

Alignment AA

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1 Gene Expression

1.1 Dependencies

```
library(ggplot2)
library(readr)
```

```
## Warning: package 'readr' was built under R version 4.1.2
```

```
library(devtools)
```

```
## Warning: package 'devtools' was built under R version 4.1.2
```

```
## Warning: package 'usethis' was built under R version 4.1.2
```

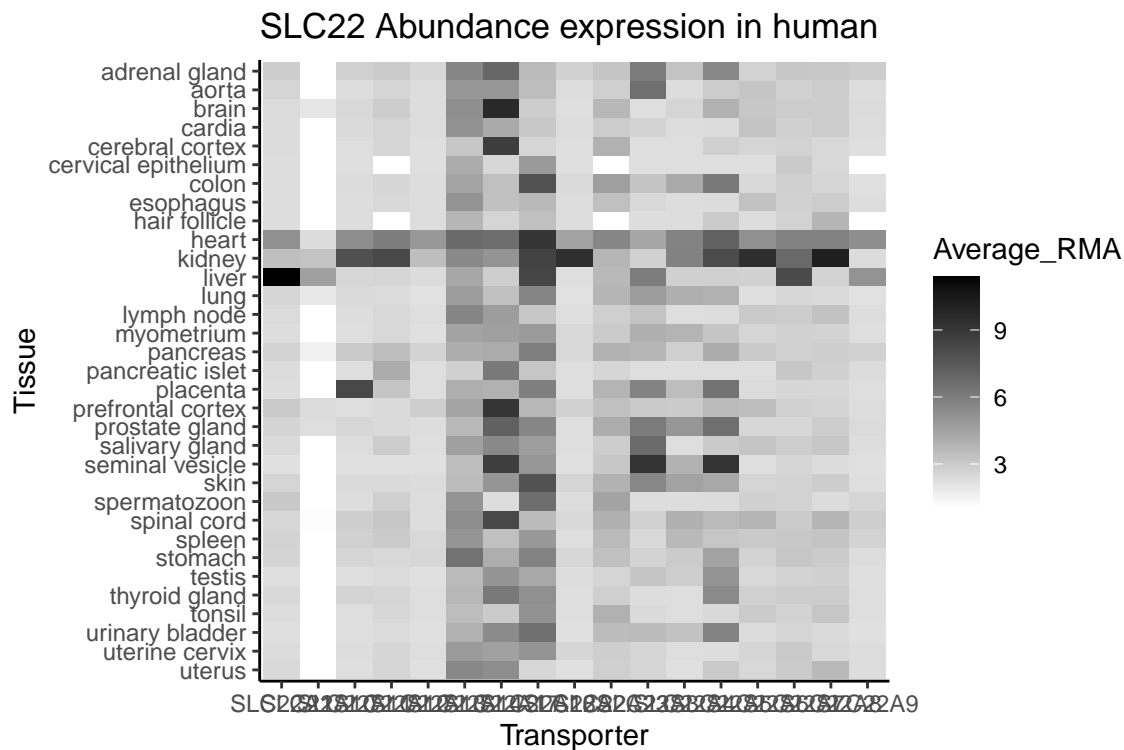
```
library(rmarkdown)
```

1.2 Import data

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

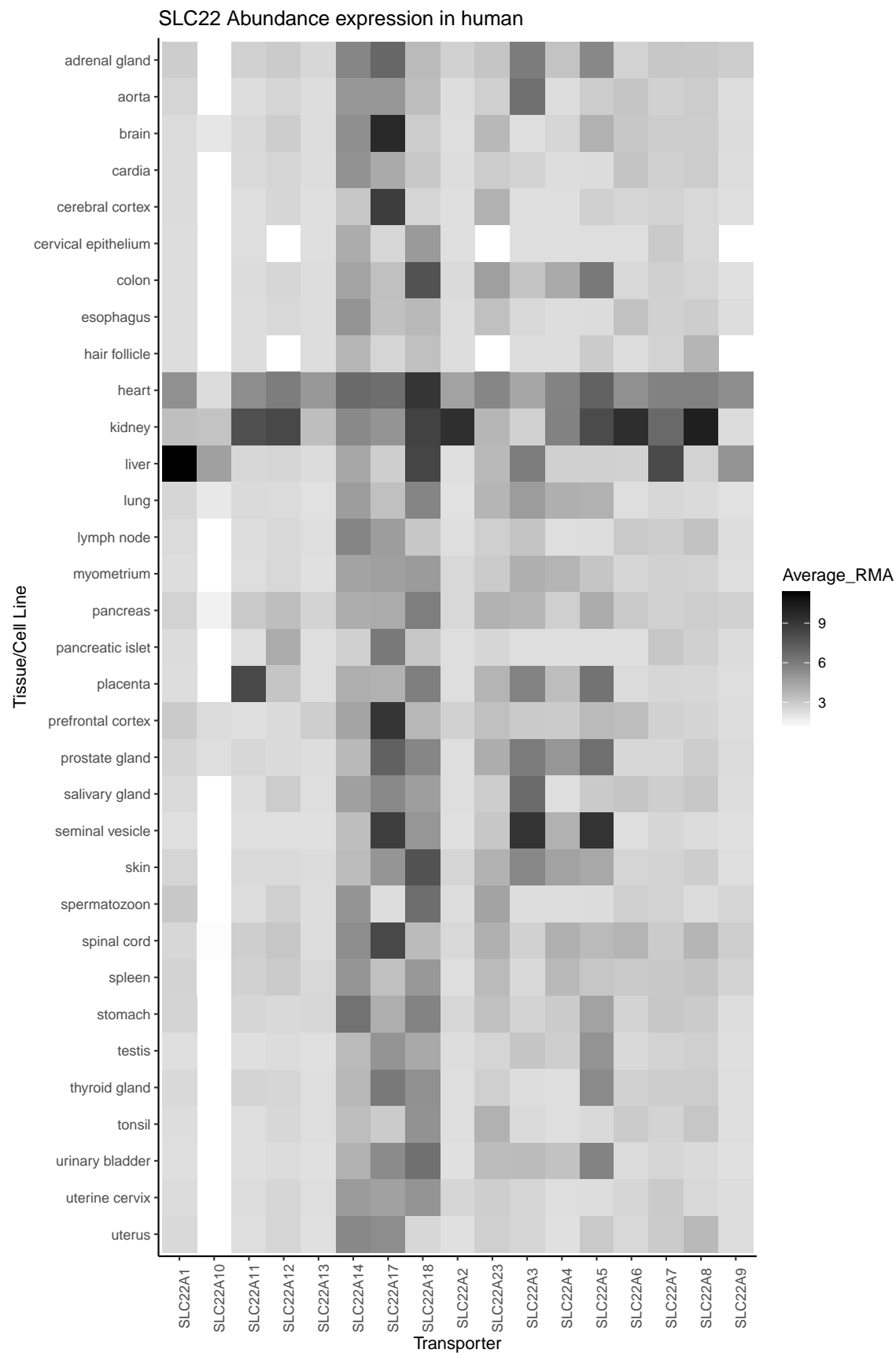
2 Create plot

```
gtrans <- ggplot(Transporters, aes(Transporter, Tissue, fill= Average_RMA)) +
  geom_tile() +
  scale_fill_gradient(low="white", high="black") +
  theme(strip.placement = "outside",
        plot.title = element_text(hjust = 0.5)) +
  ggtitle(label = "SLC22 Abundance expression in human") +
  scale_y_discrete(limits = rev(levels(as.factor(Transporters$Tissue)))) +
  theme_classic()
print(gtrans)
```



3 Improve plot

```
#display axis names and rotate x label to a 90 angle
gtrans+labs(x = "Transporter", y = "Tissue/Cell Line") + theme(axis.text.x = element_text(angle=90))
```



4 Session info

```
session_info()
```

```
## - Session info -----
## setting value
## version R version 4.1.1 (2021-08-10)
## os      Windows 10 x64 (build 18363)
## system  x86_64, mingw32
## ui      RTerm
## language (EN)
## collate English_United Kingdom.1252
## ctype   English_United Kingdom.1252
## tz      Europe/London
## date    2022-03-01
## pandoc  2.17.1.1 @ C:/Program Files/RStudio/bin/quarto/bin/ (via rmarkdown)
##
## - Packages -----
## package      * version date (UTC) lib source
## assertthat    0.2.1   2019-03-21 [1] CRAN (R 4.1.1)
## bit           4.0.4   2020-08-04 [1] CRAN (R 4.1.1)
## bit64         4.0.5   2020-08-30 [1] CRAN (R 4.1.1)
## brio          1.1.3   2021-11-30 [1] CRAN (R 4.1.2)
## cachem        1.0.6   2021-08-19 [1] CRAN (R 4.1.1)
## callr         3.7.0   2021-04-20 [1] CRAN (R 4.1.1)
## cli           3.2.0   2022-02-14 [1] CRAN (R 4.1.2)
## colorspace    2.0-3   2022-02-21 [1] CRAN (R 4.1.2)
## crayon        1.5.0   2022-02-14 [1] CRAN (R 4.1.2)
## DBI           1.1.2   2021-12-20 [1] CRAN (R 4.1.2)
## desc          1.4.0   2021-09-28 [1] CRAN (R 4.1.1)
## devtools      * 2.4.3   2021-11-30 [1] CRAN (R 4.1.2)
## digest        0.6.28  2021-09-23 [1] CRAN (R 4.1.1)
## dplyr         1.0.8   2022-02-08 [1] CRAN (R 4.1.2)
## ellipsis      0.3.2   2021-04-29 [1] CRAN (R 4.1.1)
## evaluate      0.15    2022-02-18 [1] CRAN (R 4.1.2)
## fansi         1.0.2   2022-01-14 [1] CRAN (R 4.1.2)
## farver        2.1.0   2021-02-28 [1] CRAN (R 4.1.1)
## fastmap       1.1.0   2021-01-25 [1] CRAN (R 4.1.1)
## fs            1.5.2   2021-12-08 [1] CRAN (R 4.1.2)
## generics      0.1.2   2022-01-31 [1] CRAN (R 4.1.2)
## ggplot2       * 3.3.5   2021-06-25 [1] CRAN (R 4.1.1)
## glue          1.6.2   2022-02-24 [1] CRAN (R 4.1.2)
## gtable        0.3.0   2019-03-25 [1] CRAN (R 4.1.1)
## highr         0.9     2021-04-16 [1] CRAN (R 4.1.1)
## hms           1.1.1   2021-09-26 [1] CRAN (R 4.1.1)
## htmltools     0.5.2   2021-08-25 [1] CRAN (R 4.1.1)
## jsonlite      1.8.0   2022-02-22 [1] CRAN (R 4.1.2)
## knitr         1.37    2021-12-16 [1] CRAN (R 4.1.2)
## labeling      0.4.2   2020-10-20 [1] CRAN (R 4.1.1)
## lifecycle     1.0.1   2021-09-24 [1] CRAN (R 4.1.1)
## magrittr      2.0.2   2022-01-26 [1] CRAN (R 4.1.2)
## memoise       2.0.1   2021-11-26 [1] CRAN (R 4.1.2)
```

```
## munsell      0.5.0    2018-06-12 [1] CRAN (R 4.1.1)
## pillar      1.7.0    2022-02-01 [1] CRAN (R 4.1.2)
## pkgbuild    1.3.1    2021-12-20 [1] CRAN (R 4.1.2)
## pkgconfig   2.0.3    2019-09-22 [1] CRAN (R 4.1.1)
## pkgload     1.2.4    2021-11-30 [1] CRAN (R 4.1.2)
## prettyunits 1.1.1    2020-01-24 [1] CRAN (R 4.1.1)
## processx    3.5.2    2021-04-30 [1] CRAN (R 4.1.1)
## ps          1.6.0    2021-02-28 [1] CRAN (R 4.1.1)
## purrr       0.3.4    2020-04-17 [1] CRAN (R 4.1.1)
## R6          2.5.1    2021-08-19 [1] CRAN (R 4.1.1)
## readr       * 2.1.2    2022-01-30 [1] CRAN (R 4.1.2)
## remotes     2.4.2    2021-11-30 [1] CRAN (R 4.1.2)
## rlang       1.0.1    2022-02-03 [1] CRAN (R 4.1.2)
## rmarkdown   * 2.11     2021-09-14 [1] CRAN (R 4.1.1)
## rprojroot   2.0.2    2020-11-15 [1] CRAN (R 4.1.1)
## rstudioapi  0.13     2020-11-12 [1] CRAN (R 4.1.1)
## scales      1.1.1    2020-05-11 [1] CRAN (R 4.1.1)
## sessioninfo 1.2.2    2021-12-06 [1] CRAN (R 4.1.2)
## stringi     1.7.6    2021-11-29 [1] CRAN (R 4.1.2)
## stringr     1.4.0    2019-02-10 [1] CRAN (R 4.1.1)
## testthat    3.1.2    2022-01-20 [1] CRAN (R 4.1.2)
## tibble      3.1.6    2021-11-07 [1] CRAN (R 4.1.2)
## tidyselect  1.1.2    2022-02-21 [1] CRAN (R 4.1.2)
## tzdb        0.2.0    2021-10-27 [1] CRAN (R 4.1.2)
## usethis     * 2.1.5    2021-12-09 [1] CRAN (R 4.1.2)
## utf8        1.2.2    2021-07-24 [1] CRAN (R 4.1.1)
## vctrs       0.3.8    2021-04-29 [1] CRAN (R 4.1.1)
## vroom       1.5.7    2021-11-30 [1] CRAN (R 4.1.2)
## withr       2.4.3    2021-11-30 [1] CRAN (R 4.1.2)
## xfun        0.29     2021-12-14 [1] CRAN (R 4.1.2)
## yaml        2.3.5    2022-02-21 [1] CRAN (R 4.1.2)
```

```
##
## [1] C:/Users/paxpm8/Documents/R/win-library/4.1
## [2] C:/Program Files/R/R-4.1.1/library
```

```
##
```

```
## -----
```