

Supplementary information:

Supplementary information Figures S1-S4 and Table S1-S5.

Efficient Production of Gene-Modified Mice using *Staphylococcus aureus* Cas9

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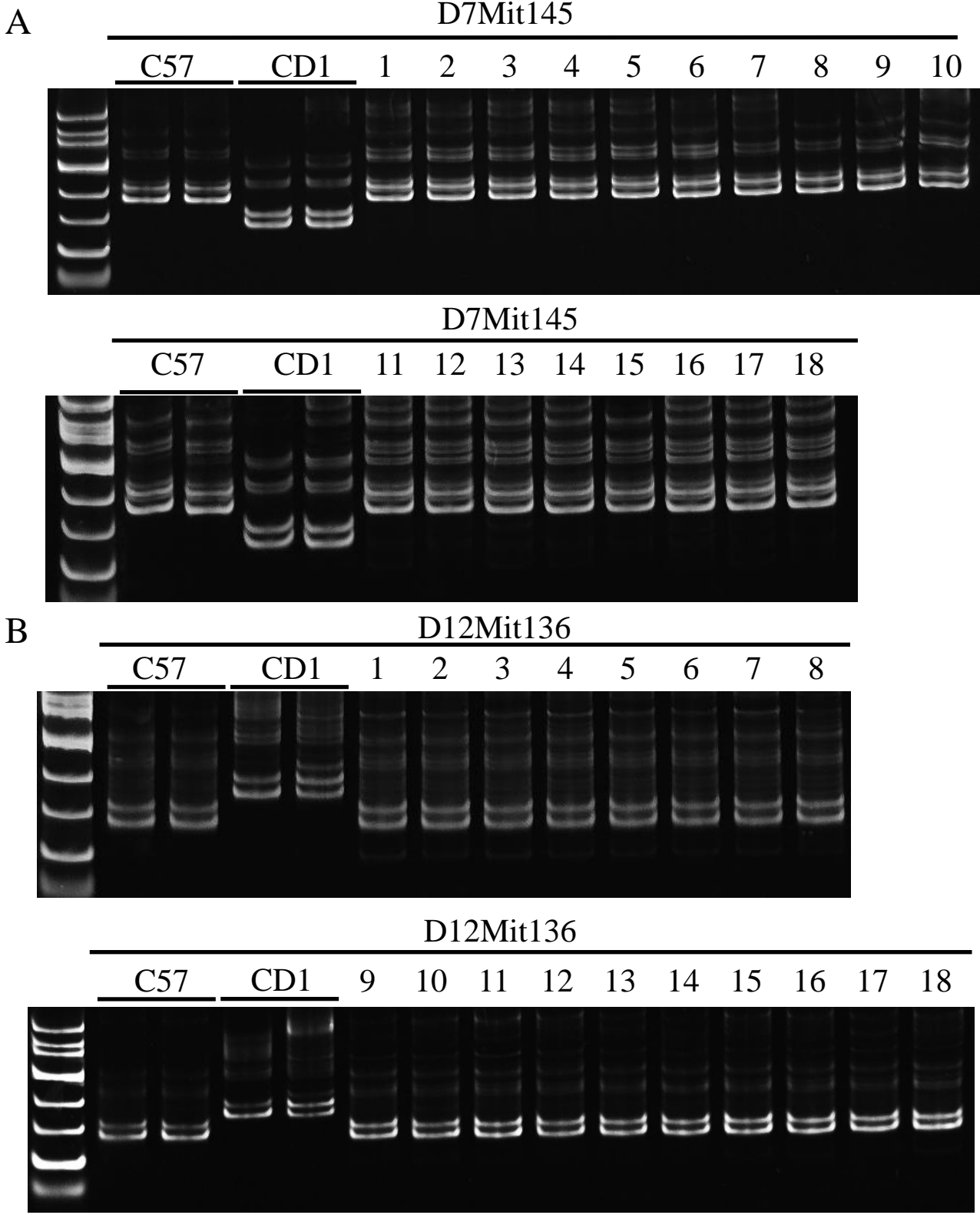
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Supplementary information, Figure S1



Microsatellite analysis confirmed that the albino and mosaic founders were C57BL/6J mice. (A) D7Mit145 sites, from albino and mosaic founders, were amplified by PCR and then electrophoresis on 10% PAGE gel. (B) Microsatellite analysis using D12Mit136 site to confirm the albino and mosaic founders were C57BL/6J.

Supplementary information, Figure S2

Tyr-SaCas9-G1

WT GTGATTTCTTCATAACATCCAAGGATCTGGGATATGACTACAGCTAC

#2
GTGATTTCTTCATAACATCCAAGGA—TGGGATATGACTACAGCTAC
GTGATTTCTTCATAACATCCAAG-----ATATGACTACAGCTAC
GTGATTTCTTCATAACATCCAAGGATATGGGATATGGGATATGACTACAGCTAC
GTGATTTCTTCATAACATCTGGG-----ATATGACTACAGCTAC
GTGATTTCTTCATAACATCTGGGG-----TATGACTACAGCTAC

#4
GTGATTTCTTCATAACATCCAAGGATCTGGGATATGACTACAGCTAC
GTGATTTCTTCATAACATCCAATTATCTGGGATATGACTACAGCTAC
GTGATTTCTTCATAACATCCA-----TGTATGACTACTATTAC
GTGATTTCTTCATAACATCCA-----GGTATGACTACAGCTAC
GTGATTTCTTCATAACATCCA-----GGATATGACTACAGCTAC
GTGATTTCTTCATAACATCCA-----GGTATGACTACAGCTAC

Tyr-SaCas9-G2

WT GTGATTTCTTCATAACATCCAAGGATCTGGGATATGACTACAGCTAC

#1
GTGATTTCTTCATAAACATCCAAGGATCTGGGATATGACTACAGCTAC
GTGATTTCTTCATAAACATC-----TGGGATATGACTACAGCTAC
GTGATTTCTTCATAAACATCCAAGGATCTGGGATATGACTACAGCTAC
GTGATTTCTTCATAAACATCCAAGGA—TGGGATATGACTACAGCTAC

#4
GTGATTTCTTCATAACATCCAAGGATCTGGGATATGACTACAGCTAC
GTGATTTCTTCATAACATCCAAGGAT-----ATGACTACAGCTAC

Tyr-SpCas9-G3

WT TTACCCAGAAGCCAATGCACCTATCGGCCATAACAGAGACTCTT

#1
TTACCCAGAAGCCAATCTGGGTATATCGGCCATAACAGAGACTCTTAC
TTACCCAGAAGCC-----ATAACAGAGACTCTTAC
TTACCCAGAAGCC-----TATCGGCCATAACAGAGACTCTTAC

#4
TTACCCAGAAGCCA-----TAACAGAGACTCTTAC
TTACCCAGAAGCCAAT-----CGGCCATAACAGAGACTCTTAC
TTACCCAGAAGCCAAT-----CGGCAATAACAGACACGCTTAC
TTACCCAGAAACCA-----TAACAGAGACTCTTAC

Tyr-SpCas9-G4

WT TTACCCAGAAGCCAATGCACCTATCGGCCATAACAGAGACTCTTAC

#1
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TTACCCAGAAGCCA-----TAACAGAGACTCTTAC

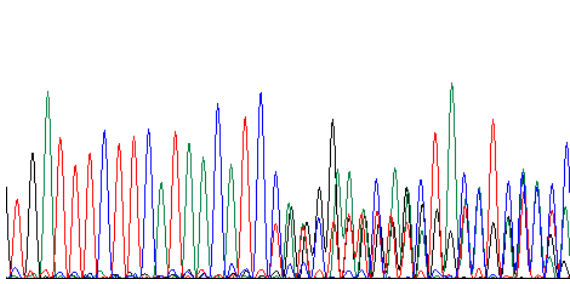
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TTACCCAGAAGCCAATGCACCTATC-----ACGGAACTCTTAC

The sequence of mutant alleles in *Tyr* mutant founders. PAM sequence and truncated PAM sequence are labeled in green. Mutant base is labeled in red, and inserted base is in purple.

Supplementary information, Figure S3.

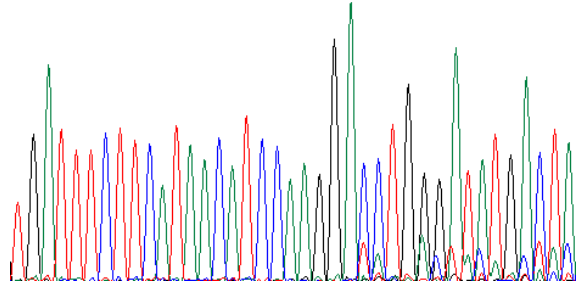
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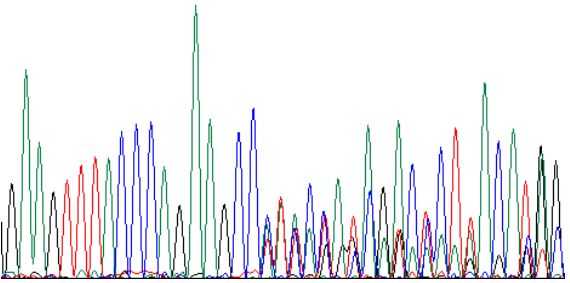
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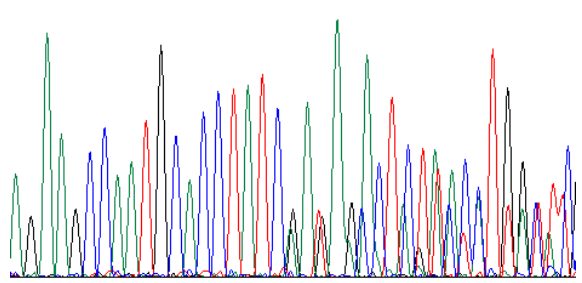
Tyr-SpCas9-G3

GAAGTTTACCCAG AAGCCCTACCATAGACTCTTACATGG



Tyr-SpCas9-G4

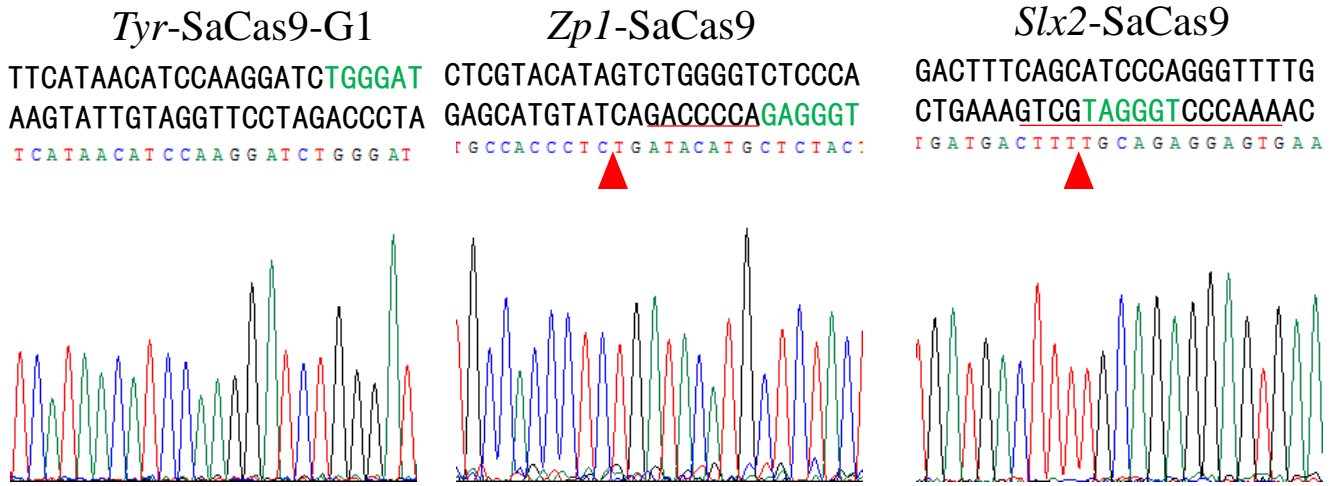
AGAAGCCAA TGCACCTATCGAGAGACTCTAACCTGGCTC



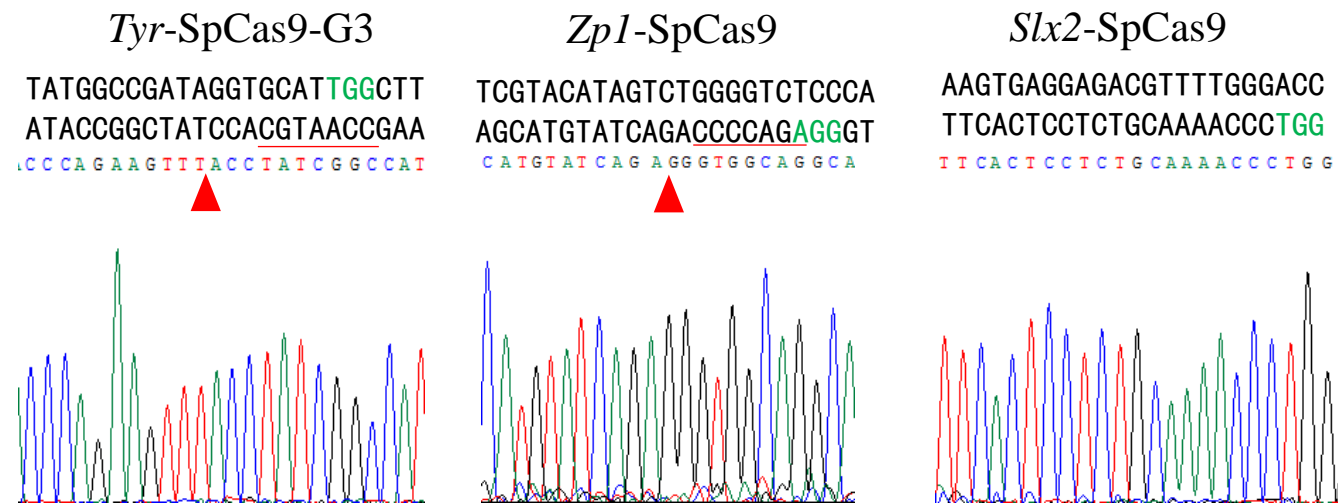
Sanger sequencing to confirm *Tyr* knock-out founder mice. Representative sequencing results showed double peaks near the PAM sequence of target sites.

Supplementary information, Figure S4.

A



B



Sanger sequencing to confirm the genotype of multiplex targeted embryos. Sites where some base pairs are deleted are indicated by red triangle, and the deleted base pairs are underlined with red line.

(A) Sanger sequencing to confirm the genotype of #9 embryo of SaCas9.

(B) Sanger sequencing to confirm the genotype of #8 embryo of SpCas9.

Supplementary information Table S1

Single gene disruption efficiency of multiplex gene disruption in mouse embryos by SaCas9 and SpCas9

	<i>Slx2</i> -targeted embryo No. (%)	<i>Zp1</i> -targeted embryo No. (%)	Tyr-targeted embryo No. (%)
SaCas9	17/30 (56.7%)	27/30 (90%)	23/30 (76.7%)
SpCas9	5/37 (13.5%)	29/37 (78.4%)	14/37 (37.8%)

Supplementary information Table S2

Primers used for in vitro transcription of gRNA and saCas9 mRNA

T7-saCas9-FP	TAATACGACTCACTATAGGGAGAATGGCCCCAAAGAAGAAGC
T7-saCas9-RP	TTAGGATCCCTTTTTCTTTTTTGC
SaCas9-gRNA-RP	AAAAATCTCGCCAACAAGTT
SLX2-SaCas9-gRNA-FP	TGTAATACGACTCACTATAGGCCTTCACTCCTCTGCAAAACCCGT TTTAGTACTCTGGAAACAGAATC
ZP1-SaCas9-gRNA-FP	TGTAATACGACTCACTATAGGTAGAGCATGTATCAGACCCCAGTT TTAGTACTCTGGAAACAGAATC
Tyr-SaCas9-G1-FP	TGTAATACGACTCACTATAGGTCTTCATAACATCCAAGGATCGTTTTAGTA CTCTGGAAACAGAATC
Tyr-SaCas9-G2-FP	TGTAATACGACTCACTATAGGCTGTAGTCATATCCAGATCCGTTTTAGTA CTCTGGAAACAGAATC
SLX2-SpCas9-gRNA-FP	TAGGTTCACTCCTCTGCAAAACCC
SLX2-SpCas9-gRNA-RP	AAACGGGTTTTGCAGAGGAGTGAA
ZP1-SpCas9-gRNA-FP	TAGGAGCATGTATCAGACCCCAG
ZP1-SpCas9-gRNA-RP	AAACCTGGGGTCTGATACATGCT
Tyr-SpCas9-G3-FP	TAGGTTATGGCCGATAGGTGCAT
Tyr-SpCas9-G3-RP	AAACATGCACCTATCGGCCATAA
Tyr-SpCas9-G4-FP	TAGGAGTCTCTGTTATGGCCGAT
Tyr-SpCas9-G4-RP	AAACATCGGCCATAACAGAGACT

Supplementary information Table S3

Primers used for single embryo PCR

ZP1-T7E1-FP	CCTCTGCTCACCCACCTCT
ZP1-T7E1-RP	GCATCCTCAAAGCCCACT
SLX2-T7E1-FP	CACCCCAACAGAGGAAGAAC
SLX2-T7E1-RP	TTTCACAGACTTTTGGCAACTT
Tyr-T7E1-FP	ACACTACTTCTGATGAATGACCTT
Tyr-T7E1-RP	AAATTGGCATAATATAGTTTCTTTA

Supplementary information Table S4

Primers used for microsatellite analysis

D7Mit145-FP	CAGGTGACCTTGGTCATGG
D7Mit145-RP	AGAGCCCAGGGGTTTTAAGA
D12Mit136-FP	TTTAATTTTGAGTGGGTTTGGC
D12Mit136-RP	TTGCTACATGTACACTGATCTCCA

Supplementary information Table S5

Primers for deep sequencing analysis of off-target sites

ZP1-target-1-FP	TAGATCGCAACTGTCTGGCCTCCAACC
ZP1-target-1-RP	CTCTCTATTGCTCACCCACCTCTCTCC
ZP1-target-2-FP	TATCCTCTAACTGTCTGGCCTCCAACC
ZP1-target-2-RP	AGAGTAGATGCTCACCCACCTCTCTCC
ZP1-target-3-FP	GTAAGGAGAACTGTCTGGCCTCCAACC
ZP1-target-3-RP	ACTGCATATGCTCACCCACCTCTCTCC
ZP1-target-4-FP	AAGGAGTAACTGTCTGGCCTCCAACC
ZP1-target-4-RP	CTAAGCCTTGCTCACCCACCTCTCTCC
ZP1-target-5-FP	CGTCTAATAACTGTCTGGCCTCCAACC
ZP1-target-5-RP	TCTCTCCGTGCTCACCCACCTCTCTCC
ZP1-target-6-FP	TCGACTAGAACTGTCTGGCCTCCAACC
ZP1-target-6-RP	TTCTAGCTTGCTCACCCACCTCTCTCC
ZP1-target-7-FP	CCTAGAGTAACTGTCTGGCCTCCAACC
ZP1-target-7-RP	GCGTAAGATGCTCACCCACCTCTCTCC
ZP1-target-8-FP	CTATTAAGAACTGTCTGGCCTCCAACC
ZP1-target-8-RP	AAGGCTATTGCTCACCCACCTCTCTCC
ZP1-target-9-FP	GAGCCTTAACTGTCTGGCCTCCAACC
ZP1-target-9-RP	TTATGCGATGCTCACCCACCTCTCTCC
ZP1-target-10-FP	TCGCCTTAACTGTCTGGCCTCCAACC
ZP1-target-10-RP	CTAGTACGTGCTCACCCACCTCTCTCC
ZP1-sp-OT1-1-FP	TAGATCGCACAGCCAGGGCTATACAGAGAAA
ZP1-sp-OT1-1-RP	CTCTCTATAAGAAAGAAAGAAAGAAAGCAA
ZP1-sp-OT1-2-FP	TATCCTCTACAGCCAGGGCTATACAGAGAAA
ZP1-sp-OT1-2-RP	AGAGTAGAAAGAAAGAAAGAAAGAAAGCAA
ZP1-sp-OT1-3-FP	GTAAGGAGACAGCCAGGGCTATACAGAGAAA
ZP1-sp-OT1-3-RP	ACTGCATAAAGAAAGAAAGAAAGAAAGCAA
ZP1-sp-OT1-4-FP	AAGGAGTAACAGCCAGGGCTATACAGAGAAA
ZP1-sp-OT1-4-RP	CTAAGCCTAAGAAAGAAAGAAAGAAAGCAA
ZP1-sp-OT1-5-FP	CGTCTAATACAGCCAGGGCTATACAGAGAAA
ZP1-sp-OT1-5-RP	TCTCTCCGAAGAAAGAAAGAAAGAAAGCAA
ZP1-sp-OT1-6-FP	TCGACTAGACAGCCAGGGCTATACAGAGAAA
ZP1-sp-OT1-6-RP	TTCTAGCTAAGAAAGAAAGAAAGAAAGCAA
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ZP1-sp-OT1-8-FP	CTATTAAGACAGCCAGGGCTATACAGAGAAA
ZP1-sp-OT1-8-RP	AAGGCTATAAGAAAGAAAGAAAGAAAGCAA
ZP1-sp-OT1-9-FP	GAGCCTTAACAGCCAGGGCTATACAGAGAAA
ZP1-sp-OT1-9-RP	TTATGCGAAAGAAAGAAAGAAAGAAAGCAA
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ZP1-sp-OT8-7-FP CCTAGAGTCATCACCCCAATAGATGTTTATGC
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ZP1-sp-OT8-9-FP GAGCCTTACATCACCCCAATAGATGTTTATGC
ZP1-sp-OT8-9-RP TTATGCGAGGTCATTTGTGAAGTGTTTTGTCC
ZP1-sp-OT8-10-FP TCGCCTTACATCACCCCAATAGATGTTTATGC
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ZP1-sp-OT9-1-FP TAGATCGCTTAACTTAGCTGCATTCTGCTTCC
ZP1-sp-OT9-1-RP CTCTCTATCTTCATCTTTTGGCTCACTTTTCA
ZP1-sp-OT9-2-FP TATCCTCTTTAACTTAGCTGCATTCTGCTTCC
ZP1-sp-OT9-2-RP AGAGTAGACTTCATCTTTTGGCTCACTTTTCA
ZP1-sp-OT9-3-FP GTAAGGAGTTAACTTAGCTGCATTCTGCTTCC
ZP1-sp-OT9-3-RP ACTGCATACTTCATCTTTTGGCTCACTTTTCA
ZP1-sp-OT9-4-FP AAGGAGTATTAACCTTAGCTGCATTCTGCTTCC
ZP1-sp-OT9-4-RP CTAAGCCTCTTCATCTTTTGGCTCACTTTTCA
ZP1-sp-OT9-5-FP CGTCTAATTTAACTTAGCTGCATTCTGCTTCC
ZP1-sp-OT9-5-RP TCTCTCCGCTTCATCTTTTGGCTCACTTTTCA
ZP1-sp-OT9-6-FP TCGACTAGTTAACTTAGCTGCATTCTGCTTCC
ZP1-sp-OT9-6-RP TTCTAGCTCTTCATCTTTTGGCTCACTTTTCA
ZP1-sp-OT9-7-FP CCTAGAGTTTAACTTAGCTGCATTCTGCTTCC
ZP1-sp-OT9-7-RP GCGTAAGACTTCATCTTTTGGCTCACTTTTCA
ZP1-sp-OT9-8-FP CTATTAAGTTAACTTAGCTGCATTCTGCTTCC
ZP1-sp-OT9-8-RP AAGGCTATCTTCATCTTTTGGCTCACTTTTCA
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ZP1-sp-OT9-9-RP TTATGCGACTTCATCTTTTGGCTCACTTTTCA
ZP1-sp-OT9-10-FP TCGCCTTATTAACCTTAGCTGCATTCTGCTTCC
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ZP1-sp-OT10-1-RP CTCTCTATCAAAAACAAAACACAGGGGAC
ZP1-sp-OT10-2-FP TATCCTCTCAGAATTTAAACAGGGGAGGAA
ZP1-sp-OT10-2-RP AGAGTAGACAAAACAAAACACAGGGGAC
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ZP1-sp-OT10-4-FP AAGGAGTACAGAATTTAAACAGGGGAGGAA
ZP1-sp-OT10-4-RP CTAAGCCTCAAAAACAAAACACAGGGGAC
ZP1-sp-OT10-5-FP CGTCTAATCAGAATTTAAACAGGGGAGGAA
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ZP1-sp-OT10-6-FP TCGACTAGCAGAATTTAAACAGGGGAGGAA
ZP1-sp-OT10-6-RP TTCTAGCTCAAAAACAAAACACAGGGGAC
ZP1-sp-OT10-7-FP CCTAGAGTCAGAATTTAAACAGGGGAGGAA
ZP1-sp-OT10-7-RP GCGTAAGACAAAACAAAACACAGGGGAC
ZP1-sp-OT10-8-FP CTATTAAGCAGAATTTAAACAGGGGAGGAA
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ZP1-sp-OT10-10-RP CTAGTACGCAAAAACAAAACACAGGGGAC

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ZP1-target-12-FP AGGAGTCCAAGTGTCTGGCCTCCAACC
ZP1-target-12-RP CATGCCTATGCTCACCCACCTCTCTCC
ZP1-target-13-FP GTAGAGAGAACTGTCTGGCCTCCAACC
ZP1-target-13-RP CCTCTCTGTGCTCACCCACCTCTCTCC

ZP1-target-14-FP AGCGTAGCAACTGTCTGGCCTCCAACC
ZP1-target-14-RP CAGCCTCGTGCTCACCCACCTCTCTCC
ZP1-target-15-FP TGCCTCTTAACTGTCTGGCCTCCAACC
ZP1-target-15-RP TCCTCTACTGCTCACCCACCTCTCTCC
ZP1-target-16-FP TCATGAGCAACTGTCTGGCCTCCAACC
ZP1-target-16-RP CCTGAGATTGCTCACCCACCTCTCTCC
ZP1-target-17-FP TAGCGAGTAACTGTCTGGCCTCCAACC
ZP1-target-17-RP GTAGCTCCTGCTCACCCACCTCTCTCC
ZP1-target-18-FP TACTACGCAACTGTCTGGCCTCCAACC
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ZP1-target-19-RP CTGCGCATTGCTCACCCACCTCTCTCC
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ZP1-sa-OT2-14-RP CAGCCTCGAATGGAGGGGTAGTGGTTTG
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SLX2-target-2-RP AGAGTAGAACCCCAACAGAGGAAGAACA
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SLX2-target-7-RP GCGTAAGAACCCCAACAGAGGAAGAACA
SLX2-target-8-FP CTATTAAGGACTTTTGGCAACTTAAGGTTT

SLX2-target-8-RP	AAGGCTATACCCCAACAGAGGAAGAACA
SLX2-target-9-FP	GAGCCTTAGACTTTTGGCAACTTAAGGTTT
SLX2-target-9-RP	TTATGCGAACCCCAACAGAGGAAGAACA
SLX2-target-10-FP	TCGCCTTAGACTTTTGGCAACTTAAGGTTT
SLX2-target-10-RP	CTAGTACGACCCCAACAGAGGAAGAACA
SLX2-sp-OT1-1-FP	TAGATCGCGGTTACAGCAAAGATGGCTG
SLX2-sp-OT1-1-RP	CTCTCTATGTGACAAAGGGTGACTTAAGAGT
SLX2-sp-OT1-2-FP	TATCCTCTGGTTACAGCAAAGATGGCTG
SLX2-sp-OT1-2-RP	AGAGTAGAGTGACAAAGGGTGACTTAAGAGT
SLX2-sp-OT1-3-FP	GTAAGGAGGGTTACAGCAAAGATGGCTG
SLX2-sp-OT1-3-RP	ACTGCATAGTGACAAAGGGTGACTTAAGAGT
SLX2-sp-OT1-4-FP	AAGGAGTAGGTTACAGCAAAGATGGCTG
SLX2-sp-OT1-4-RP	CTAAGCCTGTGACAAAGGGTGACTTAAGAGT
SLX2-sp-OT1-5-FP	CGTCTAATGGTTACAGCAAAGATGGCTG
SLX2-sp-OT1-5-RP	TCTCTCCGGTGACAAAGGGTGACTTAAGAGT
SLX2-sp-OT1-6-FP	TCGACTAGGGTTACAGCAAAGATGGCTG
SLX2-sp-OT1-6-RP	TTCTAGCTGTGACAAAGGGTGACTTAAGAGT
SLX2-sp-OT1-7-FP	CCTAGAGTGGTTACAGCAAAGATGGCTG
SLX2-sp-OT1-7-RP	GCGTAAGAGTGACAAAGGGTGACTTAAGAGT
SLX2-sp-OT1-8-FP	CTATTAAGGGTTACAGCAAAGATGGCTG
SLX2-sp-OT1-8-RP	AAGGCTATGTGACAAAGGGTGACTTAAGAGT
SLX2-sp-OT1-9-FP	GAGCCTTAGGTTACAGCAAAGATGGCTG
SLX2-sp-OT1-9-RP	TTATGCGAGTGACAAAGGGTGACTTAAGAGT
SLX2-sp-OT1-10-FP	TCGCCTTAGGTTACAGCAAAGATGGCTG
SLX2-sp-OT1-10-RP	CTAGTACGGTGACAAAGGGTGACTTAAGAGT
SLX2-sp-OT2-1-FP	TAGATCGCCACCATCTTCAACCAAACCT
SLX2-sp-OT2-1-RP	CTCTCTATATTCAAGGAACAGGAAACAGA
SLX2-sp-OT2-2-FP	TATCCTCTCACCATCTTCAACCAAACCT
SLX2-sp-OT2-2-RP	AGAGTAGAATTCAAGGAACAGGAAACAGA
SLX2-sp-OT2-3-FP	GTAAGGAGCACCATCTTCAACCAAACCT
SLX2-sp-OT2-3-RP	ACTGCATAATTCAAGGAACAGGAAACAGA
SLX2-sp-OT2-4-FP	AAGGAGTACACCATCTTCAACCAAACCT
SLX2-sp-OT2-4-RP	CTAAGCCTATTCAAGGAACAGGAAACAGA
SLX2-sp-OT2-5-FP	CGTCTAATCACCATCTTCAACCAAACCT
SLX2-sp-OT2-5-RP	TCTCTCCGATTCAAGGAACAGGAAACAGA
SLX2-sp-OT2-6-FP	TCGACTAGCACCATCTTCAACCAAACCT
SLX2-sp-OT2-6-RP	TTCTAGCTATTCAAGGAACAGGAAACAGA
SLX2-sp-OT2-7-FP	CCTAGAGTCACCATCTTCAACCAAACCT
SLX2-sp-OT2-7-RP	GCGTAAGAATTCAAGGAACAGGAAACAGA
SLX2-sp-OT2-8-FP	CTATTAAGCACCATCTTCAACCAAACCT
SLX2-sp-OT2-8-RP	AAGGCTATATTCAAGGAACAGGAAACAGA
SLX2-sp-OT2-9-FP	GAGCCTTACACCATCTTCAACCAAACCT
SLX2-sp-OT2-9-RP	TTATGCGAATTCAAGGAACAGGAAACAGA
SLX2-sp-OT2-10-FP	TCGCCTTACACCATCTTCAACCAAACCT
SLX2-sp-OT2-10-RP	CTAGTACGATTCAAGGAACAGGAAACAGA
SLX2-sp-OT3-1-FP	TAGATCGCAGATACCAACTACTCGGTTTCAG

SLX2-sp-OT3-1-RP CTCTCTATAGATTACTACTGCTGCATGTGAG
SLX2-sp-OT3-2-FP TATCCTCTAGATACCAACTACTCGGTTTCAG
SLX2-sp-OT3-2-RP AGAGTAGAAGATTACTACTGCTGCATGTGAG
SLX2-sp-OT3-3-FP GTAAGGAGAGATACCAACTACTCGGTTTCAG
SLX2-sp-OT3-3-RP ACTGCATAAGATTACTACTGCTGCATGTGAG
SLX2-sp-OT3-4-FP AAGGAGTAAGATACCAACTACTCGGTTTCAG
SLX2-sp-OT3-4-RP CTAAGCCTAGATTACTACTGCTGCATGTGAG
SLX2-sp-OT3-5-FP CGTCTAATAGATACCAACTACTCGGTTTCAG
SLX2-sp-OT3-5-RP TCTCTCCGAGATTACTACTGCTGCATGTGAG
SLX2-sp-OT3-6-FP TCGACTAGAGATACCAACTACTCGGTTTCAG
SLX2-sp-OT3-6-RP TTCTAGCTAGATTACTACTGCTGCATGTGAG
SLX2-sp-OT3-7-FP CCTAGAGTAGATACCAACTACTCGGTTTCAG
SLX2-sp-OT3-7-RP GCGTAAGAAGATTACTACTGCTGCATGTGAG
SLX2-sp-OT3-8-FP CTATTAAGAGATACCAACTACTCGGTTTCAG
SLX2-sp-OT3-8-RP AAGGCTATAGATTACTACTGCTGCATGTGAG
SLX2-sp-OT3-9-FP GAGCCTTAAGATACCAACTACTCGGTTTCAG
SLX2-sp-OT3-9-RP TTATGCGAAGATTACTACTGCTGCATGTGAG
SLX2-sp-OT3-10-FP TCGCCTTAAGATACCAACTACTCGGTTTCAG
SLX2-sp-OT3-10-RP CTAGTACGAGATTACTACTGCTGCATGTGAG

SLX2-sp-OT4-1-FP TAGATCGCGAAACTGTAAGCCAAACCCA
SLX2-sp-OT4-1-RP CTCTCTATTAATGGAGCCAAAGTAGGGG
SLX2-sp-OT4-2-FP TATCCTCTGAAACTGTAAGCCAAACCCA
SLX2-sp-OT4-2-RP AGAGTAGATAATGGAGCCAAAGTAGGGG
SLX2-sp-OT4-3-FP GTAAGGAGGAAACTGTAAGCCAAACCCA
SLX2-sp-OT4-3-RP ACTGCATATAATGGAGCCAAAGTAGGGG
SLX2-sp-OT4-4-FP AAGGAGTAGAAACTGTAAGCCAAACCCA
SLX2-sp-OT4-4-RP CTAAGCCTTAATGGAGCCAAAGTAGGGG
SLX2-sp-OT4-5-FP CGTCTAATGAAACTGTAAGCCAAACCCA
SLX2-sp-OT4-5-RP TCTCTCCGTAATGGAGCCAAAGTAGGGG
SLX2-sp-OT4-6-FP TCGACTAGGAAACTGTAAGCCAAACCCA
SLX2-sp-OT4-6-RP TTCTAGCTTAATGGAGCCAAAGTAGGGG
SLX2-sp-OT4-7-FP CCTAGAGTGAAACTGTAAGCCAAACCCA
SLX2-sp-OT4-7-RP GCGTAAGATAATGGAGCCAAAGTAGGGG
SLX2-sp-OT4-8-FP CTATTAAGGAAACTGTAAGCCAAACCCA
SLX2-sp-OT4-8-RP AAGGCTATTAATGGAGCCAAAGTAGGGG
SLX2-sp-OT4-9-FP GAGCCTTAGAAACTGTAAGCCAAACCCA
SLX2-sp-OT4-9-RP TTATGCGATAATGGAGCCAAAGTAGGGG
SLX2-sp-OT4-10-FP TCGCCTTAGAAACTGTAAGCCAAACCCA
SLX2-sp-OT4-10-RP CTAGTACGTAATGGAGCCAAAGTAGGGG

SLX2-sp-OT5-1-FP TAGATCGCCATCTTTCTGTAGGAATGTTGCT
SLX2-sp-OT5-1-RP CTCTCTATAAAACCTATGAGGTTTCAGTAGCA
SLX2-sp-OT5-2-FP TATCCTCTCATCTTTCTGTAGGAATGTTGCT
SLX2-sp-OT5-2-RP AGAGTAGAAAAACCTATGAGGTTTCAGTAGCA
SLX2-sp-OT5-3-FP GTAAGGAGCATCTTTCTGTAGGAATGTTGCT
SLX2-sp-OT5-3-RP ACTGCATAAAACCTATGAGGTTTCAGTAGCA
SLX2-sp-OT5-4-FP AAGGAGTACATCTTTCTGTAGGAATGTTGCT

SLX2-sp-OT5-4-RP CTAAGCCTAAAACCTATGAGGTTTCAGTAGCA
SLX2-sp-OT5-5-FP CGTCTAATCATCTTTCTGTAGGAATGTTGCT
SLX2-sp-OT5-5-RP TCTCTCCGAAAACCTATGAGGTTTCAGTAGCA
SLX2-sp-OT5-6-FP TCGACTAGCATCTTTCTGTAGGAATGTTGCT
SLX2-sp-OT5-6-RP TTCTAGCTAAAACCTATGAGGTTTCAGTAGCA
SLX2-sp-OT5-7-FP CCTAGAGTCATCTTTCTGTAGGAATGTTGCT
SLX2-sp-OT5-7-RP GCGTAAGAAAAACCTATGAGGTTTCAGTAGCA
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SLX2-sp-OT5-9-FP GAGCCTTACATCTTTCTGTAGGAATGTTGCT
SLX2-sp-OT5-9-RP TTATGCGAAAAACCTATGAGGTTTCAGTAGCA
SLX2-sp-OT5-10-FP TCGCCTTACATCTTTCTGTAGGAATGTTGCT
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SLX2-sp-OT6-1-FP TAGATCGCTGATTCAGTAAAGGTGGAGGA
SLX2-sp-OT6-1-RP CTCTCTATCAGGTGACAGATCGGAAGATA
SLX2-sp-OT6-2-FP TATCCTCTTGATTCAGTAAAGGTGGAGGA
SLX2-sp-OT6-2-RP AGAGTAGACAGGTGACAGATCGGAAGATA
SLX2-sp-OT6-3-FP GTAAGGAGTGATTCAGTAAAGGTGGAGGA
SLX2-sp-OT6-3-RP ACTGCATACAGGTGACAGATCGGAAGATA
SLX2-sp-OT6-4-FP AAGGAGTATGATTCAGTAAAGGTGGAGGA
SLX2-sp-OT6-4-RP CTAAGCCTCAGGTGACAGATCGGAAGATA
SLX2-sp-OT6-5-FP CGTCTAATTGATTCAGTAAAGGTGGAGGA
SLX2-sp-OT6-5-RP TCTCTCCGCAGGTGACAGATCGGAAGATA
SLX2-sp-OT6-6-FP TCGACTAGTGATTCAGTAAAGGTGGAGGA
SLX2-sp-OT6-6-RP TTCTAGCTCAGGTGACAGATCGGAAGATA
SLX2-sp-OT6-7-FP CCTAGAGTTGATTCAGTAAAGGTGGAGGA
SLX2-sp-OT6-7-RP GCGTAAGACAGGTGACAGATCGGAAGATA
SLX2-sp-OT6-8-FP CTATTAAGTGATTCAGTAAAGGTGGAGGA
SLX2-sp-OT6-8-RP AAGGCTATCAGGTGACAGATCGGAAGATA
SLX2-sp-OT6-9-FP GAGCCTTATGATTCAGTAAAGGTGGAGGA
SLX2-sp-OT6-9-RP TTATGCGACAGGTGACAGATCGGAAGATA
SLX2-sp-OT6-10-FP TCGCCTTATGATTCAGTAAAGGTGGAGGA
SLX2-sp-OT6-10-RP CTAGTACGCAGGTGACAGATCGGAAGATA

SLX2-sp-OT7-1-FP TAGATCGCGTTCGCCGTCCAGTAACC
SLX2-sp-OT7-1-RP CTCTCTATCAGACCATAGCTGTCCCGT
SLX2-sp-OT7-2-FP TATCCTCTGTTCGCCGTCCAGTAACC
SLX2-sp-OT7-2-RP AGAGTAGACAGACCATAGCTGTCCCGT
SLX2-sp-OT7-3-FP GTAAGGAGGTTTCGCCGTCCAGTAACC
SLX2-sp-OT7-3-RP ACTGCATACAGACCATAGCTGTCCCGT
SLX2-sp-OT7-4-FP AAGGAGTAGTTCGCCGTCCAGTAACC
SLX2-sp-OT7-4-RP CTAAGCCTCAGACCATAGCTGTCCCGT
SLX2-sp-OT7-5-FP CGTCTAATGTTCGCCGTCCAGTAACC
SLX2-sp-OT7-5-RP TCTCTCCGCAGACCATAGCTGTCCCGT
SLX2-sp-OT7-6-FP TCGACTAGGTTTCGCCGTCCAGTAACC
SLX2-sp-OT7-6-RP TTCTAGCTCAGACCATAGCTGTCCCGT
SLX2-sp-OT7-7-FP CCTAGAGTGTTTCGCCGTCCAGTAACC

SLX2-sp-OT7-7-RP GCGTAAGACAGACCATAGCTGTCCCGT
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SLX2-sp-OT7-8-RP AAGGCTATCAGACCATAGCTGTCCCGT
SLX2-sp-OT7-9-FP GAGCCTTAGTTCGCCGTCCAGTAACC
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SLX2-sp-OT7-10-FP TCGCCTTAGTTCGCCGTCCAGTAACC
SLX2-sp-OT7-10-RP CTAGTACGCAGACCATAGCTGTCCCGT
SLX2-sp-OT8-1-FP TAGATCGCTCTCAGCCGTCATCGATAAT

SLX2-sp-OT8-1-RP CTCTCTATAAGGATGGGGGTGGTGT
SLX2-sp-OT8-2-FP TATCCTCTTCTCAGCCGTCATCGATAAT
SLX2-sp-OT8-2-RP AGAGTAGAAAGGATGGGGGTGGTGT
SLX2-sp-OT8-3-FP GTAAGGAGTCTCAGCCGTCATCGATAAT
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SLX2-sp-OT8-4-FP AAGGAGTATCTCAGCCGTCATCGATAAT
SLX2-sp-OT8-4-RP CTAAGCCTAAGGATGGGGGTGGTGT
SLX2-sp-OT8-5-FP CGTCTAATTCTCAGCCGTCATCGATAAT
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SLX2-sp-OT8-6-FP TCGACTAGTCTCAGCCGTCATCGATAAT
SLX2-sp-OT8-6-RP TTCTAGCTAAGGATGGGGGTGGTGT
SLX2-sp-OT8-7-FP CCTAGAGTTCTCAGCCGTCATCGATAAT
SLX2-sp-OT8-7-RP GCGTAAGAAAGGATGGGGGTGGTGT
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SLX2-sp-OT8-10-RP CTAGTACGAAGGATGGGGGTGGTGT

SLX2-sp-OT9-1-FP TAGATCGCAGAGCTGAAGTCACAGGCAG
SLX2-sp-OT9-1-RP CTCTCTATGAGGAAGATGGGGGAAATG
SLX2-sp-OT9-2-FP TATCCTCTAGAGCTGAAGTCACAGGCAG
SLX2-sp-OT9-2-RP AGAGTAGAGAGGAAGATGGGGGAAATG
SLX2-sp-OT9-3-FP GTAAGGAGAGAGCTGAAGTCACAGGCAG
SLX2-sp-OT9-3-RP ACTGCATAGAGGAAGATGGGGGAAATG
SLX2-sp-OT9-4-FP AAGGAGTAAGAGCTGAAGTCACAGGCAG
SLX2-sp-OT9-4-RP CTAAGCCTGAGGAAGATGGGGGAAATG
SLX2-sp-OT9-5-FP CGTCTAATAGAGCTGAAGTCACAGGCAG
SLX2-sp-OT9-5-RP TCTCTCCGAGGAAGATGGGGGAAATG
SLX2-sp-OT9-6-FP TCGACTAGAGAGCTGAAGTCACAGGCAG
SLX2-sp-OT9-6-RP TTCTAGCTGAGGAAGATGGGGGAAATG
SLX2-sp-OT9-7-FP CCTAGAGTAGAGCTGAAGTCACAGGCAG
SLX2-sp-OT9-7-RP GCGTAAGAGAGGAAGATGGGGGAAATG
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SLX2-sp-OT9-9-FP GAGCCTTAAGAGCTGAAGTCACAGGCAG
SLX2-sp-OT9-9-RP TTATGCGAGAGGAAGATGGGGGAAATG
SLX2-sp-OT9-10-FP TCGCCTTAAGAGCTGAAGTCACAGGCAG

SLX2-sp-OT9-10-RP CTAGTACGGAGGAAGATGGGGGAAATG

SLX2-sp-OT10-1-FP TAGATCGCACAGGAGATGGCAAGGCTA
 SLX2-sp-OT10-1-RP CTCTCTATATGACACAGTGACGTGACATAAG
 SLX2-sp-OT10-2-FP TATCCTCTACAGGAGATGGCAAGGCTA
 SLX2-sp-OT10-2-RP AGAGTAGAATGACACAGTGACGTGACATAAG
 SLX2-sp-OT10-3-FP GTAAGGAGACAGGAGATGGCAAGGCTA
 SLX2-sp-OT10-3-RP ACTGCATAATGACACAGTGACGTGACATAAG
 SLX2-sp-OT10-4-FP AAGGAGTAACAGGAGATGGCAAGGCTA
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 SLX2-sp-OT10-5-RP TCTCTCCGATGACACAGTGACGTGACATAAG
 SLX2-sp-OT10-6-FP TCGACTAGACAGGAGATGGCAAGGCTA
 SLX2-sp-OT10-6-RP TTCTAGCTATGACACAGTGACGTGACATAAG
 SLX2-sp-OT10-7-FP CCTAGAGTACAGGAGATGGCAAGGCTA
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 SLX2-sp-OT10-8-RP AAGGCTATATGACACAGTGACGTGACATAAG
 SLX2-sp-OT10-9-FP GAGCCTTAACAGGAGATGGCAAGGCTA
 SLX2-sp-OT10-9-RP TTATGCGAATGACACAGTGACGTGACATAAG
 SLX2-sp-OT10-10-FP TCGCCTTAACAGGAGATGGCAAGGCTA
 SLX2-sp-OT10-10-RP CTAGTACGATGACACAGTGACGTGACATAAG

SLX2-target-11-FP TTCTGCCTGACTTTTGGCAACTTAAGGTTT
 SLX2-target-11-RP GCTCAGGAACCCCAACAGAGGAAGAACA
 SLX2-target-12-FP AGGAGTCCGACTTTTGGCAACTTAAGGTTT
 SLX2-target-12-RP CATGCCTAACCCCAACAGAGGAAGAACA
 SLX2-target-13-FP GTAGAGAGGACTTTTGGCAACTTAAGGTTT
 SLX2-target-13-RP CCTCTCTGACCCCAACAGAGGAAGAACA
 SLX2-target-14-FP AGCGTAGCGACTTTTGGCAACTTAAGGTTT
 SLX2-target-14-RP CAGCCTCGACCCCAACAGAGGAAGAACA
 SLX2-target-15-FP TGCCTCTTGACTTTTGGCAACTTAAGGTTT
 SLX2-target-15-RP TCCTCTACACCCCAACAGAGGAAGAACA
 SLX2-target-16-FP TCATGAGCGACTTTTGGCAACTTAAGGTTT
 SLX2-target-16-RP CCTGAGATAACCCCAACAGAGGAAGAACA
 SLX2-target-17-FP TAGCGAGTGACTTTTGGCAACTTAAGGTTT
 SLX2-target-17-RP GTAGCTCCACCCCAACAGAGGAAGAACA
 SLX2-target-18-FP TACTACGCGACTTTTGGCAACTTAAGGTTT
 SLX2-target-18-RP AGGCTCCGACCCCAACAGAGGAAGAACA
 SLX2-target-19-FP GCAGCGTAGACTTTTGGCAACTTAAGGTTT
 SLX2-target-19-RP CTGCGCATACCCCAACAGAGGAAGAACA
 SLX2-target-20-FP GAGCGCTAGACTTTTGGCAACTTAAGGTTT
 SLX2-target-20-RP CGCTCAGTACCCCAACAGAGGAAGAACA

SLX2-sa-OT1-11-FP TTCTGCCTGTGAAAGTAAATTAATTTCCAAG
 SLX2-sa-OT1-11-RP GCTCAGGACTAGACAGGAAATGGGAAAAA
 SLX2-sa-OT1-12-FP AGGAGTCCGTGAAAGTAAATTAATTTCCAAG
 SLX2-sa-OT1-12-RP CATGCCTACTAGACAGGAAATGGGAAAAA

SLX2-sa-OT1-13-FP GTAGAGAGGTGAAAGTAAATTAATTTCCAAG
SLX2-sa-OT1-13-RP CCTCTCTGCTAGACAGGAAATGGGAAAAA
SLX2-sa-OT1-14-FP AGCGTAGCGTGAAAGTAAATTAATTTCCAAG
SLX2-sa-OT1-14-RP CAGCCTCGCTAGACAGGAAATGGGAAAAA
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SLX2-sa-OT1-16-FP TCATGAGCGTGAAAGTAAATTAATTTCCAAG
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SLX2-sa-OT1-17-FP TAGCGAGTGTGAAAGTAAATTAATTTCCAAG
SLX2-sa-OT1-17-RP GTAGCTCCCTAGACAGGAAATGGGAAAAA
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SLX2-sa-OT1-19-RP CTGCGCATCTAGACAGGAAATGGGAAAAA
SLX2-sa-OT1-20-FP GAGCGCTAGTGAAAGTAAATTAATTTCCAAG
SLX2-sa-OT1-20-RP CGCTCAGTCTAGACAGGAAATGGGAAAAA

SLX2-sa-OT2-11-FP TTCTGCCTAAAGGAGCCAGAGTTCCAG
SLX2-sa-OT2-11-RP GCTCAGGATGTTCTTCACGTTTCTTGTCC
SLX2-sa-OT2-12-FP AGGAGTCCAAAGGAGCCAGAGTTCCAG
SLX2-sa-OT2-12-RP CATGCCTATGTTCTTCACGTTTCTTGTCC
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SLX2-sa-OT2-13-RP CCTCTCTGTGTTCTTCACGTTTCTTGTCC
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SLX2-sa-OT2-15-RP TCCTCTACTGTTCTTCACGTTTCTTGTCC
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SLX2-sa-OT2-19-RP CTGCGCATTGTTCTTCACGTTTCTTGTCC
SLX2-sa-OT2-20-FP GAGCGCTAAAAGGAGCCAGAGTTCCAG
SLX2-sa-OT2-20-RP CGCTCAGTTGTTCTTCACGTTTCTTGTCC

SLX2-sa-OT3-11-FP TTCTGCCTCTTTCCCGTGTTGGTTGG
SLX2-sa-OT3-11-RP GCTCAGGAGTCCCAGGGTGAGGAAGA
SLX2-sa-OT3-12-FP AGGAGTCCCTTTCCCGTGTTGGTTGG
SLX2-sa-OT3-12-RP CATGCCTAGTCCCAGGGTGAGGAAGA
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SLX2-sa-OT3-13-RP CCTCTCTGGTCCCAGGGTGAGGAAGA
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SLX2-sa-OT3-14-RP CAGCCTCGGTCCCAGGGTGAGGAAGA
SLX2-sa-OT3-15-FP TGCCTCTTCTTTCCCGTGTTGGTTGG
SLX2-sa-OT3-15-RP TCCTCTACGTCCCAGGGTGAGGAAGA

SLX2-sa-OT3-16-FP TCATGAGCCTTTCCCGTGTGGTTGG
SLX2-sa-OT3-16-RP CCTGAGATGTCCAGGGTGAGGAAGA
SLX2-sa-OT3-17-FP TAGCGAGTCTTTCCCGTGTGGTTGG
SLX2-sa-OT3-17-RP GTAGCTCCGTCCAGGGTGAGGAAGA
SLX2-sa-OT3-18-FP TACTACGCCTTTCCCGTGTGGTTGG
SLX2-sa-OT3-18-RP AGGCTCCGTCCAGGGTGAGGAAGA
SLX2-sa-OT3-19-FP GCAGCGTACTTTCCCGTGTGGTTGG
SLX2-sa-OT3-19-RP CTGCGCATGTCCAGGGTGAGGAAGA
SLX2-sa-OT3-20-FP GAGCGTACTTTCCCGTGTGGTTGG
SLX2-sa-OT3-20-RP CGCTCAGTGTCCAGGGTGAGGAAGA

SLX2-sa-OT4-11-FP TTCTGCCTACATTTCTAGAGCACCGGAGT
SLX2-sa-OT4-11-RP GCTCAGGAACATCAAGTGAATCATAAAACATG
SLX2-sa-OT4-12-FP AGGAGTCCACATTTCTAGAGCACCGGAGT
SLX2-sa-OT4-12-RP CATGCCTAACATCAAGTGAATCATAAAACATG
SLX2-sa-OT4-13-FP GTAGAGAGACATTTCTAGAGCACCGGAGT
SLX2-sa-OT4-13-RP CCTCTCTGACATCAAGTGAATCATAAAACATG
SLX2-sa-OT4-14-FP AGCGTAGCACATTTCTAGAGCACCGGAGT
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SLX2-sa-OT4-18-FP TACTACGCACATTTCTAGAGCACCGGAGT
SLX2-sa-OT4-18-RP AGGCTCCGACATCAAGTGAATCATAAAACATG
SLX2-sa-OT4-19-FP GCAGCGTAACATTTCTAGAGCACCGGAGT
SLX2-sa-OT4-19-RP CTGCGCATAACATCAAGTGAATCATAAAACATG
SLX2-sa-OT4-20-FP GAGCGTAACATTTCTAGAGCACCGGAGT
SLX2-sa-OT4-20-RP CGCTCAGTACATCAAGTGAATCATAAAACATG

SLX2-sa-OT5-11-FP TTCTGCCTAACTAACTTTCTAGACAAGGCTGG
SLX2-sa-OT5-11-RP GCTCAGGAAAAGGATTTTATTTTCTGTATTTC
SLX2-sa-OT5-12-FP AGGAGTCCAATACTTTCTAGACAAGGCTGG
SLX2-sa-OT5-12-RP CATGCCTAAAAGGATTTTATTTTCTGTATTTC
SLX2-sa-OT5-13-FP GTAGAGAGAACTAACTTTCTAGACAAGGCTGG
SLX2-sa-OT5-13-RP CCTCTCTGAAAGGATTTTATTTTCTGTATTTC
SLX2-sa-OT5-14-FP AGCGTAGCAACTAACTTTCTAGACAAGGCTGG
SLX2-sa-OT5-14-RP CAGCCTCGAAAGGATTTTATTTTCTGTATTTC
SLX2-sa-OT5-15-FP TGCCTCTTAACTAACTTTCTAGACAAGGCTGG
SLX2-sa-OT5-15-RP TCCTCTACAAAGGATTTTATTTTCTGTATTTC
SLX2-sa-OT5-16-FP TCATGAGCAACTAACTTTCTAGACAAGGCTGG
SLX2-sa-OT5-16-RP CCTGAGATAAAGGATTTTATTTTCTGTATTTC
SLX2-sa-OT5-17-FP TAGCGAGTAACTAACTTTCTAGACAAGGCTGG
SLX2-sa-OT5-17-RP GTAGCTCCAAAGGATTTTATTTTCTGTATTTC
SLX2-sa-OT5-18-FP TACTACGCAACTAACTTTCTAGACAAGGCTGG
SLX2-sa-OT5-18-RP AGGCTCCGAAAGGATTTTATTTTCTGTATTTC

SLX2-sa-OT5-19-FP GCAGCGTAAACTAACTTTCTAGACAAGGCTGG
SLX2-sa-OT5-19-RP CTGCGCATAAAGGATTTTATTTTCTGTATTTCC
SLX2-sa-OT5-20-FP GAGCGCTAAACTAACTTTCTAGACAAGGCTGG
SLX2-sa-OT5-20-RP CGCTCAGTAAAGGATTTTATTTTCTGTATTTCC

SLX2-sa-OT6-11-FP TTCTGCCTAACGAAAAAAGAGTCACAGGA
SLX2-sa-OT6-11-RP GCTCAGGAAAAAGGATGGAGTTGTATGAGA
SLX2-sa-OT6-12-FP AGGAGTCCAACGAAAAAAGAGTCACAGGA
SLX2-sa-OT6-12-RP CATGCCTAAAAAGGATGGAGTTGTATGAGA
SLX2-sa-OT6-13-FP GTAGAGAGAACGAAAAAAGAGTCACAGGA
SLX2-sa-OT6-13-RP CCTCTCTGAAAAGGATGGAGTTGTATGAGA
SLX2-sa-OT6-14-FP AGCGTAGCAACGAAAAAAGAGTCACAGGA
SLX2-sa-OT6-14-RP CAGCCTCGAAAAGGATGGAGTTGTATGAGA
SLX2-sa-OT6-15-FP TGCCTCTTAACGAAAAAAGAGTCACAGGA
SLX2-sa-OT6-15-RP TCCTCTACAAAAGGATGGAGTTGTATGAGA
SLX2-sa-OT6-16-FP TCATGAGCAACGAAAAAAGAGTCACAGGA
SLX2-sa-OT6-16-RP CCTGAGATAAAAGGATGGAGTTGTATGAGA
SLX2-sa-OT6-17-FP TAGCGAGTAACGAAAAAAGAGTCACAGGA
SLX2-sa-OT6-17-RP GTAGCTCCAAAAGGATGGAGTTGTATGAGA
SLX2-sa-OT6-18-FP TACTACGCAACGAAAAAAGAGTCACAGGA
SLX2-sa-OT6-18-RP AGGCTCCGAAAAGGATGGAGTTGTATGAGA
SLX2-sa-OT6-19-FP GCAGCGTAAACGAAAAAAGAGTCACAGGA
SLX2-sa-OT6-19-RP CTGCGCATAAAAGGATGGAGTTGTATGAGA
SLX2-sa-OT6-20-FP GAGCGCTAAACGAAAAAAGAGTCACAGGA
SLX2-sa-OT6-20-RP CGCTCAGTAAAAGGATGGAGTTGTATGAGA

SLX2-sa-OT7-11-FP TTCTGCCTCTAACCTTTTCCCCACTGTGT
SLX2-sa-OT7-11-RP GCTCAGGATGATTGCTGGACTTCGATATT
SLX2-sa-OT7-12-FP AGGAGTCCCTAACCTTTTCCCCACTGTGT
SLX2-sa-OT7-12-RP CATGCCTATGATTGCTGGACTTCGATATT
SLX2-sa-OT7-13-FP GTAGAGAGCTAACCTTTTCCCCACTGTGT
SLX2-sa-OT7-13-RP CCTCTCTGTGATTGCTGGACTTCGATATT
SLX2-sa-OT7-14-FP AGCGTAGCCTAACCTTTTCCCCACTGTGT
SLX2-sa-OT7-14-RP CAGCCTCGTGATTGCTGGACTTCGATATT
SLX2-sa-OT7-15-FP TGCCTCTTCTAACCTTTTCCCCACTGTGT
SLX2-sa-OT7-15-RP TCCTCTACTGATTGCTGGACTTCGATATT
SLX2-sa-OT7-16-FP TCATGAGCCTAACCTTTTCCCCACTGTGT
SLX2-sa-OT7-16-RP CCTGAGATTGATTGCTGGACTTCGATATT
SLX2-sa-OT7-17-FP TAGCGAGTCTAACCTTTTCCCCACTGTGT
SLX2-sa-OT7-17-RP GTAGCTCCTGATTGCTGGACTTCGATATT
SLX2-sa-OT7-18-FP TACTACGCCTAACCTTTTCCCCACTGTGT
SLX2-sa-OT7-18-RP AGGCTCCGTGATTGCTGGACTTCGATATT
SLX2-sa-OT7-19-FP GCAGCGTACTAACCTTTTCCCCACTGTGT
SLX2-sa-OT7-19-RP CTGCGCATTGATTGCTGGACTTCGATATT
SLX2-sa-OT7-20-FP GAGCGTACTAACCTTTTCCCCACTGTGT
SLX2-sa-OT7-20-RP CGCTCAGTTGATTGCTGGACTTCGATATT

SLX2-sa-OT8-11-FP TTCTGCCTTTTTGTGTGTGTTGTGTACAGTG

SLX2-sa-OT8-11-RP GCTCAGGAAATGTGTTGATTTTGTGAGGG
SLX2-sa-OT8-12-FP AGGAGTCCTTTTGTGTGTGTTGTGTACAGTG
SLX2-sa-OT8-12-RP CATGCCTAAATGTGTTGATTTTGTGAGGG
SLX2-sa-OT8-13-FP GTAGAGAGTTTTGTGTGTGTTGTGTACAGTG
SLX2-sa-OT8-13-RP CCTCTCTGAATGTGTTGATTTTGTGAGGG
SLX2-sa-OT8-14-FP AGCGTAGCTTTTGTGTGTGTTGTGTACAGTG
SLX2-sa-OT8-14-RP CAGCCTCGAATGTGTTGATTTTGTGAGGG
SLX2-sa-OT8-15-FP TGCCTCTTTTTTGTGTGTGTTGTGTACAGTG
SLX2-sa-OT8-15-RP TCCTCTACAATGTGTTGATTTTGTGAGGG
SLX2-sa-OT8-16-FP TCATGAGCTTTTGTGTGTGTTGTGTACAGTG
SLX2-sa-OT8-16-RP CCTGAGATAATGTGTTGATTTTGTGAGGG
SLX2-sa-OT8-17-FP TAGCGAGTTTTTGTGTGTGTTGTGTACAGTG
SLX2-sa-OT8-17-RP GTAGCTCCAATGTGTTGATTTTGTGAGGG
SLX2-sa-OT8-18-FP TACTACGCTTTTGTGTGTGTTGTGTACAGTG
SLX2-sa-OT8-18-RP AGGCTCCGAATGTGTTGATTTTGTGAGGG
SLX2-sa-OT8-19-FP GCAGCGTATTTTGTGTGTGTTGTGTACAGTG
SLX2-sa-OT8-19-RP CTGCGCATAATGTGTTGATTTTGTGAGGG
SLX2-sa-OT8-20-FP GAGCGCTATTTTGTGTGTGTTGTGTACAGTG
SLX2-sa-OT8-20-RP CGCTCAGTAATGTGTTGATTTTGTGAGGG

SLX2-sa-OT9-11-FP TTCTGCCTTGTCTGACACGTTGGGTTC
SLX2-sa-OT9-11-RP GCTCAGGAGCTGCTGGAGCCTTTCTAT
SLX2-sa-OT9-12-FP AGGAGTCCTGTCTGACACGTTGGGTTC
SLX2-sa-OT9-12-RP CATGCCTAGCTGCTGGAGCCTTTCTAT
SLX2-sa-OT9-13-FP GTAGAGAGTGTCTGACACGTTGGGTTC
SLX2-sa-OT9-13-RP CCTCTCTGGCTGCTGGAGCCTTTCTAT
SLX2-sa-OT9-14-FP AGCGTAGCTGTCTGACACGTTGGGTTC
SLX2-sa-OT9-14-RP CAGCCTCGGCTGCTGGAGCCTTTCTAT
SLX2-sa-OT9-15-FP TGCCTCTTTGTCTGACACGTTGGGTTC
SLX2-sa-OT9-15-RP TCCTCTACGCTGCTGGAGCCTTTCTAT
SLX2-sa-OT9-16-FP TCATGAGCTGTCTGACACGTTGGGTTC
SLX2-sa-OT9-16-RP CCTGAGATGCTGCTGGAGCCTTTCTAT
SLX2-sa-OT9-17-FP TAGCGAGTTGTCTGACACGTTGGGTTC
SLX2-sa-OT9-17-RP GTAGCTCCGCTGCTGGAGCCTTTCTAT
SLX2-sa-OT9-18-FP TACTACGCTGTCTGACACGTTGGGTTC
SLX2-sa-OT9-18-RP AGGCTCCGGCTGCTGGAGCCTTTCTAT
SLX2-sa-OT9-19-FP GCAGCGTATGTCTGACACGTTGGGTTC
SLX2-sa-OT9-19-RP CTGCGCATGCTGCTGGAGCCTTTCTAT
SLX2-sa-OT9-20-FP GAGCGCTATGTCTGACACGTTGGGTTC
SLX2-sa-OT9-20-RP CGCTCAGTGCTGCTGGAGCCTTTCTAT

SLX2-sa-OT10-11-FP TTCTGCCTACTGCTCCGGTCAGGAAC
SLX2-sa-OT10-11-RP GCTCAGGACAATCACAAACCTCACATATGG
SLX2-sa-OT10-12-FP AGGAGTCCACTGCTCCGGTCAGGAAC
SLX2-sa-OT10-12-RP CATGCCTACAATCACAAACCTCACATATGG
SLX2-sa-OT10-13-FP GTAGAGAGACTGCTCCGGTCAGGAAC
SLX2-sa-OT10-13-RP CCTCTCTGCAATCACAAACCTCACATATGG
SLX2-sa-OT10-14-FP AGCGTAGCACTGCTCCGGTCAGGAAC

SLX2-sa-OT10-14-RP CAGCCTCGCAATCACAAACCTCACATATGG
SLX2-sa-OT10-15-FP TGCCTCTTACTGCTCCGGTCAGGAAC
SLX2-sa-OT10-15-RP TCCTCTACCAATCACAAACCTCACATATGG
SLX2-sa-OT10-16-FP TCATGAGCACTGCTCCGGTCAGGAAC
SLX2-sa-OT10-16-RP CCTGAGATCAATCACAAACCTCACATATGG
SLX2-sa-OT10-17-FP TAGCGAGTACTGCTCCGGTCAGGAAC
SLX2-sa-OT10-17-RP GTAGCTCCCAATCACAAACCTCACATATGG
SLX2-sa-OT10-18-FP TACTACGCACTGCTCCGGTCAGGAAC
SLX2-sa-OT10-18-RP AGGCTCCGCAATCACAAACCTCACATATGG
SLX2-sa-OT10-19-FP GCAGCGTAACTGCTCCGGTCAGGAAC
SLX2-sa-OT10-19-RP CTGCGCATCAATCACAAACCTCACATATGG
SLX2-sa-OT10-20-FP GAGCGTAACTGCTCCGGTCAGGAAC
SLX2-sa-OT10-20-RP CGCTCAGTCAATCACAAACCTCACATATGG