

**Table S1** Primers used in the study.

Primer	Sequence	Use
gRNA- $\alpha$ -AMY-Fw	5'-GTCCCAGGGCATGCTATGGAGTTTTAGAGCTAGAAATAGC-3'	To construct the $\alpha$ -AMY specific CRISPR plasmid
gRNA- $\alpha$ -AMY-Rv	5'-AACTTGACATCCCCATTTAC-3'	To construct the $\alpha$ -AMY specific CRISPR plasmid
PUC19-Fw	5'-GGCGTAATCATGGTCATAGC-3'	Amplification of pUC19 for Gibson assembly
PUC19-Rv	5'-ACTGGCCGTCGTTTTACAAC-3'	Amplification of pUC19 for Gibson assembly
loxp-DHFR* -loxp-Fw	5'-CAACCCGCGCAGAAGACATC-3'	Amplification of loxp-DHFR* -loxp for Gibson assembly
loxp-DHFR* -loxp-Rv	5'-GGACACGCTGAACTTGTGGC-3'	Amplification of loxp-DHFR* -loxp for Gibson assembly
U5 $\alpha$ -AMY-Fw	5'-GTTGTAAAACGACGGCCAGTAAGCGCCAGAGGTCGCAGTT-3'	Amplification of 5'-homology of $\alpha$ -AMY for p $\alpha$ -AMY:loxp-DHFR* -loxp construction
U5 $\alpha$ -AMY-Rv	5'-GATGTCTTCTGCGCGGGTTGGTTCCAGAAGTTCTGCGTC-3'	Amplification of 5'-homology of $\alpha$ -AMY for p $\alpha$ -AMY:loxp-DHFR* -loxp construction

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U3 $\alpha$ -AMY-Rv	5'-GCCACAAGTTCAGCGTGTCCAGAAAGTTCTTTTCAAGTCTC-3'	Amplification of 3'-homology of $\alpha$ -AMY for p $\alpha$ -AMY:loxp-DHFR*-loxp construction
U3 $\alpha$ -AMY-Rv	5'-GCTATGACCATGATTACGCCGGTGTACAAGAGGAACATGA-3'	Amplification of 3'-homology of $\alpha$ -AMY for p $\alpha$ -AMY:loxp-DHFR*-loxp construction
5'-UpU5 $\alpha$ -AMY	5'-TGCACAAGATGCATGTACCTG-3'	PCR1 of $\Delta\alpha$ -amy
3'-In DHFR*	5'-GATTTGTGAGGACGACTCAC-3'	PCR1 of $\Delta\alpha$ -amy
5'-In DHFR*	5'-CACGACAGCAGACAACCTTTC-3'	PCR2 of $\Delta\alpha$ -amy
3'-DnU3 $\alpha$ -AMY	5'-CTCTGTGTTCTCGGGTGTCA-3'	PCR2 of $\Delta\alpha$ -amy
In- $\alpha$ -AMY-Fw	5'-GTAGCTTCAAGAAACAGTTCACAG-3'	PCR3 of $\Delta\alpha$ -amy
In- $\alpha$ -AMY-Rv	5'-CGAGTCGAAACCAGCGCTGTTGC-3'	PCR3 of $\Delta\alpha$ -amy
Vec-Fw	5'-GAGGTCCACACGAACCAGGAC -3'	Amplification of pTub-YFP-CAT for pComp- $\alpha$ -AMY construction
Vec-Rv	5'-CTTGCTCACCATTTTAGATC-3'	Amplification of pTub-YFP-CAT for pComp- $\alpha$ -AMY

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		construction
$\alpha$ -AMY-CDS-Fw	5'-GATCTAAAATGGTGAGCAAGATGGGAGATCTTCGAGCATC-3'	Amplification of $\alpha$ -AMY CDS for pTub-YFP-CAT for pComp- $\alpha$ -AMY construction
$\alpha$ -AMY-CDS-Rv	5'-GTCCTGGTTCGTGTGGACCTCCTCCTGGCGCTCGTAAACAG-3'	Amplification of $\alpha$ -AMY CDS for pTub-YFP-CAT for pComp- $\alpha$ -AMY construction
$\alpha$ -AMY-Fw	5'-CTTGTCAGCTGTCTCCTCCGGTGC-3'	PCR4 of pComp- $\alpha$ -AMY
$\alpha$ -AMY-Rv	5'-CCAACCTTGTCACCAGCGTCTCG-3'	PCR4 of pComp- $\alpha$ -AMY
RT- $\beta$ -tubulin-Fw	5'-CACTGGTACACGGGTGAAGGT-3'	$\beta$ -tubulin-based qPCR
RT- $\beta$ -tubulin-Rv	5'-ATTCTCCCTCTTCCTCTGCG-3'	$\beta$ -tubulin-based qPCR

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