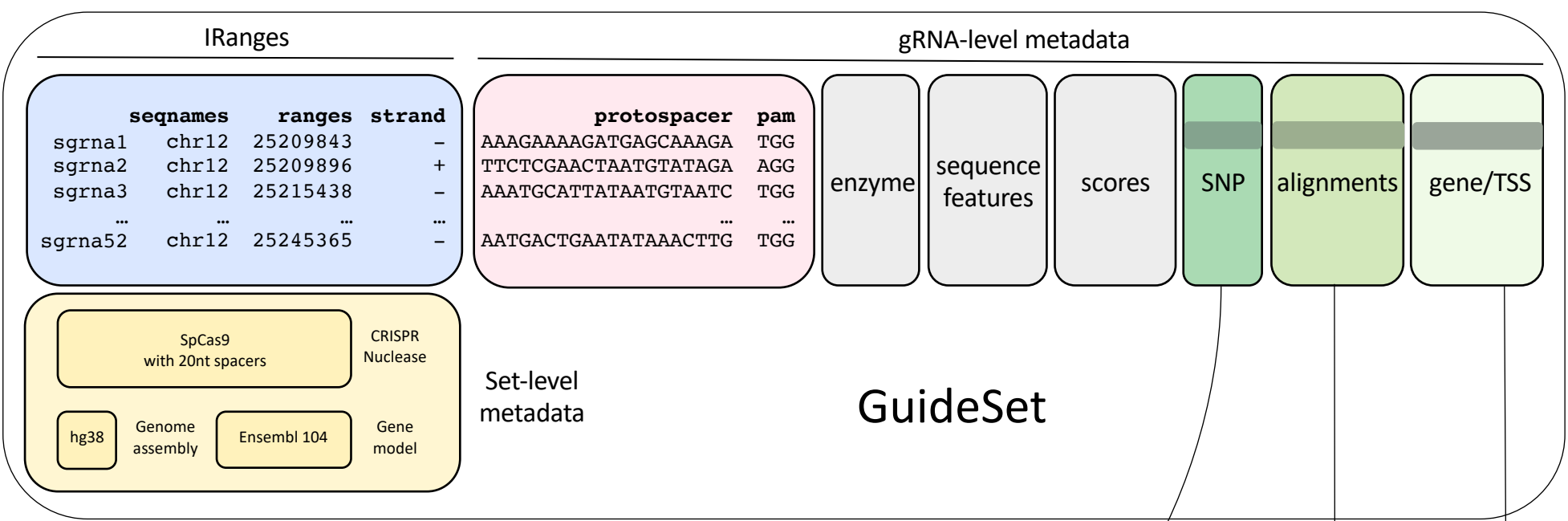


a



b

Overlapping SNPs for gRNA1

seqnames	pos	id	ref	alt	MAF_1000G	MAF_TOPMED	site_rel
chr12	25209843	rs1137282	A	G	0.1755	0.1967	0

SNP identity Minor Allele frequencies Position relative to PAM site

On- and off-target alignments for gRNA1

seqnames	ranges	strand	spacer	protospacer	pam	mm1	mm2	mm3	cds	exon	cfd	mit
chr12	25209843	-	AAAGAAAAGATGAGCAAAGA	AAAGAAAAGATGAGCAAAGA	TGG	NA	NA	NA	KRAS	KRAS	1.0	1.0
chr6	54771089	+	AAAGAAAAGATGAGCAAAGA	AAATAAAAGATGAGCAAAGA	TGG	-17	NA	NA		KRAS P1	0.4	0.6
chr4	128123140	-	AAAGAAAAGATGAGCAAAGA	AAAGAAATGAGGAGCCAAGA	AGG	-13	-10	-5		LARP1B	0.0	0.0
...

off-target coordinate sequence information mismatch information genomic context off-target scores

Gene annotation for gRNA1

seqnames	anchor	strand	gene_symbol	gene_id	tx_id	cut_cds	cut_3UTR	%Cds	%Tx	aa	commonExon	ATG
chr12	25209846	-	KRAS	ENSG00000133703	ENST00000256078	FALSE	TRUE	-	15.3	-	FALSE	-
chr12	25209846	-	KRAS	ENSG00000133703	ENST00000311936	TRUE	FALSE	91.0	13.3	172	FALSE	1
chr12	25209846	-	KRAS	ENSG00000133703	ENST00000557334	TRUE	FALSE	77.6	35.6	59	FALSE	1

Ensembl gene and transcript info CDS and Tx info

c

