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1	TCGCGCGTTT	CGGTGATGAC	GGTGAAAACC	TCTGACACAT	GCAGCTCCCC	AGCGCGCAAA	GCCACTACTG	CCACTTTTGG	AGACTGTGTA	CGTCGAGGGC
51	GAGACGGTCA	CAGCTTGTCT	GTAAGCGGAT	GCCGGGAGCA	GACAAGCCCC	CTCTGCCAGT	GTCGAACAGA	CATTTCGCTA	CGGCCCTCGT	CTGTTCTGGG
101	TCAGGGCGCG	TCAGCGGGTG	TTGGCGGGTG	TCGGGGCTGG	CTTAACTATG	AGTCCCAGCG	AGTCGCCCAC	AACCGCCCAC	AGCCCCGACC	GAATTGATAC
										ALPHA
151	CGGCATCAGA	GCAGATTGTA	CTGAGAGTGC	ACCATATGCG	GTGTGAAATA	GCCGTAGTCT	CGTCTAACAT	GACTCTCACG	TGGTATACGC	CACACTTTAT
										ALPHA
201	CCGCACAGAT	GCGTAAGGAG	AAAATACCGC	ATCAGGCGCC	ATTTCGCCAT	GGCGTGTCTA	CGCATTCCCT	TTTTATGGCG	TAGTCCGCGG	TAAGCGGTAA
										ALPHA
251	CAGGCTGCGC	AACTGTTGGG	AAGGGCGATC	GGTGCGGGCC	TCTTCGCTAT	GTCCGACGCG	TTGACAACCC	TTCCCGCTAG	CCACGCCCGG	AGAAGCGATA
										ALPHA
301	TACGCCAGCT	GGCGAAAGGG	GGATGTGCTG	CAAGGCGATT	AAGTTGGGTA	ATGCGGTCTA	CCGCTTTCCC	CCTACACGAC	GTTCCGCTAA	TTCAACCCAT
										ALPHA
351	ACGCCAGGGT	TTTCCCAGTC	ACGACGTTGT	AAAACGACGG	CCAGTGCCAC	TGCGGTCCCA	AAAGGGTCAG	TGCTGCAACA	TTTTGCTGCC	GGTCACGGTG
										PI-PspI
										ALPHA
401	CCATAATACC	CATAATAGCT	GTTTGCCAAC	CGGTCAACAT	GTGGAGCACG	GGTATTATGG	GTATTATCGA	CAAACGGTTG	GCCAGTTGTA	CACCTCGTGC
										PI-PspI
										CaMV 35S promoter
										CaMV dual 35S promoter + TEV enhancer
451	ACACACTTGT	CTACTCCAAA	AATATCAAAG	ATACAGTCTC	AGAAGACCAA	TGTGTGAACA	GATGAGGTTT	TTATAGTTTC	TATGTCAGAG	TCTTCTGGTT
										Accl
										CaMV 35S promoter
										CaMV dual 35S promoter + TEV enhancer
501	AGGGCAATTG	AGACTTTTCA	ACAAAGGGTA	ATATCCGGAA	ACCTCCTCGG	TCCCGTTAAC	TCTGAAAAGT	TGTTTCCCAT	TATAGGCCTT	TGGAGGAGCC
										BspEI
										CaMV 35S promoter
										CaMV dual 35S promoter + TEV enhancer
551	ATTCCATTGC	CCAGCTATCT	GTCACTTTAT	TGTGAAGATA	GTGGAAAAGG	TAAGGTAACG	GGTCGATAGA	CAGTGAAATA	ACACTTCTAT	CACCTTTTCC
										CaMV 35S promoter
										CaMV dual 35S promoter + TEV enhancer
601	AAGGTGGCTC	CTACAAATGC	CATCATTGCG	ATAAAGGAAA	GGCCATCGTT	TTCCACCGAG	GATGTTTACG	GTAGTAACGC	TATTTCCCTT	CCGGTAGCAA
										CaMV 35S promoter
										CaMV dual 35S promoter + TEV enhancer
651	GAAGATGCCT	CTGCCGACAG	TGGTCCCAA	GATGGACCCC	CACCCACGAG	CTTCTACGGA	GACGGCTGTC	ACCAGGTTT	CTACCTGGGG	GTGGGTGCTC

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	CaMV 35S promoter				
	CaMV dual 35S promoter + TEV enhancer				
701	GAGCATCGTG	GAAAAAGAAG	ACGTTCCAAC	CACGTCTTCA	AAGCAAGTGG
	CTCGTAGCAC	CTTTTTCTTC	TGCAAGGTTG	GTGCAGAAGT	TTCGTTCCACC
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
751	ATTGATGTGA	TAACATGGTG	GAGCACGACA	CACTTGTCTA	CTCCAAAAAT
	TAACACTACT	ATTGTACCAC	CTCGTGCTGT	GTGAACAGAT	GAGGTTTTTA
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
801	ATCAAAGATA	CAGTCTCAGA	AGACCAAAGG	GCAATTGAGA	CTTTTCAACA
	TAGTTTCTAT	GTCAGAGTCT	TCTGGTTTCC	CGTTAACTCT	GAAAAGTTGT
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
851	AAGGGTAATA	TCCGGAAACC	TCCTCGGATT	CCATTGCCCA	GCTATCTGTC
	TTCCATTAT	AGGCCTTTGG	AGGAGCCTAA	GGTAACGGGT	CGATAGACAG
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
901	ACTTTATTGT	GAAGATAGTG	GAAAAGGAAG	GTGGCTCCTA	CAAATGCCAT
	TGAAATAACA	CTTCTATCAC	CTTTTCCTTC	CACCGAGGAT	GTTTACGGTA
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
951	CATTGCGATA	AAGGAAAGGC	CATCGTTGAA	GATGCCTCTG	CCGACAGTGG
	GTAACGCTAT	TTCCTTTCCG	GTAGCAACTT	CTACGGAGAC	GGCTGTCACC
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
1001	TCCCAAAGAT	GGACCCCCAC	CCACGAGGAG	CATCGTGGAA	AAAGAAGACG
	AGGGTTTCTA	CCTGGGGGTG	GGTGCTCCTC	GTAGCACCTT	TTTCTTCTGC
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
1051	TTCCAACCAC	GTCTTCAAAG	CAAGTGGATT	GATGTGATAT	CTCCACTGAC
	AAGGTTGGTG	CAGAAGTTTC	GTTACACCTAA	CTACACTATA	GAGGTGACTG
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
1101	GTAAGGGATG	ACGCACAATC	CCACTATCCT	TCGCAAGACC	CTTCCTCTAT
	CATTCCTTAC	TGCGTGTTAG	GGTGATAGGA	AGCGTTCTGG	GAAGGAGATA
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
1151	ATAAGGAAGT	TCATTTTATT	TGGAGAGGAC	GTCGAGAGTT	CTCAACACAA
	TATTCCTTCA	AGTAAAGTAA	ACCTCTCCTG	CAGCTCTCAA	GAGTTGTGTT
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
1201	CATATACAAA	ACAAACGAAT	CTCAAGCAAT	CAAGCATTCT	ACTTCTATTG
	GTATATGTTT	TGTTTGCTTA	GAGTTCGTTA	GTTCGTAAGA	TGAAGATAAC
	CaMV 35S promoter		CaMV 35S promoter		
	CaMV dual 35S promoter + TEV enhancer				
1251	CAGCAATTTA	AATCATTTCT	TTTAAAGCAA	AAGCAATTTT	CTGAAAAATTT
	GTCGTTAAAT	TTAGTAAAGA	AAATTTTCGTT	TTCGTTAAAA	GACTTTTAAA

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translational enhancer; 5'-UTR from tobacco etch vi

	<u>CaMV dual 35S promoter + TEV enhanc</u>	<u>RFP CDS</u>	<u>RFP CDS</u>	<u>RFP CDS</u>	<u>RFP CDS</u>
		<u>RFP-C1 ORF</u>	<u>RFP-C1 ORF</u>	<u>RFP-C1 ORF</u>	<u>RFP-C1 ORF</u>
1301	TCACCATTTA CGAACGATAG AGTGGTAAAT GCTTGCTATC	<u>CCATGGCCTC</u> GGTACCGGAG	<u>CTCCGAGGAC</u> GAGGCTCCTG	<u>GTCATCAAGG</u> CAGTAGTTCC	
		<u>RFP CDS</u>	<u>RFP-C1 ORF</u>		
1351	AGTTCATGCG CTTCAAGGTG TCAAGTACGC GAAGTTCCAC	<u>CGCATGGAGG</u> GCGTACCTCC	<u>GCTCCGTGAA</u> CGAGGCACTT	<u>CGGCCACGAG</u> GCCGGTGCTC	
		<u>RFP CDS</u>	<u>RFP-C1 ORF</u>		
1401	TTCGAGATCG AGGGCGAGGG AAGCTCTAGC TCCCGCTCCC	<u>CGAGGGCCGC</u> GCTCCC GGCG	<u>CCCTACGAGG</u> GGGATGCTCC	<u>GCACCCAGAC</u> CGTGGGTCTG	
		<u>RFP CDS</u>	<u>RFP-C1 ORF</u>		
1451	CGCCAAGCTG AAGGTGACCA GCGGTTCGAC TTCCACTGGT	<u>AGGGCGGCC</u> TCCC GCCGGG	<u>CCTGCCCTTC</u> GGACGGGAAG	<u>GCCTGGGACA</u> CGGACCCTGT	
		<u>RFP CDS</u>	<u>RFP-C1 ORF</u>		
1501	TCCTGTCCCC TCAGTTCCAG AGGACAGGGG AGTCAAGGTC	<u>TACGGCTCCA</u> ATGCCGAGGT	<u>AGGCCTACGT</u> TCCGATGCA	<u>GAAGCACCCC</u> CTTCGTGGGG	
		<u>RFP CDS</u>	<u>RFP-C1 ORF</u>		
1551	GCCGACATCC CCGACTACTT CGGCTGTAGG GGCTGATGAA	<u>GAAGCTGTCC</u> CTTCGACAGG	<u>TTCCCCGAGG</u> AAGGGCTCC	<u>GCTTCAAGTG</u> CGAAGTTCAC	
		<u>RFP CDS</u>	<u>RFP-C1 ORF</u>		
1601	GGAGCGCGTG ATGAACTTCG CCTCGCGCAC TACTTGAAGC	<u>AGGACGGCGG</u> TCCTGCCGCC	<u>CGTGGTGACC</u> GCACCACTGG	<u>GTGACCCAGG</u> CACTGGGTCC	
		<u>RFP CDS</u>	<u>RFP-C1 ORF</u>		
1651	<u>PstI</u> ACTCCTCCCT GCAGGACGGC TGAGGAGGGA CGTCCTGCCG	<u>GAGTTCATCT</u> CTCAAGTAGA	<u>ACAAGGTGAA</u> TGTTCCACTT	<u>GCTGCGCGGC</u> CGACGCGCCG	
		<u>RFP CDS</u>	<u>RFP-C1 ORF</u>		
1701	ACCAACTTCC CCTCCGACGG TGTTTGAAGG GGAGGCTGCC	<u>CCCCGTAATG</u> GGGCATTAC	<u>CAGAAGAAGA</u> GTCTTCTTCT	<u>CCATGGGCTG</u> GGTACCCGAC	<u>NcoI</u>
		<u>RFP CDS</u>	<u>RFP-C1 ORF</u>		
1751	GGAGGCCTCC ACCGAGCGGA CCTCCGGAGG TGGCTCGCCT	<u>TGTACCCCGA</u> ACATGGGGCT	<u>GGACGGCGCC</u> CCTGCCGCGG	<u>CTGAAGGGCG</u> GACTTCCCGC	
		<u>RFP CDS</u>	<u>RFP-C1 ORF</u>		
1801	AGATCAAGAT GAGGCTGAAG TCTAGTTCTA CTCCGACTTC	<u>CTGAAGGACG</u> GACTTCCTGC	<u>GCGGCCACTA</u> CGCCGGTGAT	<u>CGACGCCGAG</u> GCTGCGGCTC	

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	RFP CDS				
	RFP-C1 ORF				
1851	GTCAAGACCA	CCTACATGGC	CAAGAAGCCC	GTGCAGCTGC	CCGGCGCCTA
	CAGTTCTGGT	GGATGTACCG	GTTCTTCGGG	CACGTCGACG	GGCCGCGGAT
	RFP CDS				
	RFP-C1 ORF				
1901	CAAGACCGAC	ATCAAGCTGG	ACATCACCTC	CCACAACGAG	GACTIONACCA
	GTTCTGGCTG	TAGTTCGACC	TGTAGTGGAG	GGTGTGCTC	CTGATGTGGT
	RFP-C1 ORF				
	RFP CDS				
	MCS				
	BspEI				
1951	TCGTGGAACA	GTACGAGCGC	GCCGAGGGCC	GCCACTCCAC	CGGCGCCTCC
	AGCACCTTGT	CATGCTCGCG	CGGCTCCCGG	CGGTGAGGTG	GCCGCGGAGG
	RFP-C1 ORF				
	MCS				
	BspEI	BglII	XhoI	SacI	PstI
	HindIII	EcoRI	Sall	KpnI	KpnI
	Accl	SacII			
2001	GGACTCAGAT	CTCGAGCTCA	AGCTTCCAAT	TCTGCAGTCG	ACGGTACCGC
	CCTGAGTCTA	GAGCTCGAGT	TCGAAGCTTA	AGACGTCAGC	TGCCATGGCG
	RFP-C1 ORF		CaMV 35S terminator		
	MCS				
	SmaI	XmaI	SmaI	BamHI	XbaI
2051	GGGCCCGGGA	TCCACCTAGT	CTAGAGTCCG	CAAAAATCAC	CAGTCTCTCT
	CCCGGCCCT	AGGTGGATCA	GATCTCAGGC	GTTTTTAGTG	GTCAGAGAGA
	CaMV 35S terminator				
2101	CTACAAATCT	ATCTCTCTCT	ATTTTTCTCC	AGAATAATGT	GTGAGTAGTT
	GATGTTTAGA	TAGAGAGAGA	TAAAAAGAGG	TCTTATTACA	CACTCATCAA
	CaMV 35S terminator				
2151	CCCAGATAAG	GGAATTAGGG	TTCTTATAGG	GTTTCGCTCA	TGTGTTGAGC
	GGTCTATTTC	CCTTAATCCC	AAGAATATCC	CAAAGCGAGT	ACACAACTCG
	CaMV 35S terminator				
2201	ATATAAGAAA	CCCTTAGTAT	GTATTTGTAT	TTGTAAAATA	CTTCTATCAA
	TATATTCTTT	GGGAATCATA	CATAAACATA	AACATTTTAT	GAAGATAGTT
	CaMV 35S terminator				
	NotI				
2251	TAAAATTTCT	AATTCCTAAA	ACCAAAATCC	AGTGACGCGG	CCGCACCCAT
	ATTTTAAAGA	TTAAGGATTT	TGGTTTTAGG	TCACTGCGCC	GGCGTGGGTA
	PI-PspI				
2301	AATACCCATA	ATAGCTGTTT	GCCAGTAATC	ATGGTCATAG	CTGTTTCCTG
	TTATGGGTAT	TATCGACAAA	CGGTCATTAG	TACCAGTATC	GACAAAGGAC
	PI-PspI				
2351	TGTGAAATTG	TTATCCGCTC	ACAATTCAC	ACAACATACG	AGCCGGAAGC
	ACACTTTAAC	AATAGGCGAG	TGTTAAGGTG	TGTTGTATGC	TCGGCCTTCG
2401	ATAAAGTGTA	AAGCCTGGGG	TGCCTAATGA	GTGAGCTAAC	TCACATTAAT
	TATTTACAT	TTCGGACCCC	ACGGATTACT	CACTCGATTG	AGTGTAAATTA

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2451	TGCGTTGCGC	TCACTGCCCC	CTTTCCAGTC	GGGAAACCTG	TCGTGCCAGC
	ACGCAACGCG	AGTGACGGGC	GAAAGGTCAG	CCCTTTGGAC	AGCACGGTCC
2501	TGCATTAATG	AATCGGCCAA	CGCGCGGGGA	GAGGCGGTTT	GCGTATTGGG
	ACGTAATTAC	TTAGCCGGTT	GCGCGCCCCT	CTCCGCCAAA	CGCATAACCC
2551	CGCTCTTCCG	CTTCCTCGCT	CACTGACTCG	CTGCGCTCGG	TCGTTCCGGCT
	GCGAGAAGGC	GAAGGAGCGA	GTGACTGAGC	GACGCGAGCC	AGCAAGCCGA
2601	GCGGCGAGCG	GTATCAGCTC	ACTCAAAGGC	GGTAATACGG	TTATCCACAG
	CGCCGCTCGC	CATAGTCGAG	TGAGTTTCCG	CCATTATGCC	AATAGGTGTC
2651	AATCAGGGGA	TAACGCAGGA	AAGAACATGT	GAGCAAAAAG	CCAGCAAAAAG
	TTAGTCCCCT	ATTGCGTCCT	TTCTTGTACA	CTCGTTTTTC	GGTCGTTTTTC
2701	GCCAGGAACC	GTAAAAAGGC	CGCGTTGCTG	GCGTTTTTCC	ATAGGCTCCG
	CGGTCCTTGG	CATTTTTTCCG	GCGCAACGAC	CGCAAAAAGG	TATCCGAGGC
2751	CCCCCTGAC	GAGCATCACA	AAAATCGACG	CTCAAGTCAG	AGGTGGCGAA
	GGGGGACTG	CTCGTAGTGT	TTTTAGCTGC	GAGTTCAGTC	TCCACCGCTT
2801	ACCCGACAGG	ACTATAAAGA	TACCAGGCGT	TTCCCCCTGG	AAGCTCCCTC
	TGGGCTGTCC	TGATATTTCT	ATGGTCCGCA	AAGGGGGACC	TTCGAGGGAG
2851	GTGCGCTCTC	CTGTTCCGAC	CCTGCCGCTT	ACCGGATACC	TGTCCGCCTT
	CACGCGAGAG	GACAAGGCTG	GGACGGCGAA	TGGCCTATGG	ACAGGCGGAA
2901	TCTCCCTTCG	GGAAGCGTGG	CGCTTTCTCA	ATGCTCACGC	TGTAGGTATC
	AGAGGGAAGC	CCTTCGCACC	GCGAAAGAGT	TACGAGTGCG	ACATCCATAG
2951	TCAGTTCGGT	GTAGGTCGTT	CGCTCCAAGC	TGGGCTGTGT	GCACGAACCC
	AGTCAAGCCA	CATCCAGCAA	GCGAGGTTCC	ACCCGACACA	CGTGCTTGGG
3001	CCCGTTCAGC	CCGACCGCTG	CGCCTTATCC	GGTAACTATC	GTCTTGAGTC
	GGGCAAGTCG	GGCTGGCGAC	GCGGAATAGG	CCATTGATAG	CAGAACTCAG
3051	CAACCCGGTA	AGACACGACT	TATCGCCACT	GGCAGCAGCC	ACTGGTAACA
	GTTGGGCCAT	TCTGTGCTGA	ATAGCGGTGA	CCGTCGTCGG	TGACCATTGT
3101	GGATTAGCAG	AGCGAGGTAT	GTAGGCGGTG	CTACAGAGTT	CTTGAAGTGG
	CCTAATCGTC	TCGCTCCATA	CATCCGCCAC	GATGTCTCAA	GAAC TTCACC
3151	TGGCCTAACT	ACGGCTACAC	TAGAAGGACA	GTATTTGGTA	TCTGCGCTCT
	ACCGGATTGA	TGCCGATGTG	ATCTTCCTGT	CATAAACCAT	AGACGCGAGA
3201	GCTGAAGCCA	GTTACCTTCG	GAAAAAGAGT	TGGTAGCTCT	TGATCCGGCA
	CGACTTCGGT	CAATGGAAGC	CTTTTTCTCA	ACCATCGAGA	ACTAGGCCGT
3251	AACAAACCAC	CGCTGGTAGC	GGTGGTTTTT	TTGTTTGCAA	GCAGCAGATT
	TTGTTTGGTG	GCGACCATCG	CCACCAAAAA	AACAAACGTT	CGTCGTCTAA
3301	ACGCGCAGAA	AAAAAGGATC	TCAAGAAGAT	CCTTTGATCT	TTTCTACGGG
	TGCGCGTCTT	TTTTTCCTAG	AGTTCTTCTA	GGAAACTAGA	AAAGATGCCC
3351	GTCTGACGCT	CAGTGGAACG	AAAACCTCAC	TTAAGGGATT	TTGGTCATGA
	CAGACTGCGA	GTCACCTTGC	TTTTGAGTGC	AATTCCCTAA	AACCAGTACT
3401	GATTATCAAA	AAGGATCTTC	ACCTAGATCC	TTTTAAATTA	AAAATGAAGT
	CTAATAGTTT	TTCTTAGAAG	TGGATCTAGG	AAAATTTAAT	TTTTACTTCA
3451	TTTAAATCAA	TCTAAAGTAT	ATATGAGTAA	ACTTGGTCTG	ACAGTTACCA
	AAATTTAGTT	AGATTTTCATA	TATACTCATT	TGAACCAGAC	TGTCAATGGT
				beta-lactamase (ampicillin resistanc	
3501	ATGCTTAATC	AGTGAGGCAC	CTATCTCAGC	GATCTGTCTA	TTTCGTTTCAT
	TACGAATTAG	TCACTCCGTG	GATAGAGTCG	CTAGACAGAT	AAAGCAAGTA
				beta-lactamase (ampicillin resistance)	

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3551 CCATAGTTGC CTGACTCCCC GTCGTGTAGA TAACTACGAT ACGGGAGGGC
GGTATCAACG GACTGAGGGG CAGCACATCT ATTGATGCTA TGCCCTCCCG

beta-lactamase (ampicillin resistance)

3601 TTACCATCTG GCCCCAGTGC TGCAATGATA CCGCGAGACC CACGCTCACC
AATGGTAGAC CGGGGTCACG ACGTTACTAT GGCGCTCTGG GTGCGAGTGG

beta-lactamase (ampicillin resistance)

3651 GGCTCCAGAT TTATCAGCAA TAAACCAGCC AGCCGGAAGG GCCGAGCGCA
CCGAGGTCTA AATAGTCGTT ATTTGGTCCG TCGGCCTTCC CGGCTCGCGT

beta-lactamase (ampicillin resistance)

3701 GAAGTGGTCC TGCAACTTTA TCCGCCTCCA TCCAGTCTAT TAATTGTTGC
CTTCACCAGG ACGTTGAAAT AGGCGGAGGT AGGTCAGATA ATTAACAACG

beta-lactamase (ampicillin resistance)

3751 CGGGAAGCTA GAGTAAGTAG TTCGCCAGTT AATAGTTTGC GCAACGTTGT
GCCCTTCGAT CTCATTCAATC AAGCGGTCAA TTATCAAACG CGTTGCAACA

beta-lactamase (ampicillin resistance)

3801 TGCCATTGCT ACAGGCATCG TGGTGTACAG CTCGTCGTTT GGTATGGCTT
ACGGTAAACGA TGTCGGTAGC ACCACAGTGC GAGCAGCAAA CCATACCGAA

beta-lactamase (ampicillin resistance)

3851 CATTCAAGCTC CGGTTCCCAA CGATCAAGGC GAGTTACATG ATCCCCATG
GTAAGTCGAG GCCAAGGGTT GCTAGTTCCG CTCAATGTAC TAGGGGGTAC

beta-lactamase (ampicillin resistance)

3901 TTGTGCAAAA AAGCGGTTAG CTCCTTCGGT CCTCCGATCG TTGTCAGAAG
AACACGTTTT TTCGCCAATC GAGGAAGCCA GGAGGCTAGC AACAGTCTTC

beta-lactamase (ampicillin resistance)

3951 TAAGTTGGCC GCAGTGTAT CACTCATGGT TATGGCAGCA CTGCATAATT
ATTCAACCGG CGTCACAATA GTGAGTACCA ATACCGTCGT GACGTATTAA

beta-lactamase (ampicillin resistance)

4001 CTCTTACTGT CATGCCATCC GTAAGATGCT TTTCTGTGAC TGGTGAGTAC
GAGAATGACA GTACGGTAGG CATTCTACGA AAAGACACTG ACCACTCATG

beta-lactamase (ampicillin resistance)

4051 TCAACCAAGT CATTCTGAGA ATAGTGTATG CGGCGACCGA GTTGCTCTTG
AGTTGGTTCA GTAAGACTCT TATCACATAC GCCGCTGGCT CAACGAGAAC

beta-lactamase (ampicillin resistance)

4101 CCCGGCGTCA ATACGGGATA ATACCGCGCC ACATAGCAGA ACTTTAAAAG
GGGCCGAGT TATGCCCTAT TATGGCGCGG TGTATCGTCT TGAATTTTTC

beta-lactamase (ampicillin resistance)

4151 TGCTCATCAT TGGAAAACGT TCTTCGGGGC GAAAACCTCT AAGGATCTTA
ACGAGTAGTA ACCTTTTGCA AGAAGCCCG CTTTTGAGAG TTCCTAGAAT

beta-lactamase (ampicillin resistance)

4201 CCGCTGTTGA GATCCAGTTC GATGTAACCC ACTCGTGCAC CCAACTGATC
GGCGACAACCT CTAGGTCAAG CTACATTGGG TGAGCACGTG GTTGACTAG

beta-lactamase (ampicillin resistance)

4251 TTCAGCATCT TTTACTTTCA CCAGCGTTTC TGGGTGAGCA AAAACAGGAA
AAGTCGTAGA AAATGAAAGT GGTGCGCAAAG ACCCACTCGT TTTTGTCTTT

beta-lactamase (ampicillin resistance)

4301 GGCAAAATGC CGCAAAAAG GGAATAAGGG CGACACGGAA ATGTTGAATA
CCGTTTTTACG GCGTTTTTTTC CTTTATTCCC GCTGTGCCTT TACAACCTAT

beta-lactamase (ampicillin resistance)

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4351 CTCATACTCT TCCTTTTTCA ATATTATTGA AGCATTATC AGGGTTATTG
GAGTATGAGA AGGAAAAAGT TATAATAACT TCGTAAATAG TCCCAATAAC
beta-lactamase (ampicillin resistanc

4401 TCTCATGAGC GGATACATAT TTGAATGTAT TTAGAAAAAT AAACAAATAG
AGAGTACTCG CCTATGTATA AACTTACATA AATCTTTTTA TTTGTTTATC

4451 GGGTTCCGCG CACATTTCCC CGAAAAGTGC CACCTGACGT CTAAGAAACC
CCCAAGGCGC GTGTAAAGGG GCTTTTCACG GTGGACTGCA GATTCTTTGG

4501 ATTATTATCA TGACATTAAC CTATAAAAAT AGGCGTATCA CGAGGCCCTT
TAATAATAGT ACTGTAATTG GATATTTTTA TCCGCATAGT GCTCCGGGAA

4551 TCGTC
AGCAG
