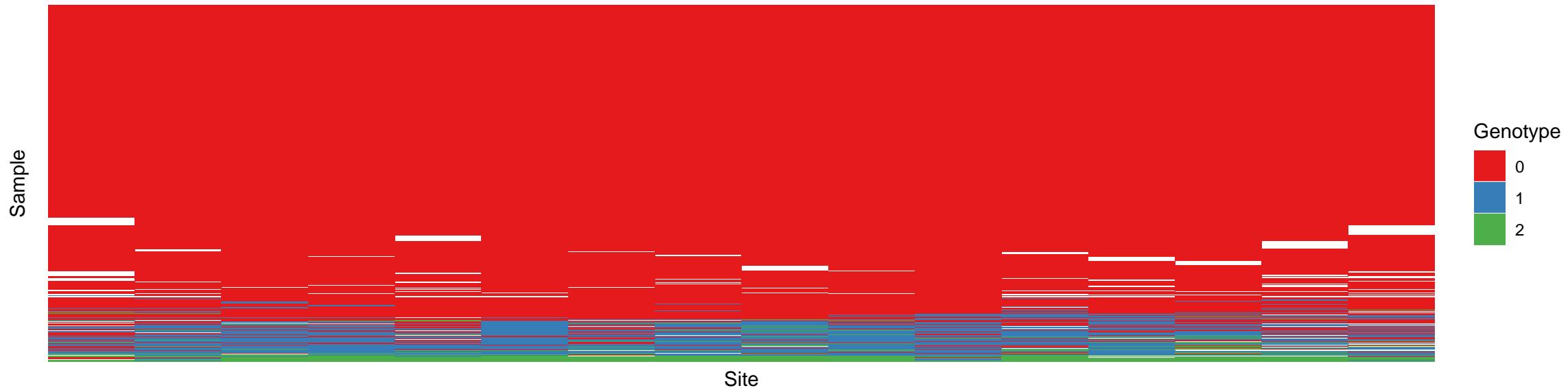
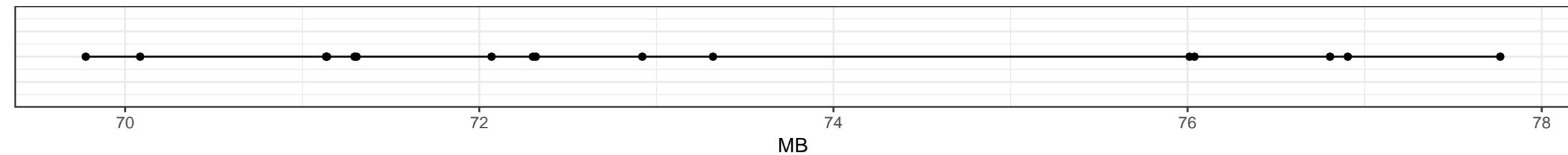


# Ha412HOChr10:69.777–77.766MB Size=7.989MB

1809\_0.55 BetweenSS = 0.952126782668973

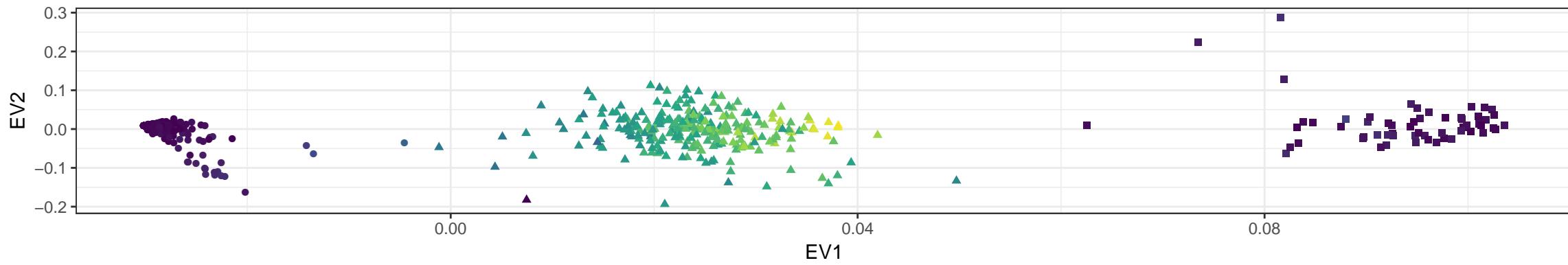


Ha412HOChr10

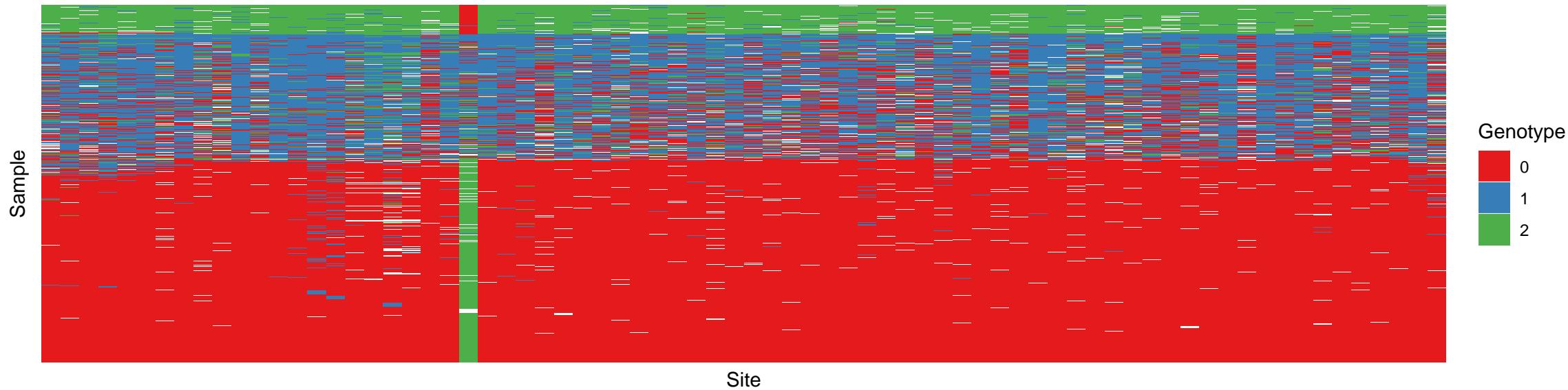
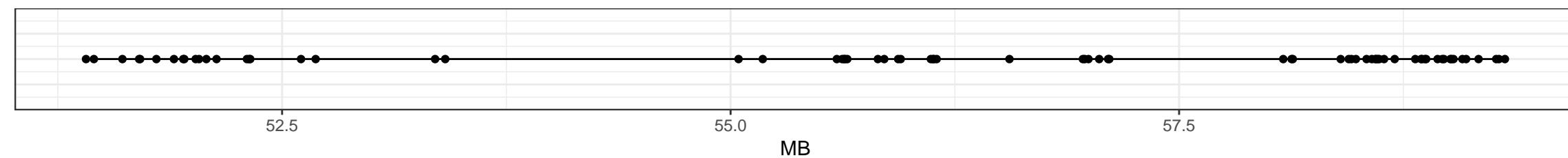


# Ha412HOChr07:51.407–59.316MB Size=7.909MB

1151\_0.58 BetweenSS = 0.982759458512354

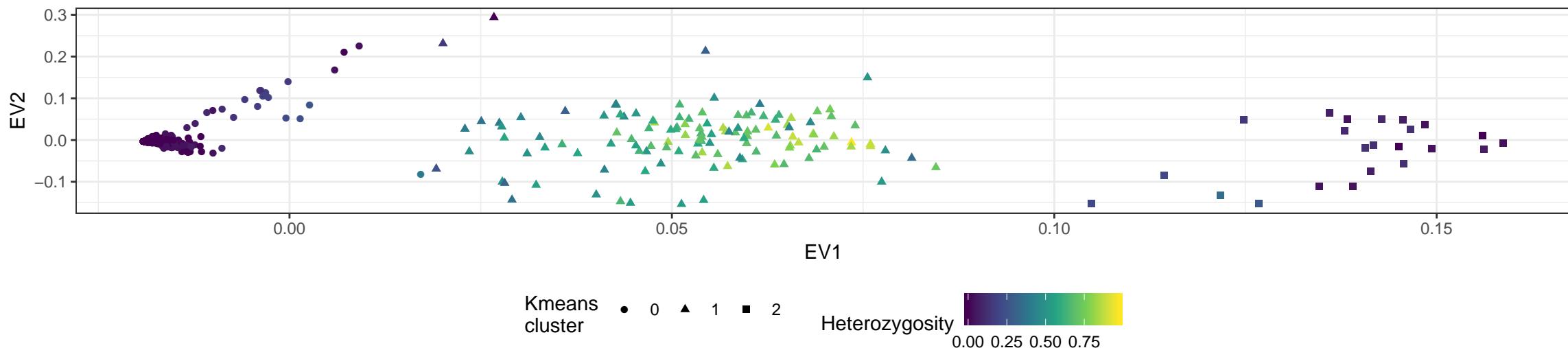


Ha412HOChr07

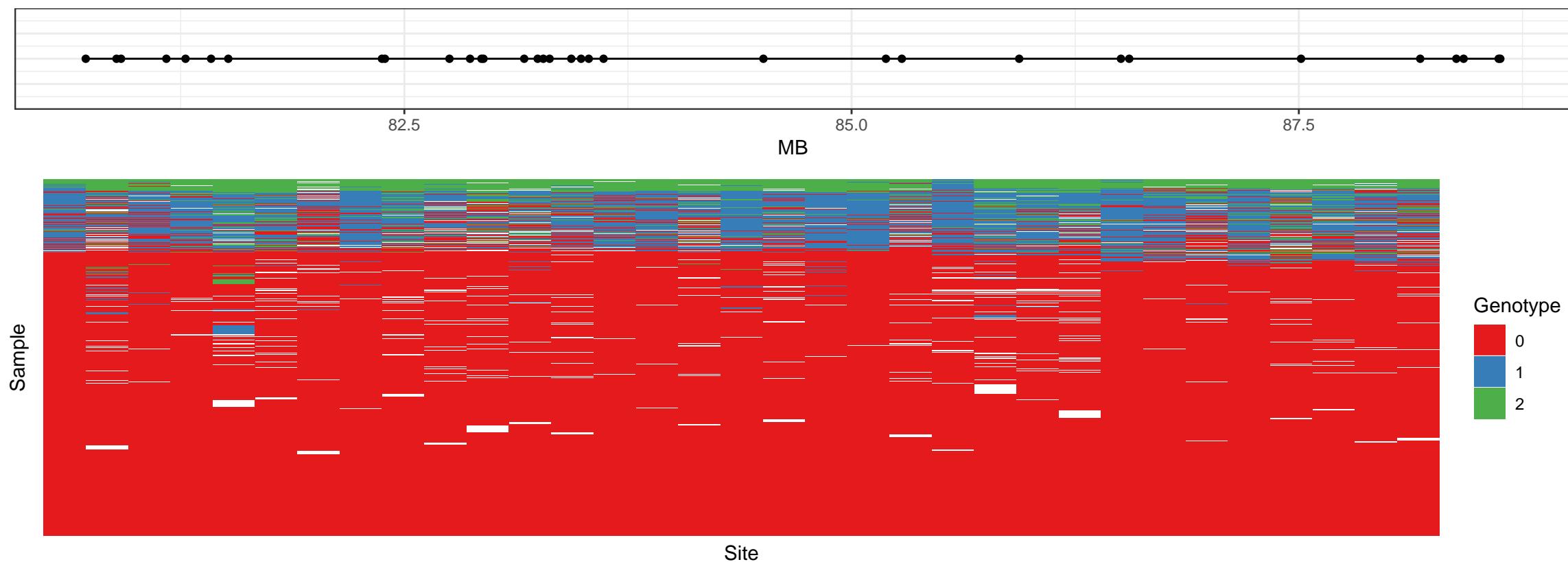


# Ha412HOChr02:80.719–88.626MB Size=7.907MB

1973\_0.5 BetweenSS = 0.962677440862961

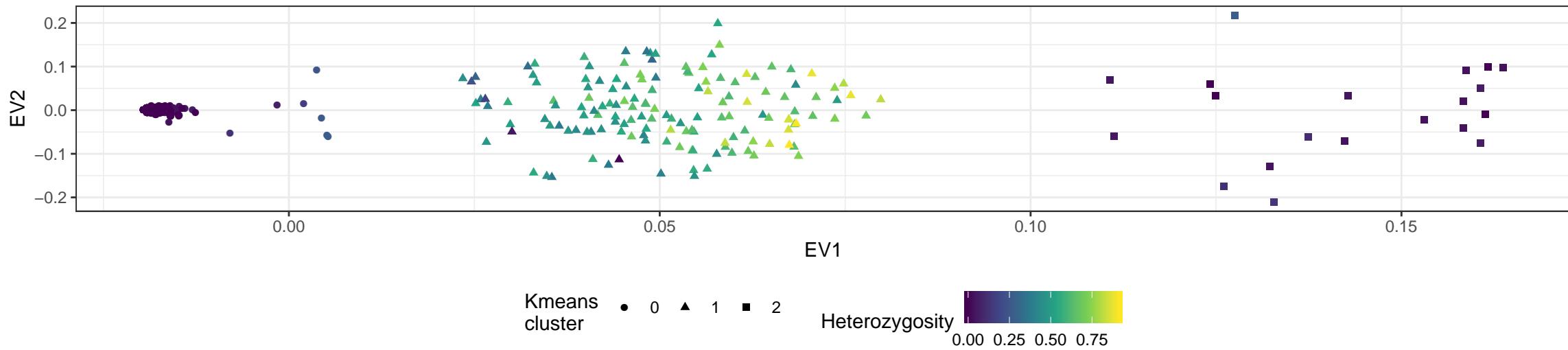


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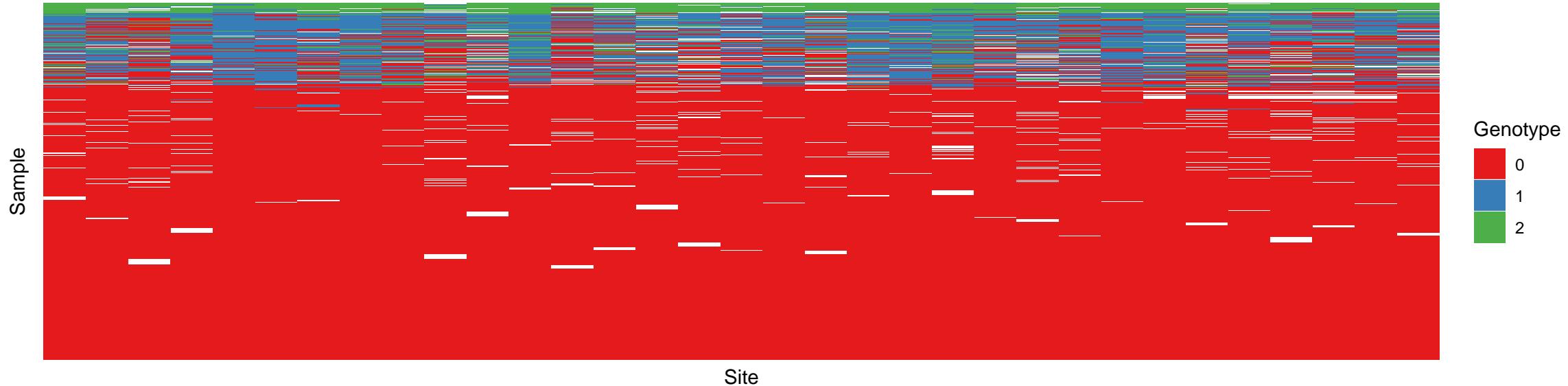
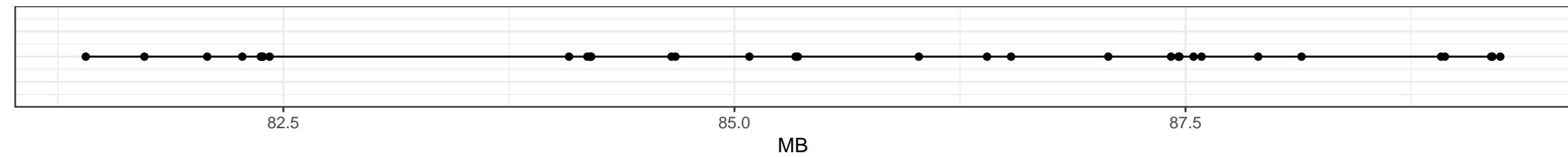


# Ha412HOChr05:81.405–89.244MB Size=7.839MB

1557\_0.54 BetweenSS = 0.965974237346783

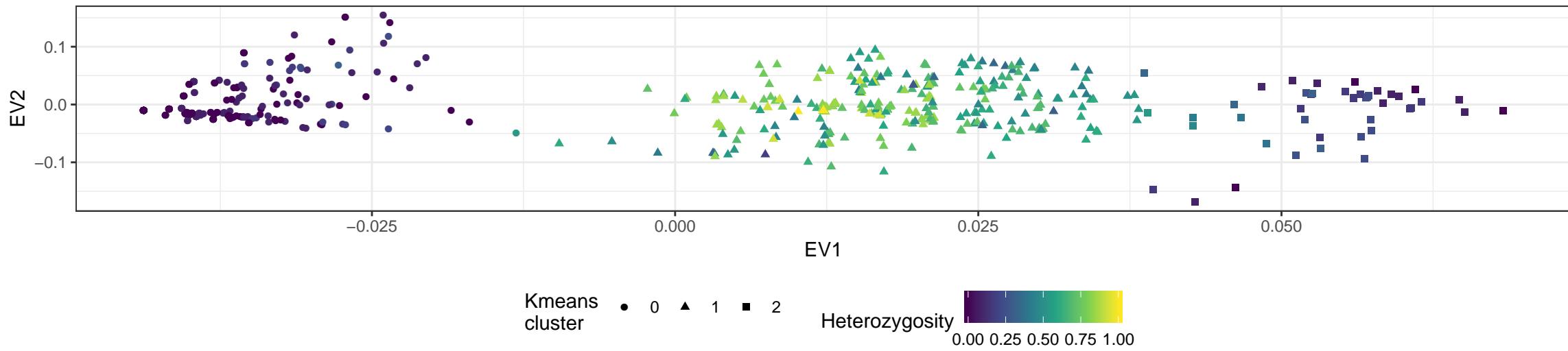


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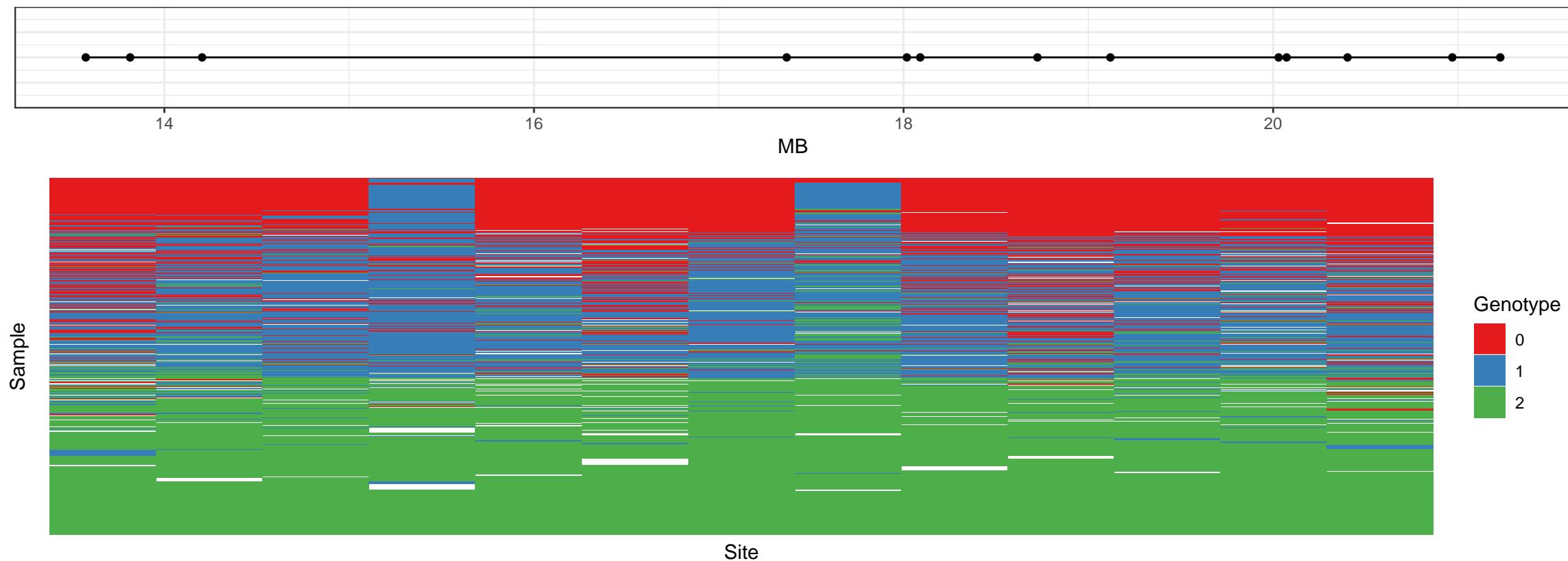


# Ha412HOChr01:13.575–21.229MB Size=7.655MB

1279\_0.49 BetweenSS = 0.963669151860946

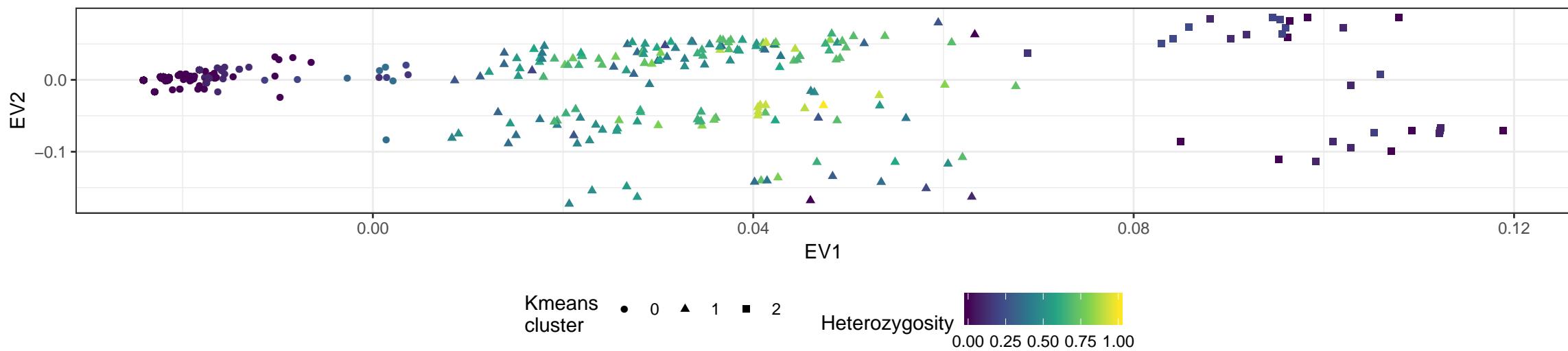


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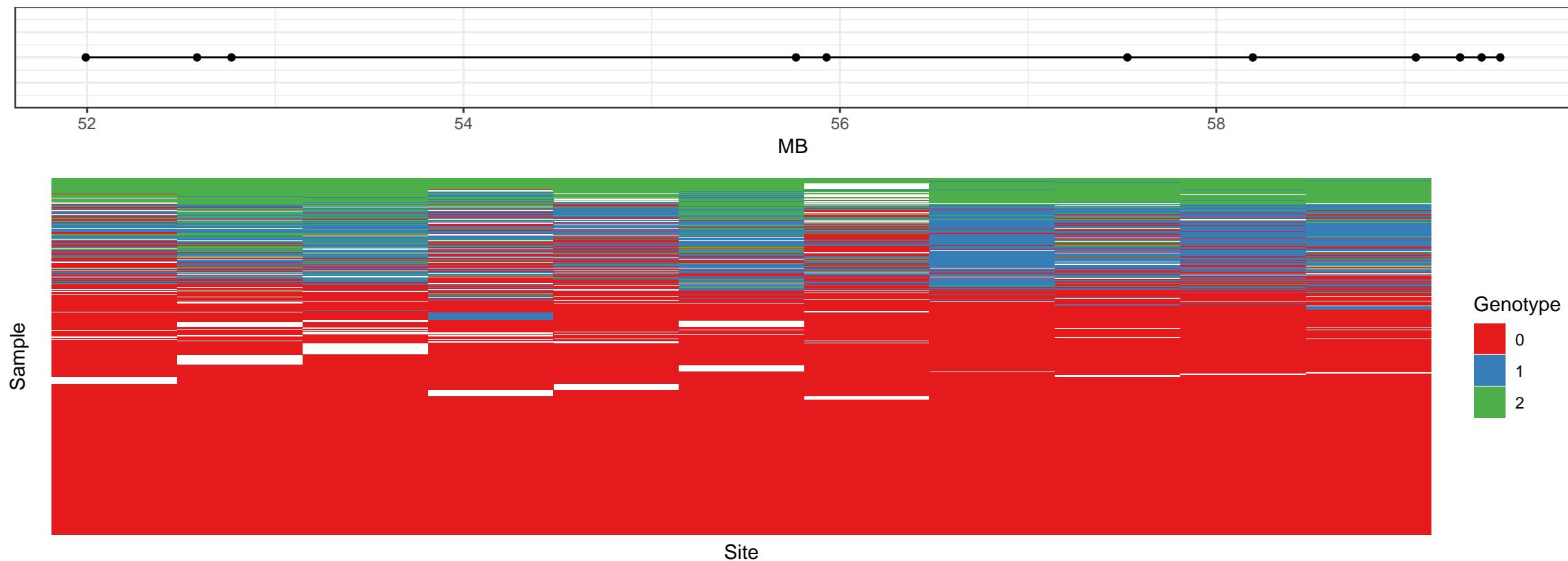


# Ha412HOChr07:51.993–59.508MB Size=7.515MB

1750\_0.46 BetweenSS = 0.956407658091831

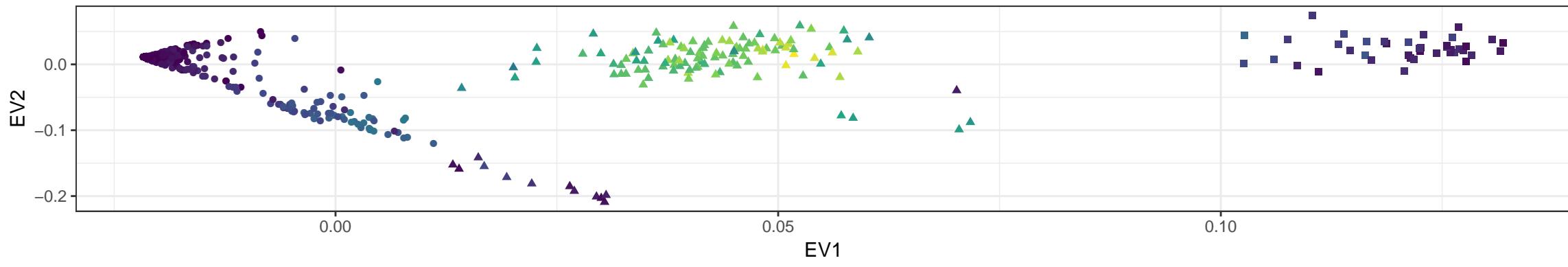


Ha412HOChr07

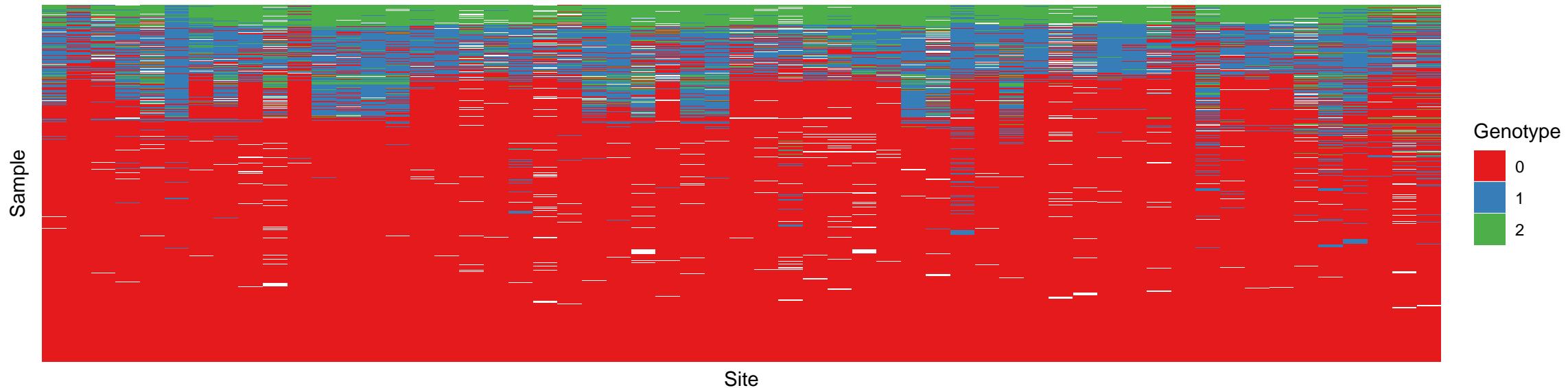
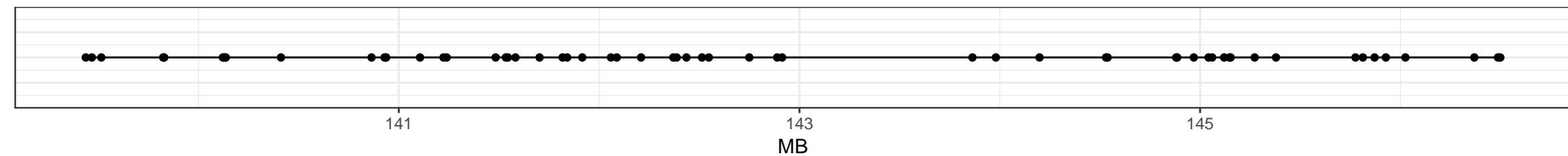


# Ha412HOChr12:139.437–146.498MB Size=7.061MB

2310\_0.47 BetweenSS = 0.955181522070047

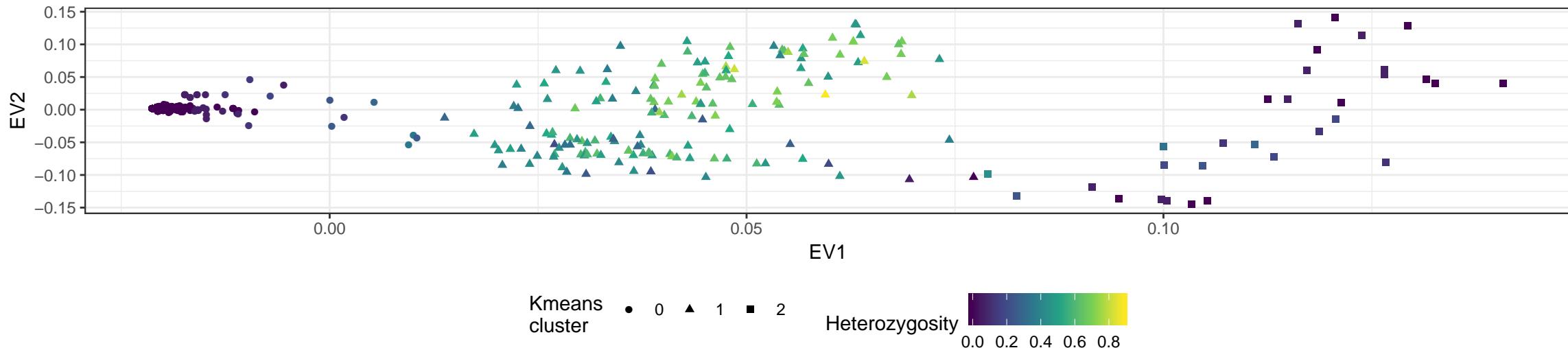


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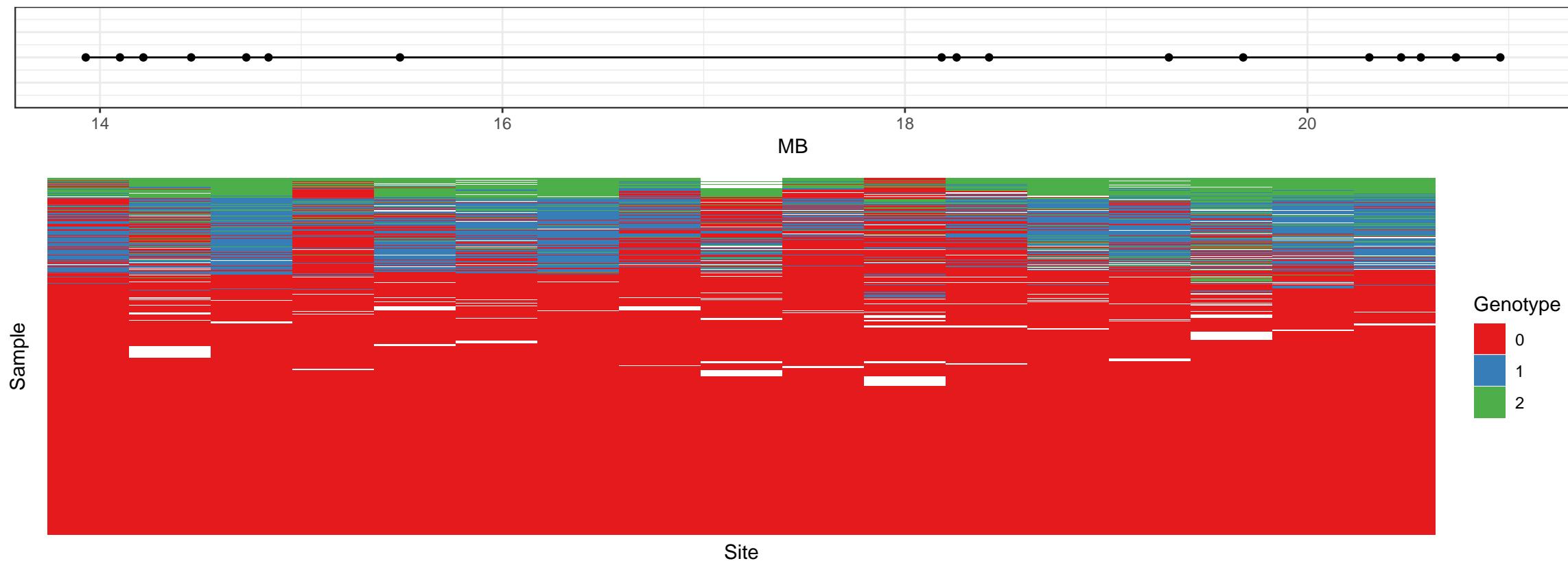


# Ha412HOChr01:13.929–20.958MB Size=7.029MB

1702\_0.38 BetweenSS = 0.956437744605371

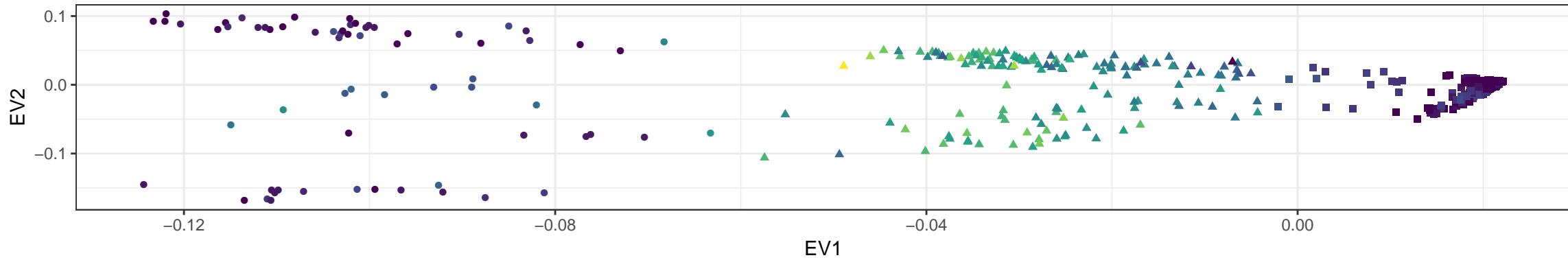


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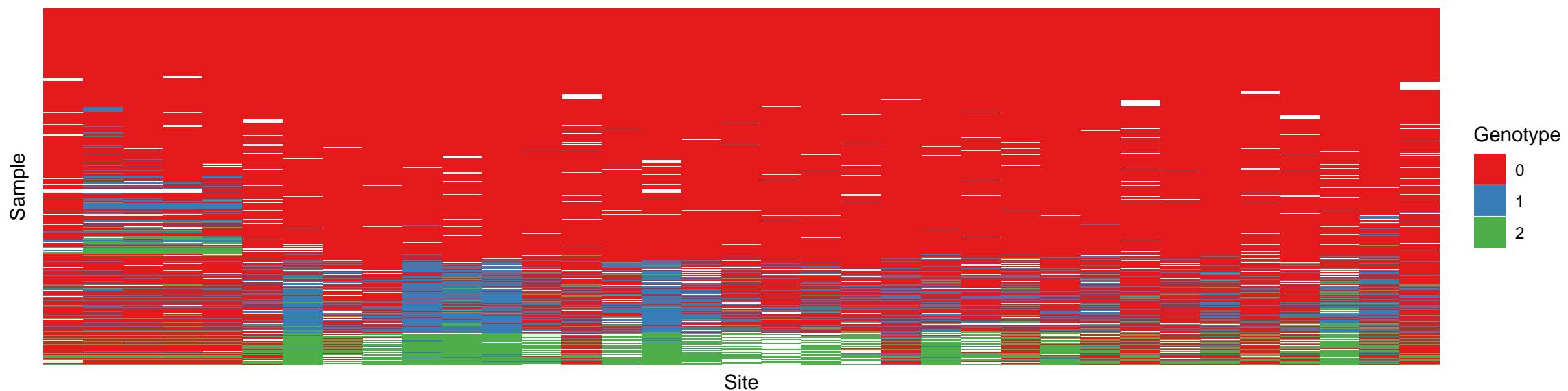


# Ha412HOChr10:100.08–107.028MB Size=6.948MB

2556\_0.4 BetweenSS = 0.964341395272153

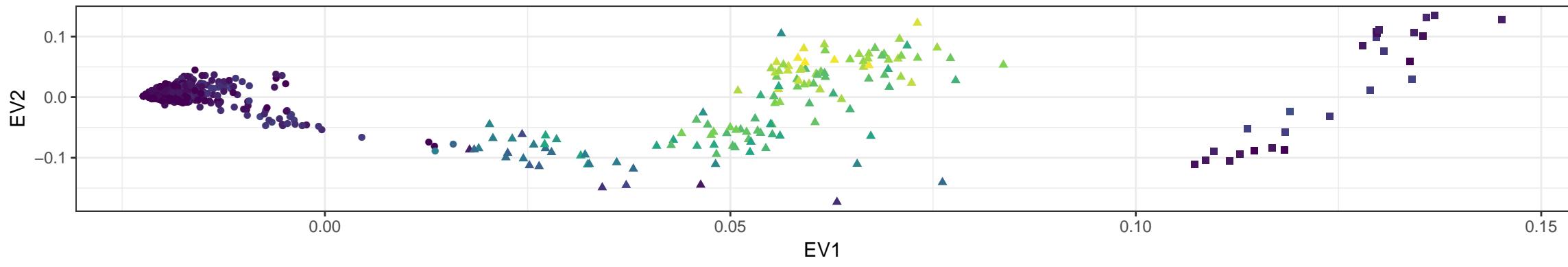


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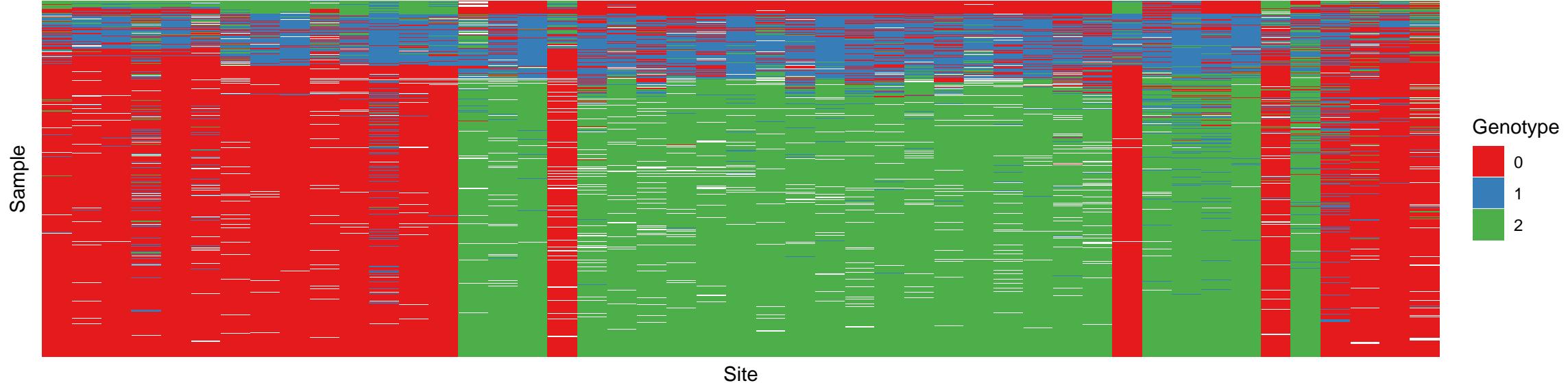
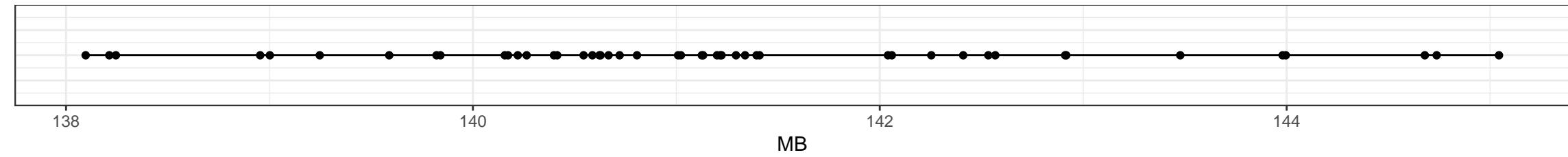


# Ha412HOChr08:138.097–145.044MB Size=6.947MB

2304\_0.31 BetweenSS = 0.953160135728346

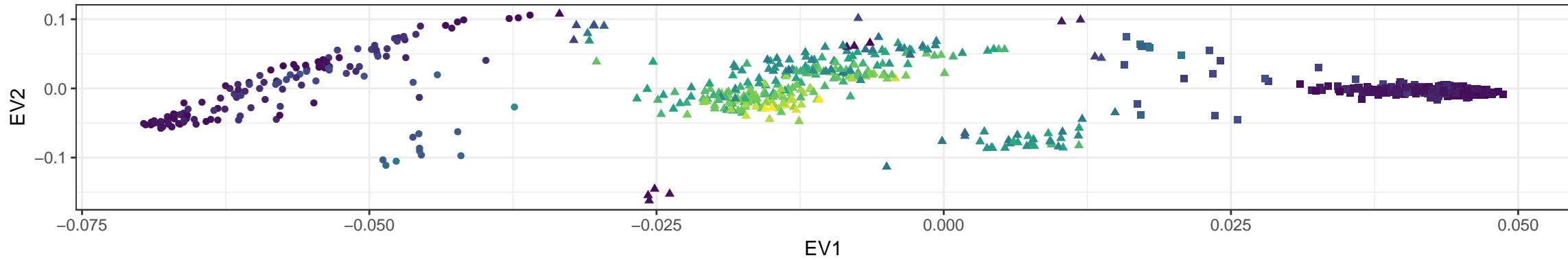


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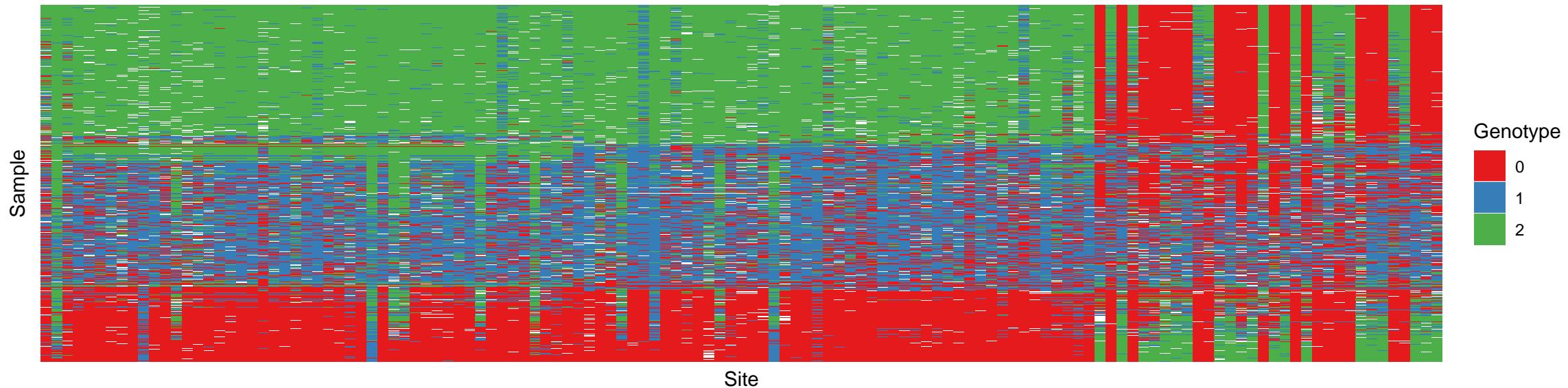
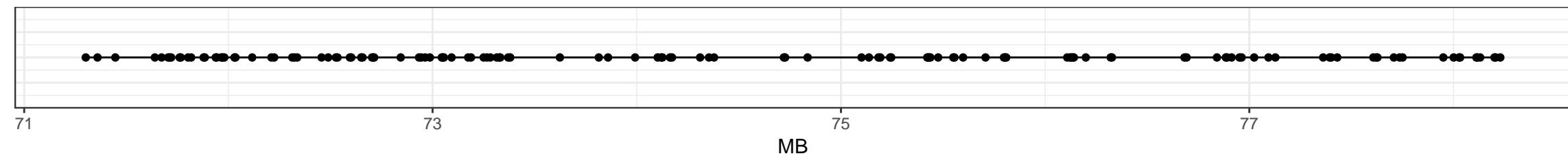


# Ha412HOChr10:71.302–78.229MB Size=6.927MB

2164\_0.48 BetweenSS = 0.950619454086482

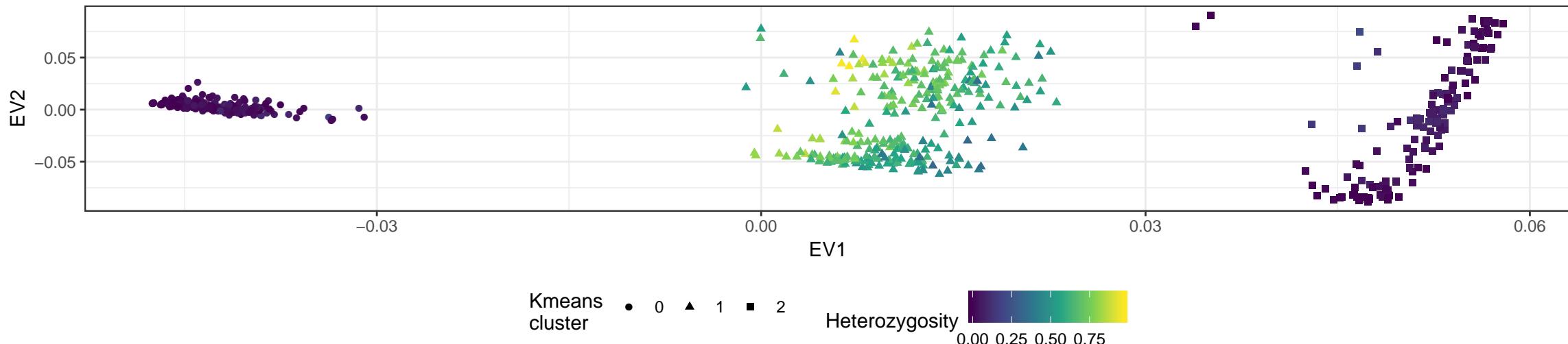


Ha412HOChr10

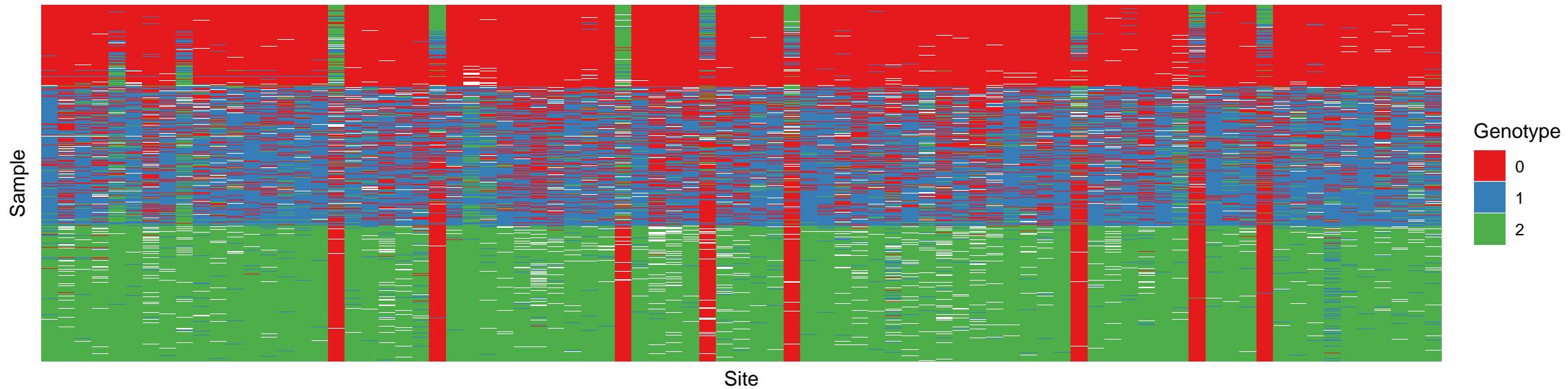
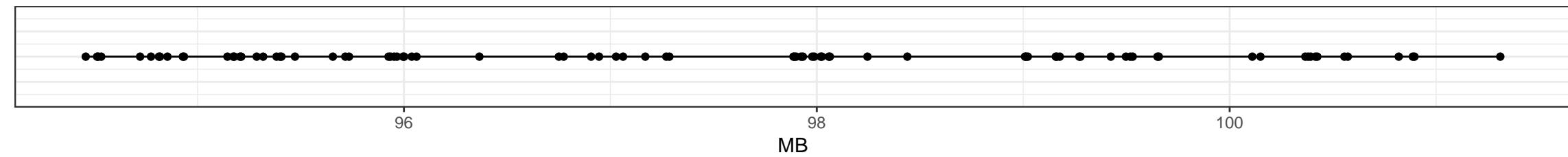


# Ha412HOChr11:94.459–101.311MB Size=6.852MB

1673\_0.52 BetweenSS = 0.988991558884259

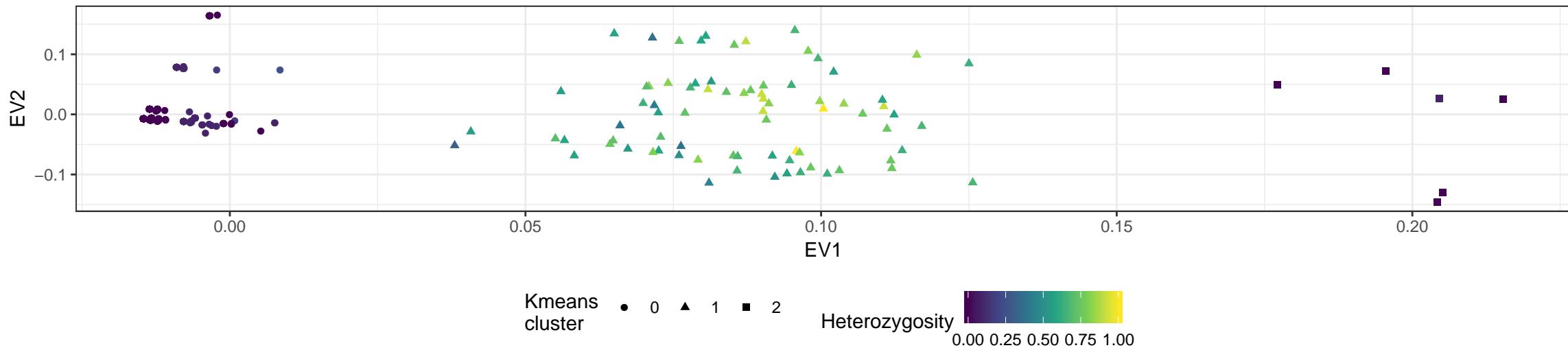


Ha412HOChr11

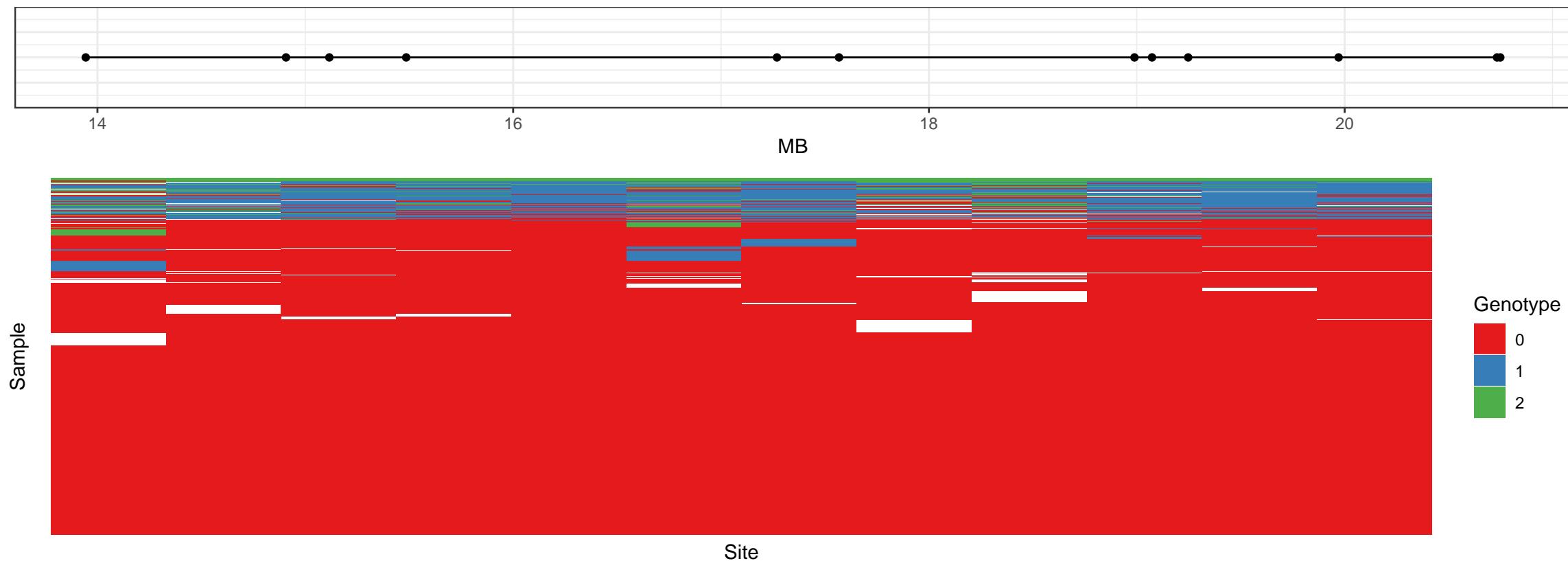


# Ha412HOChr01:13.944–20.749MB Size=6.805MB

2119\_0.27 BetweenSS = 0.965070123665003

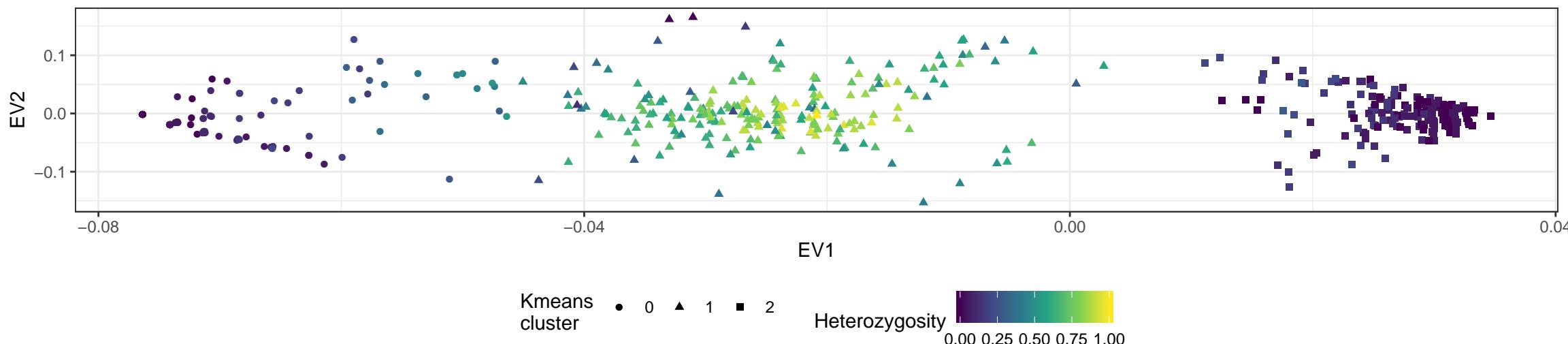


Ha412HOChr01

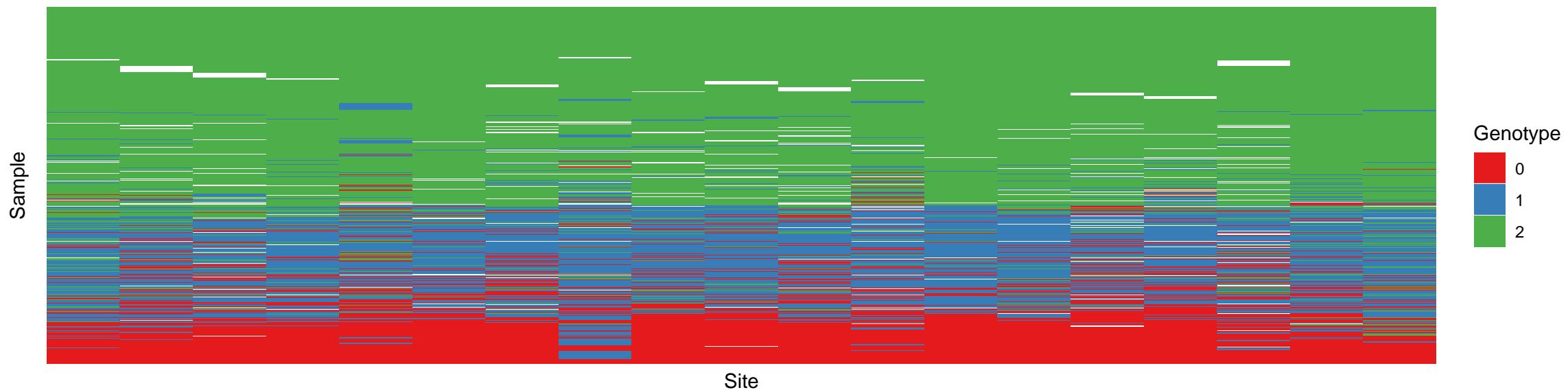
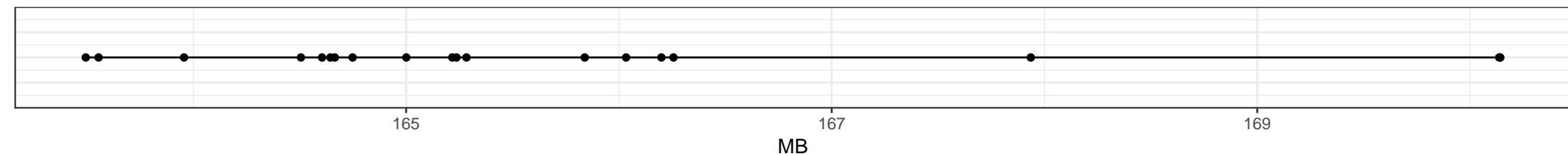


# Ha412HOChr08:163.494–170.142MB Size=6.648MB

1121\_0.57 BetweenSS = 0.966843739907018

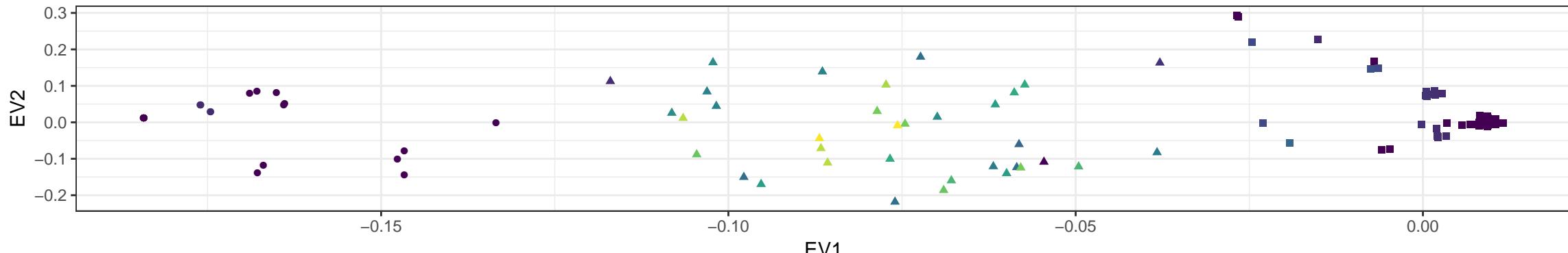


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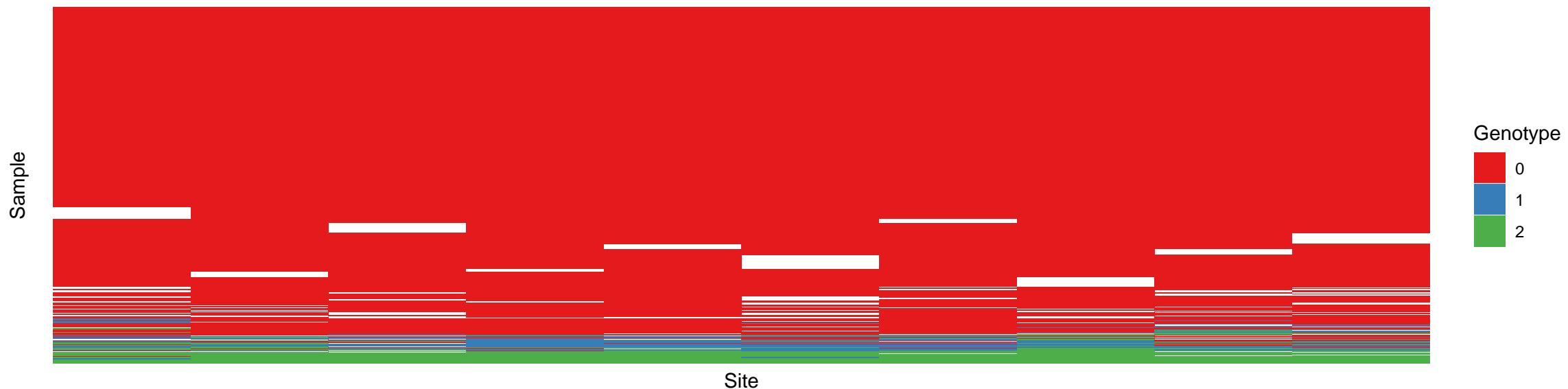


# Ha412HOChr01:37.666–44.208MB Size=6.542MB

674\_0.64 BetweenSS = 0.970514676304408

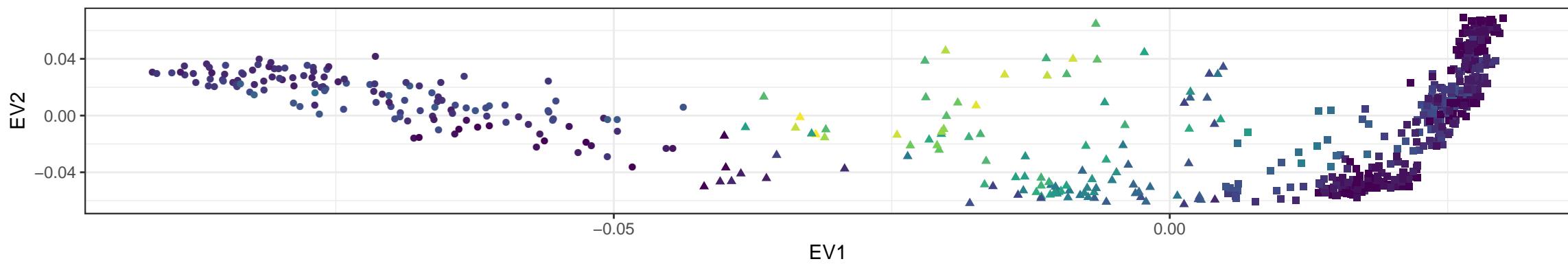


Ha412HOChr01

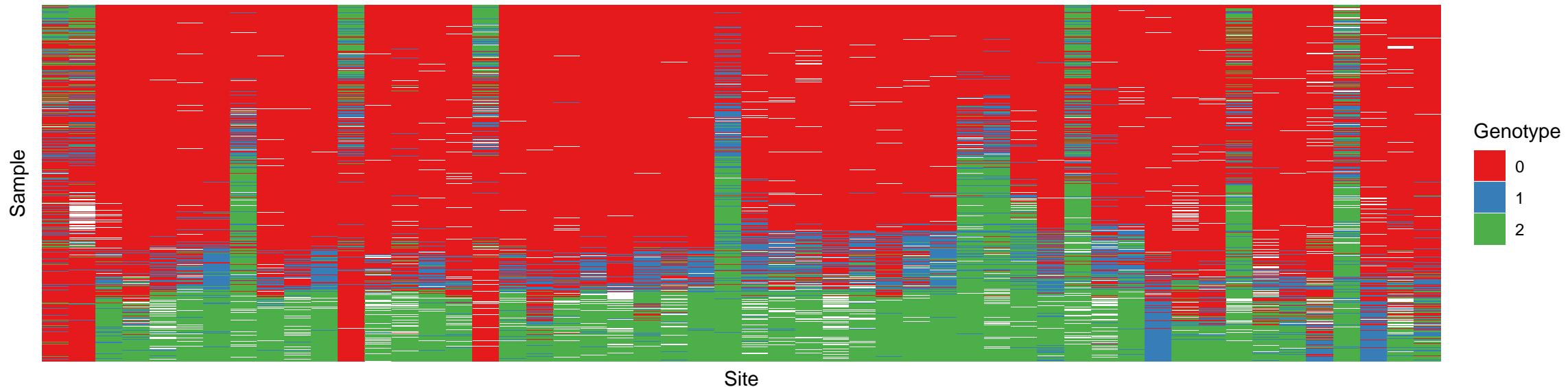
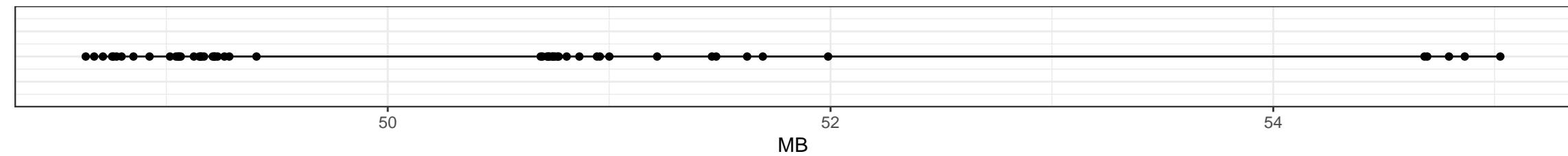


# Ha412HOChr12:48.636–55.025MB Size=6.39MB

2708\_0.38 BetweenSS = 0.951434902802881

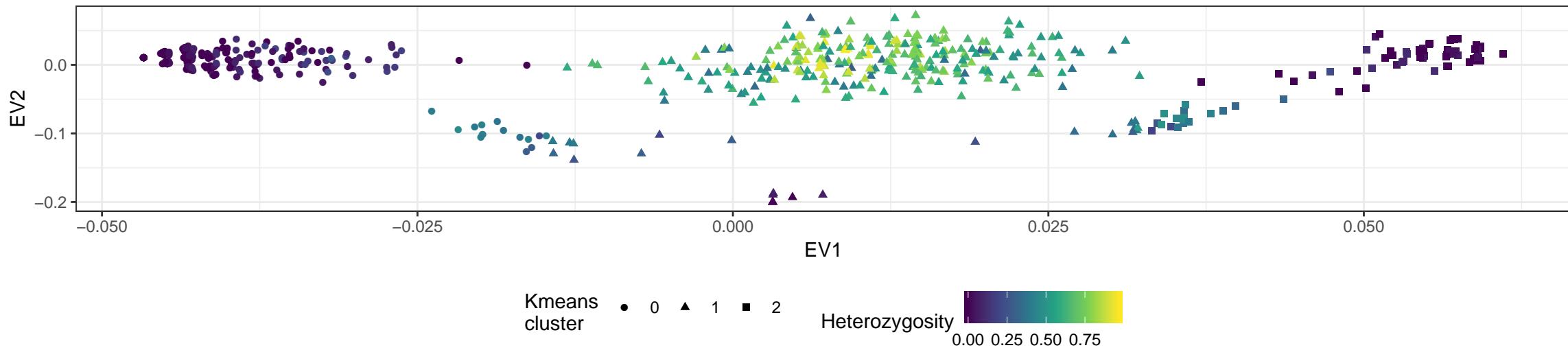


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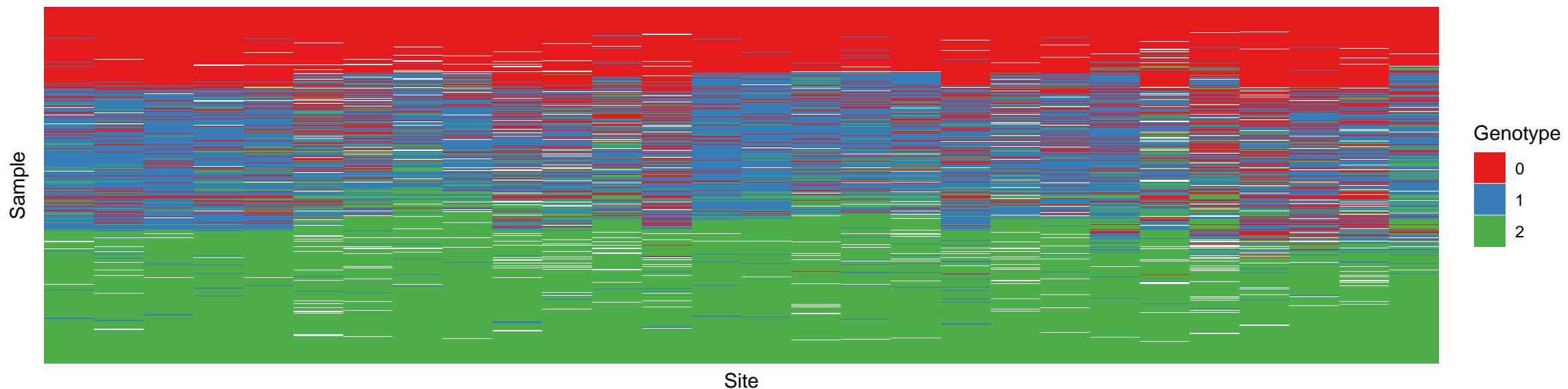
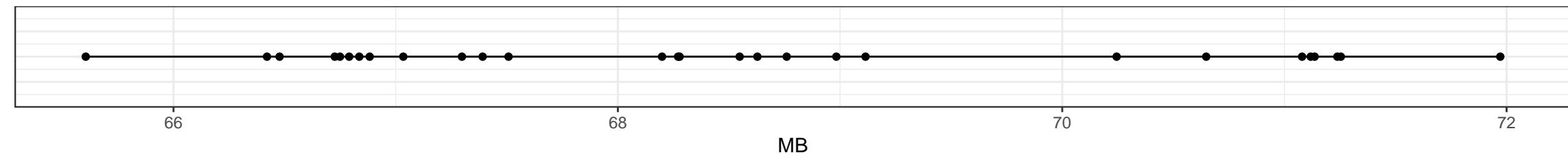


# Ha412HOChr03:65.605–71.972MB Size=6.366MB

745\_0.64 BetweenSS = 0.95054540799509

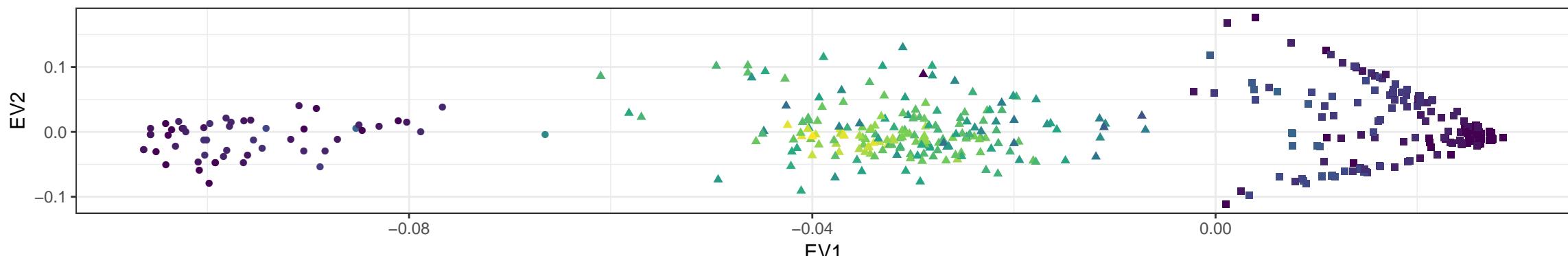


Ha412HOChr03



# Ha412HOChr09:77.51–83.833MB Size=6.323MB

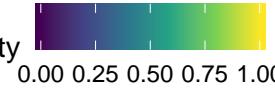
911\_0.59 BetweenSS = 0.958485460302431



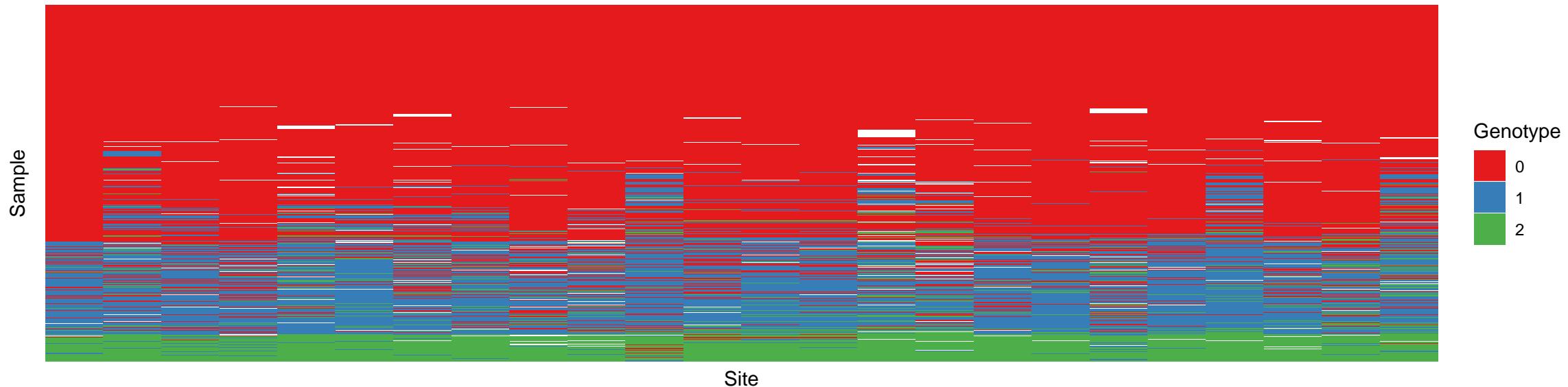
Kmeans  
cluster

• 0 ▲ 1 ■ 2

Heterozygosity



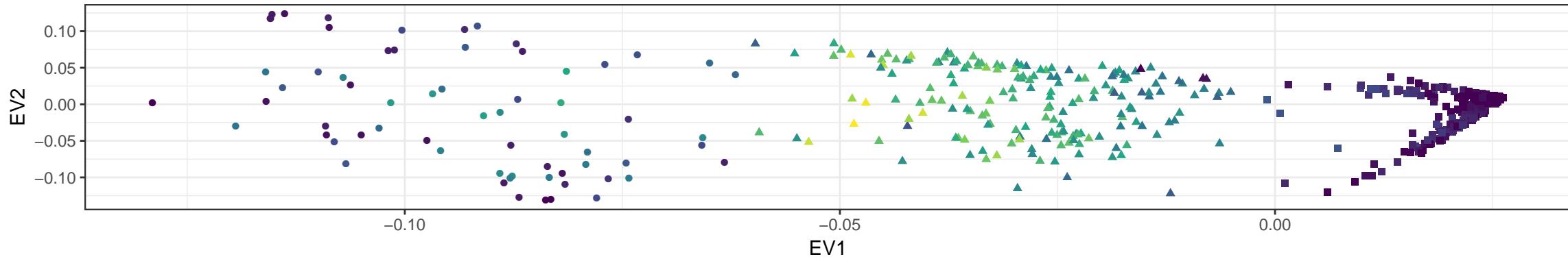
Ha412HOChr09



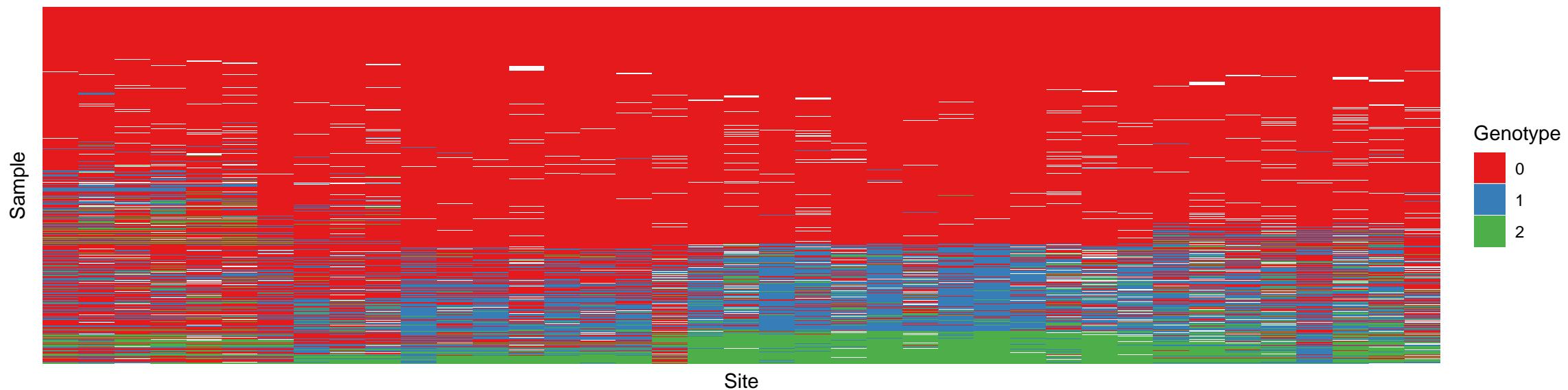
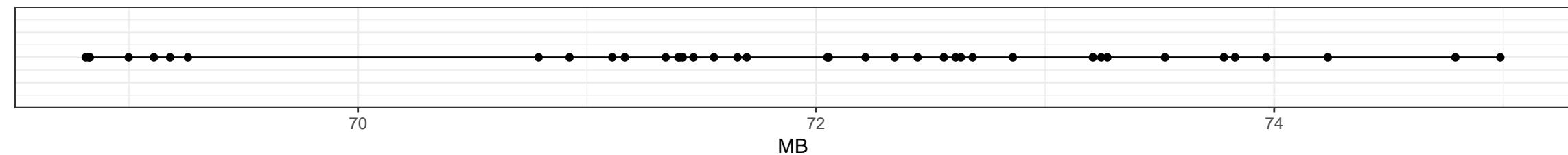
Genotype  
0  
1  
2

# Ha412HOChr10:68.812–74.987MB Size=6.175MB

2322\_0.45 BetweenSS = 0.951040732410291

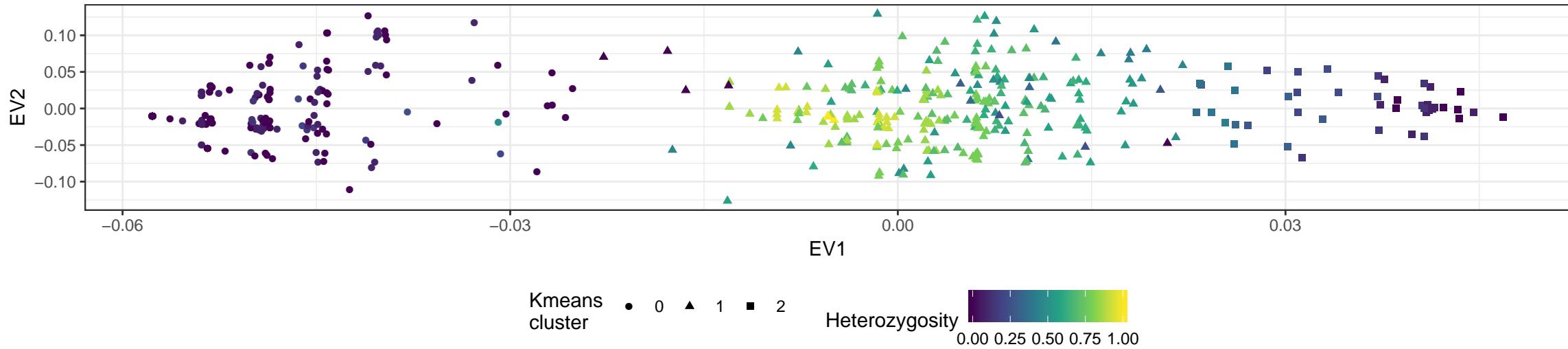


Ha412HOChr10

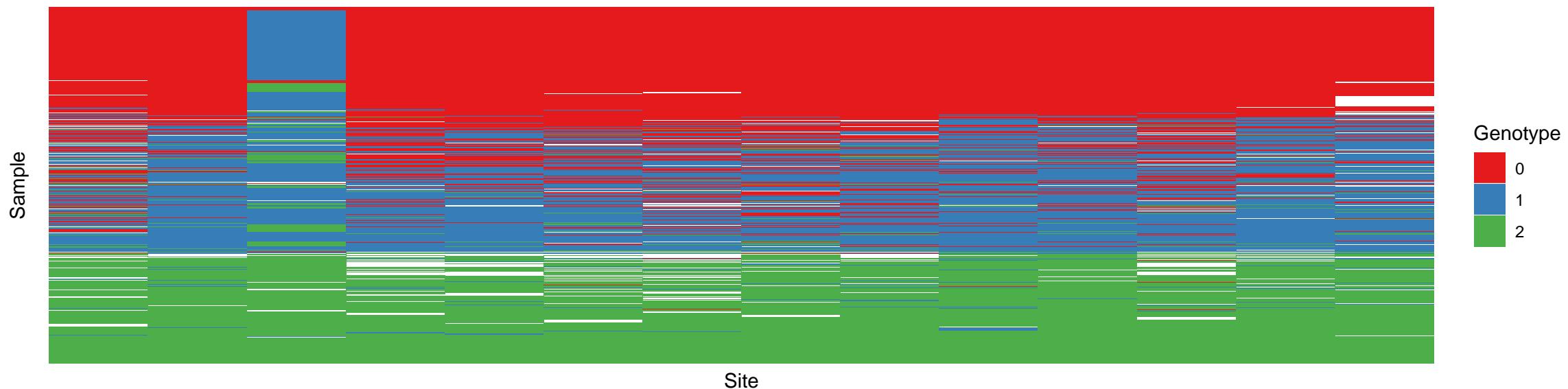
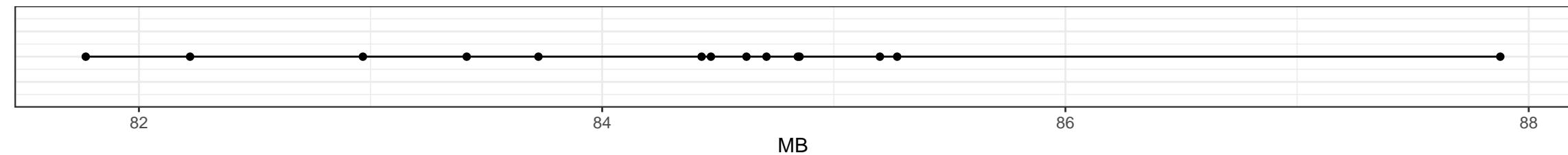


# Ha412HOChr10:81.77–87.877MB Size=6.107MB

2285\_0.46 BetweenSS = 0.966267564894433

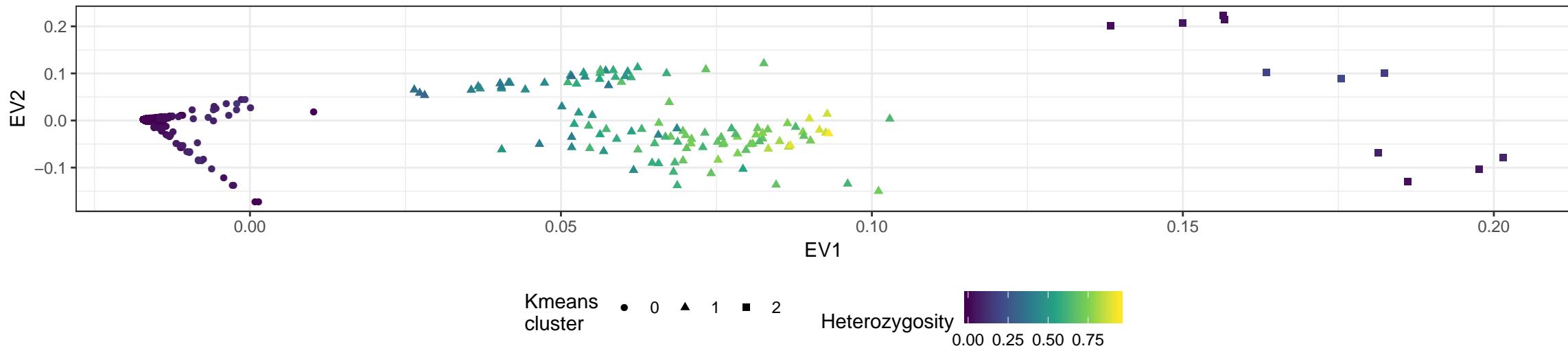


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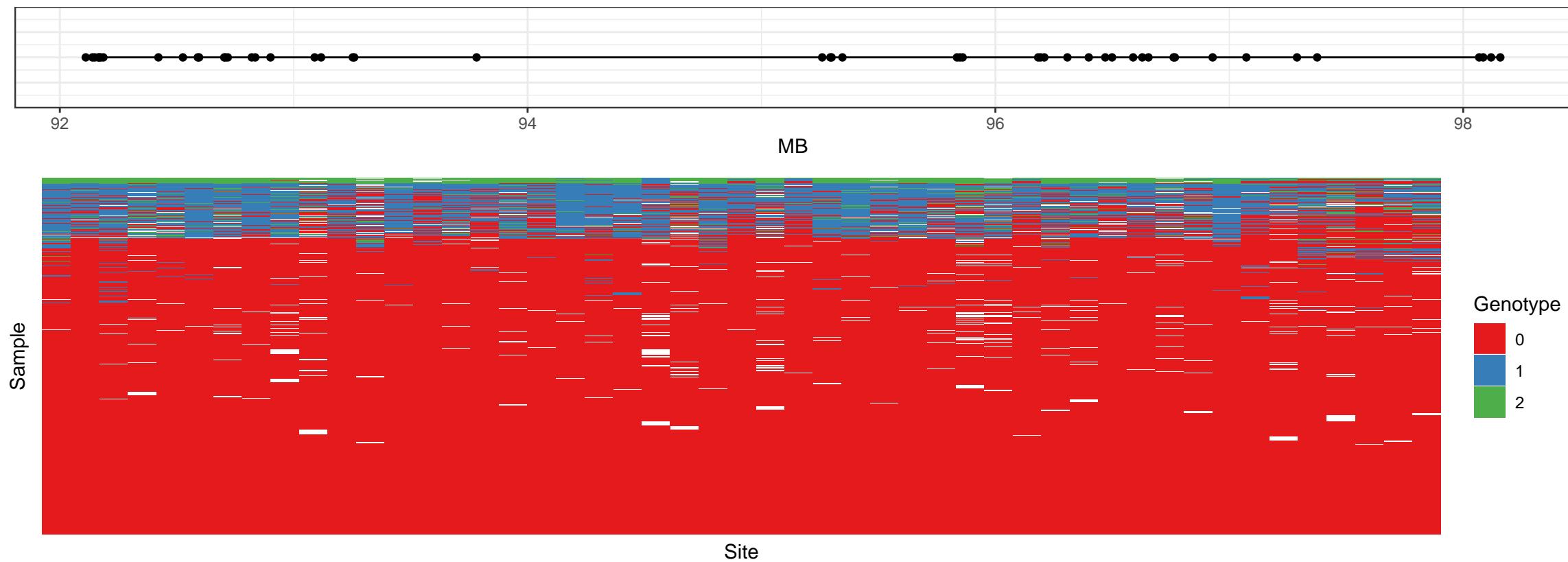


# Ha412HOChr02:92.111–98.159MB Size=6.048MB

1963\_0.5 BetweenSS = 0.959129522893366

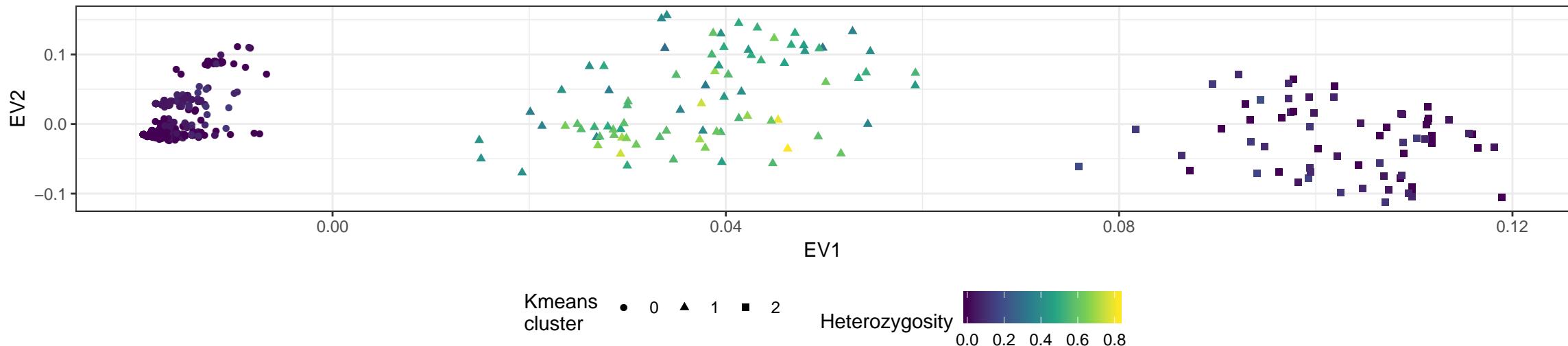


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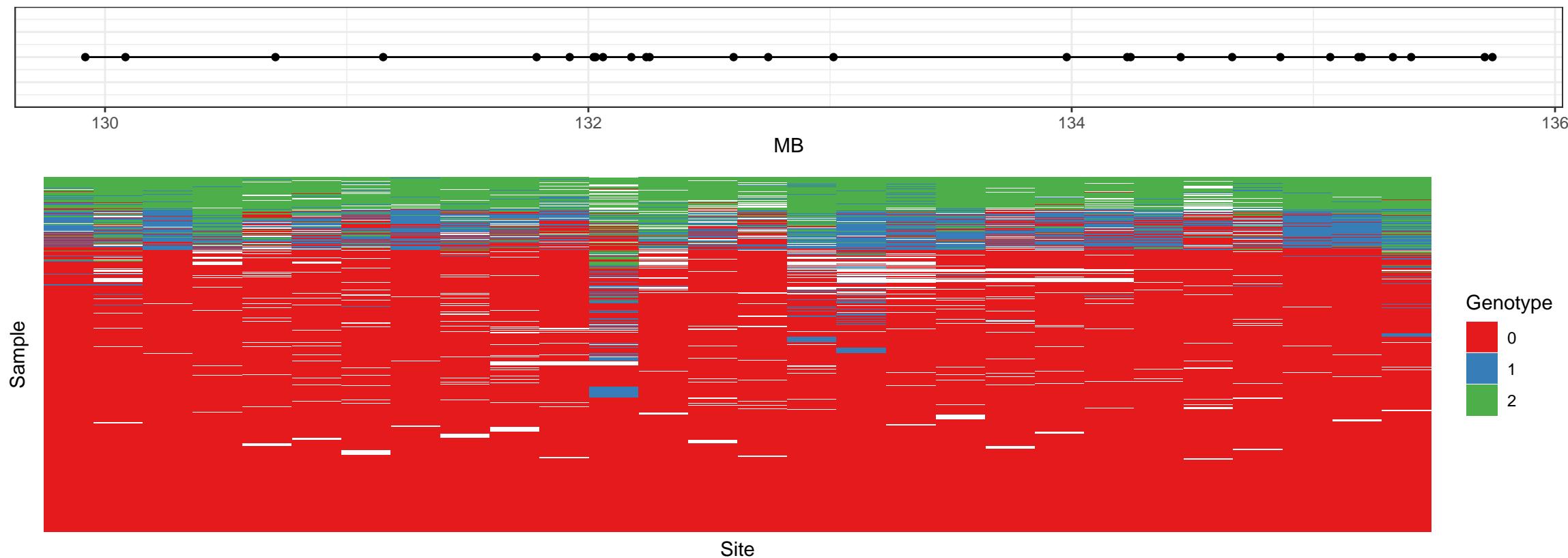


# Ha412HOChr06:129.918–135.741MB Size=5.823MB

1553\_0.57 BetweenSS = 0.983594141978672

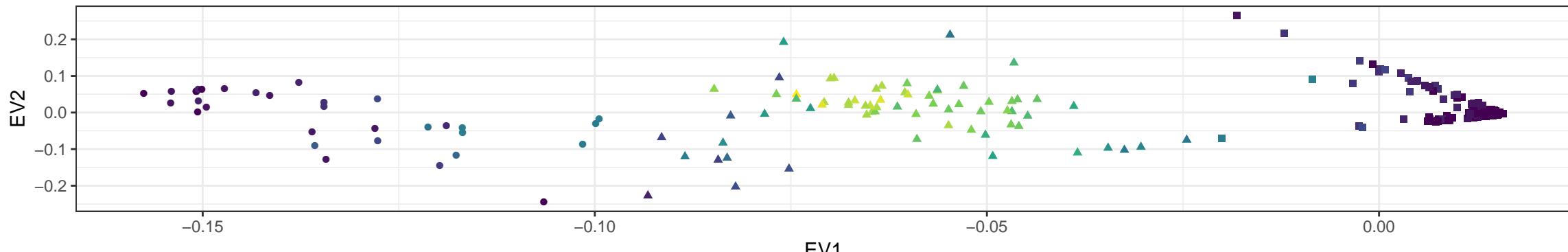


Ha412HOChr06

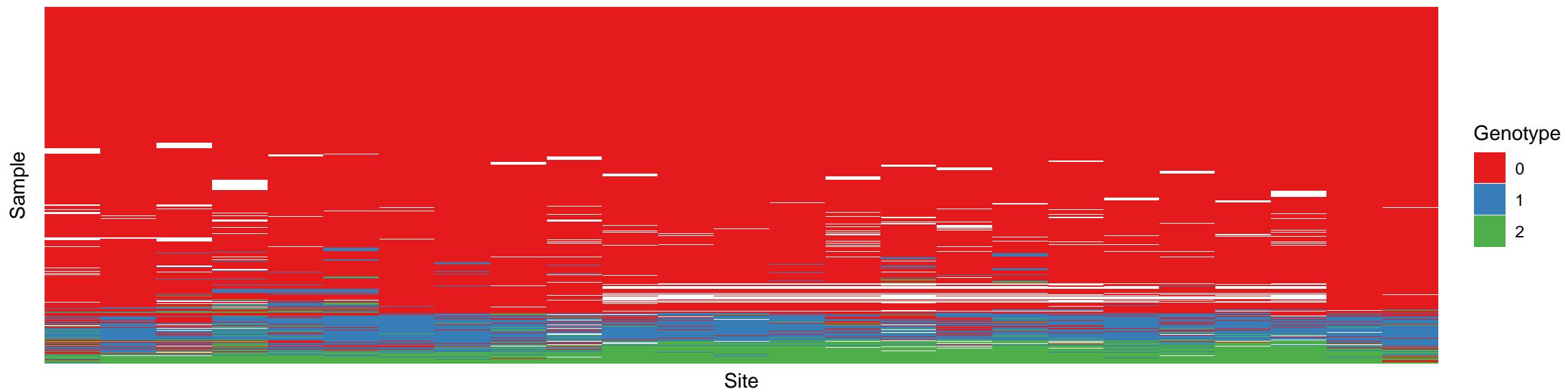
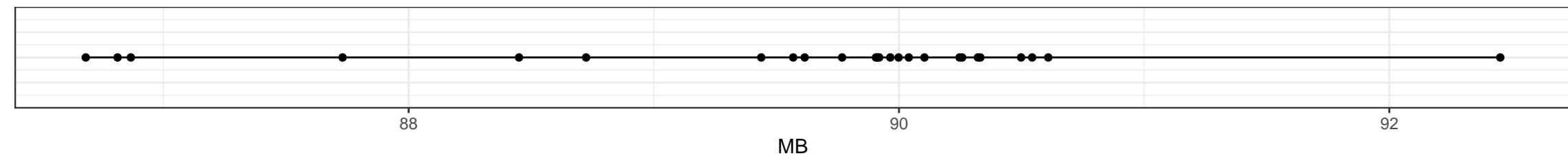


# Ha412HOChr17:86.683–92.452MB Size=5.769MB

1239\_0.6 BetweenSS = 0.965221718234977

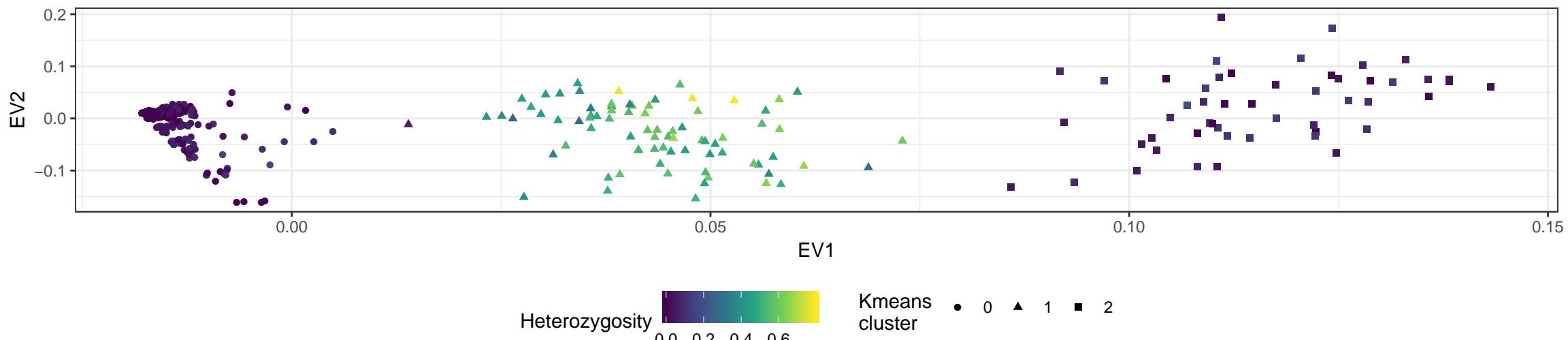


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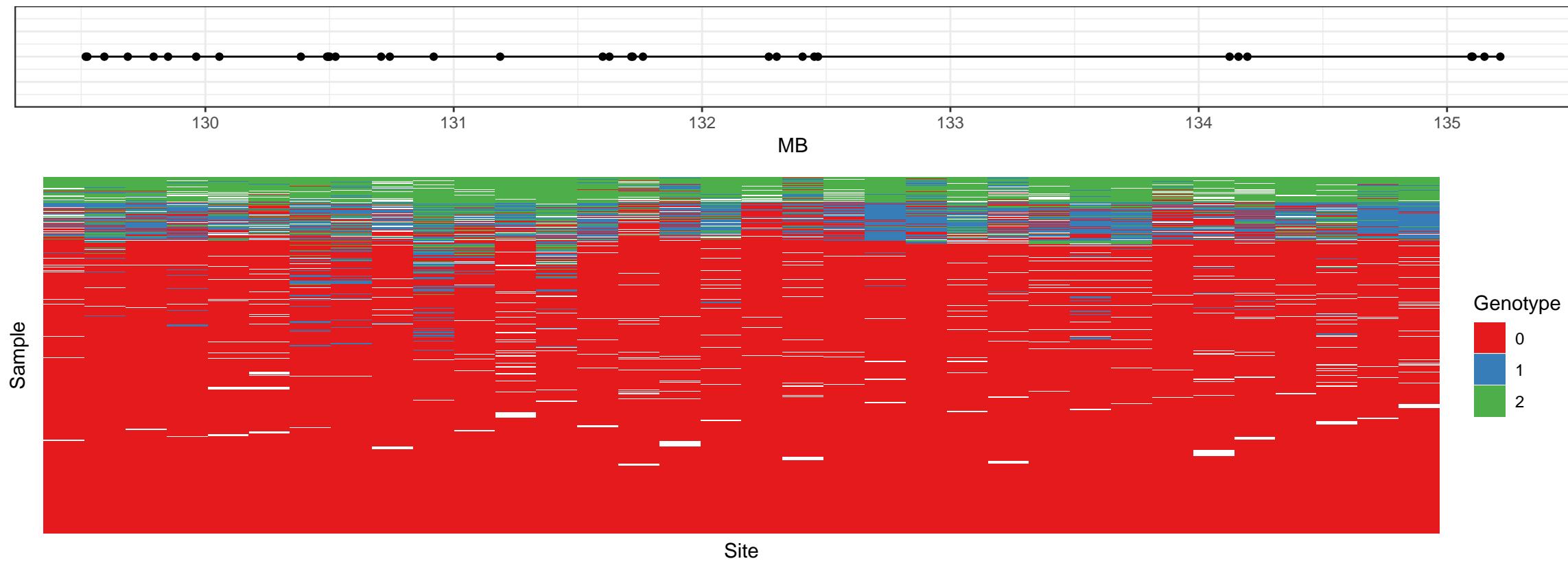


# Ha412HOChr14:129.518–135.214MB Size=5.696MB

1042\_0.58 BetweenSS = 0.977536279825311

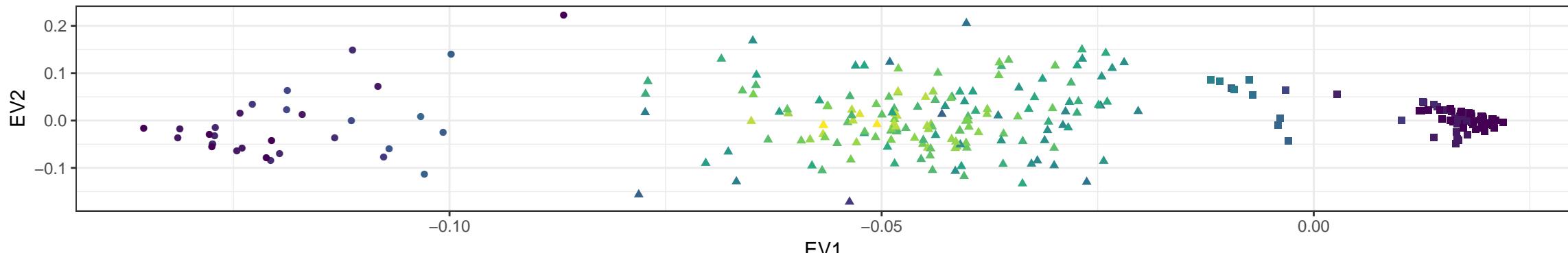


Ha412HOChr14



# Ha412HOChr17:107.667–113.231MB Size=5.564MB

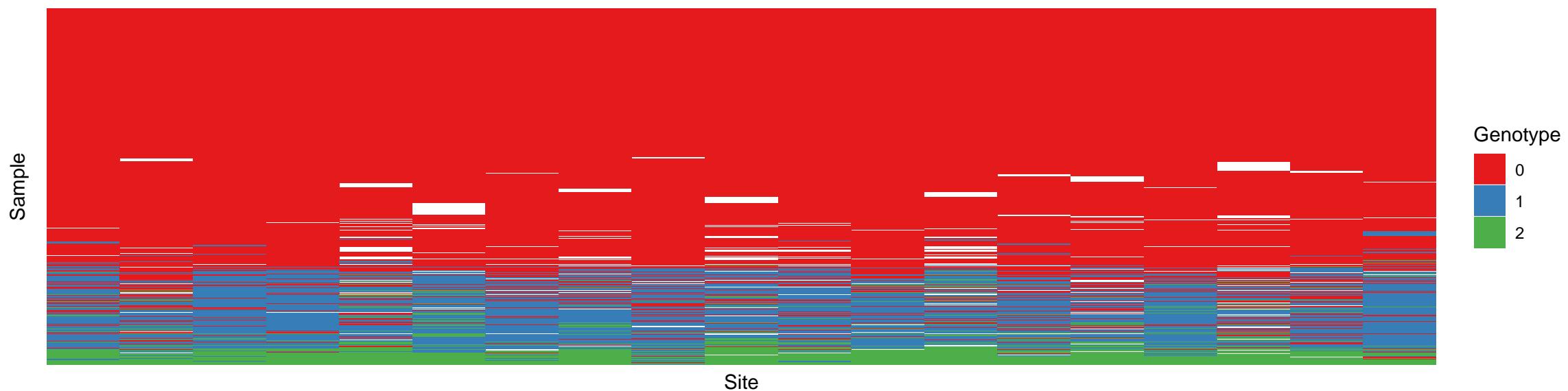
1431\_0.58 BetweenSS = 0.961932764039092



Kmeans  
cluster

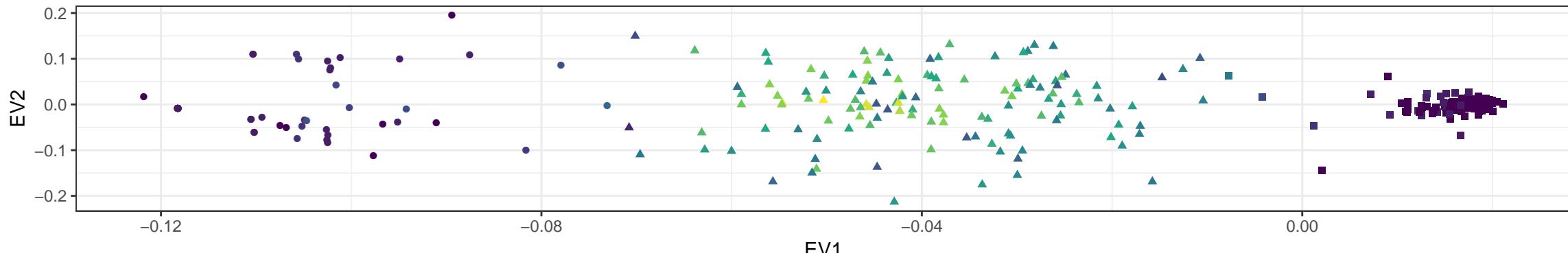
Heterozygosity  
0.00 0.25 0.50 0.75 1.00

Ha412HOChr17

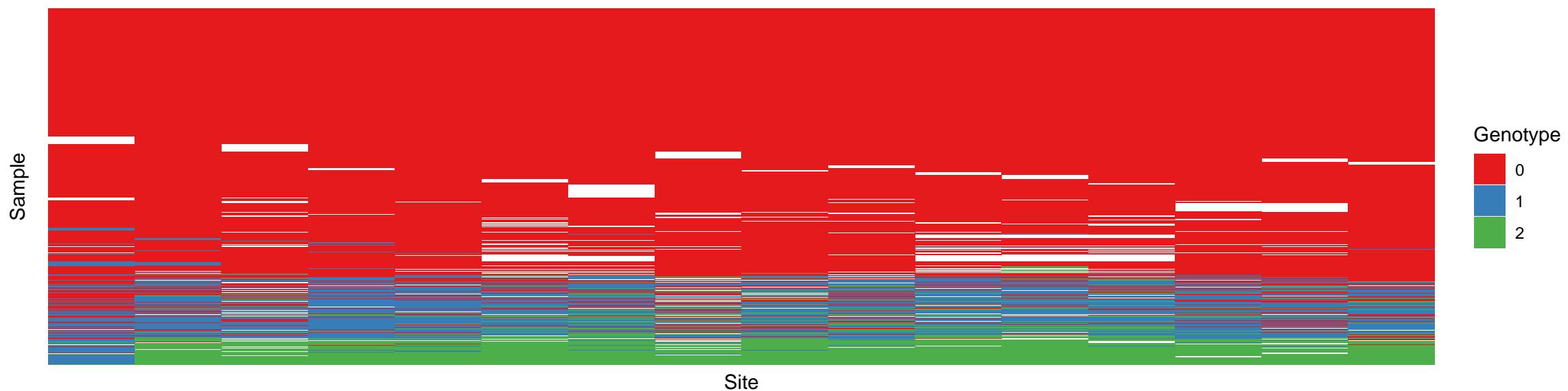


# Ha412HOChr06:129.792–135.339MB Size=5.547MB

1746\_0.53 BetweenSS = 0.965657519259516

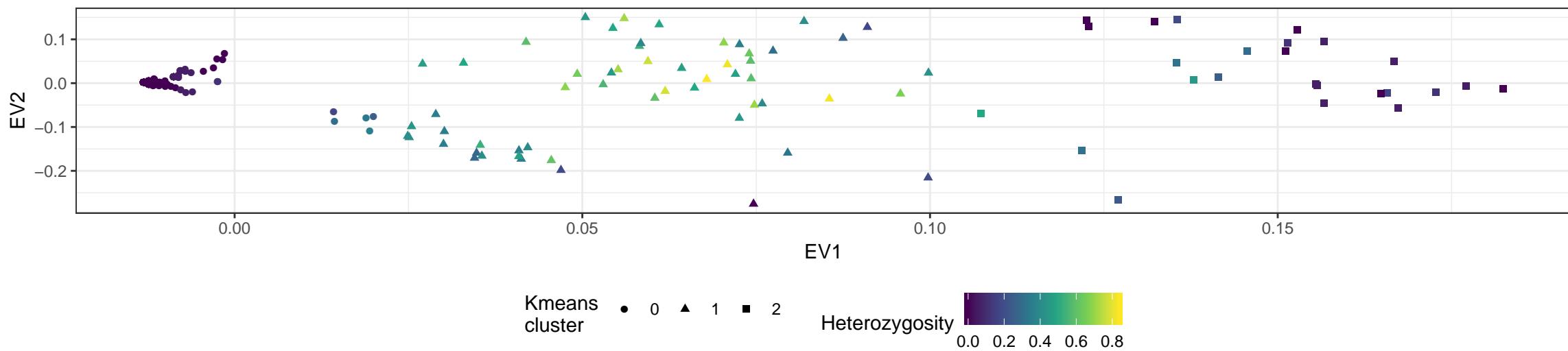


Ha412HOChr06

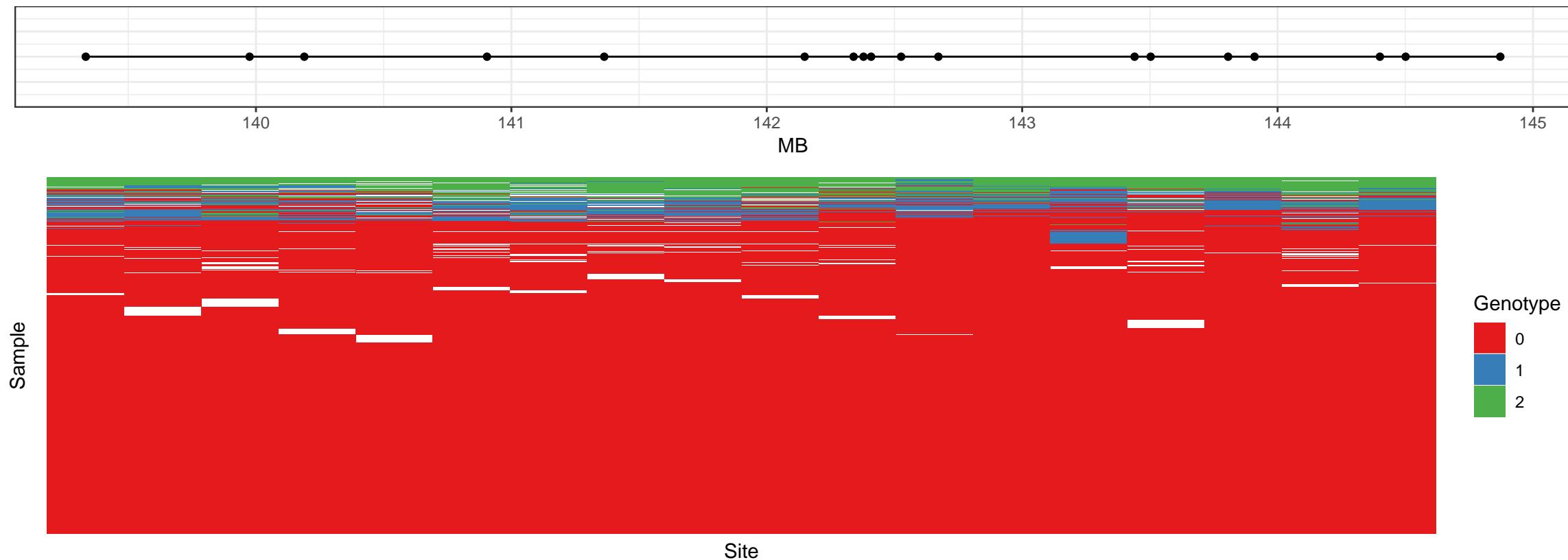


# Ha412HOChr04:139.334–144.872MB Size=5.538MB

1760\_0.57 BetweenSS = 0.95806125408964

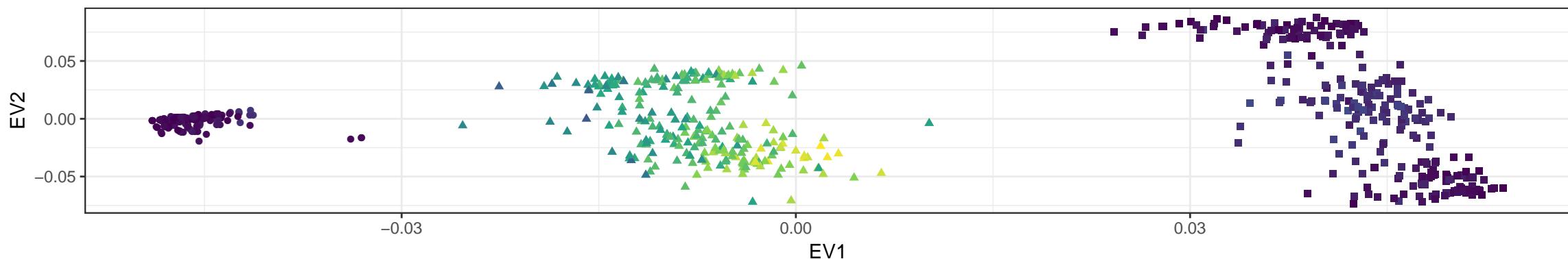


Ha412HOChr04

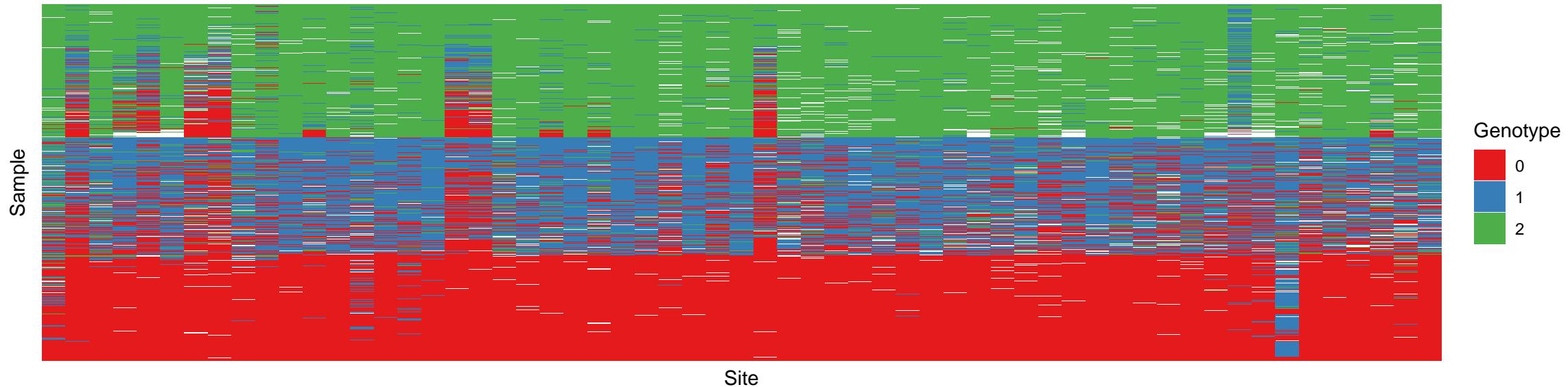
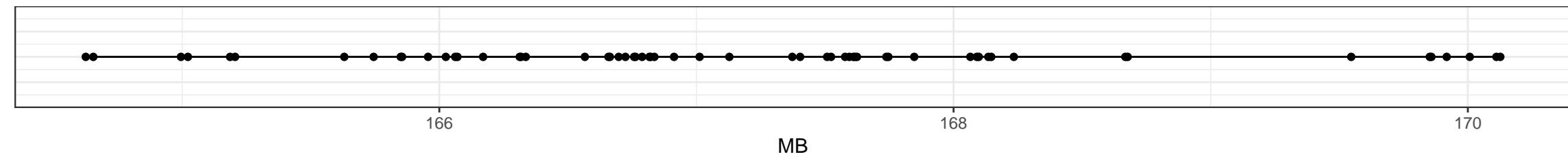


# Ha412HOChr08:164.625–170.126MB Size=5.501MB

1409\_0.51 BetweenSS = 0.983427631502513

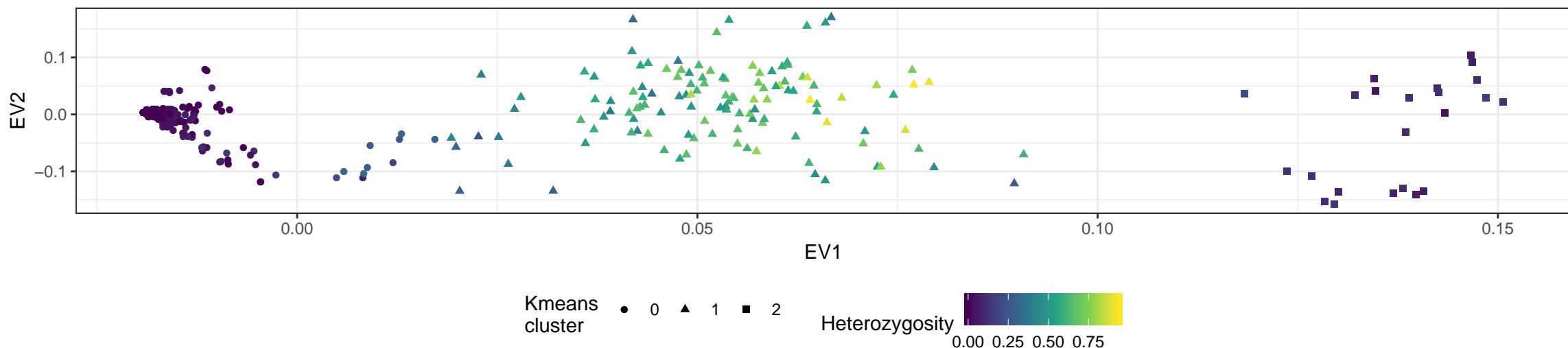


Ha412HOChr08

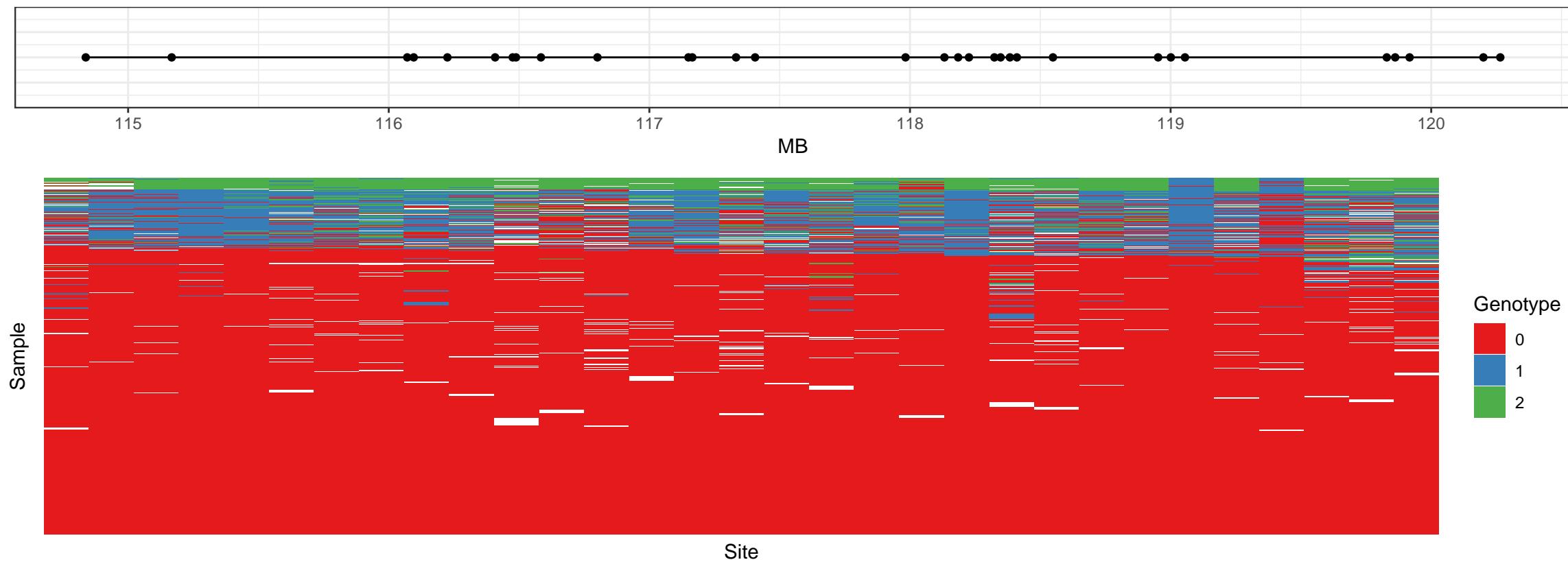


# Ha412HOChr11:114.837–120.265MB Size=5.428MB

1865\_0.48 BetweenSS = 0.962855300354091

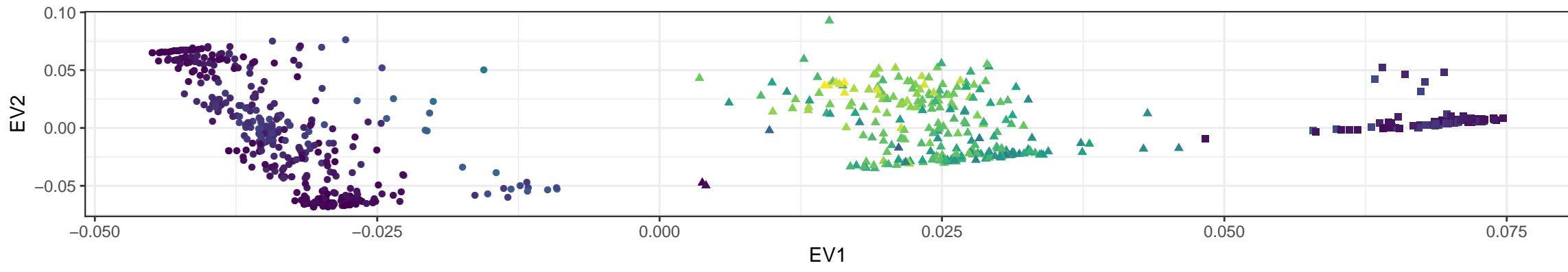


Ha412HOChr11

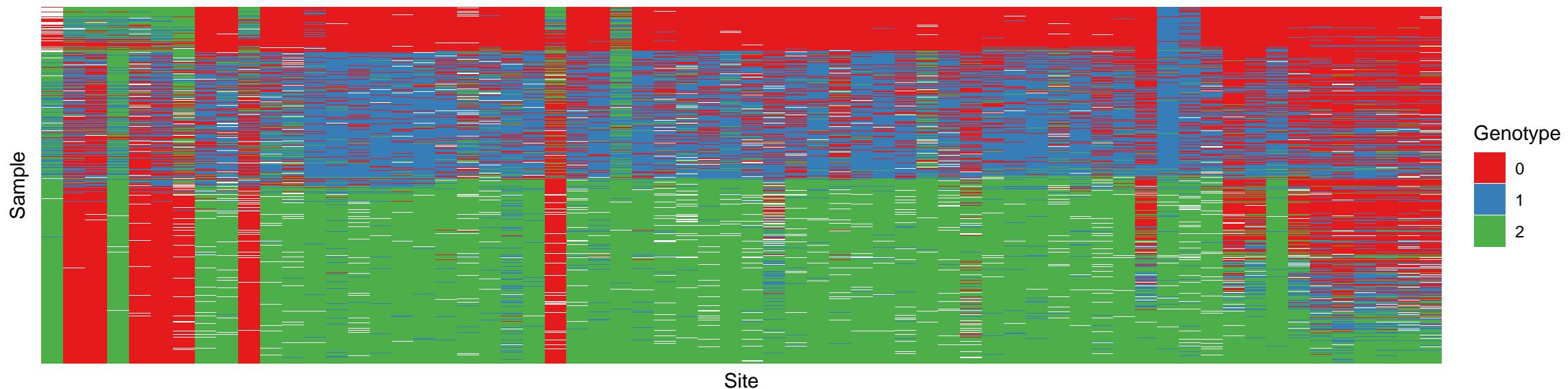
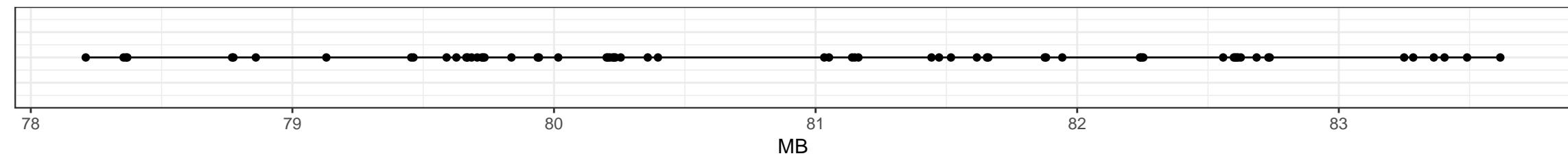


# Ha412HOChr04:78.21–83.617MB Size=5.407MB

2338\_0.47 BetweenSS = 0.971130349846861

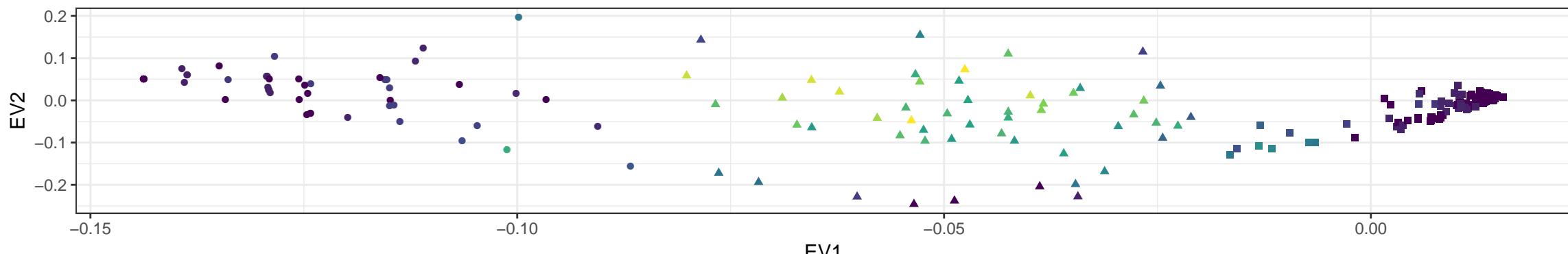


Ha412HOChr04

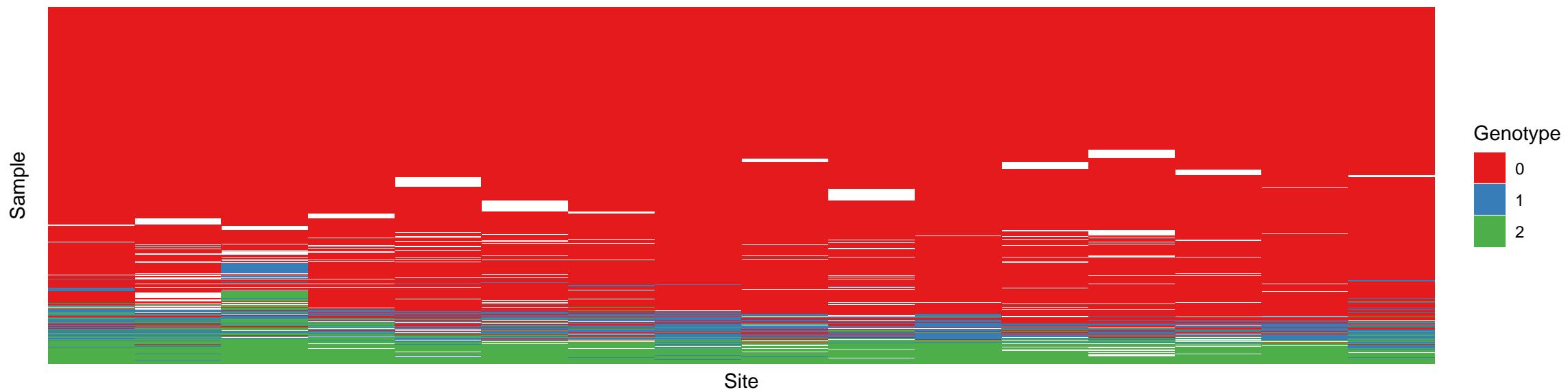
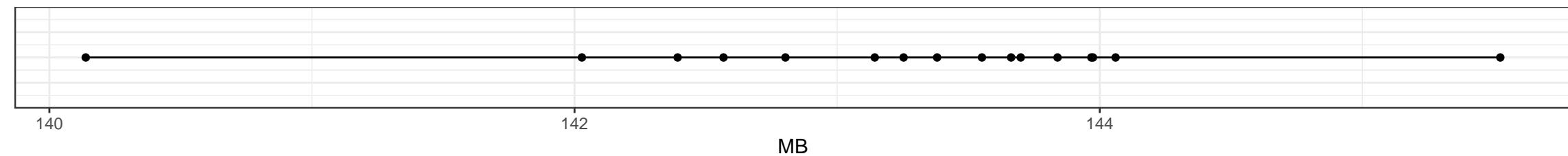


# Ha412HOChr06:140.139–145.525MB Size=5.387MB

980\_0.66 BetweenSS = 0.967565867052837

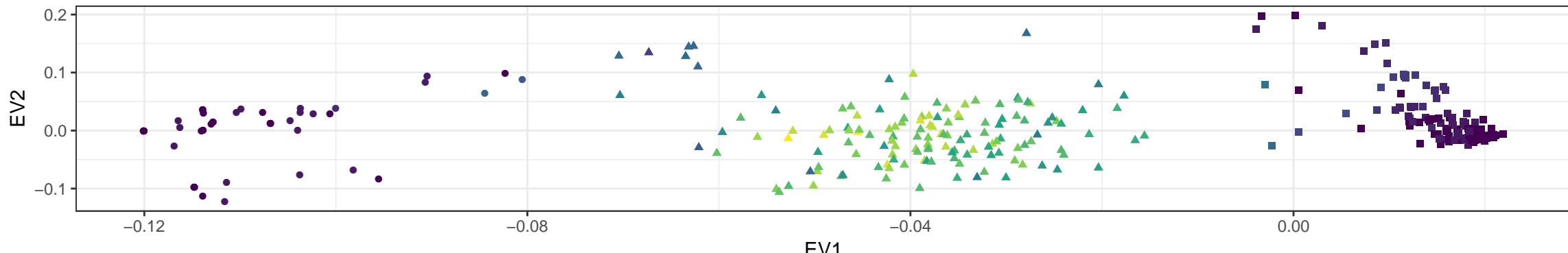


Ha412HOChr06



# Ha412HOChr13:35.775–41.155MB Size=5.379MB

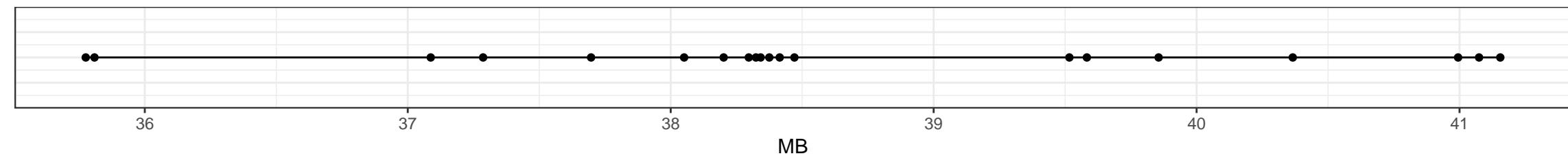
962\_0.63 BetweenSS = 0.968942405939705



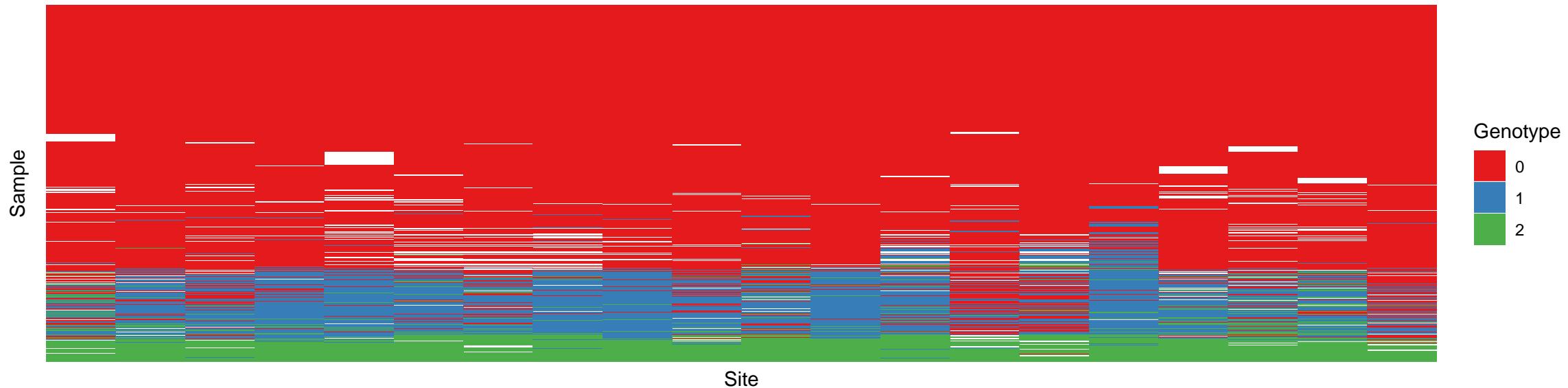
Kmeans  
cluster • 0 ▲ 1 ■ 2

Heterozygosity  
0.00 0.25 0.50 0.75

Ha412HOChr13



MB

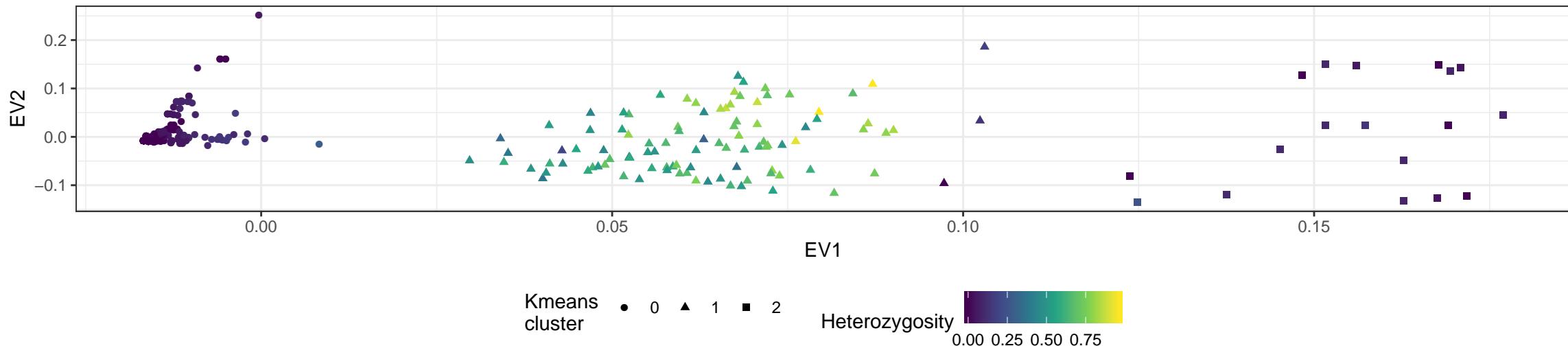


Site

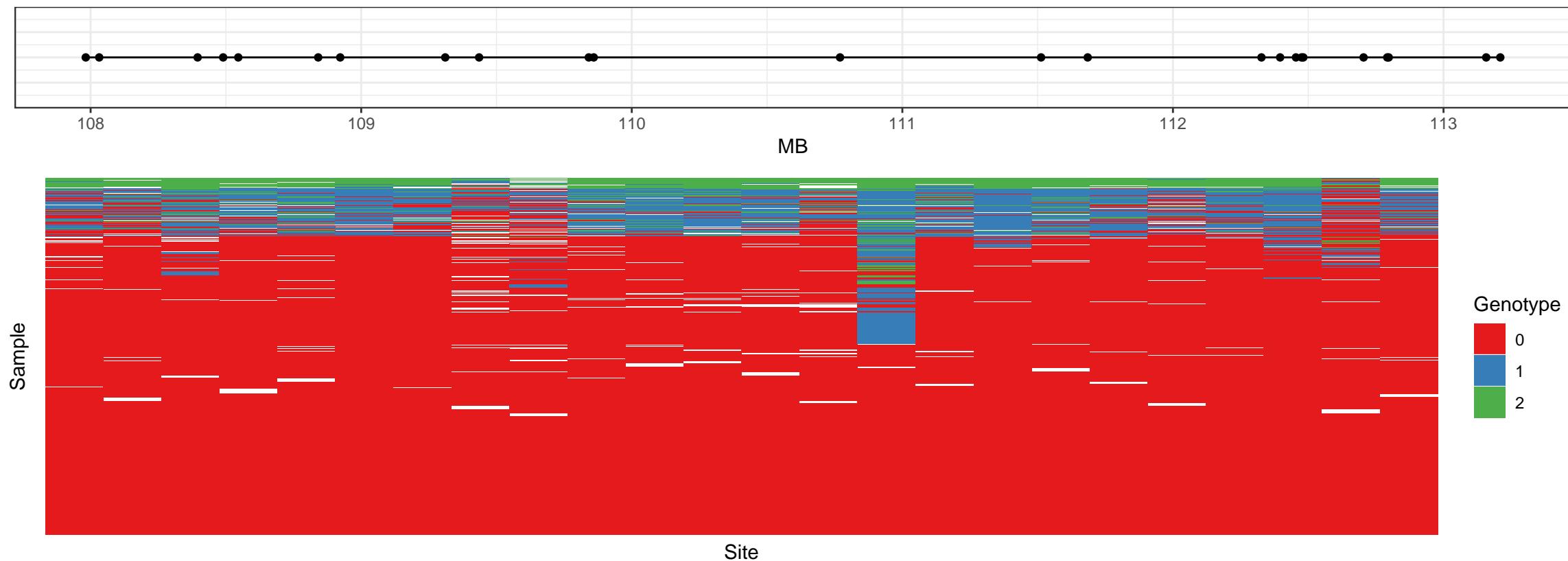
Genotype  
0  
1  
2

# Ha412HOChr17:107.982–113.21MB Size=5.228MB

2853\_0.33 BetweenSS = 0.969205192470014

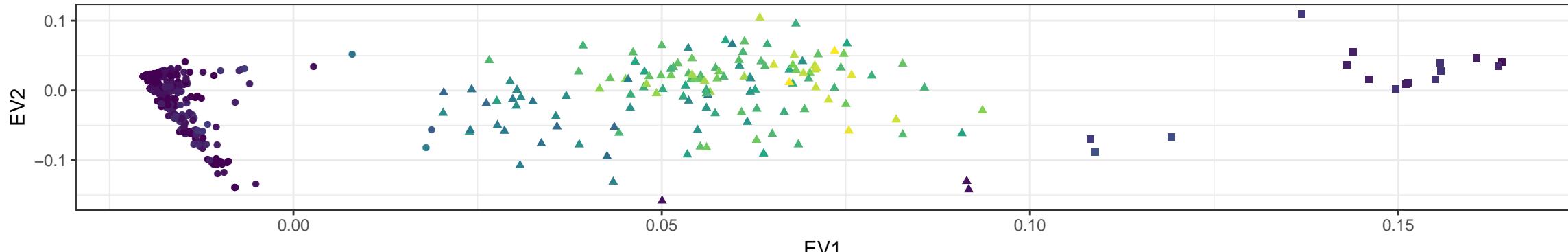


Ha412HOChr17

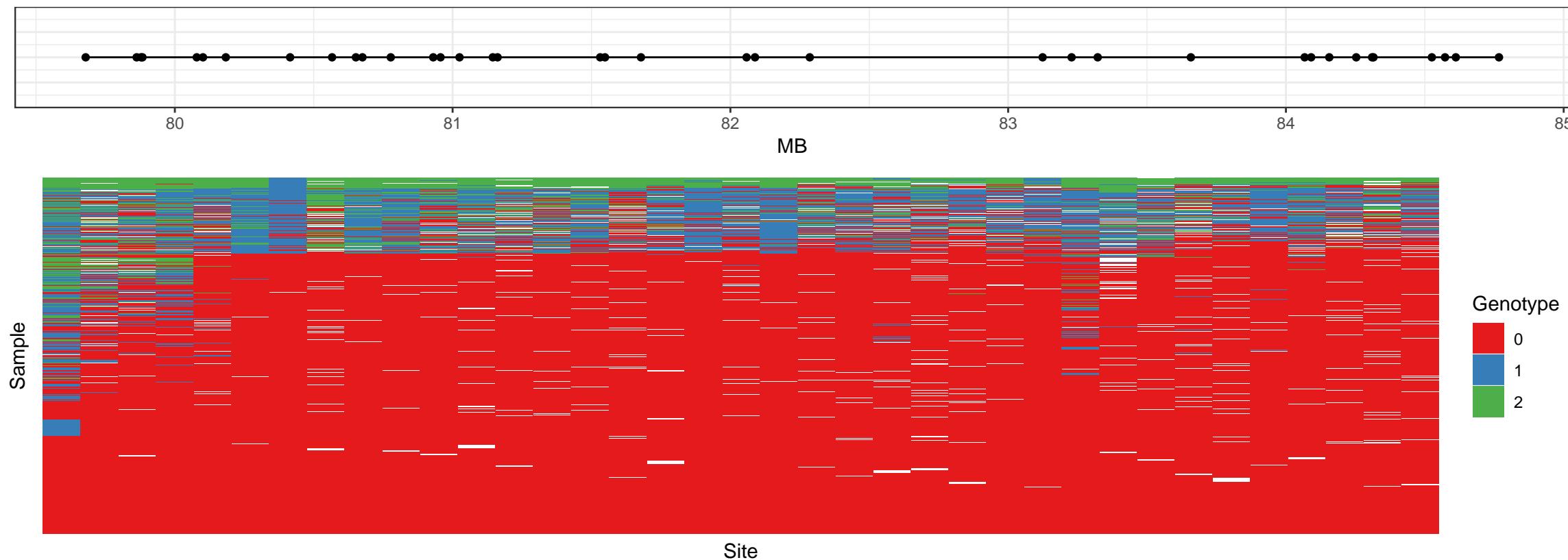


# Ha412HOChr11:79.679–84.767MB Size=5.088MB

2237\_0.4 BetweenSS = 0.951553454679105

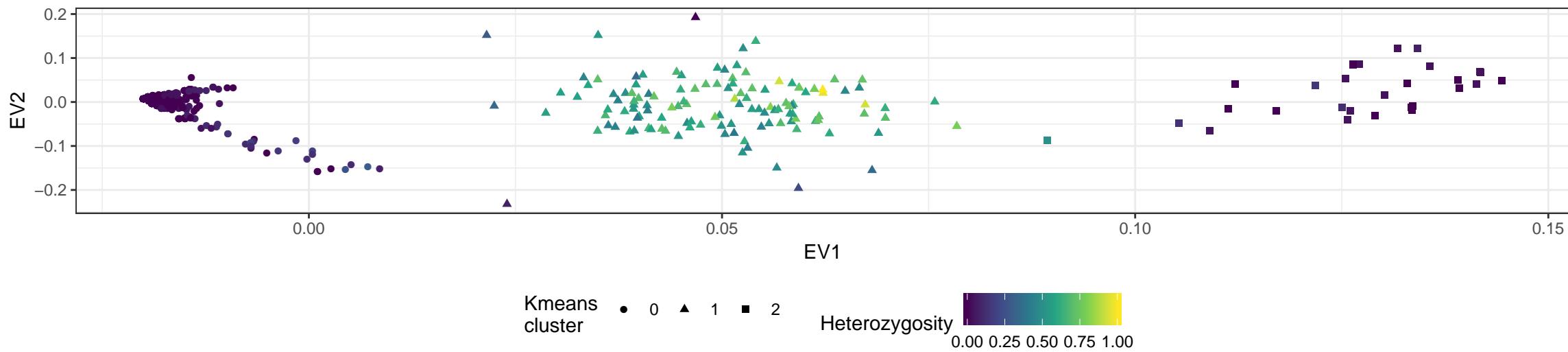


Ha412HOChr11

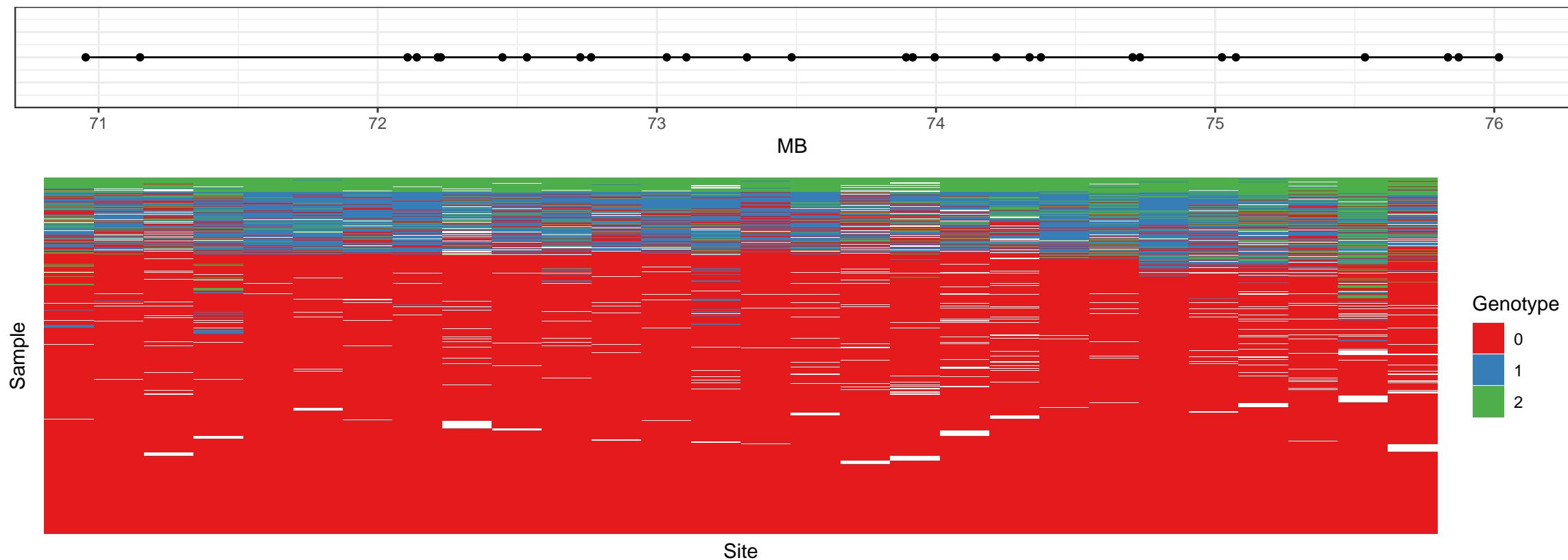


# Ha412HOChr04:70.954–76.017MB Size=5.063MB

2131\_0.51 BetweenSS = 0.971896050333953

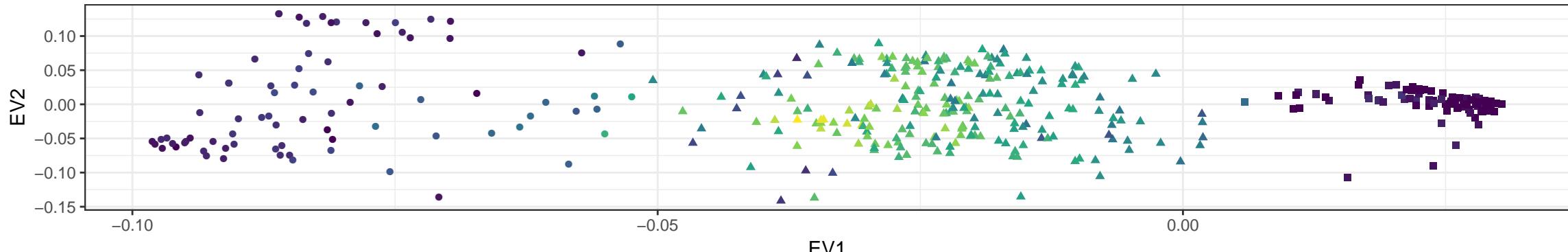


Ha412HOChr04

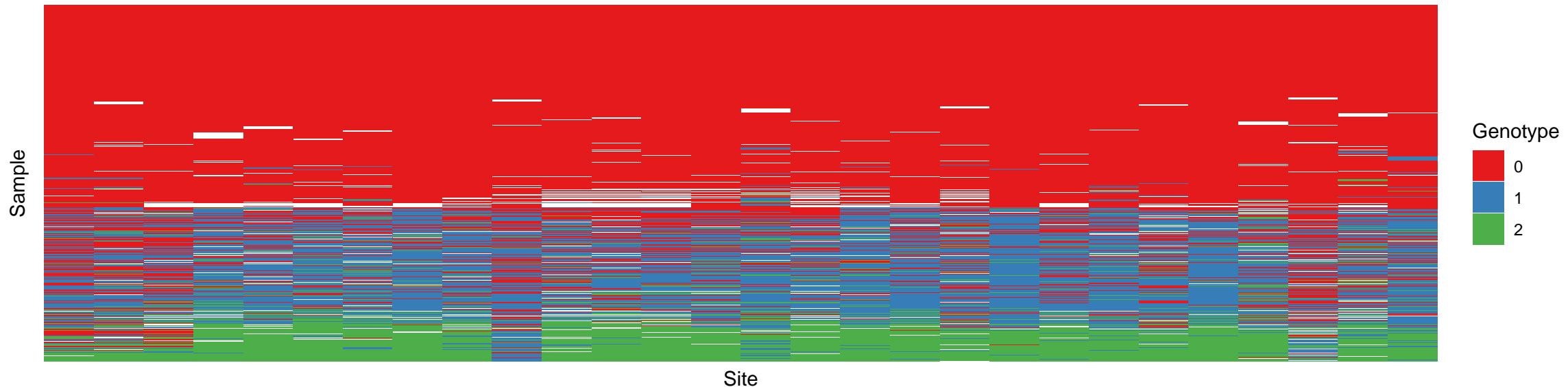
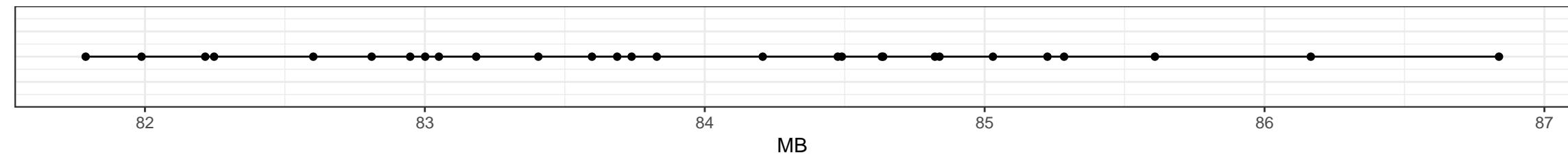


# Ha412HOChr10:81.788–86.838MB Size=5.049MB

2424\_0.43 BetweenSS = 0.959590045173019

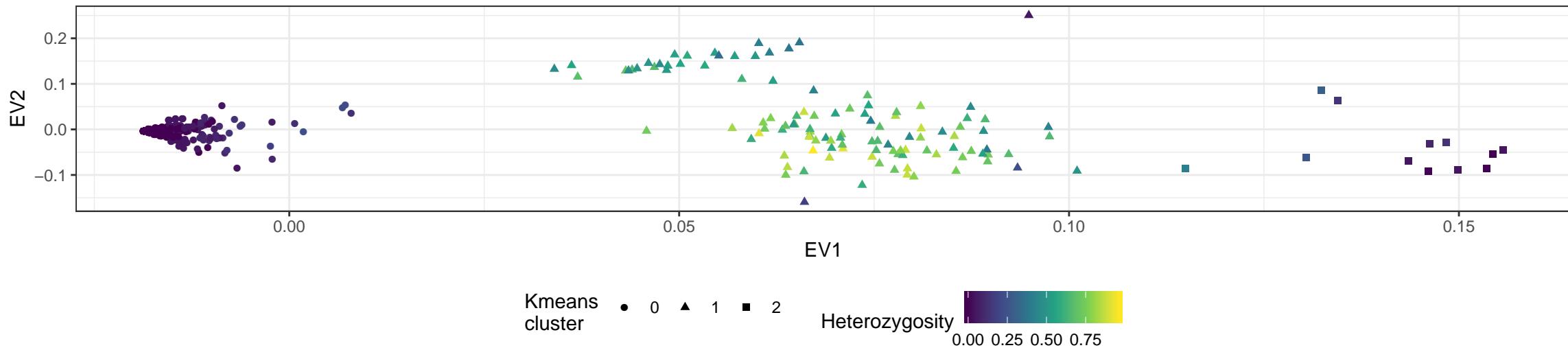


Ha412HOChr10

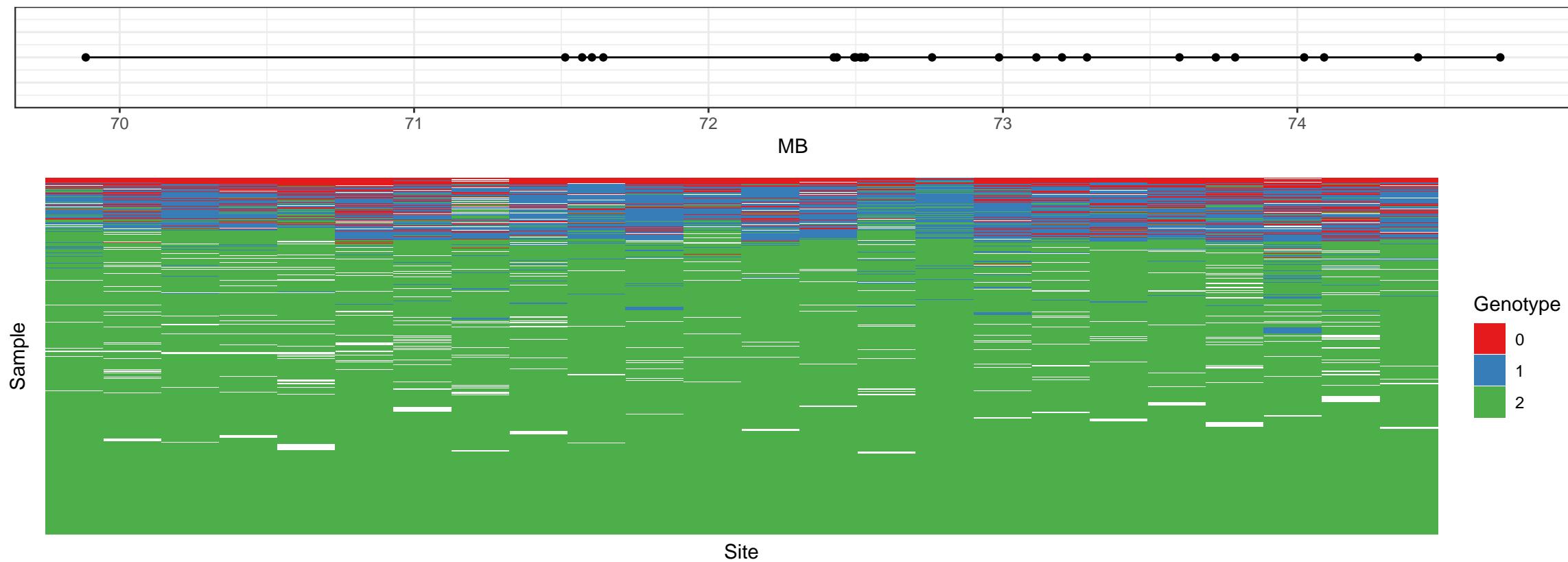


# Ha412HOChr02:69.885–74.689MB Size=4.805MB

1632\_0.57 BetweenSS = 0.96843636980137

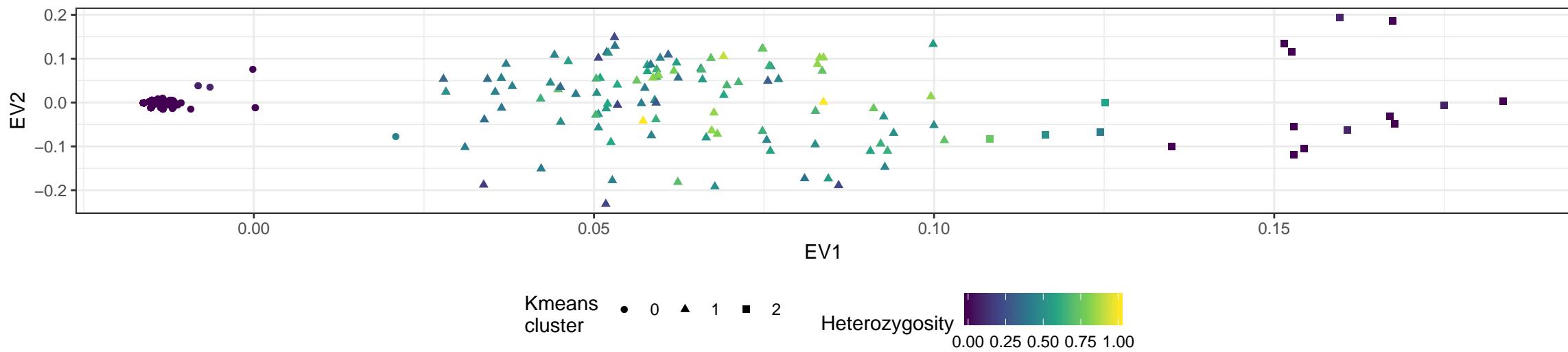


Ha412HOChr02

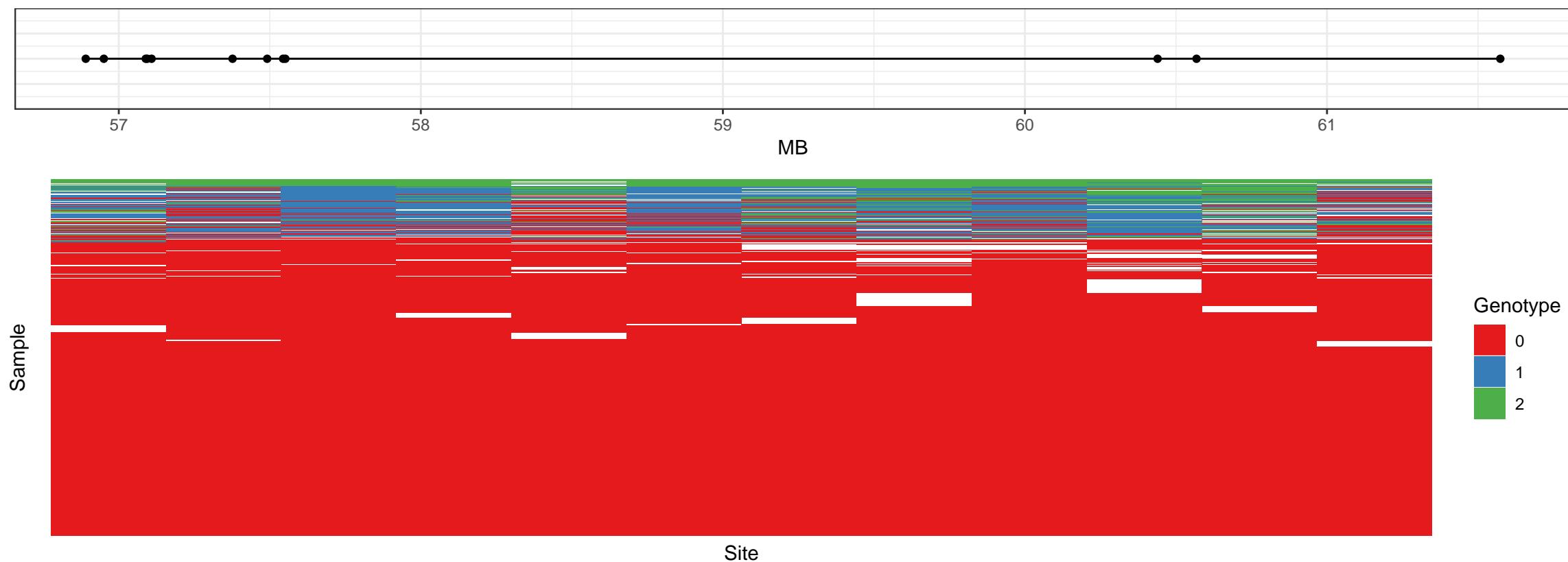


# Ha412HOChr05:56.891–61.574MB Size=4.683MB

1719\_0.51 BetweenSS = 0.955855542428856

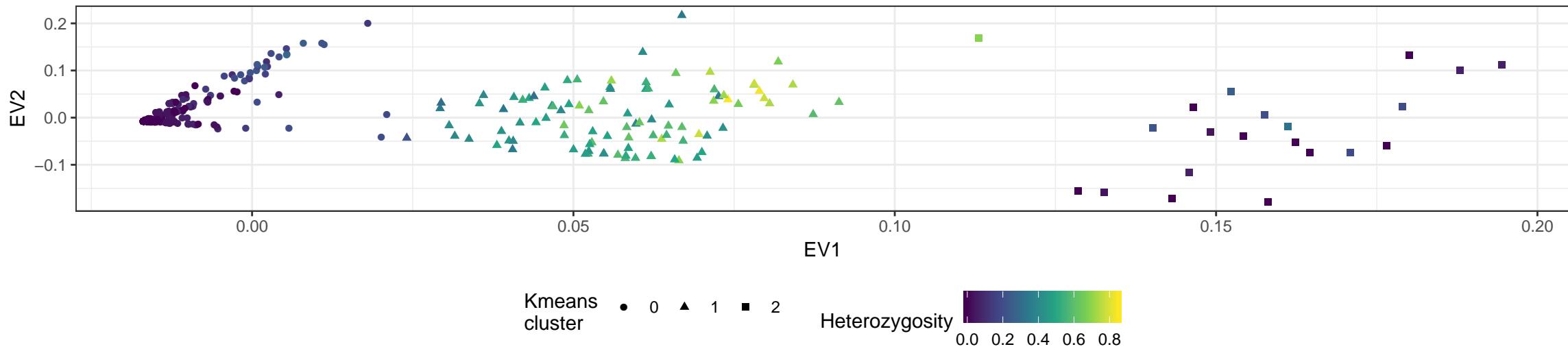


Ha412HOChr05

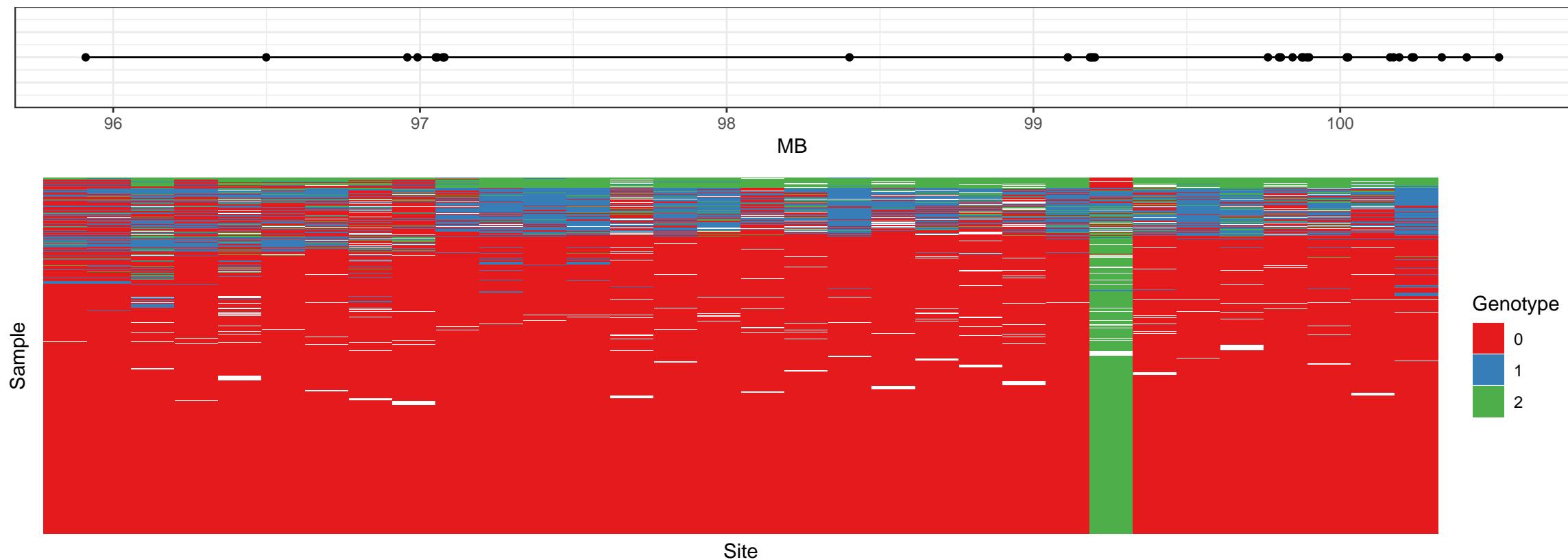


# Ha412HOChr17:95.91–100.518MB Size=4.607MB

2681\_0.36 BetweenSS = 0.957366072335191

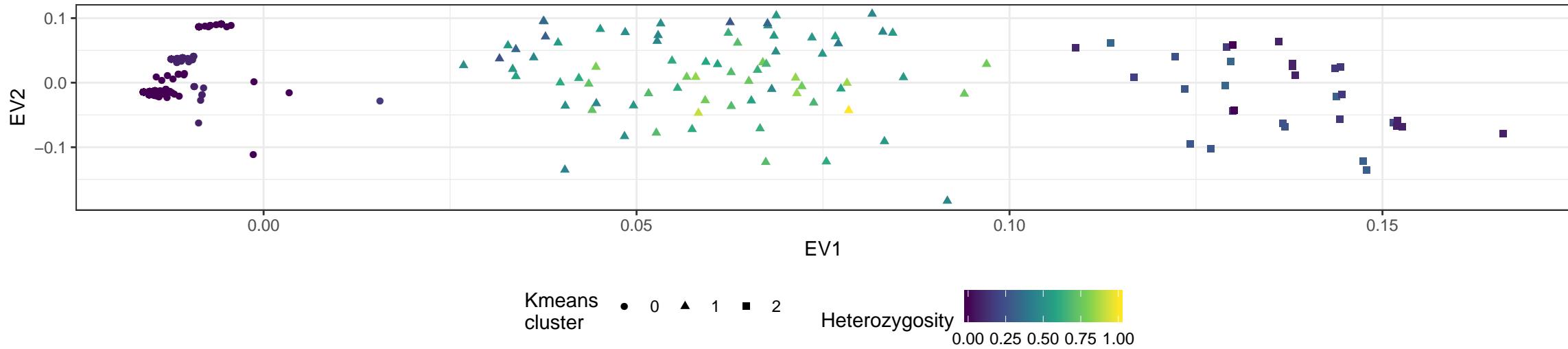


Ha412HOChr17

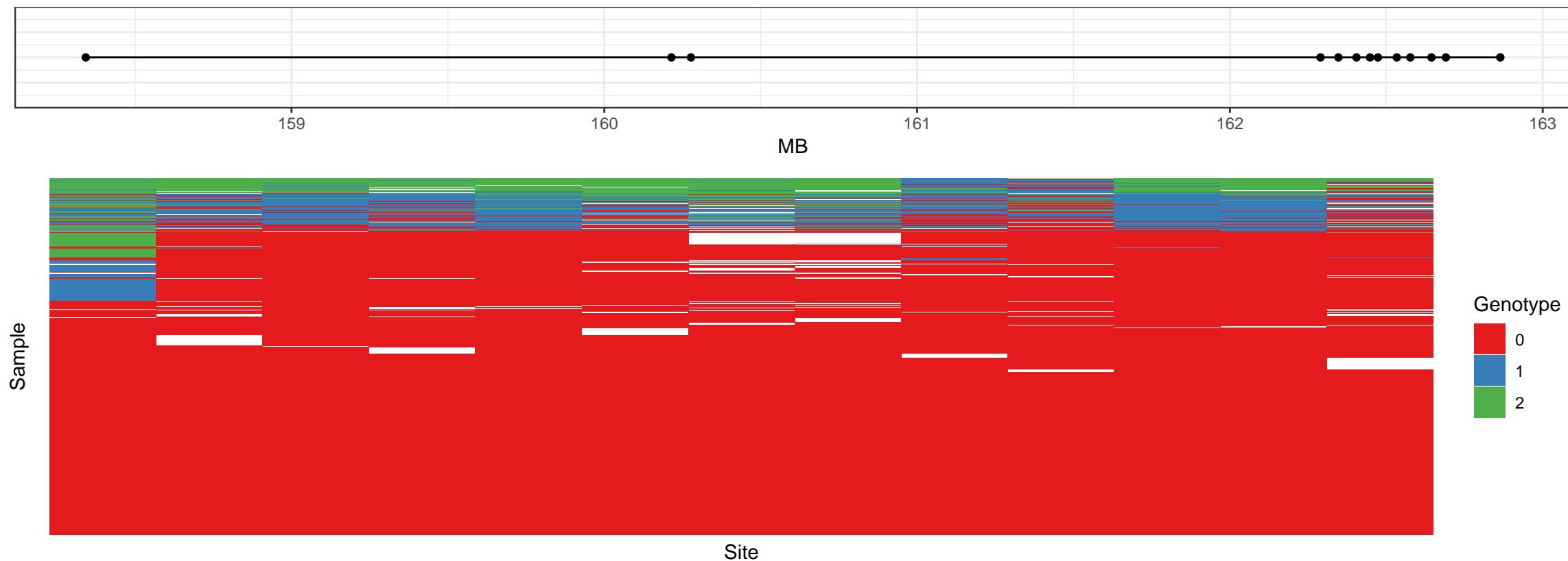


# Ha412HOChr08:158.342–162.864MB Size=4.522MB

1681\_0.45 BetweenSS = 0.968407151639468

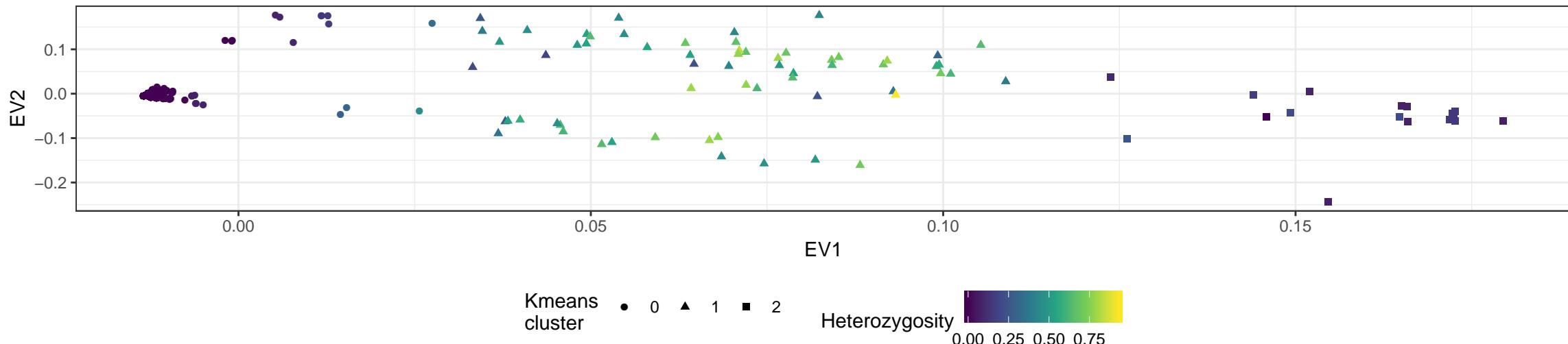


Ha412HOChr08

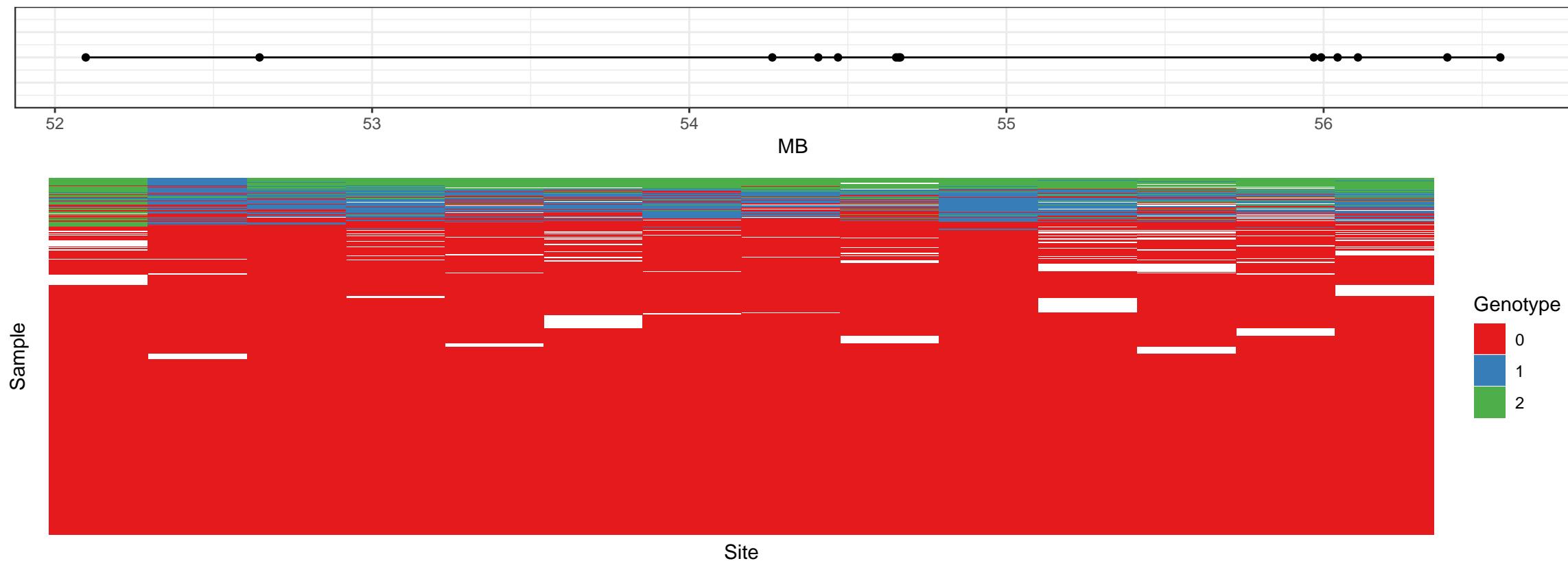


# Ha412HOChr05:52.097–56.557MB Size=4.46MB

1408\_0.57 BetweenSS = 0.959070061523637

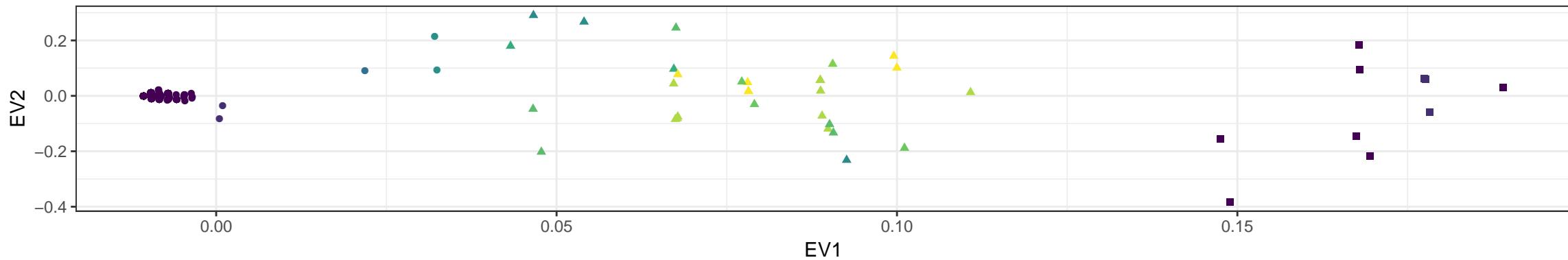


Ha412HOChr05

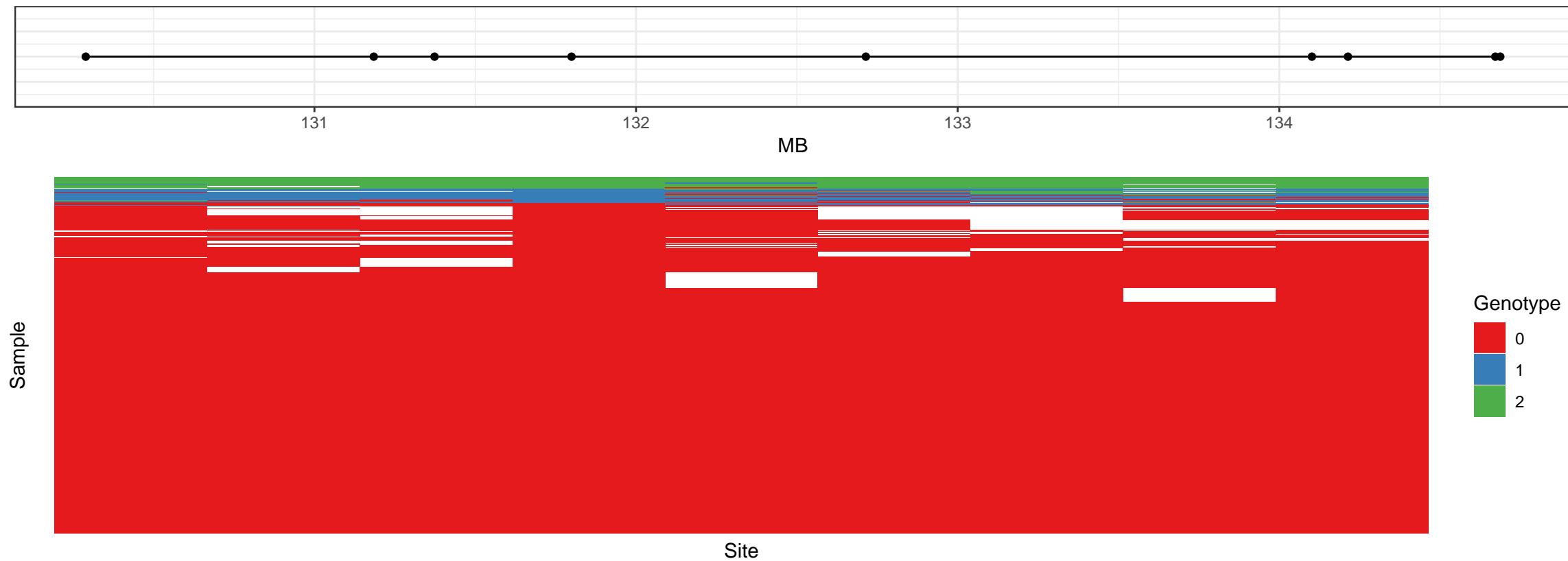


# Ha412HOChr06:130.289–134.687MB Size=4.398MB

249\_0.8 BetweenSS = 0.981085786579085

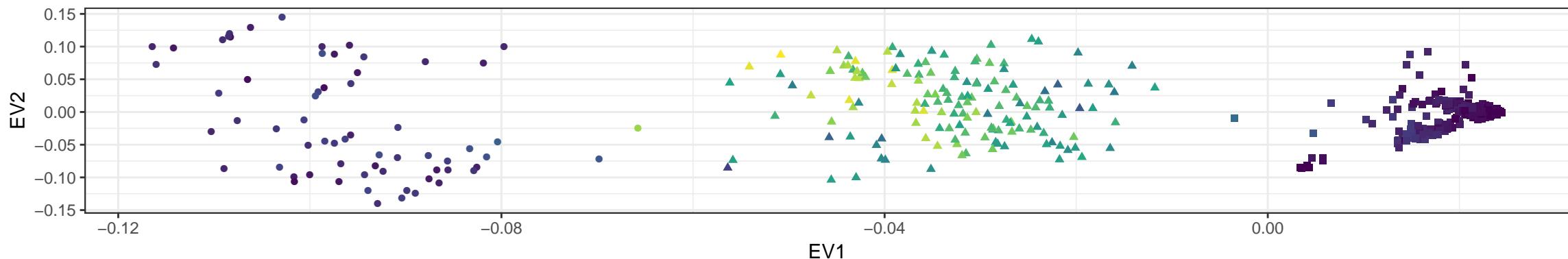


Ha412HOChr06

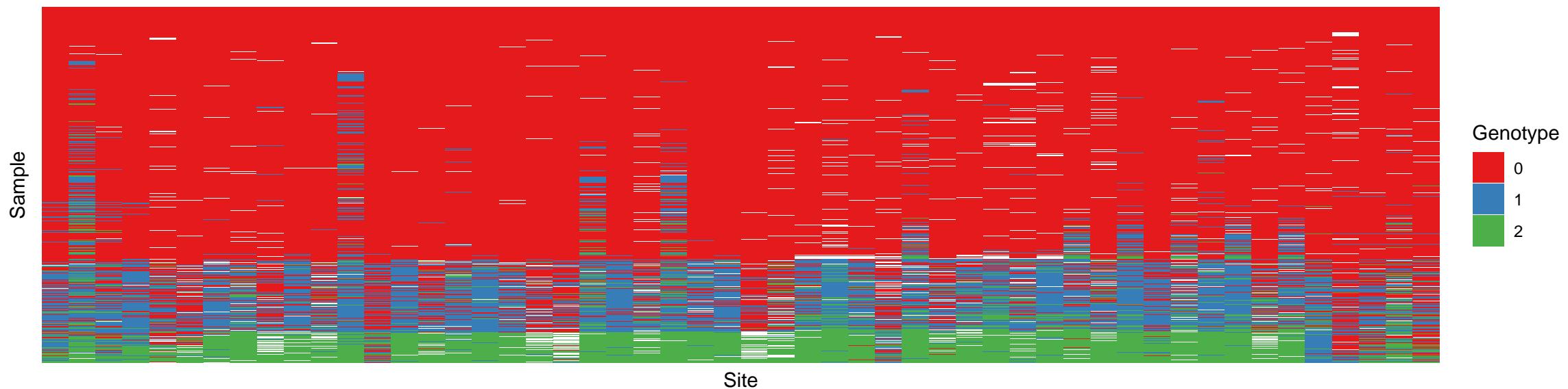
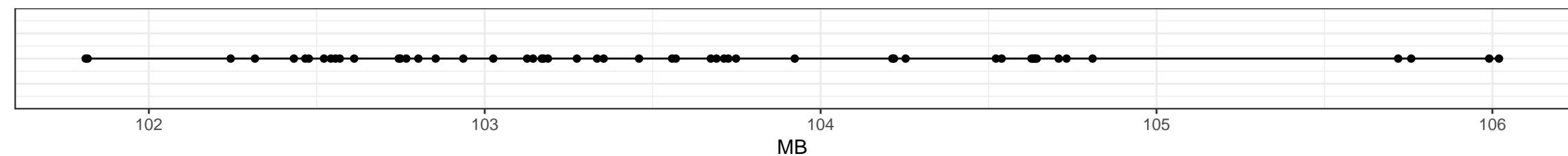


# Ha412HOChr16:101.812–106.019MB Size=4.208MB

2613\_0.34 BetweenSS = 0.973799994424011

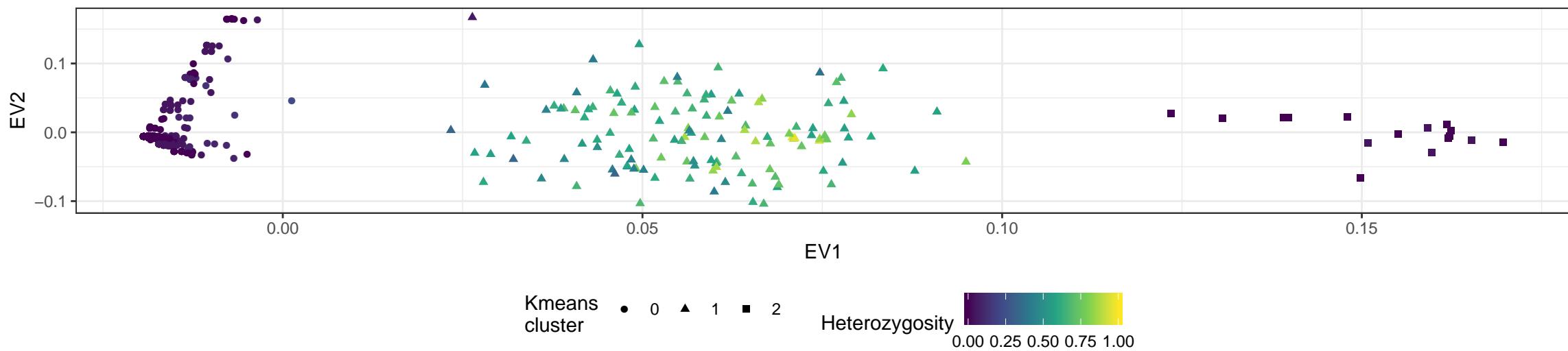


Ha412HOChr16

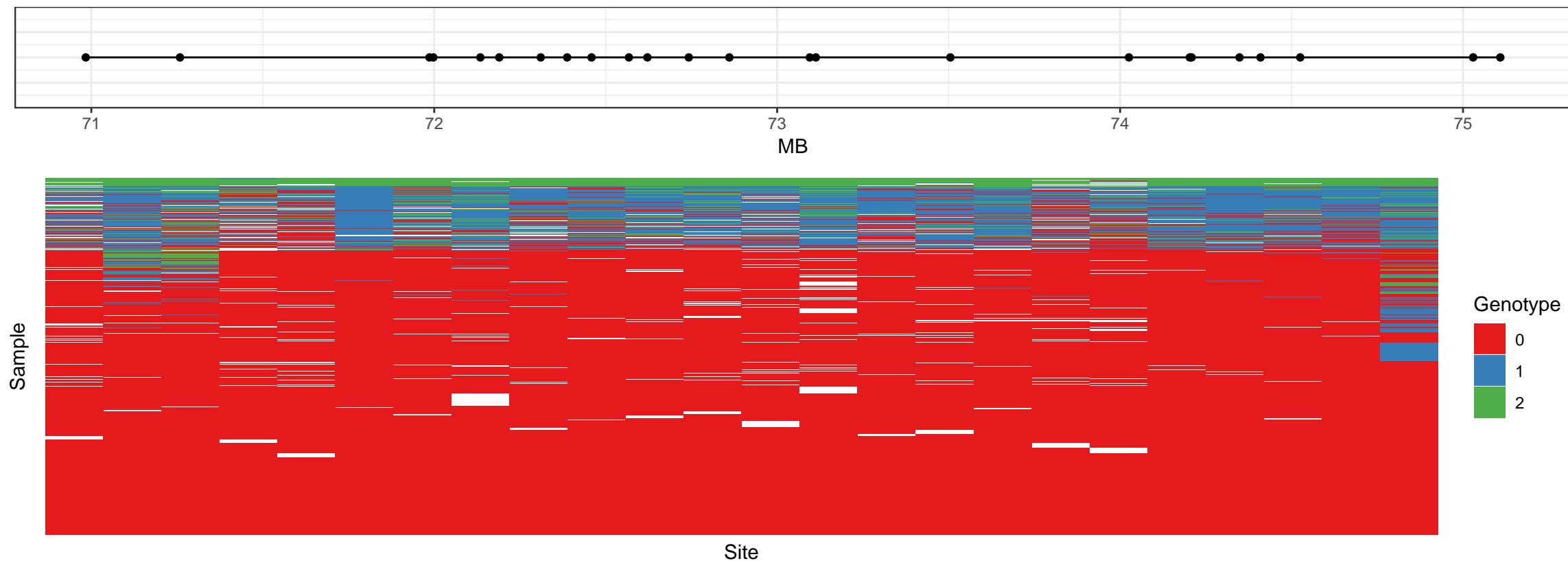


# Ha412HOChr04:70.984–75.109MB Size=4.125MB

2586\_0.42 BetweenSS = 0.96482613602429

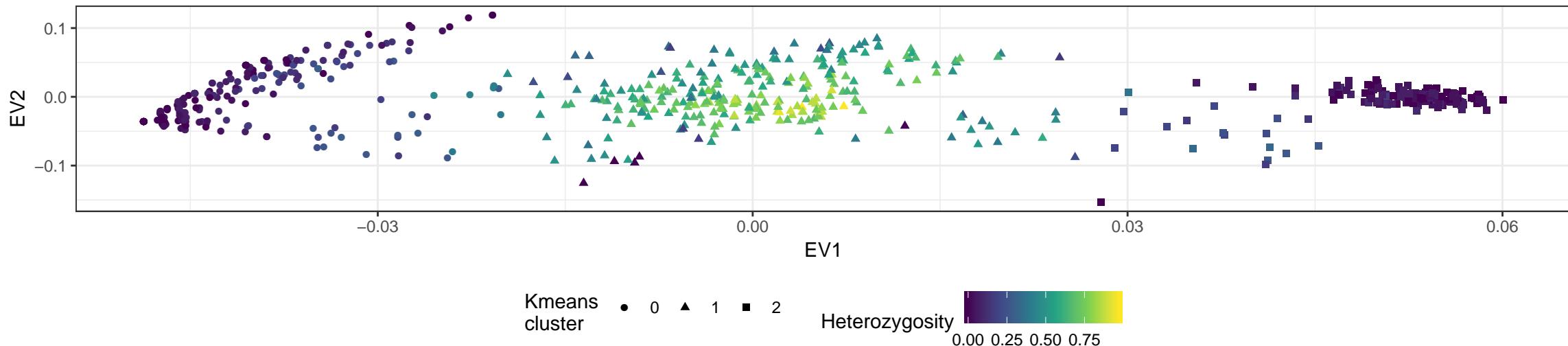


Ha412HOChr04

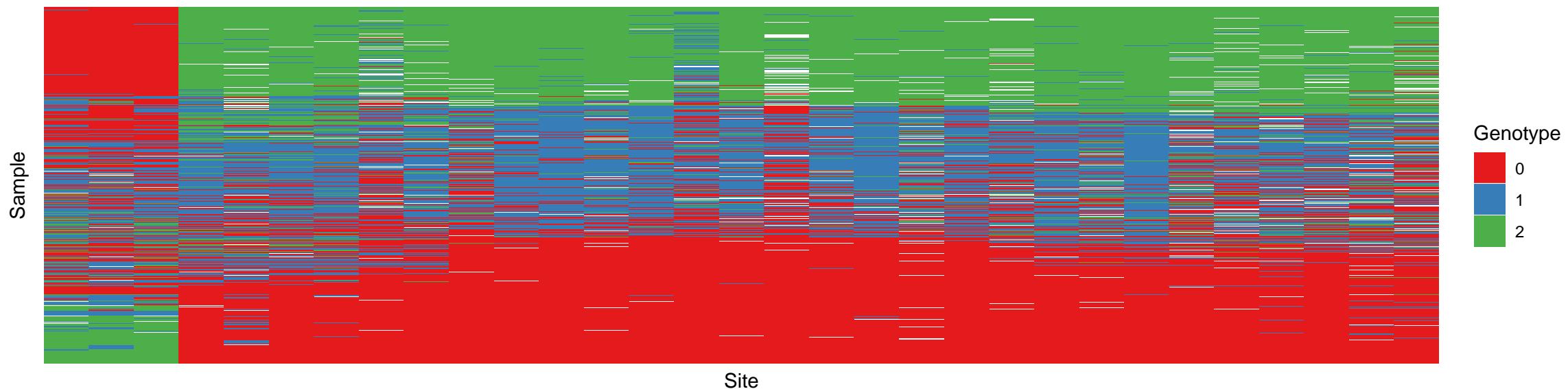
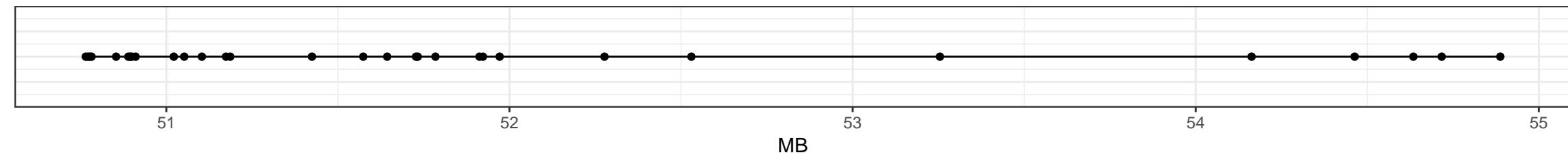


# Ha412HOChr14:50.765–54.888MB Size=4.123MB

1349\_0.51 BetweenSS = 0.957804787152647

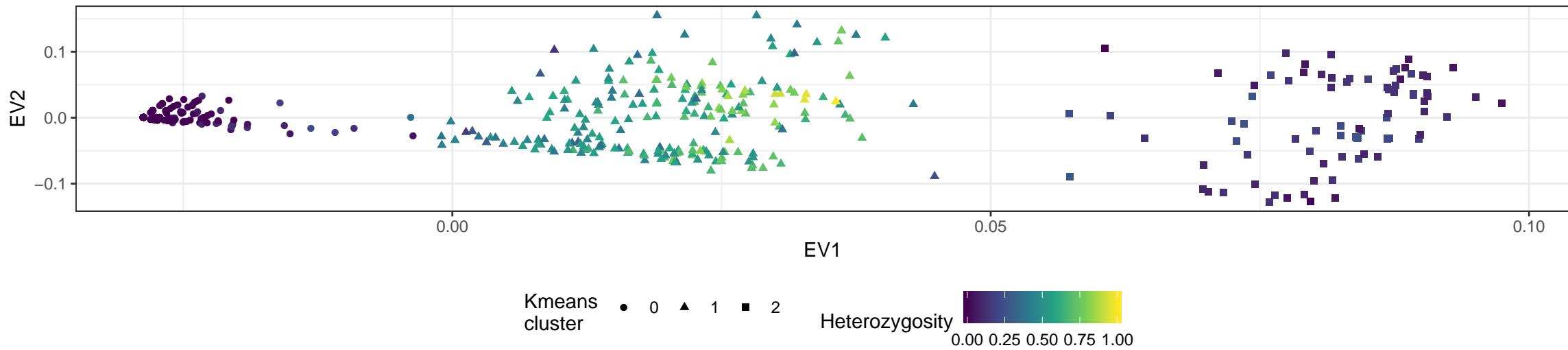


Ha412HOChr14

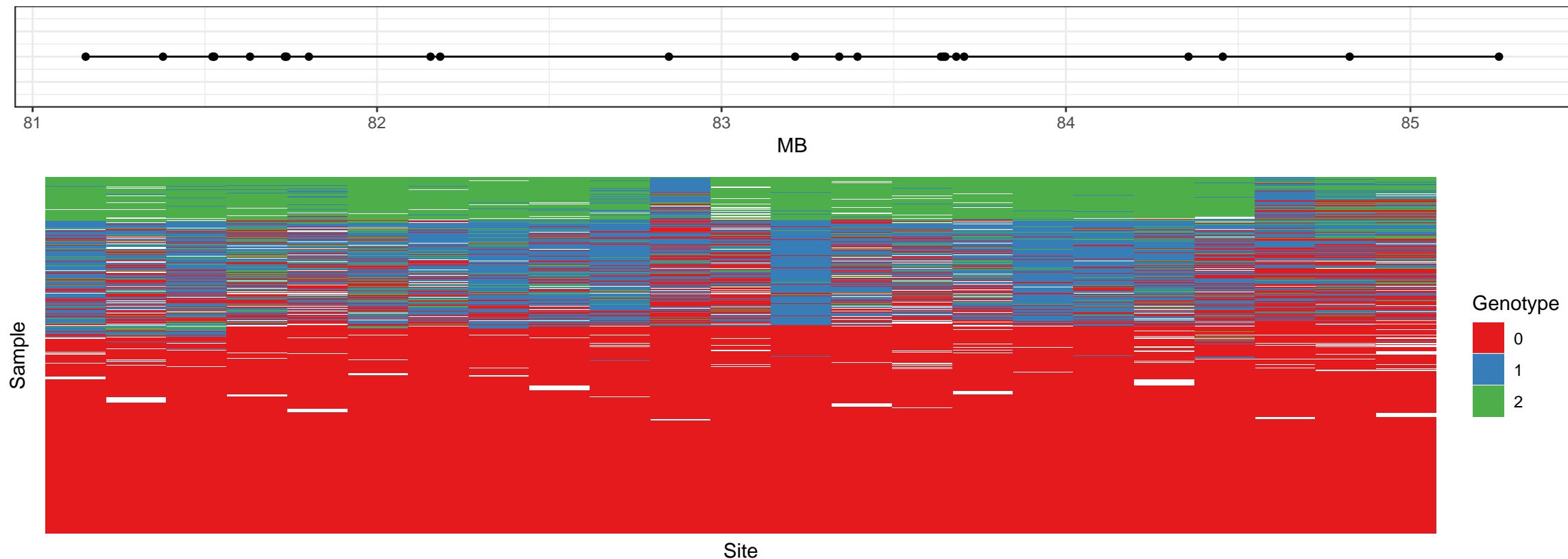


# Ha412HOChr02:81.154–85.257MB Size=4.103MB

2141\_0.46 BetweenSS = 0.972542834458255

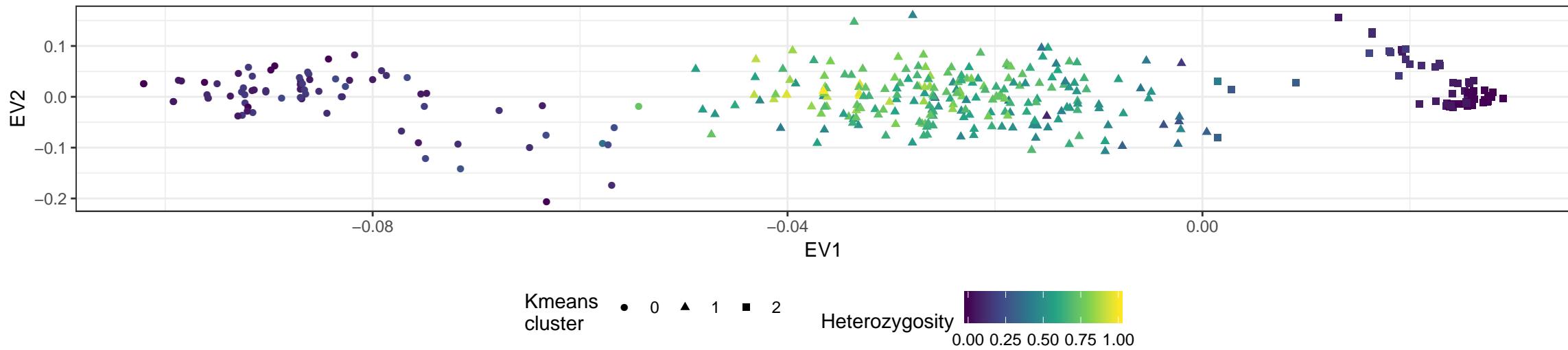


Ha412HOChr02

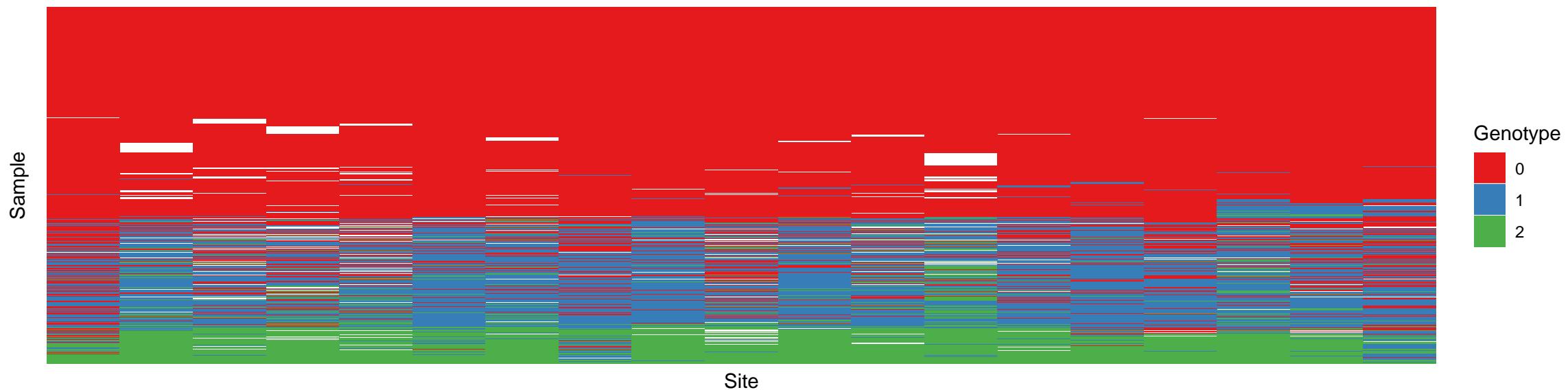
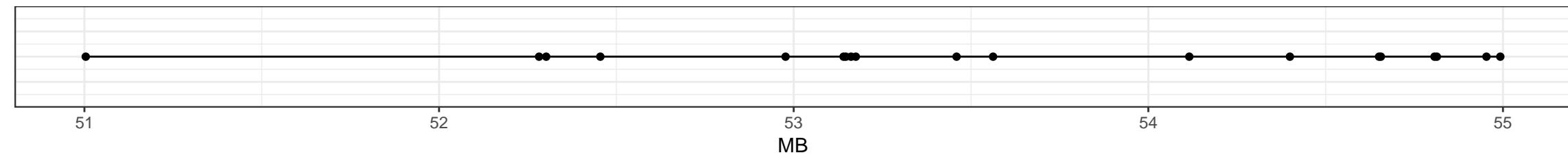


# Ha412HOChr14:51.004–54.992MB Size=3.989MB

1240\_0.54 BetweenSS = 0.961629292023232

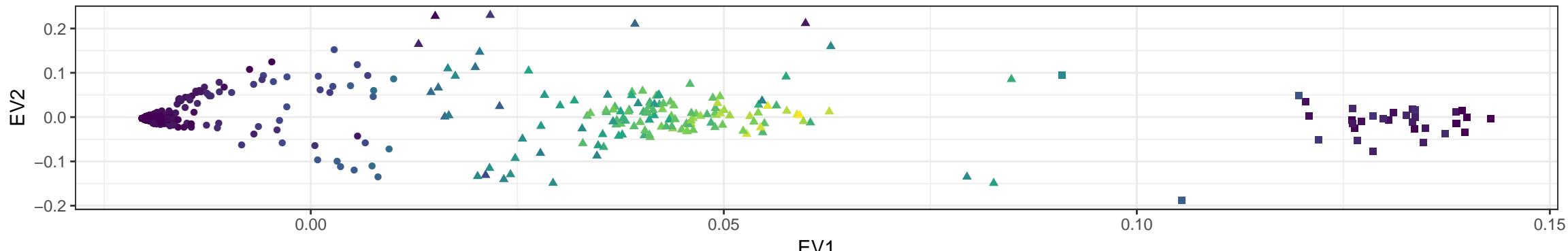


Ha412HOChr14

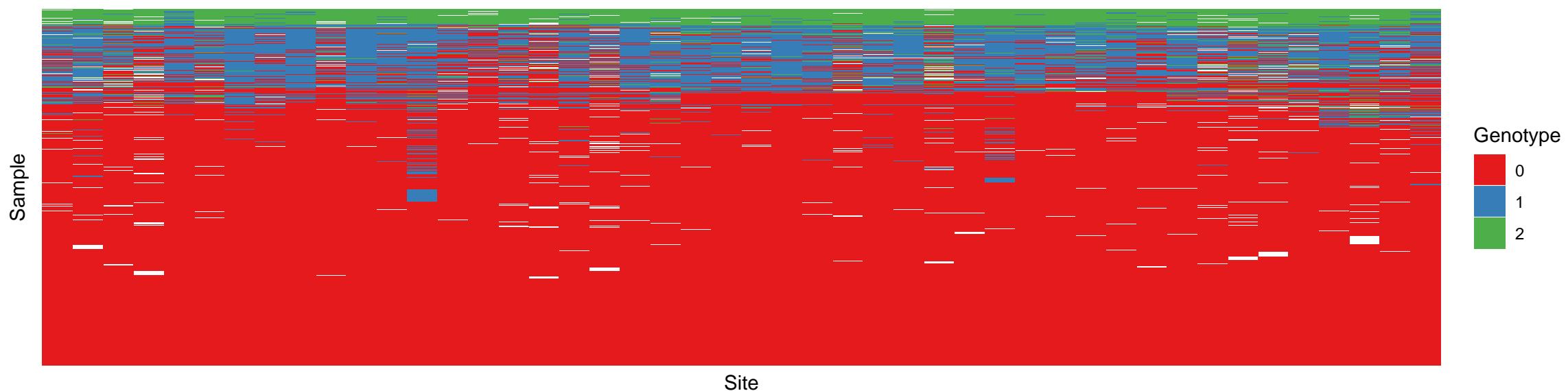


# Ha412HOChr02:101.766–105.671MB Size=3.905MB

1553\_0.58 BetweenSS = 0.958311370919711

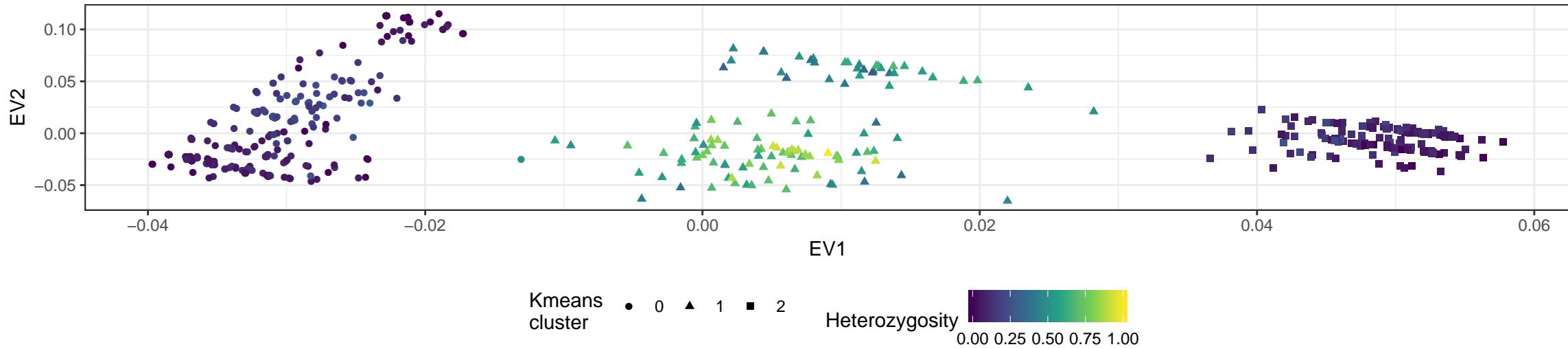


Ha412HOChr02

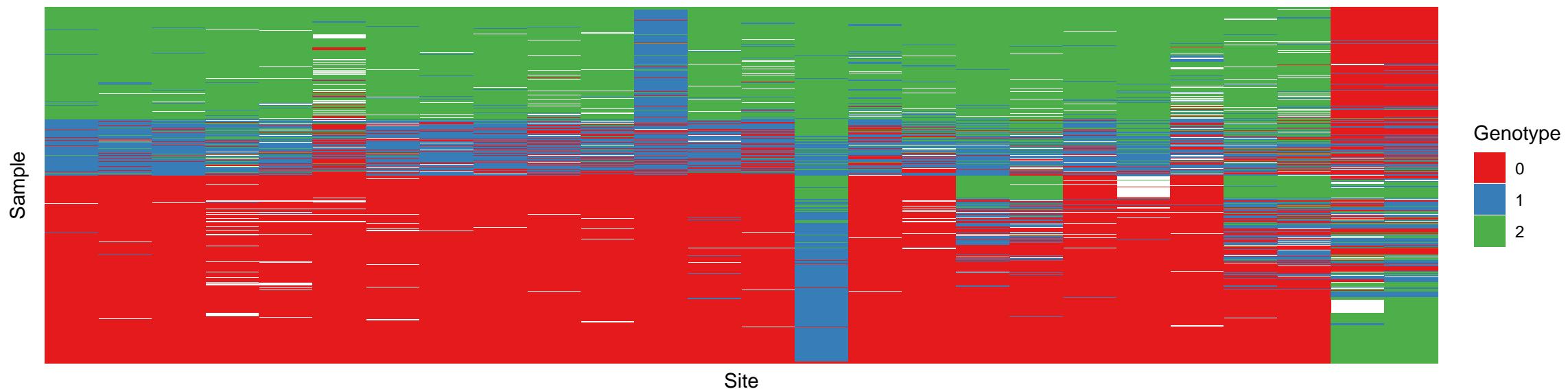
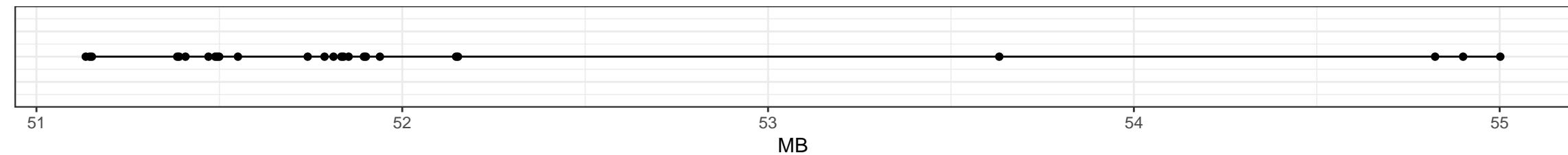


# Ha412HOChr12:51.135–55.002MB Size=3.867MB

2132\_0.51 BetweenSS = 0.979183246188604

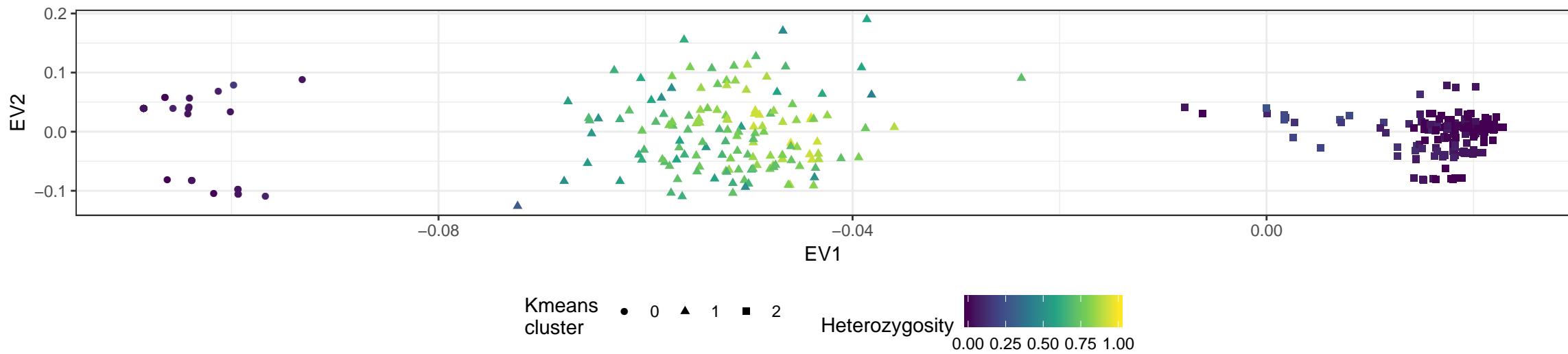


Ha412HOChr12

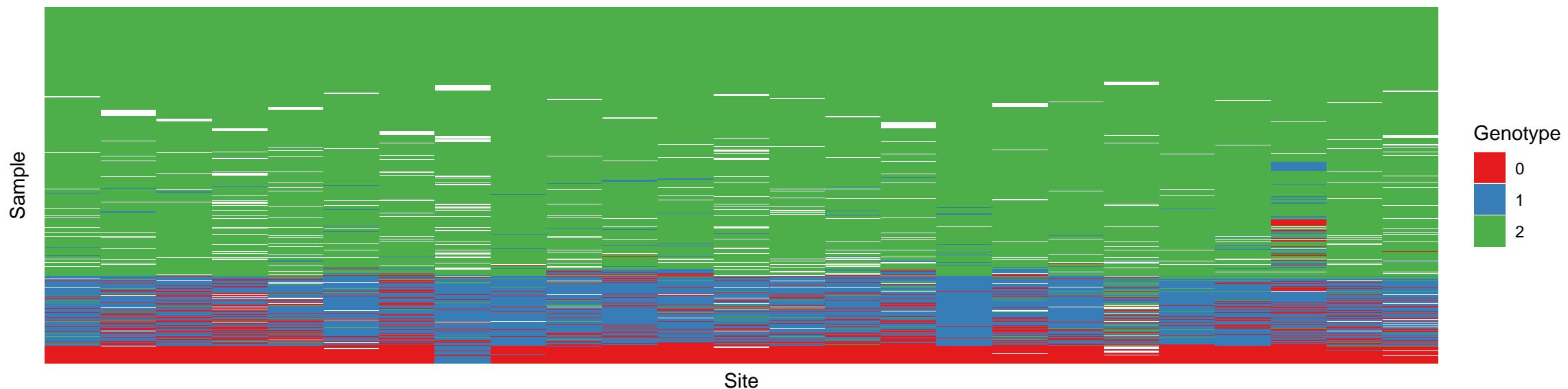
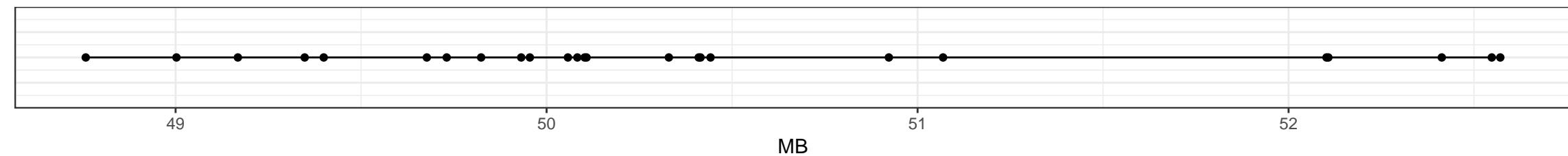


# Ha412HOChr05:48.758–52.571MB Size=3.813MB

1616\_0.53 BetweenSS = 0.984782054458668

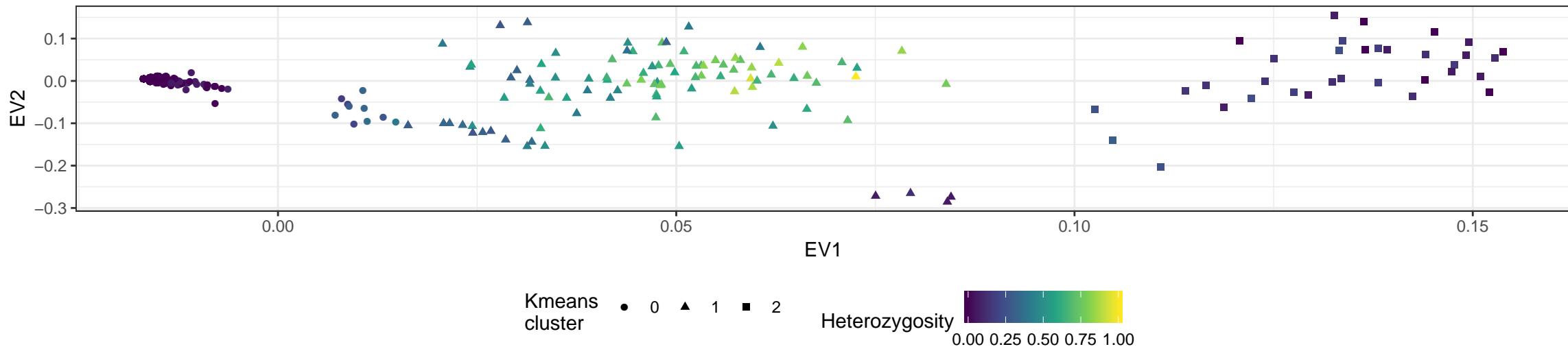


Ha412HOChr05

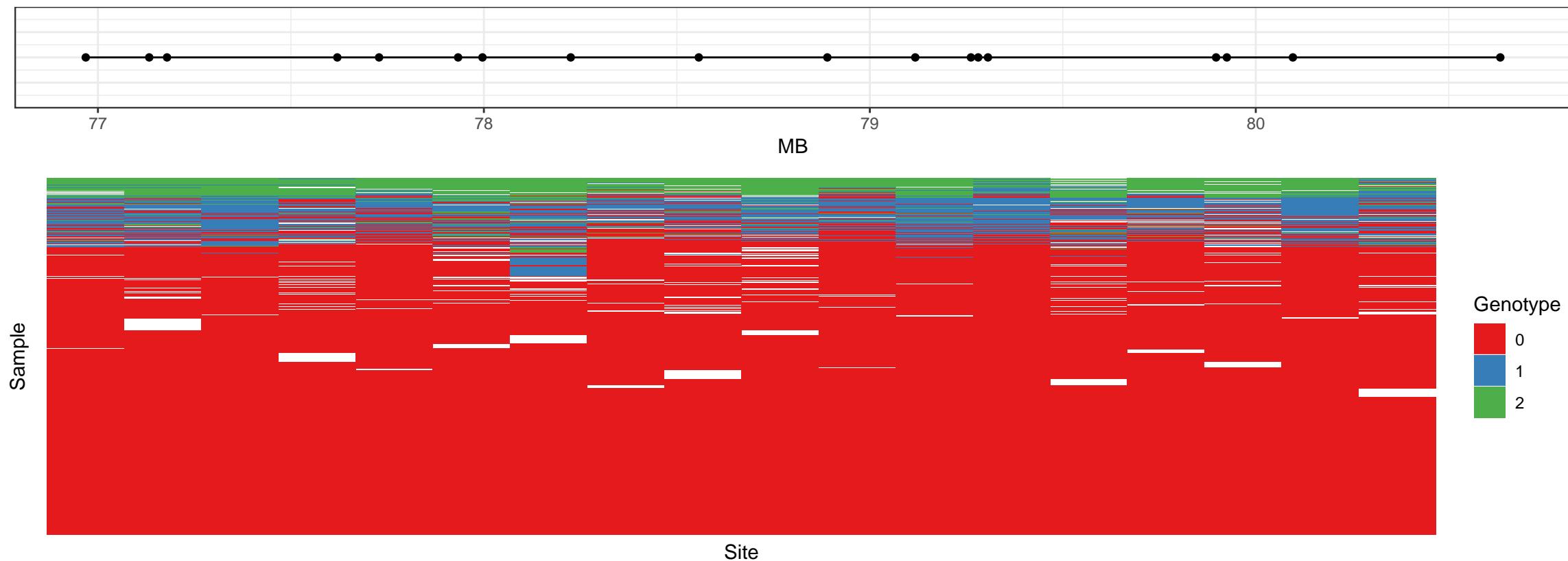


# Ha412HOChr05:76.968–80.634MB Size=3.665MB

1481\_0.56 BetweenSS = 0.960298501341396

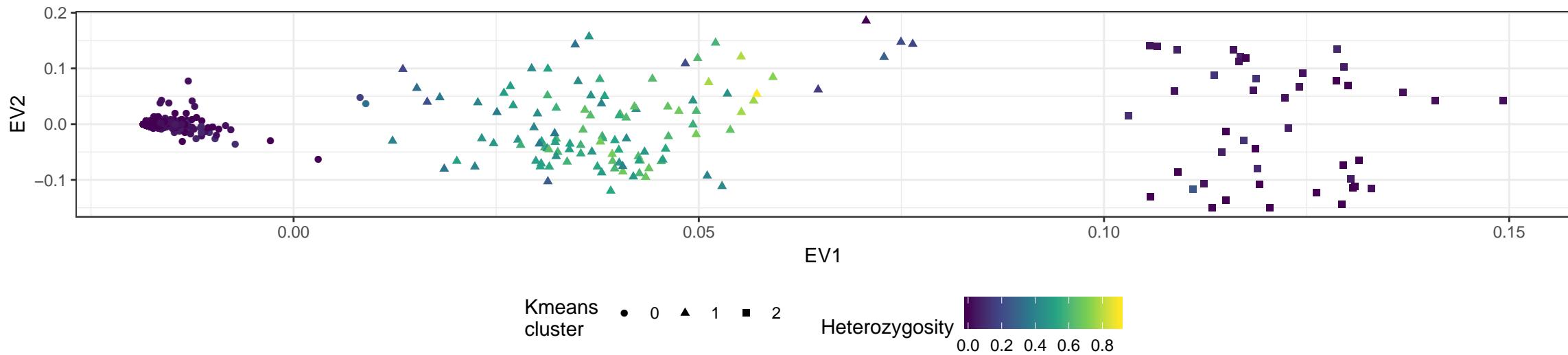


Ha412HOChr05

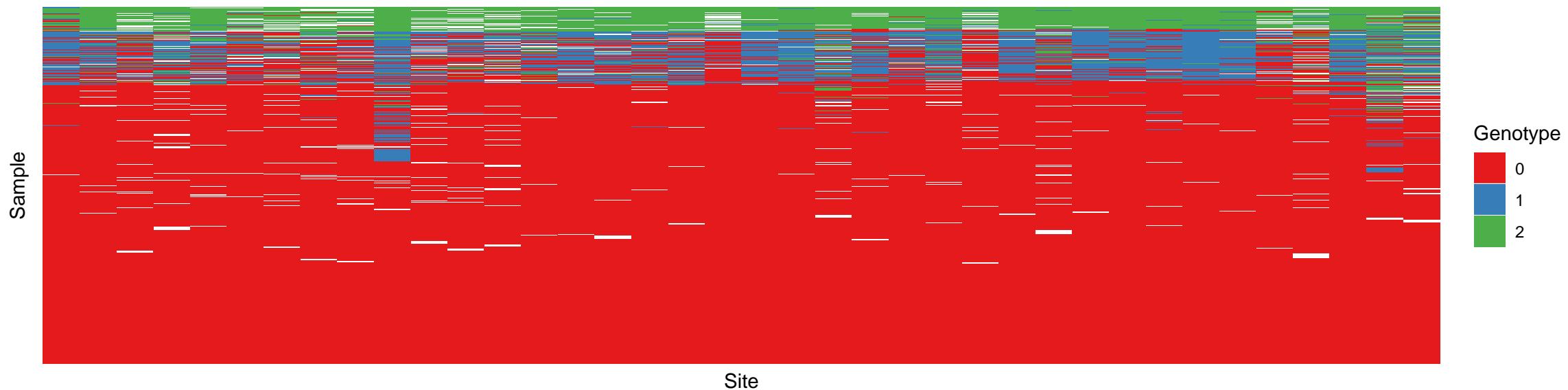
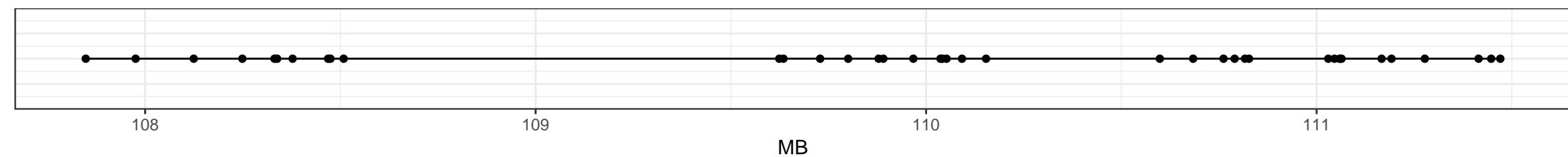


# Ha412HOChr02:107.848–111.47MB Size=3.622MB

1495\_0.59 BetweenSS = 0.975360370624684

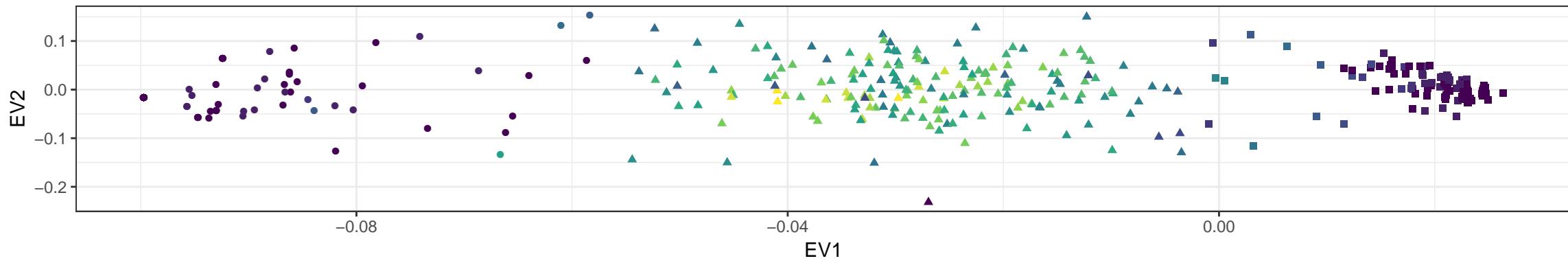


Ha412HOChr02

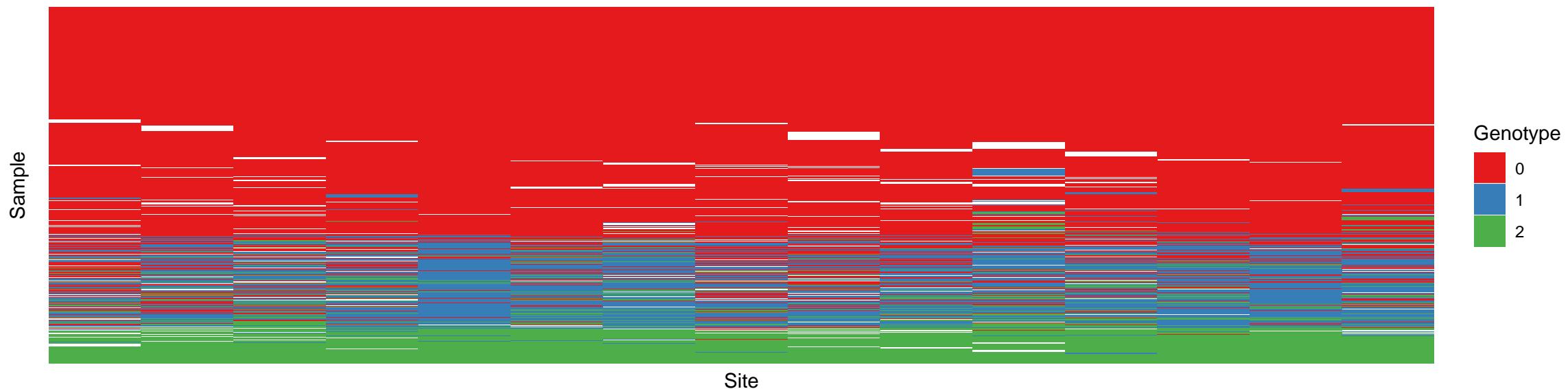
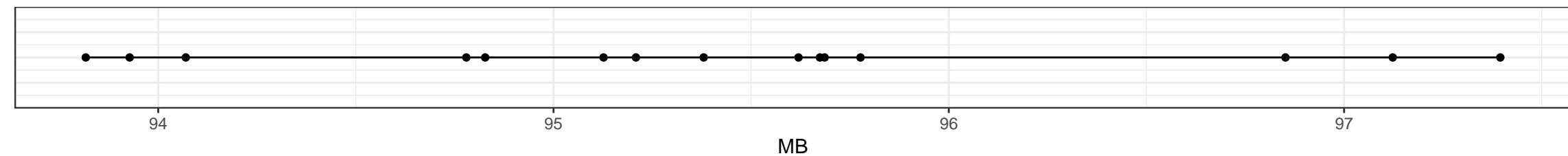


# Ha412HOChr06:93.817–97.395MB Size=3.579MB

1472\_0.58 BetweenSS = 0.95991218103926

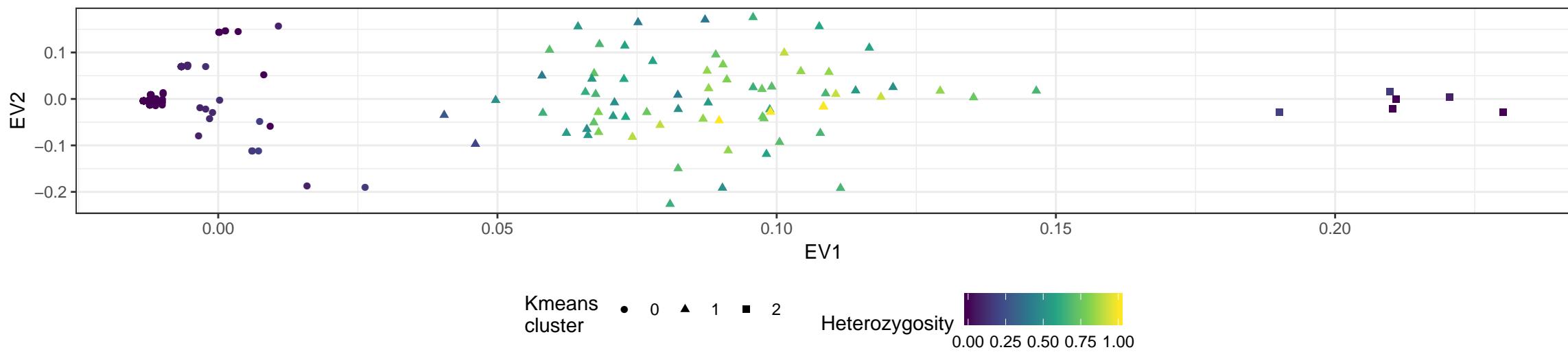


Ha412HOChr06

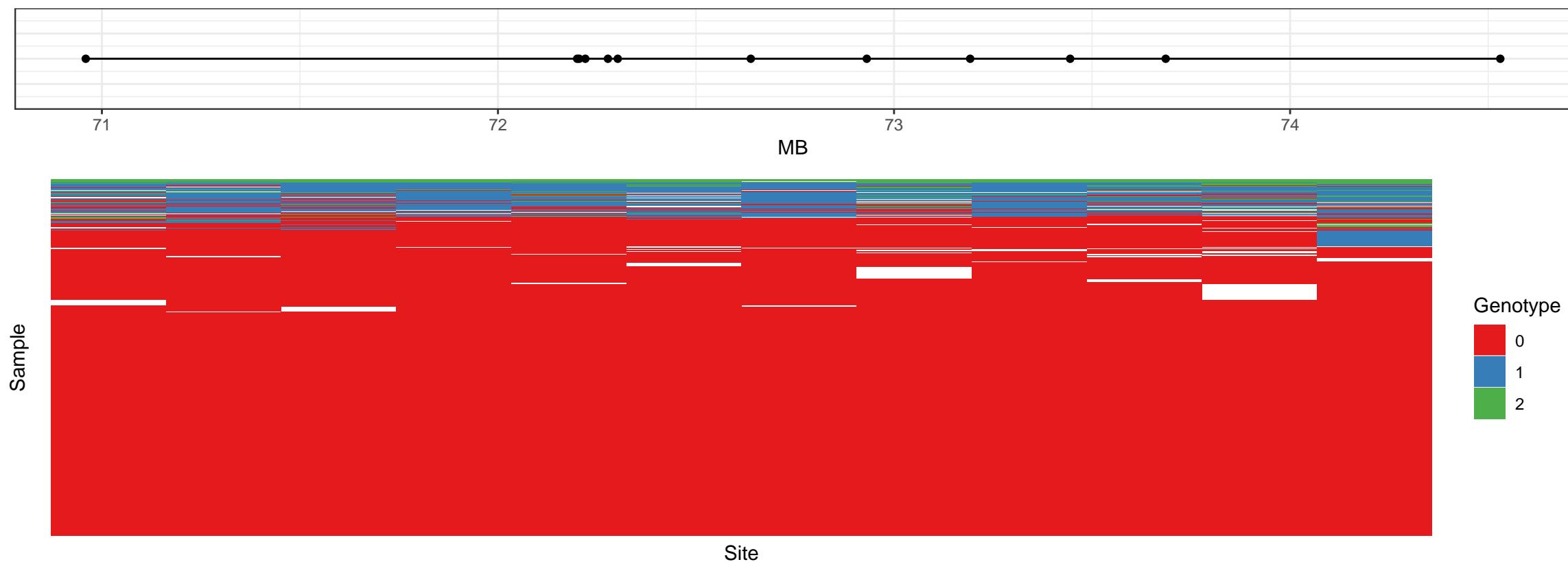


# Ha412HOChr04:70.959–74.531MB Size=3.571MB

2621\_0.42 BetweenSS = 0.957492230662435

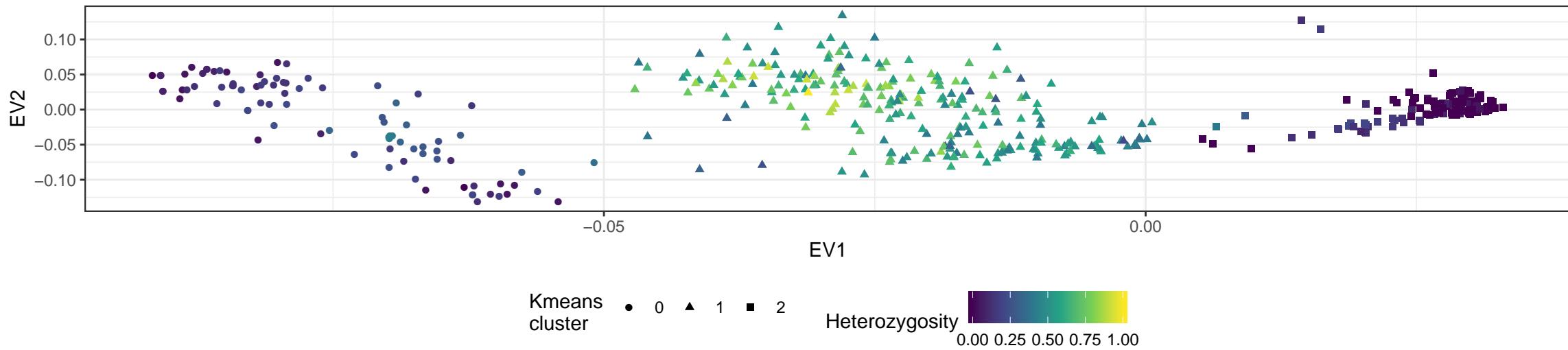


Ha412HOChr04

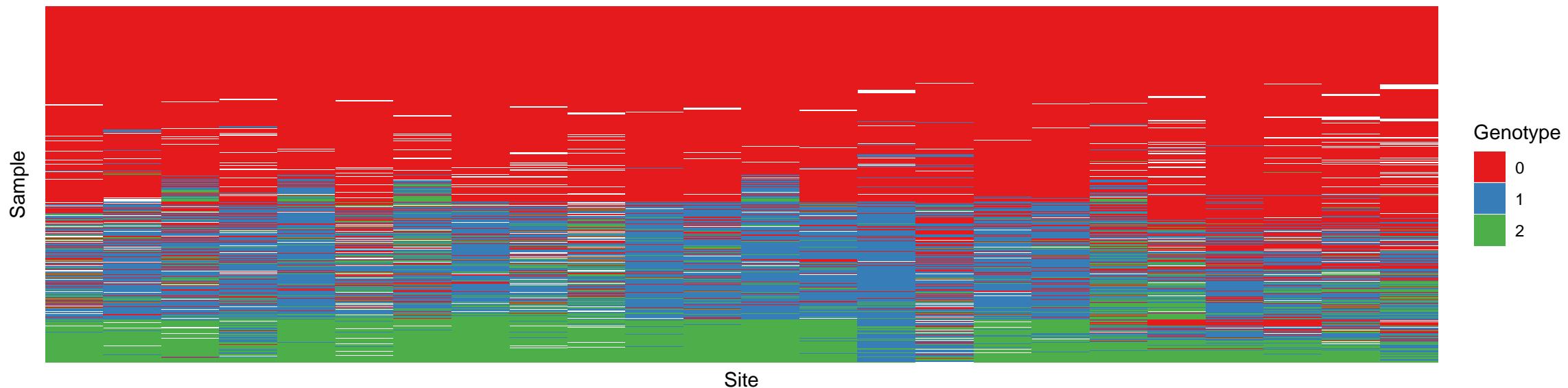
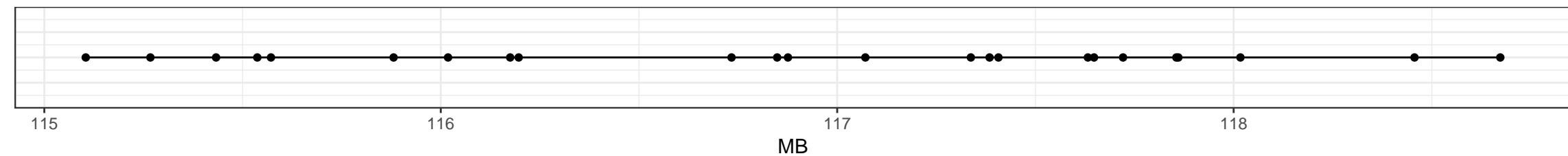


# Ha412HOChr04:115.105–118.673MB Size=3.568MB

2272\_0.48 BetweenSS = 0.951440377248853

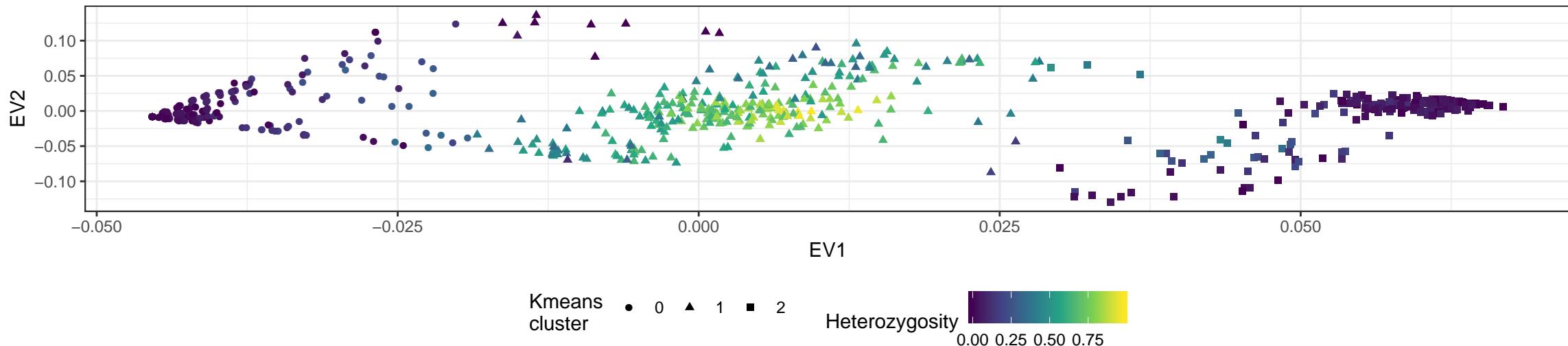


Ha412HOChr04

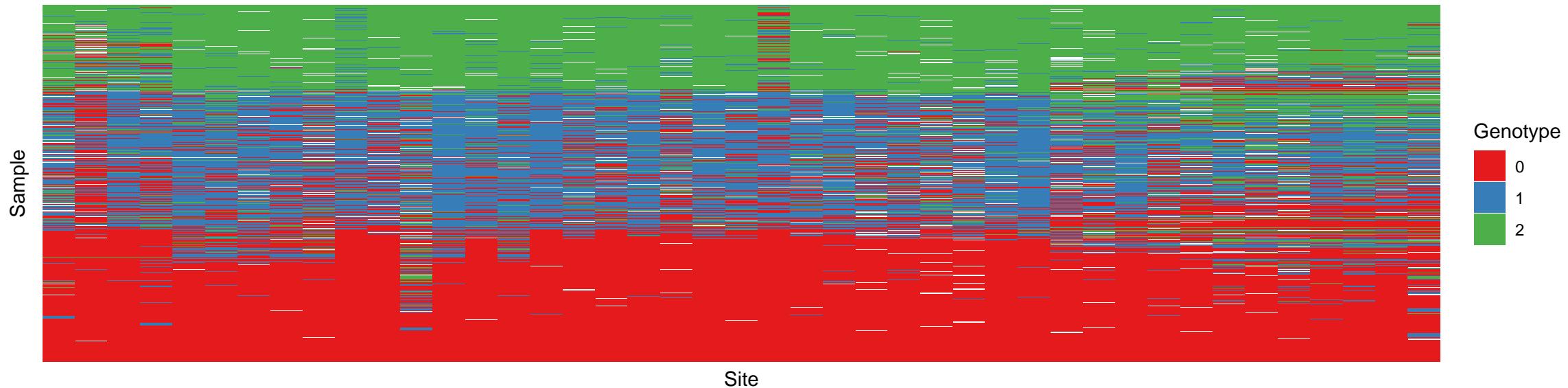
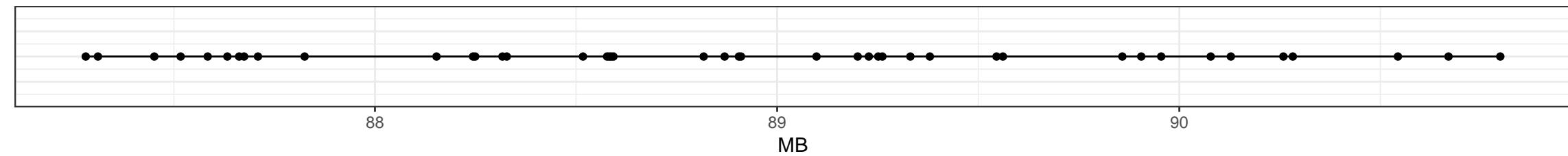


# Ha412HOChr11:87.281–90.798MB Size=3.517MB

1760\_0.5 BetweenSS = 0.953073054226618

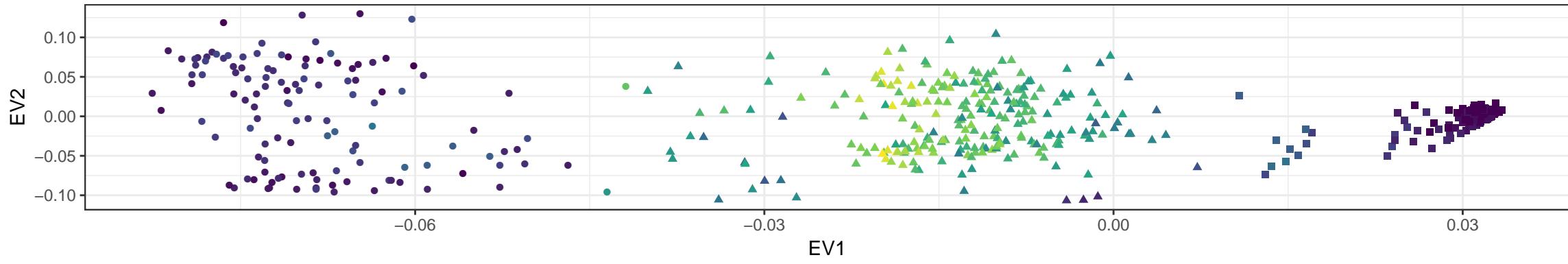


Ha412HOChr11



# Ha412HOChr11:126.757–130.214MB Size=3.456MB

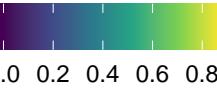
2503\_0.33 BetweenSS = 0.970639576074564



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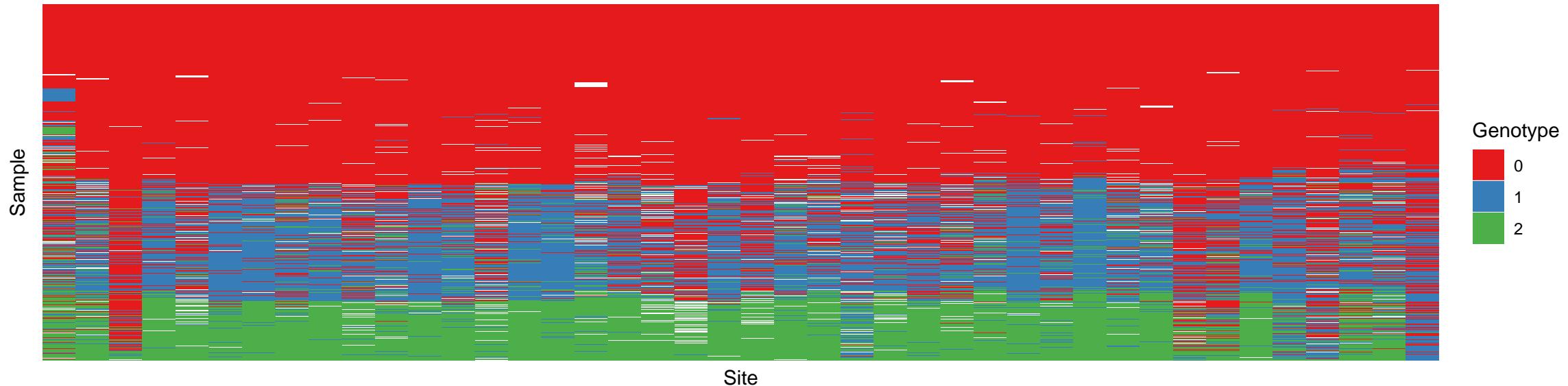
Heterozygosity



Ha412HOChr11



MB



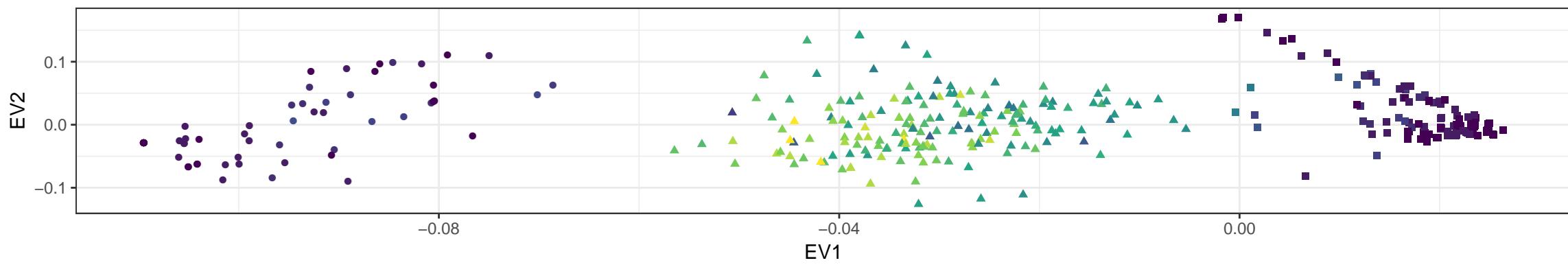
Genotype

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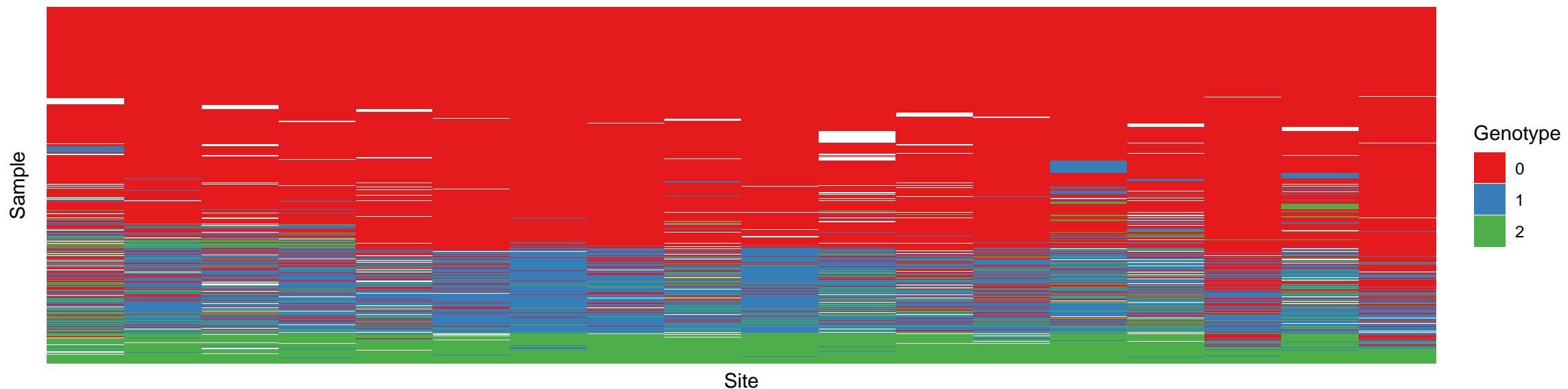
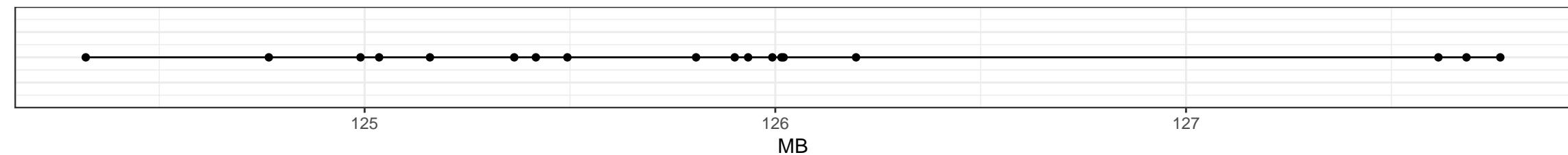
Site

# Ha412HOChr04:124.321–127.765MB Size=3.444MB

2321\_0.47 BetweenSS = 0.961549425537236

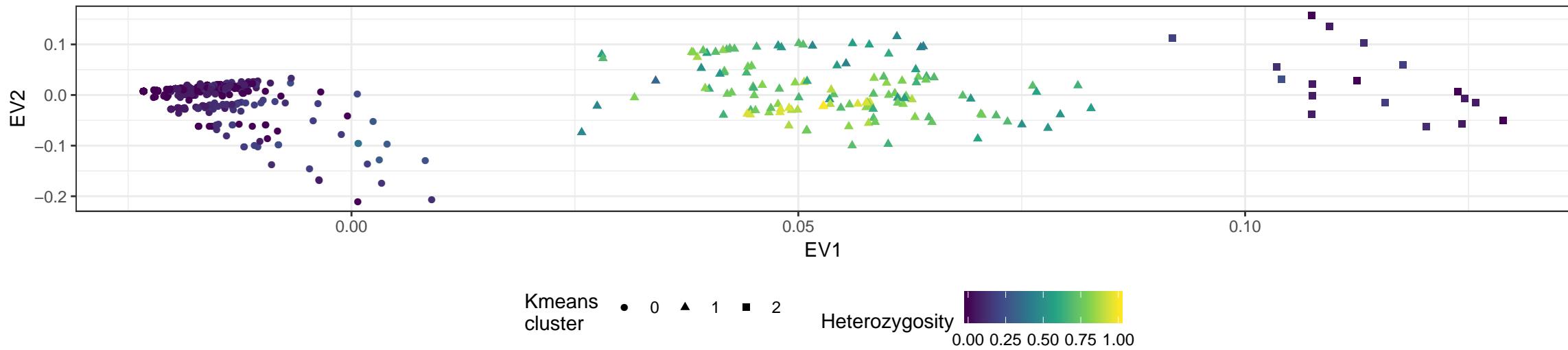


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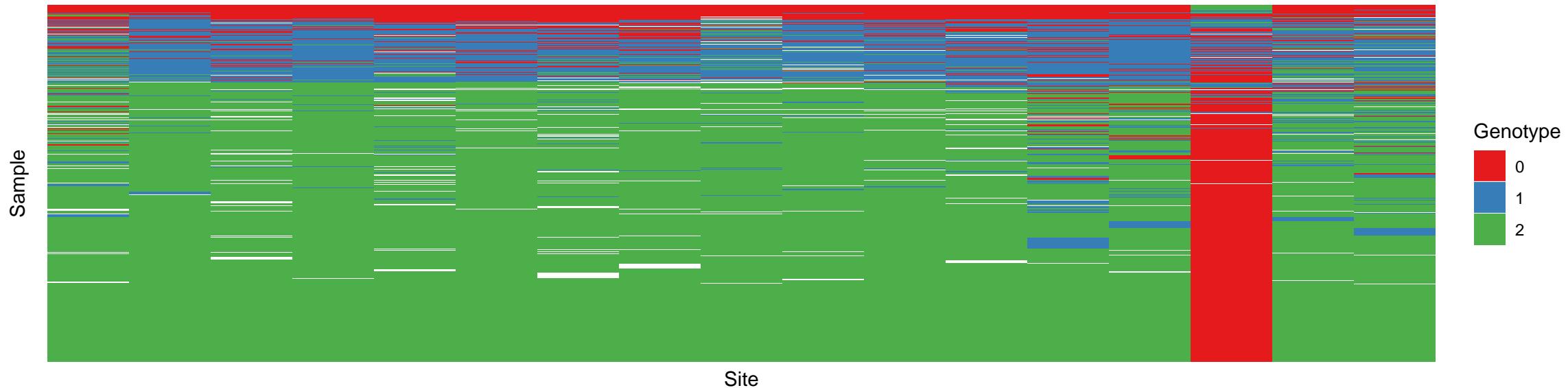
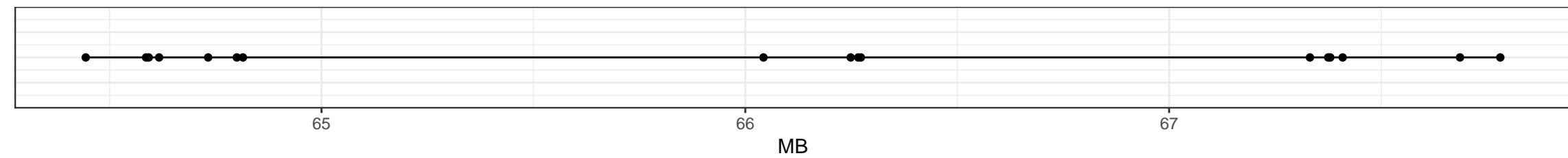


# Ha412HOChr10:64.444–67.781MB Size=3.338MB

2569\_0.4 BetweenSS = 0.963809381773

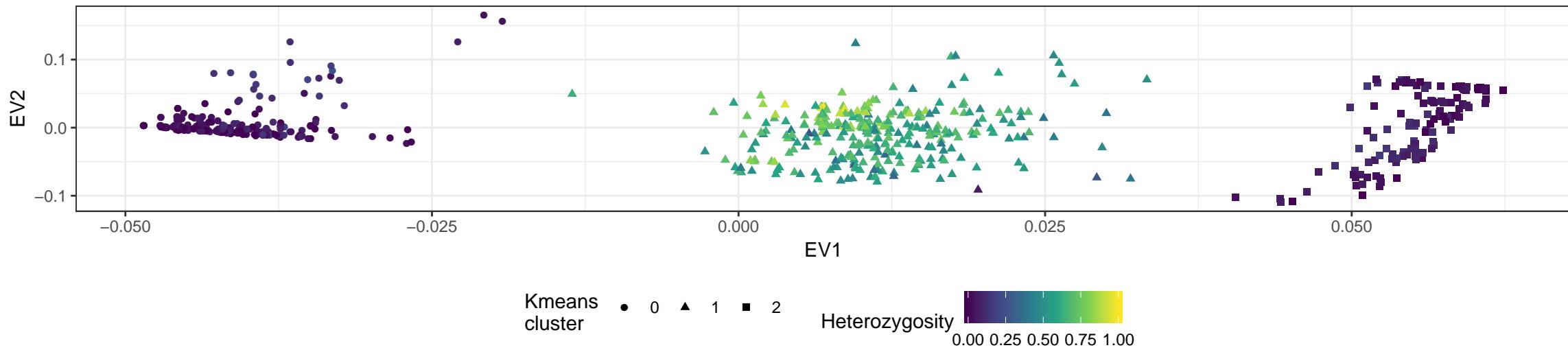


Ha412HOChr10

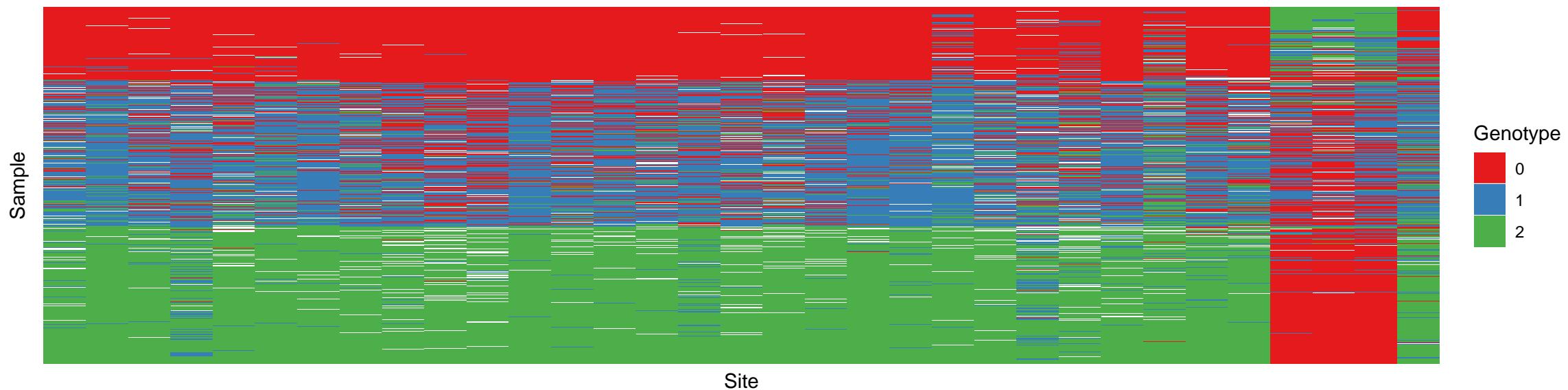
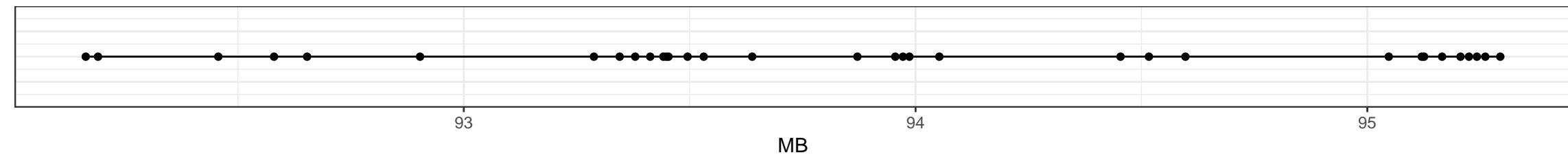


# Ha412HOChr04:92.163–95.294MB Size=3.131MB

2253\_0.48 BetweenSS = 0.978971613893366

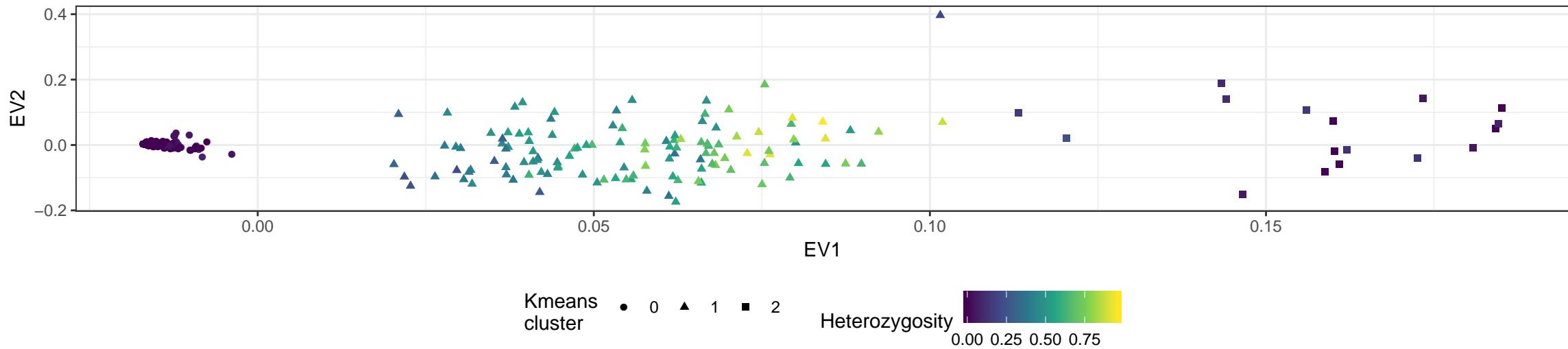


Ha412HOChr04

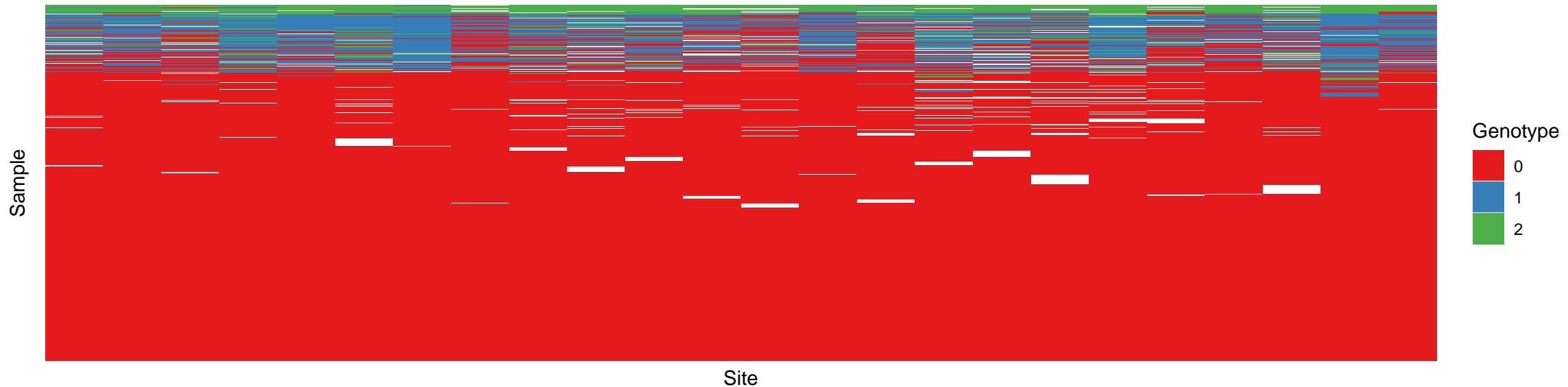
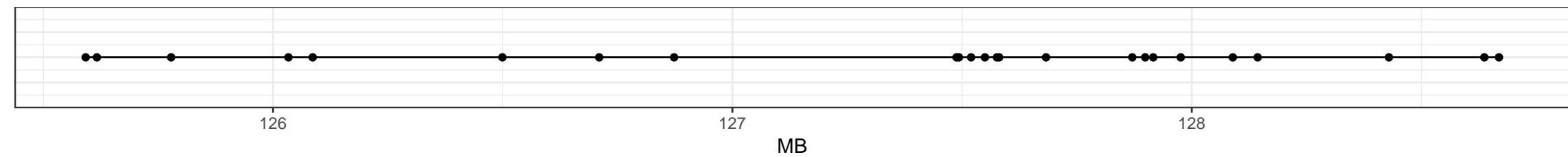


# Ha412HOChr06:125.592–128.669MB Size=3.077MB

1854\_0.51 BetweenSS = 0.951139021112648

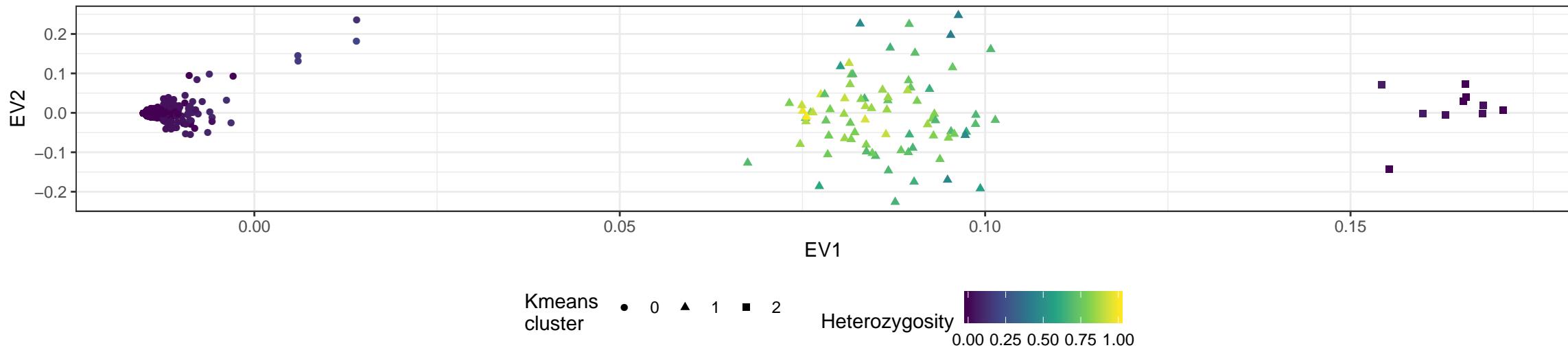


Ha412HOChr06

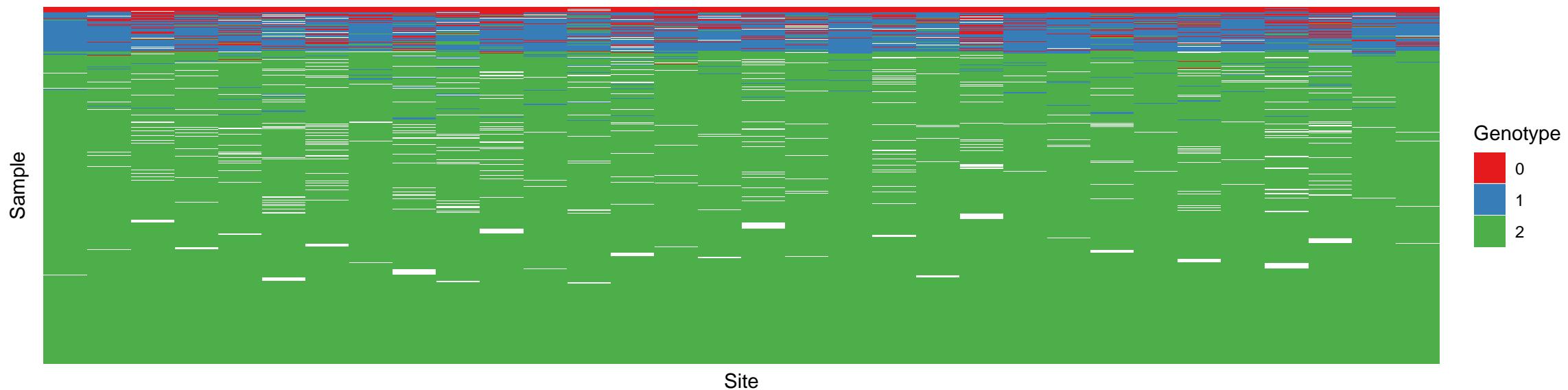


# Ha412HOChr02:74.824–77.84MB Size=3.016MB

653\_0.7 BetweenSS = 0.990726521052948

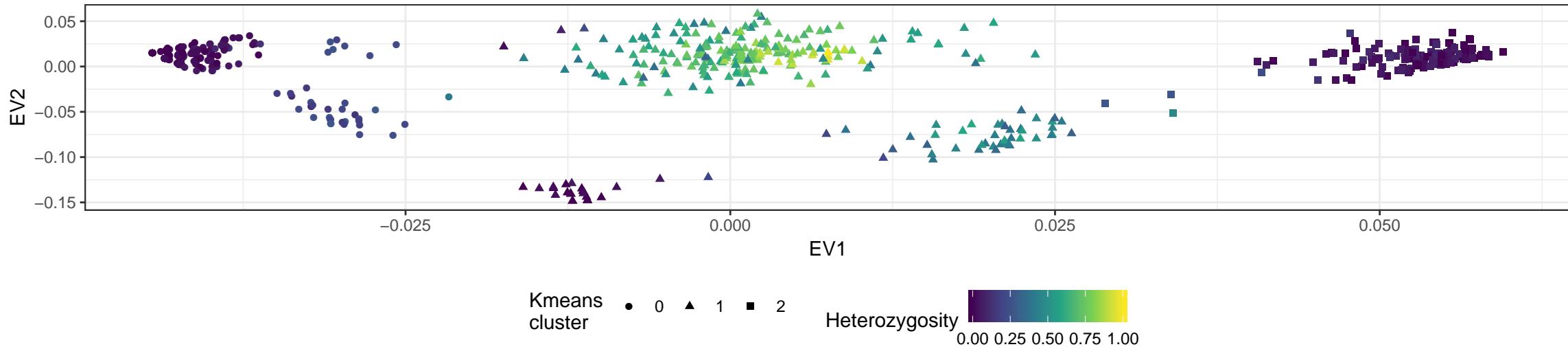


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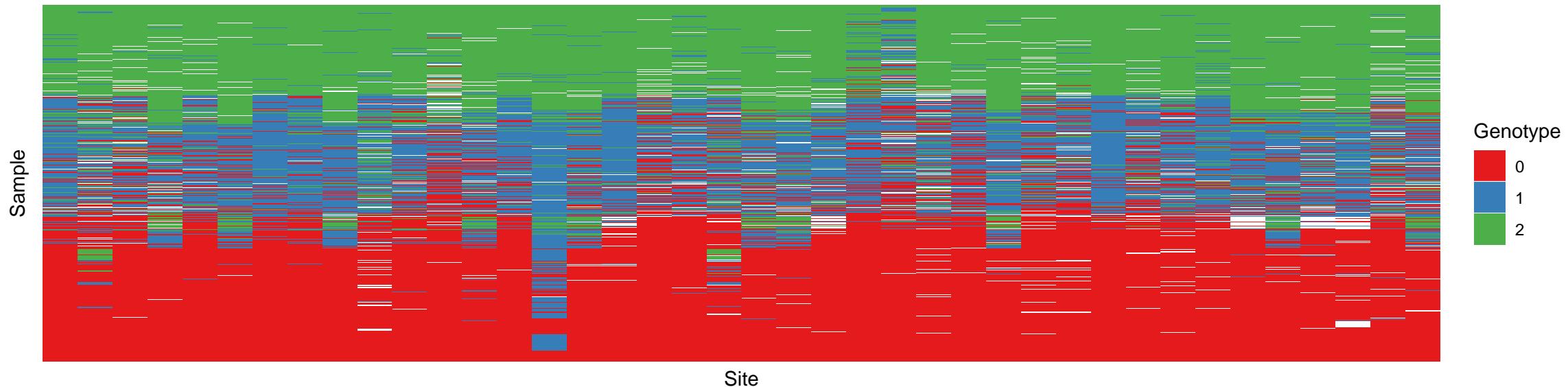
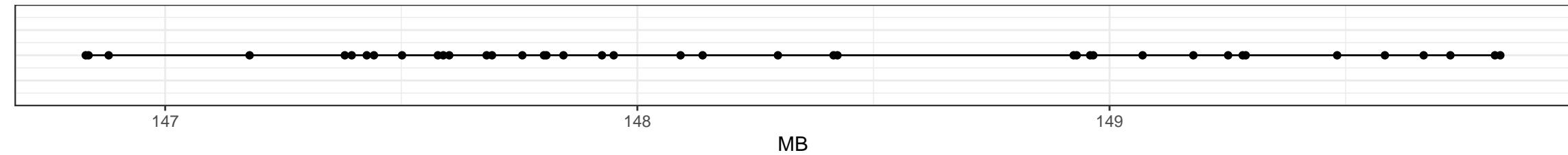


# Ha412HOChr12:146.832–149.827MB Size=2.996MB

1846\_0.56 BetweenSS = 0.96304095698869

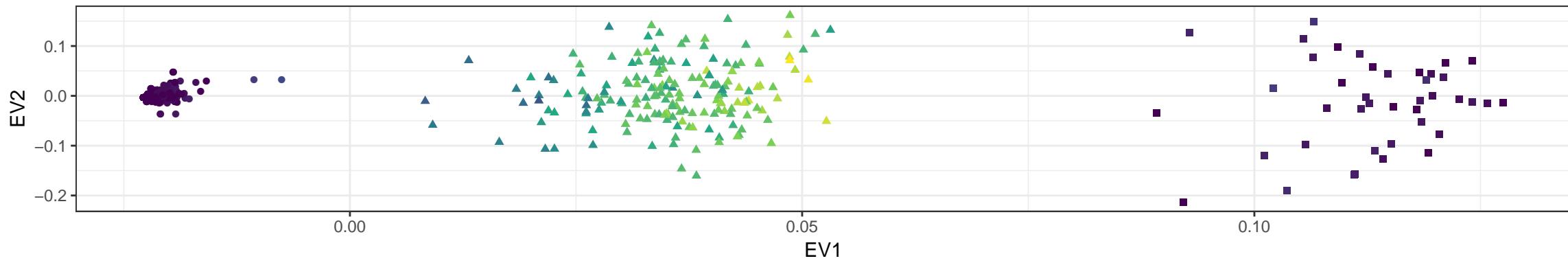


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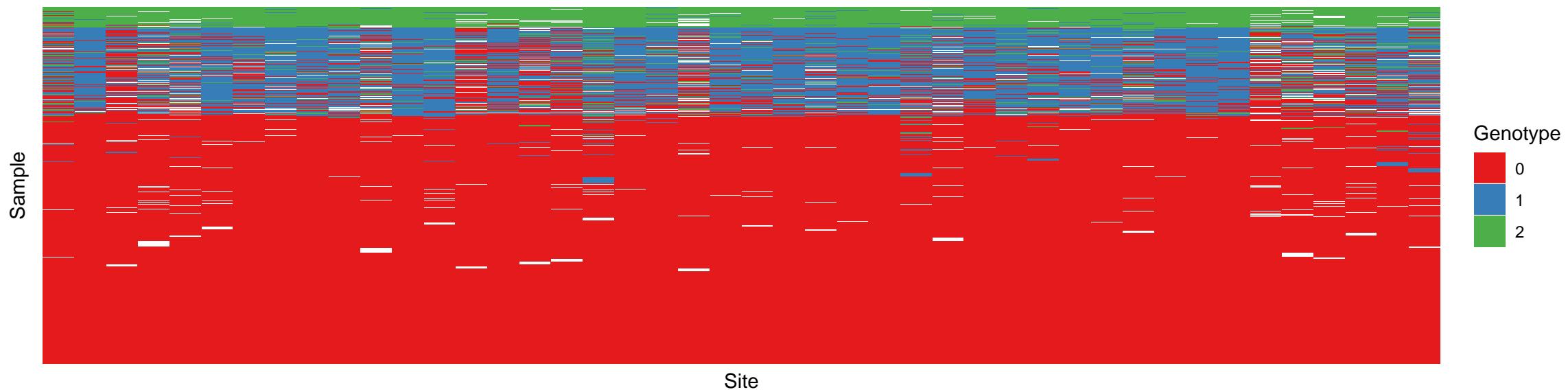
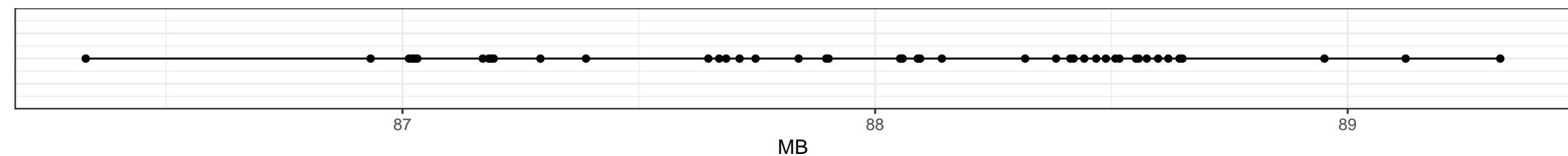


# Ha412HOChr04:86.33–89.323MB Size=2.993MB

1916\_0.54 BetweenSS = 0.984080478940307

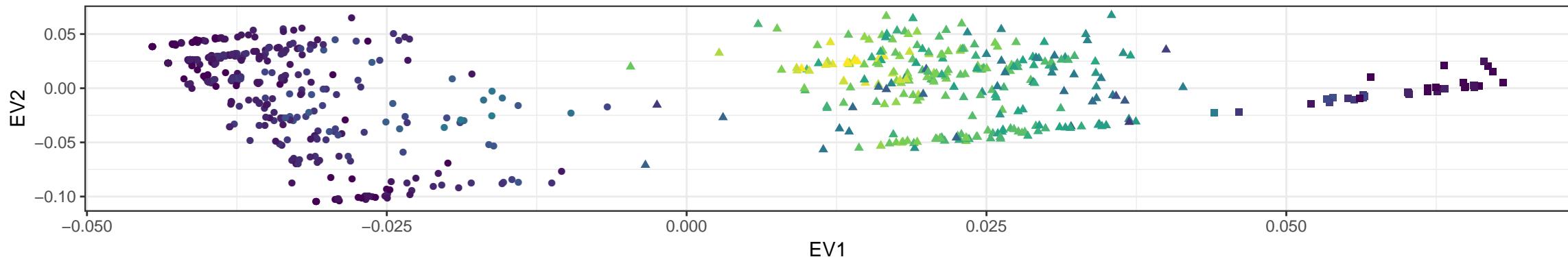


Ha412HOChr04



# Ha412HOChr17:104.731–107.628MB Size=2.897MB

2163\_0.46 BetweenSS = 0.961836443309965



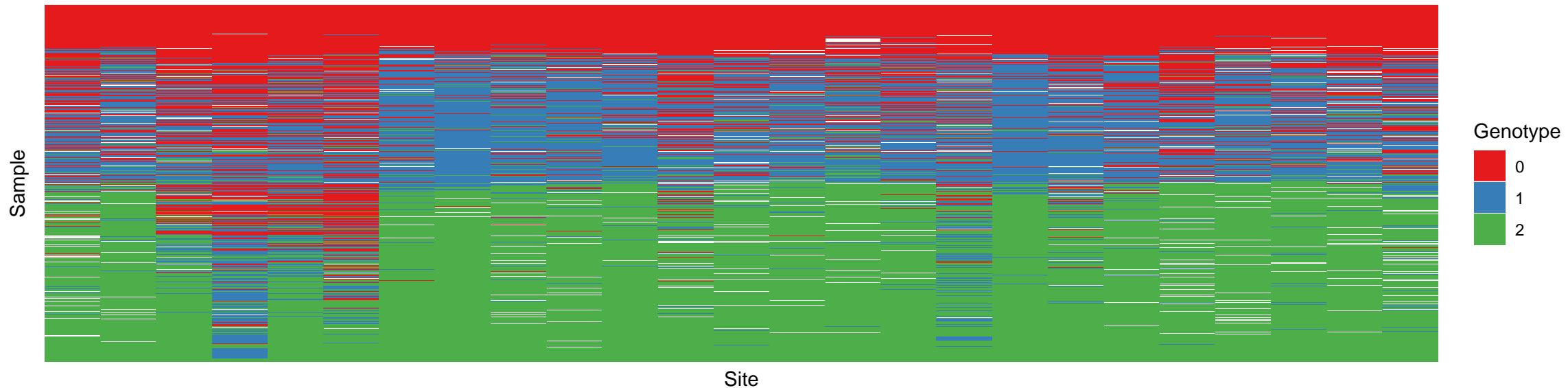
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Heterozygosity  
0.00 0.25 0.50 0.75

Ha412HOChr17



MB

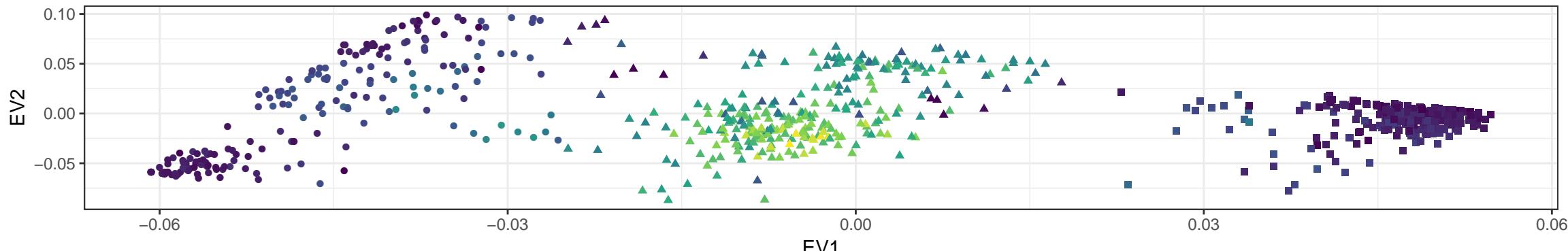


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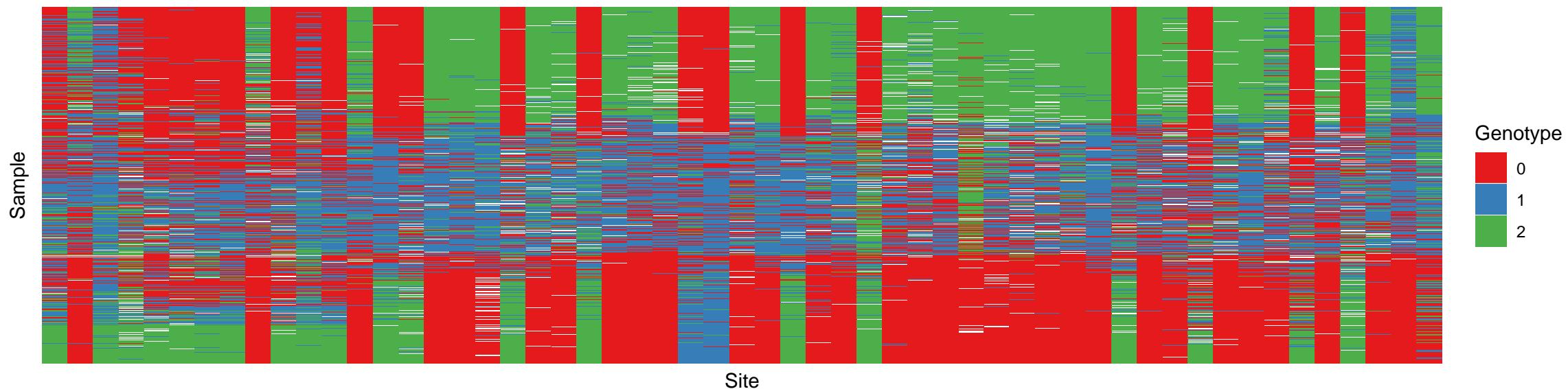
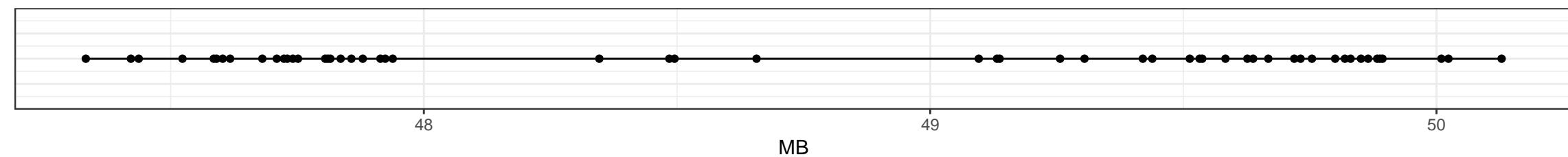
Site

# Ha412HOChr10:47.332–50.129MB Size=2.796MB

2594\_0.39 BetweenSS = 0.954159573969474

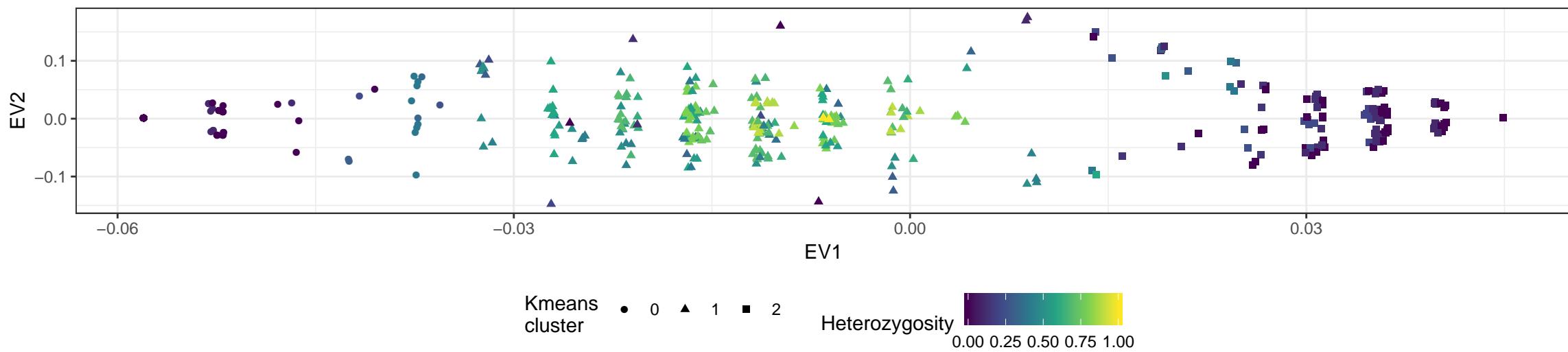


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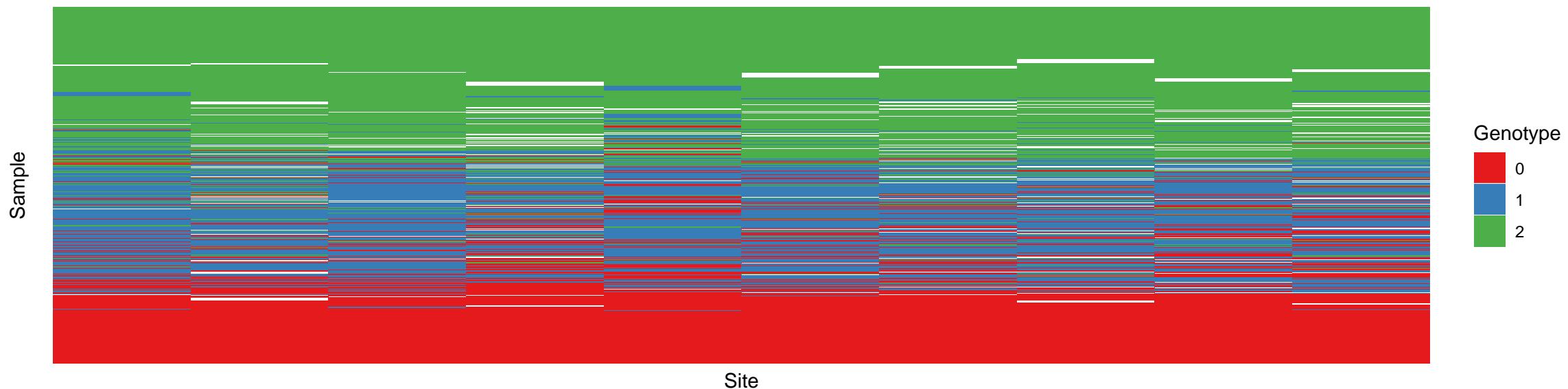


# Ha412HOChr05:67.22–70.005MB Size=2.785MB

1135\_0.62 BetweenSS = 0.95864362080905

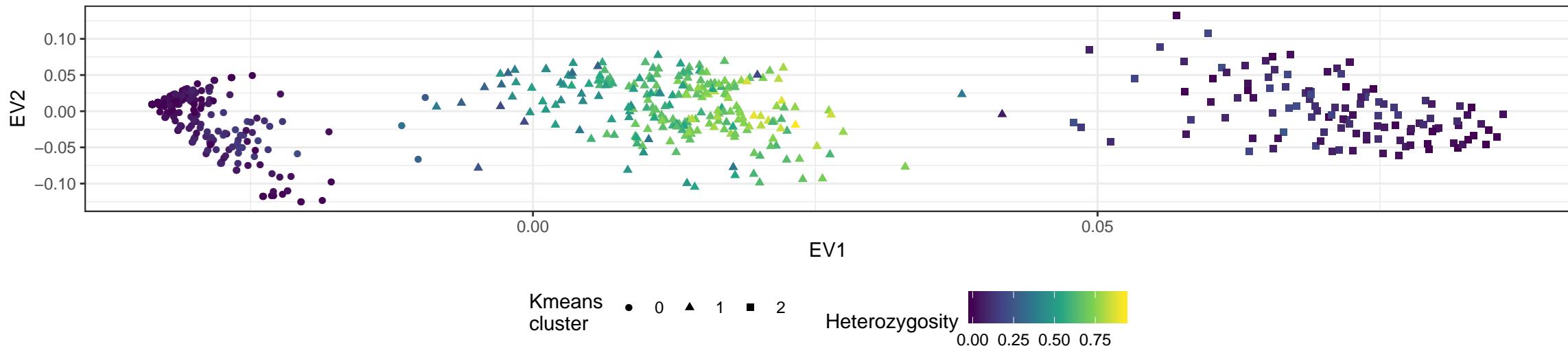


Ha412HOChr05

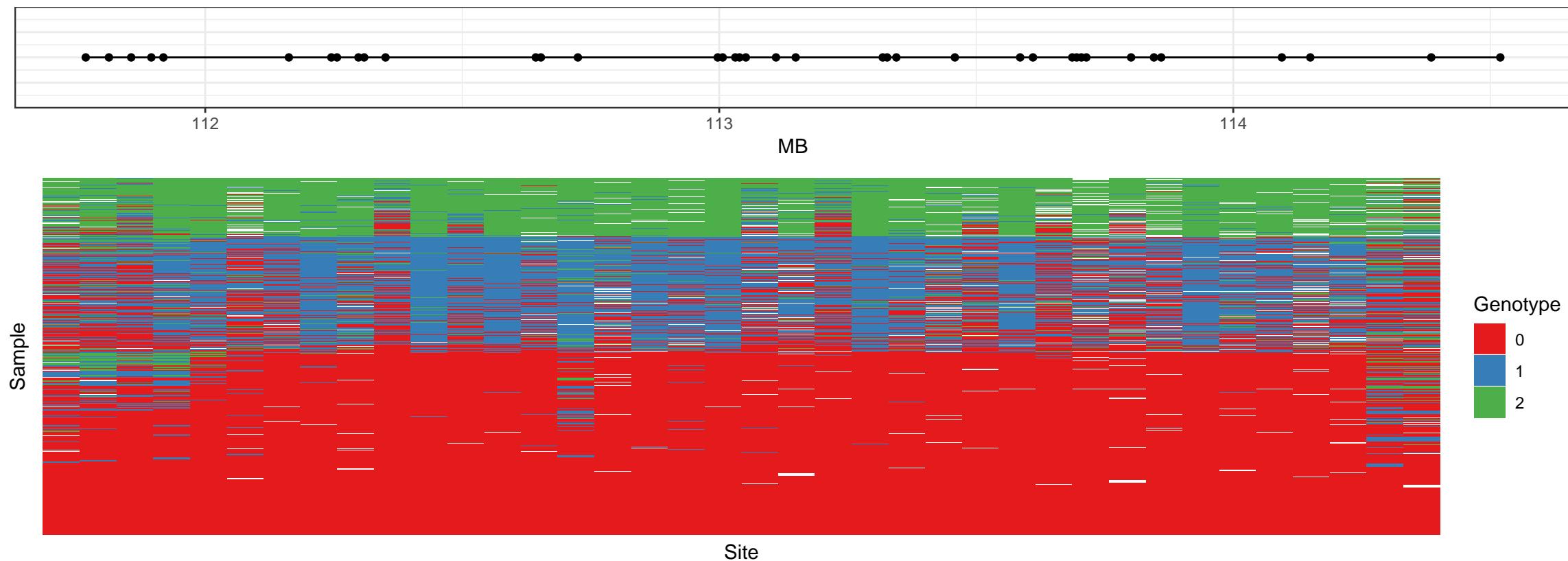


# Ha412HOChr02:111.768–114.519MB Size=2.752MB

2287\_0.43 BetweenSS = 0.973496139614362

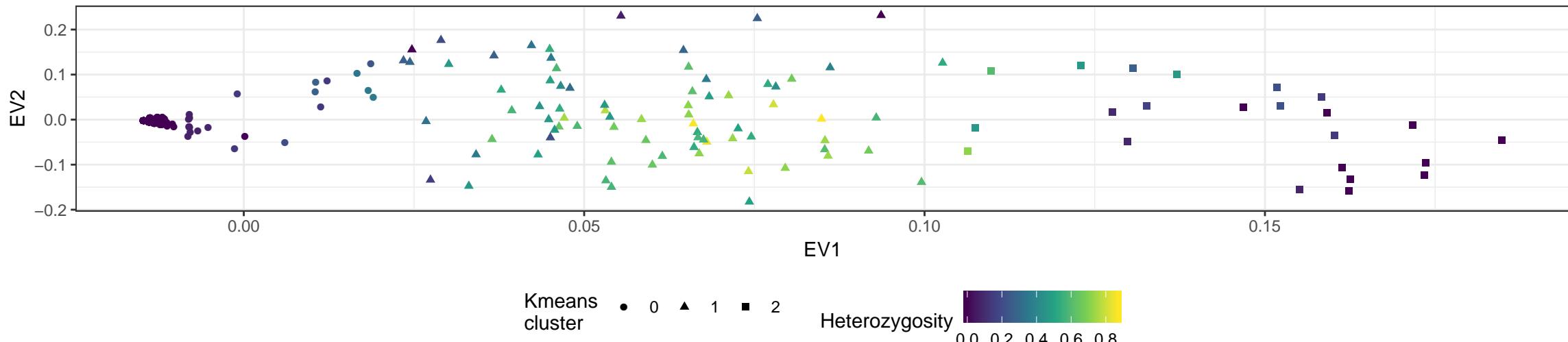


Ha412HOChr02

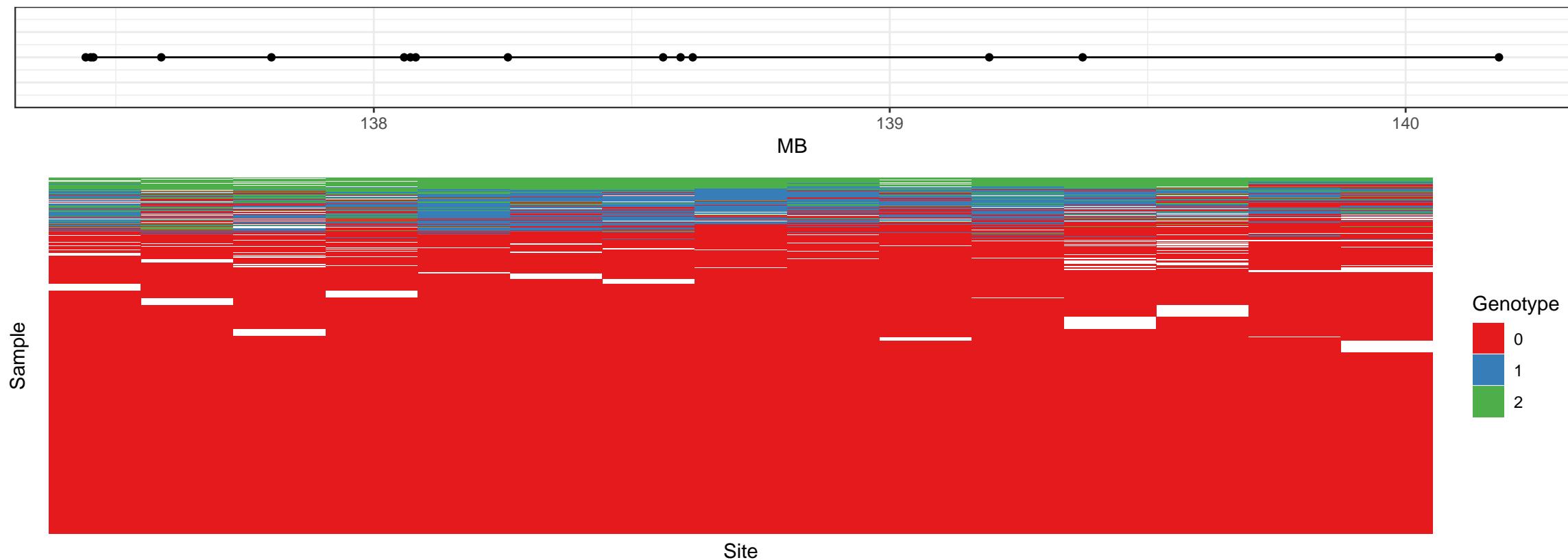


# Ha412HOChr08:137.441–140.181MB Size=2.739MB

1042\_0.59 BetweenSS = 0.951507780938157

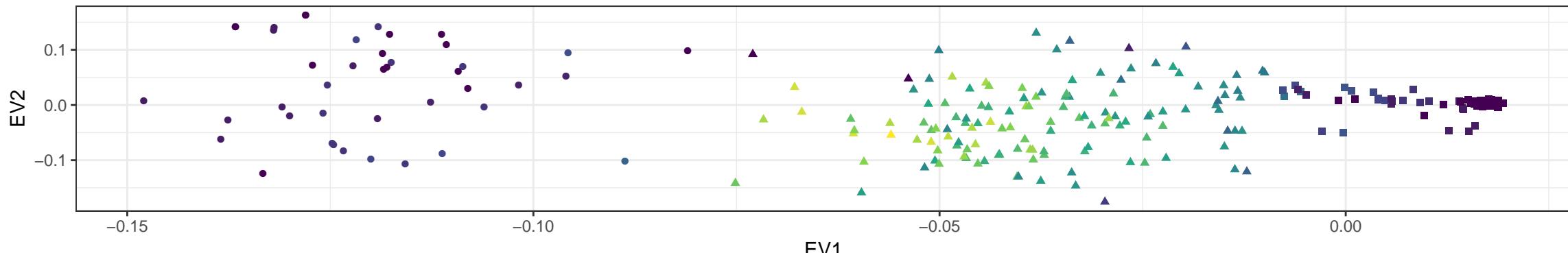


Ha412HOChr08

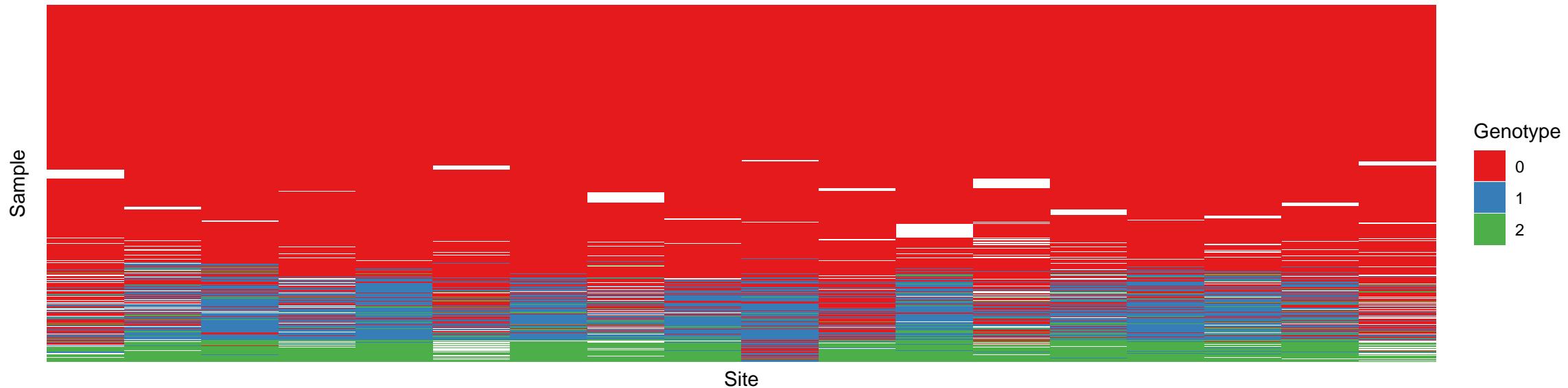
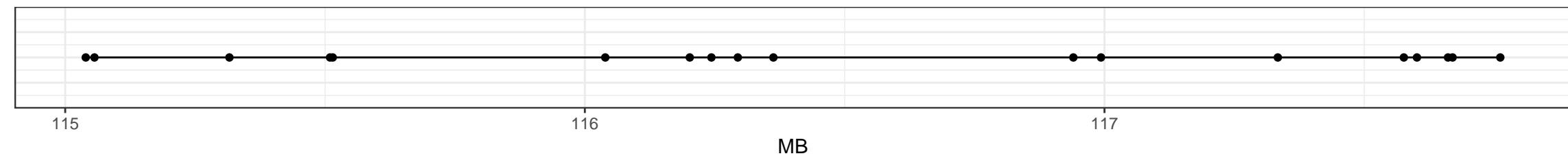


# Ha412HOChr12:115.04–117.762MB Size=2.722MB

2108\_0.51 BetweenSS = 0.956643582409235

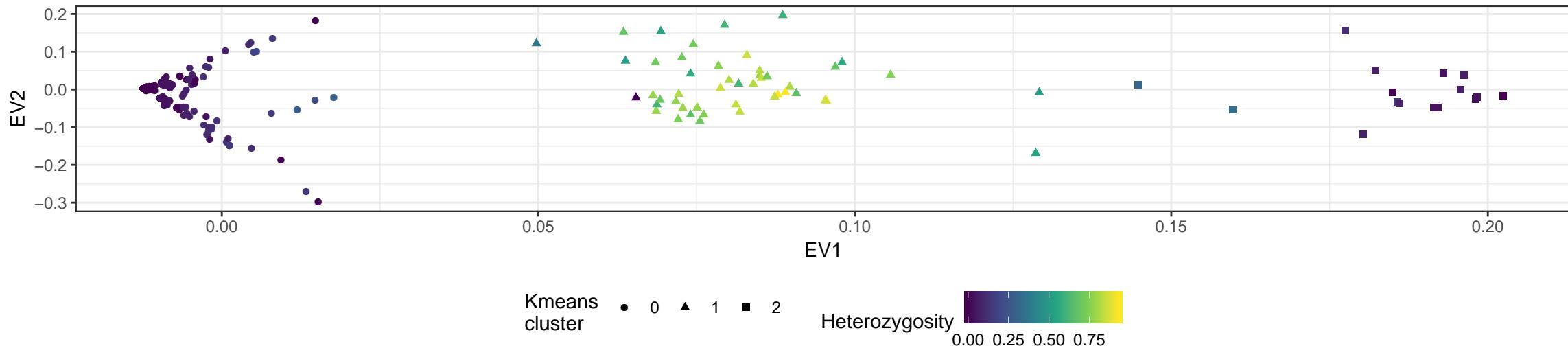


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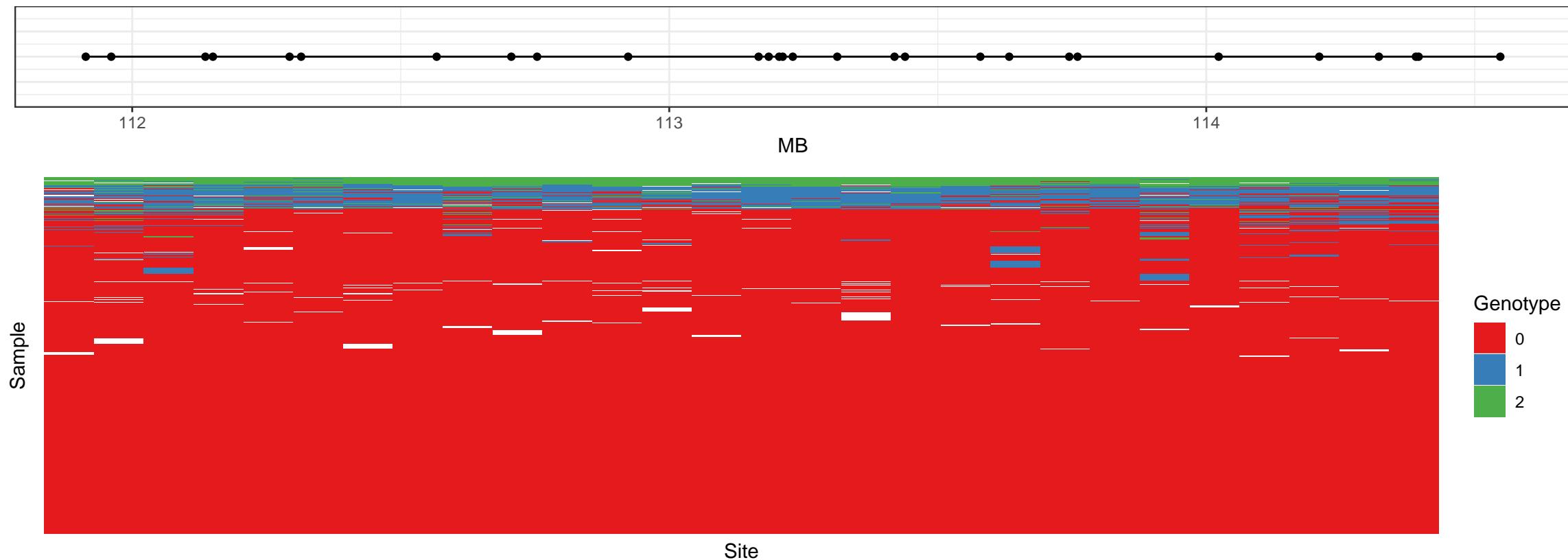


# Ha412HOChr02:111.913–114.548MB Size=2.634MB

1557\_0.58 BetweenSS = 0.976222115285813

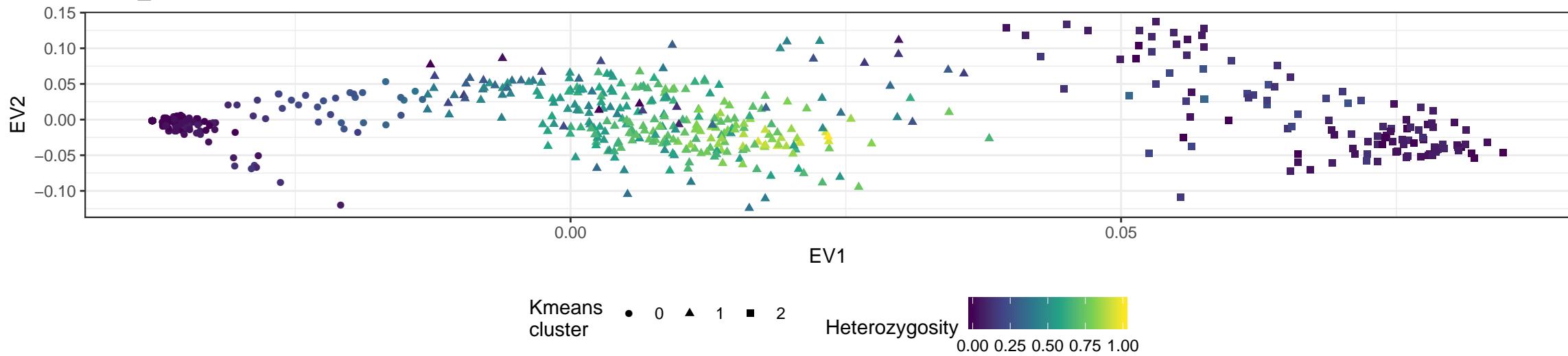


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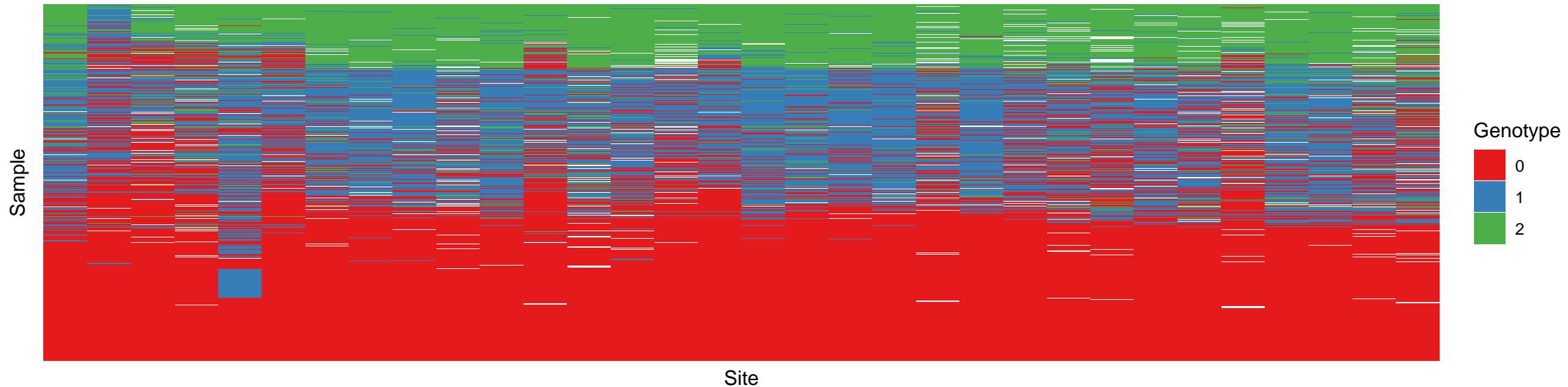
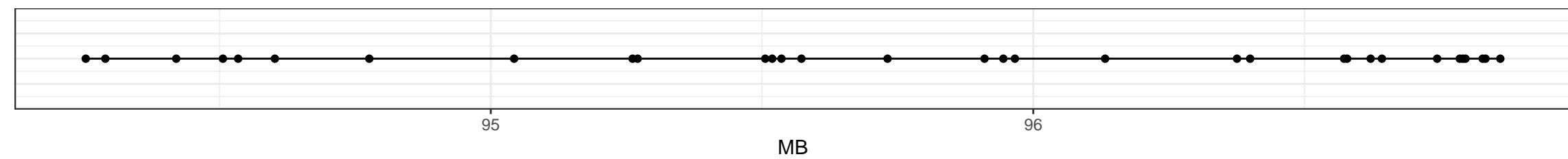


# Ha412HOChr10:94.253–96.861MB Size=2.607MB

2475\_0.42 BetweenSS = 0.950156141930617

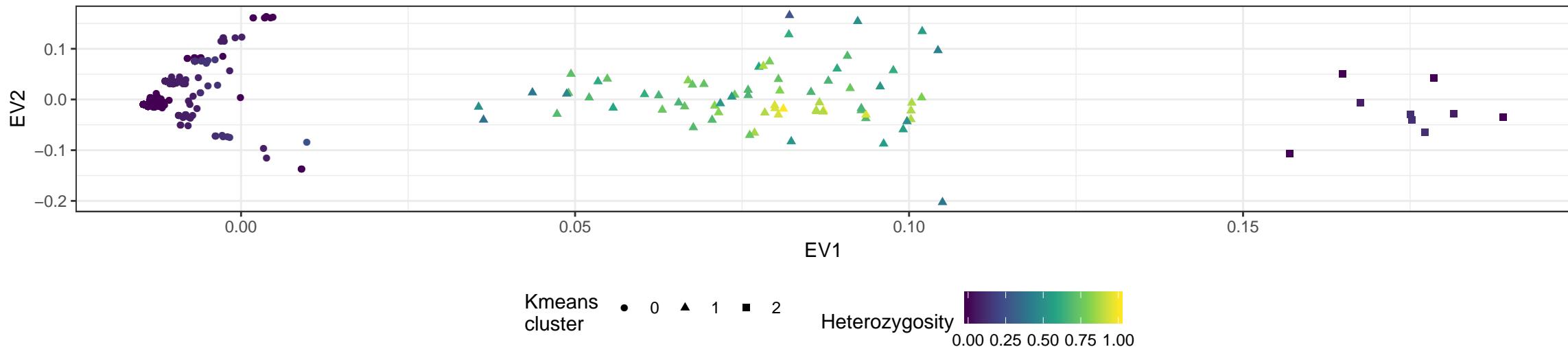


Ha412HOChr10

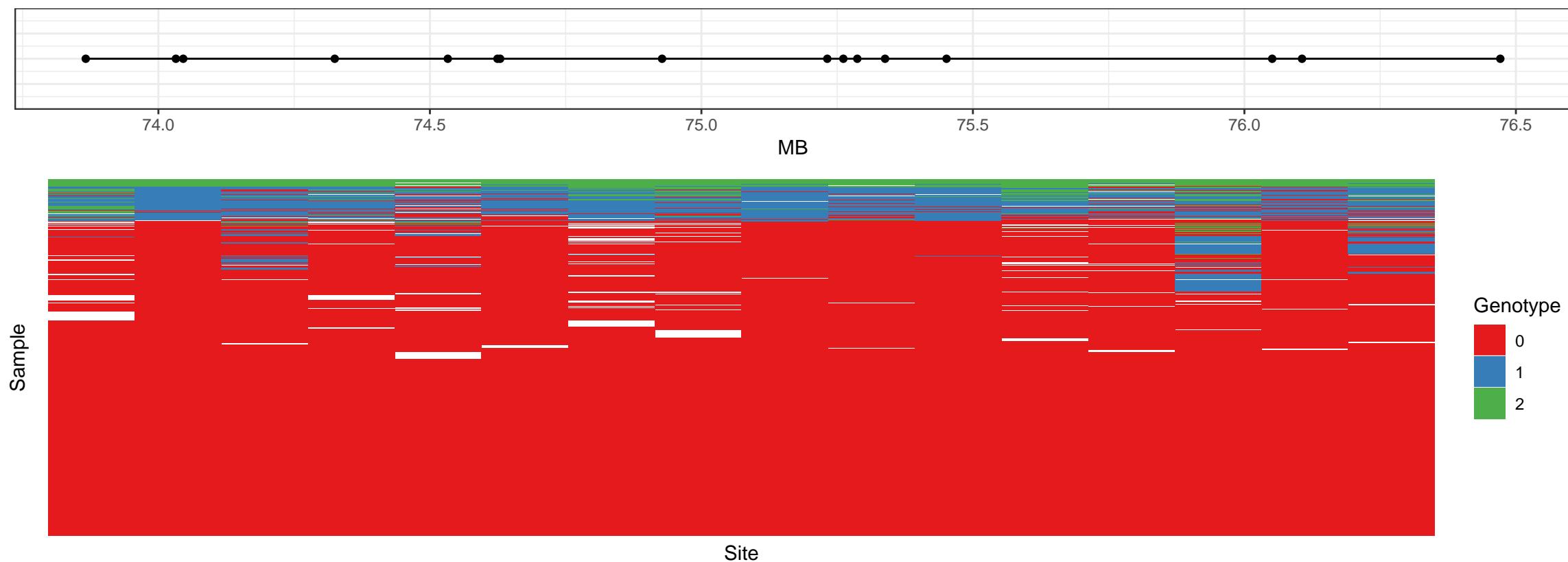


# Ha412HOChr03:73.866–76.471MB Size=2.605MB

1485\_0.5 BetweenSS = 0.968486966479154

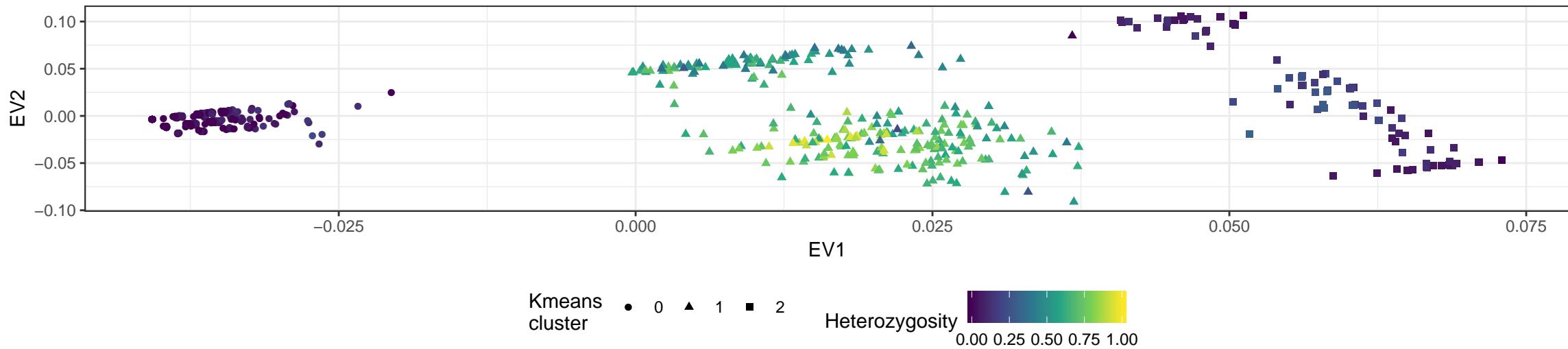


Ha412HOChr03

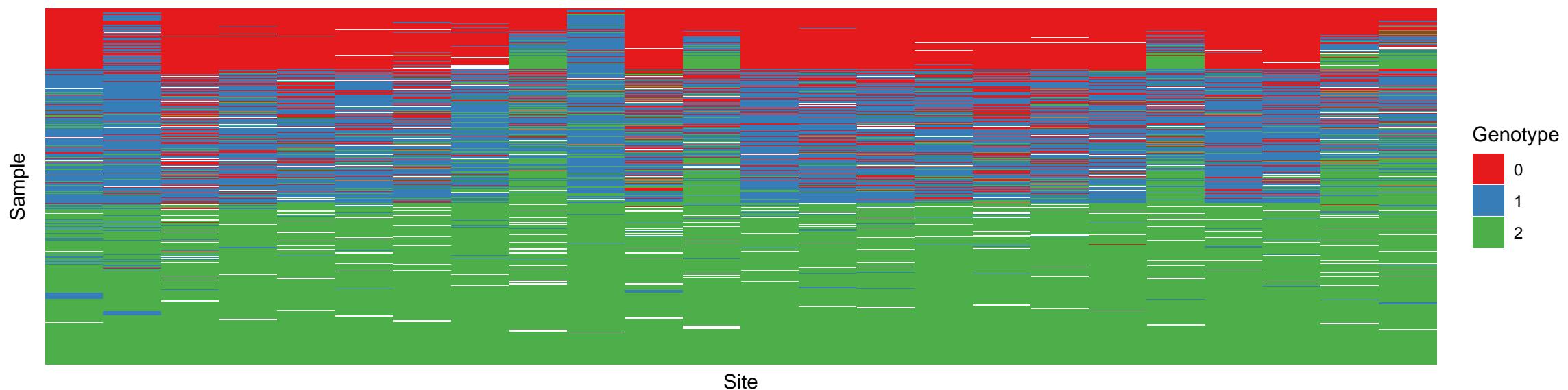
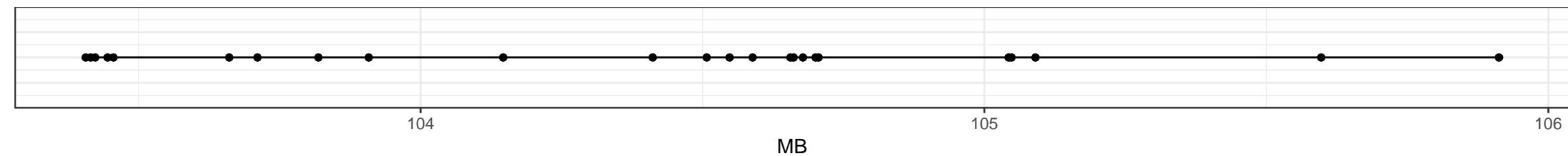


# Ha412HOChr11:103.406–105.912MB Size=2.506MB

2060\_0.44 BetweenSS = 0.96527819361249

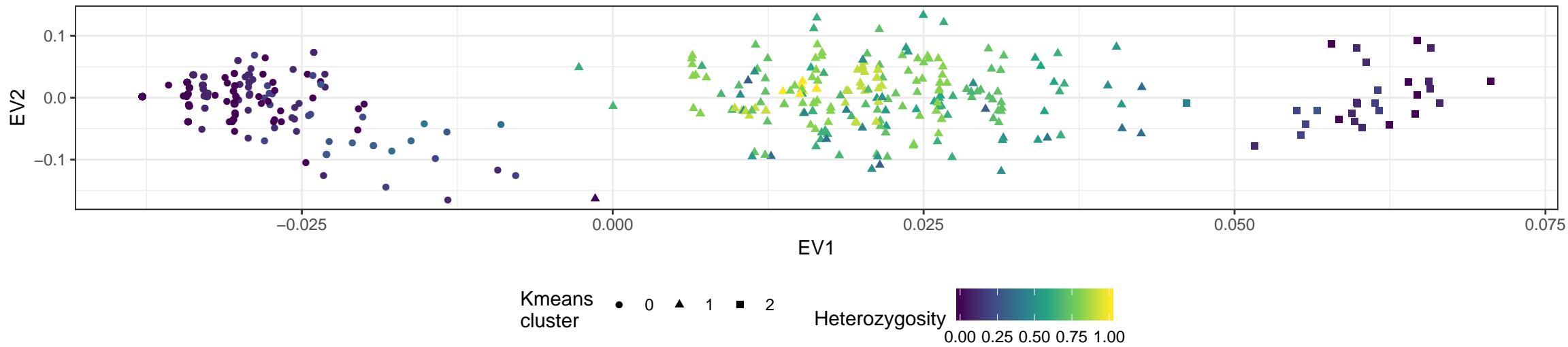


Ha412HOChr11

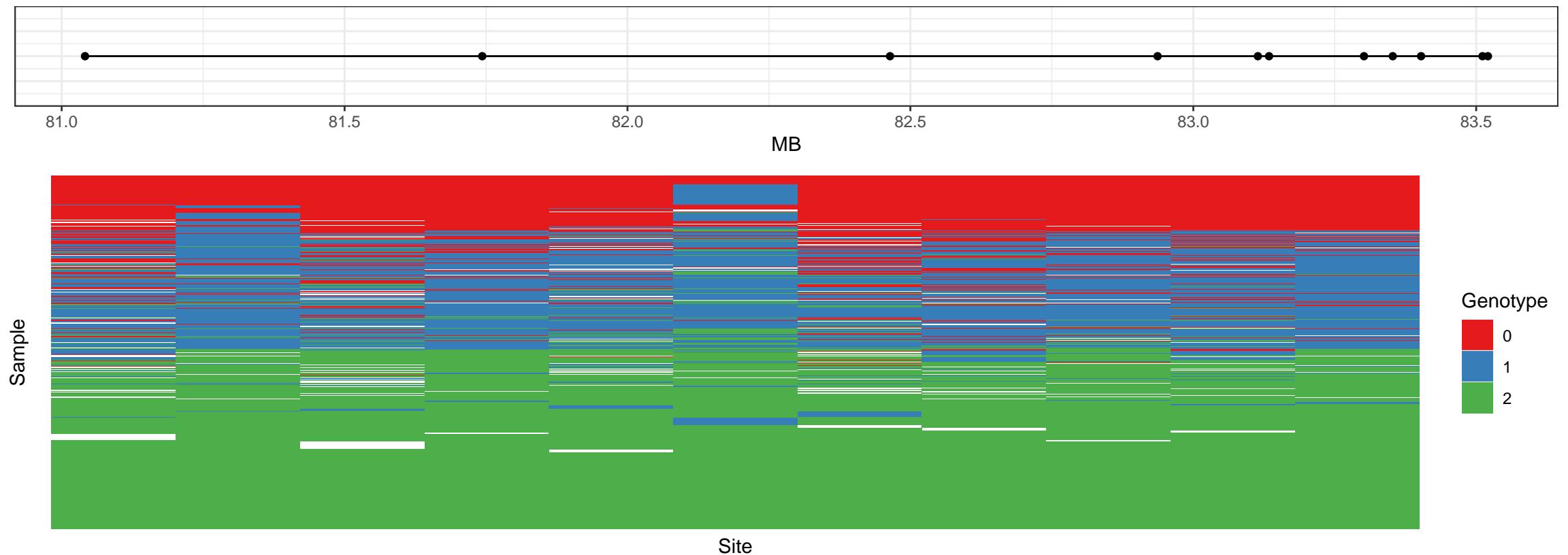


# Ha412HOChr02:81.041–83.521MB Size=2.479MB

1697\_0.56 BetweenSS = 0.970695529228895

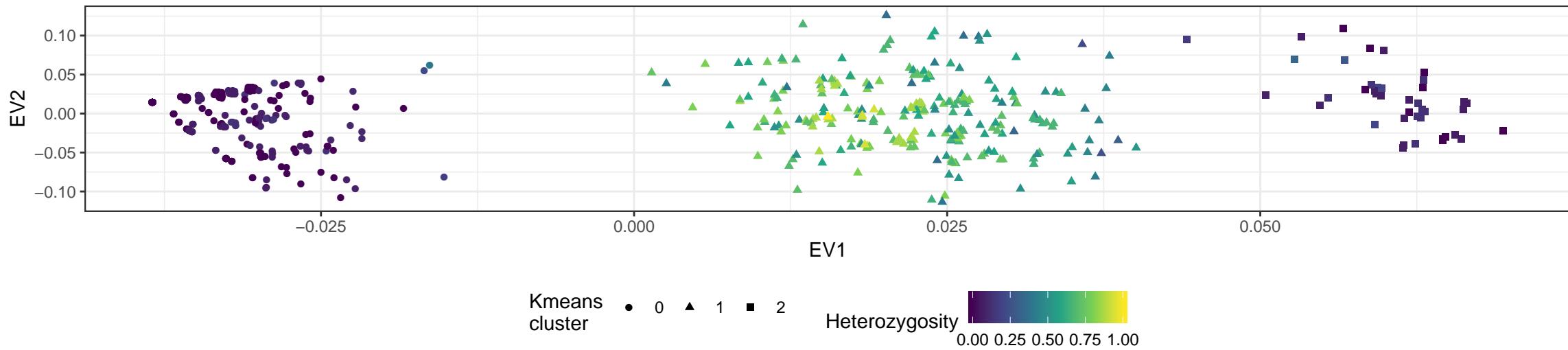


Ha412HOChr02

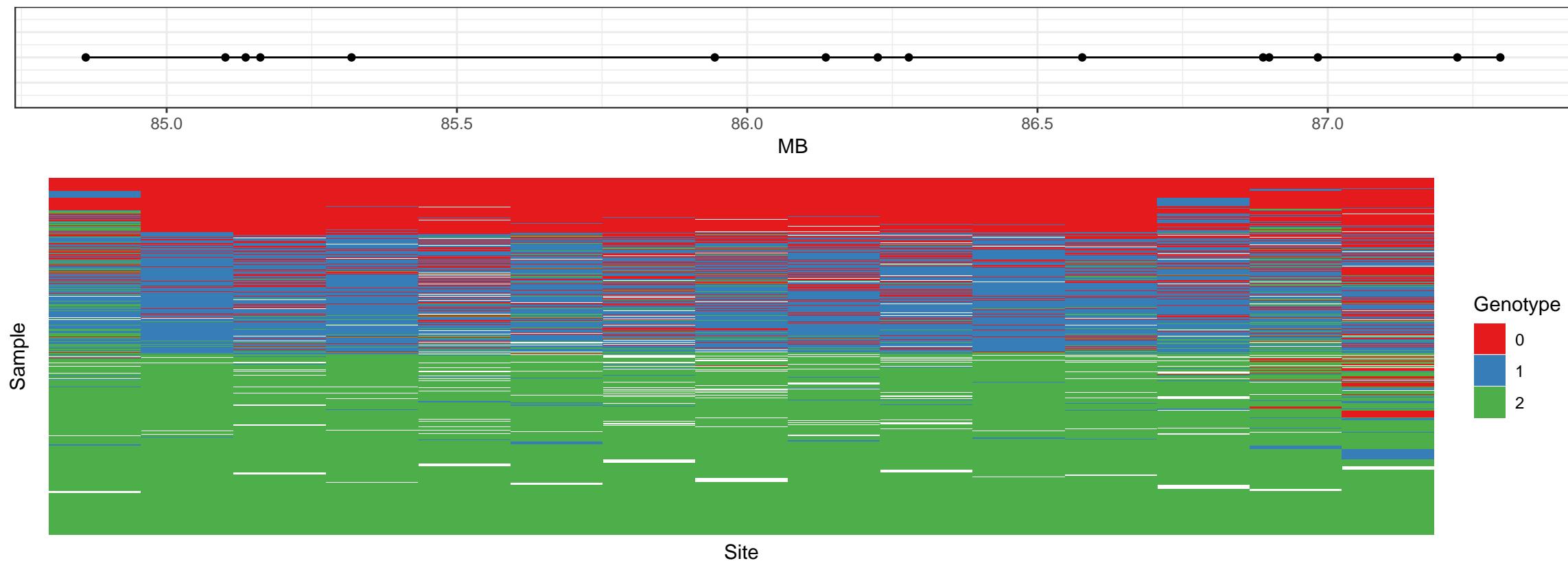


# Ha412HOChr11:84.861–87.297MB Size=2.436MB

1908\_0.47 BetweenSS = 0.976665169646761

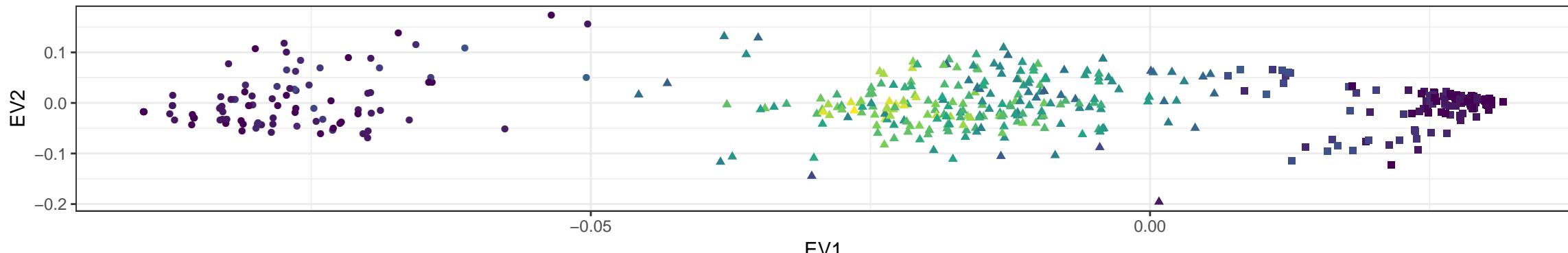


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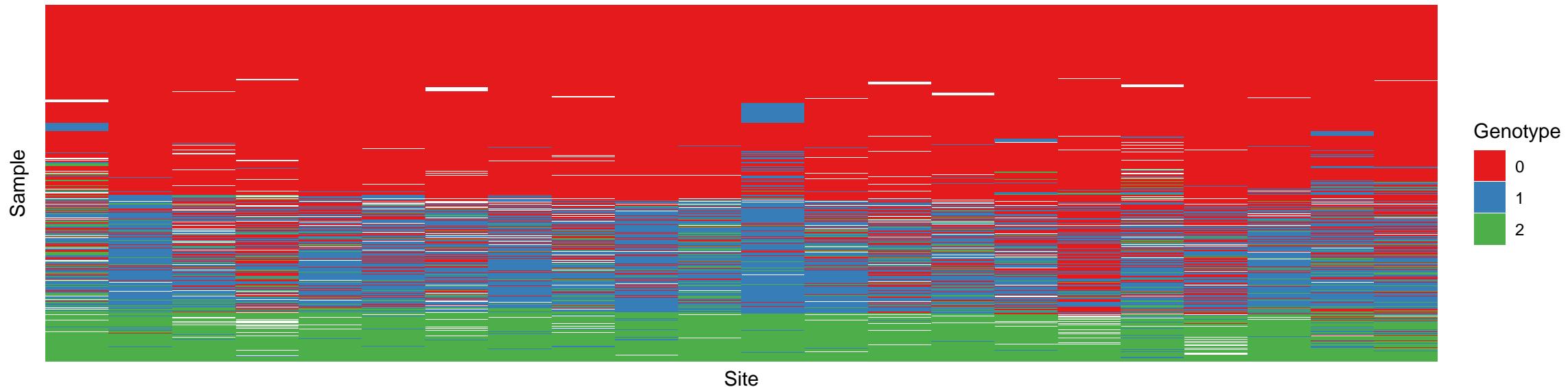
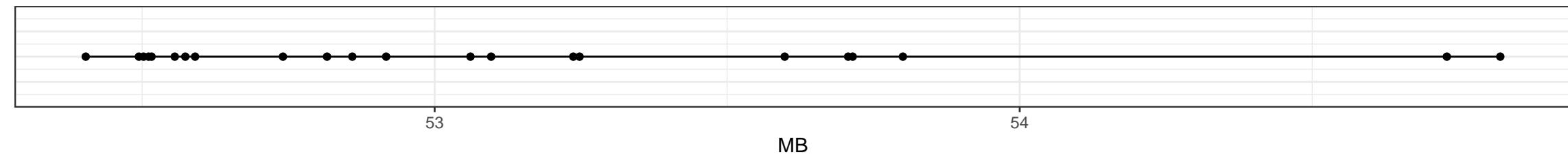


# Ha412HOChr03:52.404–54.821MB Size=2.418MB

1402\_0.52 BetweenSS = 0.965978219401303

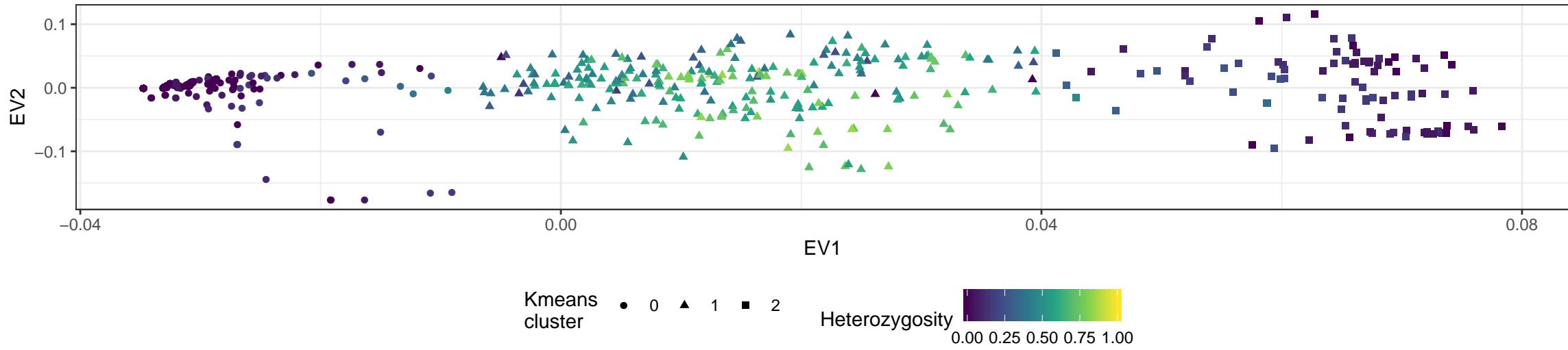


Ha412HOChr03

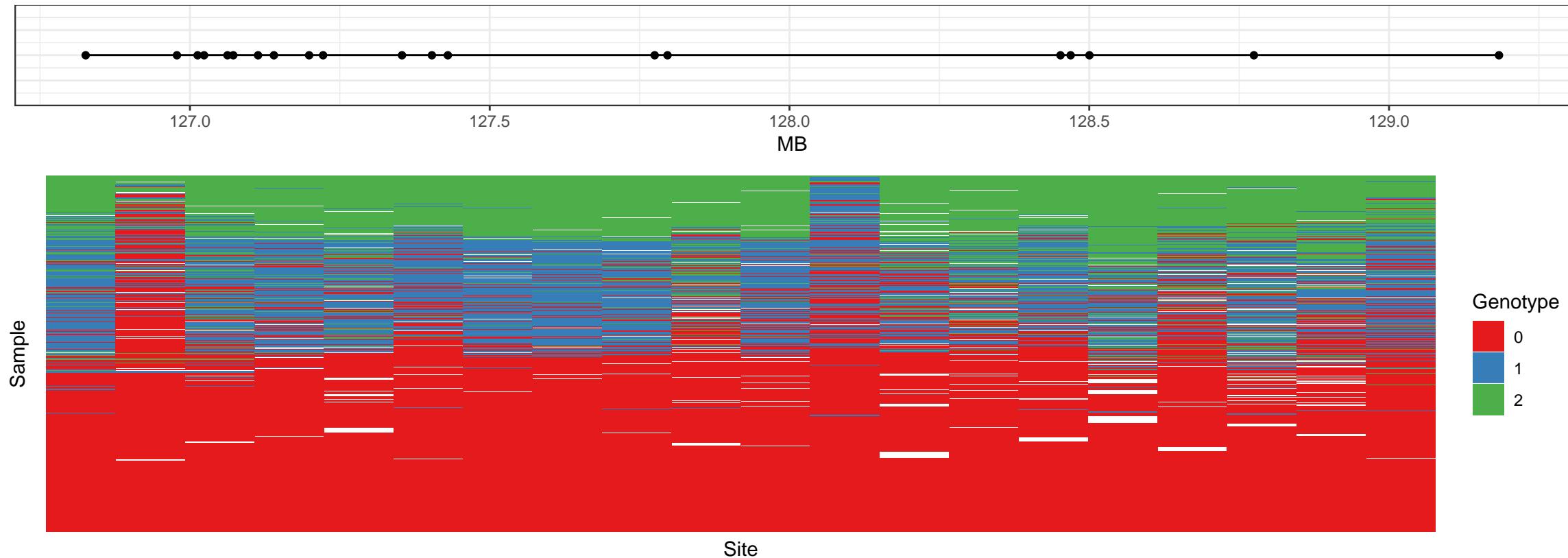


# Ha412HOChr11:126.826–129.183MB Size=2.357MB

2432\_0.35 BetweenSS = 0.955114120365881

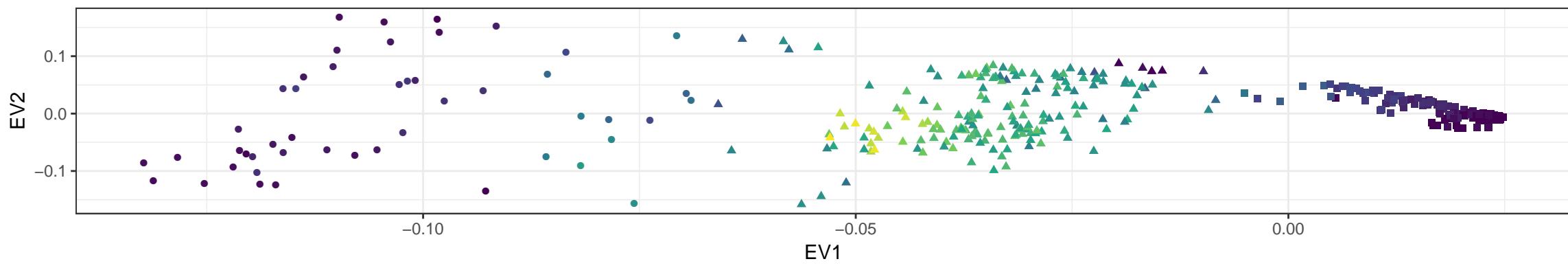


Ha412HOChr11

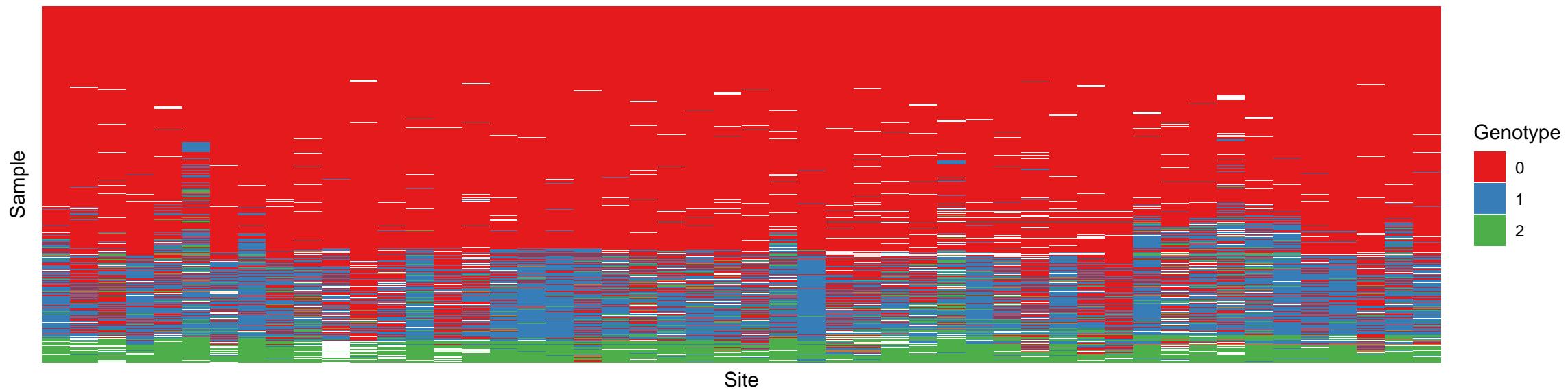
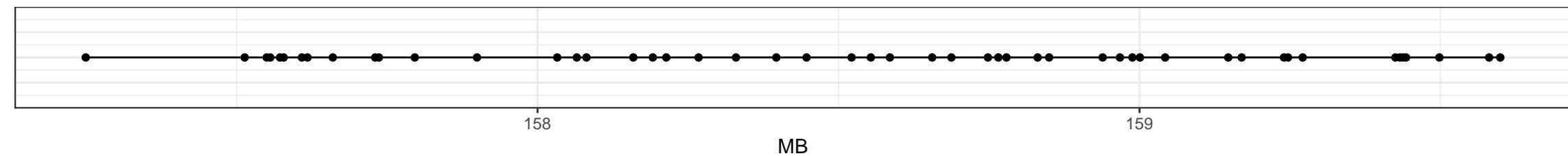


# Ha412HOChr15:157.25–159.599MB Size=2.35MB

1524\_0.47 BetweenSS = 0.952997975251361

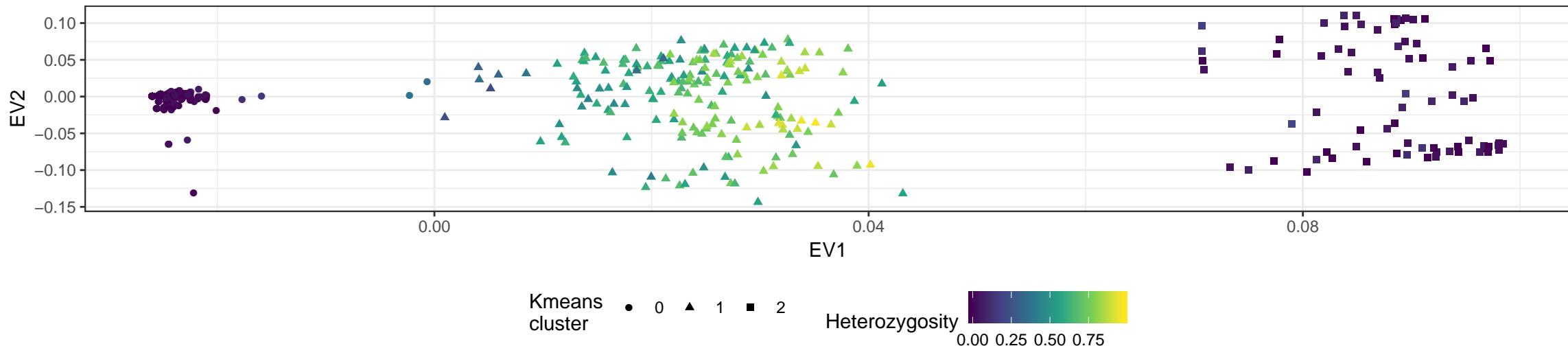


Ha412HOChr15

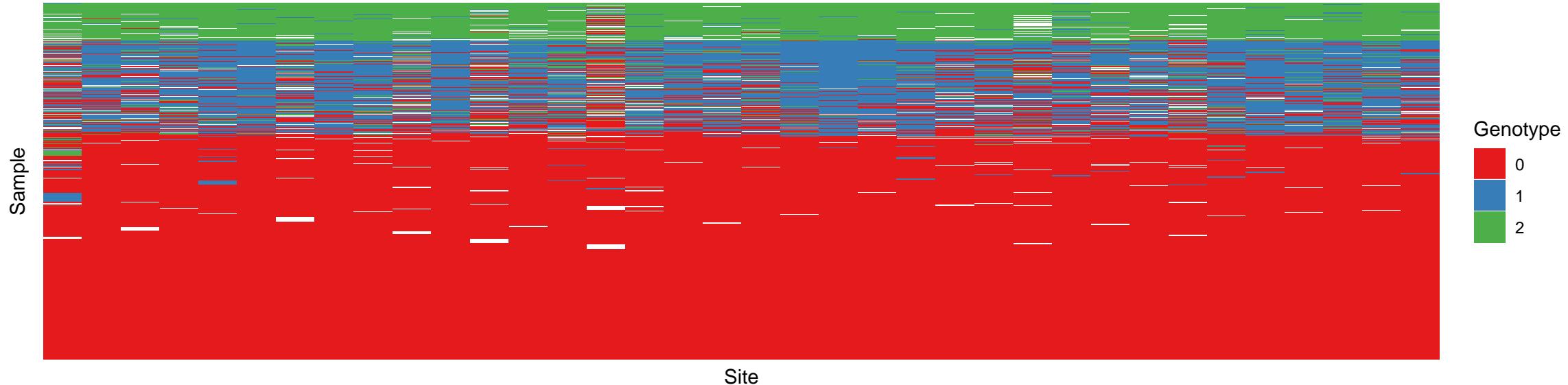
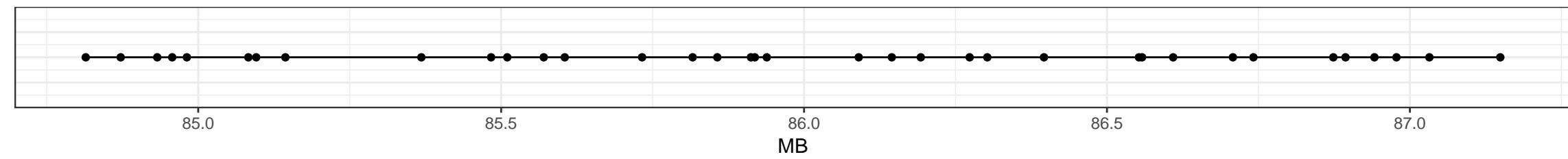


# Ha412HOChr11:84.814–87.149MB Size=2.335MB

1945\_0.46 BetweenSS = 0.983355602077884

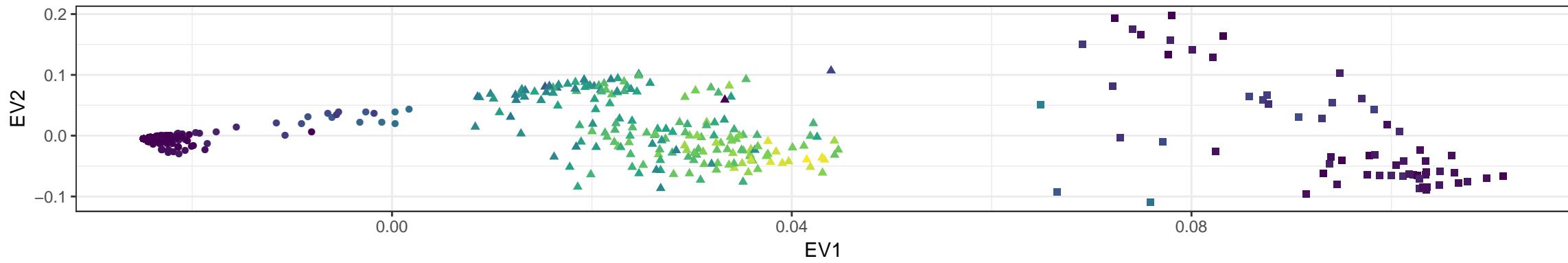


Ha412HOChr11

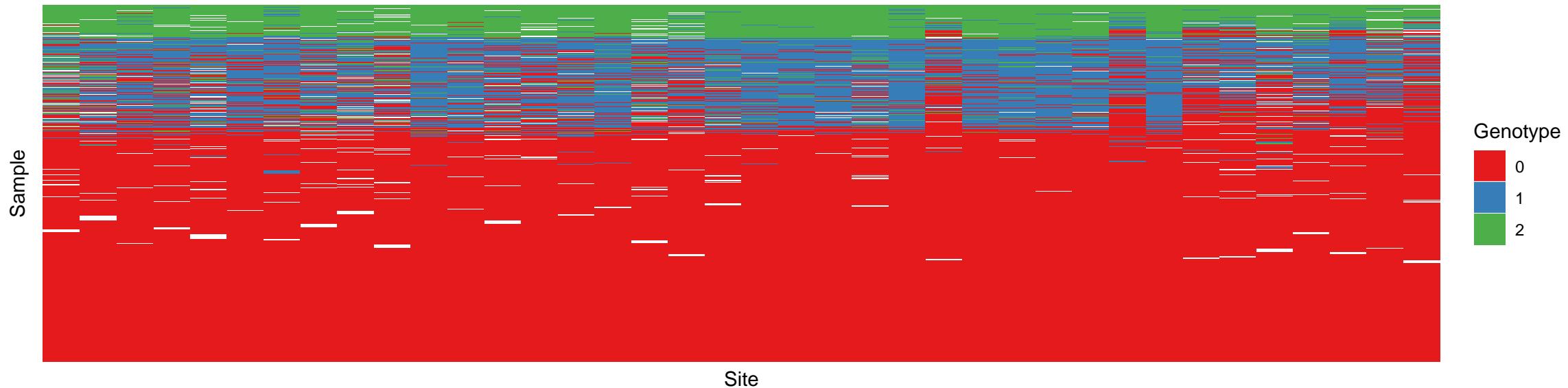
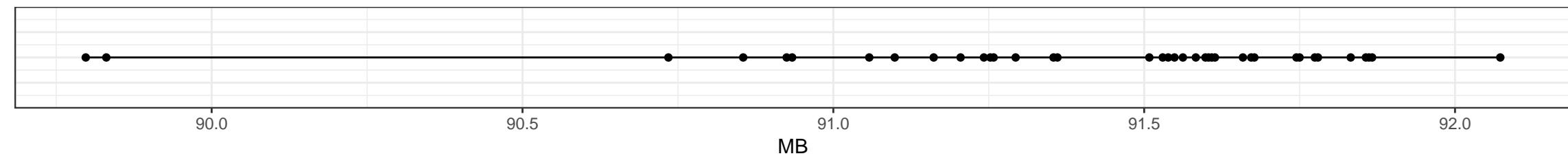


# Ha412HOChr09:89.797–92.073MB Size=2.275MB

727\_0.63 BetweenSS = 0.969709527709133

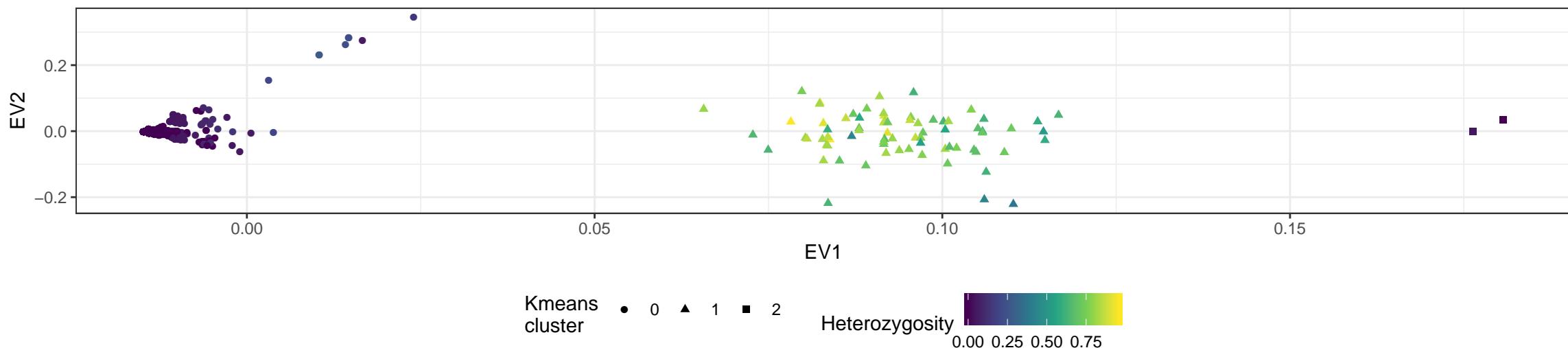


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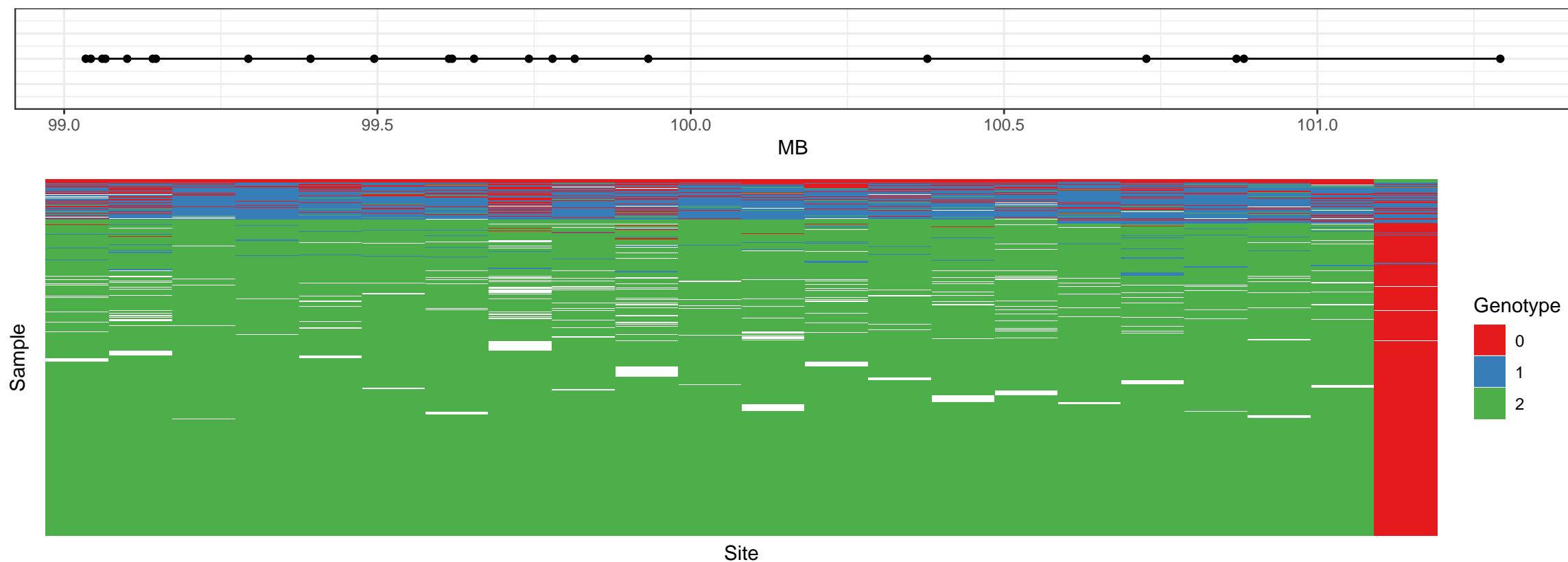


# Ha412HOChr06:99.034–101.292MB Size=2.257MB

1355\_0.61 BetweenSS = 0.98186471881846

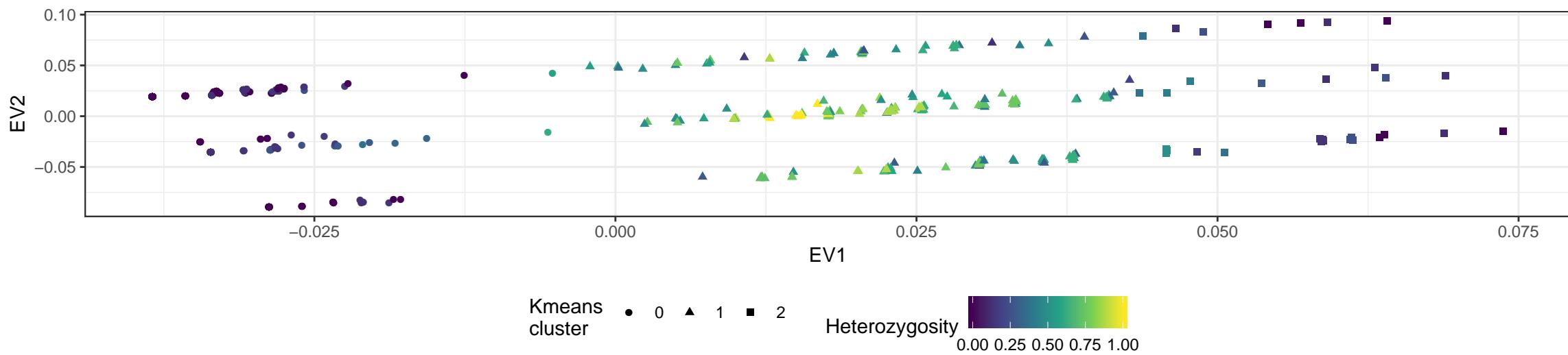


Ha412HOChr06

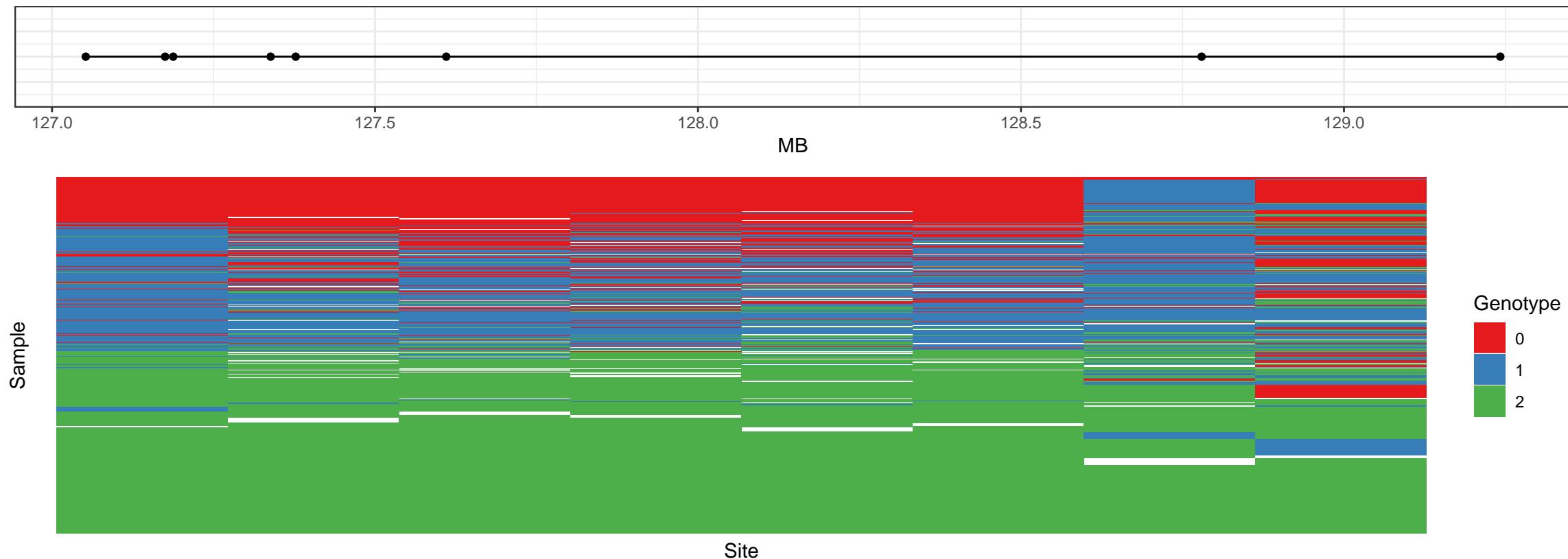


# Ha412HOChr11:127.052–129.242MB Size=2.19MB

2795\_0.26 BetweenSS = 0.959816931970373

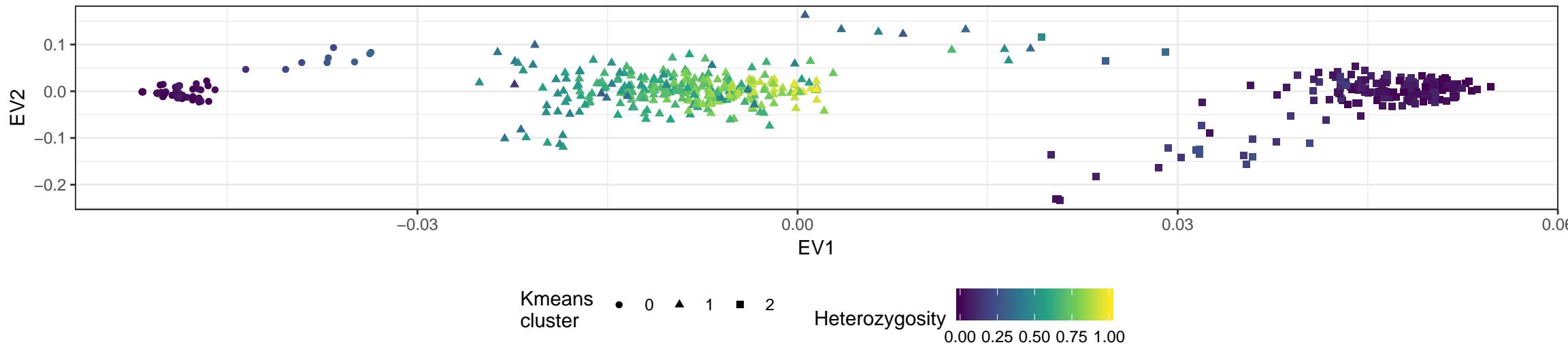


Ha412HOChr11

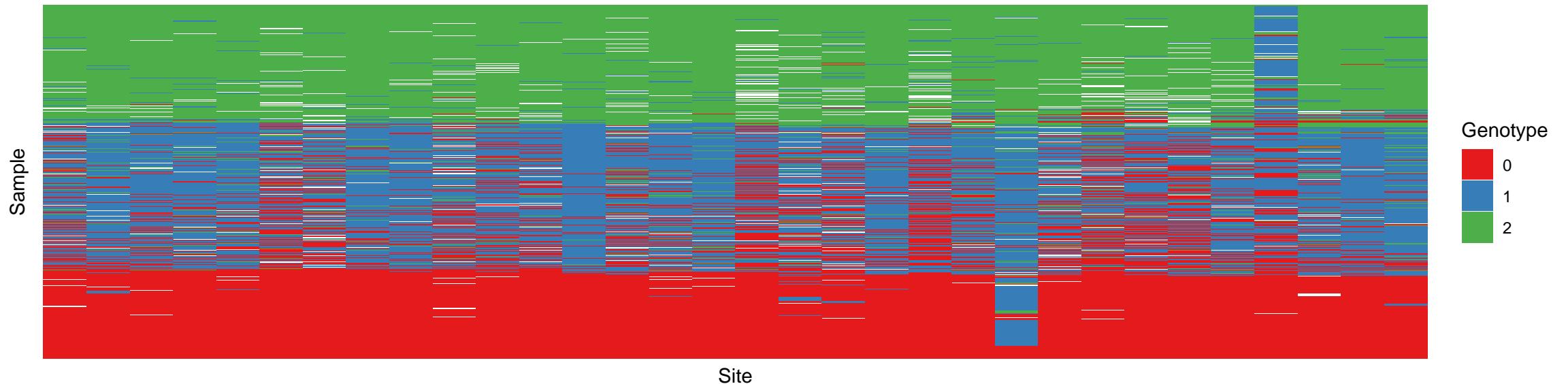
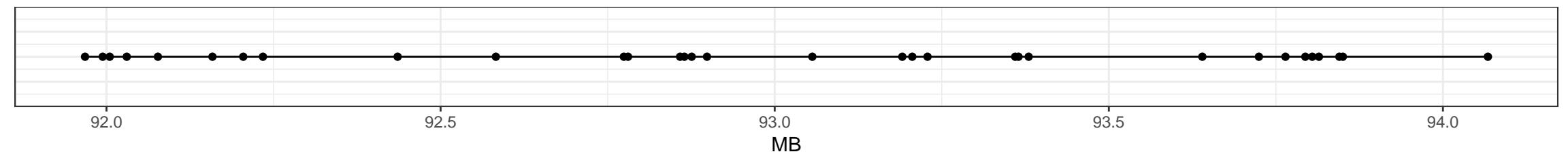


# Ha412HOChr11:91.968–94.067MB Size=2.099MB

2127\_0.43 BetweenSS = 0.973328904169438

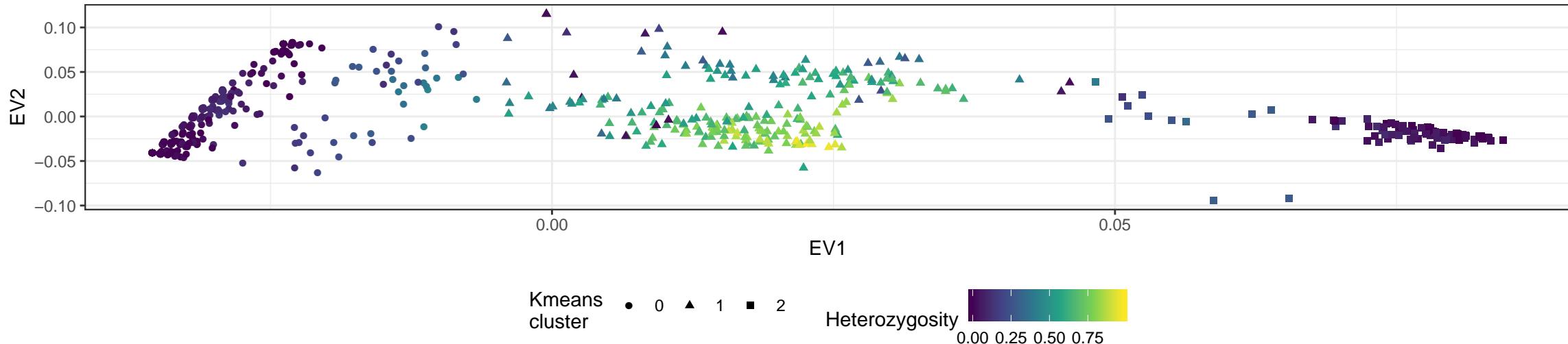


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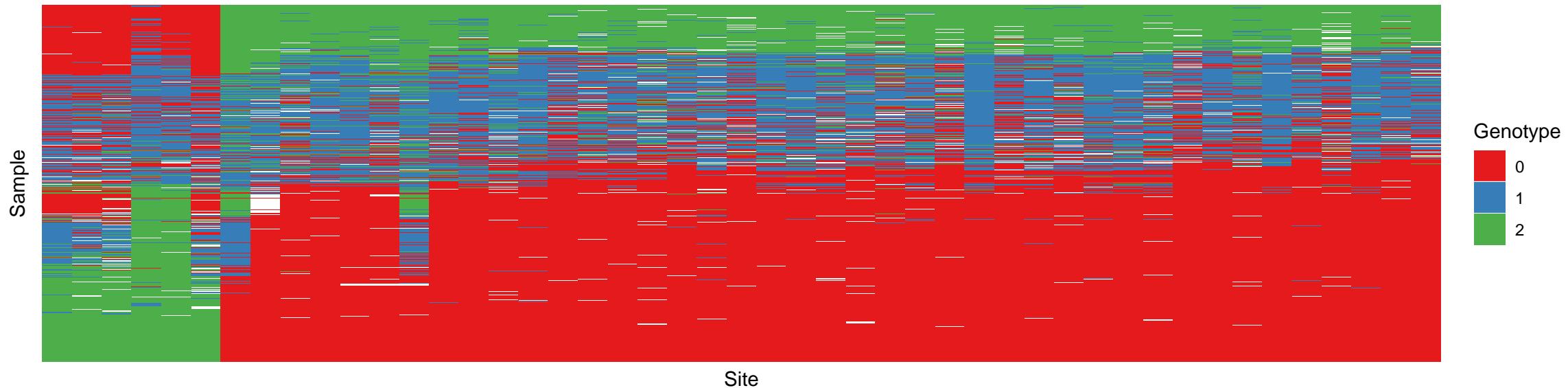
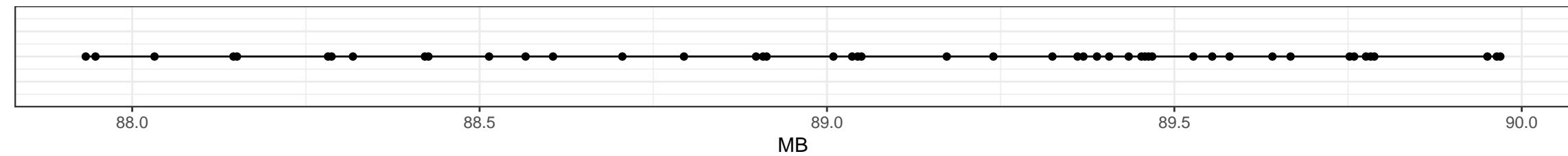


# Ha412HOChr10:87.933–89.969MB Size=2.036MB

1290\_0.63 BetweenSS = 0.958068826440727

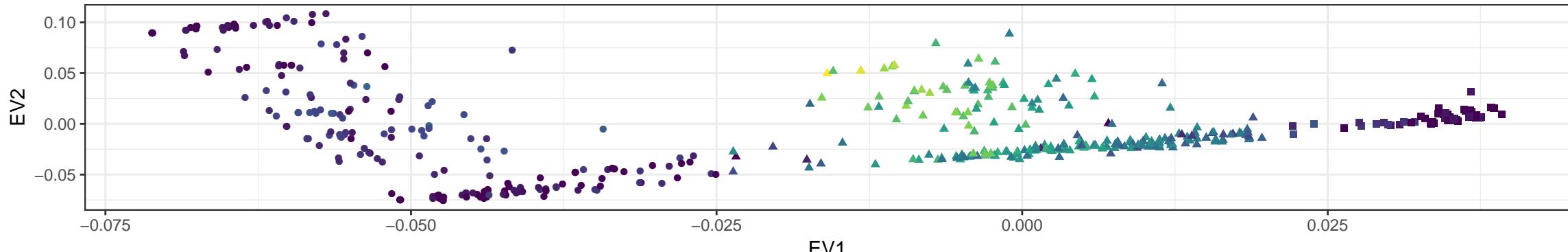


Ha412HOChr10



# Ha412HOChr12:46.323–48.343MB Size=2.02MB

2743\_0.37 BetweenSS = 0.950985154652313

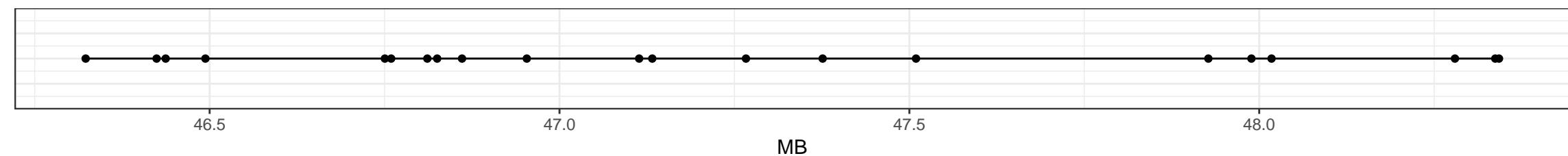


Kmeans  
cluster

• 0 ▲ 1 ■ 2

Heterozygosity  
0.00 0.25 0.50 0.75 1.00

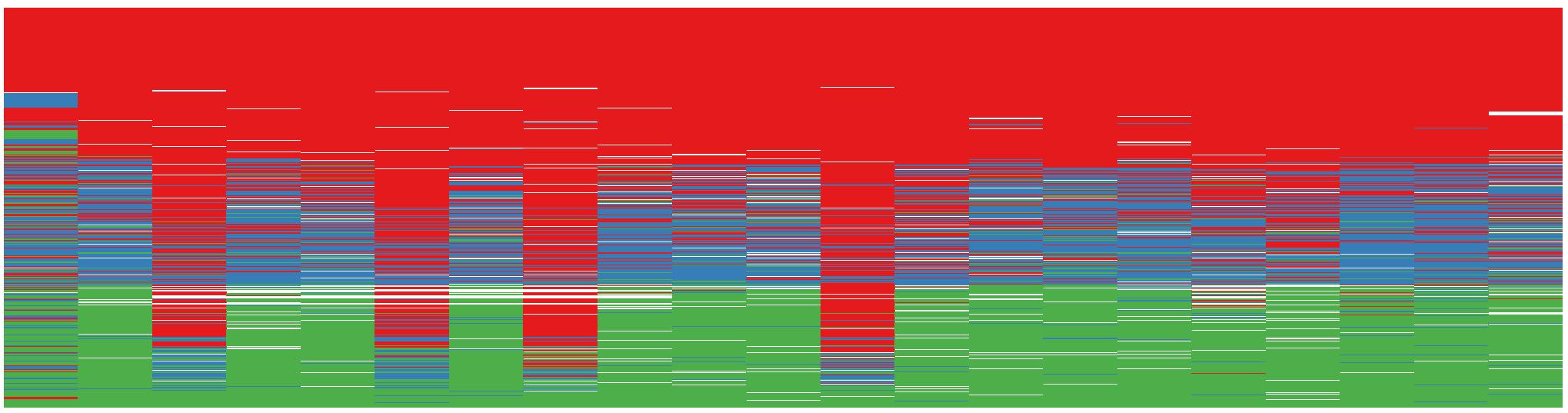
Ha412HOChr12



MB

Sample

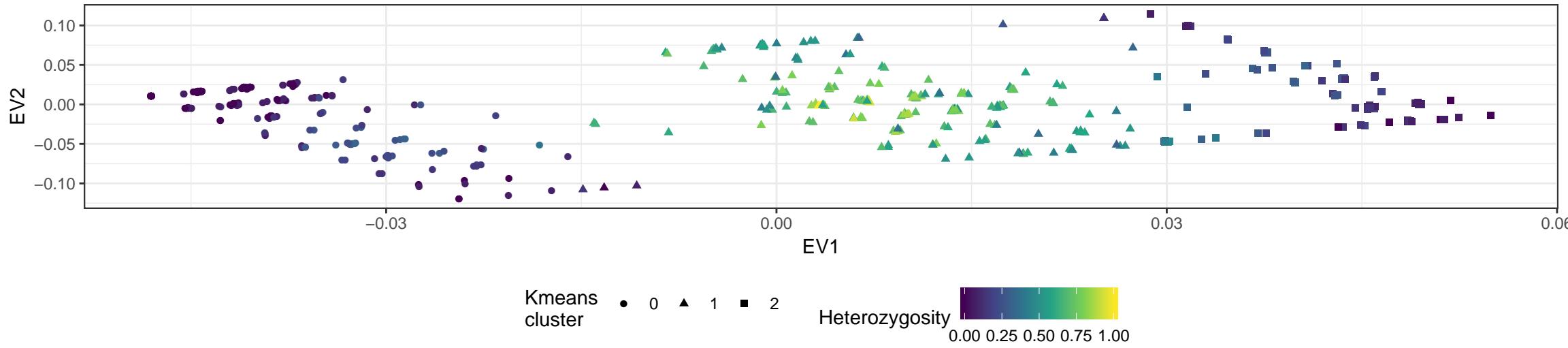
Genotype  
0  
1  
2



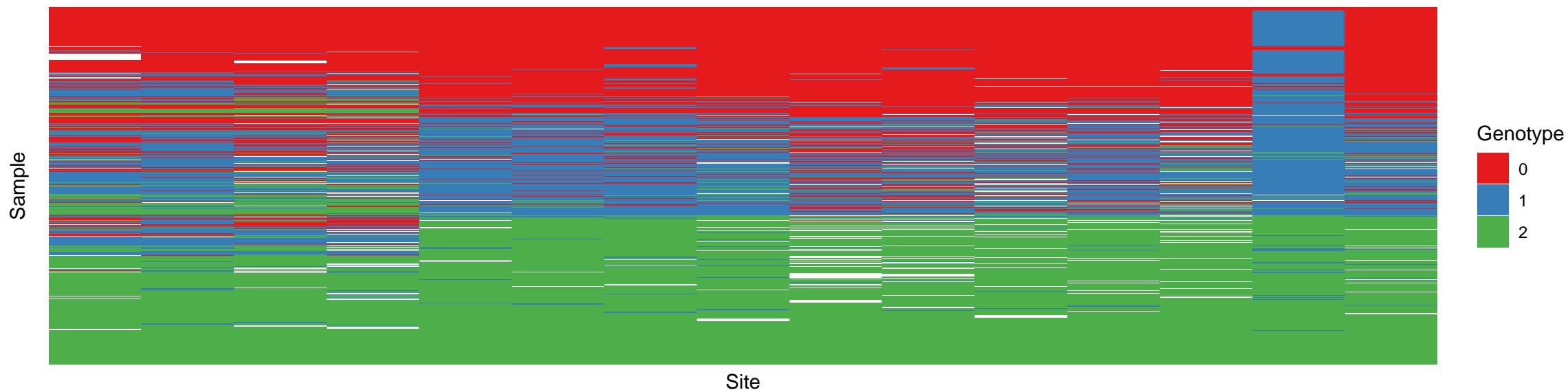
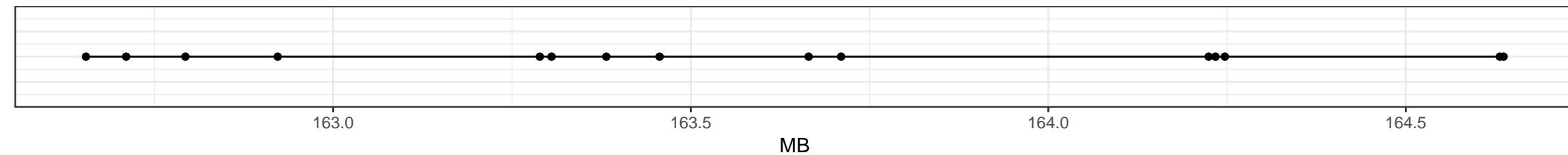
Site

# Ha412HOChr12:162.654–164.637MB Size=1.982MB

2376\_0.45 BetweenSS = 0.955546764317986

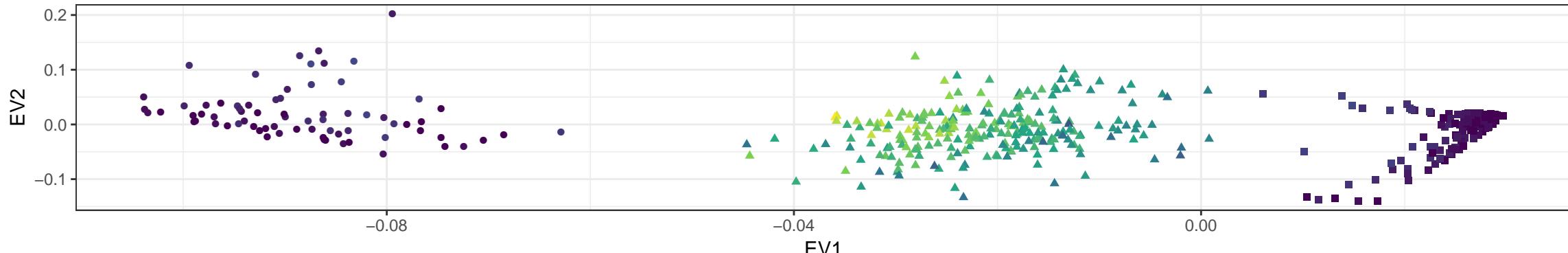


Ha412HOChr12



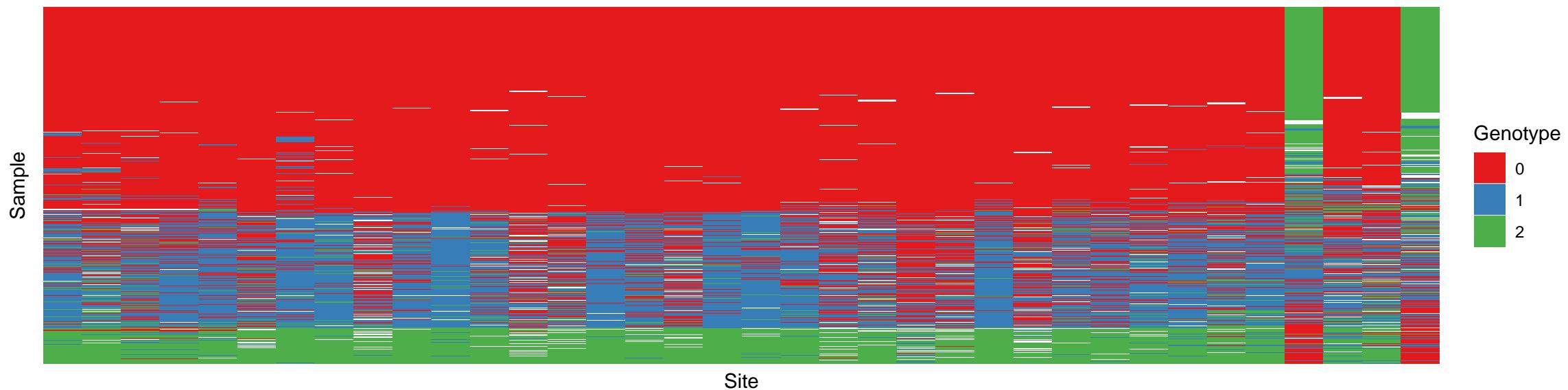
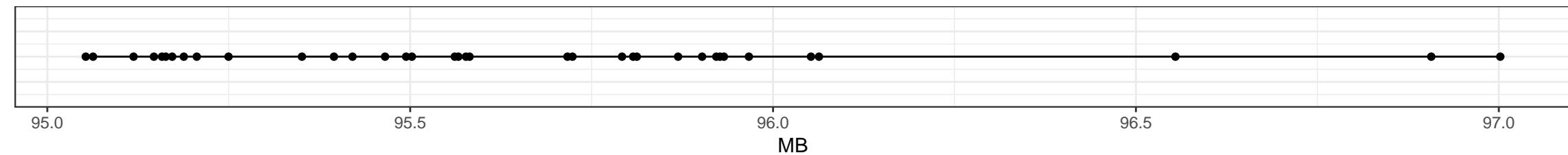
# Ha412HOChr09:95.053–97.002MB Size=1.949MB

1191\_0.53 BetweenSS = 0.97286267361357



Kmeans cluster • 0 ▲ 1 ■ 2 Heterozygosity 0.00 0.25 0.50 0.75

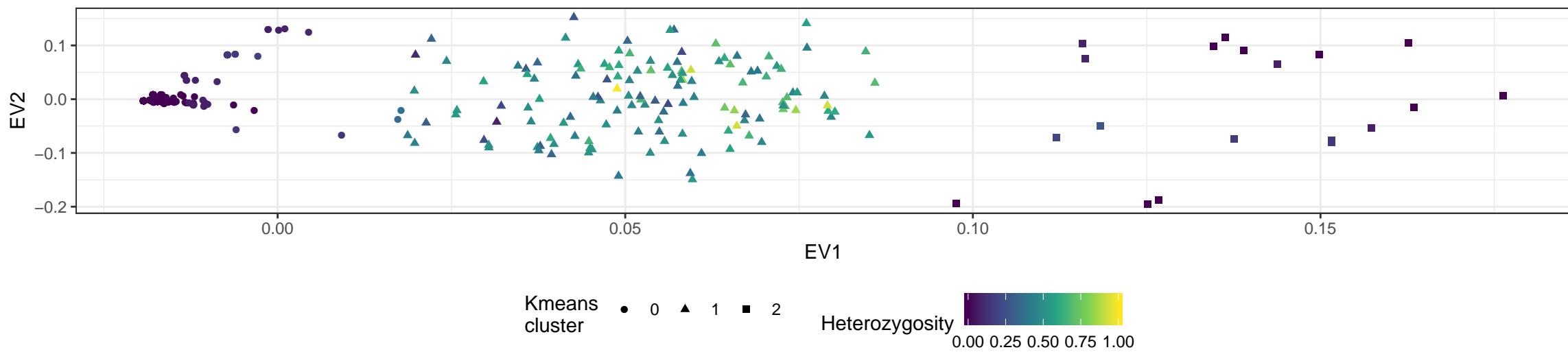
Ha412HOChr09



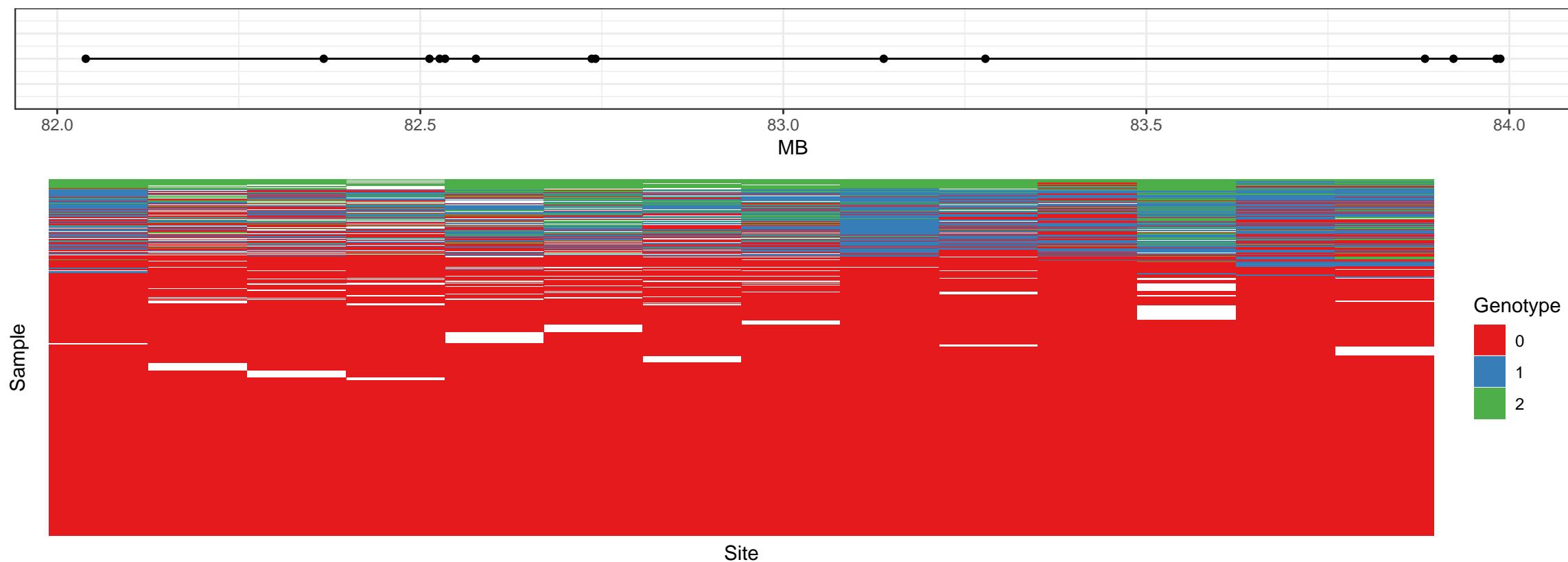
Genotype  
0  
1  
2

# Ha412HOChr17:82.039–83.987MB Size=1.948MB

2334\_0.43 BetweenSS = 0.950027130826353

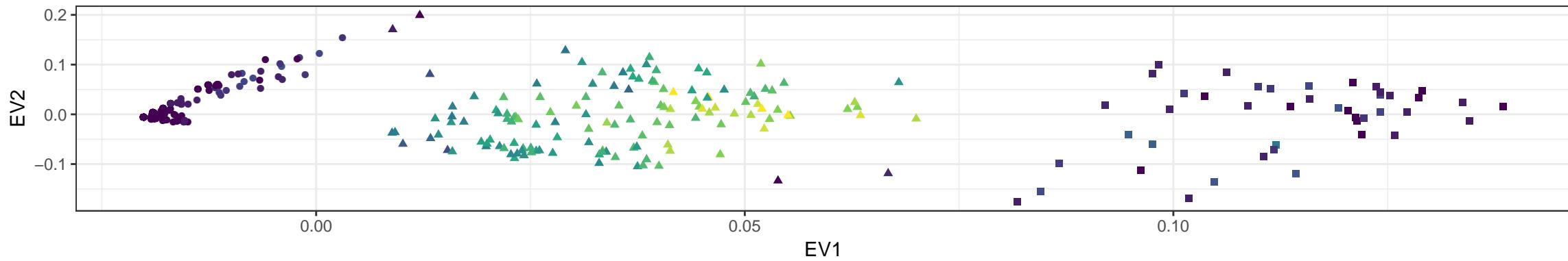


Ha412HOChr17

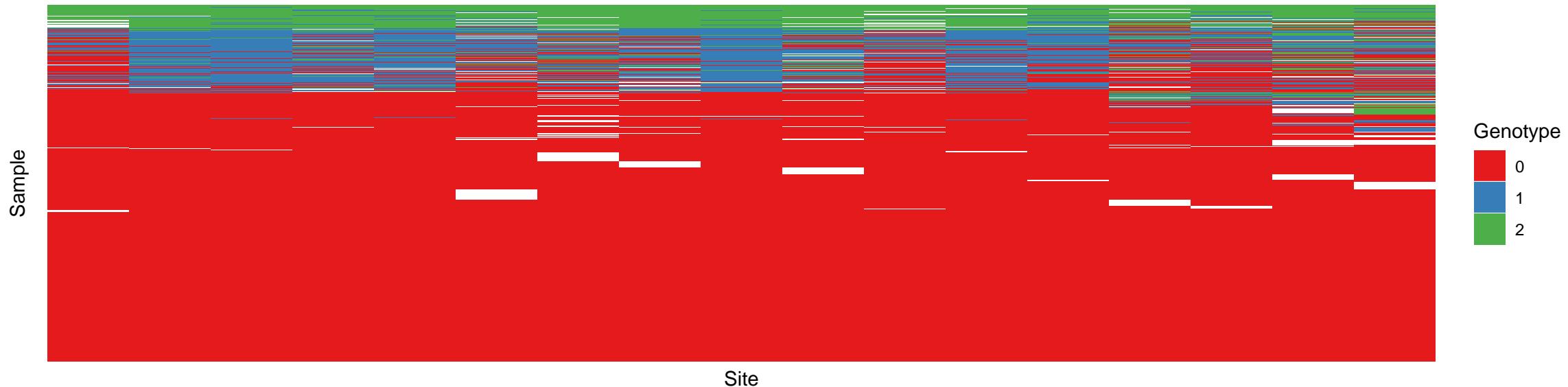


# Ha412HOChr06:122.78–124.666MB Size=1.886MB

1745\_0.53 BetweenSS = 0.958930107275727

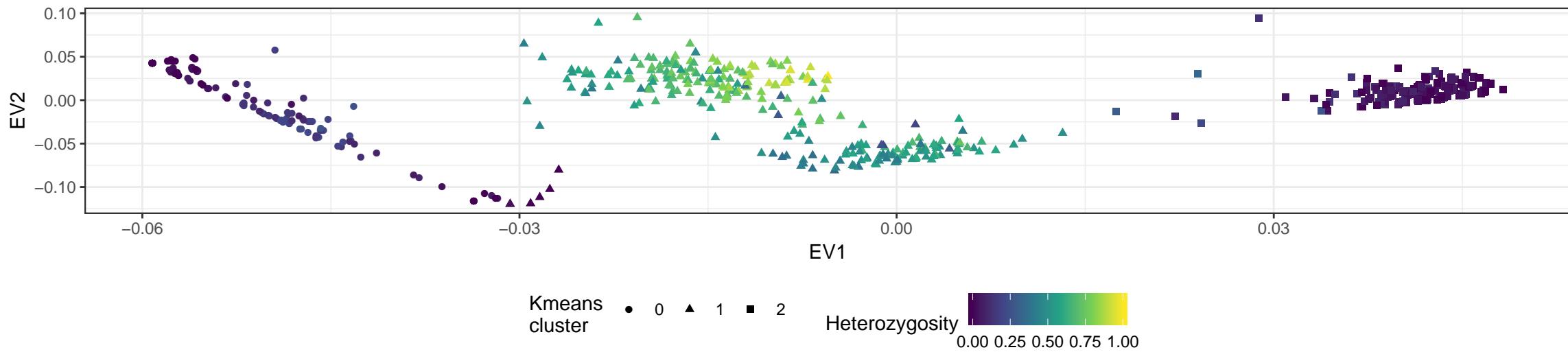


Ha412HOChr06

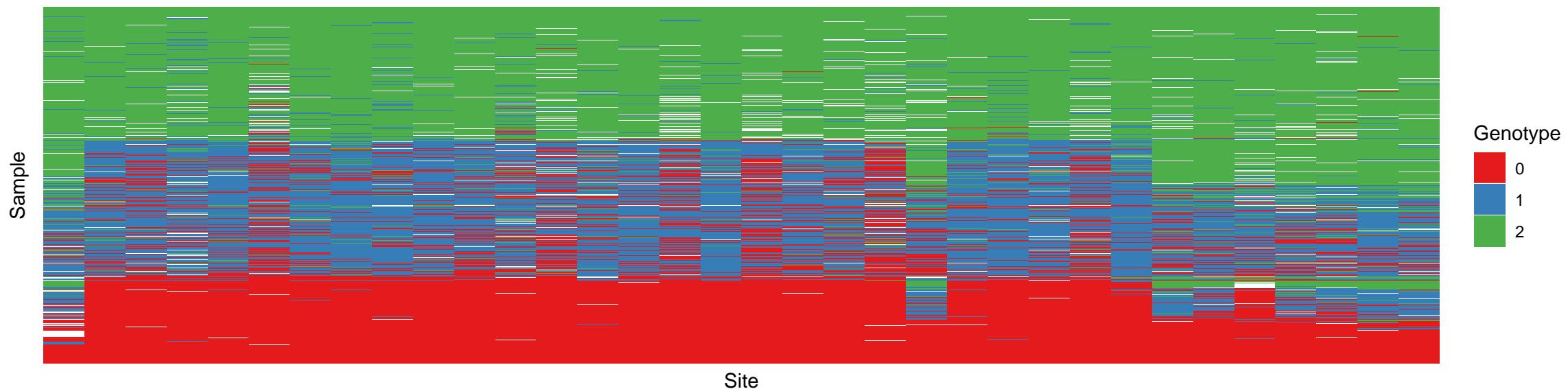
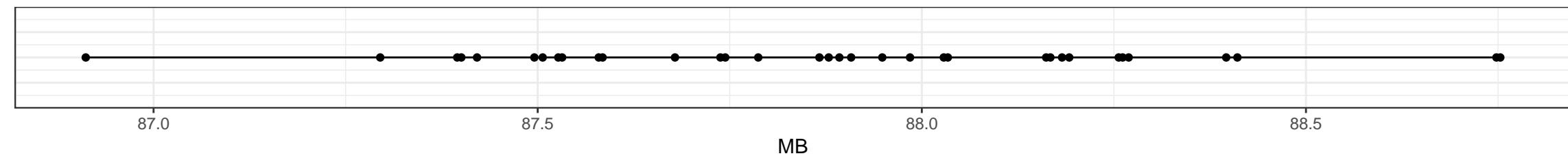


# Ha412HOChr17:86.912–88.753MB Size=1.841MB

814\_0.66 BetweenSS = 0.961305687318868

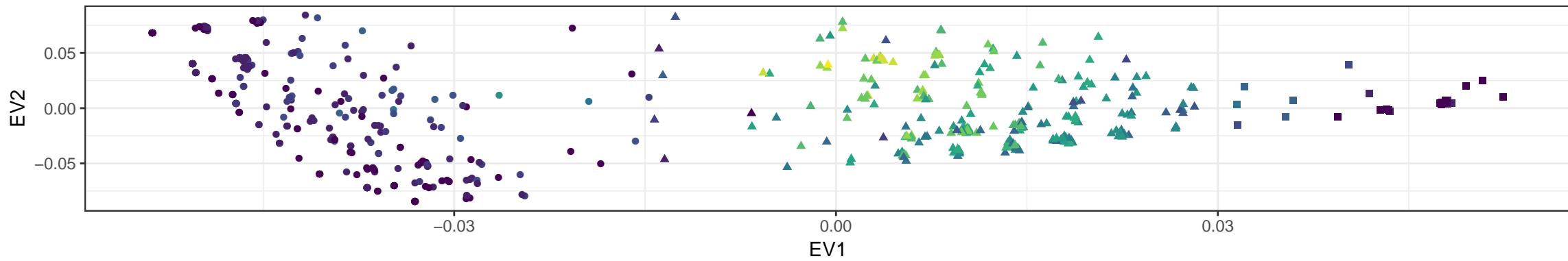


Ha412HOChr17



# Ha412HOChr14:18.268–20.103MB Size=1.835MB

2011\_0.33 BetweenSS = 0.960618519877487

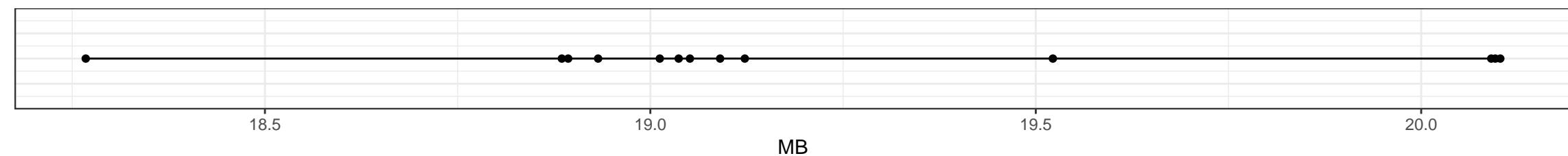


Kmeans  
cluster

• 0 ▲ 1 ■ 2

Heterozygosity  
0.00 0.25 0.50 0.75 1.00

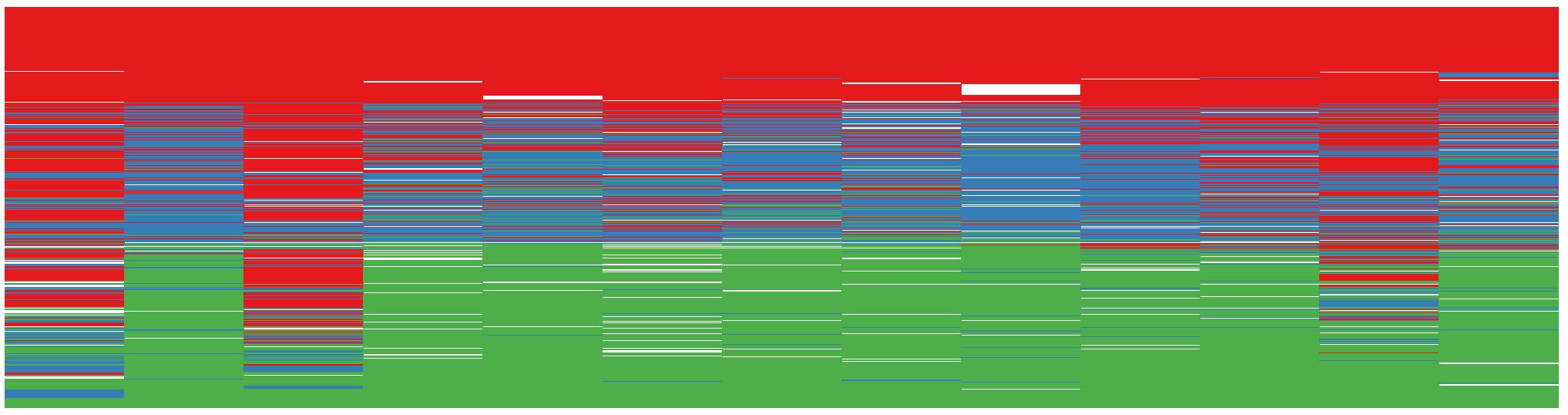
Ha412HOChr14



MB

Sample

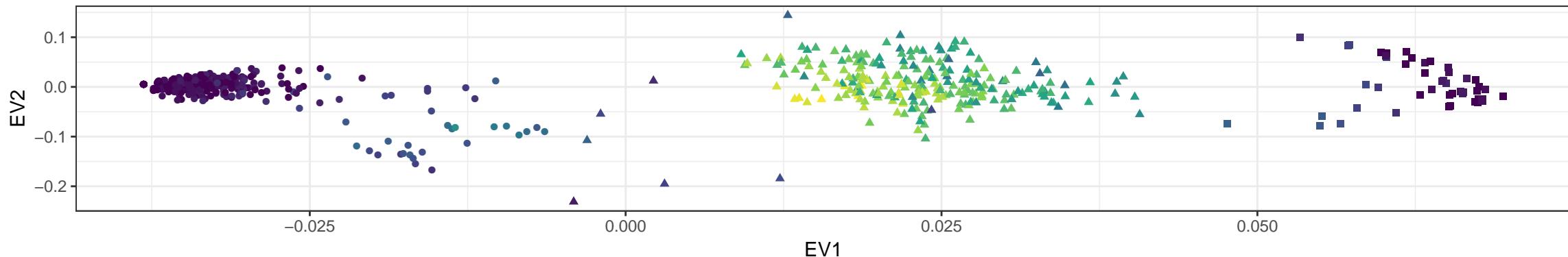
Genotype  
0  
1  
2



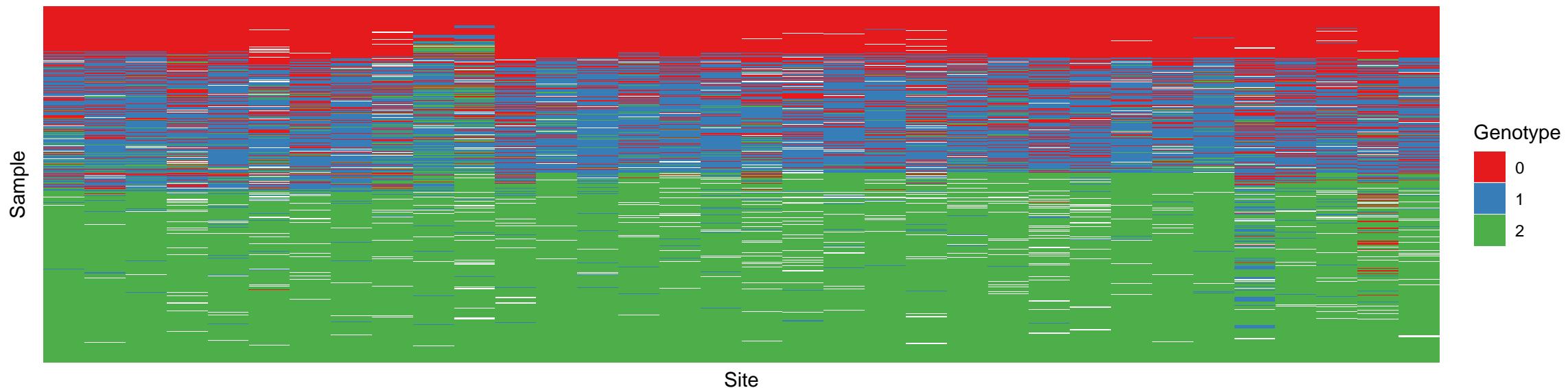
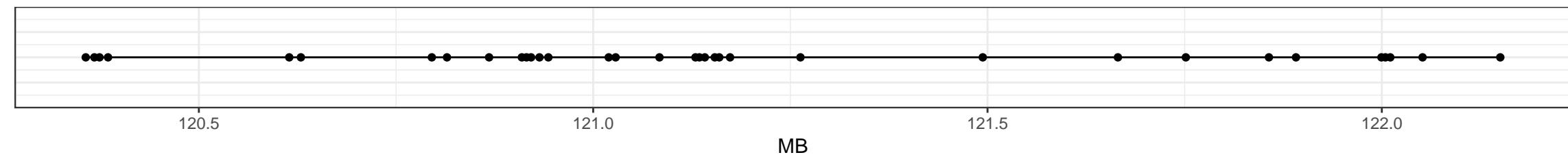
Site

# Ha412HOChr06:120.357–122.15MB Size=1.794MB

1724\_0.54 BetweenSS = 0.971957924980109

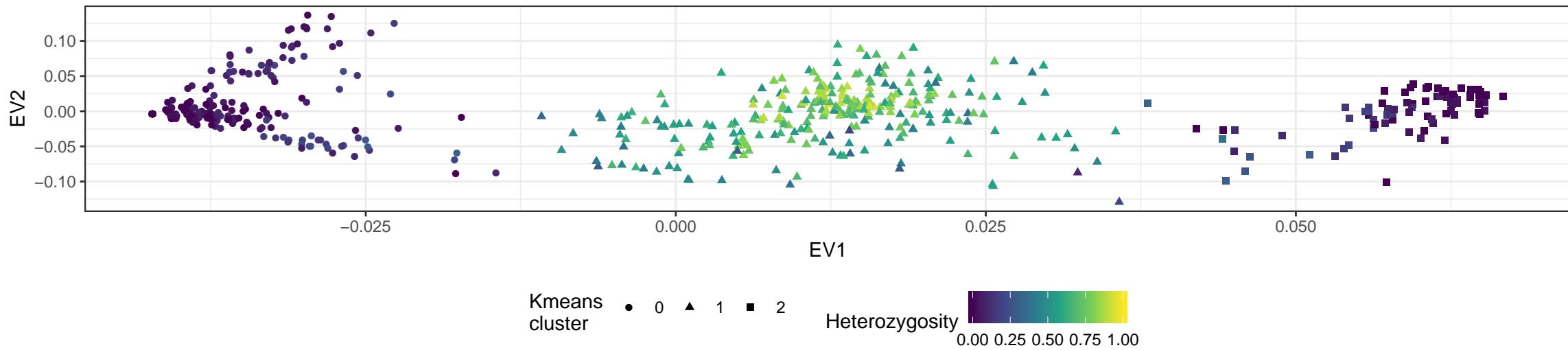


Ha412HOChr06

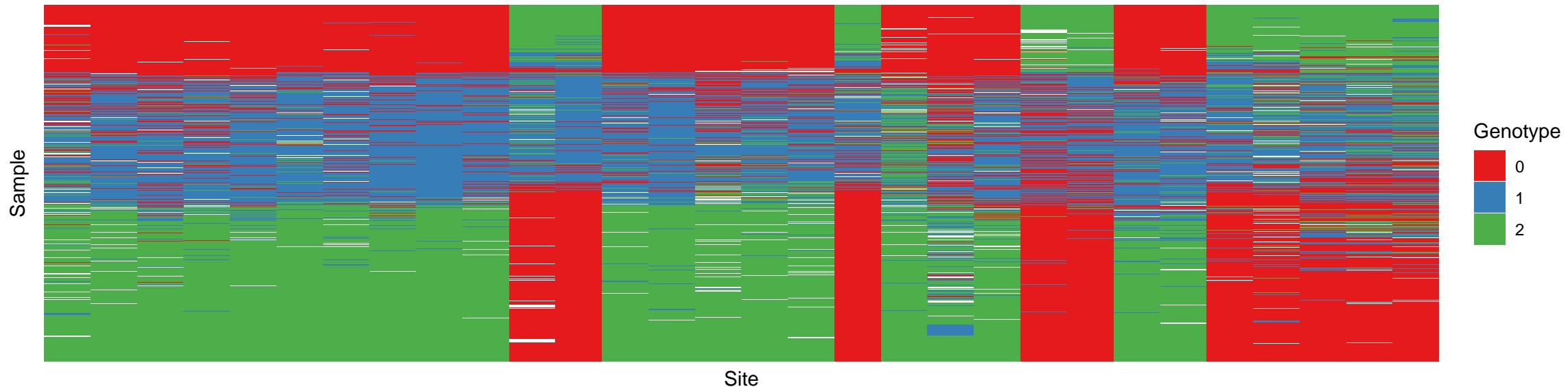
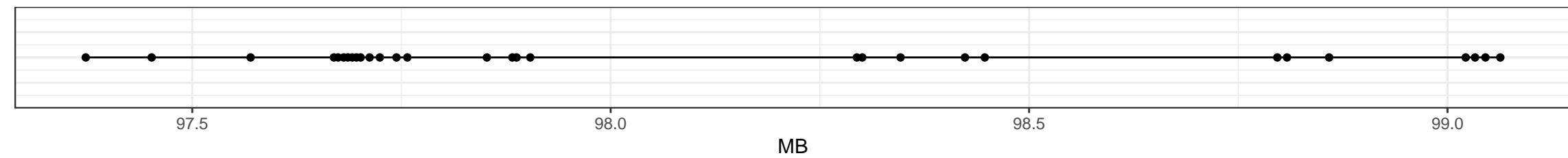


# Ha412HOChr09:97.373–99.063MB Size=1.69MB

1276\_0.51 BetweenSS = 0.965521967045161

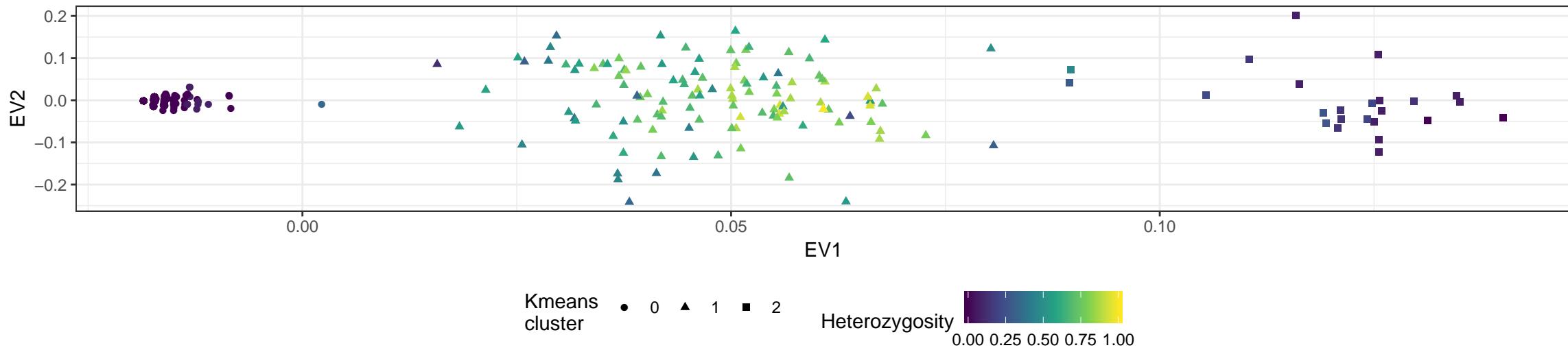


Ha412HOChr09

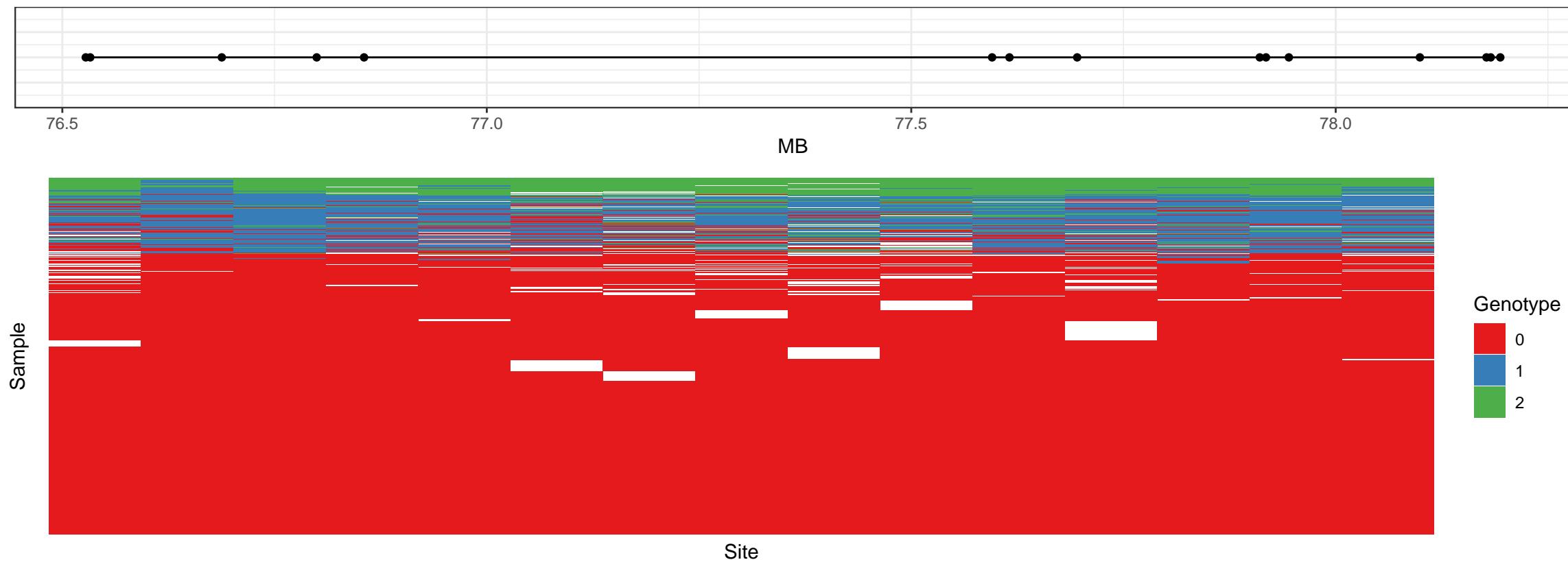


# Ha412HOChr10:76.528–78.194MB Size=1.666MB

1044\_0.67 BetweenSS = 0.97426820066017

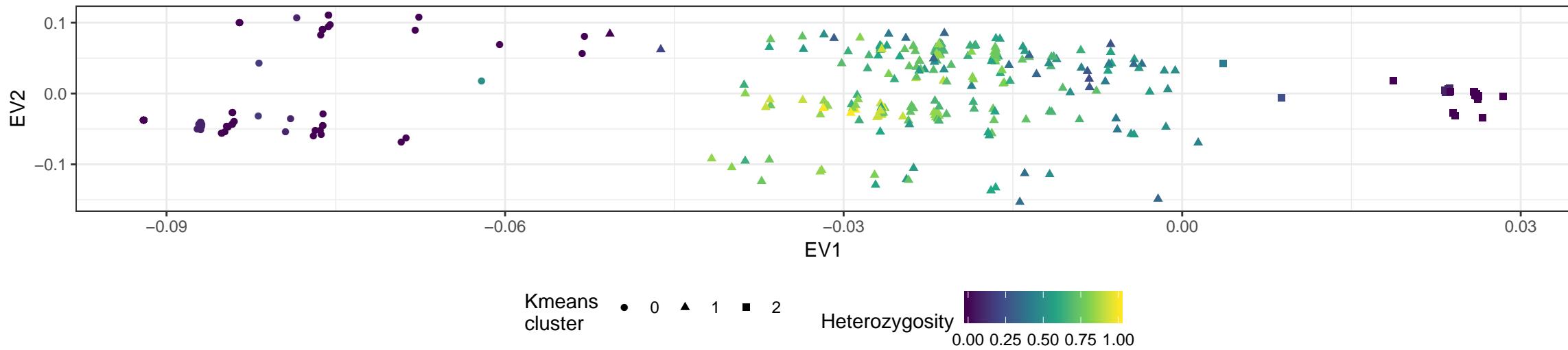


Ha412HOChr10

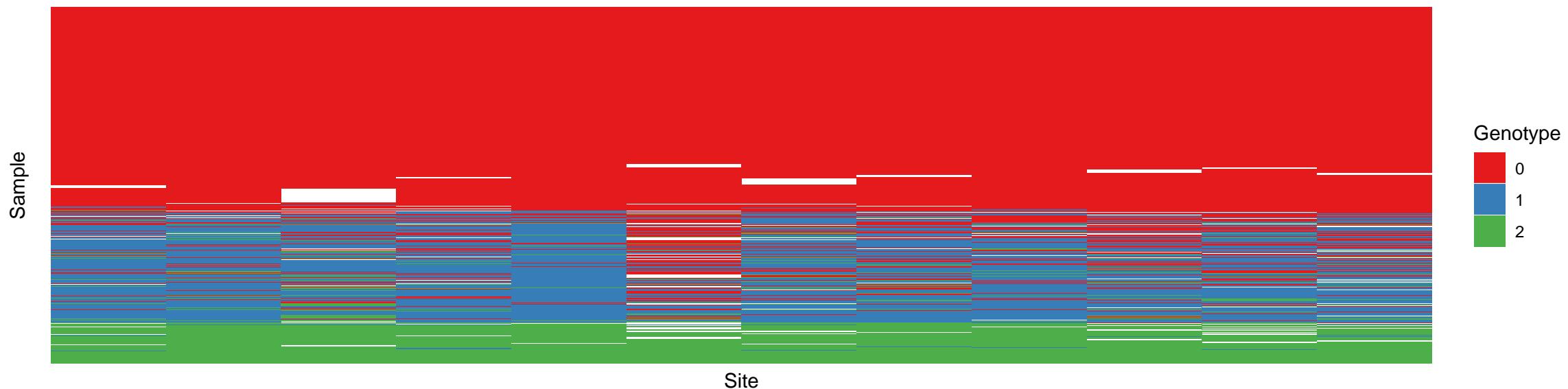
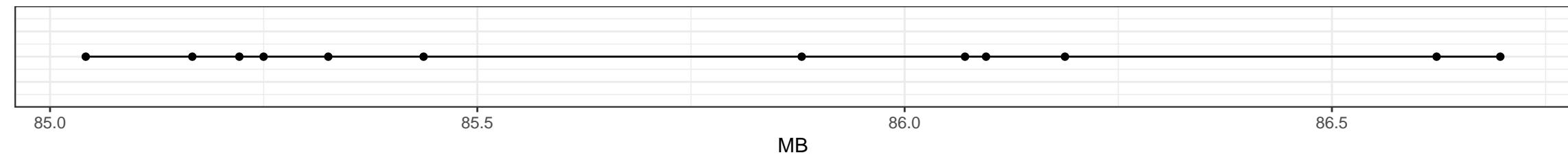


# Ha412HOChr11:85.042–86.697MB Size=1.655MB

1053\_0.63 BetweenSS = 0.973295798968274

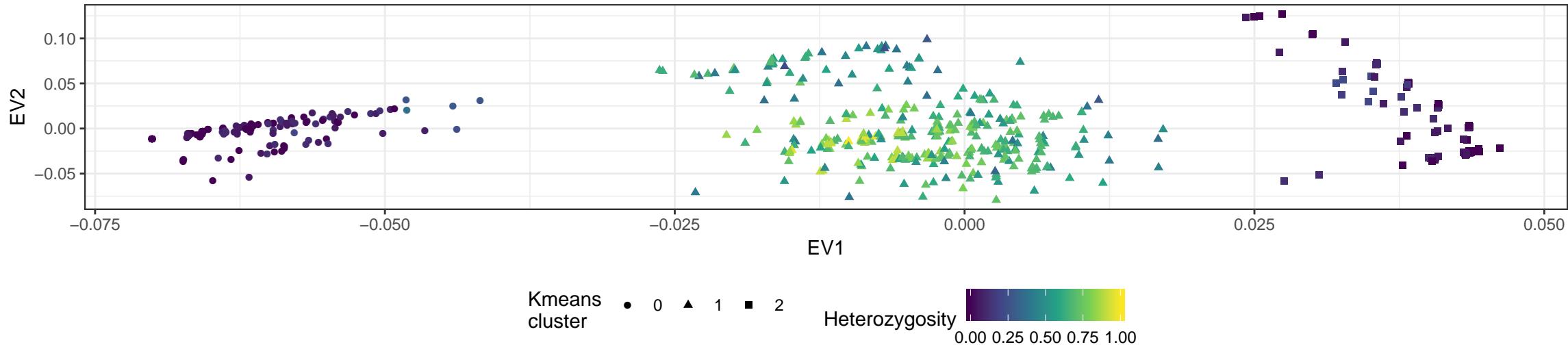


Ha412HOChr11

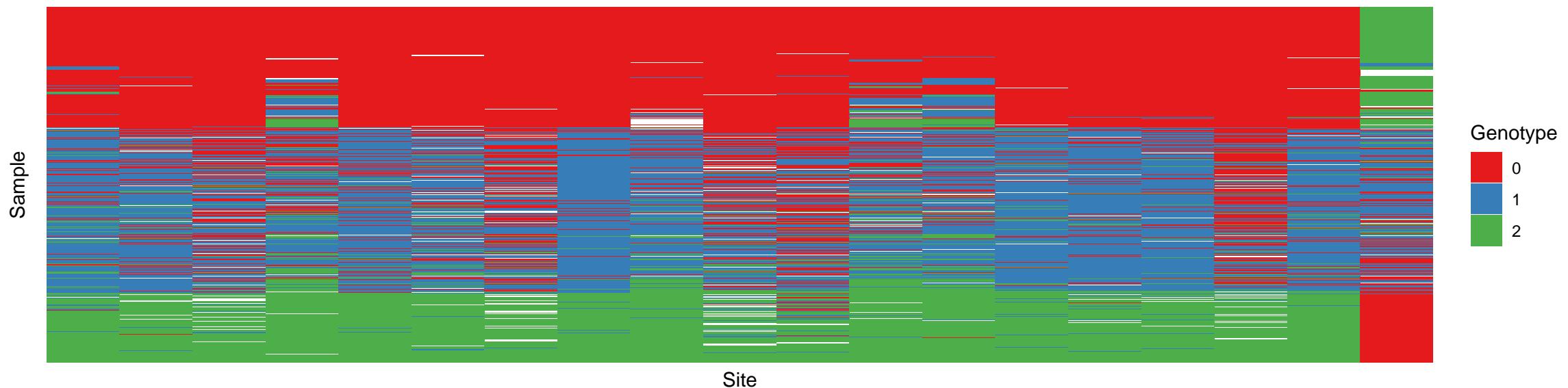
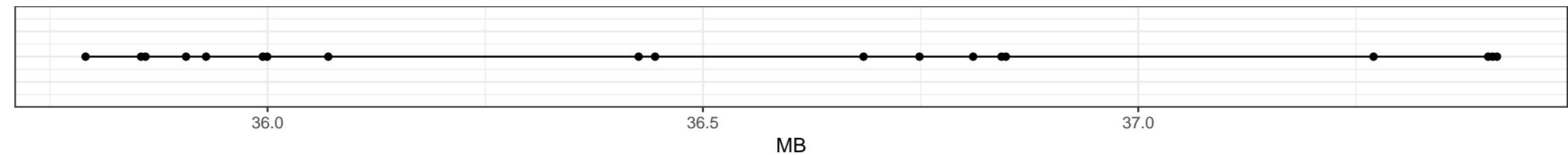


# Ha412HOChr07:35.791–37.412MB Size=1.621MB

1377\_0.54 BetweenSS = 0.965542005705137

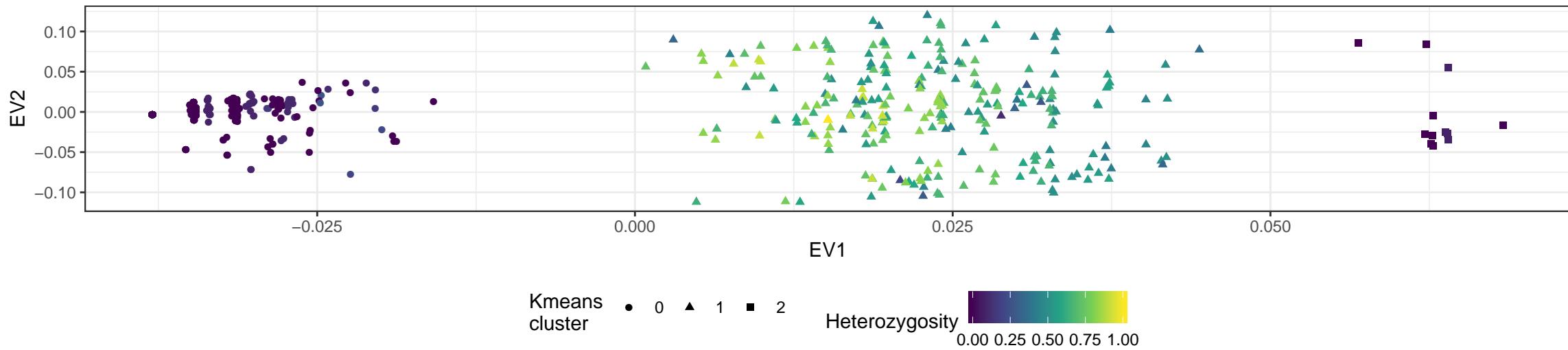


Ha412HOChr07

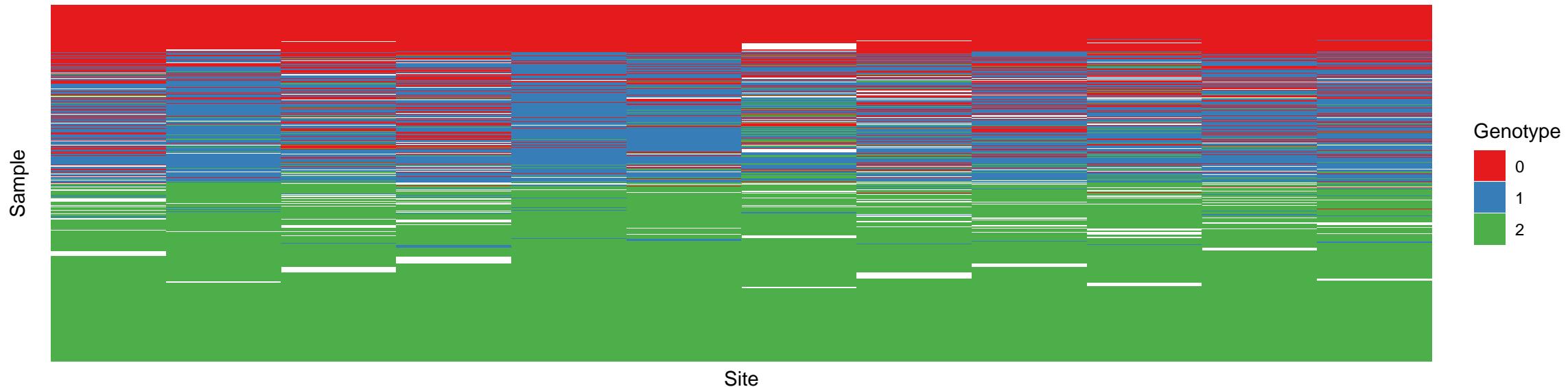


# Ha412HOChr08:153.983–155.583MB Size=1.599MB

557\_0.68 BetweenSS = 0.97386104055473

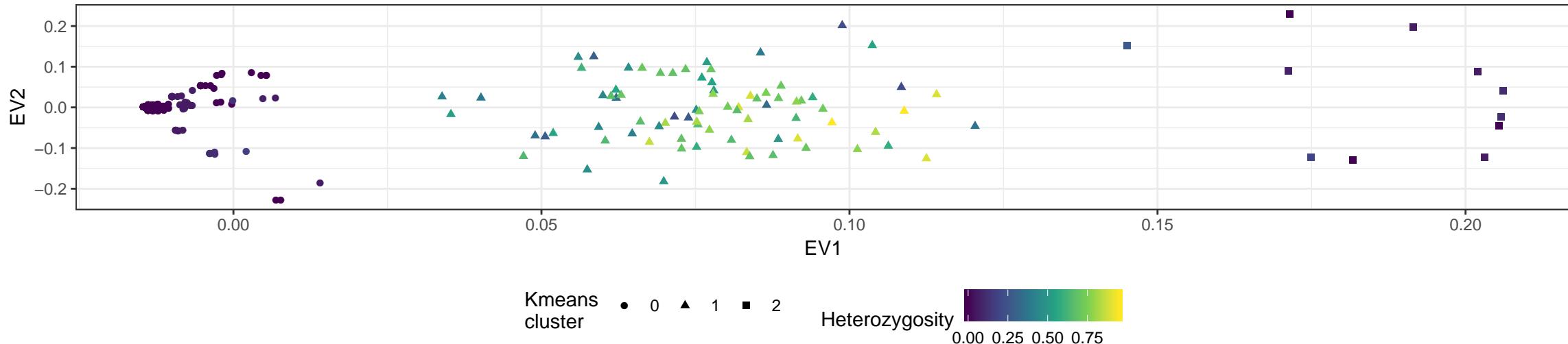


Ha412HOChr08

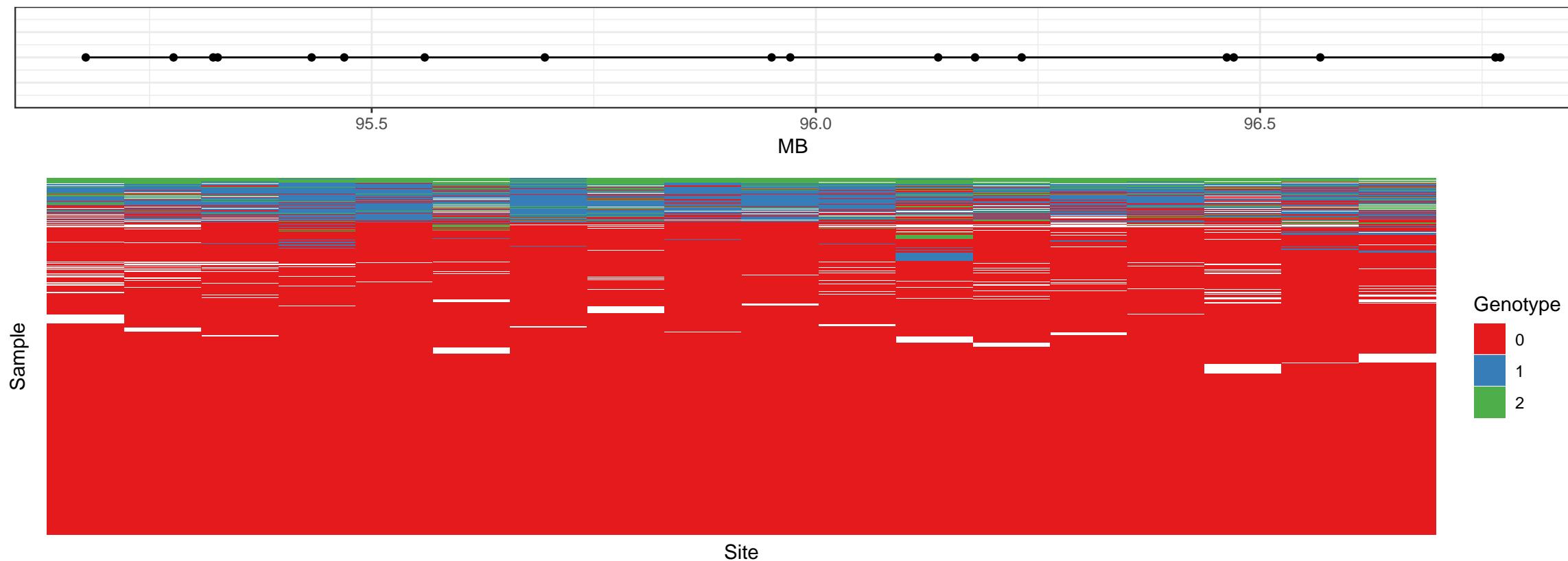


# Ha412HOChr10:95.178–96.77MB Size=1.592MB

2631\_0.39 BetweenSS = 0.963041417849863

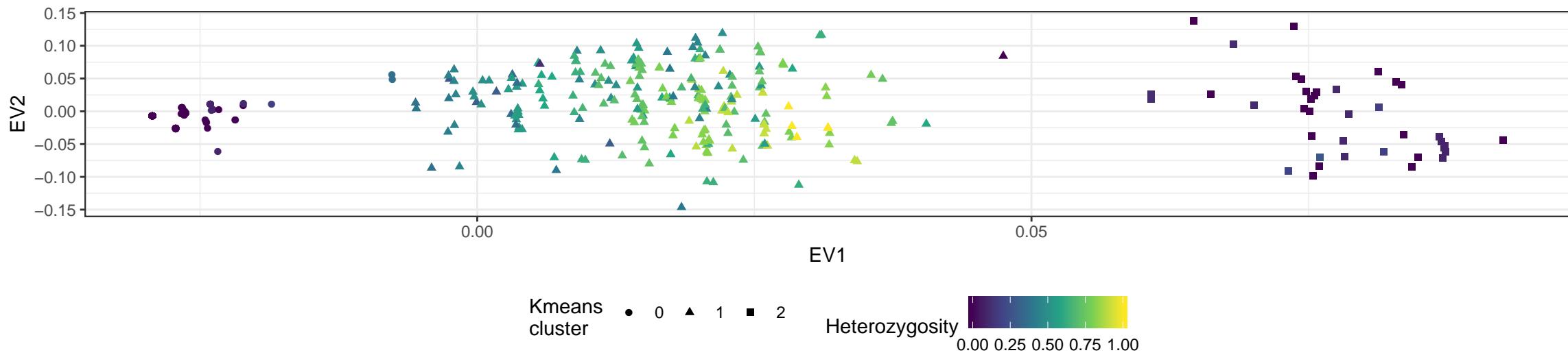


Ha412HOChr10

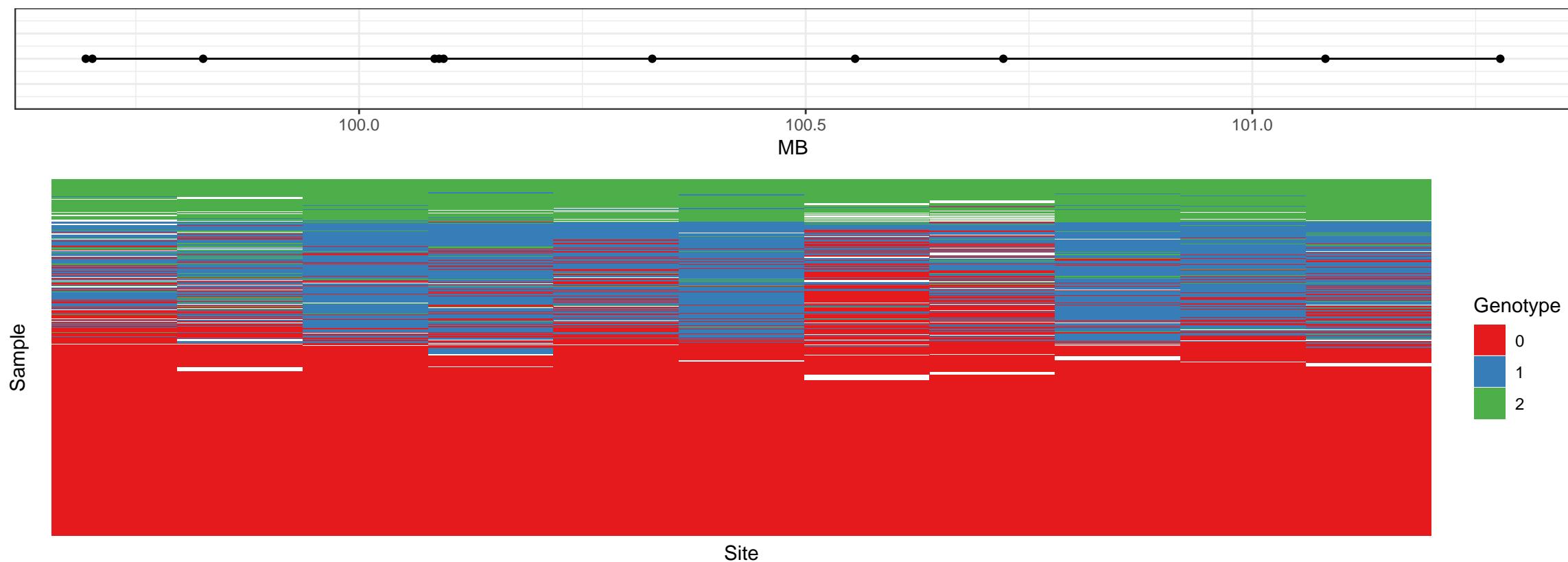


# Ha412HOChr02:99.694–101.278MB Size=1.584MB

1373\_0.61 BetweenSS = 0.968785872097168

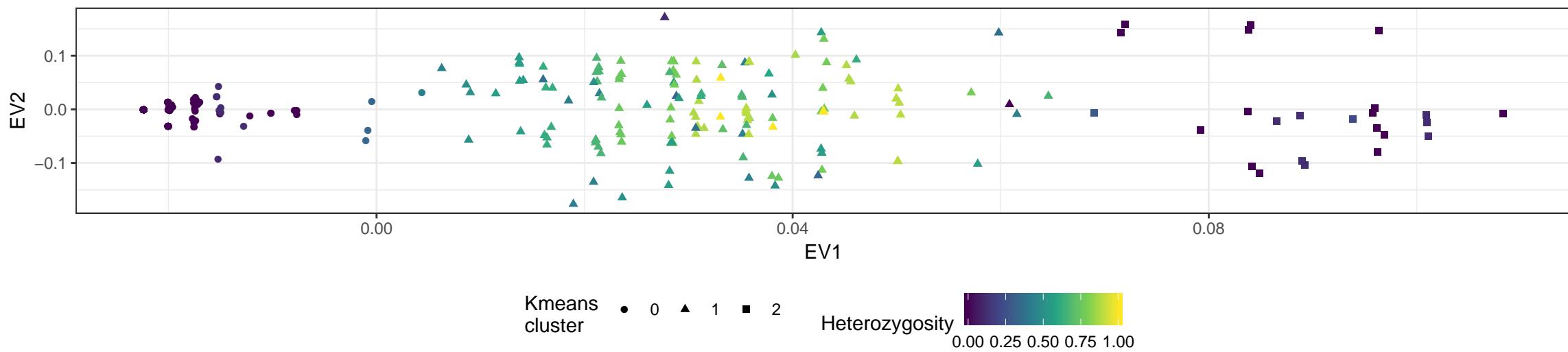


Ha412HOChr02

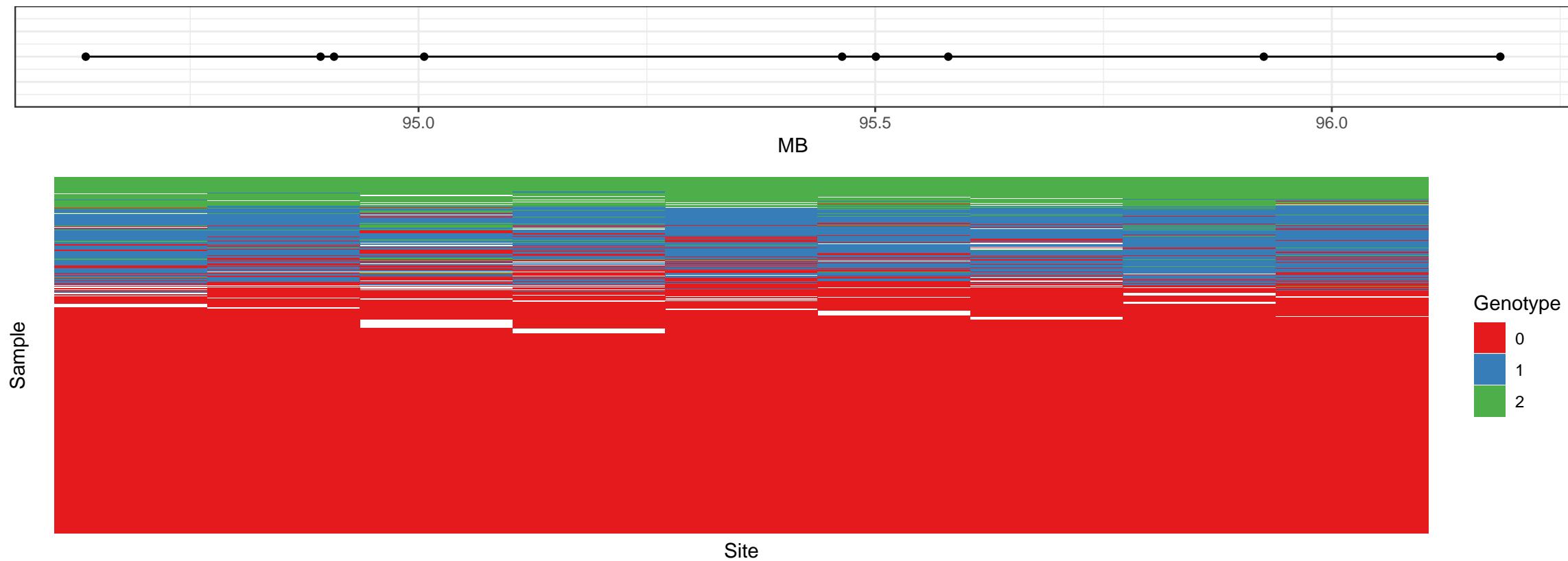


# Ha412HOChr10:94.636–96.184MB Size=1.549MB

887\_0.69 BetweenSS = 0.967334338209807

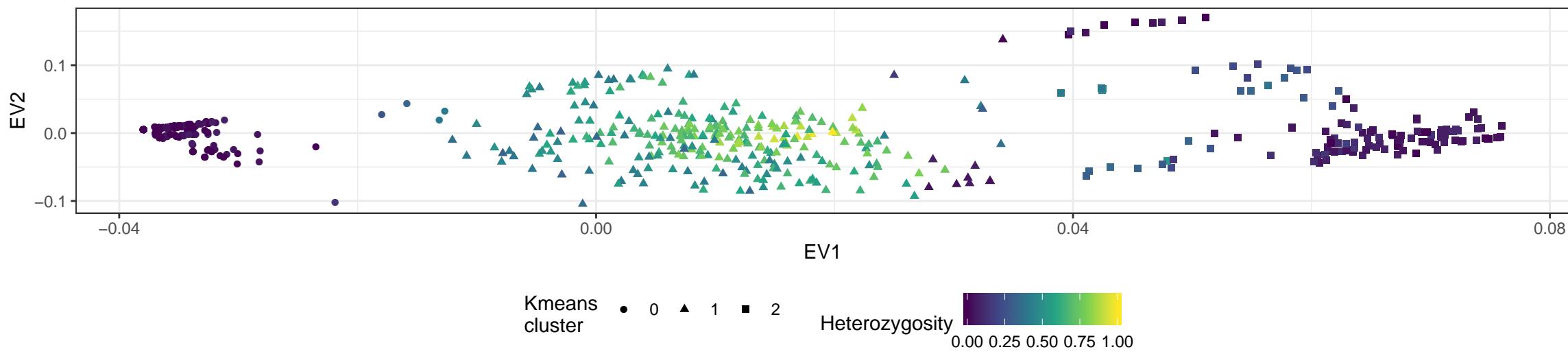


Ha412HOChr10

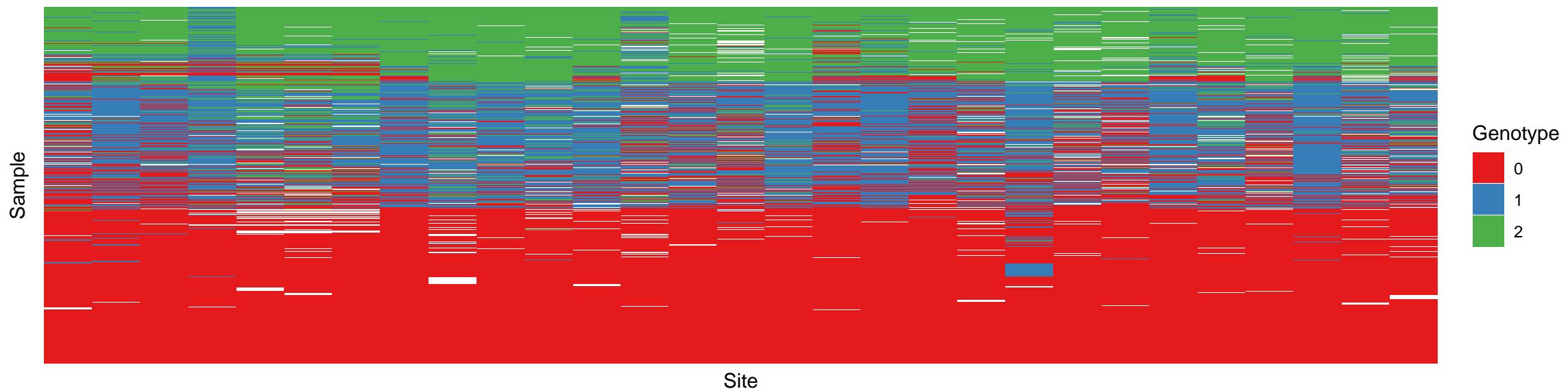
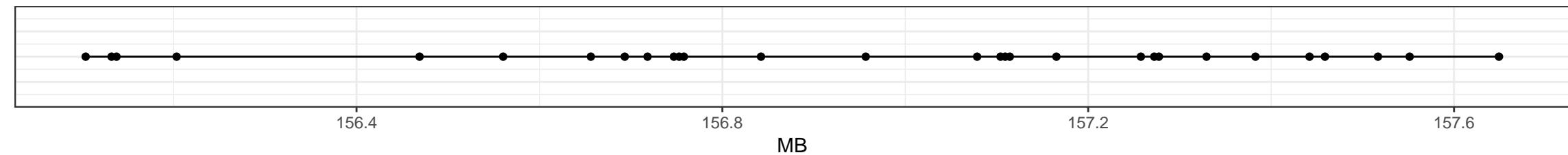


# Ha412HOChr12:156.104–157.649MB Size=1.545MB

1972\_0.54 BetweenSS = 0.959009829424238

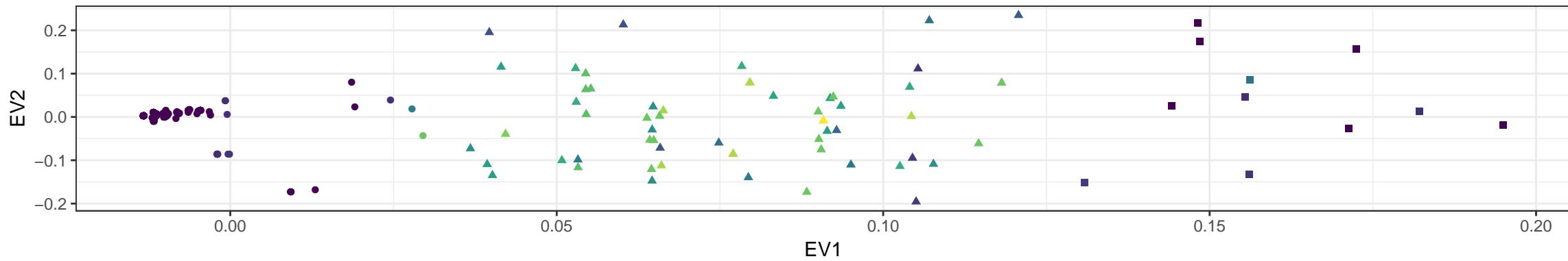


Ha412HOChr12



# Ha412HOChr12:156.279–157.81MB Size=1.531MB

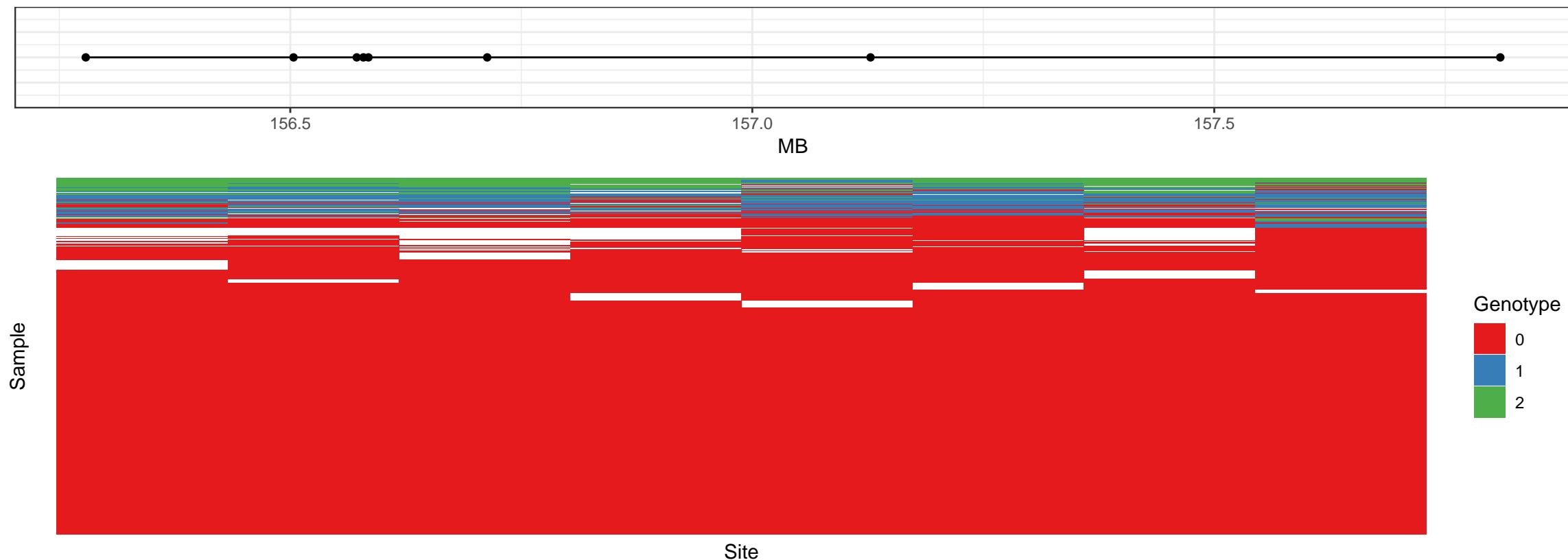
2035\_0.53 BetweenSS = 0.951896810163869



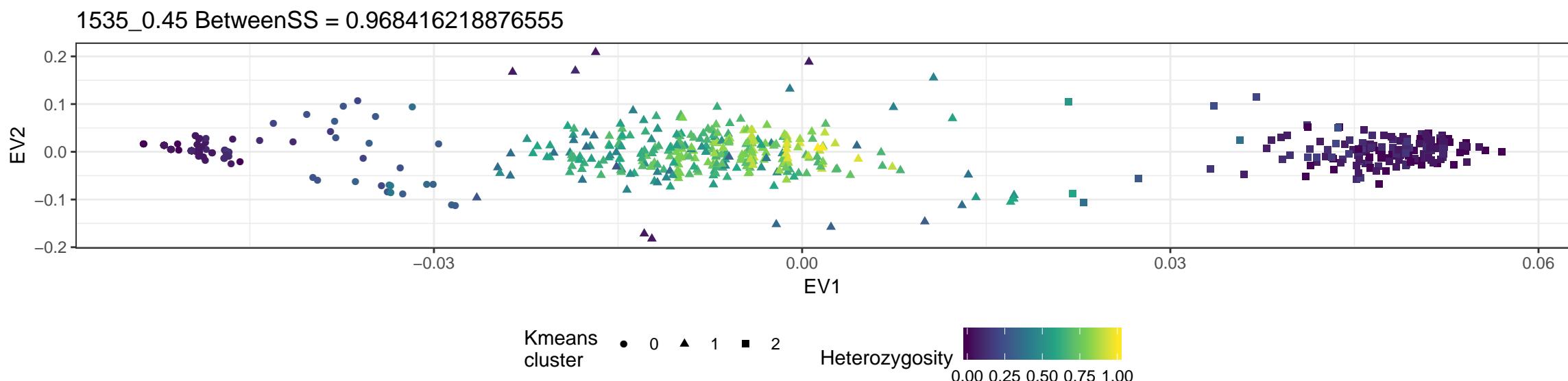
Kmeans  
cluster

Heterozygosity  
0.00 0.25 0.50 0.75 1.00

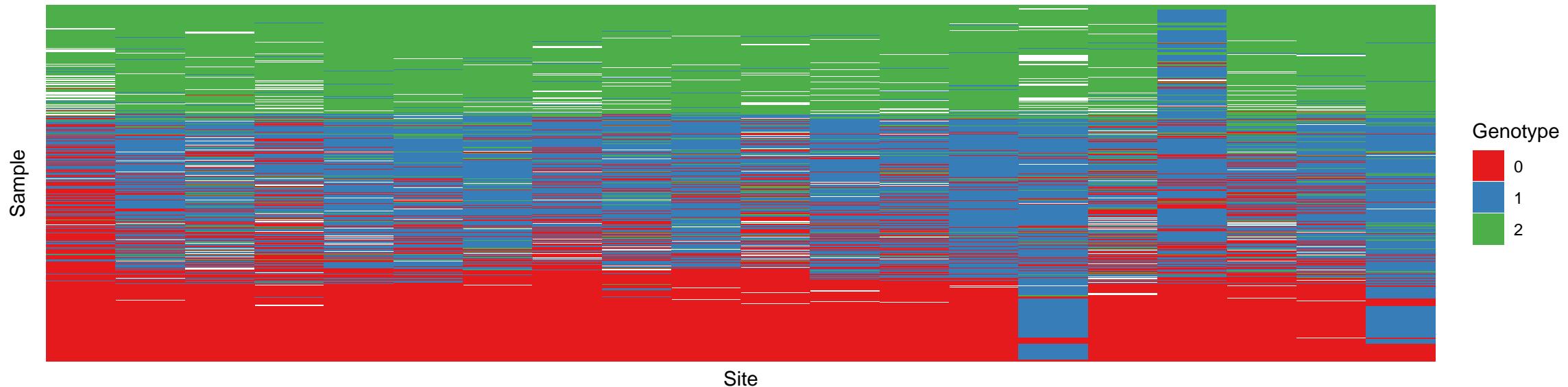
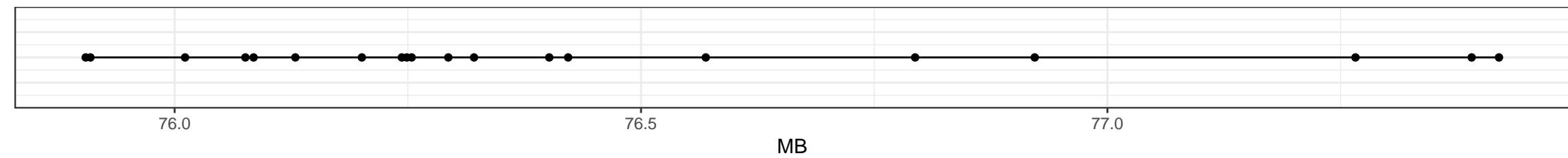
Ha412HOChr12



# Ha412HOChr09:75.905–77.42MB Size=1.515MB

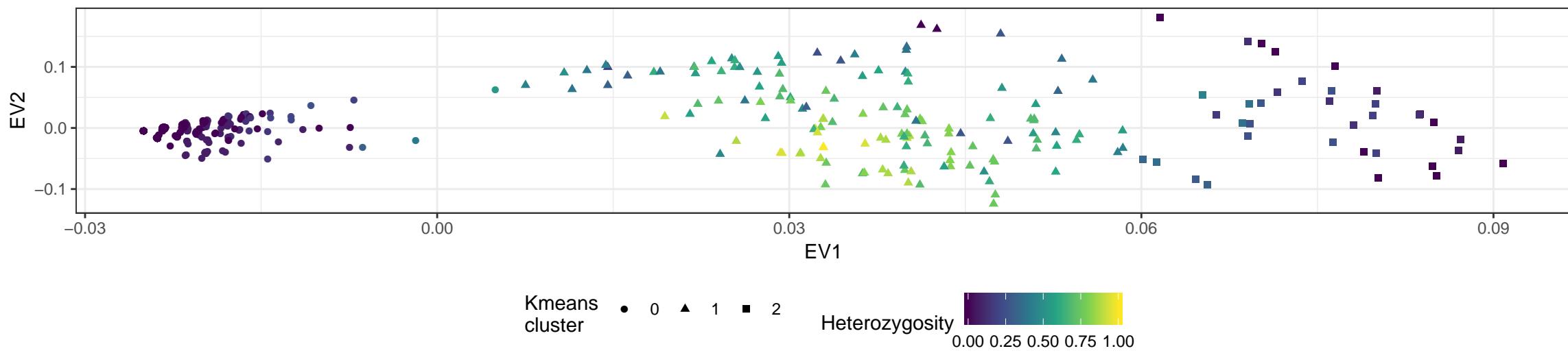


## Ha412HOChr09

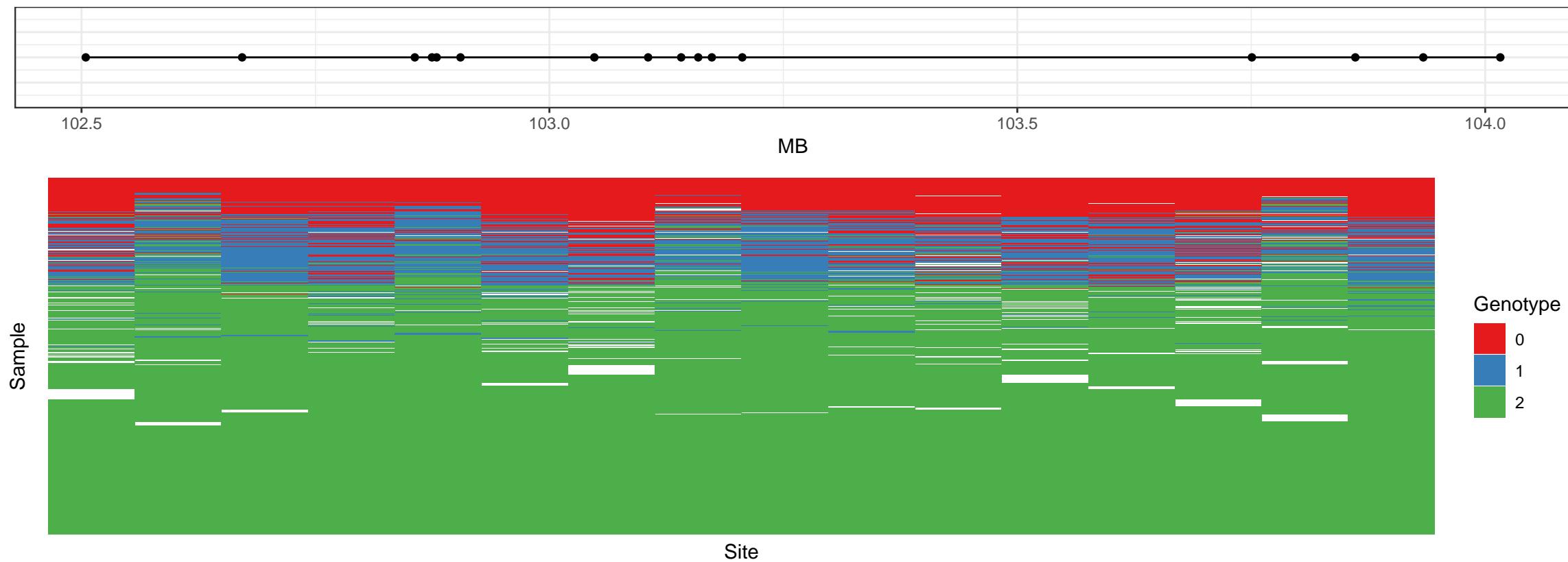


# Ha412HOChr02:102.505–104.016MB Size=1.512MB

939\_0.67 BetweenSS = 0.970920141045194

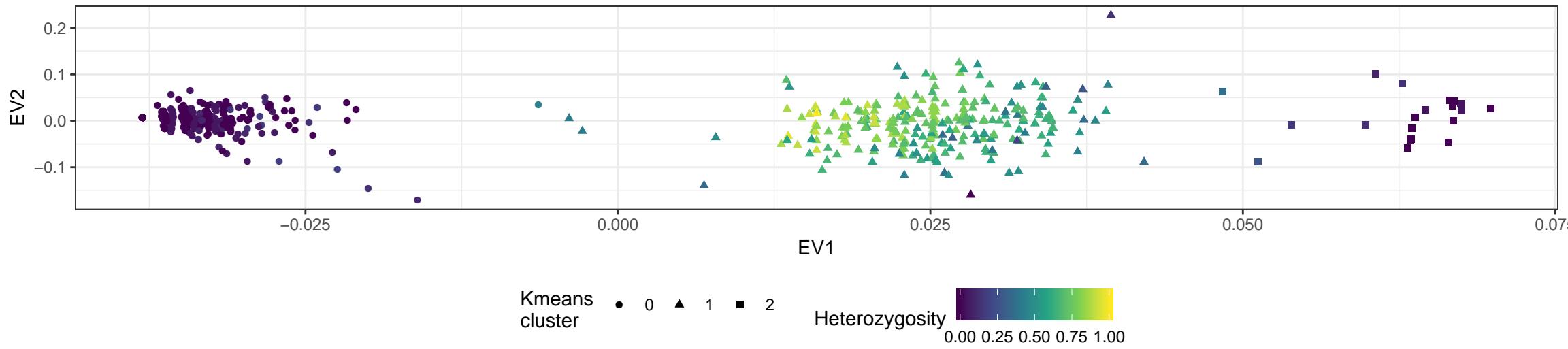


Ha412HOChr02

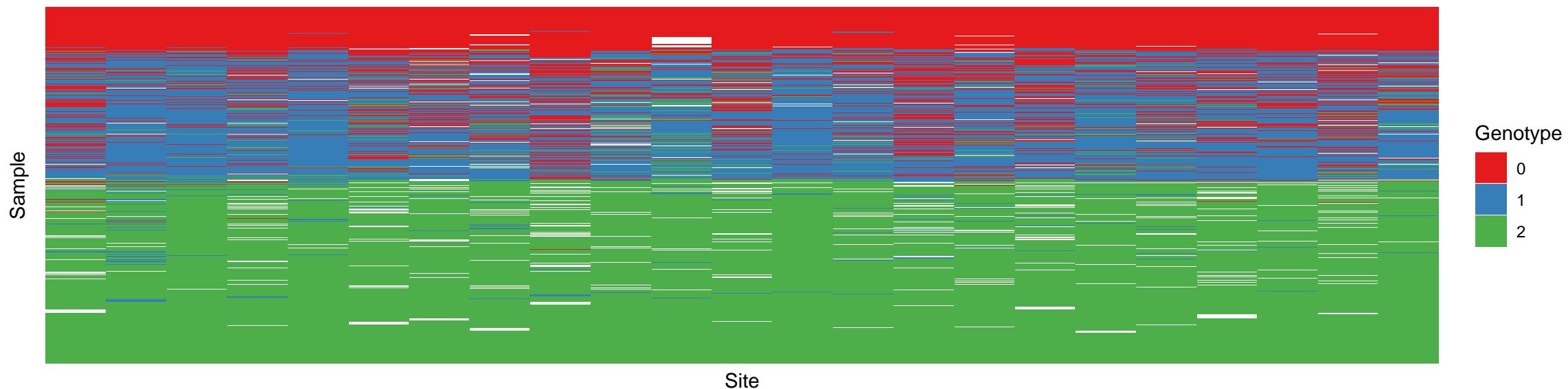
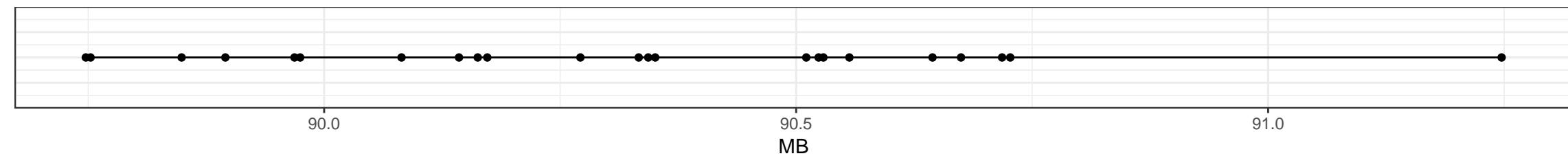


# Ha412HOChr09:89.748–91.247MB Size=1.5MB

486\_0.68 BetweenSS = 0.982010850593058

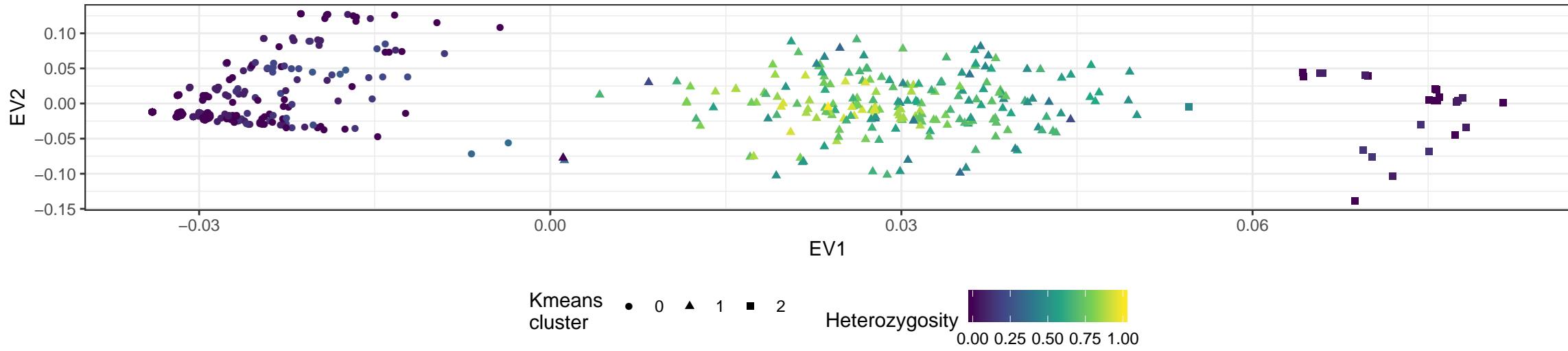


Ha412HOChr09

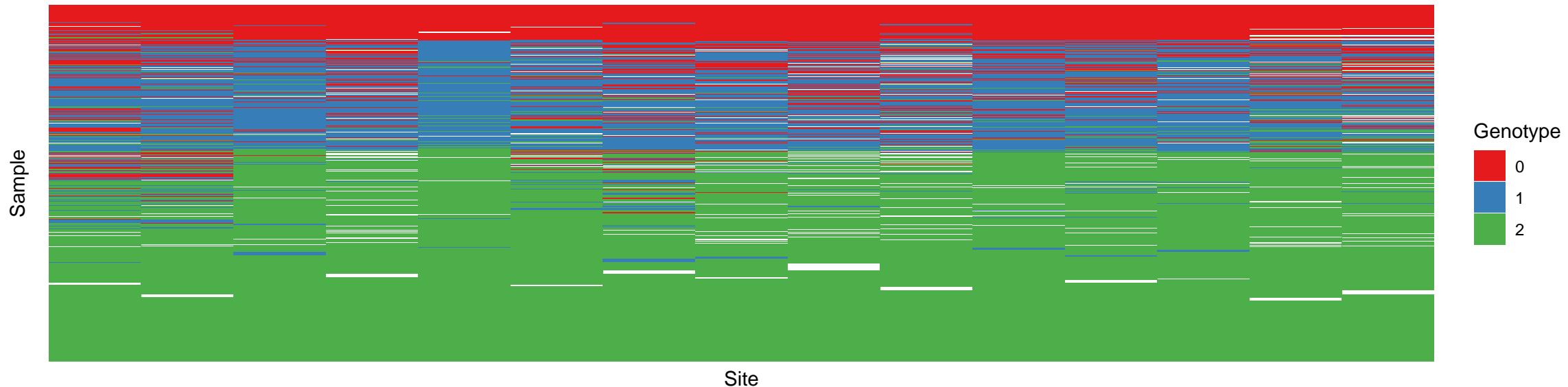
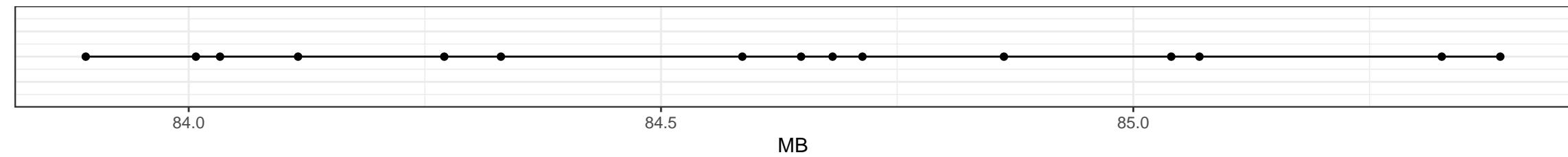


# Ha412HOChr04:83.891–85.388MB Size=1.497MB

2174\_0.5 BetweenSS = 0.966669468983959

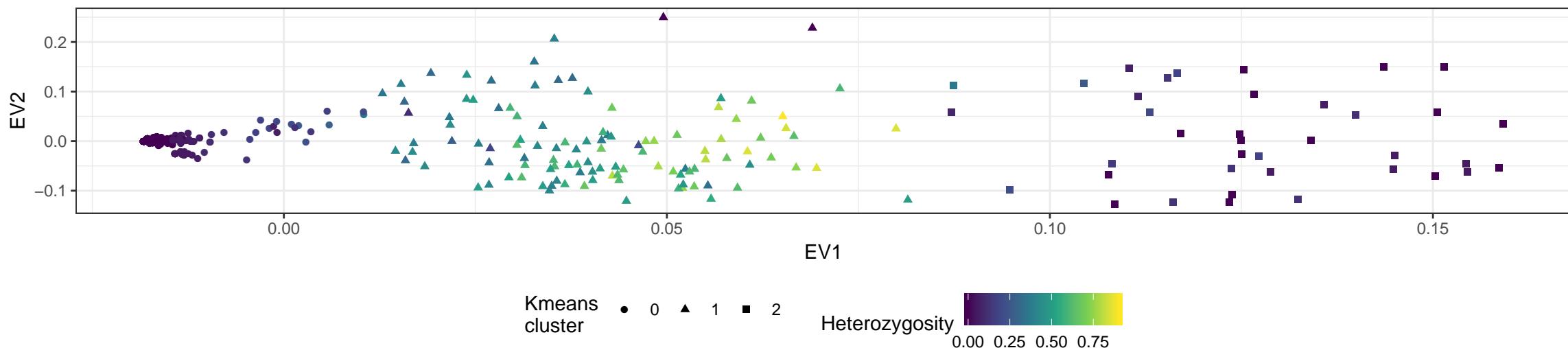


Ha412HOChr04

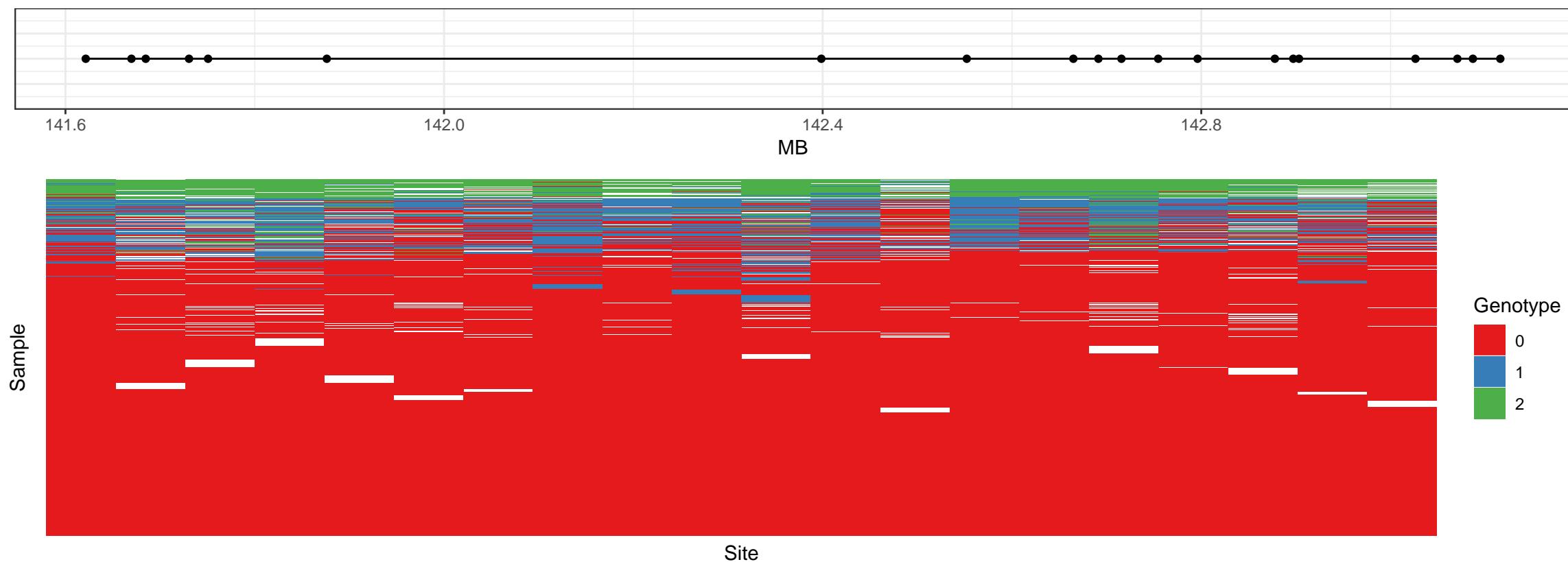


# Ha412HOChr06:141.621–143.116MB Size=1.494MB

1583\_0.56 BetweenSS = 0.953228601881424

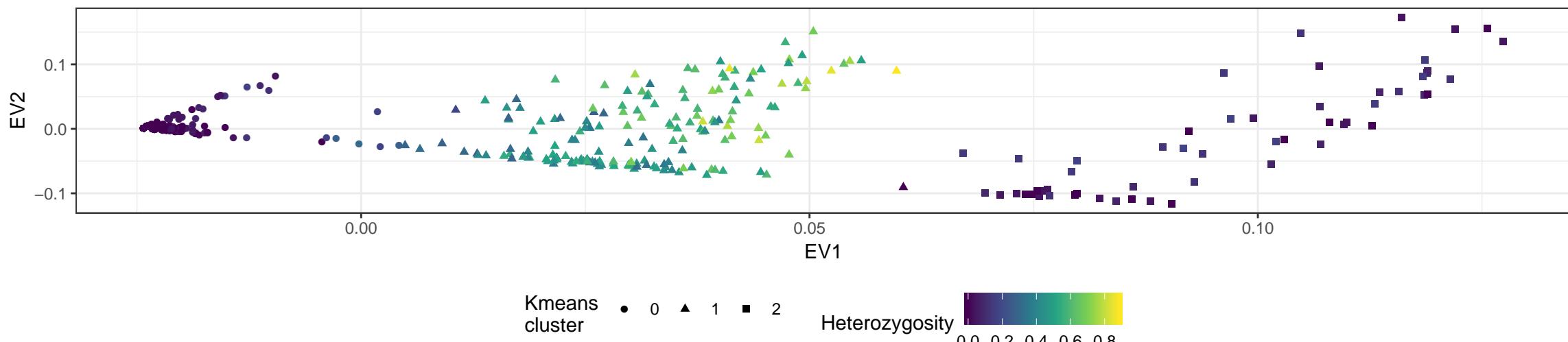


Ha412HOChr06

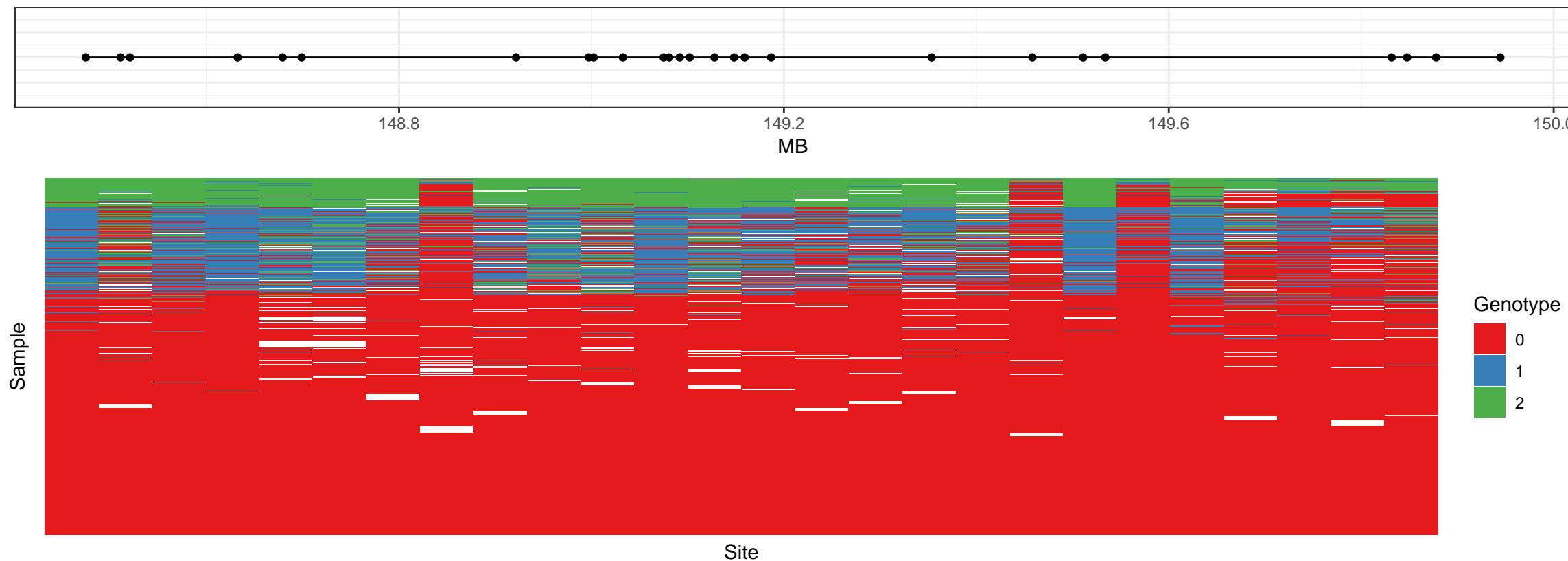


# Ha412HOChr17:148.474–149.945MB Size=1.47MB

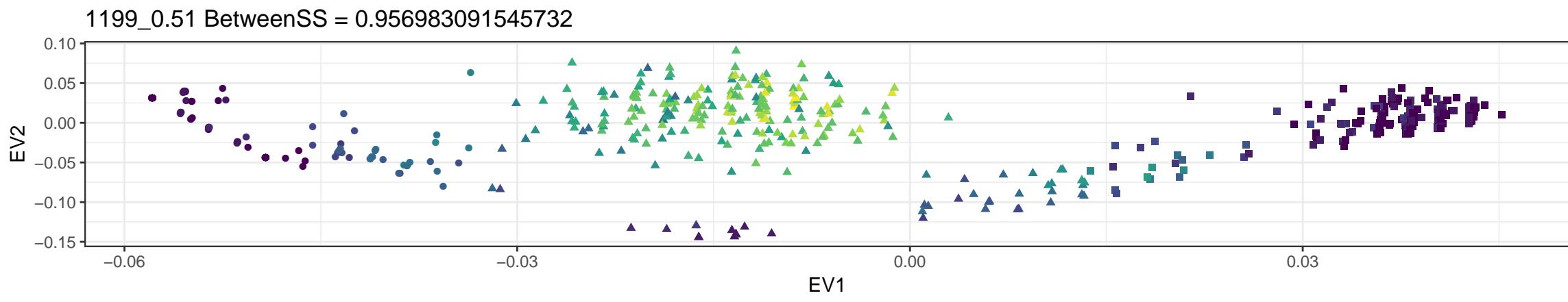
3130\_0.27 BetweenSS = 0.957025134489235



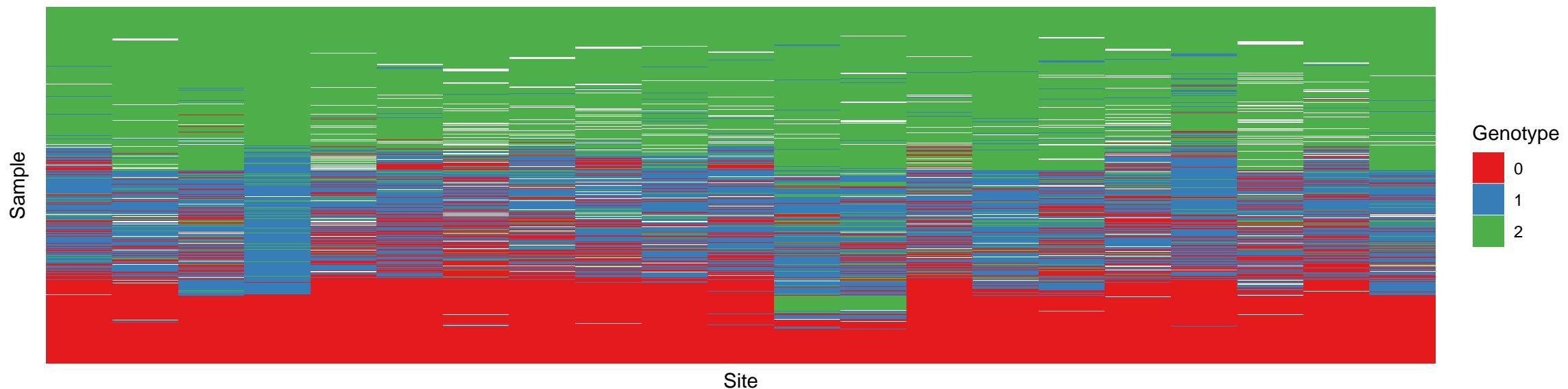
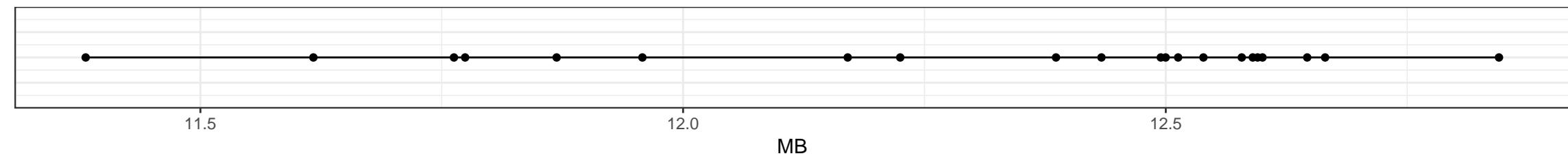
Ha412HOChr17



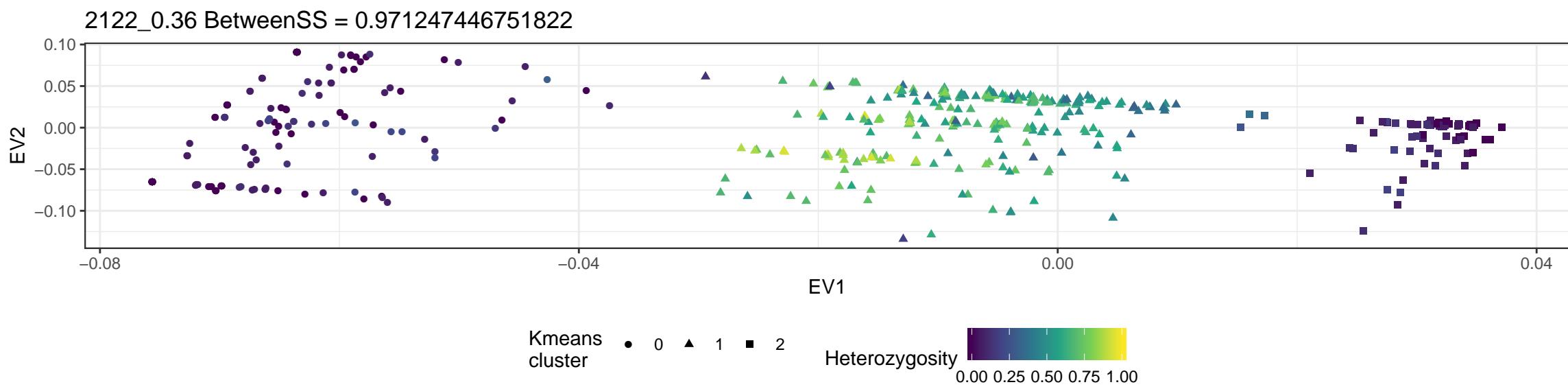
# Ha412HOChr01:11.381–12.845MB Size=1.464MB



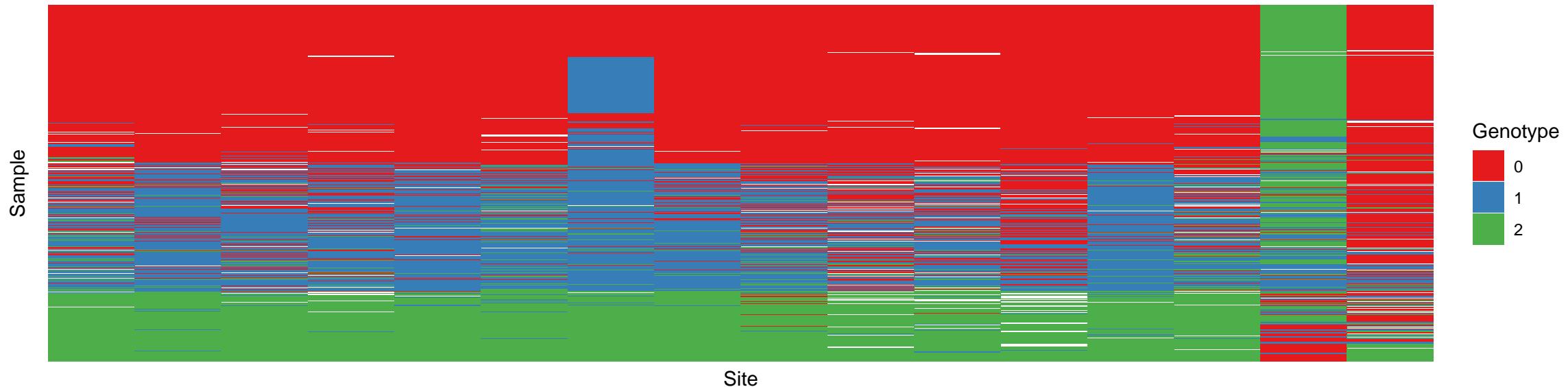
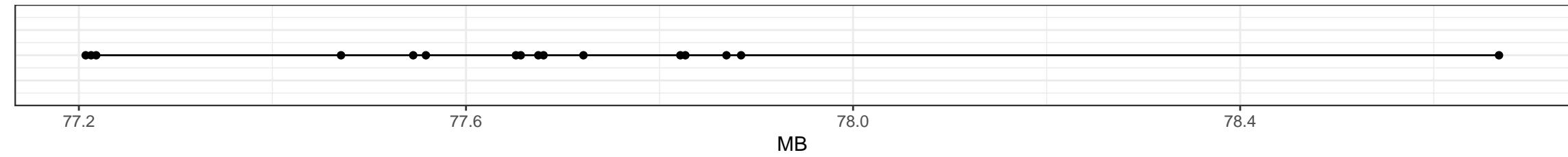
Ha412HOChr01



# Ha412HOChr03:77.207–78.667MB Size=1.46MB

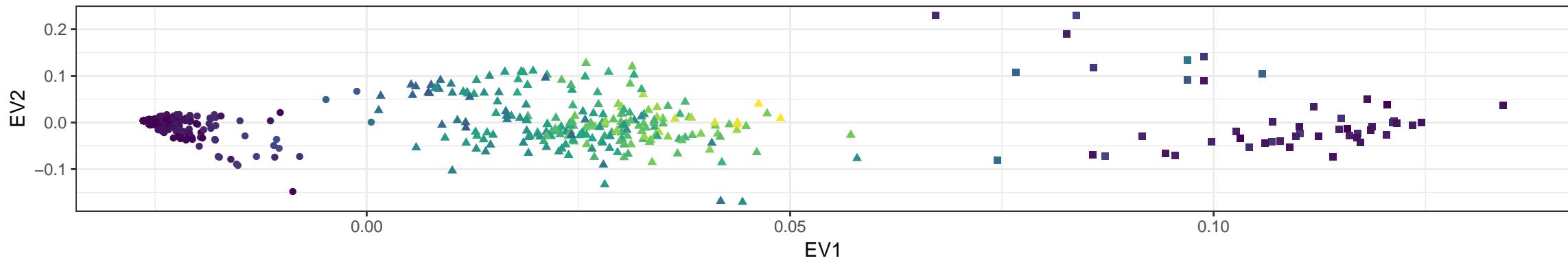


Ha412HOChr03

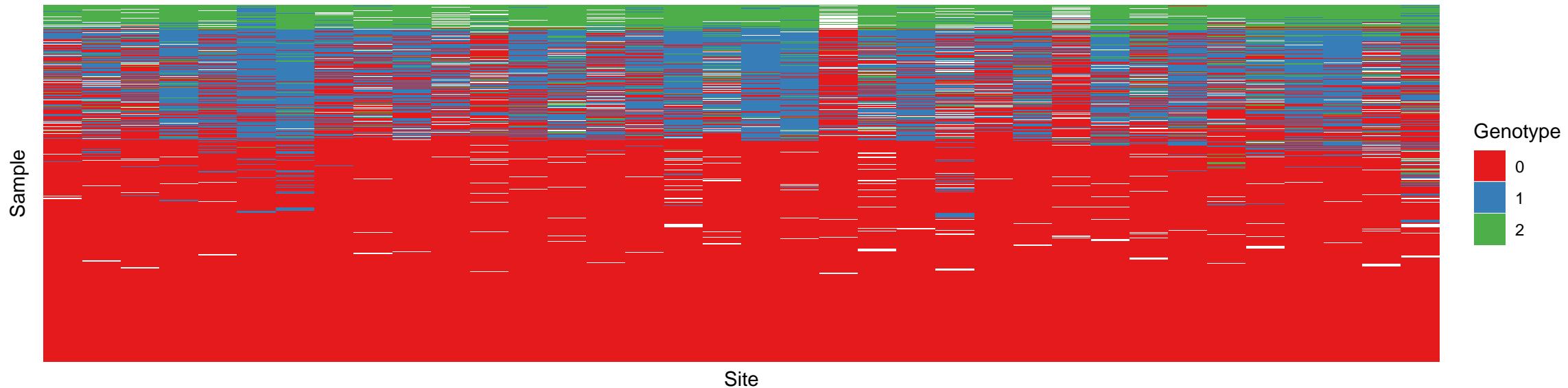


# Ha412HOChr06:140.159–141.616MB Size=1.458MB

2513\_0.34 BetweenSS = 0.960803748081364

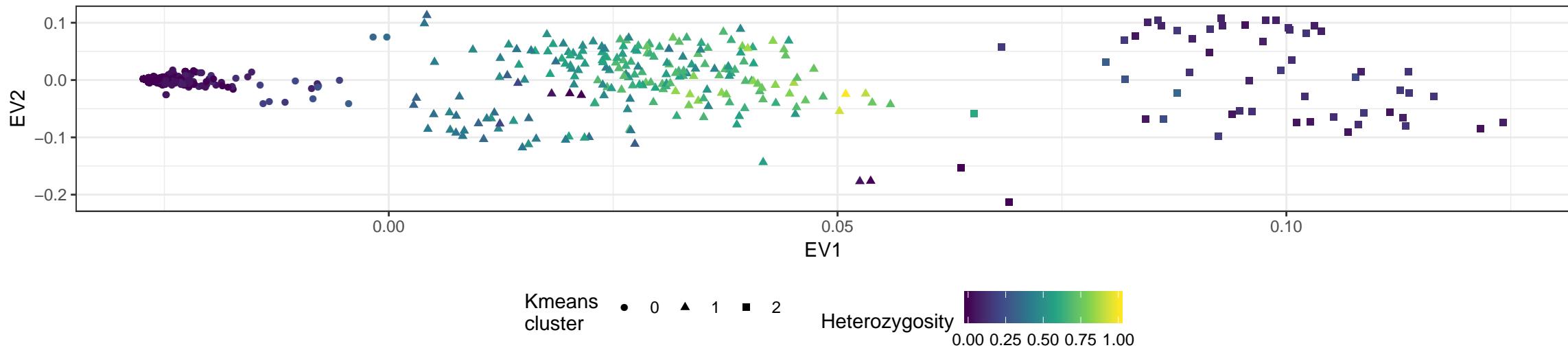


Ha412HOChr06

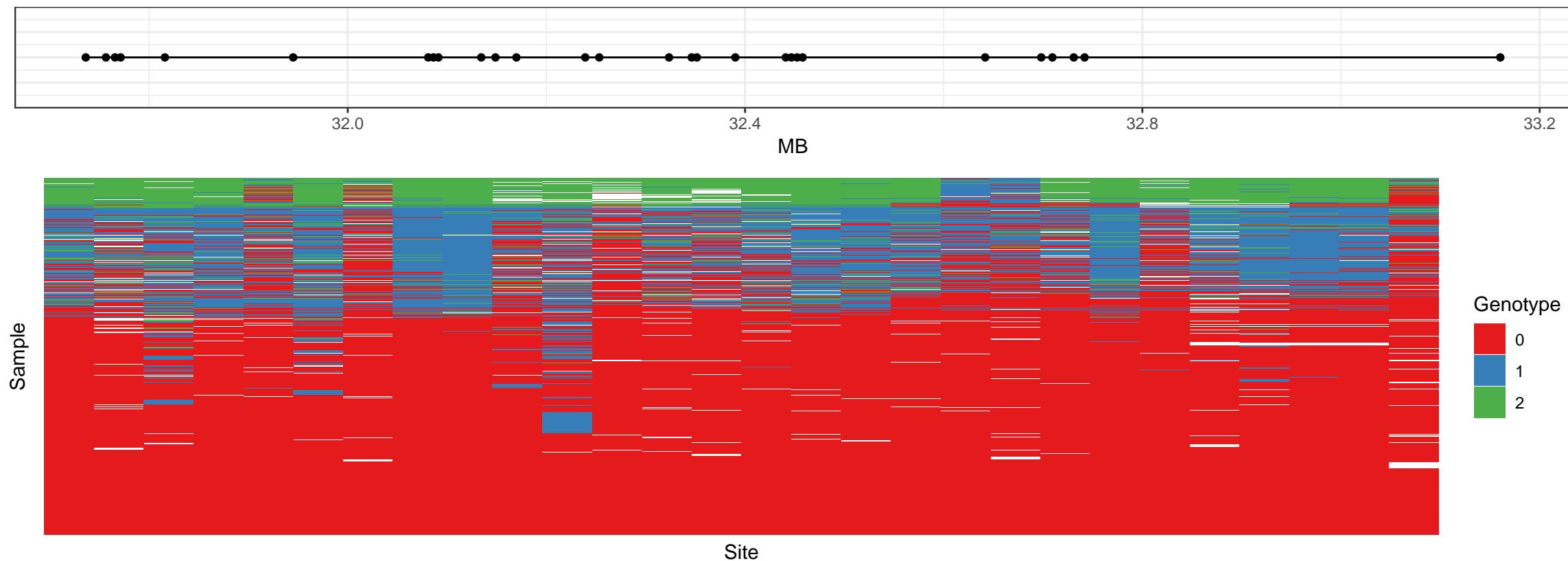


# Ha412HOChr14:31.736–33.16MB Size=1.424MB

1936\_0.35 BetweenSS = 0.955778822052165

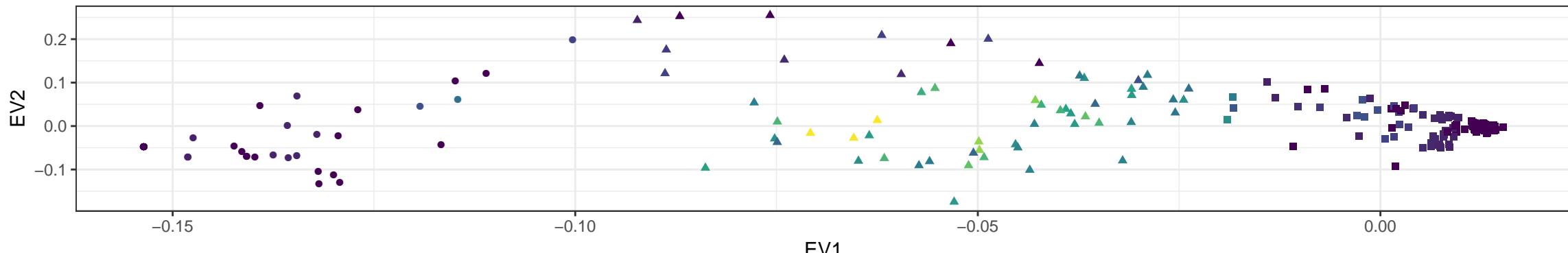


Ha412HOChr14



# Ha412HOChr06:85.596–87.003MB Size=1.407MB

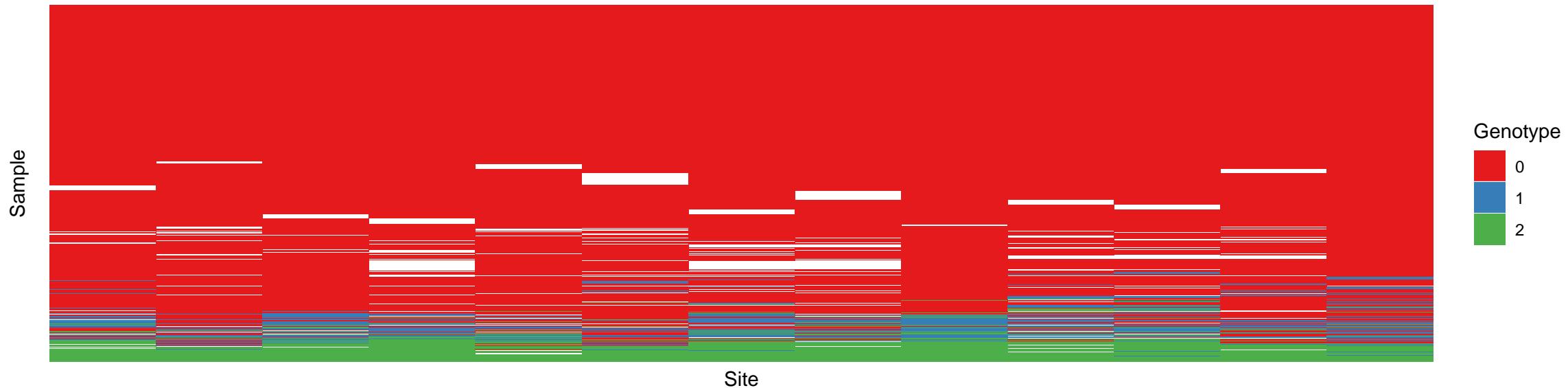
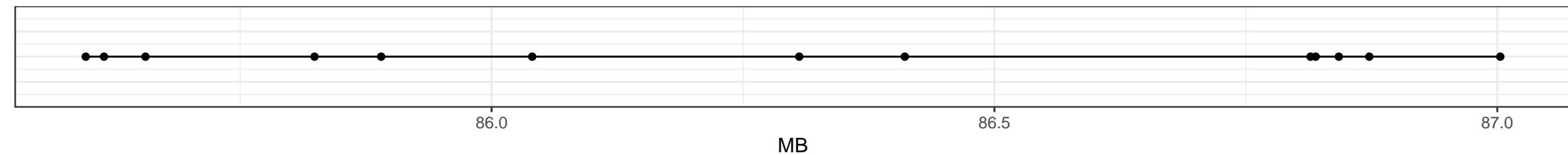
1217\_0.63 BetweenSS = 0.958764799052823



Kmeans  
cluster

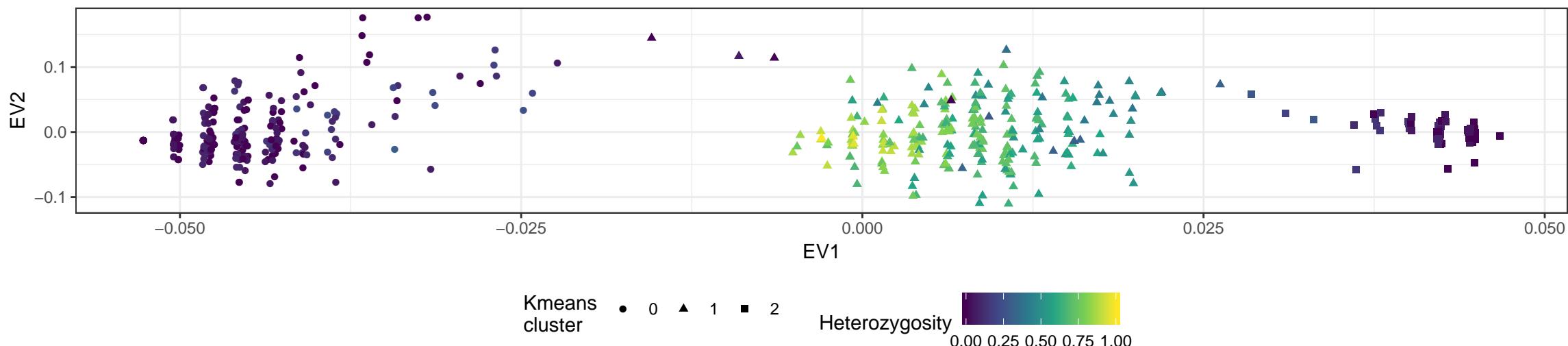
Heterozygosity  
0.00 0.25 0.50 0.75

Ha412HOChr06

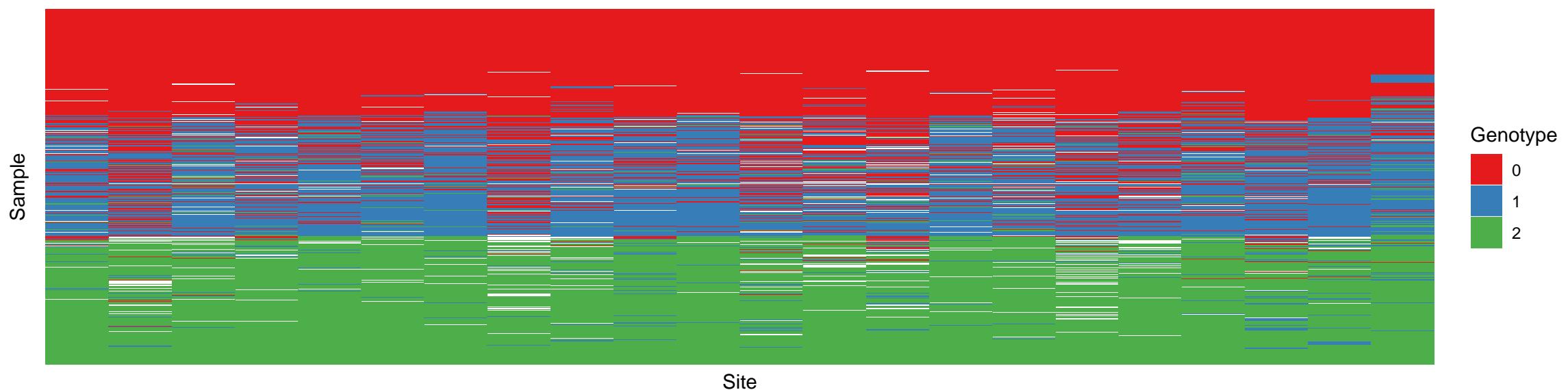
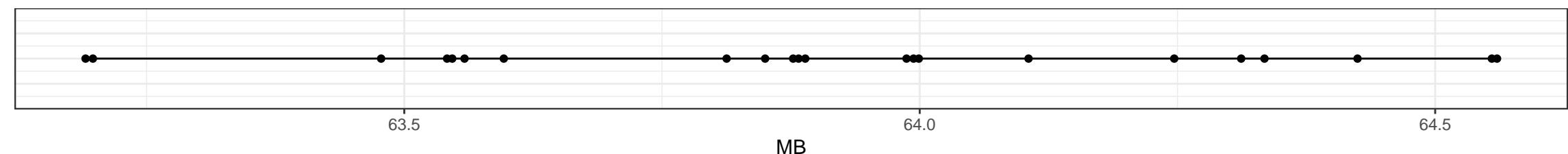


# Ha412HOChr10:63.191–64.56MB Size=1.369MB

846\_0.69 BetweenSS = 0.979847243950632

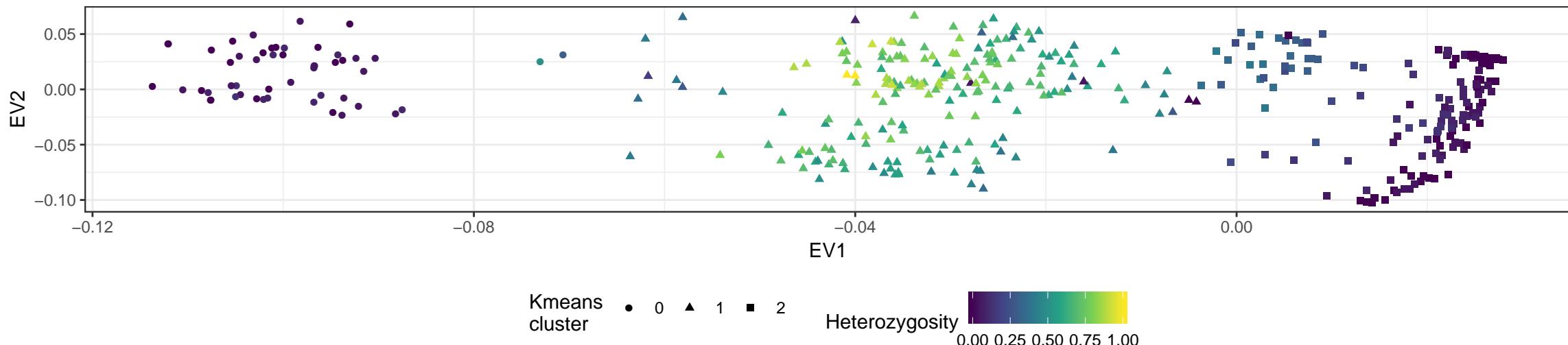


Ha412HOChr10

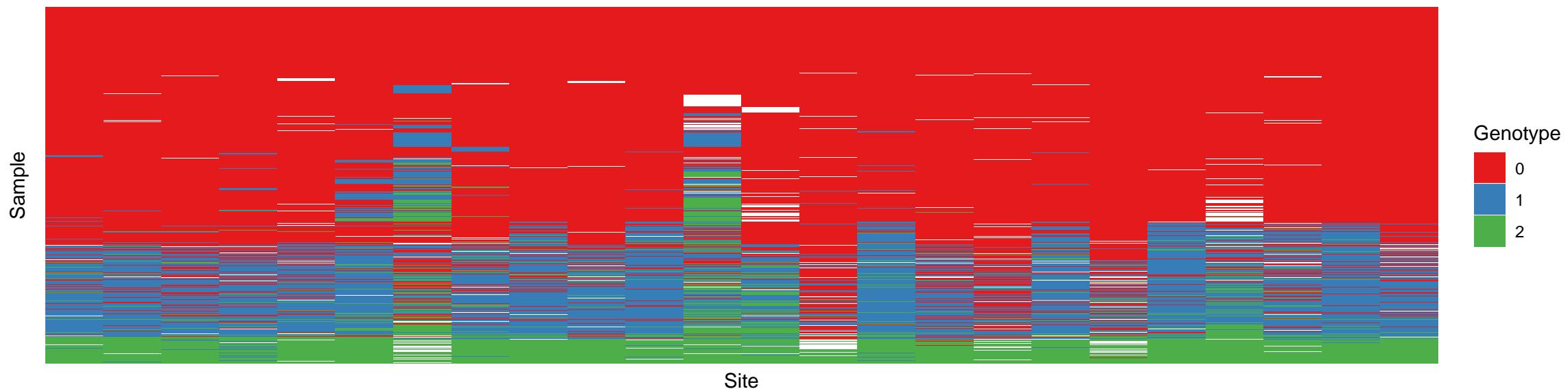
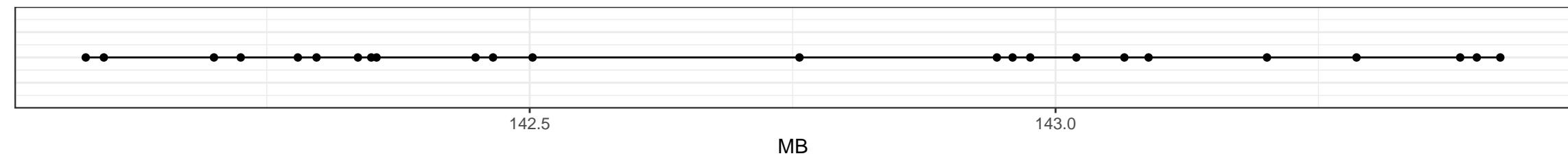


# Ha412HOChr17:142.078–143.423MB Size=1.345MB

2291\_0.44 BetweenSS = 0.952136033856707

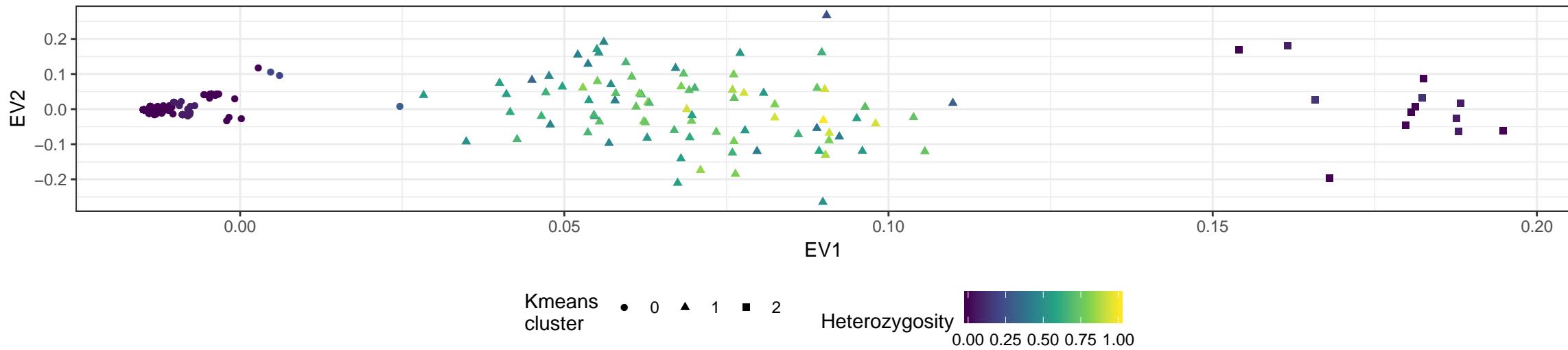


Ha412HOChr17

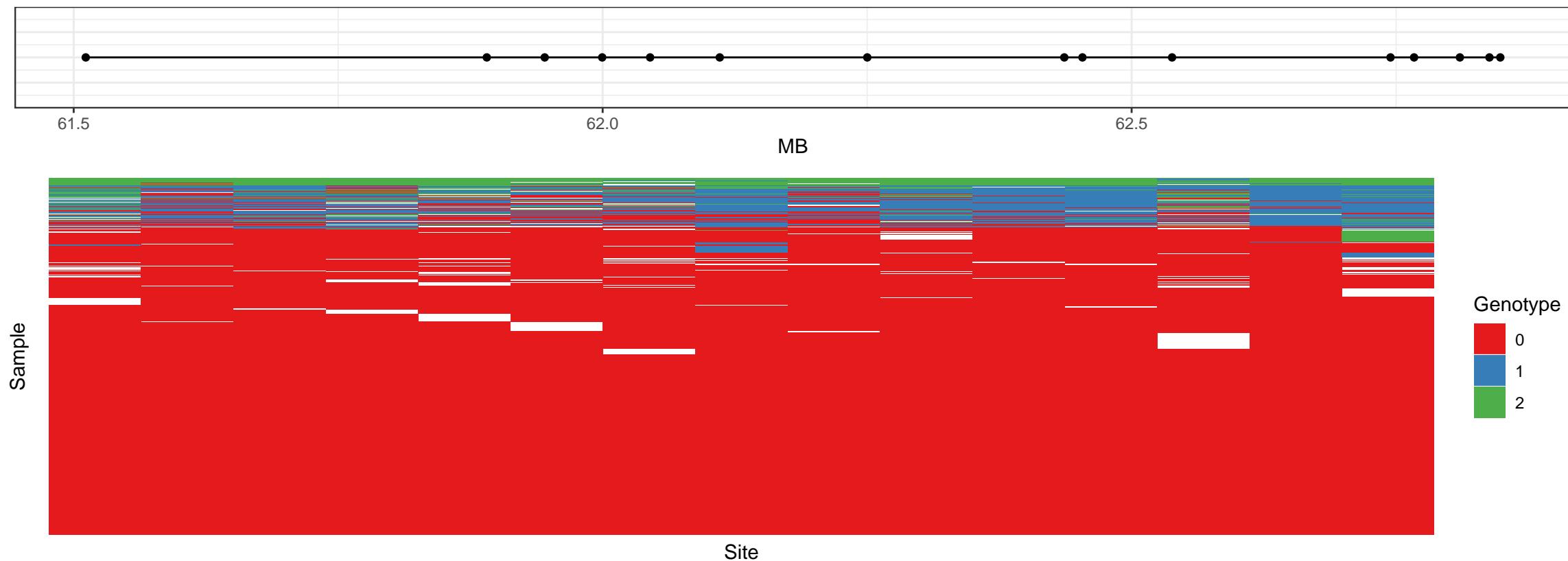


# Ha412HOChr02:61.511–62.848MB Size=1.337MB

1385\_0.61 BetweenSS = 0.965355973061914

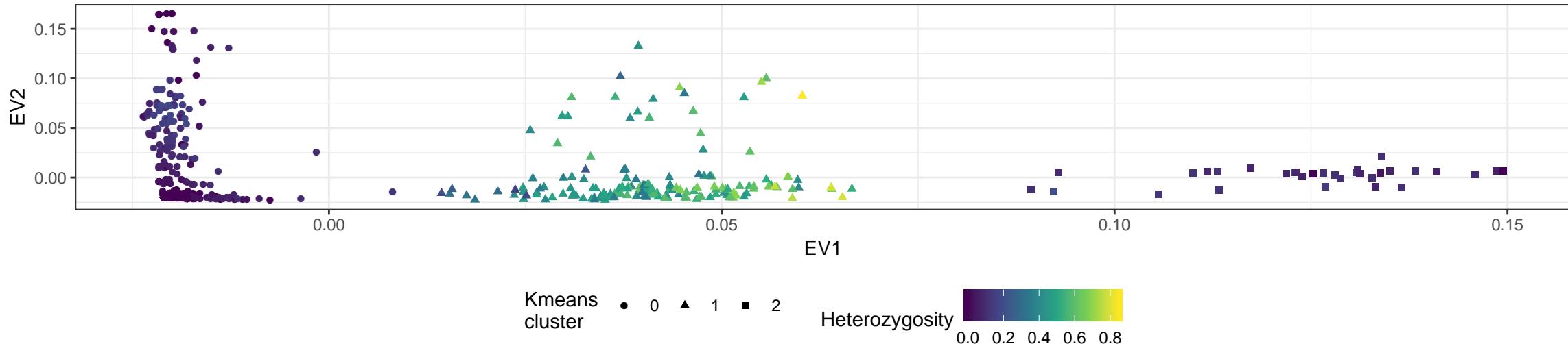


Ha412HOChr02

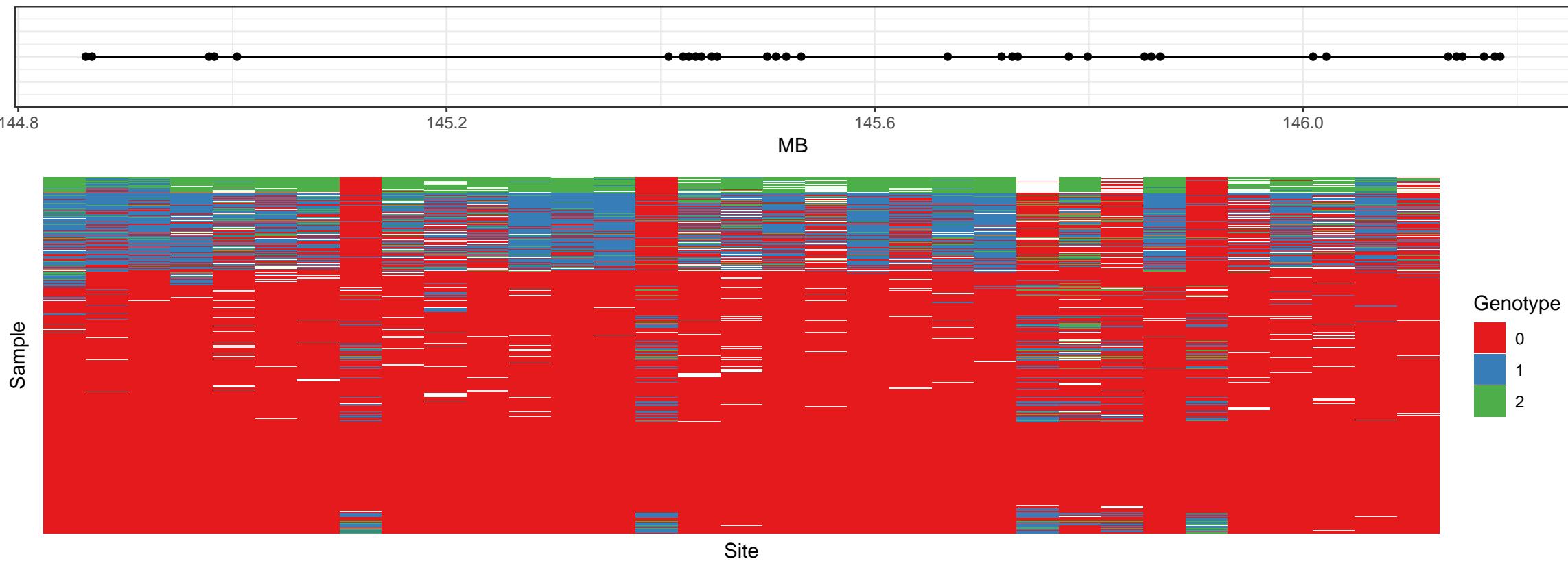


# Ha412HOChr06:144.863–146.184MB Size=1.321MB

2760\_0.25 BetweenSS = 0.97092701199115

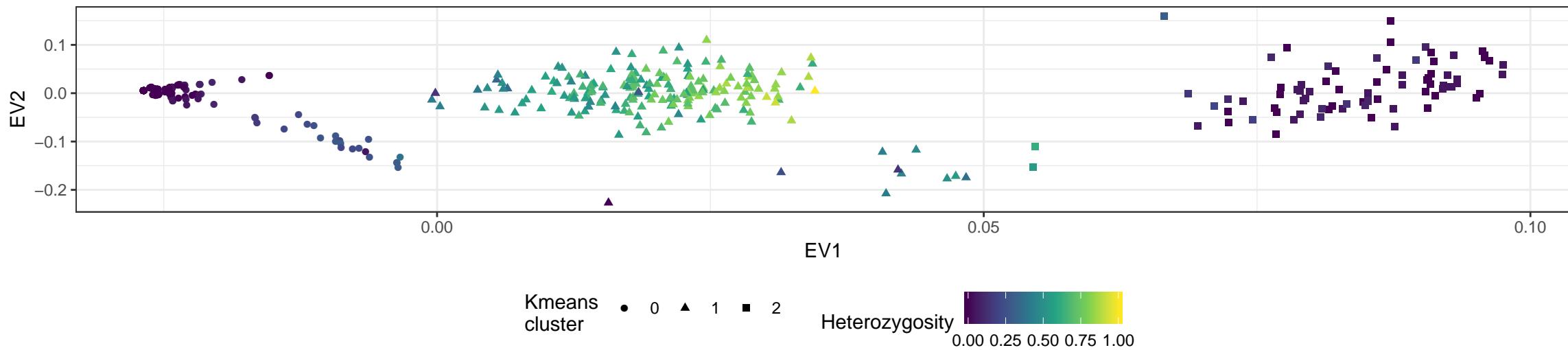


Ha412HOChr06

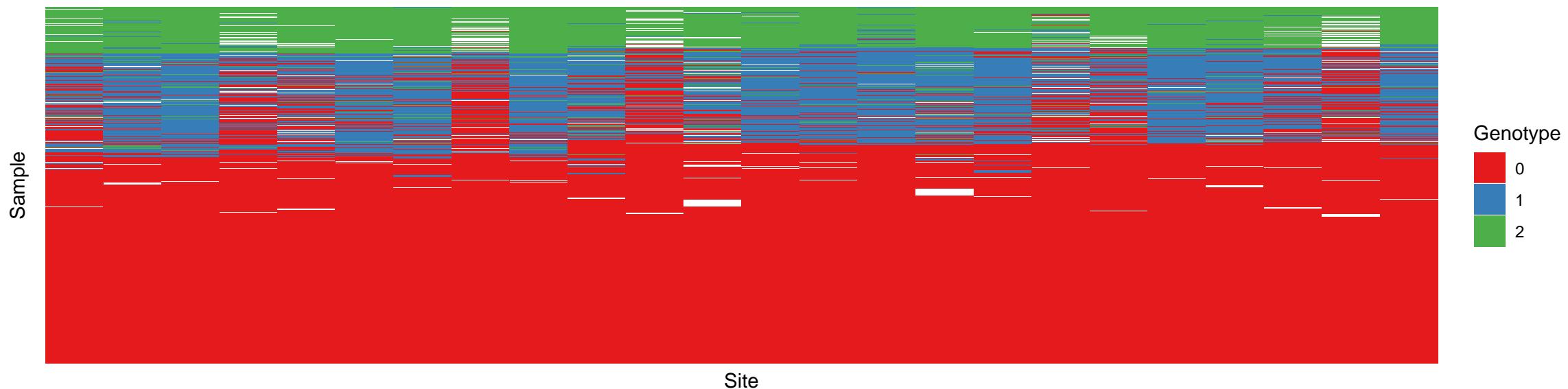
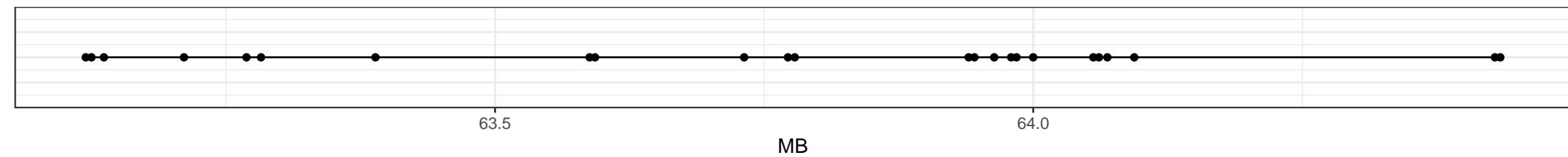


# Ha412HOChr03:63.12–64.434MB Size=1.314MB

1012\_0.59 BetweenSS = 0.971588201344033

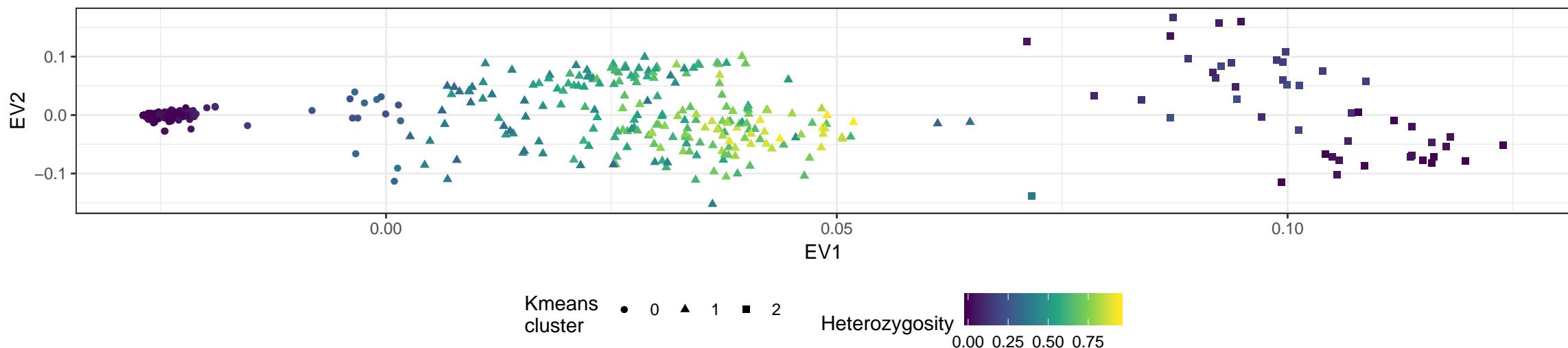


Ha412HOChr03

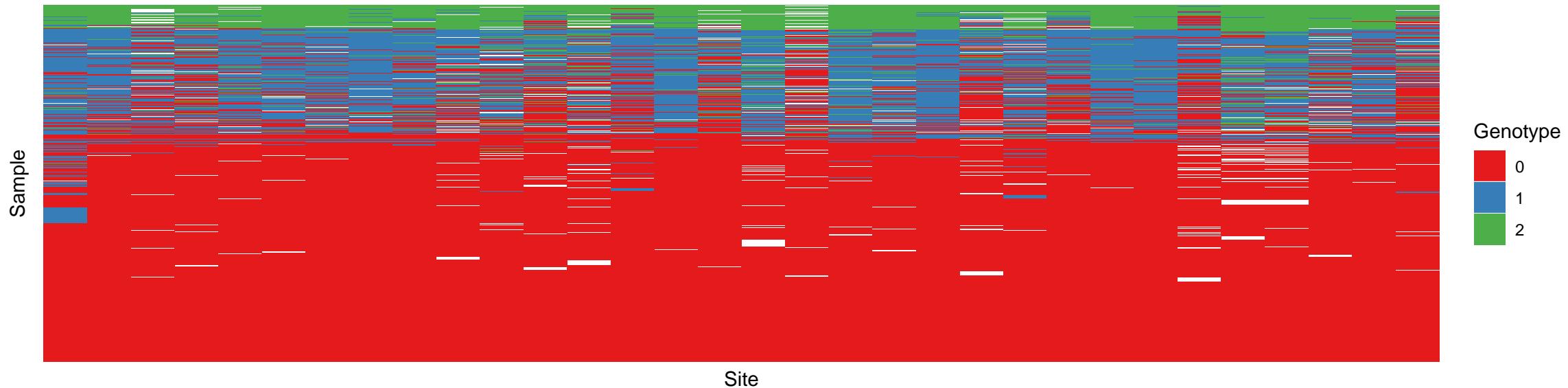
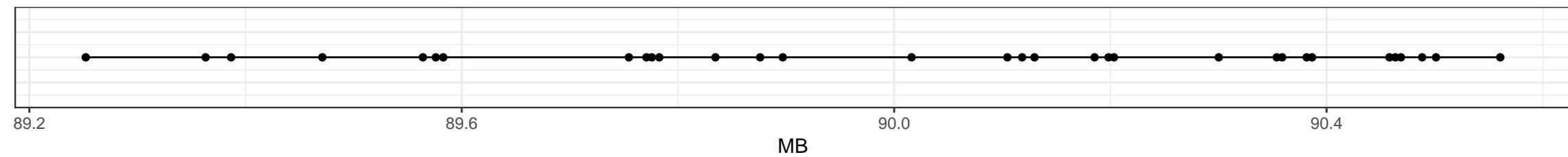


# Ha412HOChr05:89.252–90.561MB Size=1.308MB

1991\_0.46 BetweenSS = 0.95573334232493

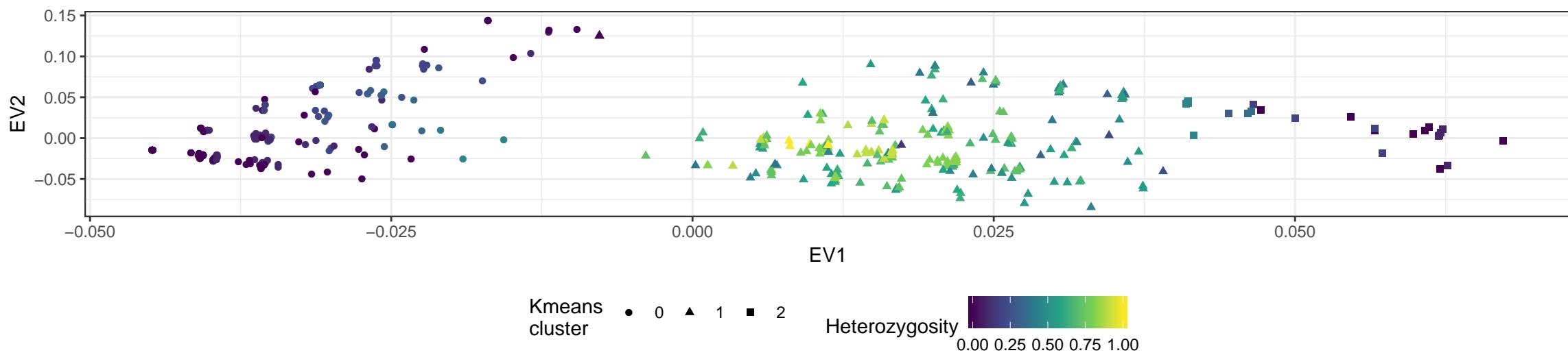


Ha412HOChr05

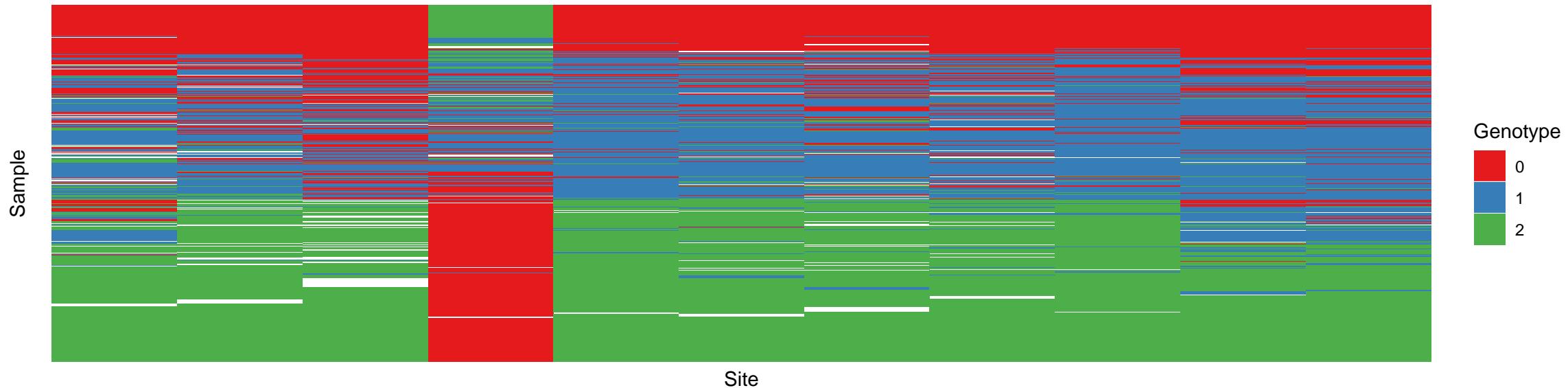
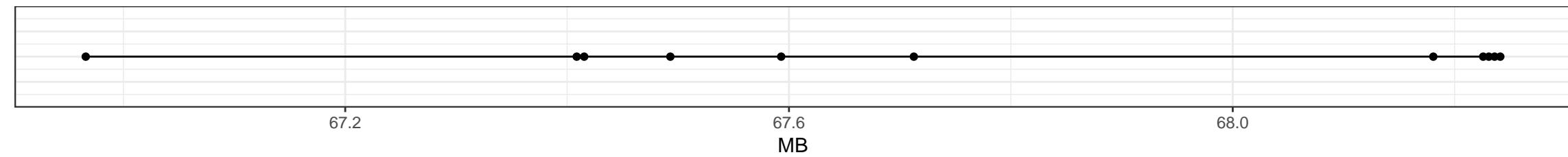


# Ha412HOChr09:66.966–68.241MB Size=1.275MB

1116\_0.55 BetweenSS = 0.951748543385693

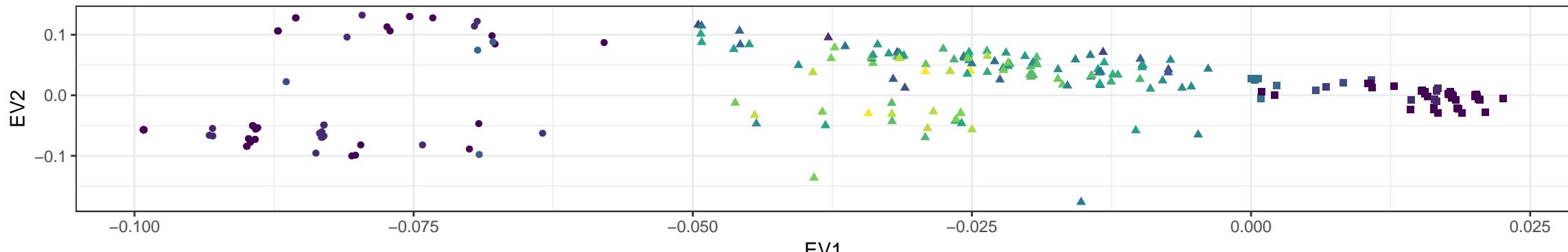


Ha412HOChr09

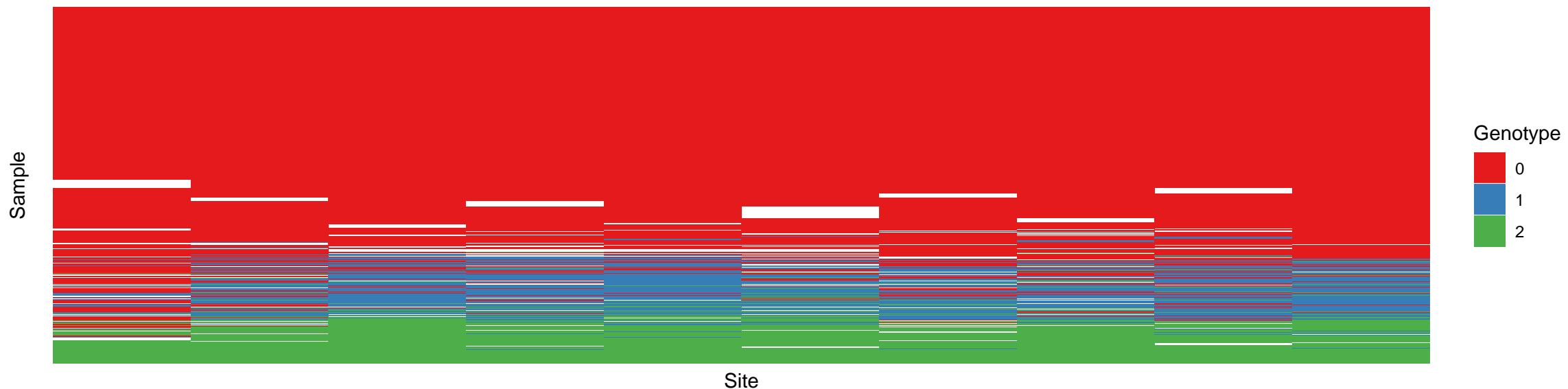
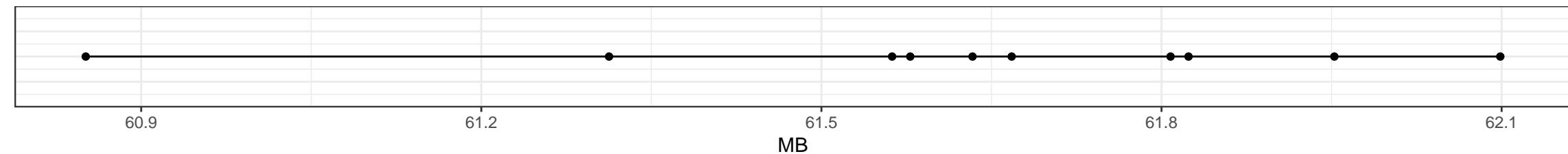


# Ha412HOChr06:60.851–62.099MB Size=1.248MB

1214\_0.63 BetweenSS = 0.968943691436808

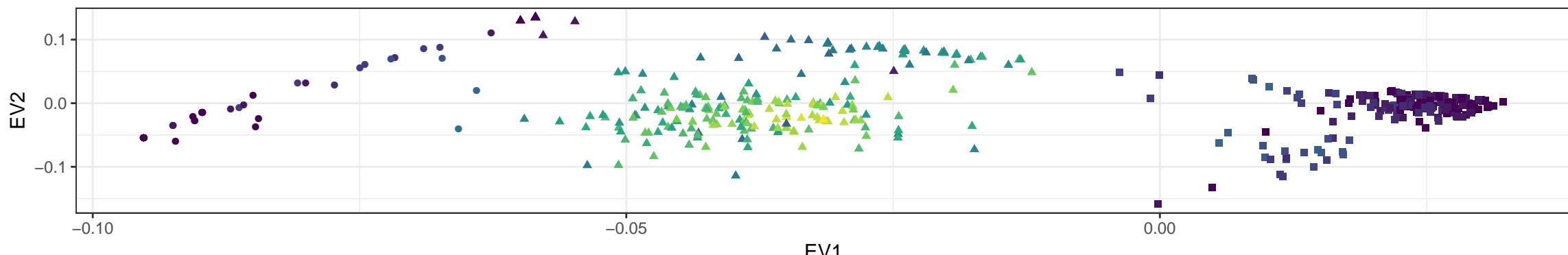


Ha412HOChr06

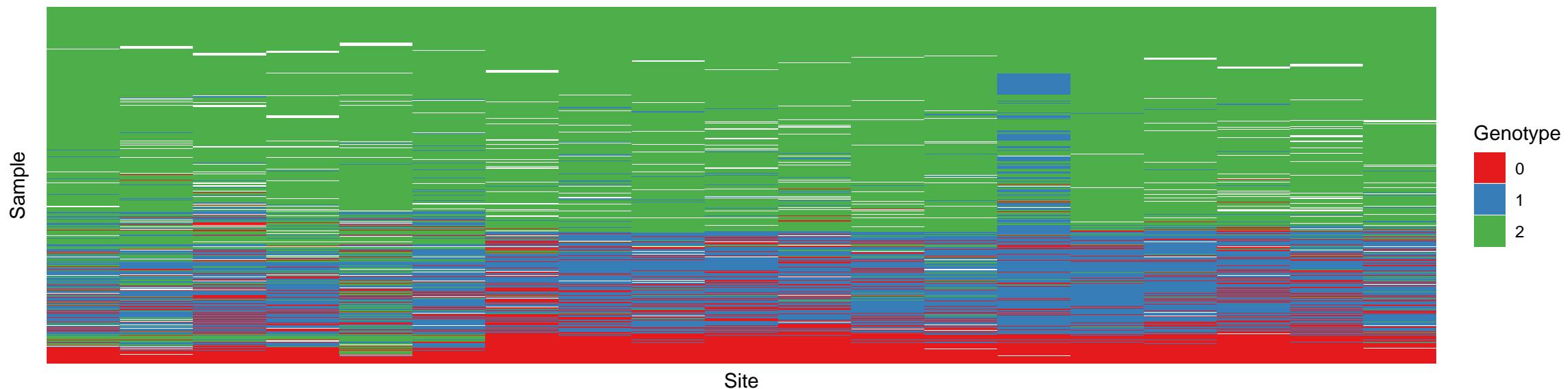
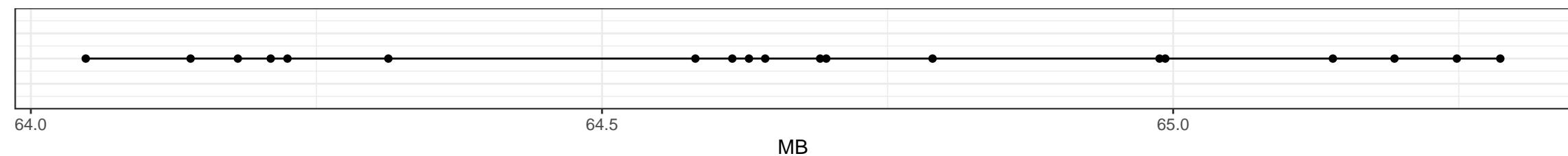


# Ha412HOChr16:64.048–65.286MB Size=1.238MB

2141\_0.43 BetweenSS = 0.954006070561485

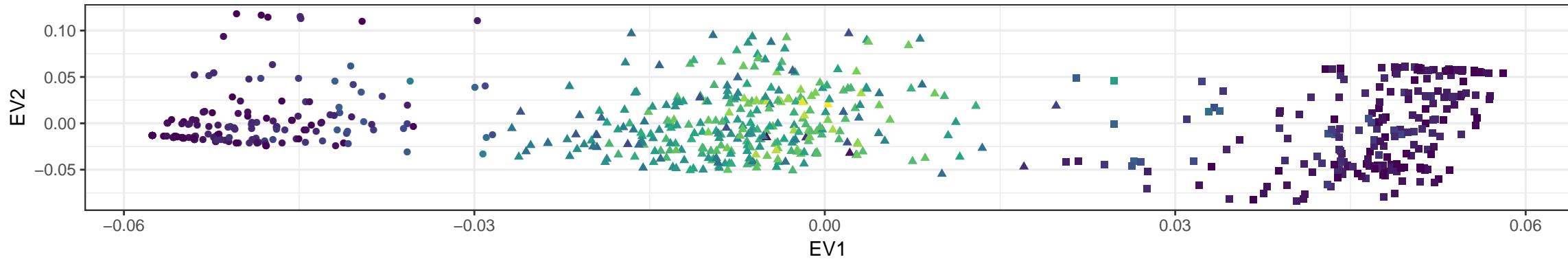


Ha412HOChr16

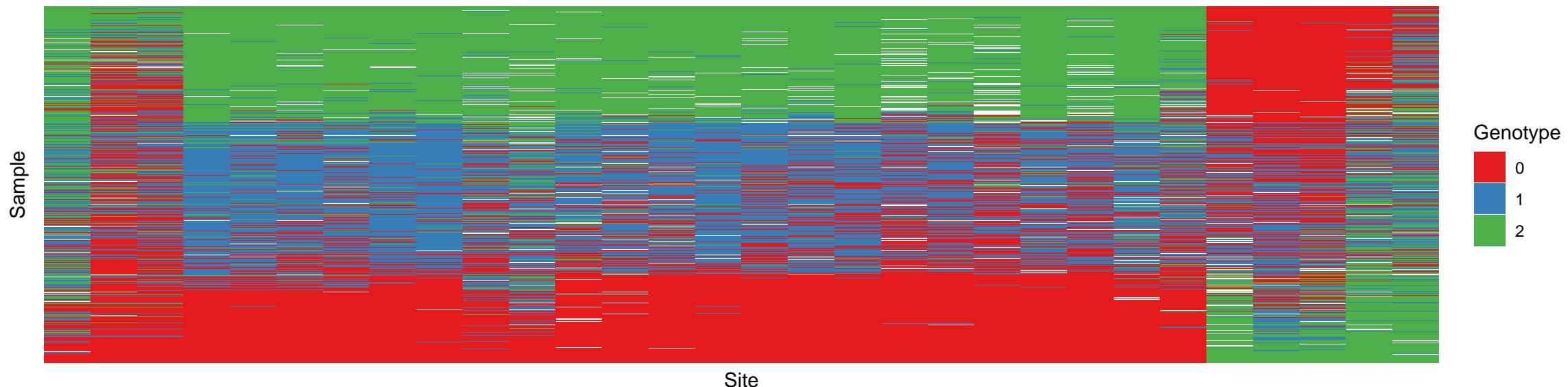


# Ha412HOChr10:120.361–121.586MB Size=1.226MB

3379\_0.22 BetweenSS = 0.959195225688578

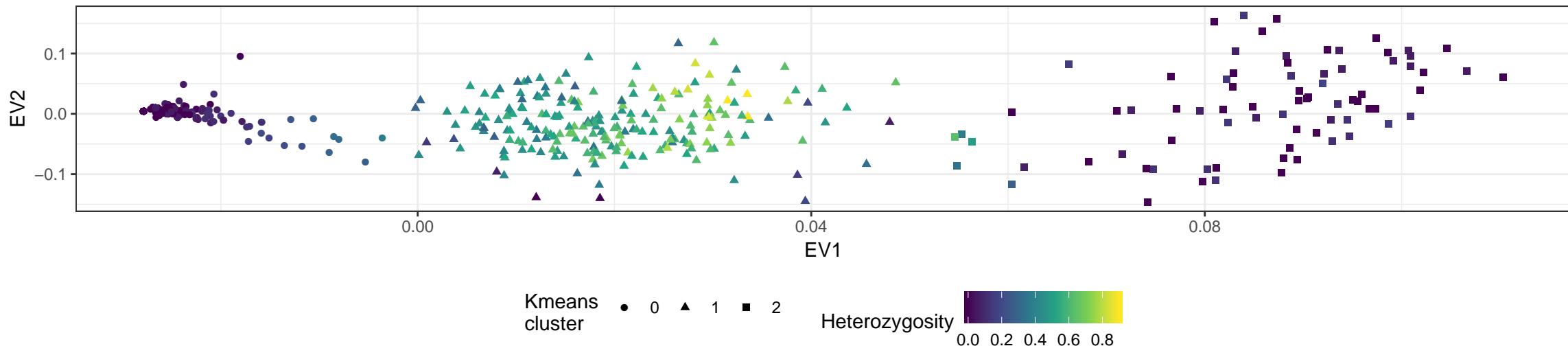


Ha412HOChr10

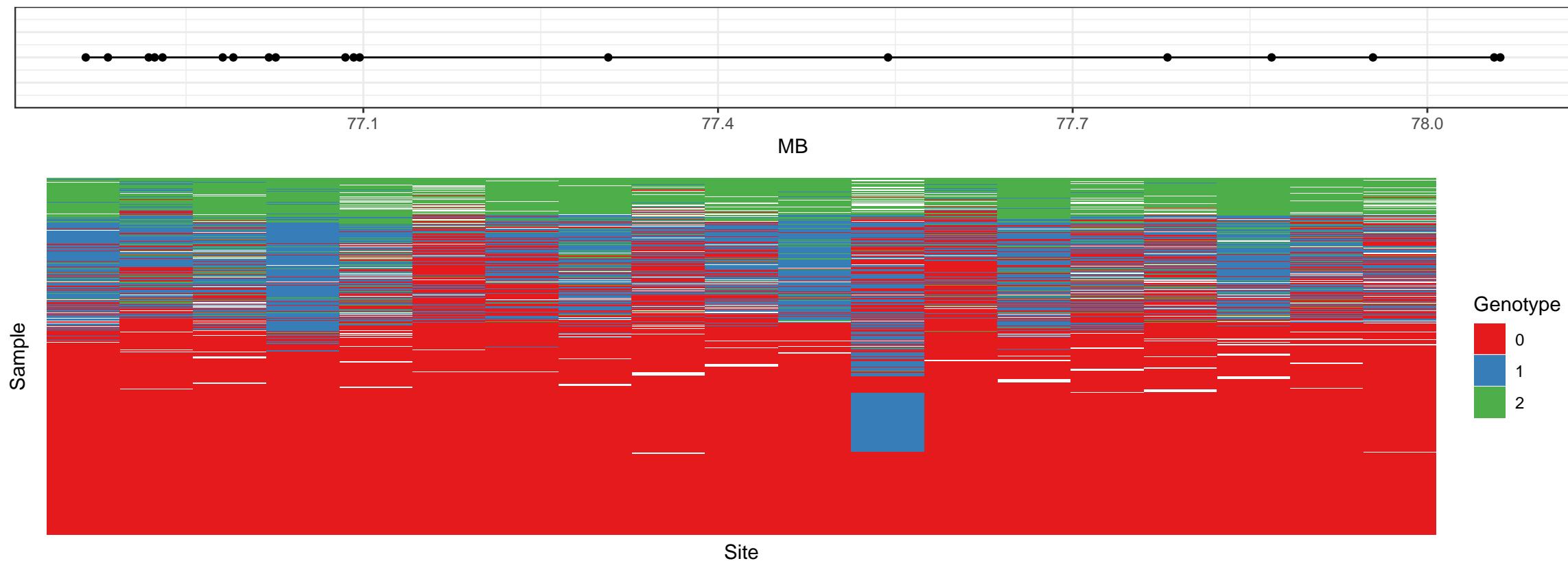


# Ha412HOChr08:76.865–78.062MB Size=1.196MB

2923\_0.17 BetweenSS = 0.961716275522138

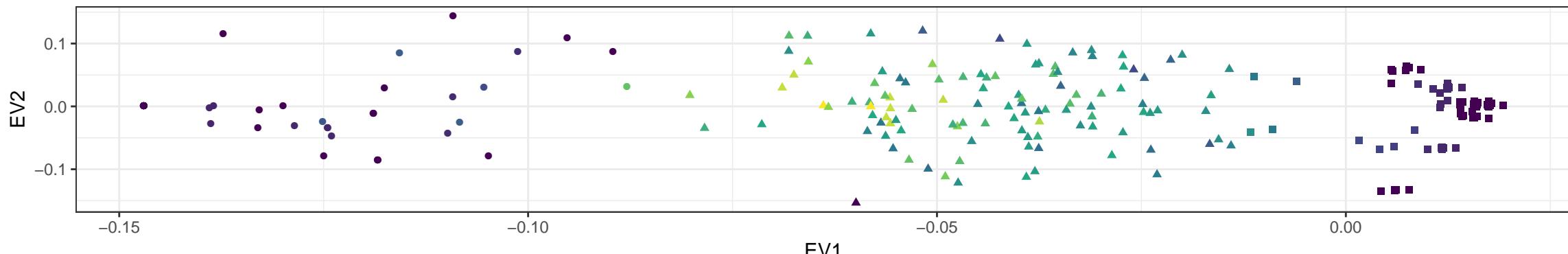


Ha412HOChr08

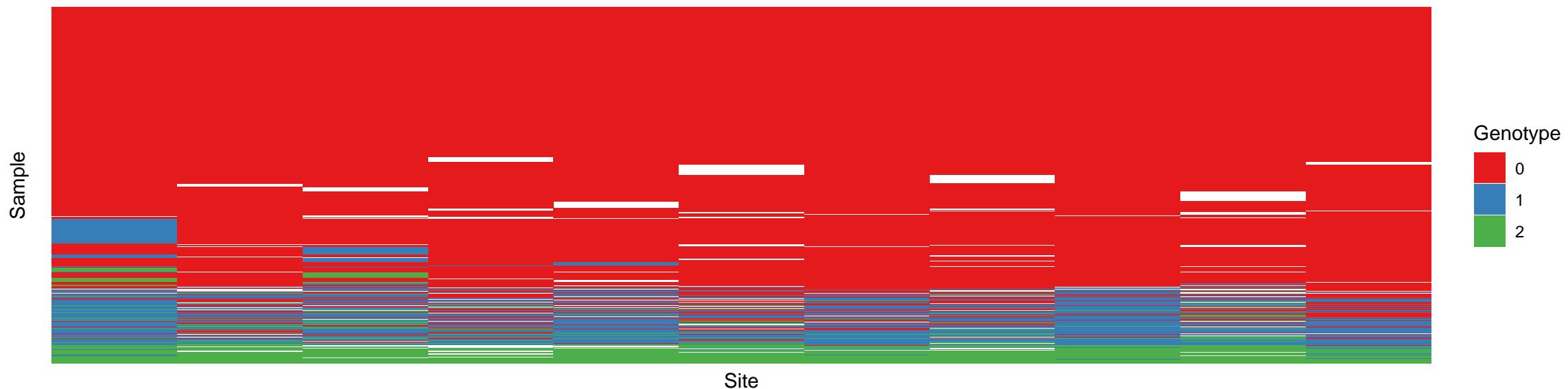
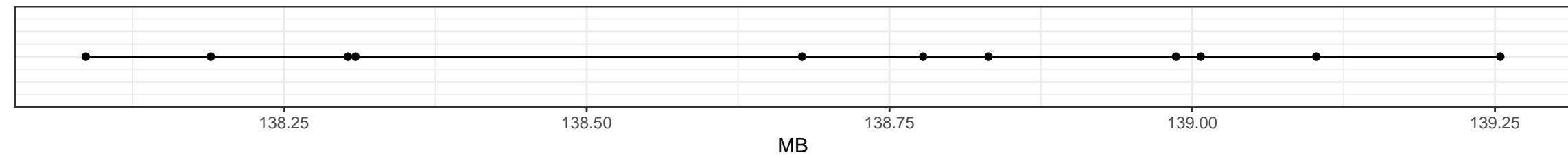


# Ha412HOChr08:138.086–139.254MB Size=1.168MB

1730\_0.44 BetweenSS = 0.955039752886305

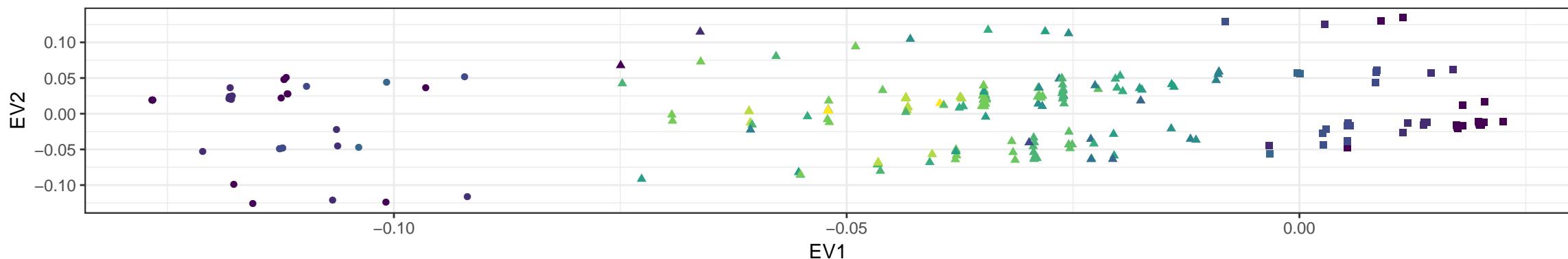


Ha412HOChr08

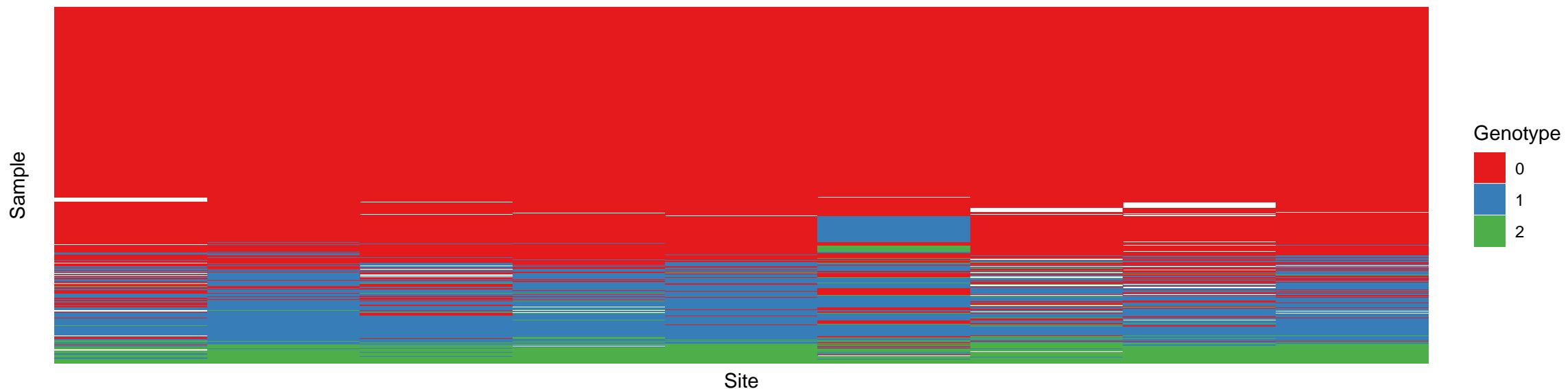


# Ha412HOChr12:159.829–160.975MB Size=1.147MB

2801\_0.36 BetweenSS = 0.953151239164412

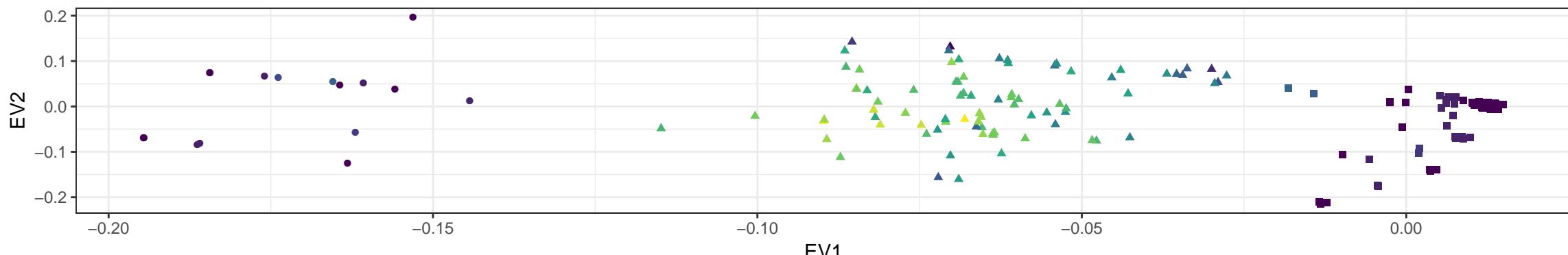


Ha412HOChr12

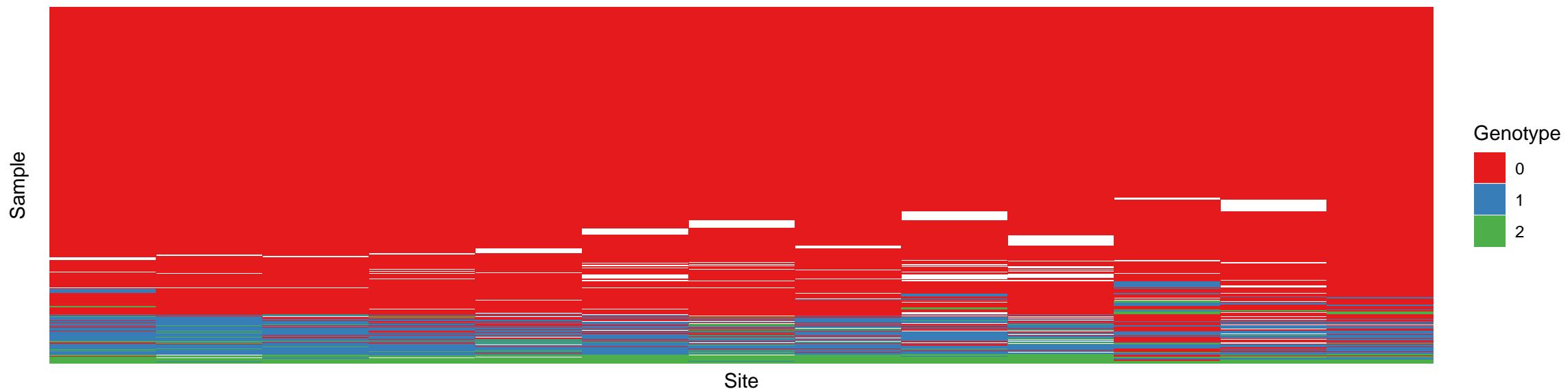
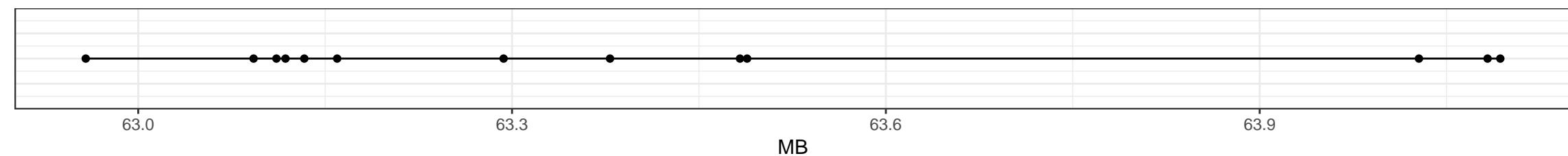


# Ha412HOChr14:62.958–64.093MB Size=1.135MB

1965\_0.34 BetweenSS = 0.961149024227998

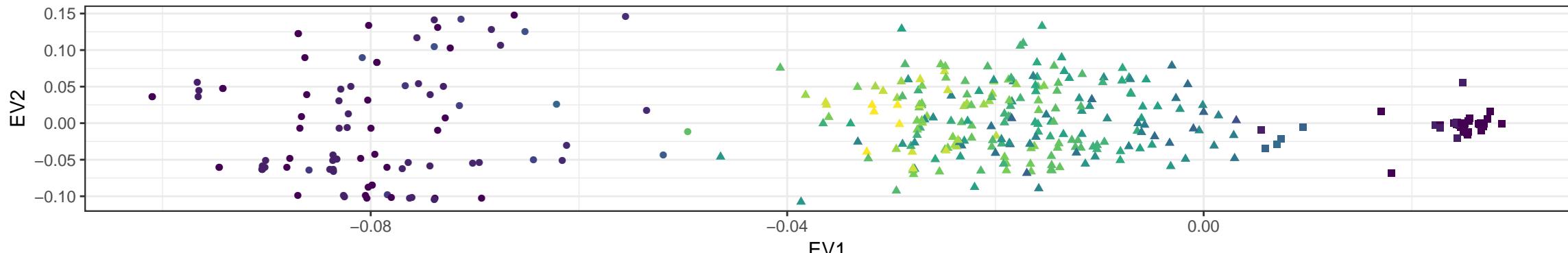


Ha412HOChr14

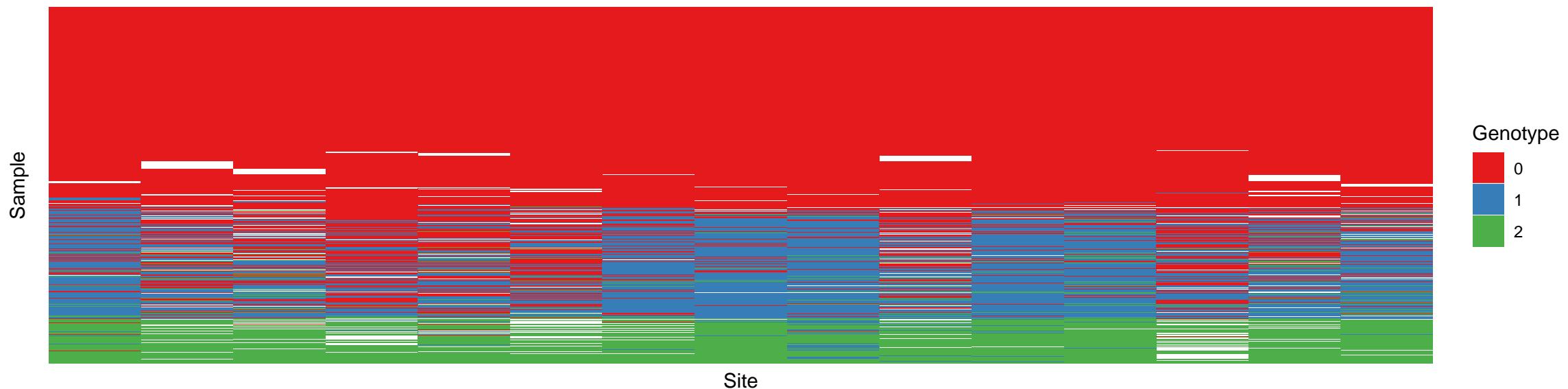


# Ha412HOChr12:120.196–121.312MB Size=1.117MB

1820\_0.57 BetweenSS = 0.968000820970656

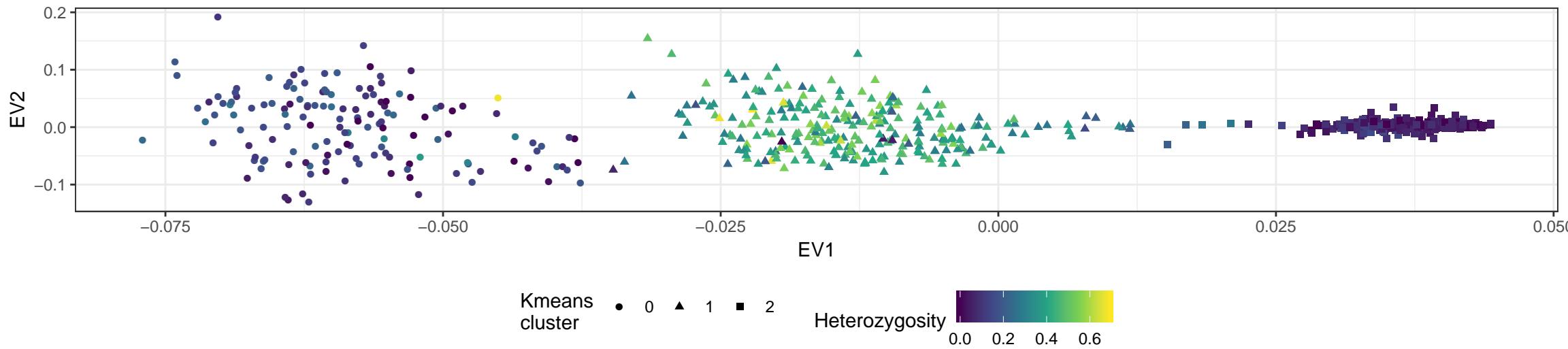


Ha412HOChr12

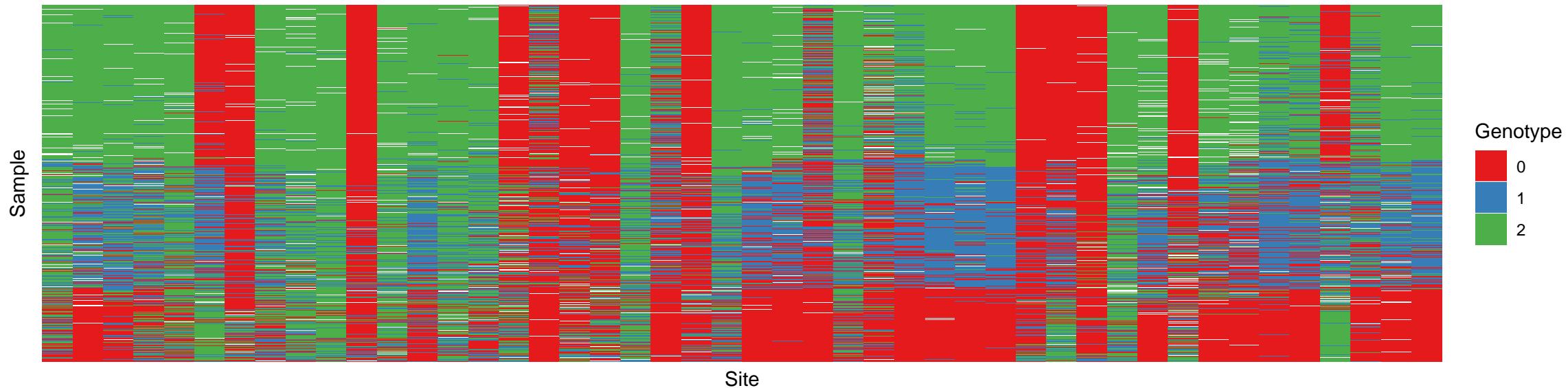


# Ha412HOChr10:187.878–188.92MB Size=1.042MB

3679\_0.15 BetweenSS = 0.963776641403869

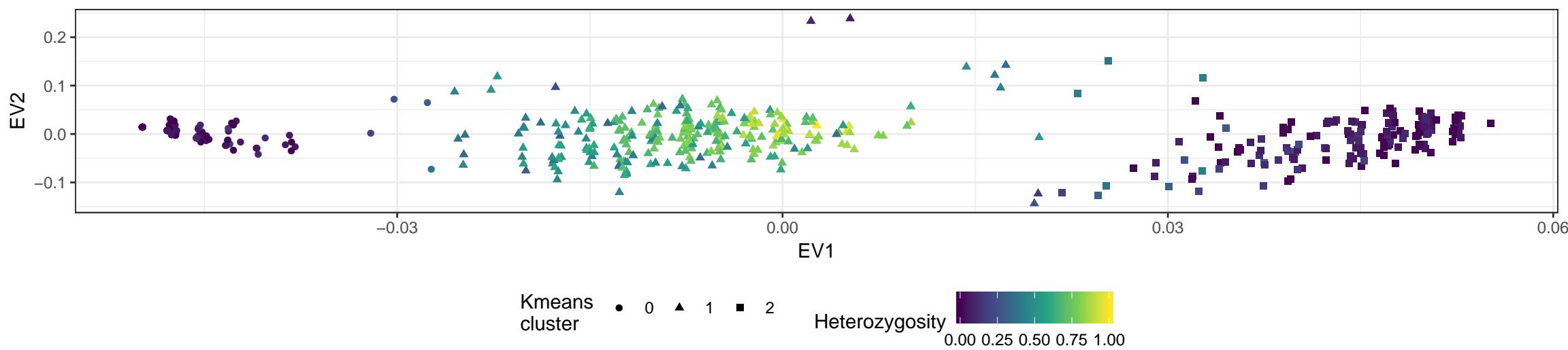


Ha412HOChr10

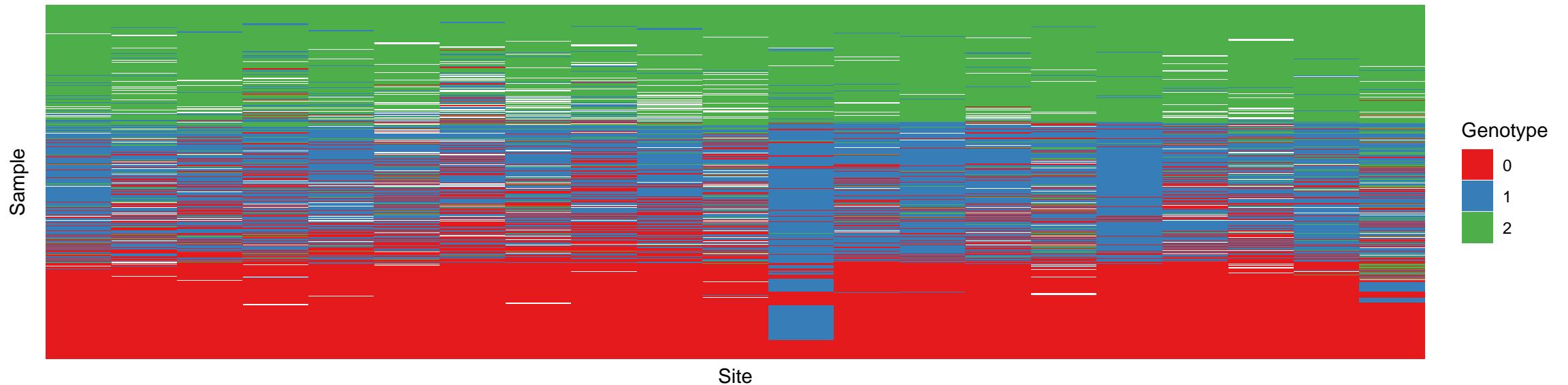
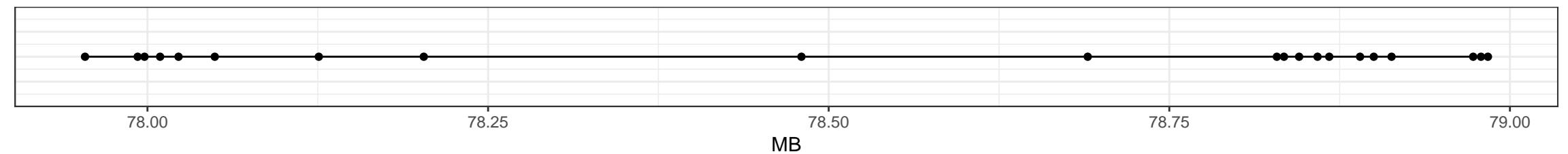


# Ha412HOChr03:77.954–78.984MB Size=1.03MB

951\_0.61 BetweenSS = 0.965509376614703

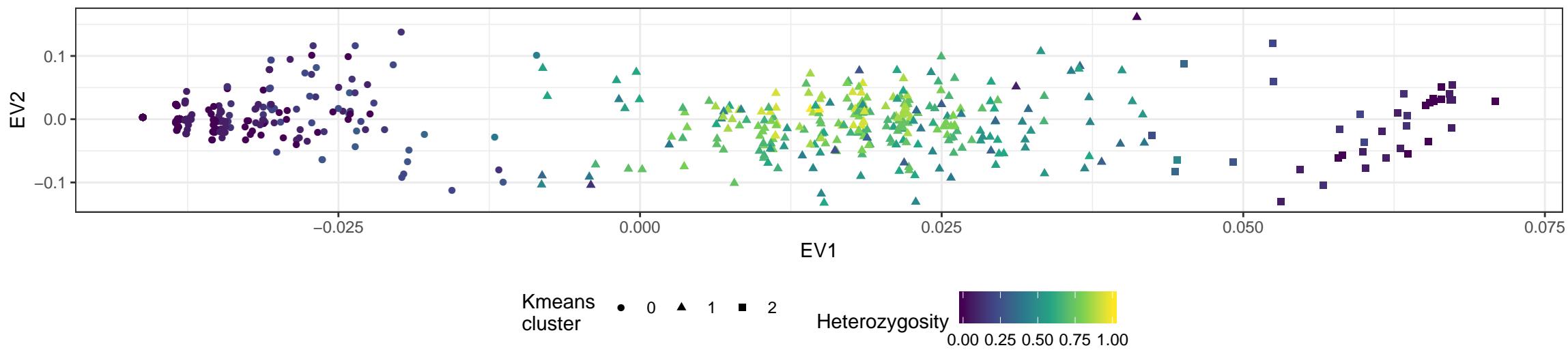


Ha412HOChr03

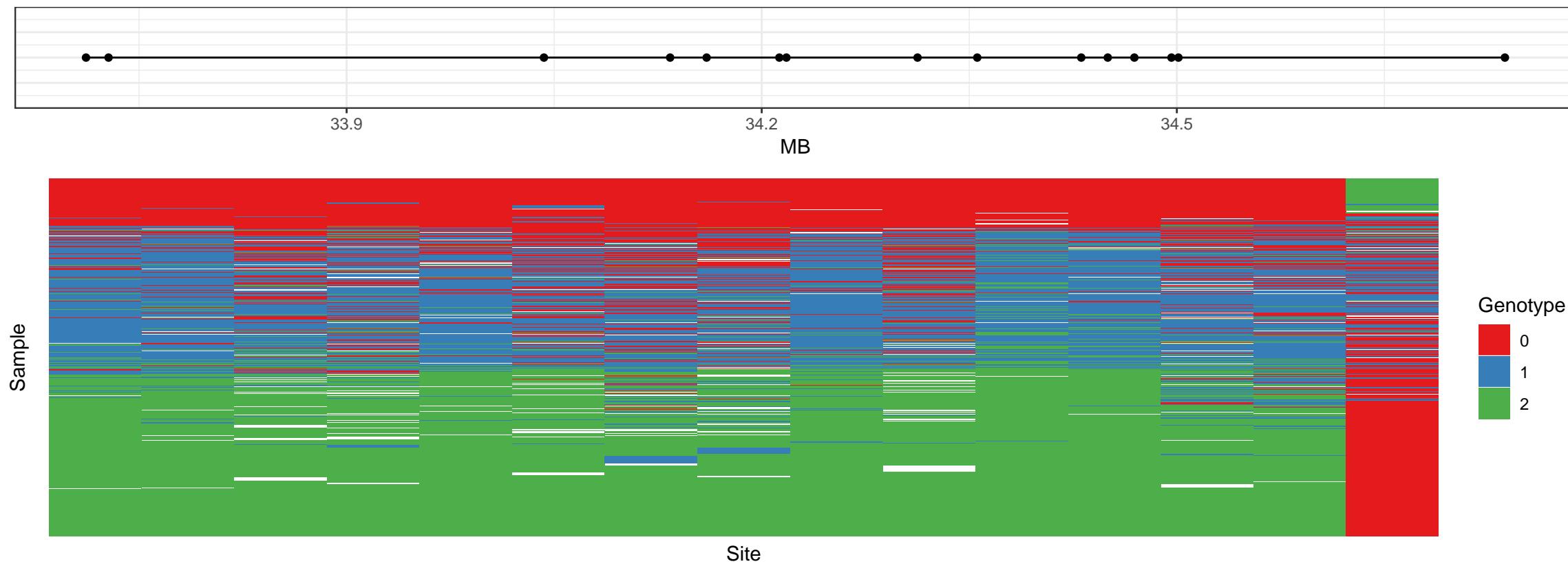


# Ha412HOChr07:33.712–34.737MB Size=1.025MB

1666\_0.48 BetweenSS = 0.957023075510256

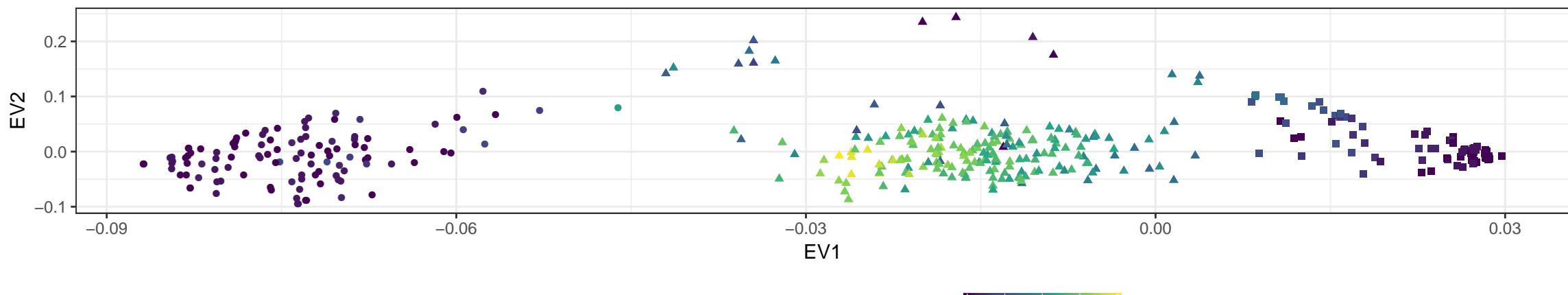


Ha412HOChr07

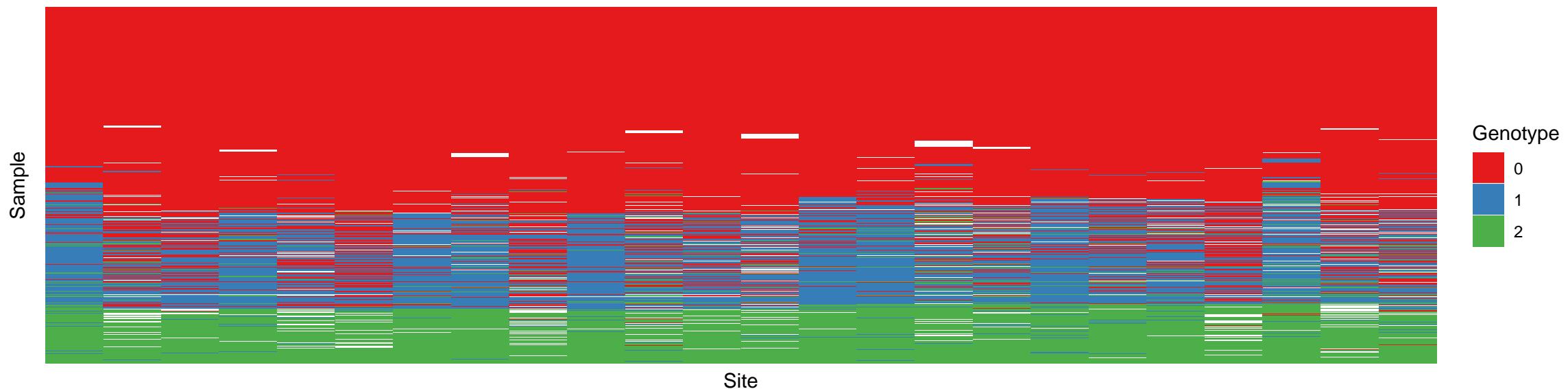
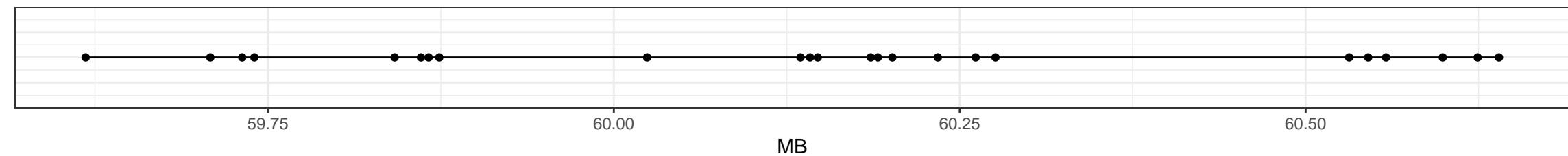


# Ha412HOChr10:59.618–60.64MB Size=1.021MB

691\_0.71 BetweenSS = 0.971953097868044

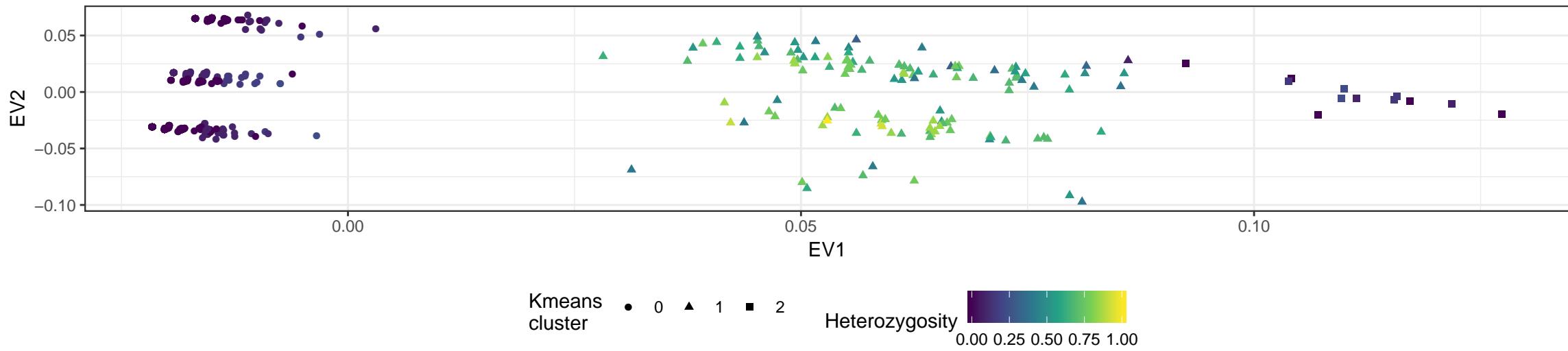


Ha412HOChr10

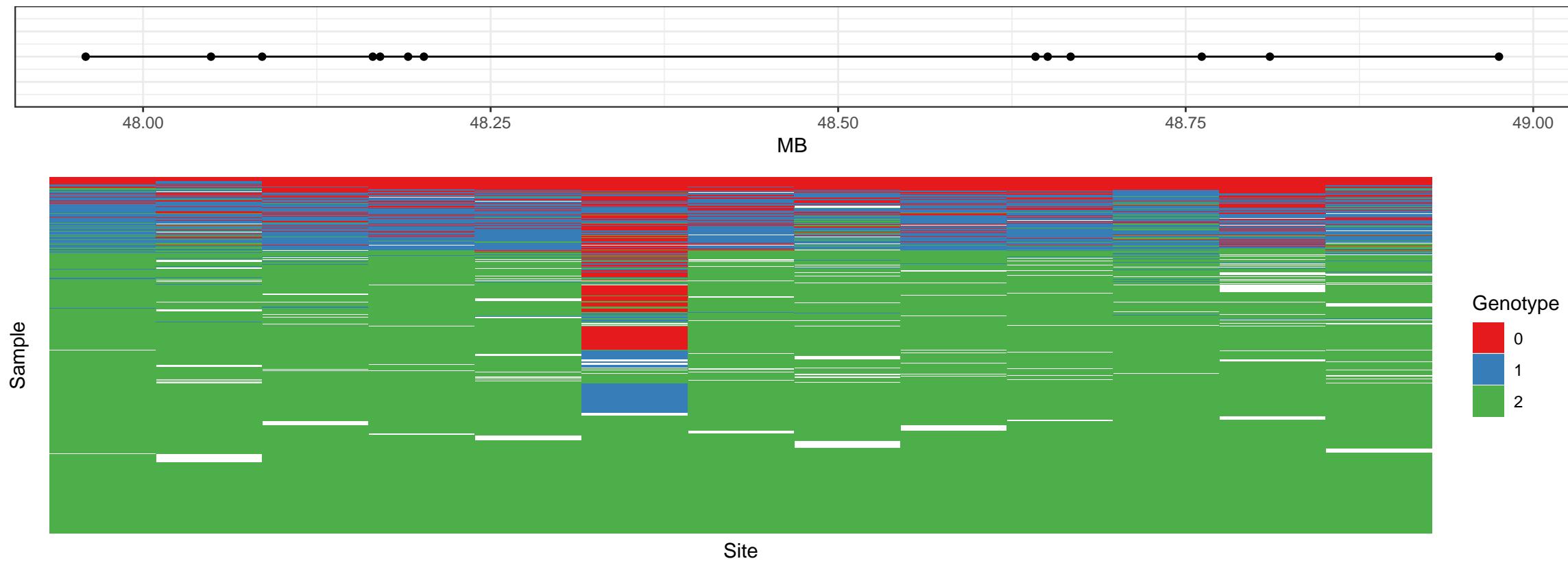


# Ha412HOChr03:47.959–48.975MB Size=1.017MB

2721\_0.23 BetweenSS = 0.972619070006556

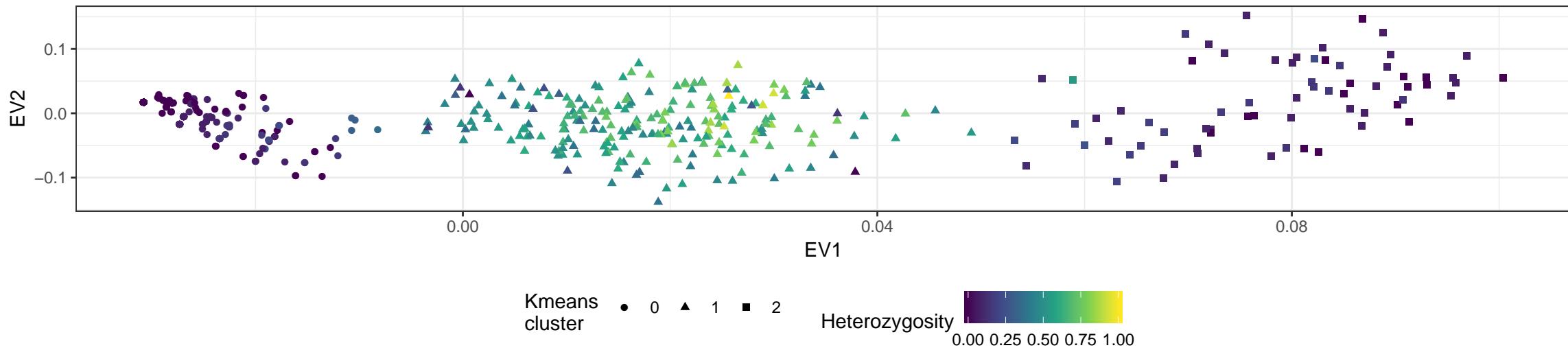


Ha412HOChr03



# Ha412HOChr01:47.505–48.509MB Size=1.004MB

1653\_0.39 BetweenSS = 0.956793998550477



Ha412HOChr01

