

Supplementary Table 1 | Oligonucleotides used in this study

Oligo ID	Name*	Sequence [‡]	Main Text Figures	Supplementary Figures
rGJK_004	MbCas12a pre-crRNA (24-nt T1)	GACCUUUUAAAUUUCUACUGUUUGUAGAU AAAGUGCUC AUCAUUGGAAAACGU	-	8a
rGJK_005	MbCas12a crRNA (24-nt T1)	AAUUUCUACUGUUUGUAGAU AAAGUGCUC AUCAUUGGAAAACGU	4a, 5a	8b-c, 9d
rGJK_006	LbCas12a pre-crRNA (24-nt T1)	AGAUUAAAUAUUUCUACUAAGUGUAGAU AAAGUGCUC AUCAUUGGAAAACGU	-	8a, 10c
rGJK_007	LbCas12a crRNA (24-nt T1)	AAUUUCUACUAAGUGUAGAU AAAGUGCUC AUCAUUGGAAAACGU	4a-d, 5a-c	8b-c, 9a, 9d-g, 10b
rGJK_008	AsCas12a pre-crRNA (24-nt T1)	GACCUUUUAAAUUUCUACUCUUGUAGAU AAAGUGCUC AUCAUUGGAAAACGU	-	8a
rGJK_009	AsCas12a crRNA (24-nt T1)	AAUUUCUACUCUUGUAGAU AAAGUGCUC AUCAUUGGAAAACGU	4a, 5a	8b-c, 9d
rGJK_011	LbCas12a crRNA (20-nt T1)	AAUUUCUACUAAGUGUAGAU AAAGUGCUC AUCAUUGGAAA	-	9b
rGJK_014	LbCas12a crRNA (24-nt T2)	AAUUUCUACUAAGUGUAGAU GCUC CAGAUUUAUCAGCAAUAAAC	2b, 2c	5b-d, 9a
rGJK_016	MbCas12a crRNA (20-nt T3)	AAUUUCUACUGUUUGUAGAU GAUCGU ACGCUAACUAUGA	1c	3a
rGJK_017	LbCas12a crRNA (20-nt T3)	AAUUUCUACUAAGUGUAGAU GAUCGU ACGCUAACUAUGA	1b-d, 2a, 2d, 2e, 3a-b	1a-d, 3b, 4a-b, 6a-c, 7a-d
rGJK_018	AsCas12a crRNA (20-nt T3)	AAUUUCUACUCUUGUAGAU GAUCGU ACGCUAACUAUGA	1c	3c
rGJK_021	LbCas12a crRNA (18-nt T1)	AAUUUCUACUAAGUGUAGAU AAAGUGCUC AUCAUUGGA	-	9b
rGJK_022	LbCas12a crRNA (12-nt T1)	AAUUUCUACUAAGUGUAGAU AAAGUGCUC AUC	-	9b
rGJK_023	LbCas12a crRNA (6-nt T1)	AAUUUCUACUAAGUGUAGAU AAAGUG	-	9b
rGJK_035	LbCas12a crRNA (4-nt T3)	AAUUUCUACUAAGUGUAGAU GAUC	-	10a
rGJK_036	crRNA spacer (16-nt T3)	GUUACGCUAACUAUGA	-	10a
dGJK_001	NT-DNA strand (24-nt T1)	GTGGCCGTTTAA AGTGCT CATCATTGGAAAACGTAGGATGGGCACCAC	-	8c
dGJK_002	T-DNA strand (24-nt T1)	GTGGTGCCCATCCTAC GT TTTCCAATGATGAGCACTTTTAAACGGCCAC	-	8c
dGJK_006	NT-DNA strand (T3)	GACGACAAAAC TT AGAT CGTT ACGCTAACTATGAGGGCTGTCTGTGGAATGCTA	1b-c, 2a, 2d-e, 3a-b	1a-d, 5a, 6a-c, 7a, 7d
dGJK_007	T-DNA strand (T3)	TAGCATTCCACAGACAGCC CT CATAG TT AGCGTAACGATCTAAAGTTTTGTCTGTC	1b-d, 2a, 2d-e, 3a-b	1a-d, 3a-c, 4a-b, 5a, 6a-c, 7a-d
dGJK_010	NT-DNA strand (T3) Mismatched all	GACGACAAAAC TT ACTAGCAAT GG ATTGATACTGGGCTGTCTGTGGAATGCTA	-	7a-b
dGJK_012	NT-DNA strand (T3) Mismatched 5'	GACGACAAAAC TT ACTAG CT TACGCTAACTATGAGGGCTGTCTGTGGAATGCT A	-	7c
dGJK_013	NT-DNA strand (T3) Mismatches 3'	GACGACAAAAC TT AGAT CGTT ACGCTAACTACTGGGCTGTCTGTGGAATGCTA	-	7c
dGJK_014	NT-DNA strand (T3) Mismatches middle	GACGACAAAAC TT AGAT CGTT AGCGATACTATGAGGGCTGTCTGTGGAATGCTA	-	7c
rGJK_453	<i>trans</i> -ssRNA substrate	AUGGCAGCGCCUCUUGCAACGAUUAUUUACUGCUUCUAUATACGGCAUACACCGUUUCGG	-	9c

* Abbreviations: T1–Ampicillin resistance gene target; T2– Ampicillin resistance gene target; T3 – Target sequence used in²⁷.

‡ Spacer or targets sequences are shown in bold.