

Supplemental Table 1. The six CRISPR pooled screen datasets used for benchmarking mapabilities of each method.

Study name	sgRNA length	Number of sgRNAs	Accession ID	Data identifier	Total read counts
Koike-Yusa et al. (2014)	19	87,437	ERR376998	Plasmid	10,093,905
Evers et al. (2016)	20	961	SRR3341899	RT112	32,126,809
Golden et al. (2017)	20	65,383	SRR5027845	ANKRD52 KO (LibA1)	25,927,307
Golden et al. (2017)	20	58,028	SRR5027846	ANKRD52 KO (LibB1)	17,471,047
Golden et al. (2017)	20	65,383	SRR5027849	ANKRD52 KO (LibA2)	26,009,567
Golden et al. (2017)	20	58,028	SRR5027850	ANKRD52 KO (LibB2)	20,663,866