

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
```

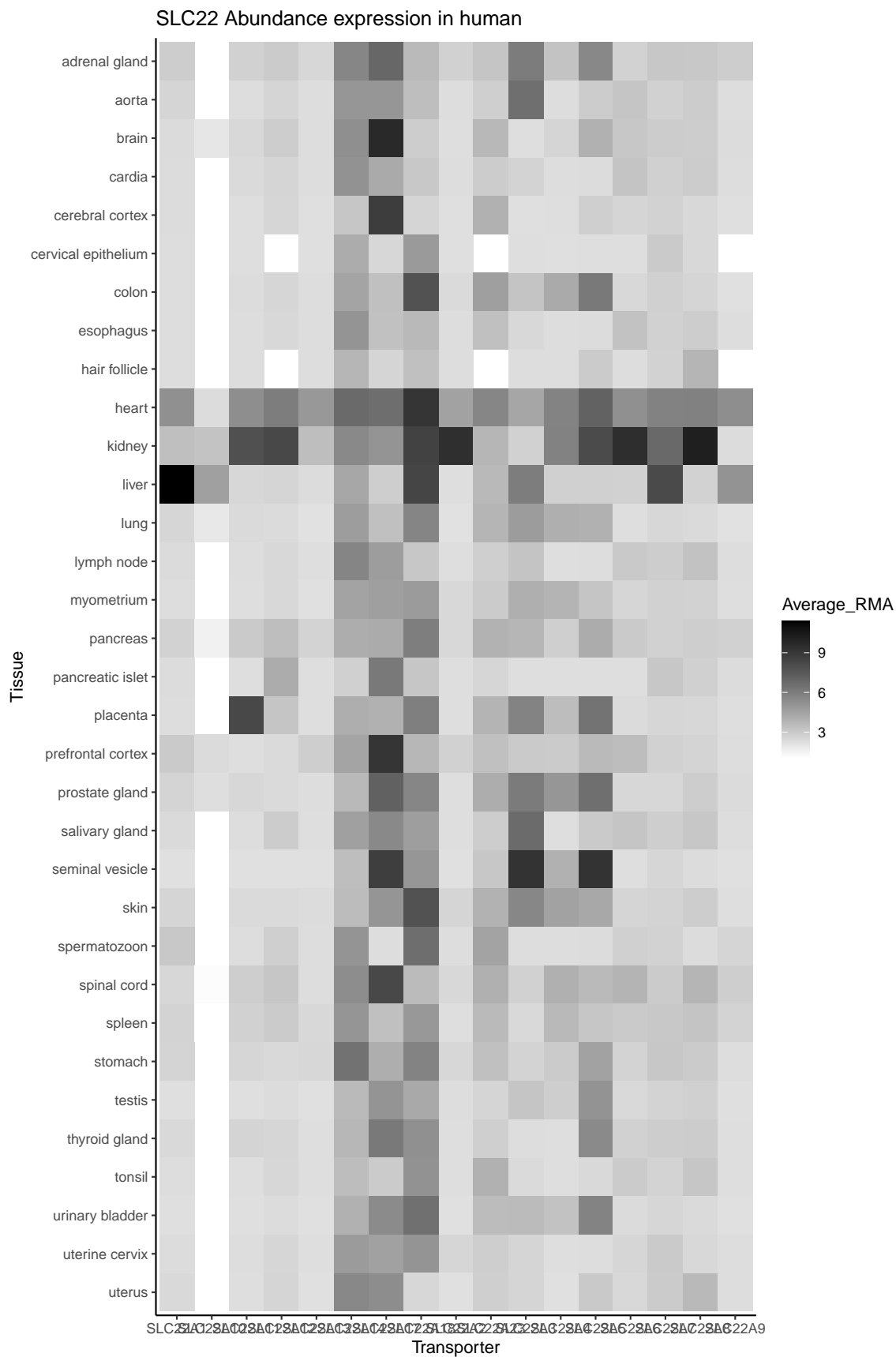
```
library(rmarkdown)
```

1.2 Import data

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

2 Create plot

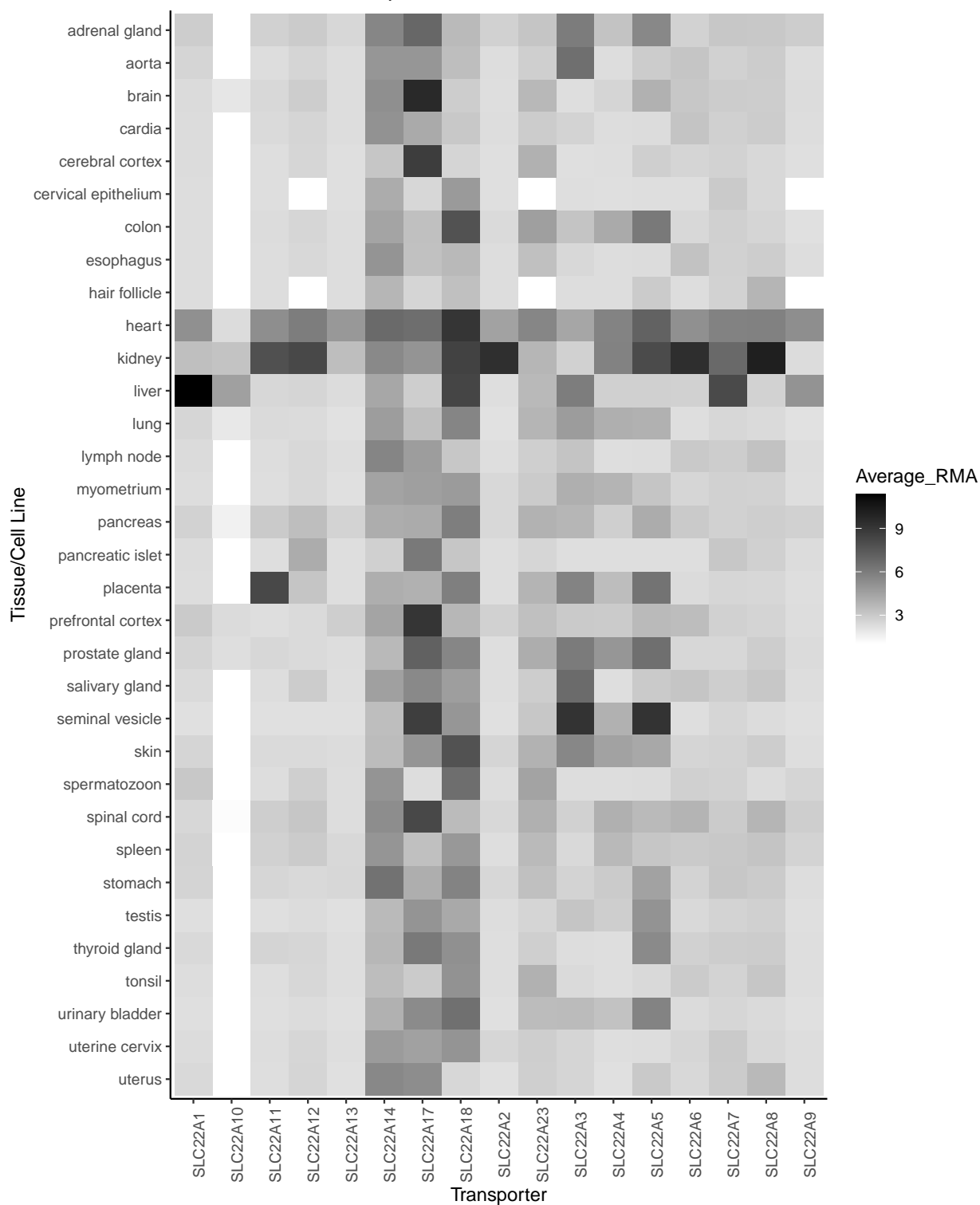
```
gtrans <- ggplot(Transporters, aes(Transporter, Tissue, fill= Average_RMA)) +  
  geom_tile() +  
  scale_fill_gradient(low="white", high="black") +  
  theme(strip.placement = "outside",  
        plot.title = element_text(hjust = 0.5)) +  
  ggtitle(label = "SLC22 Abundance expression in human")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

SLC22 Abundance expression in human



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
```

```
##
```

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