Chapter 10. Two tasks



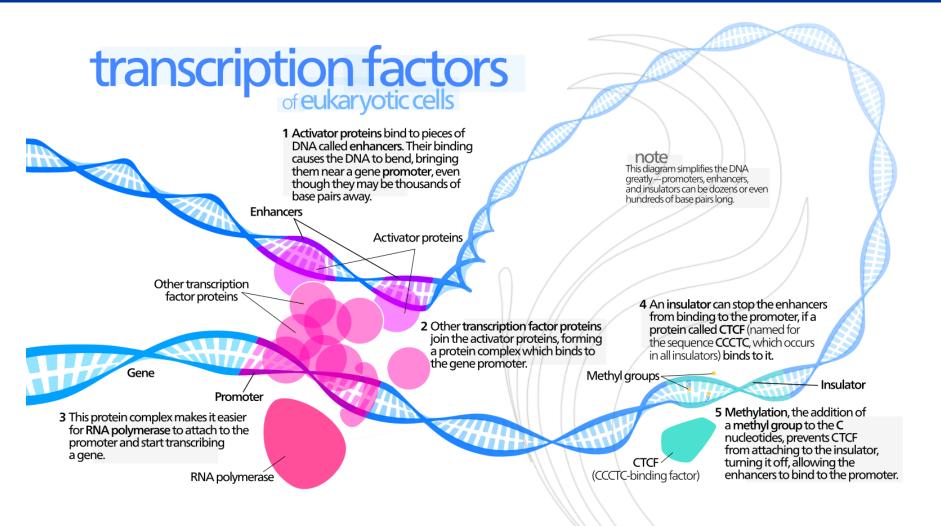
10.1 A classification problem

10.2 A regression problem



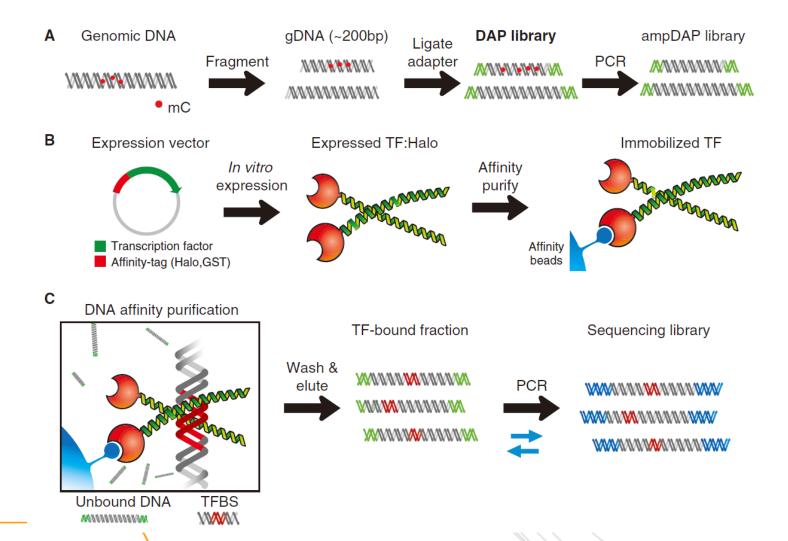
10.1 A classification problem





Dap-Seq





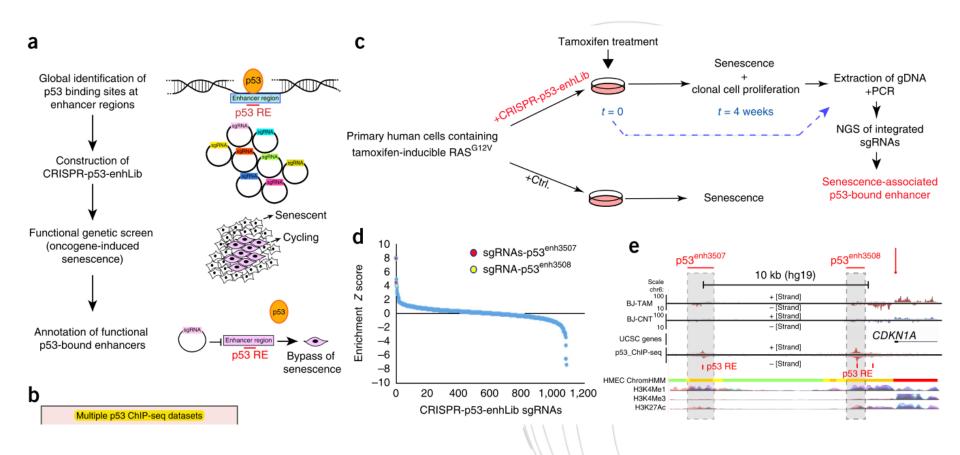
Data



- 1 >chr2 9886 10087
- 2 AGAACCAGAAGAGAATGCTTGGGGAGATAGAAGTGTGAGATAGTTCTCAAGCTAAGAAAGTTGTAAAAAGCTAAGAACTAGCA
- 3 >chr2 12108196 12108397
- 5 >chr3 13591901 13592102
- 6 TTTTGGAGTCGAATATGACTTGATGTCATGTGTATGATTGAGTATAAGAACTTAAACCGCAACCCGATCTTAAAGGCGTAAG
- 7 >chr1 4264510 4264711
- 9 >chr3 22929346 22929547
- 10 GCTGGTATTGAATACGAGTTGGGCCCATTTAACTGTGAGGCAACGAGCCGATCCAAAGCGGCCCAGCTAGTGATGAAGCTGG

10.2 A Regression problem





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p53 chipseq ALL 3101 Hit1 chr3 194751916 194751934 7.87
p53 chipseq ALL 3507 Hit1 chr6 36635046 36635064 7.80
p53 chipseq ALL 55 Hit1 chr1 28678988 28679006 4.92
p53 chipseq ALL_3507_Hit3 chr6 36635031 36635049 4.45
p53 chipseq ALL 3508 Hit1 chr6 36644238 36644256 4.20
p53 chipseq ALL 3519 Hit2 chr6 43064432 43064450 3.89
p53 chipseq ALL 528 Hit1 chr10 92737319 92737337 3.79
p53 chipseq ALL 3962 Hit1 chr8 124624776 124624794 2.86
p53 chipseq ALL 632 Hit1 chr11 34707149 34707167 2.79
p53 chipseq ALL 610 Hit1 chr11 9824009 9824027 2.76
p53 chipseq ALL 1094 Hit1 chr14 51067111 51067129 2.69
p53 chipseq ALL 3614 Hit1 chr7 5469022 5469040 2.50
p53 chipseq ALL 356 Hit1 chr1 205267611 205267629 2.36
p53 chipseq ALL 1857 Hit2 chr17 78668087 78668105 2.32
p53 chipseq ALL 1123 Hit2 chr14 65147167 65147185 2.30
p53 chipseq ALL 1646 Hit2 chr17 38738721 38738739 2.28
p53 chipseq ALL 1843 Hit1 chr17 67866978 67866996 2.24
p53_chipseq_ALL_3304_Hit2 chr5 71203164 71203182 1.95
p53 chipseq ALL 3635 Hit1 chr7 25011028 25011046 1.93
p53 chipseq ALL 3288 Hit1 chr5 56363561 56363579 1.67
p53 chipseq ALL 3602 Hit2 chr7 579659 579677 1.64
p53 chipseq ALL 1298 Hit2 chr15 52121580 52121598 1.62
p53 chipseq ALL 1643 Hit2 chr17 38627789 38627807 1.62
p53 chipseq ALL 3118 Hit1 chr4 1772665 1772683 1.58
p53 chipseq ALL 3023 Hit1 chr3 151555114 151555132 1.57
```

Supplementary Data. The genomic positions of 1130 sgRNAs and their experimental				
sgRNA	chromosome	Start	End	Experimental Z-score
p53_chipseq_ALL_3101_Hit1	chr3	194751916	194751934	7.87
p53_chipseq_ALL_3507_Hit1	chr6	36635046	36635064	7.8
p53_chipseq_ALL_55_Hit1	chr1	28678988	28679006	4.92
p53_chipseq_ALL_3507_Hit3	chr6	36635031	36635049	4.45
p53_chipseq_ALL_3508_Hit1	chr6	36644238	36644256	4.2
p53_chipseq_ALL_3519_Hit2	chr6	43064432	43064450	3.89
p53_chipseq_ALL_528_Hit1	chr10	92737319	92737337	3.79
p53_chipseq_ALL_3962_Hit1	chr8	124624776	124624794	2.86
p53_chipseq_ALL_632_Hit1	chr11	34707149	34707167	2.79
p53_chipseq_ALL_610_Hit1	chr11	9824009	9824027	2.76
p53_chipseq_ALL_1094_Hit1	chr14	51067111	51067129	2.69
p53_chipseq_ALL_3614_Hit1	chr7	5469022	5469040	2.5
p53_chipseq_ALL_356_Hit1	chr1	205267611	205267629	2.36
p53_chipseq_ALL_1857_Hit2	chr17	78668087	78668105	2.32
p53_chipseq_ALL_1123_Hit2	chr14	65147167	65147185	2.3
p53_chipseq_ALL_1646_Hit2	chr17	38738721	38738739	2.28
p53_chipseq_ALL_1843_Hit1	chr17	67866978	67866996	2.24
p53 chipseg ALL 3304 Hit2	chr5	71203164	71203182	1.95

