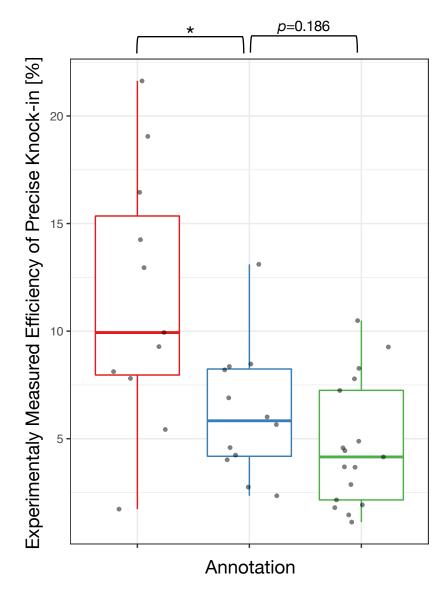
## PITCh designer 2.1 can Add Efficiency Annotations to the Knock-in Designs

## Example of PITCh designer result

Name	Sequence(5' ->3')
sgRNA target sequence (plus strand)	CTCTTAGGGCTGGGGTGCGGCGG >>>Check sgRNA specificity against genomic DNA using CRISP
Left microhomology	GGCATCCACCACGGGACTCTTAGGGCTGGGGTGCGG
Right microhomology	GGGGAGGACGCCATTGAGGGTTCTGGGTTCTGCAGGGG
Desirable labels	The PAM-distal G nucleotide in the plus strand
Undesirable labels	None



## Annotation

Knock-in Designs including "Desirable" labels (n=11)

Knock-in Designs without any labels (n=12)

Knock-in Designs including "Undesirable" labels (n=17)

\*: paired t-test, *p*<0.05