

**Table S2.** Primer information used in this study.

Use	Primer name	Primer sequence information (5'-3')
For Sanger sequencing	NbFucT1-F	GTCAAATTCAAACGCACCCA
	NbFucT1-R	ATCCCTCGAATAAGCCACAG
	NbXylT1-F	GAACGTTGTTTAACCCTCTG
	NbXylT1-R	ATATCGTCCGGATTTCATTCG
For targeted deep sequencing	NbFucT1-1st-F	ATGAGATCGGCGTCAAATTCAAACG
	NbFucT1-1st-R	ATCCCTCGAATAAGCCACAGAATC
	NbFucT1-2nd-F	ACACTCTTCCCTACACGACGCTCTTCCGATCTCAAACGCACCCAATAAGCA
	NbFucT1-2nd-R	GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTTGATAAAACGATTGGGC
	NbXylT1-1st-F	GAACGTTGTTTAACCCTCTGTAGTC
	NbXylT1-1st-R	ATATCGTCCGGATTTCATTCGTATTGC
	NbXylT1-2nd-F	ACACTCTTCCCTACACGACGCTCTTCCGATCTTCGCTCTCAACTCAATC
	NbXylT1-2nd-R	GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTTGGAATATTGAG
Cas9 detection	Cas9-F	CCCACCATCTACCATCTGCG
	Cas9-R	ATGTCCTCGTTCTCCTCGTTGT