Alignment AA

Paulyna Magana

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1 Gene Expression

1.1 Dependencies

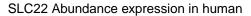
```
library(ggplot2)
library(readr)
library(devtools)
library(rmarkdown)
```

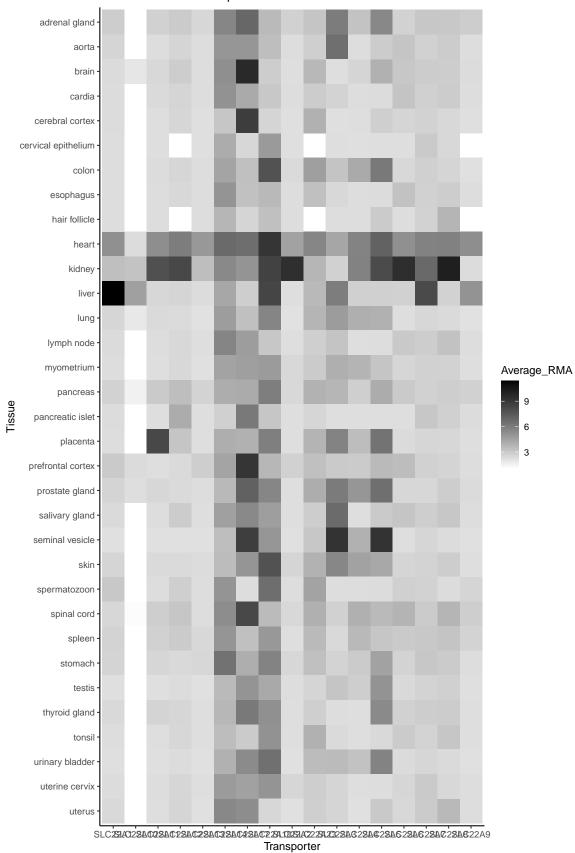
1.2 Import data

```
Transporters <-read_csv("data/ExpressionRMA.csv")
paged_table(Transporters)</pre>
```

2 Create plot

```
ggtitle(label = "SLC22 Abundance expression in human") +
scale_y_discrete(limits = rev(levels(as.factor(Transporters$Tissue)))) +
scale_x_discrete(limits = levels(as.factor(Transporters$Transporter))) +
theme_classic()
#print
print(gtrans)
```

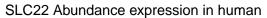


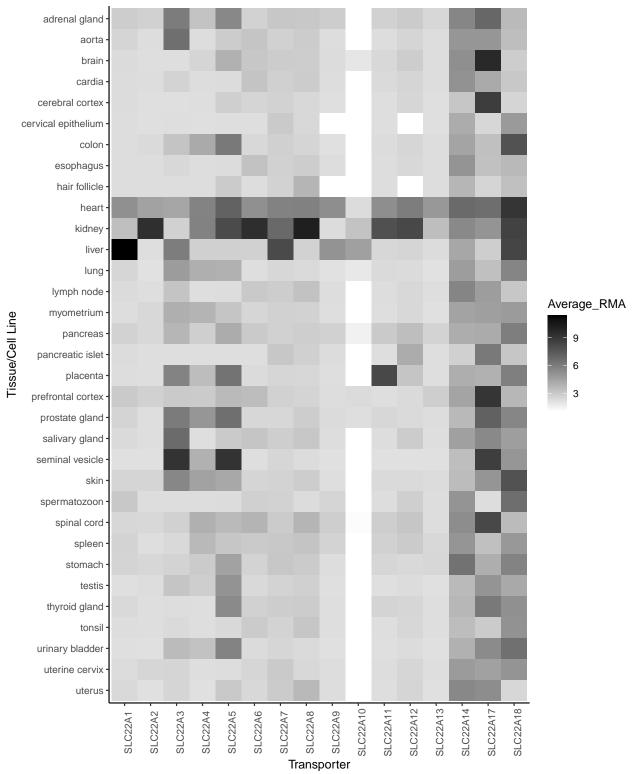


3 Improve plot

```
#display axis names and rotate x label to a 90 angle
gtrans + labs(x ="Transporter", y = "Tissue/Cell Line") +
   scale_x_discrete(limits = c("SLC22A1", "SLC22A2", "SLC22A3", "SLC22A4", "SLC22A5", "SLC22A6", "SLC2A6", "SLC
```

Warning: Removed 31 rows containing missing values (geom_tile).





4 Session info

session info()

```
- Session info -----
setting value
version R version 4.0.5 (2021-03-31)
         macOS Big Sur 10.16
         x86_64, darwin17.0
system
         X11
ui
language (EN)
collate en GB.UTF-8
ctype
         en_GB.UTF-8
tz
         Europe/London
         2022-04-02
date
         2.11.4 @ /Applications/RStudio.app/Contents/MacOS/pandoc/ (via rmarkdown)
pandoc
- Packages -----
! package
              * version date (UTC) lib source
  assertthat
                0.2.1
                       2019-03-21 [2] CRAN (R 4.0.2)
                4.0.4
                       2020-08-04 [2] CRAN (R 4.0.2)
  bit
                4.0.5
                      2020-08-30 [2] CRAN (R 4.0.2)
  bit64
  brio
               1.1.3 2021-11-30 [2] CRAN (R 4.0.2)
  cachem
                1.0.6
                       2021-08-19 [2] CRAN (R 4.0.2)
                       2021-04-20 [2] CRAN (R 4.0.2)
  callr
                3.7.0
                3.2.0 2022-02-14 [2] CRAN (R 4.0.5)
  cli
                2.0-3 2022-02-21 [2] CRAN (R 4.0.5)
  colorspace
                       2022-03-26 [2] CRAN (R 4.0.5)
  crayon
               1.5.1
  DBI
               1.1.2
                       2021-12-20 [2] CRAN (R 4.0.2)
  desc
               1.4.1
                       2022-03-06 [2] CRAN (R 4.0.5)
  devtools
              * 2.4.3
                       2021-11-30 [2] CRAN (R 4.0.2)
                0.6.29 2021-12-01 [2] CRAN (R 4.0.2)
  digest
                1.0.8
                       2022-02-08 [2] CRAN (R 4.0.5)
  dplyr
  ellipsis
                0.3.2
                       2021-04-29 [2] CRAN (R 4.0.2)
  evaluate
                0.15
                       2022-02-18 [2] CRAN (R 4.0.5)
                       2022-03-24 [2] CRAN (R 4.0.5)
  fansi
                1.0.3
                       2021-02-28 [2] CRAN (R 4.0.2)
  farver
                2.1.0
                       2021-01-25 [2] CRAN (R 4.0.2)
               1.1.0
  fastmap
                       2021-12-08 [2] CRAN (R 4.0.2)
                1.5.2
                       2022-01-31 [2] CRAN (R 4.0.5)
  generics
                0.1.2
P ggplot2
              * 3.3.5
                       2021-06-25 [?] CRAN (R 4.0.2)
                       2022-02-24 [2] CRAN (R 4.0.5)
  glue
                1.6.2
                0.3.0
                       2019-03-25 [2] CRAN (R 4.0.2)
  gtable
                       2021-04-16 [2] CRAN (R 4.0.2)
  highr
                0.9
  hms
                1.1.1
                       2021-09-26 [2] CRAN (R 4.0.2)
  htmltools
                0.5.2
                       2021-08-25 [2] CRAN (R 4.0.2)
                       2022-02-22 [2] CRAN (R 4.0.5)
  jsonlite
                1.8.0
  knitr
                1.38
                       2022-03-25 [2] CRAN (R 4.0.5)
  labeling
                0.4.2 2020-10-20 [2] CRAN (R 4.0.2)
  lifecycle
                1.0.1
                       2021-09-24 [2] CRAN (R 4.0.2)
                2.0.3
                       2022-03-30 [2] CRAN (R 4.0.5)
  magrittr
                2.0.1 2021-11-26 [2] CRAN (R 4.0.2)
  memoise
```

```
0.5.0
                       2018-06-12 [2] CRAN (R 4.0.2)
  munsell
 pillar
               1.7.0
                       2022-02-01 [2] CRAN (R 4.0.5)
                       2021-12-20 [2] CRAN (R 4.0.2)
 pkgbuild
               1.3.1
               2.0.3 2019-09-22 [2] CRAN (R 4.0.2)
 pkgconfig
 pkgload
               1.2.4 2021-11-30 [2] CRAN (R 4.0.2)
 prettyunits 1.1.1 2020-01-24 [2] CRAN (R 4.0.2)
 processx
               3.5.3
                       2022-03-25 [2] CRAN (R 4.0.5)
                       2021-02-28 [2] CRAN (R 4.0.2)
               1.6.0
 ps
  purrr
               0.3.4
                       2020-04-17 [2] CRAN (R 4.0.2)
 R6
               2.5.1
                       2021-08-19 [2] CRAN (R 4.0.2)
P readr
             * 2.1.2
                       2022-01-30 [?] CRAN (R 4.0.5)
                       2021-11-30 [2] CRAN (R 4.0.2)
               2.4.2
  remotes
               1.0.2 2022-03-04 [2] CRAN (R 4.0.5)
  rlang
  rmarkdown
            * 2.13
                       2022-03-10 [2] CRAN (R 4.0.5)
               2.0.2
                       2020-11-15 [2] CRAN (R 4.0.2)
 rprojroot
  rstudioapi
               0.13
                       2020-11-12 [2] CRAN (R 4.0.2)
  scales
               1.1.1
                       2020-05-11 [2] CRAN (R 4.0.2)
                       2021-12-06 [2] CRAN (R 4.0.2)
  sessioninfo 1.2.2
               1.7.6
                       2021-11-29 [2] CRAN (R 4.0.2)
 stringi
               1.4.0 2019-02-10 [?] CRAN (R 4.0.2)
P stringr
 testthat
               3.1.3 2022-03-29 [2] CRAN (R 4.0.5)
  tibble
               3.1.6 2021-11-07 [2] CRAN (R 4.0.2)
                       2022-02-21 [2] CRAN (R 4.0.5)
  tidyselect
               1.1.2
  tzdb
               0.3.0
                       2022-03-28 [2] CRAN (R 4.0.5)
             * 2.1.5
                       2021-12-09 [2] CRAN (R 4.0.2)
  usethis
 utf8
              1.2.2
                       2021-07-24 [2] CRAN (R 4.0.2)
               0.4.0
                       2022-03-30 [2] CRAN (R 4.0.5)
  vctrs
               1.5.7
                       2021-11-30 [2] CRAN (R 4.0.2)
  vroom
                       2022-03-03 [2] CRAN (R 4.0.5)
               2.5.0
  withr
                       2022-03-02 [2] CRAN (R 4.0.5)
 xfun
               0.30
                       2022-02-21 [2] CRAN (R 4.0.5)
  yaml
               2.3.5
```

- [1] /Users/paulyna/Documents/Github/Gene Analysis/renv/library/R-4.0/x86_64-apple-darwin17.0
- [2] /Library/Frameworks/R.framework/Versions/4.0/Resources/library
- P -- Loaded and on-disk path mismatch.
