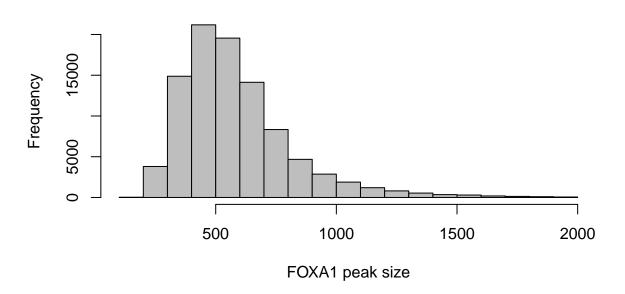
## 3.1 number of peaks in FOXA1: 95314

3.2

mean: 594.9 median: 538.0 max: 98453.0

3.4

## Histogram of width(FOXA1)



4.3 8176 peaks of ER and FOXA1 overlap 6

Human p<br/>53 Entrez: 7157

R code:

p53 <- 7157 p53 %in% ER.genes\$gene\_id

returns False

According to this data, ER does not bind to the promotor of the p53 gene.

8.2 ER motifs:

Motif	Logo	3 Top hits in databases
oligos_6nt_mkv2_m1	STORMAN ACCOUNTS OF THE STORMA	versus jaspar core nonredundant vertebrates: NR2F1, NR2F2, NR4A1,
oligos_6nt_mkv2_m2	GGGTCAGG	versus jaspar core nonredundant vertebrates: NR2F1, PAX5, RORB,
oligos_6nt_mkv2_m3	AAGGAAGG	versus jaspar core nonredundant vertebrates: ELF5, EWSR1_FLI1, SPIB,
oligos_6nt_mkv2_m4	ST With the State of	versus jaspar core nonredundant vertebrates: SP1, ZNF740, KLF5,
oligos_6nt_mkv2_m5	By AAATAT BY	versus jaspar core nonredundant vertebrates: Arid5a, FOXB1, FOXC1,
oligos_7nt_mkv2_m1	STORY STATE OF THE	versus jaspar core nonredundant vertebrates: RORA, RORC, RORA_var_2_,
oligos_7nt_mkv2_m2	go TTTTAAAA	versus jaspar core nonredundant vertebrates: LIN54,
oligos_7nt_mkv2_m3	CAGGTCAGG	versus jaspar core nonredundant vertebrates: NR2F2, NR4A1, Esrrg,
oligos_7nt_mkv2_m4	Sign, 7m, mix2, mi Sign AGCAAAC 9 To star	versus iaspar core nonredundant vertebrates: FOXP2, FOXP1, FOXO3,
oligos_7nt_mkv2_m5	Sign, Tot. and 12 and 2 and 2 and 2 and 3 and 4 and 4 and 5	versus jaspar core nonredundant vertebrates: FOSB_JUN, FOSL2_JUN_var_2_, CREB1,

8.3 FOXA1 motifs:

Motif	Logo	3 Top hits in databases
oligos_6nt_mkv2_m1	3 digas, Mar, and 7, and 3 digas, Mar, and 7, and 3 digas, Mar, and 7 digas, Mar, and 1 digas, Mar, an	versus jaspar core nonredundant vertebrates: FOXK1, FOXA1, FOXP1,
oligos_6nt_mkv2_m2	AA CAAA AA	versus jaspar core nonredundant vertebrates: FOXA1, Foxj3, FOXC2,
oligos_6nt_mkv2_m3	TARA AATTAA, , , ,	versus jaspar core nonredundant vertebrates: Foxj3, FOXP2, FOXP1,
oligos_6nt_mkv2_m4	Sign day not not not to the total of the tot	versus jaspar core nonredundant vertebrates: MZF1,
oligos_6nt_mkv2_m5	ST CCTCCC ST	versus jaspar core nonredundant vertebrates: SP1, KLF5, ZNF740,
oligos_7nt_mkv2_m1	TAMATATI A STATE OF S	versus jaspar core nonredundant vertebrates: Arid5a, FOXB1, FOXC1,
oligos_7nt_mkv2_m2	algun, Sar, and 2, and 2	versus jaspar core nonredundant vertebrates: FOXP1, FOXK1, FOXC2,
oligos_7nt_mkv2_m3	States To the late of the late	versus jaspar core nonredundant vertebrates: FOXP1, FOXK2, FOXP2,
oligos_7nt_mkv2_m4	digue, Set, select, and	versus jaspar core nonredundant vertebrates: FOXA1, FOXF2, Foxj3,
oligos_7nt_mkv2_m5	St size	versus jaspar core nonredundant vertebrates: Arid5a, FOXB1, FOXC1,

9.2 ESR1 in vertebrata: xxAGGTCACxxxGACCxx