

REPORTE GENBANK

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Se trabaja únicamente con los phylum seleccionados:

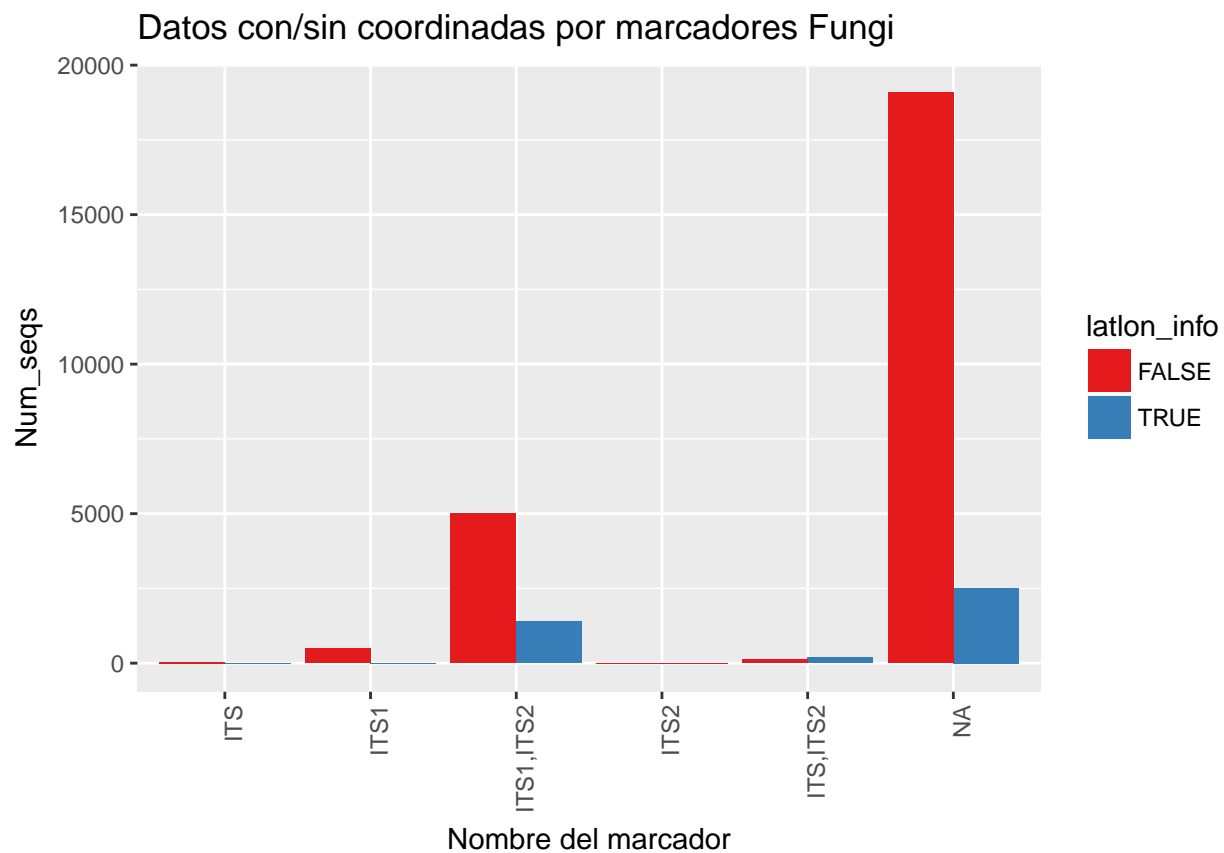
Metazoa: Chordata y Arthropoda Fungi: Basidiomycota y Ascomycota Viridiplantae: Magnoliophyta y Pinophyta

Gráficas de información geográfica disponible por marcador.

Información disponible de latitud y longitud

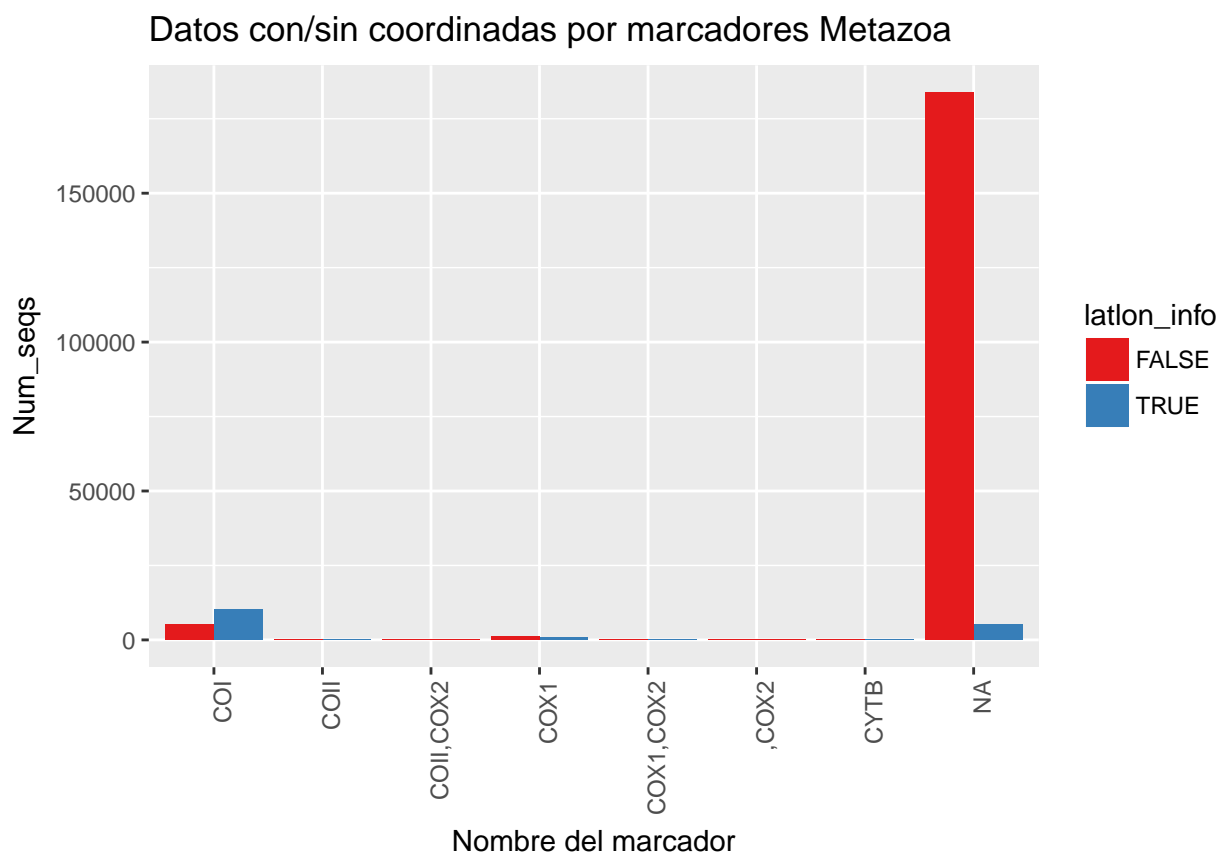
Fungi

```
## # A tibble: 11 x 3
## # Groups:   markers [?]
##   markers  latlon_info Num_seqs
##   <chr>    <lgl>         <int>
## 1 ITS      FALSE           36
## 2 ITS      TRUE            2
## 3 ITS1     FALSE          499
## 4 ITS1     TRUE            4
## 5 ITS1,ITS2 FALSE         5013
## 6 ITS1,ITS2 TRUE          1394
## 7 ITS2     FALSE            1
## 8 ITS,ITS2 FALSE          116
## 9 ITS,ITS2 TRUE           190
## 10 <NA>    FALSE        19092
## 11 <NA>    TRUE         2509
```



Metazoa

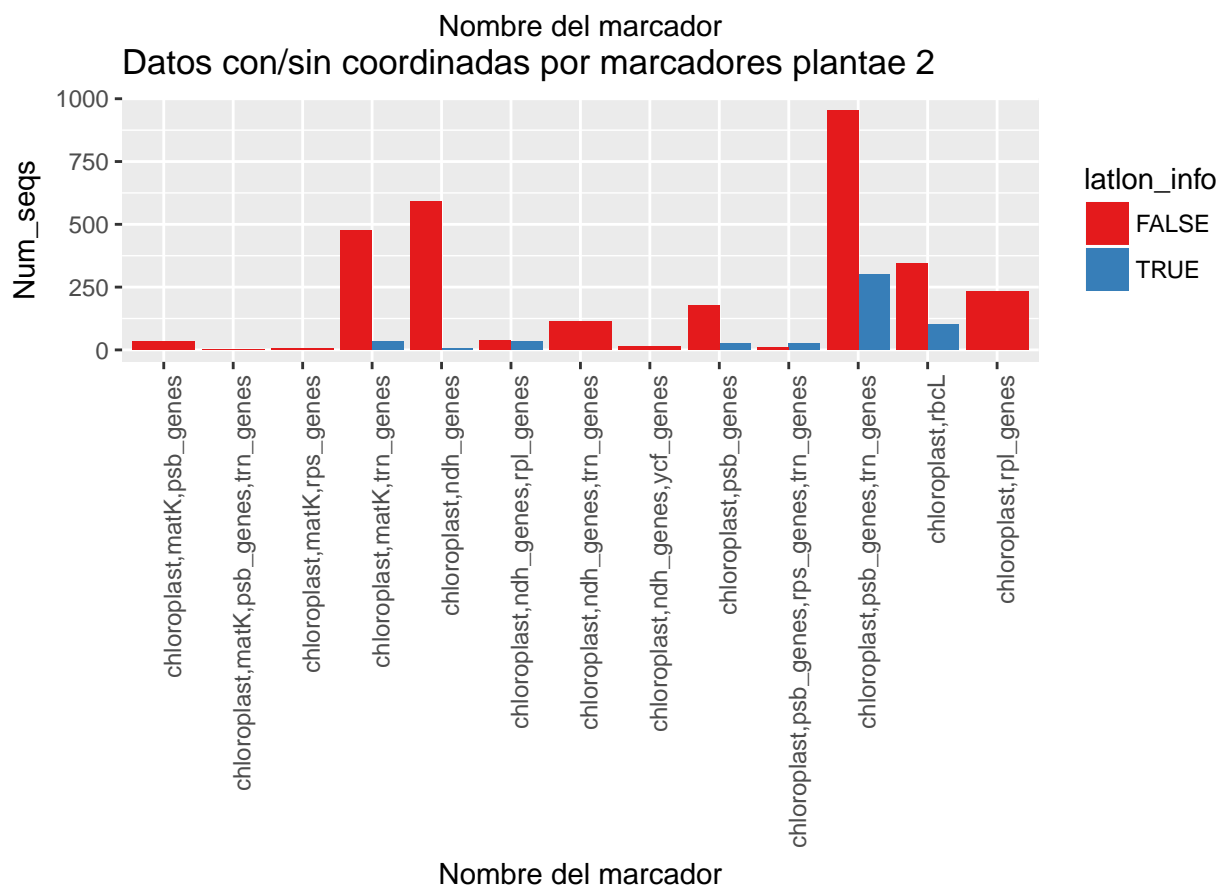
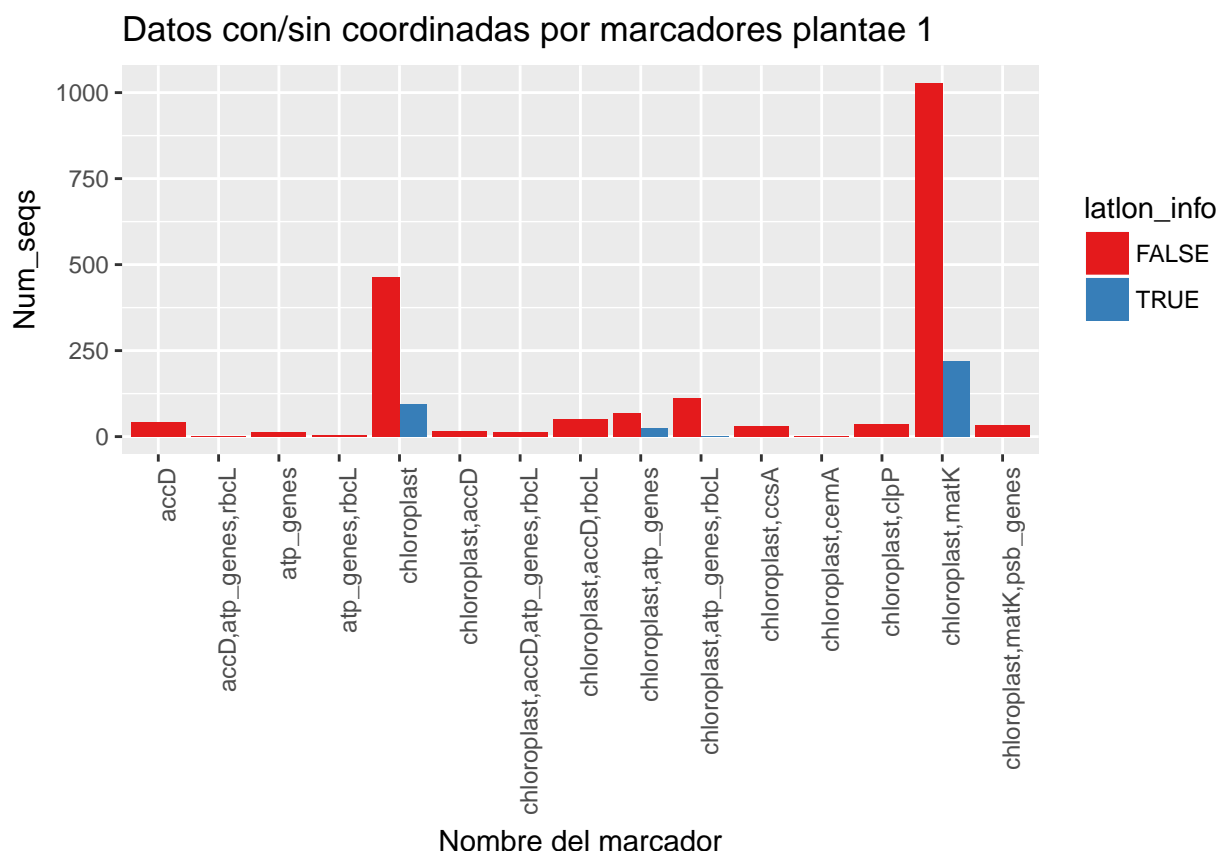
```
## # A tibble: 14 x 3
## # Groups:   markers [?]
##   markers    latlon_info Num_seqs
##   <chr>      <lgl>         <int>
## 1 COI        FALSE          5077
## 2 COI        TRUE          10229
## 3 COII       FALSE          291
## 4 COII       TRUE           82
## 5 COII,COX2  FALSE          26
## 6 COX1       FALSE          1166
## 7 COX1       TRUE           713
## 8 COX1,COX2  FALSE          10
## 9 COX1,COX2  TRUE           8
## 10 ,COX2     FALSE          24
## 11 CYTB      FALSE          87
## 12 CYTB      TRUE           26
## 13 <NA>      FALSE        183754
## 14 <NA>      TRUE          5078
```



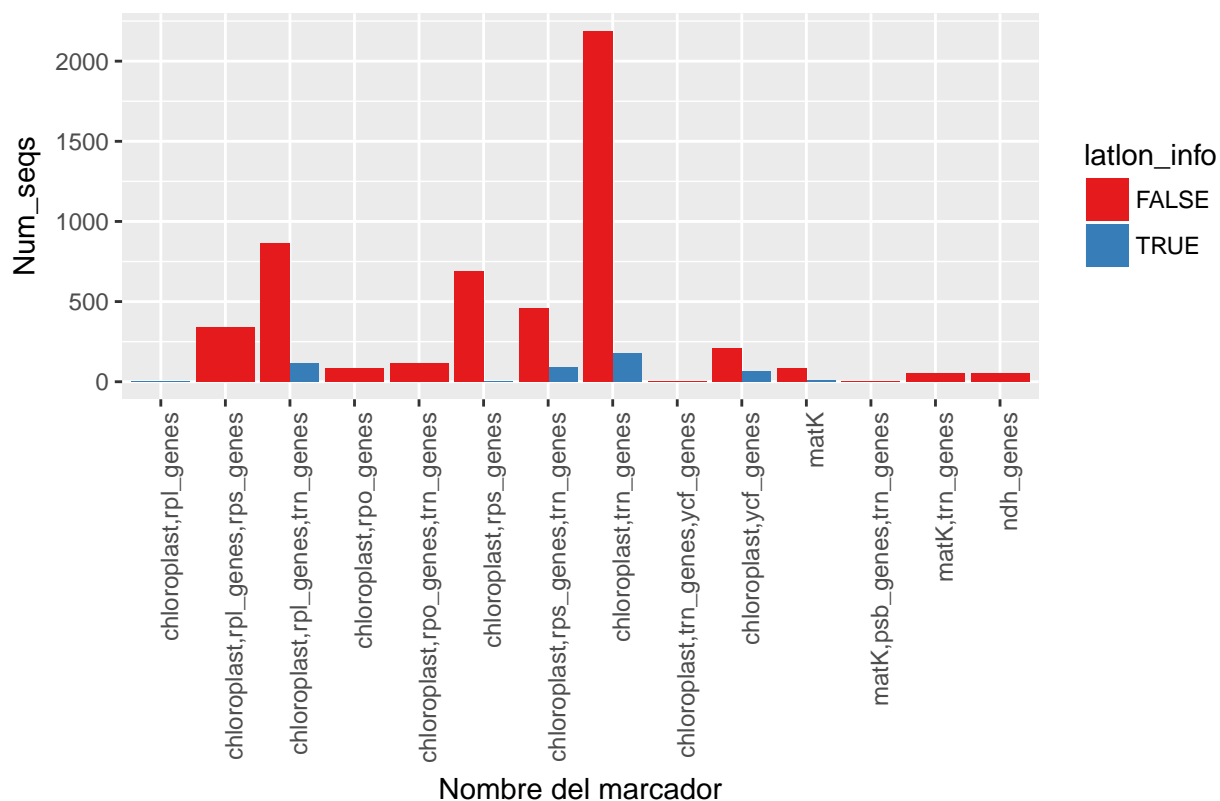
Viridiplantae

p_markers_latlon

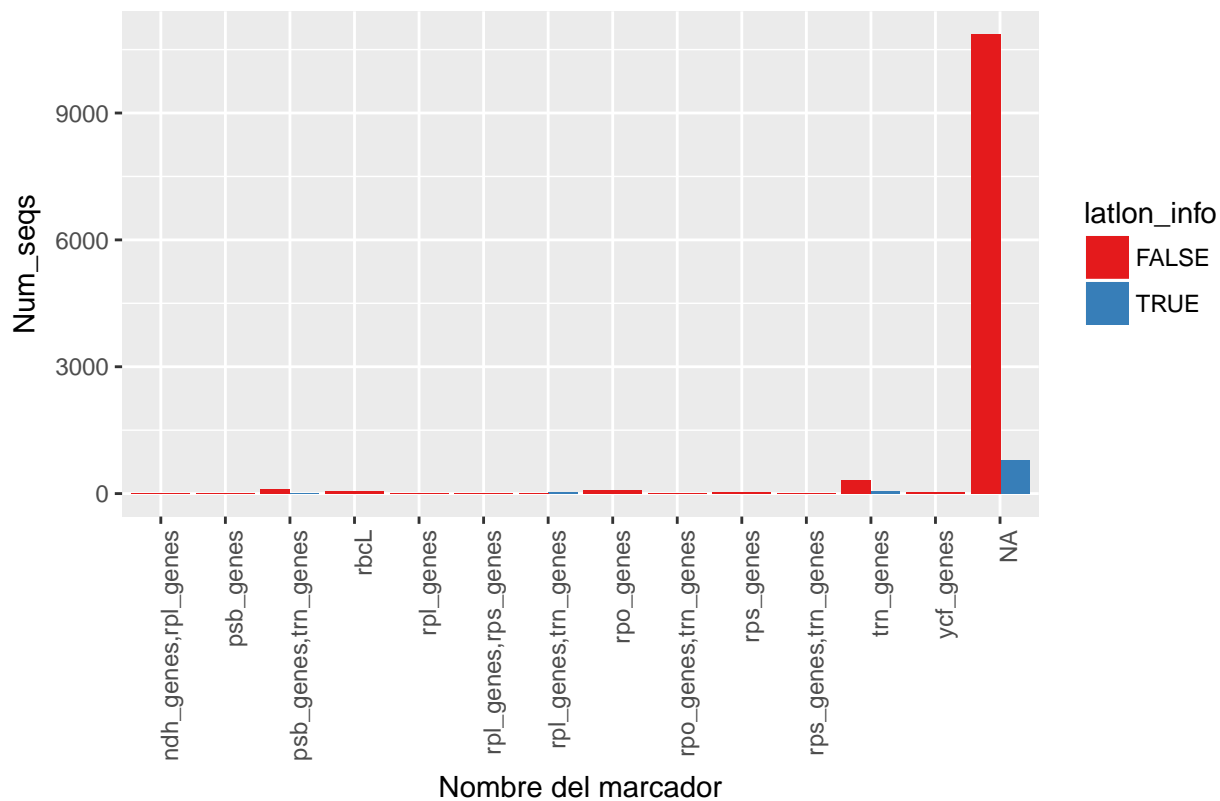
```
## # A tibble: 76 x 3
## # Groups:   markers [?]
##   markers                latlon_info Num_seqs
##   <chr>                <lgl>      <int>
## 1 accD                 FALSE         42
## 2 accD,atp_genes,rbcL  FALSE          1
## 3 atp_genes            FALSE         13
## 4 atp_genes,rbcL       FALSE          4
## 5 chloroplast          FALSE        463
## 6 chloroplast          TRUE          95
## 7 chloroplast,accD     FALSE         15
## 8 chloroplast,accD,atp_genes,rbcL FALSE         13
## 9 chloroplast,accD,rbcL FALSE         52
## 10 chloroplast,atp_genes FALSE         69
## # ... with 66 more rows
```



Datos con/sin coordinadas por marcadores plantae 3



Datos con/sin coordinadas por marcadores plantae 4

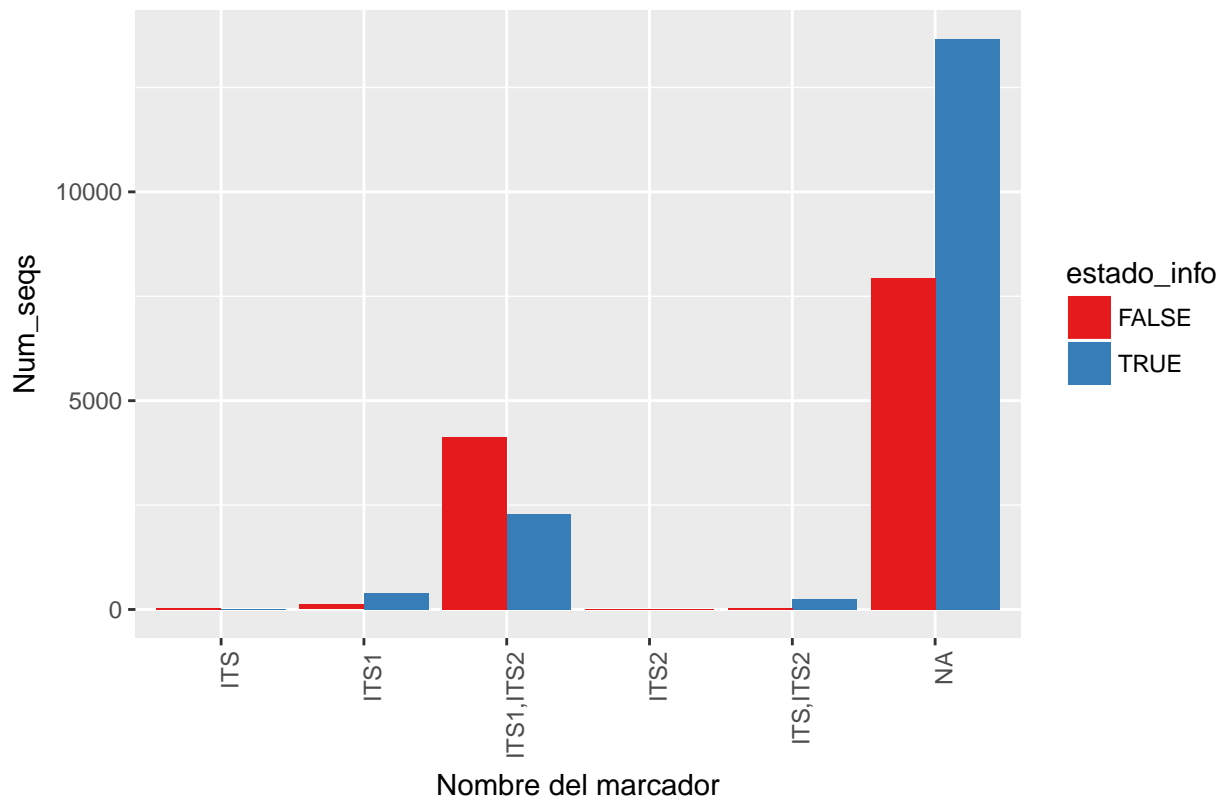


Información disponible de estado

Fungi

```
## # A tibble: 11 x 3
## # Groups:   markers [?]
##   markers estado_info Num_seqs
##   <chr>    <lgl>      <int>
## 1 ITS      FALSE         30
## 2 ITS      TRUE          8
## 3 ITS1     FALSE        119
## 4 ITS1     TRUE         384
## 5 ITS1,ITS2 FALSE       4120
## 6 ITS1,ITS2 TRUE       2287
## 7 ITS2     FALSE          1
## 8 ITS,ITS2 FALSE         44
## 9 ITS,ITS2 TRUE        262
## 10 <NA>    FALSE       7931
## 11 <NA>    TRUE      13670
```

Datos con/sin estado por marcadores Fungi

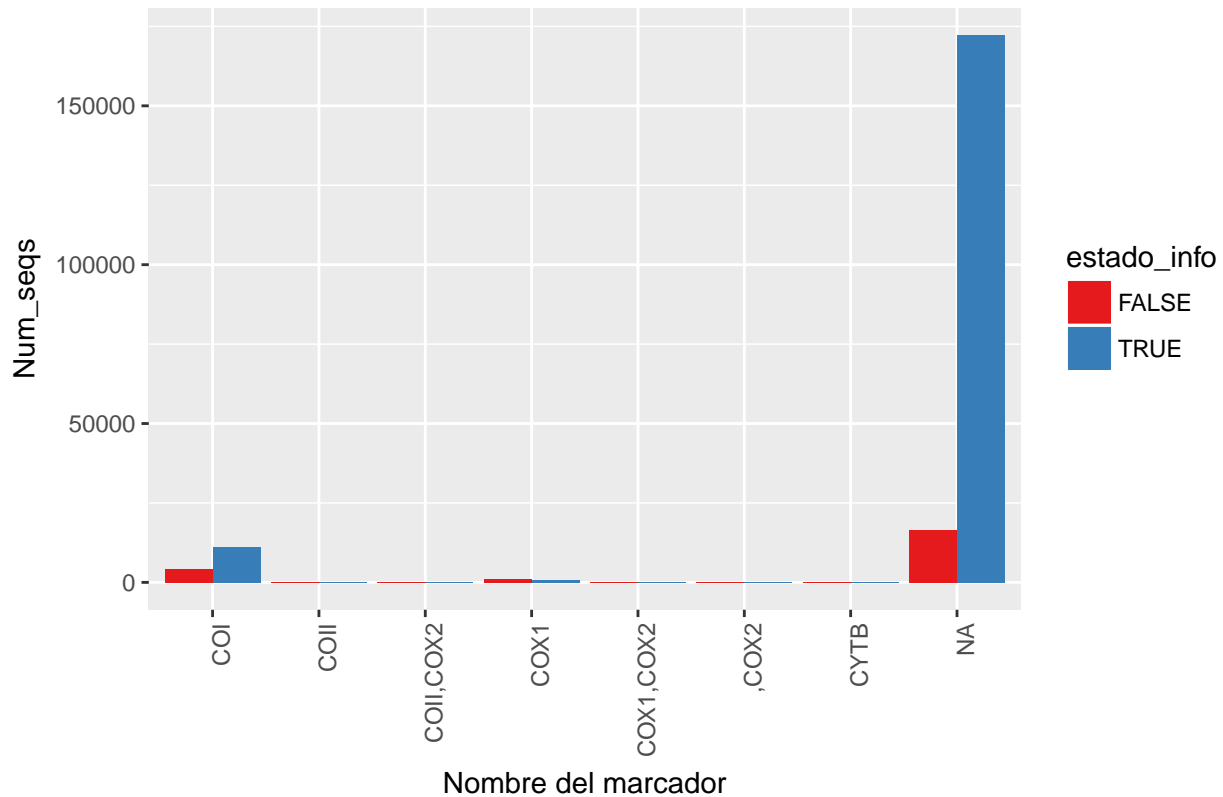


Metazoa

```
## # A tibble: 16 x 3
## # Groups:   markers [?]
##   markers estado_info Num_seqs
##   <chr>    <lgl>      <int>
## 1 COI     FALSE       4142
```

```
## 2 COI      TRUE      11164
## 3 COII     FALSE     189
## 4 COII     TRUE      184
## 5 COII,COX2 FALSE     14
## 6 COII,COX2 TRUE      12
## 7 COX1     FALSE    1181
## 8 COX1     TRUE     698
## 9 COX1,COX2 FALSE      5
## 10 COX1,COX2 TRUE      13
## 11 ,COX2    FALSE     21
## 12 ,COX2    TRUE       3
## 13 CYTB     FALSE     81
## 14 CYTB     TRUE      32
## 15 <NA>     FALSE   16595
## 16 <NA>     TRUE   172237
```

Datos con/sin estado por marcadores Metazoa

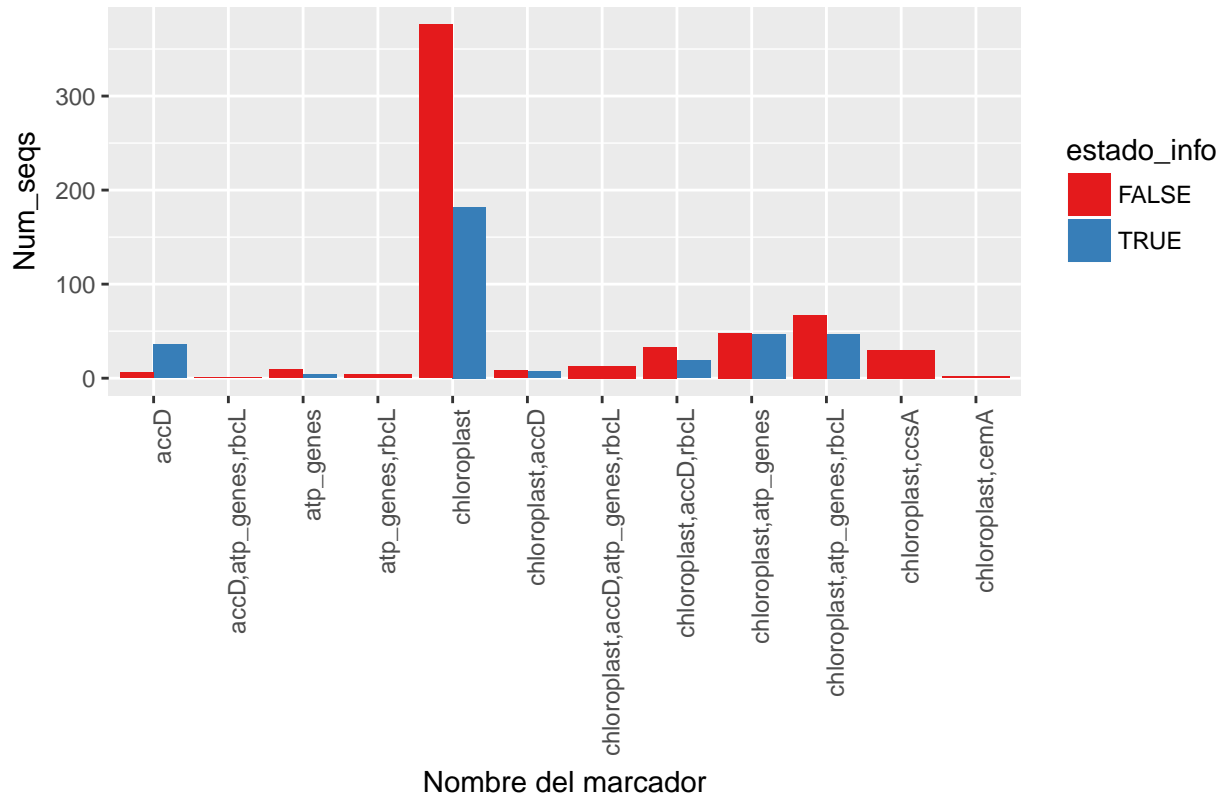


Viridiplantae

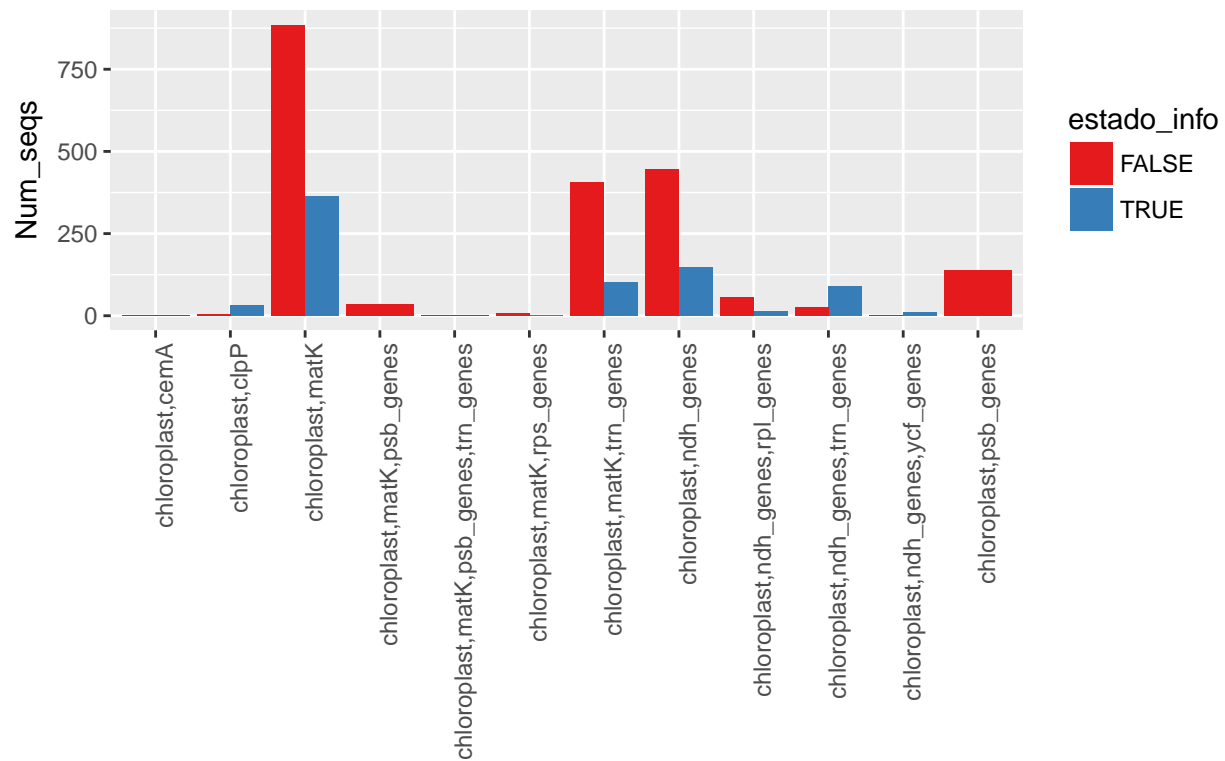
```
## # A tibble: 96 x 3
## # Groups:   markers [?]
##   markers      estado_info Num_seqs
##   <chr>        <lgl>      <int>
## 1 accD        FALSE         6
## 2 accD        TRUE        36
## 3 accD,atp_genes,rbcL FALSE         1
## 4 atp_genes   FALSE         9
## 5 atp_genes   TRUE          4
```

```
## 6 atp_genes,rbcL      FALSE      4
## 7 chloroplast         FALSE     376
## 8 chloroplast         TRUE      182
## 9 chloroplast,accD    FALSE      8
## 10 chloroplast,accD   TRUE       7
## # ... with 86 more rows
```

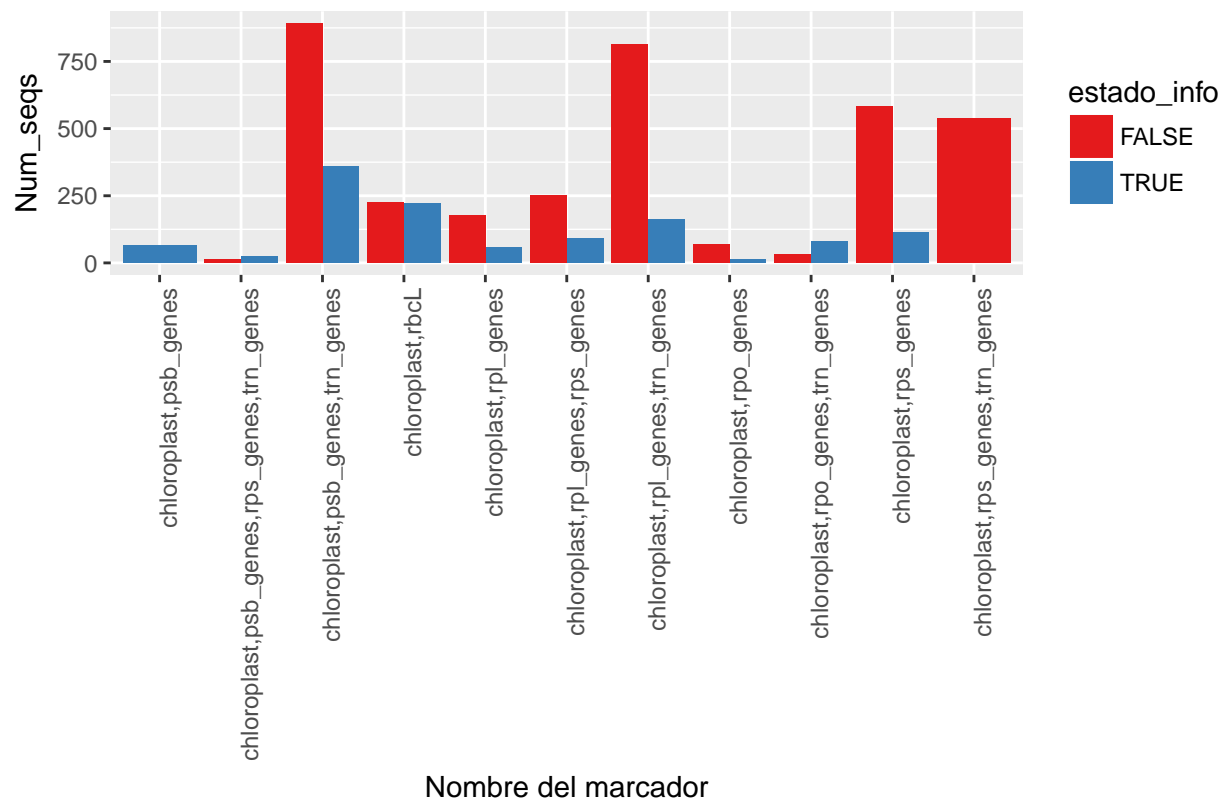
Datos con/sin estado por marcadores plantae 1

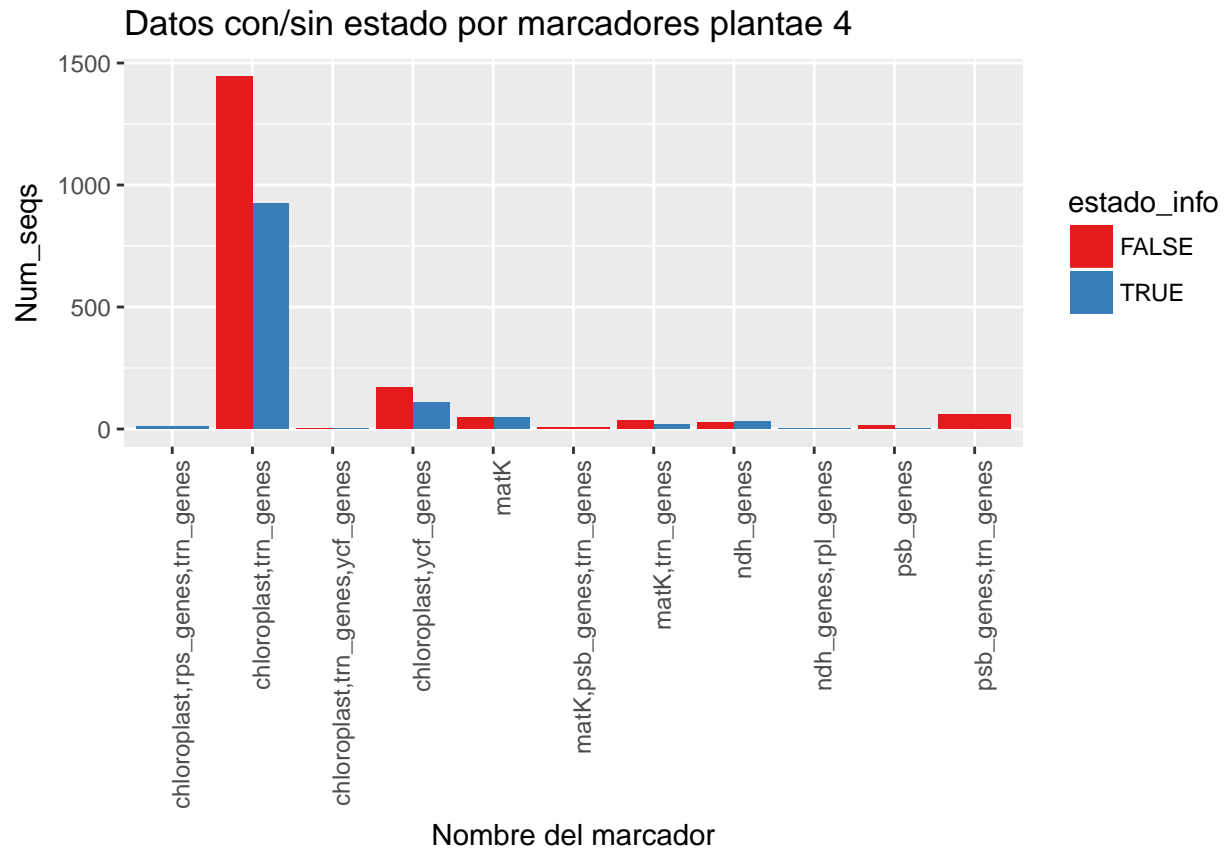


Datos con/sin estado por marcadores plantae 2



Datos con/sin estado por estado plantae 3

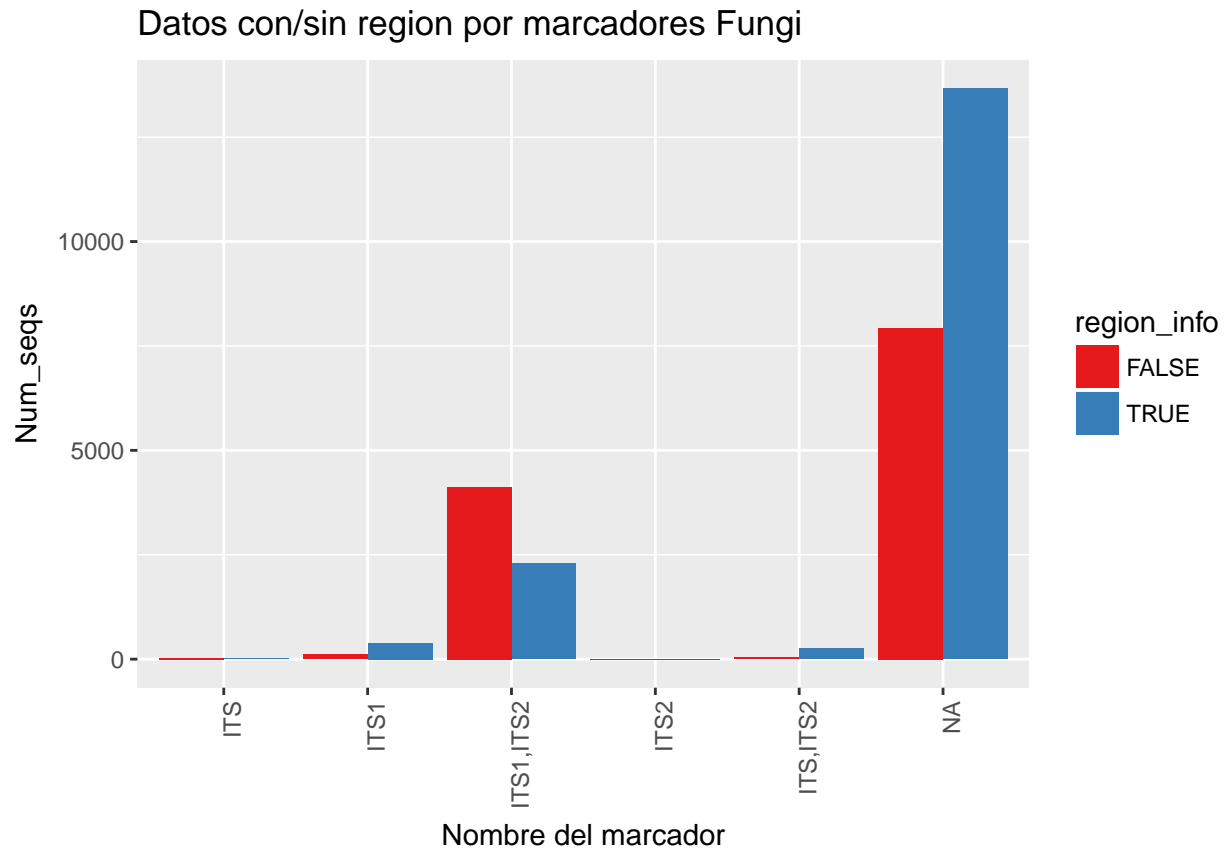




Información disponible de región

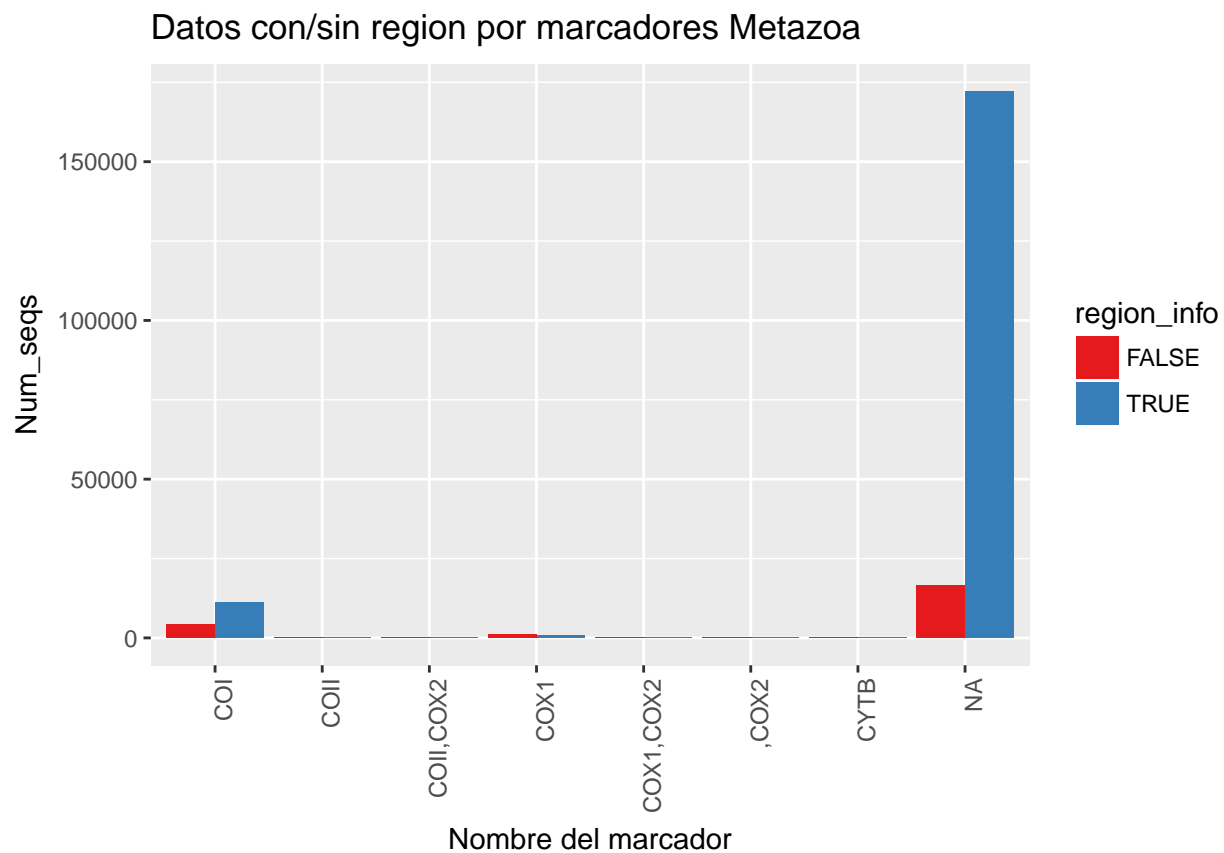
Fungi

```
## # A tibble: 11 x 3
## # Groups:   markers [?]
##   markers    region_info Num_seqs
##   <chr>      <lgl>         <int>
## 1 ITS        FALSE             30
## 2 ITS        TRUE              8
## 3 ITS1       FALSE            119
## 4 ITS1       TRUE             384
## 5 ITS1,ITS2  FALSE            4120
## 6 ITS1,ITS2  TRUE            2287
## 7 ITS2       FALSE              1
## 8 ITS,ITS2   FALSE             44
## 9 ITS,ITS2   TRUE             262
## 10 <NA>      FALSE            7931
## 11 <NA>      TRUE           13670
```



Metazoa

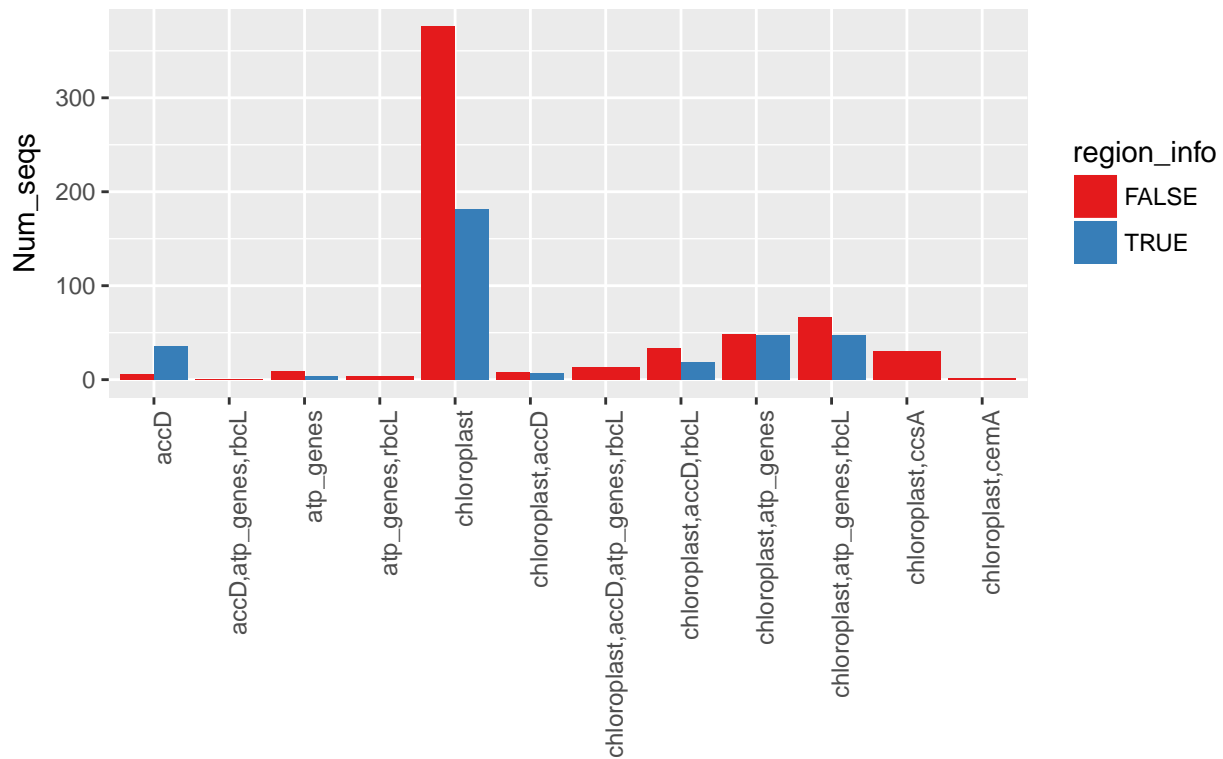
```
## # A tibble: 16 x 3
## # Groups:   markers [?]
##   markers    region_info Num_seqs
##   <chr>      <lgl>         <int>
## 1 COI        FALSE          4142
## 2 COI        TRUE           11164
## 3 COII       FALSE          189
## 4 COII       TRUE           184
## 5 COII,COX2 FALSE          14
## 6 COII,COX2 TRUE           12
## 7 COX1       FALSE          1181
## 8 COX1       TRUE            698
## 9 COX1,COX2 FALSE           5
## 10 COX1,COX2 TRUE            13
## 11 ,COX2     FALSE          21
## 12 ,COX2     TRUE            3
## 13 CYTB      FALSE           81
## 14 CYTB      TRUE            32
## 15 <NA>      FALSE          16595
## 16 <NA>      TRUE          172237
```



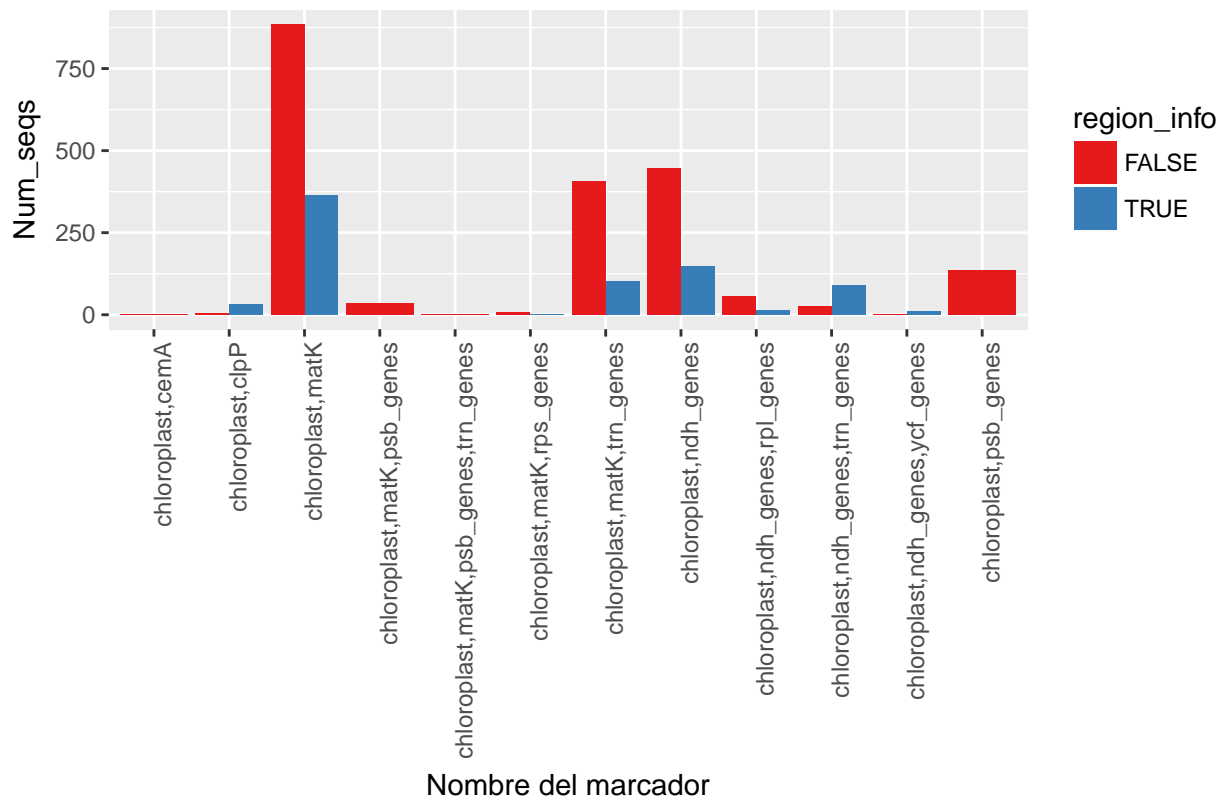
Viridiplantae

```
## # A tibble: 96 x 3
## # Groups:   markers [?]
##   markers          region_info Num_seqs
##   <chr>          <lgl>         <int>
## 1 accD           FALSE             6
## 2 accD           TRUE             36
## 3 accD,atp_genes,rbcL FALSE             1
## 4 atp_genes      FALSE             9
## 5 atp_genes      TRUE              4
## 6 atp_genes,rbcL FALSE             4
## 7 chloroplast    FALSE            376
## 8 chloroplast    TRUE            182
## 9 chloroplast,accD FALSE             8
## 10 chloroplast,accD TRUE              7
## # ... with 86 more rows
```

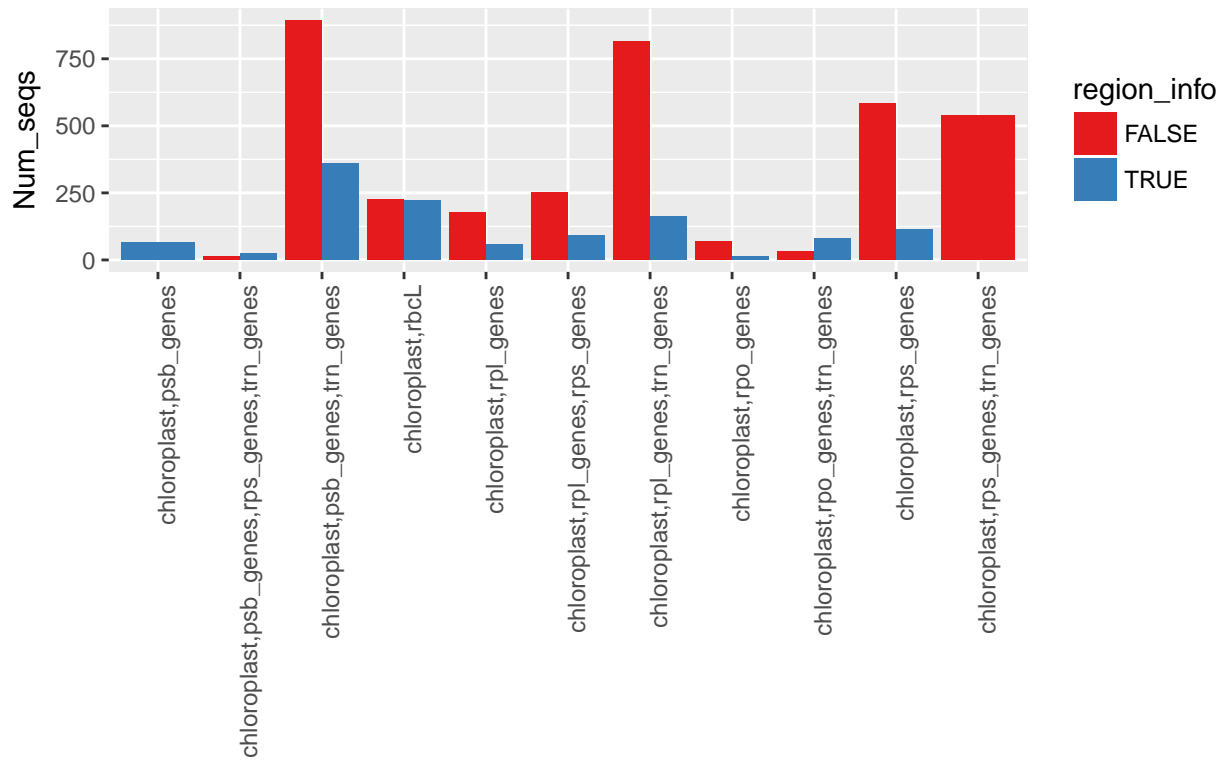
Datos con/sin region por marcadores plantae 1



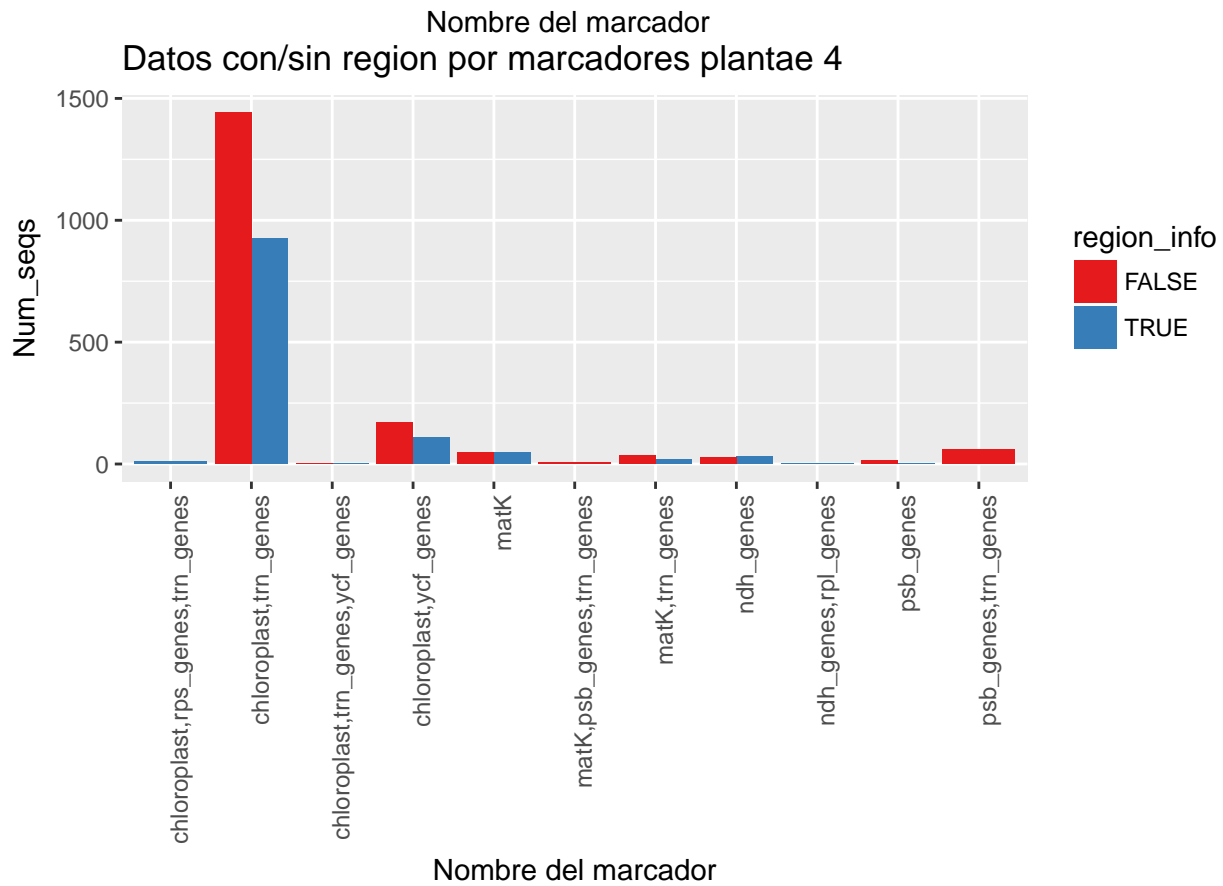
Datos con/sin region por marcadores plantae 2



Datos con/sin region por estado plantae 3



Datos con/sin region por marcadores plantae 4



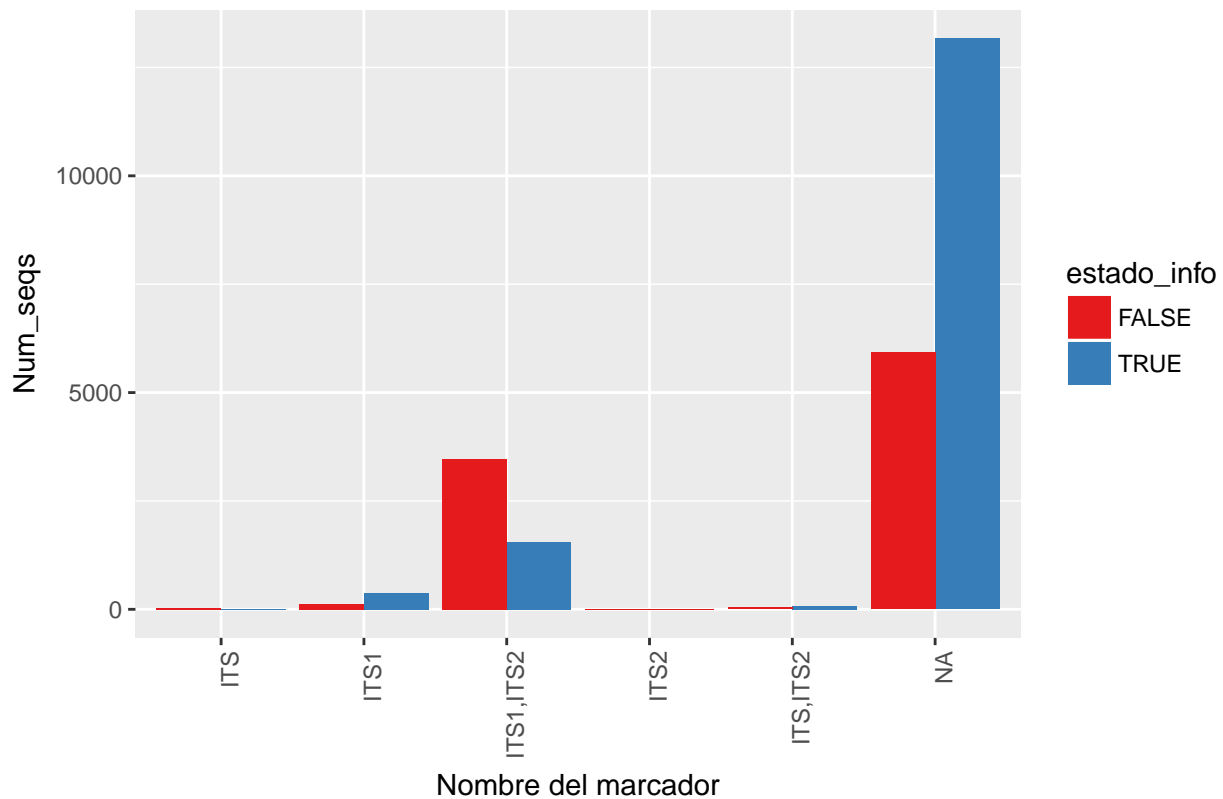
Gráficas de información geográfica disponible por marcador, casos en los que no hay información disponible de latitud-longitud.

Información disponible de estado (casos en los que no hay información de coordenadas).

Fungi.

```
## # A tibble: 11 x 3
## # Groups:   markers [?]
##   markers estado_info Num_seqs
##   <chr>      <lgl>      <int>
## 1 ITS       FALSE         30
## 2 ITS       TRUE          6
## 3 ITS1      FALSE        117
## 4 ITS1      TRUE         382
## 5 ITS1,ITS2 FALSE       3466
## 6 ITS1,ITS2 TRUE        1547
## 7 ITS2      FALSE          1
## 8 ITS,ITS2  FALSE         42
## 9 ITS,ITS2  TRUE          74
## 10 <NA>     FALSE       5923
## 11 <NA>     TRUE      13169
```

Datos con/sin estado por marcadores Fungi

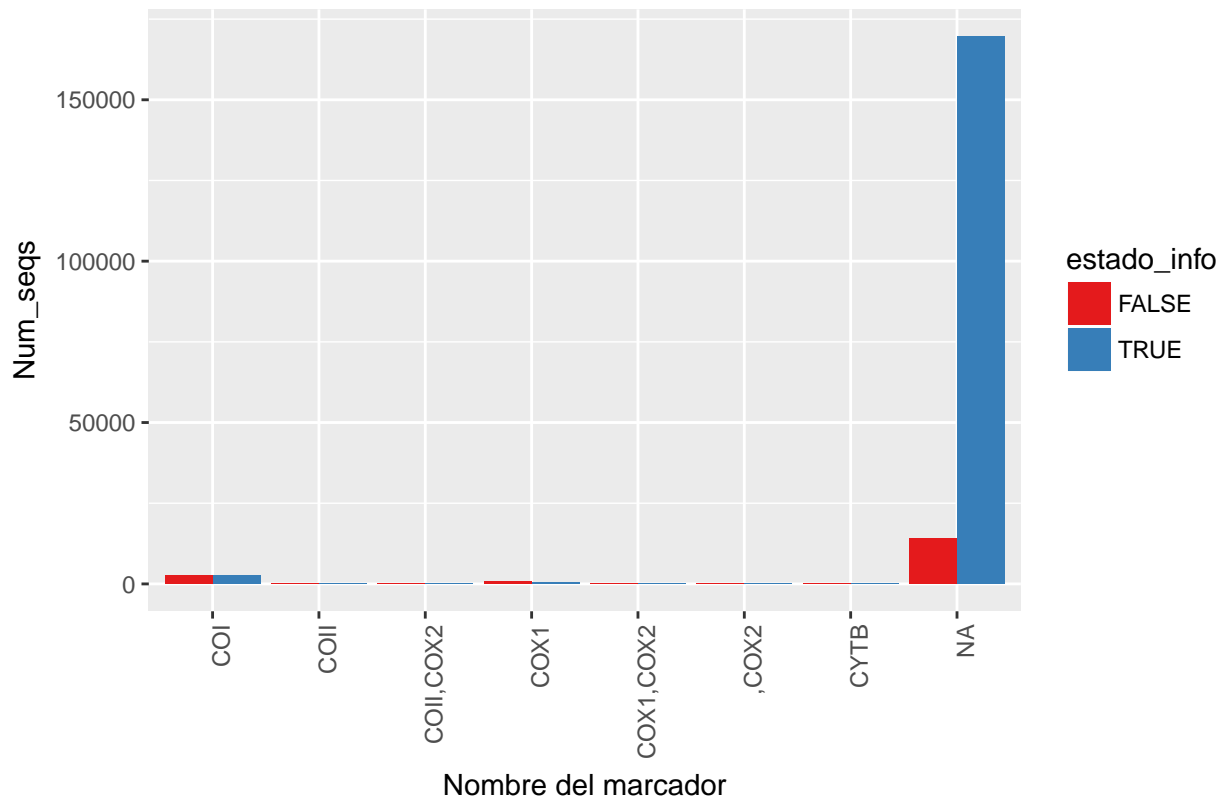


Metazoa

```
## # A tibble: 16 x 3
```

```
## # Groups:   markers [?]
##   markers   estado_info Num_seqs
##   <chr>     <lgl>      <int>
## 1 COI       FALSE      2533
## 2 COI       TRUE       2544
## 3 COII      FALSE      176
## 4 COII      TRUE       115
## 5 COII,COX2 FALSE      14
## 6 COII,COX2 TRUE       12
## 7 COX1      FALSE      644
## 8 COX1      TRUE       522
## 9 COX1,COX2 FALSE       5
##10 COX1,COX2 TRUE       5
##11 ,COX2     FALSE      21
##12 ,COX2     TRUE       3
##13 CYTB     FALSE      66
##14 CYTB     TRUE       21
##15 <NA>     FALSE     14203
##16 <NA>     TRUE     169551
```

Datos con/sin estado por marcadores Metazoa



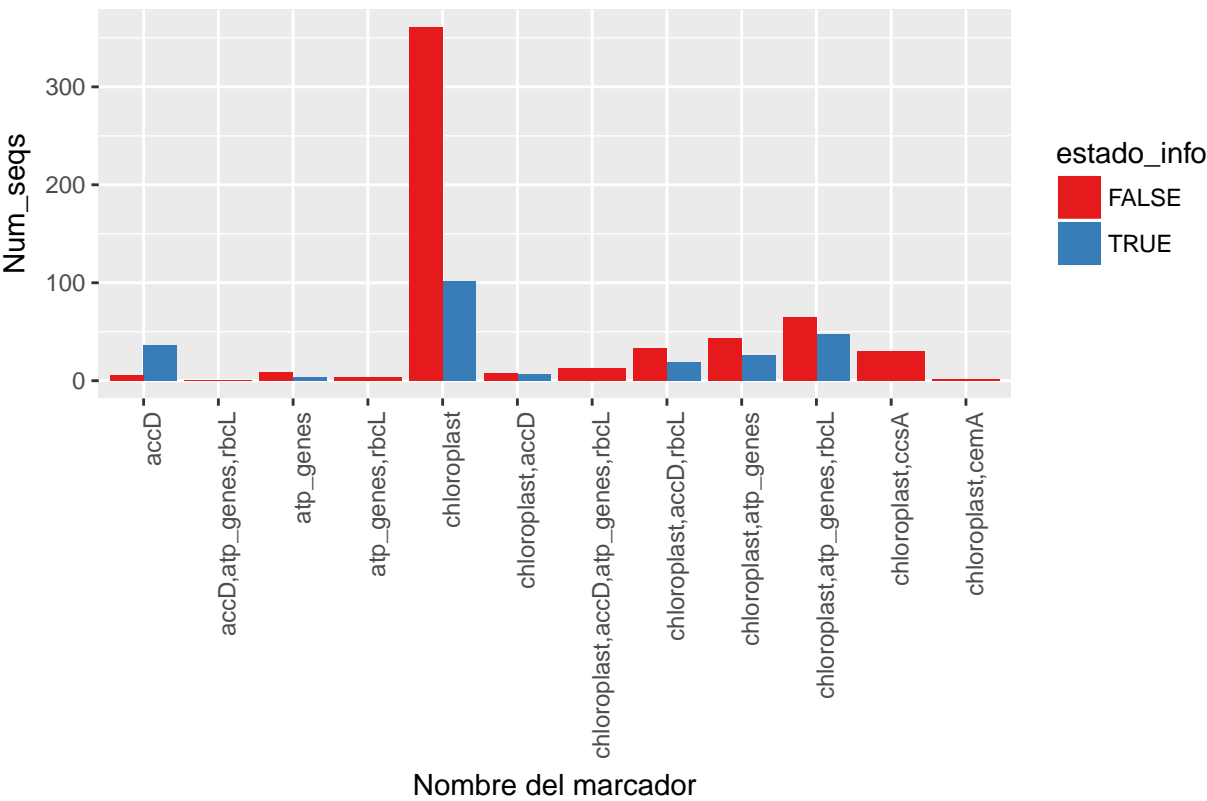
Viridiplantae

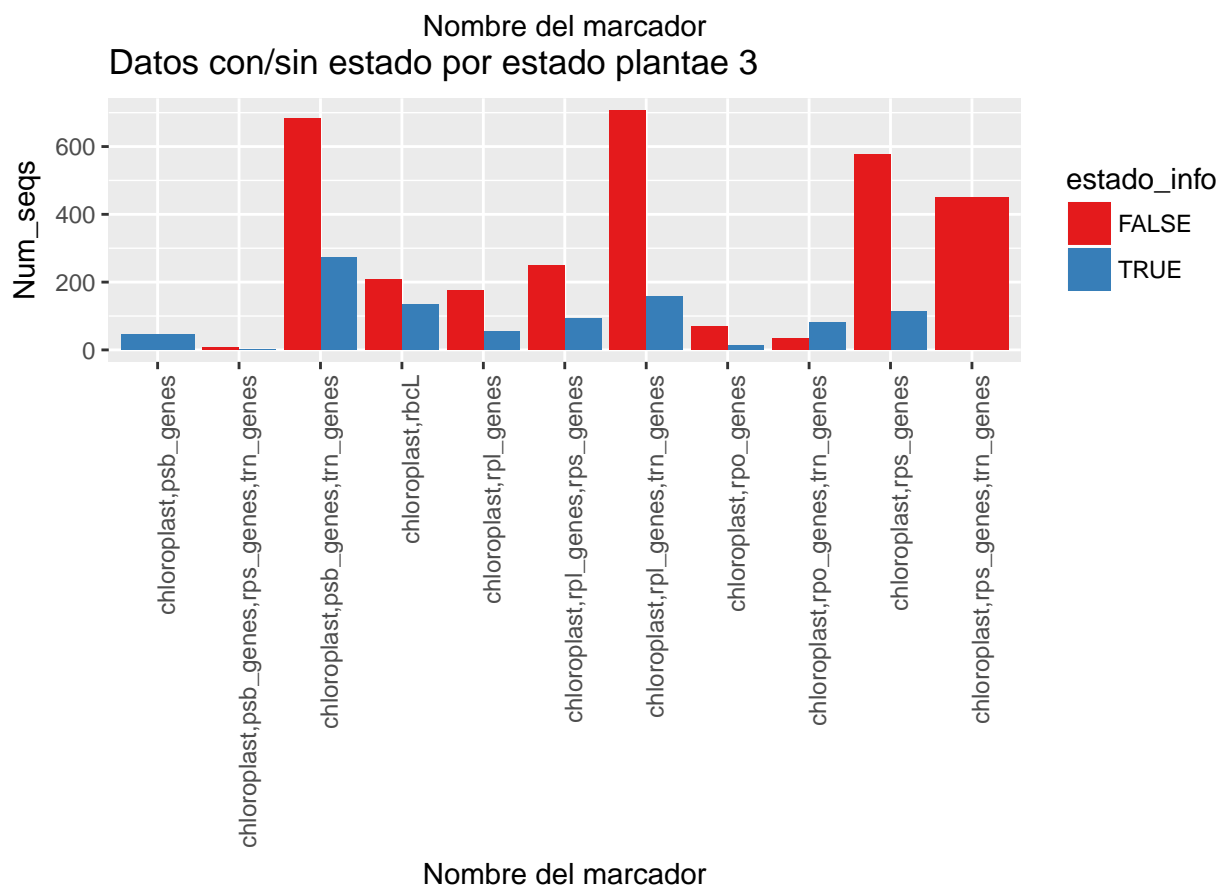
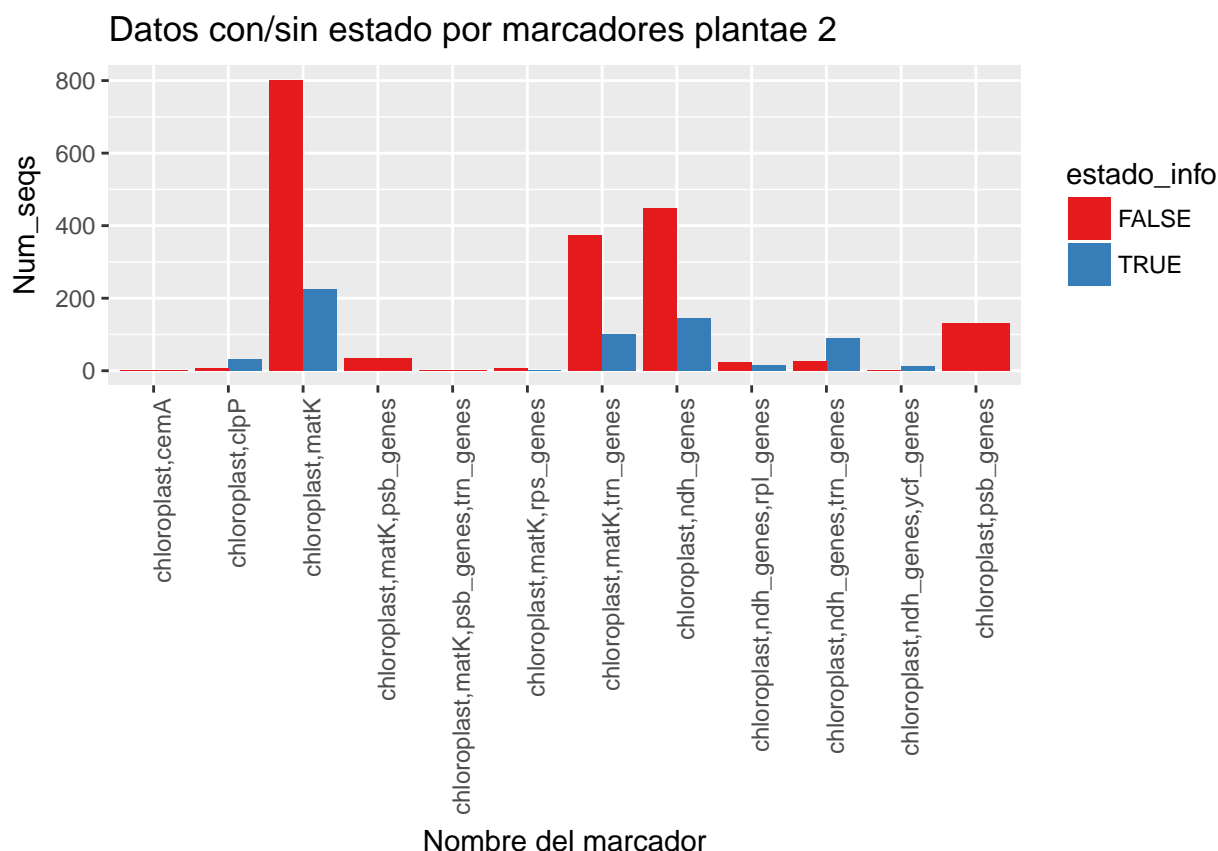
```
## # A tibble: 96 x 3
## # Groups:   markers [?]
##   markers   estado_info Num_seqs
##   <chr>     <lgl>      <int>
## 1 accD     FALSE       6
```

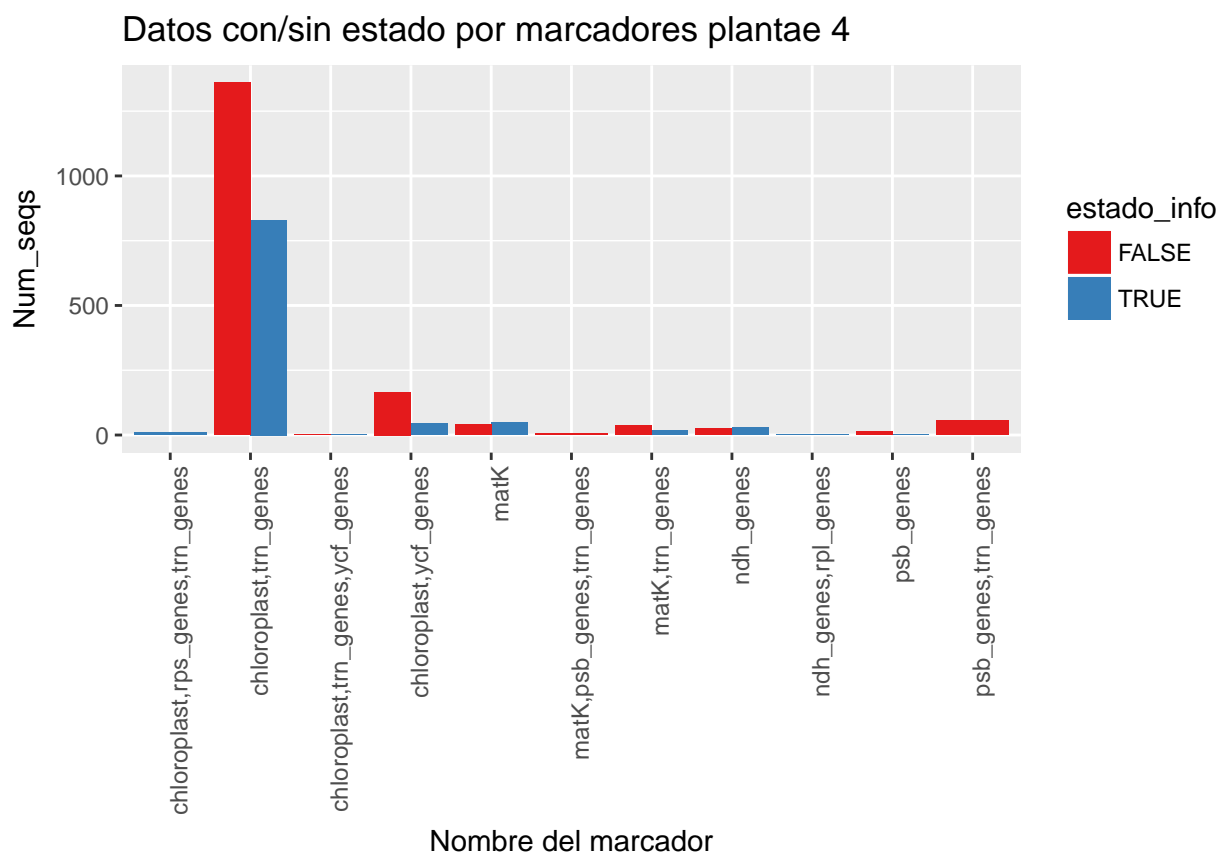


```
## 2 accD TRUE 36
## 3 accD,atp_genes,rbcL FALSE 1
## 4 atp_genes FALSE 9
## 5 atp_genes TRUE 4
## 6 atp_genes,rbcL FALSE 4
## 7 chloroplast FALSE 361
## 8 chloroplast TRUE 102
## 9 chloroplast,accD FALSE 8
## 10 chloroplast,accD TRUE 7
## # ... with 86 more rows
```

Datos con/sin estado por marcadores plantae 1



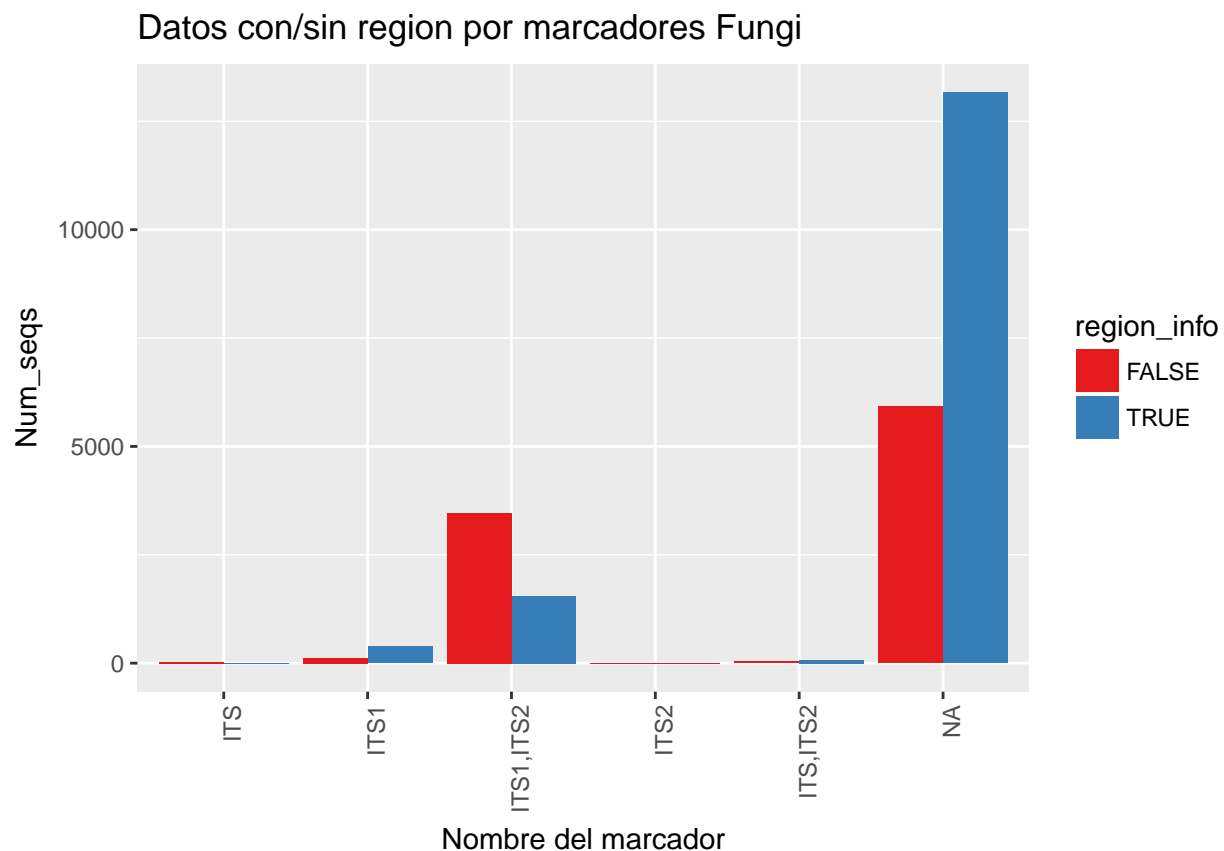




Información disponible de región (casos en los que no hay información de coordenadas).

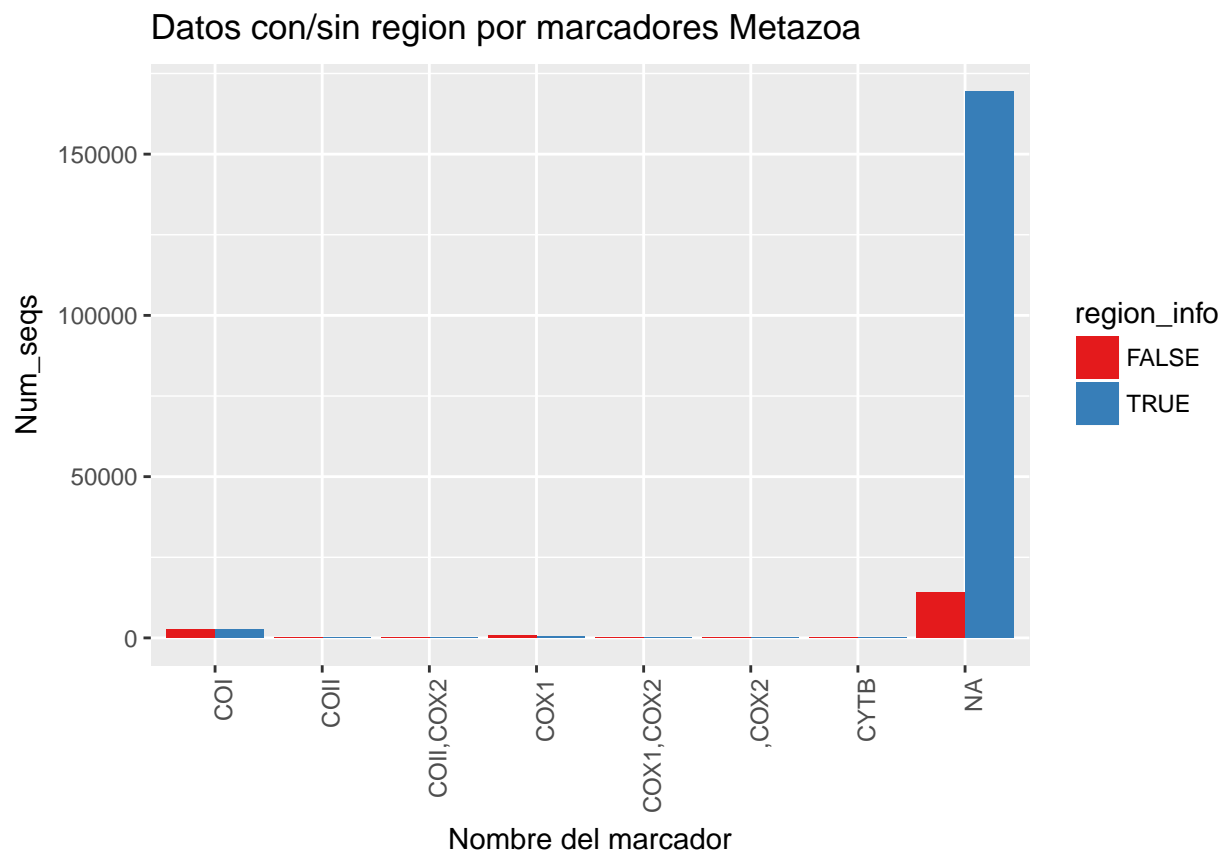
Fungi.

```
## # A tibble: 11 x 3
## # Groups:   markers [?]
##   markers    region_info Num_seqs
##   <chr>      <lgl>         <int>
## 1 ITS        FALSE             30
## 2 ITS        TRUE              6
## 3 ITS1       FALSE            117
## 4 ITS1       TRUE             382
## 5 ITS1,ITS2  FALSE           3466
## 6 ITS1,ITS2  TRUE            1547
## 7 ITS2       FALSE              1
## 8 ITS,ITS2   FALSE             42
## 9 ITS,ITS2   TRUE              74
## 10 <NA>      FALSE           5923
## 11 <NA>      TRUE          13169
```



Metazoa

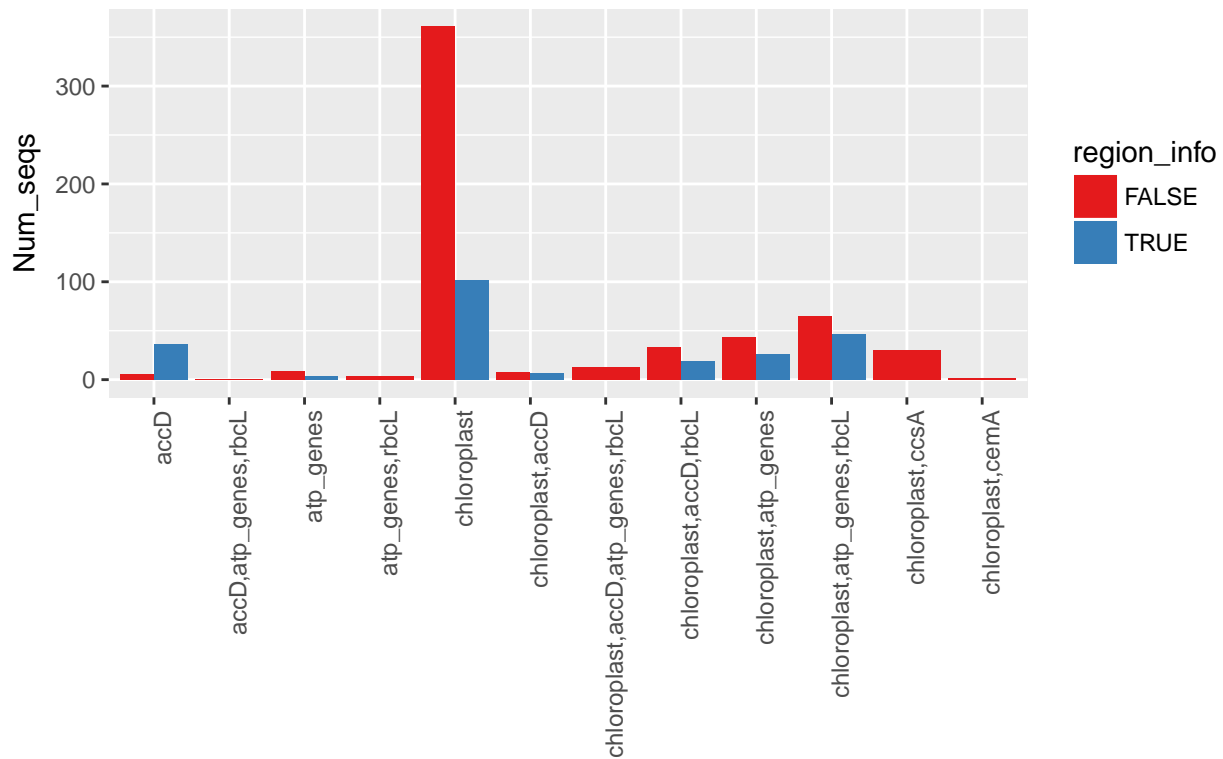
```
## # A tibble: 16 x 3
## # Groups:   markers [?]
##   markers    region_info Num_seqs
##   <chr>      <lgl>         <int>
## 1 COI        FALSE          2533
## 2 COI        TRUE           2544
## 3 COII       FALSE          176
## 4 COII       TRUE           115
## 5 COII,COX2  FALSE           14
## 6 COII,COX2  TRUE            12
## 7 COX1       FALSE          644
## 8 COX1       TRUE           522
## 9 COX1,COX2  FALSE            5
## 10 COX1,COX2 TRUE             5
## 11 ,COX2     FALSE           21
## 12 ,COX2     TRUE             3
## 13 CYTB      FALSE           66
## 14 CYTB      TRUE            21
## 15 <NA>      FALSE        14203
## 16 <NA>      TRUE       169551
```



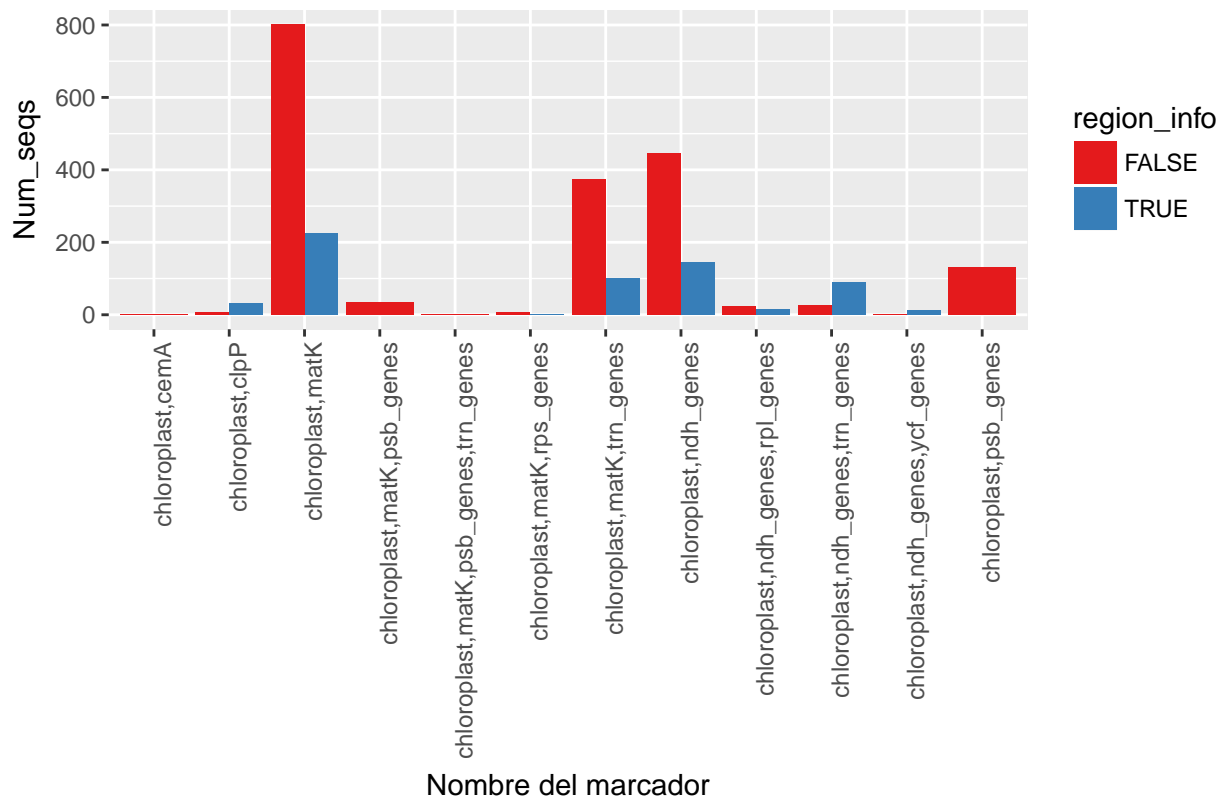
Viridiplantae

```
## # A tibble: 96 x 3
## # Groups:   markers [?]
##   markers          region_info Num_seqs
##   <chr>          <lgl>         <int>
## 1 accD           FALSE             6
## 2 accD           TRUE             36
## 3 accD,atp_genes,rbcL FALSE             1
## 4 atp_genes      FALSE             9
## 5 atp_genes      TRUE              4
## 6 atp_genes,rbcL FALSE             4
## 7 chloroplast    FALSE            361
## 8 chloroplast    TRUE            102
## 9 chloroplast,accD FALSE             8
## 10 chloroplast,accD TRUE              7
## # ... with 86 more rows
```

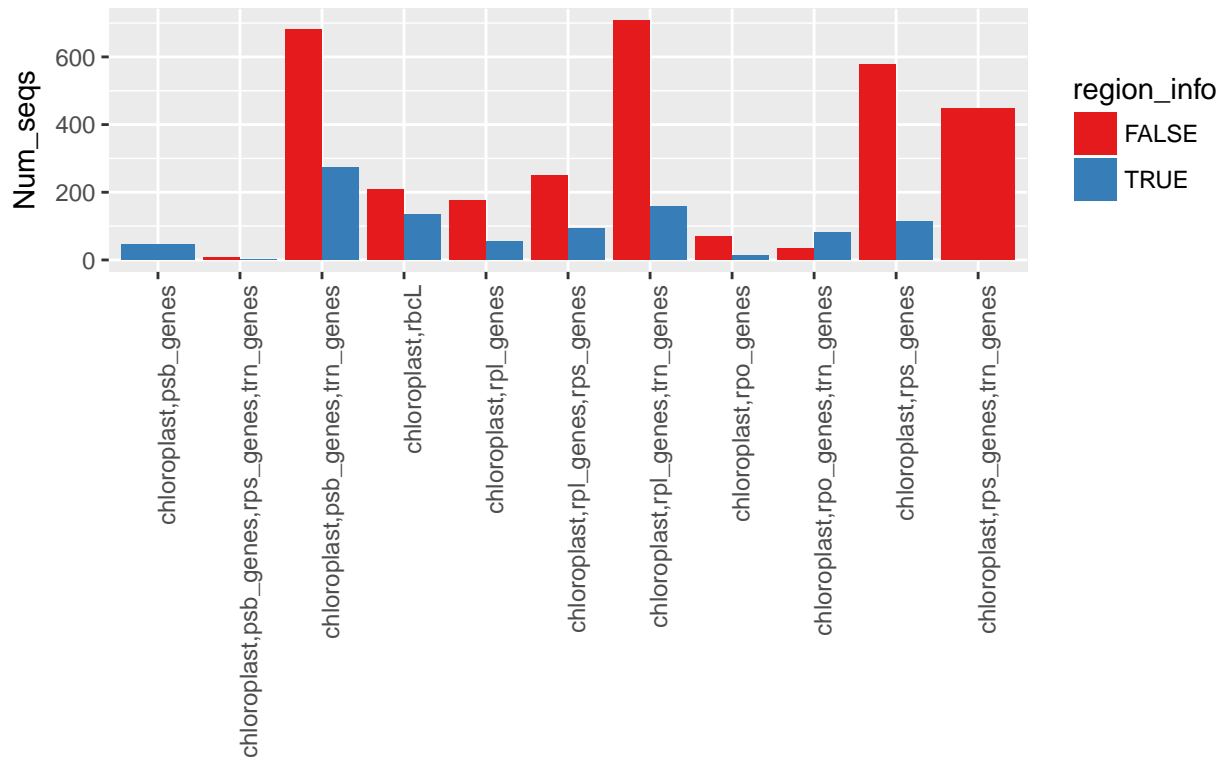
Datos con/sin region por marcadores plantae 1



Nombre del marcador
Datos con/sin region por marcadores plantae 2

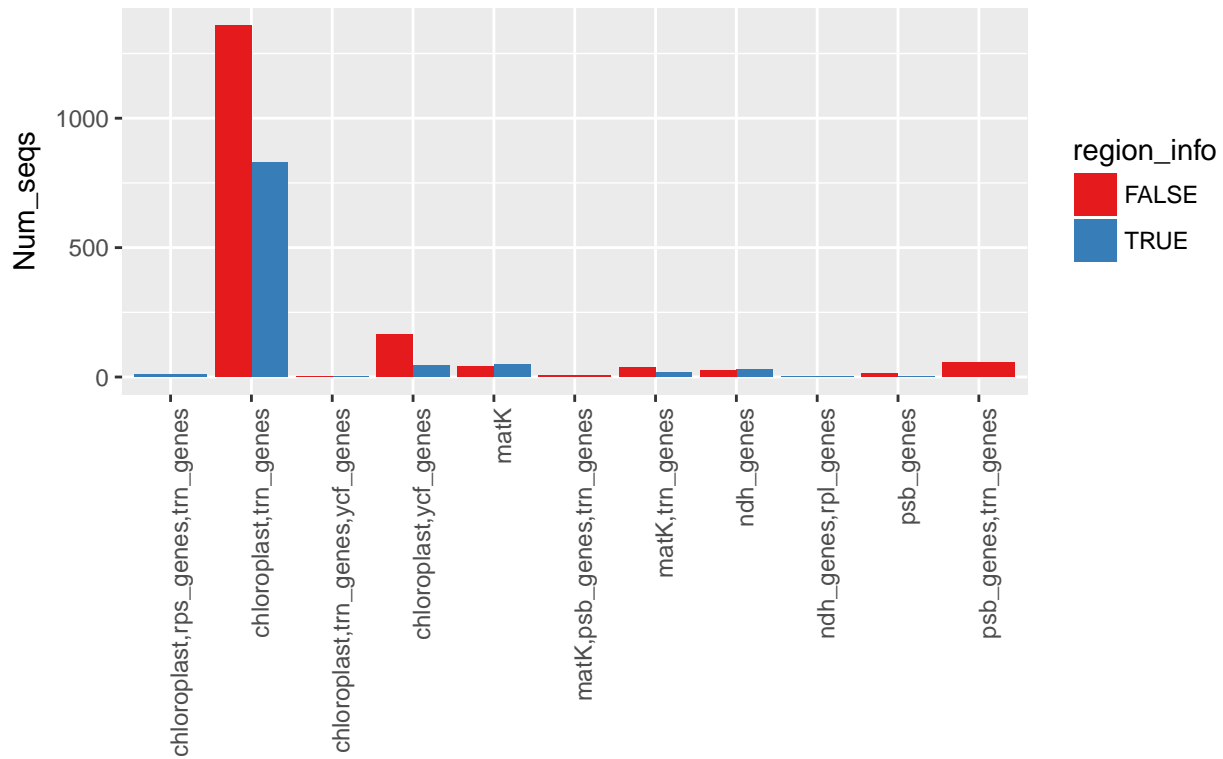


Datos con/sin region por estado plantae 3



Nombre del marcador

Datos con/sin region por marcadores plantae 4



Nombre del marcador