

3.1.

There are 95314 peaks.

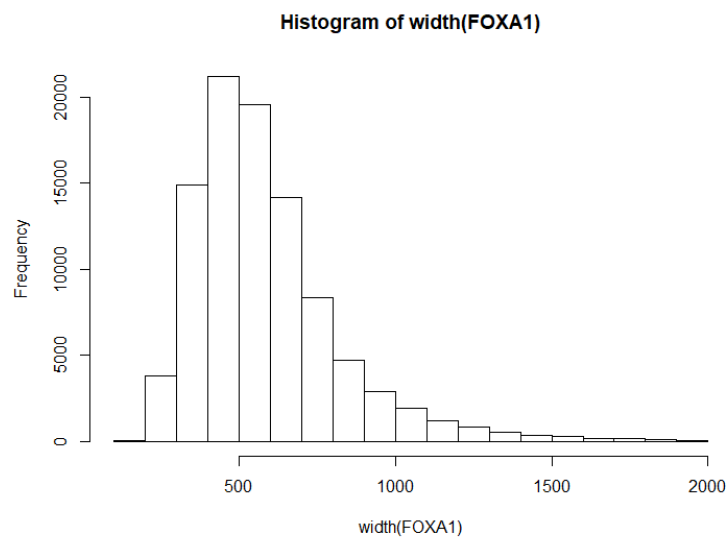
3.2.

mean: 594.9364

median: 538

max: 98453

3.3.



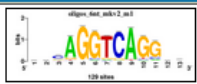
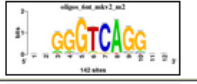
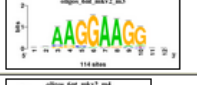
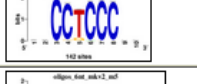
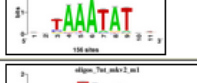
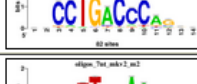
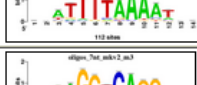
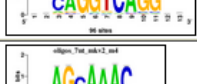
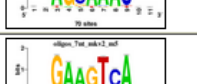

4.3.

There are 8188 Overlaps.


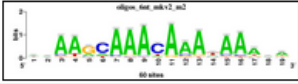
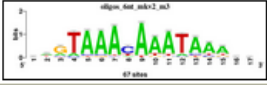
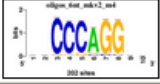
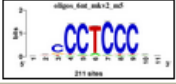

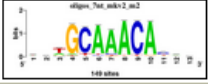


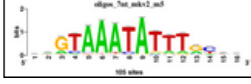
```
> findOverlaps(ER, FOXA1)
Hits object with 8188 hits and 0 metadata columns:
      queryHits subjectHits
      <integer>  <integer>
[1]           3           18
[2]           5           19
[3]           6           20
[4]          15           26
[5]          16           28
...          ...          ...
[8184]      12962      94809
[8185]      12963      94809
[8186]      12964      94810
[8187]      12970      94817
[8188]      12973      94830
-----
queryLength: 12999 / subjectLength: 95000
```

6.

8.2.

Motif	Logo	3 Top hits in databases
oligos_6nt_mkv2_m1		<u>versus iaspar core nonredundant vertebrates:</u> NR2F1, NR2F2, NR4A1,
oligos_6nt_mkv2_m2		<u>versus iaspar core nonredundant vertebrates:</u> NR2F1, PAX5, RORB,
oligos_6nt_mkv2_m3		<u>versus iaspar core nonredundant vertebrates:</u> ELF5, EWSR1_FLI1, SPIB,
oligos_6nt_mkv2_m4		<u>versus iaspar core nonredundant vertebrates:</u> SP1, ZNF740, KLF5,
oligos_6nt_mkv2_m5		<u>versus iaspar core nonredundant vertebrates:</u> Arid5a, FOXB1, FOXC1,
oligos_7nt_mkv2_m1		<u>versus iaspar core nonredundant vertebrates:</u> RORA, RORC, RORA_var_2_,
oligos_7nt_mkv2_m2		<u>versus iaspar core nonredundant vertebrates:</u> LIN54,
oligos_7nt_mkv2_m3		<u>versus iaspar core nonredundant vertebrates:</u> NR2F2, NR4A1, Esrrg,
oligos_7nt_mkv2_m4		<u>versus iaspar core nonredundant vertebrates:</u> FOXP2, FOXP1, FOXO3,
oligos_7nt_mkv2_m5		<u>versus iaspar core nonredundant vertebrates:</u> FOSB_JUN, FOSL2_JUN_var_2_, CREB1,

8.3.

Motif	Logo	3 Top hits in databases
oligos_6nt_mkv2_m1		<u>versus iaspar core nonredundant vertebrates:</u> FOXK1, FOXA1, FOXP1,
oligos_6nt_mkv2_m2		<u>versus iaspar core nonredundant vertebrates:</u> FOXA1, Foxj3, FOXC2,
oligos_6nt_mkv2_m3		<u>versus iaspar core nonredundant vertebrates:</u> Foxj3, FOXP2, FOXP1,
oligos_6nt_mkv2_m4		<u>versus iaspar core nonredundant vertebrates:</u> MZF1,
oligos_6nt_mkv2_m5		<u>versus iaspar core nonredundant vertebrates:</u> SP1, KLF5, ZNF740,
oligos_7nt_mkv2_m1		<u>versus iaspar core nonredundant vertebrates:</u> Arid5a, FOXB1, FOXC1,
oligos_7nt_mkv2_m2		<u>versus iaspar core nonredundant vertebrates:</u> FOXP1, FOXK1, FOXC2,
oligos_7nt_mkv2_m3		<u>versus iaspar core nonredundant vertebrates:</u> FOXP1, FOXK2, FOXP2,
oligos_7nt_mkv2_m4		<u>versus iaspar core nonredundant vertebrates:</u> FOXA1, FOXF2, Foxj3,
oligos_7nt_mkv2_m5		<u>versus iaspar core nonredundant vertebrates:</u> Arid5a, FOXB1, FOXC1,

9.2.

Es stechen 2 Sequenzen hervor: zum einen AGGTCAC relativ am Anfang immer und am Ende ist es TGACC