

B351 T0 ENG1 contigs

T0 amplicons

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ACGCTTCCAGGCCGG-----CCCCATCACCGAC
ACGCTTCCAGGCCGGCGCCGCCA--T-CTACCCCATCACCGAC
ACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGAC
ACGCTTCCAGGCCGGCGCCGCCAT-----CCCCATCACCGAC
ACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGAC
ACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGAC
ACGCTTCCAGGCCGGCGCCGCCATCT-CTACCCCATCACCGAC
ACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGAC
ACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGAC
ACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGAC
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wildtype reference ACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGAC

t3 PAM

B373 T0 ENG1 contigs

T0 amplicons

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GACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGACCTCTCO
GACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGACCTCTCO
GACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGACCTCTCO
GACGCTTCCAGGCCGGCGCCGCC-----CACCGACCTCTCO
GACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGACCTCTCO
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wildtype reference GACGCTTCCAGGCCGGCGCCGCCAATCTCCTACCCCATCACCGACCTCTCO

t3 PAM

B374 TO ENG1 contigs

B389 T0 ENG1 contigs

B393 T0 ENG1 contigs

T0 amplicons	GAGGTGGTGA TGGGTAG ATGGGCGGCCGCC GAGGTGGTGA TGGGTAG ATGGGCGGCCGCC GAGGTGGTGA TGGGTAG AGGAGATGGGCGGCCGCC GAGGTGGTGA TGGGTAG ATGGGCGGCCGCC GAGGTGGTGA TGGGTAG AGGAGATGGGCGGCCGCC
wildtype reference	GAGGTGGTGA TGGGTAG AGGAGATGGGCGGCCGCC

t3 PAM

B395 T0 ENG1 contigs

T0 amplicons	CGGTGATGGGTAG---AGATGGGCGGC CGGTGATGGG-----GGGCGGC CGGTGATGGGTAG---AGATGGGCGGC CGGTGATGGGTAGGAAGATGGGCGGC CGGTGATGGGG-----ATGGGCGGC CGGTGATGGGTAG--AGATGGGCGGC CGGTGATAAGGTAGGGAGATGGGCGGC
wildtype reference	CGGTGATGGGTAGG-AGATGGGCGGC

t3 PAM

T1 ENG1 contigs B395.1 (cas9 negative)

T1 amplicons	CGGTGATGGGTAG-AGATGGGCGGC CGGTGATGGGTAG-AGATGGGCGGC CGGTGATGGGTAG-AGATGGGCGGC CGGTGATGGGTAG-AGATGGGCGGC CGGTGATGGGTAG-AGATGGGCGGC CGGTGATGGGTAG-AGATGGGCGGC
wildtype reference	CGGTGATGGGTAGGAGATGGGCGGC

t3 PAM

B396 T0 ENG1 contigs

T0 amplicons	CGGTGATGGGGTAGGAGATGGCGGCC CGGTGATGGGGTAG---ATGGCGGCC CGGTGATGGGTAG---ATGGCGGCC CGGTGATGGGGTAGGAGATGGCGGCC CGGTGATGGGTAG---ATGGCGGCC CGGTGATGGGTAGGAGATGGCGGCC
wildtype reference	CGGTGATGGGGTAGGAGATGGCGGCC

t3 PAM

T1 ENG1 contigs B396.1 (cas9 positive)

T1 amplicons	CGGTGATGGGGTAG---ATGGCGGCC CGGTGATGGGGTAG---ATGGCGGCC CGGTGATGGGTAG---ATGGCGGCC CGGTGATGGGTAG---ATGGCGGCC CGGTGATGGGTAG---ATGGCGGCC CGGTGATGGGTAG---ATGGCGGCC
wildtype reference	CGGTGATGGGGTAGGAGATGGCGGCC

t3 PAM

T1 ENG1 contigs B396.2 (cas9 negative)

T1 amplicons	CGGTGATGGGTAGGAGATGGCGGCC CGGTGATGGGTAG---ATGGCGGCC CGGTGATGGGTAG---ATGGCGGCC CGGTGATGGGTAGGAGATGGCGGCC CGGTGATGGGTAG---ATGGCGGCC CGGTGATGGGTAG---ATGGCGGCC
wildtype reference	CGGTGATGGGTAGGAGATGGCGGCC

t3 PAM

B410 T0 ENG1 contigs

T0 amplicons wildtype reference	<pre> GCCCAITCT--T--CCCATCACCGACCTCTCCGCGCTGCCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCTCAACCAGCGCCTCCA--GCCGCT GCCCAITCTC-TACCCCATCACCGACCTCTCCGCGCTGCCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCTCAACCAGCGCCTCCA--GCCGCT GCCCAITCTC-TACCCCATCACCGACCTCTCCGCGCTGCCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCTCAACCAGCGCCTCCA--GCCGCT GCCCAITCT--T--CCCATCACCGACCTCTCCGCGCTGCCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCTCAACCAGCGCCTCCATGCCGCT GCCCAITCTC-TACCCCATCACCGACCTCTCCGCGCTGCCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCTCAACCAGCGCCTCCATGCCGCT GCCCAITCTC-TACCCCATCACCGACCTCTCCGCGCTGCCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCTCAACCAGCGCCTCCATGCCGCT GCCCAITCTC-TACCCCATCACCGACCTCTCCGCGCTGCCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCTCAACCAGCGCCTCCATGCCGCT </pre>
	t3 PAM tA PAM

B411 T0 ENG1 contigs

T0 amplicons wildtype reference	<pre> CGGGGGGA-----AGCGTCGAACGGCGG CGGGGGGA-----AGCGTCGAACGGCGG CGGGGGGA-----AGCGTCGAACGGCGG CGGGGGGA-----AGCGTCGAACGGCGG CGGGGGGA-----AGCGTCGAACGGCGG CGGGGGAGCGCGGCCCGGGAGAGGGAGCGC-----AGATGGGCGGCCGCCGCGCTGGAAAGCGTCGAACGGCGG CGGGGGAGCGCGGCCCGGGAGAGGGAGCGC-----AGATGGGCGGCCGCCGCGCTGGAAAGCGTCGAACGGCGG CGGGGGAGCGCGGCCCGGGAGAGGGAGCGC-----AGATGGGCGGCCGCCGCGCTGGAAAGCGTCGAACGGCGG CGGGGGAGCGCGGCCCGGGAGAGGGAGCGCGTGGAAGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGGAGGGCGAGGTCGGTAGTGGGTAGGAGATGGGCGGCCGCCGCGCTGGAAAGCGTCGAACGGCGG </pre>
	tA PAM t3 PAM

T1 ENG1 contigs B411.1 (cas9 negative)

T1 amplicons wildtype reference	<pre> :GCCGTTCGACGCT-----TCCCAGGGCGCGCGCGG </pre>
	t3 PAM tA PAM

T1 ENG1 contigs B411.2 (cas9 negative)

B413 T0 ENG1 contigs

T0 amplicons	AGGGGAGCGCG	AGATGGGCGG
	AGGGGAGCGCG	AGATGGGCGG
wildtype reference	AGGGGAGCGCGCTGGAGGGCGCGTTGAAGGGGAGGTGGAAGTGGAGGCCTCGGAGAGGTAGGAGCAGGAGGCGAGCGCGAGAGGTGGTATGGGGTAGG	AGATGGGCGG

T1 ENG1 contigs B413.1

T1 amplicons	<code>GGGAGAGGGGAGC---TGGAGGC CGGGTTGAAGGGGAGGTGAAAGTGGAGGCCTCGGAGAGGTAGGAGCGGGAGGCAGCGCGAGAGGT CGGTATGGGT A--AGATGGGCGGC GCGGG</code>
	<code>GGGAGAGGGGAGC---TGGAGGC CGGGTTGAAGGGGAGGTGAAAGTGGAGGCCTCGGAGAGGTAGGAGCGGGAGGCAGCGCGAGAGGT CGGTATGGGT A--AGATGGGCGGC GCGGG</code>
wildtype reference	<code>GGGAGAGGGGAGCGGCGTGGAGGC CGGGTTGAAGGGGAGGTGAAAGTGGAGGCCTCGGAGAGGTAGGAGCGGGAGGCAGCGCGAGAGGT CGGTATGGGT AGGAGATGGGCGGC GCGGG</code>

T1 ENG1 contigs B413.2 (cas9 negative)

	AGAGGGGAGCGGCG-----	AGATGGCGGCGGCCGCGC
T1 amplicons	AGAGGGGAGCGGCG-----	AGATGGCGGCGGCCGCGC
	AGAGGGGAGCGGCG-----	AGATGGCGGCGGCCGCGC
wildtype reference	AGAGGGGAGCGGCGTGGAGGCGCGGTGAAGGGGAGGTGGAAGTGGAGGCCTCGGAGAGGTAGGAGCAGGGAGGCGAGCGCGAGAGGTCGGTATGGGTAGGAGATGGCGGCCGCGC	AGATGGCGGCGGCCGCGC
	tA PAM	t3 PAM

B420 TO ENG1 contigs

T0 amplicon	GGCGCCGCCCATCT-----	-----CGCGCTCCCCCTCCTC
wildtype reference	GGCGCCGCCCATCT <u>CC</u> CTACCCCATCACCGACCTCTCGCGCTCGCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCCTCAACCGCGCCTCCACGCCGCTCCCCCTCTC	
	t3 PAM	tA PAM
T0 amplicons	GGCGCCC <u>AT</u> CTT-----CCC <u>AT</u> CACCGACCTCTCGCGCTCGCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCCTCAACCGCGCCTCCA-GCCGCTCC	
	GGCGCCC <u>AT</u> CTT-----CCC <u>AT</u> CACCGACCTCTCGCGCTCGCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCCTCAACCGCGCCTCCA-GCCGCTCC	
	GGCGCCC <u>AT</u> CTT-----CCC <u>AT</u> CACCGACCTCTCGCGCTCGCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCCTCAACCGCGCCTCCA-GCCGCTCC	
	GGCGCCC <u>AT</u> CTT-----CCC <u>AT</u> CACCGACCTCTCGCGCTCGCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCCTCAACCGCGCCTCCA-GCCGCTCC	
wildtype reference	GGCGCCC <u>AT</u> CT <u>CCTACCCC</u> ATCACCGACCTCTCGCGCTCGCCTCCGCTCTACCTCTCGAGGCCTCCAACTTCCACCTCCCCCTCAACCGCGCCTCCA-GCCGCTCC	
	t3 PAM	tA PAM
T0 amplicon	GAGCGGC-TGGAGGGCGCGGTGAAGGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGAGCAGGAGGCGAGCGCGGAGAGGTGGTAGGGTAG-----GGGCGGCG	
wildtype reference	GAGCGGGGTGGAGGGCGCGGTGAAGGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGAGCAGGAGGCGAGCGCGGAGAGGTGGTAGGGAGATGGGCGGCG	
	tA PAM	t3 PAM

T1 ENG1 contigs B420.1

T1 ENG1 contigs B420.2 (cas9 negative)

B421 TO ENG1 contigs

T0 amplicons	CCCCATCTT----CCCCATCACCGACCTCTCCCGCGCTCGCCCTCCCGCTCCTACCTCTCCGAGGCCTCCAACTTCCACCTCCCTTCAACCGCGCCTCCATGCCGTC CCCCATCTT----CCCCATCACCGACCTCTCCCGCGCTCGCCCTCCCGCTCCTACCTCTCCGAGGCCTCCAACTTCCACCTCCCTTCAACCGCGCCTCCATGCCGTC CCCCATCTT----CCCCATCACCGACCTCTCCCGCGCTCGCCCTCCCGCTCCTACCTCTCCGAGGCCTCCAACTTCCACCTCCCTTCAACCGCGCCTCCA-CGCCGTC CCCCATCTT----CCCCATCACCGACCTCTCCCGCGCTCGCCCTCCCGCTCCTACCTCTCCGAGGCCTCCAACTTCCACCTCCCTTCAACCGCGCCTCCATGCCGTC CCCCATCTT----CCCCATCACCGACCTCTCCCGCGCTCGCCCTCCCGCTCCTACCTCTCCGAGGCCTCCAACTTCCACCTCCCTTCAACCGCGCCTCCATGCCGTC CCCCATCTT----CCCCATCACCGACCTCTCCCGCGCTCGCCCTCCCGCTCCTACCTCTCCGAGGCCTCCAACTTCCACCTCCCTTCAACCGCGCCTCCA-CGCCGTC CCCCATCTT----CCCCATCACCGACCTCTCCCGCGCTCGCCCTCCCGCTCCTACCTCTCCGAGGCCTCCAACTTCCACCTCCCTTCAACCGCGCCTCCATGCCGTC wildtype reference CCCCATCTCCTACCCCCATCACCGACCTCTCCCGCGCTCGCCCTCCCGCTCCTACCTCTCCGAGGCCTCCAACTTCCACCTCCCTTCAACCGCGCCTCCA-CGCCGTC	
t3 PAM	C	tA PAM

B422 T0 ENG1 contigs

T0 amplicons	GGAGAGGGGAGCGGC - TGGAGGCCGCGTTGAA GGAGAGGGGAGCGGC - TGGAGGCCGCGTTGAA GGAGAGGGGAGCGGC - TGGAGGCCGCGTTGAA GGAGAGGGGAGCGGC - TGGAGGCCGCGTTGAA GGAGAGGGGAGCGGC - TGGAGGCCGCGTTGAA GGAGAGGGGAGCGGC - TGGAGGCCGCGTTGAA
wildtype reference	GGAGAGGGGAGCGGC - TGGAGGCCGCGTTGAA

tA PAM

B423 T0 ENG1 contigs

T0 amplicons	GGGAGCGGC - TGGAGGCCGCGTTGAAGGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGAGCAGCGAGGTCGGTATGGGTA - GAGATGGCGGCC GGGAGCGGC - GGGAGCGGC - TGGAGGCCGCGTTGAAGGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGAGCAGCGAGGTCGGTATGGGTA - GAGATGGCGGCC GGGAGCGGC - GGGAGCGGC - TGGAGGCCGCGTTGAAGGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGAGCAGCGAGGTCGGTATGGGTA - GAGATGGCGGCC
wildtype reference	GGGAGCGGC GTGGAGGCCGCGTTGAAGGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGAGCAGCGAGGTCGGTATGGGTA AGGAGATGGCGGCC

tA PAM

t3 PAM

B426 T0 ENG1 contigs

T0 amplicons	CGGAGAGGT - GGCAGGCCGG CGGAGAGGT CGGTATGGGTAGGAGATGGCGGCCGG CGGAGAGGT - GGCAGGCCGG CGGAGAGGT CGGTATGGGTAGGAGATGGCGGCCGG CGGAGAGGT - GGCAGGCCGG CGGAGAGGT - GGCAGGCCGG CGGAGAGGT CGGTATGGGTAGGAGATGGCGGCCGG CGGAGAGGT CGGTATGGGTAGGAGATGGCGGCCGG
wildtype reference	CGGAGAGGT CGGTATGGGTAGGAGATGGCGGCCGG

t2 PAM

B427 T0 ENG1 contigs

T0 amplicons	GGGGTAGGAG-----CGGGCGCCGGCCTGGAAGCGTCGAACGGCGG GGGGTAGGAGAT-GGGCGGCCGGCCTGGAAGCGTCGAACGGCGG GGGGTAGGAGAT T GGGCGGCCGGCCTGGAAGCGTCGAACGGCGG GGGGTAGGAGAT-GGGCGGCCGGCCTGGAAGCGTCGAACGGCGG GGGGTAGGAGAT-GGGCGGCCGGCCTGGAAGCGTCGAACGGCGG GGGGTAGGAGA-----ACGGCGG GGGGTAGGAGAT-GGGCGGCCGGCCTGGAAGCGTCGAACGGCGG GGGGTAGGAGAT-GGGCGGCCGGCCTGGAAGCGTCGAACGGCGG GGGGTAGGAGAT-GGGCGGCCGGCCTGGAAGCGTCGAACGGCGG
wildtype reference	GGGGTAGGAGAT-GGGCGGCCGGCCTGGAAGCGTCGAACGGCGG

t2 PAM

B428 T0 ENG1 contigs

T0 amplicons	'GGTATGGGTAG-AGATGGGCGCGC GGTATGGGTAG-AGATGGGCGCGC GGTATGGGTAGGAGATGGGCGCGC GGTATGGGTAGGAGATGGGCGCGC GGTATGGGTAGGAGATGGGCGCGC GGTATGGGTAGGAGATGGGCGCGC GGTATGGGTAGGAGATGGGCGCGC GGTATGGGT-----GATGGGCGCGC GGTATGGGTAGGAGATGGGCGCGC
wildtype reference	'GGTATGGGTAGGAGATGGGCGCGC

t3 PAM

B429 T0 ENG1 contigs

T0 amplicons	AGGTCGGTATGGGTA---AGATGGGCGGCCGGCCT AGGTCGGTATGGGTAGG-AGATGGGCGGCCGGCCT AGGTCGGTATGGGTAGG T AGATGGGCGGCCGGCCT AGGTCGGTATGGGTAGG-AGATGGGCGGCCGGCCT AGGTCGGTATGGGTAGG-----CGGCCGCCGGCCT
wildtype reference	AGGTCGGTATGGGTAGG-AGATGGGCGGCCGGCCT

t3 PAM

B433 T0 ENG1 contigs

T0 amplicon GCGCCCCGGGAGA-----TGGGCGGCGCCGCC
wildtype reference GCGCCCCGGGAGGGGAGCGCGTGGAGCGCGGTGAAGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGAGCAGGAGGTCGGTAGGGTAGGAGATGGCGGCCGCC
tA PAM
t3 PAM

T0 amplicons | TCGGTGATGGG-----CGGCGCCGCC
T0 amplicons | TCGGTGATGGG-----CGGCGCCGCC
T0 amplicons | TCGGTGATGGG-----CGGCGCCGCC
wildtype reference TCGGTGATGGG~~TAGGAGATGGGCGGC~~CGGCGCCGCC
t3 PAM

B435 T0 ENG1 contigs

T0 amplicons | TGGGGTAGGAGATGGGCGGCCGCCCTTGAAGCGTCGAACGGCG
T0 amplicons | TGGGGTAGGAGATGGGCGGCCGCCCTTGAAGCGTCGAACGGCG
T0 amplicons | TGGGGTAGGAGATGGGCGGCCGCCCTTGAAGCGTCGAACGGCG
T0 amplicons | TGGGGTAGGAGATGGGCGGCCGCCCTTGAAGCGTCGAACGGCG
wildtype reference TGGGGTAGGAGATGGG~~CGGCCGCC~~CTTGAAGCGTCGAACGGCG
t2 PAM

B436 T0 ENG1 contigs

T0 amplicons | CATGACCCCTGC-----CCTACCCCATCA
T0 amplicons | CATGACCCCTGC-----CCTACCCCATCA
T0 amplicons | CATGACCCCTGC-----CCTACCCCATCA
T0 amplicons | CATGACCCCTGC-----CCTACCCCATCA
T0 amplicons | CATGACCCCTGC~~CCGCGCGGACGACGCCGCCCTCCGAAGGCGAGCGCGACT~~GGAGCCGCCGTTGACGCTTCCAGGCCGCCCTCT-----CCTACCCCATCA
T0 amplicons | CATGACCCCTGC~~CCGCGCGGACGACGCCGCCCTCCGAAGGCGAGCGCGACT~~GGAGCCGCCGTTGACGCTTCCAGGCCGCCCTCT-----CCTACCCCATCA
wildtype reference CATGACCCCTGC~~CCGCGCGGACGACGCCGCCCTCCGAAGGCGAGCGCGACT~~GGAGCCGCCGTTGACGCTTCCAGGCCGCCCTCT-----CCTACCCCATCA
t2 PAM

B438 T0 ENG1 contigs

T0 amplicons | GTTCGACGCTTCCAGGCCGGCGCCGCCATCTCTAACCCATCACCGACCTCTCCGCGCTCGCCTCCGCTCTAACCTCTCGAGGCCCTCCAACCTCCACCTCCCTCAACCGCGCTCCA---CGCTCCCCCTCTC|
GTTCGACGCTTCCAGGCCGGCGCCGCCATCTCTAACCCATCACCGACCTCTCCGCGCTCGCCTCCGCTCTAACCTCTCGAGGCCCTCCAACCTCCACCTCCCTCAACCGCGCTCCA---ACGCCGCTCCCCCTCTC|
GTTCGACGCTTCCAGGCCGGCGCCGCCATCTCTAACCCATCACCGACCTCTCCGCGCTCGCCTCCGCTCTAACCTCTCGAGGCCCTCCAACCTCCACCTCCCTCAACCGCGCTCCA---GCCGCTCCCCCTCTC|
wildtype reference | GTTCGACGCTTCCAGGCCGGCGCCGCCATCTCTAACCCATCACCGACCTCTCCGCGCTCGCCTCCGCTCTAACCTCTCGAGGCCCTCCAACCTCCACCTCCCTCAACCGCGCTCCA---GCCGCTCCCCCTCTC|
t1 PAM | tA PAM

B439 T0 ENG1 contigs

T0 amplicons | AGCGGCGCCCCCGG-----AAGCGTCGAACGG|
AGCGGCGCCCCCGGG-----TGGGCGGCGCCGGCTTGGAAAGCGTCGAACGG|
AGCGGCGCCCCCGGGAGA-----TGGGCGGCGCCGGCTTGGAAAGCGTCGAACGG|
AGCGGCGCCCCCGGGAGA-----TGGGCGGCGCCGGCTTGGAAAGCGTCGAACGG|
AGCGGCGCCCCCGGGAGA-----TGGGCGGCGCCGGCTTGGAAAGCGTCGAACGG|
AGCGGCGCCCCCGGGAGA-----TGGGCGGCGCCGGCTTGGAAAGCGTCGAACGG|
wildtype reference | AGCGGCGCCCCCGGGAGAGGGGAGCGCGTGGAGGCAGGTGAAGGGGAGGTGAAGTGGAGGCCTCGGAGAGGTAGGAGCAGGGAGGCTGGAGAGGTAGGAGCAGGGAGGTCGGTATGGGGTAGGAGATGGGCTGGAGAGGTAGGAGATGGGCGGCGCCCTTGGAAAGCGTCGAACGG|
tB PAM | t3 PAM

B440 T0 ENG1 contigs

T0 amplicons | :AGGGGAGCGG-----AGGC CGGTGAAGGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGAGCGGGAGGGAGCGCGGAGAGGT CGGTATGGGGTAGGAGATGGCGGCGCCGGCC-GGAAGCGTCGAACG|
:AGGGGAGCGCGTGGAGGC CGGTGAAGGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGAGCGGGAGGGAGCGCGGAGAGGT CGGTATGGGGTAGGAGATGGCGGCGCCGGCC-TGGAAAGCGTCGAACG|
wildtype reference | :AGGGGAGCGCGTGGAGGC CGGTGAAGGGGAGGTGGAAGTTGGAGGCCTCGGAGAGGTAGGAGCGGGAGGGAGCGCGGAGAGGT CGGTATGGGGTAGGAGATGGCGGCGCCGGCC-TGGAAAGCGTCGAACG|
tA PAM | t1 PAM

B442 T0 ENG1 contigs

T0 amplicons | GCGGGGGGAGCGGGCGCCCCGGGAGAGGGGAGCGGGC|
GCGGGGGGAGCGGGCGCCCCGGGAGAGGGGAGCGGGC|
GCGGGGGGAGCGGGCGCCCCGGGAGAGGGGAGCGGGC|
GCGGGGGGAGCGGGCGCCCCGGGAGAGGGGAGCGGGC|
wildtype reference | GCGGGGGGAGCGGGCGCCCCGGGAGAGGGGAGCGGGC|
t2 PAM

