The sceUpstr support in package harbChIP

HJB/VJC

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1

Contents

1 Introduction

2	Building the sceUpstr object	1
4	bunding the secopsir object	1
3	Checking a finding of Harbison et al.	2
1	Introduction	
Th	ne intent of this package is to allow code like the following:	
>	library(harbChIP) data(sceUpstr) sceUpstr	
Th fi	streamSeqs instance, organism sce ere are 6674 entries rst keys:] "YAL001C" "YAL002W" "YAL003W" "YAL004W" "YAL005C"	
>	getUpstream("YAL001C", sceUpstr)	
50	ALOO1C O-letter DNAString object q: CTGTACCACTATAATAATTTATCTTGATCGTATTATAGGACGTTTGGTTGAAGCCAACTAGCCACAA	AGAAAA

2 Building the sceUpstr object

Upstream sequences of length 500bp were obtained from the SGD website: www.yeastgenome.org -> Download Data -> FTP sequence/genomic_sequence/orf_dna/archive/utr5_sc_500.20040206.fasta.gz

```
> fname = system.file("extdata/utr5_sc_500_20040206.fasta", package="sceUpstr")
> utr5 = readFASTA(fname)
> sceUpstr = buildUpstreamSeqs2(utr5)
> save(sceUpstr, file="sceUpstr.rda")
```

3 Checking a finding of Harbison et al.

It is asserted in Fig 1 B of the paper that GGCGCTA is specifically bound by Snt2. We will examine the frequency of this heptamer in upstream regions and relate to the binding ratio distribution.