

Supplementary Table S2. Sequences used in Cas9/gRNA design and validation PCR

Function	Type	Sequence (5'-3')
Cas9/gRNA design*	T7-promoter	TAATACGACTCACTATA
	gRNA target R1	AACCCCGGATGAGATAGACG
	gRNA target R2	GGCTCATTACGACCCTCCAG
	gRNA target R3	GGAGATCGCCACAAGATGTG
	gRNA target R4	AATATTGTTTCATAACTTGGG
	Scaffold sequence	GTTTTAGAACTAGAAATAGC
	Tracr rev sequence	AAAAAAAGCACCGACTCGGTGCCAC
Validation PCR	R1-Forward	CATCCTGCTCCTCTGAGAACTT
	R1-Reverse	CATAAAGGGCATCACCCTGTA
	R2-Forward	ATCTCAGGAGTCCATCCAAAAA
	R2-Reverse	ACATCGAATGTTACAATGGCAG
	R3-Forward	CCTCAATGGATAGTTGCTCAAA
	R3-Reverse	TGATGCCACTTCACTGCTACTT
	R4-Forward	ACAATTGCCGTAGTCGTAACCT
	R4-Reverse	CTGGCTACATAAATGCAAAGCA

* The structure of the forward primer is T7-promoter – R1/R2/R3/R4 – Scaffold sequence.