

rTRMui: a shiny user interface for the identification of transcriptional regulatory modules

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1 Introduction

To install rTRMui you need to have installed rTRM and shiny. To use rTRMui load the library and then just run `runTRM()` from the R prompt:

```
> library(rTRMui)
> runTRM()
```

This will open a web browser and show the rTRMui home page (Figure 1). Instructions on how to use rTRMui are available in the *Help* tab from the rTRMui server. Example datasets can be downloaded from the home page and used with the *Tutorial*.

2 System information

```
> sessionInfo()
```

```
R version 3.3.1 (2016-06-21)
Platform: x86_64-pc-linux-gnu (64-bit)
Running under: Ubuntu 16.04.1 LTS
```

```
locale:
```

```
[1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
[3] LC_TIME=en_US.UTF-8      LC_COLLATE=C
[5] LC_MONETARY=en_US.UTF-8  LC_MESSAGES=en_US.UTF-8
[7] LC_PAPER=en_US.UTF-8     LC_NAME=C
[9] LC_ADDRESS=C             LC_TELEPHONE=C
[11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
```

```
attached base packages:
```

```
[1] stats      graphics  grDevices  utils      datasets  methods    base
```

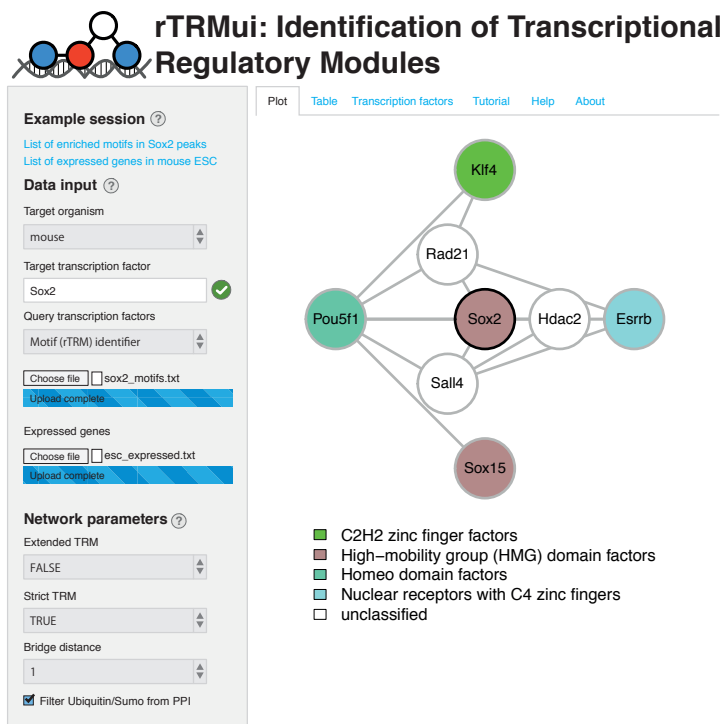


Figure 1: rTRMui home page showing the TRM identified using the sample datasets from the tutorial.

other attached packages:

```
[1] rTRMui_1.12.0
```

loaded via a namespace (and not attached):

```
[1] Rcpp_0.12.7           GenomeInfoDb_1.10.0
[3] XVector_0.14.0       MotifDb_1.16.0
[5] bitops_1.0-6         tools_3.3.1
[7] zlibbioc_1.20.0     digest_0.6.10
[9] RSQLite_1.0.0        lattice_0.20-34
[11] Matrix_1.2-7.1      igraph_1.0.1
[13] shiny_0.14.1        DBI_0.5-1
[15] parallel_3.3.1      rtracklayer_1.34.0
[17] org.Mm.eg.db_3.4.0  Biobase_2.42.0
[19] S4Vectors_0.12.0    IRanges_2.8.0
[21] stats4_3.3.1        grid_3.3.1
[23] Biobase_2.34.0      R6_2.2.0
[25] AnnotationDbi_1.36.0 XML_3.98-1.4
```

[27]	BiocParallel_1.8.0	org.Hs.eg.db_3.4.0
[29]	magrittr_1.5	Rsamtools_1.26.0
[31]	htmltools_0.3.5	BiocGenerics_0.20.0
[33]	GenomicRanges_1.26.0	GenomicAlignments_1.10.0
[35]	SummarizedExperiment_1.4.0	mime_0.5
[37]	xtable_1.8-2	httpuv_1.3.3
[39]	RCurl_1.95-4.8	rTRM_1.12.0