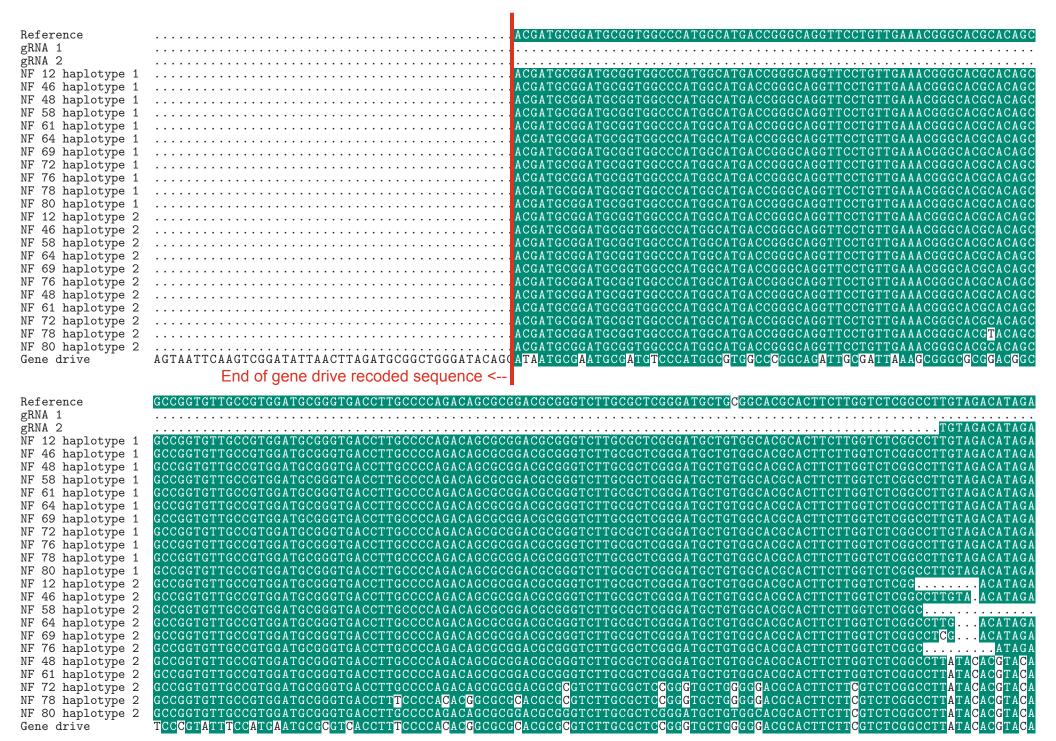
Deference	
Reference gRNA 1	TA.ATACAACCCAATTGTCGGACAGAA
gRNA 2	
NF 12 haplotype 1	TA.ATACAACCCAATTGTCGGACAGAA
NF 46 haplotype 1	TA.ATACAACCCAATT
NF 48 haplotype 1	TA.ATACAACCCAATT
NF 58 haplotype 1	TA ATACAACCCAATT
NF 61 haplotype 1	TA ATACAACCCAATT
NF 64 haplotype 1	TA.ATACAACCCAATT
NF 69 haplotype 1	TA ATACAACCCAATT
NF 72 haplotype 1	TA.ATACAACCCAATT
NF 76 haplotype 1	TGTTA ATACAACCCAATT
NF 78 haplotype 1	TA ATACAACCCAATT
NF 80 haplotype 1	TA.ATACAACCCAATT
NF 12 haplotype 2	TA.ATACAACCCAATT
NF 46 haplotype 2	TA.ATACAACCCAATT
NF 58 haplotype 2	TA.ATACAACCCAATT
NF 64 haplotype 2	TA.ATACAACCCAATT
NF 69 haplotype 2	TA.ATACAACCCAATT
NF 76 haplotype 2	
NF 48 haplotype 2	TA.ATACAACCCAATT
NF 61 haplotype 2	TA.ATACAACCCAATT
NF 72 haplotype 2	TA.ATACAACCCAATTGTCGGACAGAG
NF 78 haplotype 2	TACATACAACCCAATT
NF 80 haplotype 2	TA.ATACAACCCAATTGTCGGACAGAG
Gene drive	TTGGATCCTAATTGAATTAGCTCTAATTGAATTAGTCTCTAATTGAATTAGATCCCGGGAGTAGGGAAAGTCAAACCGAAACCGAACAGCCATCAATCGATATACAGATT
Reference	AAGGTGTTTTGAACTA
gRNA 1	
gRNA 1 gRNA 2	
gRNA 1 gRNA 2 NF 12 haplotype 1	AAGGTGTTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1	AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1	AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1	AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1	AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1	AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1	AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1	AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1	AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1	AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1	AAGGTGTGTTTGAACTA AAGGTGTGTTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 2	AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 2 NF 46 haplotype 2	AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2	AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 2 NF 46 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 58 haplotype 2 NF 64 haplotype 2	AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 78 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 58 haplotype 2 NF 64 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2	AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 58 haplotype 2 NF 69 haplotype 2	AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 78 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 58 haplotype 2 NF 64 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2	AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 69 haplotype 2 NF 61 haplotype 2 NF 76 haplotype 2	AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTGAACTA AAGGTGTTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 69 haplotype 2 NF 64 haplotype 2 NF 65 haplotype 2 NF 67 haplotype 2 NF 76 haplotype 2 NF 78 haplotype 2 NF 78 haplotype 2 NF 78 haplotype 2	AAGGTGTTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTGAACTA AAGGTGTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 64 haplotype 2 NF 65 haplotype 2 NF 66 haplotype 2 NF 67 haplotype 2 NF 68 haplotype 2 NF 76 haplotype 2 NF 78 haplotype 2	AAGGTGTTTGAACTA AAGGTGTTTTGAACTA
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 69 haplotype 2 NF 64 haplotype 2 NF 65 haplotype 2 NF 67 haplotype 2 NF 76 haplotype 2 NF 78 haplotype 2 NF 78 haplotype 2 NF 78 haplotype 2	AAGGTGTTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTGAACTA AAGGTGTGTTGAACTA AAGGTGTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA AAGGTGTGTTTGAACTA



Reference gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 64 haplotype 2 NF 69 haplotype 2 NF 76 haplotype 2 NF 48 haplotype 2 NF 61 haplotype 2 NF 72 haplotype 2 NF 78 haplotype 2 NF 80 haplotype 2 Gene drive

CGCAACGC...... ${\tt CGCAACGC}$ TTCCCAACGTAGAAGGATCCGTGCTCCTTGCGGCGGCCCCTCAATCTGCAATGTAATATGTTGGTTAATCAATTACATTACTAAAATGTTTTTACAGAAC <u>CGCAACGCTTCCCAACGTAGAAGGATCCG</u>TGCTCCTTGCGGCGGGCGCCCTCAATCTGCAATGTAATATGTTGGTTAATCAATTACATTACTAAAATGTTTTTACAGAAC CGCAACGCTTCCCAACG<mark>.</mark>AGAAGGATCCGTGCTCCTTGCGGCGGGCGCCCTCAATCTGCAATGTAATATGTTGGTTAATCAATTACATTACTAAAATGTTTTTACAGAAC CGCAACGCTTCCCAAC<mark>.....</mark>GGATCCGTGCTCCTTGCGGCGGGCGCCCTCAATCTGCAATGTAATATGTTGGTTAATCAATTACATTACATAAAATGTTTTTACAGAAC ${ t CGCAACGCT}......$ ${ t CCGTGCTCCTTGCGGCGGGCGCCCTCAATCTGCAATGTAATATGTTGGTTAATCAATTACATTACATAAAATGTTTTTACAGAAC$ ${\tt CGCAACGCT}$ $\overline{{\tt CCCAAC}}$ \ldots $\overline{{\tt GAAGGA}}$ $\overline{{\tt CCGTGCTCCTTGCGGCGGCGCCCTCAATCTGCAATGTAATATGTTGGTTAATCAATTACATTACTAAAATGTTTTTACAGAAC$ CGCAACGCTTCCCAAC<mark>...GG</mark>AGGATCCGTGCTCCTTGCGGCGGGCGCCCTCAATCTGCAATGTAATATGTTGGTTAATCAATTACATTACTAAAATGTTTTTACAGAAC C<mark>A</mark>CA<mark>G</mark>CGCTT<mark>G</mark>CC<mark>C</mark>AC<mark>A</mark>TAGAAGGATCCGTGCTCCTTGCGGCGGCGCCCTCAATCTGCAATGTAATATGTTGGTTAATCAATTACATTACTAAAATGTTTTTACAGAAC C<mark>acag</mark>cgctt<mark>g</mark>cc<mark>c</mark>ac<mark>a</mark>tagaaggatccgtgctccttgcggcggcgccctcaatctgcaatgtaatatgttggttaatcaattacattactaaaatgtttttacagaac

Reference gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 64 haplotype 2 NF 69 haplotype 2 NF 76 haplotype 2 NF 48 haplotype 2 NF 61 haplotype 2 NF 72 haplotype 2 NF 78 haplotype 2 NF 80 haplotype 2 Gene drive

TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGC<u>CTGGTTCTCGTGCTGGTTCCTCAGACC</u> TGGAATGTATTAATTATTTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTT<mark>A</mark>AAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACC*A* TGGAATGTATTAATTATTTTTAAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA TGGAATGTATTAATTATTTGAAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGGCCTGGTTCTCGTGCTGGTTCCTCAGACCA

TGGAATGTATTAATTATTTTGAAAACTCTGTGAAGTCCGGACCCATCACATTGAAGTATAGACATACCTTGAGGATGCCTGGTTCTCGTGCTGGTTCCTCAGACCA

TGG A A TGT A TT A TT A TT TTG A A A A CTCTG TG A A GTCCGG A CCCATC A CATTG A A GTATA GA CATA CCTTG A GG A TGGCCTGGTTCTCGTGCTGGTTCCTCA G A CCA

Reference	CGCTTGTAGCCGGTGAAGACGGC
gRNA 1	
gRNA 2	
NF 12 haplotype 1	CGCTTGTAGCCGGTGAAGACGGC
NF 46 haplotype 1	CGCTTGTAGCCGGTGAAGACGGC
NF 48 haplotype 1	CGCTTGTAGCCGGTGAAGACGGC
NF 58 haplotype 1	CGCTTGTAGCCGGTGAAGACGGC
NF 61 haplotype 1	CGCTTGTAGCCGGTGAAGACGGC
NF 64 haplotype 1	CGCTTGTAGCCGGTGAAGACGGC
NF 69 haplotype 1	CGCTTGTAGCCGGTGAAGACGGC
NF 72 haplotype 1	CGCTTGTAGCCGGTGAAGACGGC
NF 72 haplotype 1	CGCTTGTAGCCGGTGAAGAC
NF 78 haplotype 1	CGCTTGTAGCCGGTGAAGACGGC
NF 80 haplotype 1	CGCTTGTAGCCGGTGAAGACGGC
NF 12 haplotype 2	
NF 46 haplotype 2	CGCTTGTAGCCGGTGAAGACGGCC
NF 58 haplotype 2	CGCTTGTAGCCGGTGAAGACGGCCTTGGCGAAGAGGCGTCCGT
NF 64 haplotype 2	
NF 69 haplotype 2	
NF 76 haplotype 2	
NF 48 haplotype 2	CGCTTGTAGCCGGTGAAGACGGC
NF 61 haplotype 2	
NF 72 haplotype 2	
NF 78 haplotype 2	
NF 80 haplotype 2	CGCTTGTAGCCGGTGAAGACGGC
Gene drive	CGCTTGTAGCCGGTGAAGACGGCCTTGGCGAAGAGGCGTCCGTGACGCTTGTACTTCTTGGCGGAAACTTTAGCCTCTGAGGCGGCGGGGCTTCTCGGCCTTAGGCGCCTT
Reference	
gRNA 1	
gRNA 1 gRNA 2	
gRNA 1 gRNA 2 NF 12 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 2 NF 46 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 58 haplotype 2 NF 64 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 64 haplotype 2 NF 69 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 58 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 76 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 76 haplotype 2 NF 76 haplotype 2 NF 76 haplotype 2 NF 76 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 58 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 76 haplotype 2 NF 61 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 72 haplotype 1 NF 76 haplotype 1 NF 78 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 58 haplotype 2 NF 58 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 61 haplotype 2 NF 61 haplotype 2 NF 61 haplotype 2 NF 61 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 64 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 76 haplotype 2 NF 77 haplotype 2 NF 78 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 69 haplotype 2 NF 76 haplotype 2 NF 78 haplotype 2	
gRNA 1 gRNA 2 NF 12 haplotype 1 NF 46 haplotype 1 NF 48 haplotype 1 NF 58 haplotype 1 NF 61 haplotype 1 NF 64 haplotype 1 NF 69 haplotype 1 NF 76 haplotype 1 NF 76 haplotype 1 NF 80 haplotype 1 NF 80 haplotype 1 NF 12 haplotype 2 NF 46 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 64 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 69 haplotype 2 NF 76 haplotype 2 NF 77 haplotype 2 NF 78 haplotype 2	