```
> library(HIV.db)
> library(Pviz)
> alignObj <- readAlign()</pre>
> refScale <- alignObj[[1]]</pre>
> refSeq <- alignObj[[2]]</pre>
> HIV_db <- loadFeatures(ref = "env")
> envBase <- getFeature(HIV_db)</pre>
> envStart = getHXB2Coordinates(envBase)[1, ][1]
> envEnd = getHXB2Coordinates(envBase)[1, ][2]
> proteins <- getFeature(HIV_db, category = "protein", start = envStart,
      end = envEnd, frame = getFrame(envBase))
> antis <- getEpitope(envBase, name = c("VRC01"))</pre>
> helix <- getChildren(envBase, category = c("helix"))</pre>
> rpext <- ProteinAxisTrack(littleTicks = TRUE)</pre>
> rpref <- ProteinAxisTrack(refScale = refScale, adNC = TRUE)
> sTrack <- SequenceTrack(refSeq)</pre>
> data(pepMicroarrayEx)
> p1Track <- ProbeTrack(pepMicroarrayEx$probeSeq, pepMicroarrayEx$probeFreq,</p>
      pepMicroarrayEx$probePos, protein = "gp120", name = "sequence(B)")
> a2Track <- ATrack(id = proteins@values@unlistData@listData[["name"]],</pre>
      start = start(proteins), end = end(proteins), genome = "hxb2",
      name = "Protein", protein = "gp120", fill = "navyblue", size = 1)
> a3Track <- ATrack(id = helix@values@unlistData@listData[["name"]],</pre>
      start = start(helix), end = end(helix), genome = "hxb2",
      name = "Helix", fill = "orange", protein = "gp120")
> a6Track <- ATrack(id = antis@values@unlistData@listData[["name"]],</pre>
      start = start(antis), end = end(antis), genome = "hxb2",
      name = "Epitopes", fill = "gray", protein = "gp120")
> data(pepExprEx)
> library(IRanges)
> d6Track <- DTrack(range = IRanges(start = pepExprEx$dPos, width = 1),</pre>
      groups = rownames(pepExprEx$dExpr), data = pepExprEx$dExpr,
      genome = "hxb2", protein = "gp120", col = c("orange", "gray"),
      cex = 1
> plotTracks(trackList = c(rpext, rpref, sTrack, a2Track, a3Track,
      a6Track, p1Track, d6Track), from = 1, to = 150, type = c("p",
      "smooth"), stacking = "dense", legend = TRUE, showFeatureId = TRUE)
```