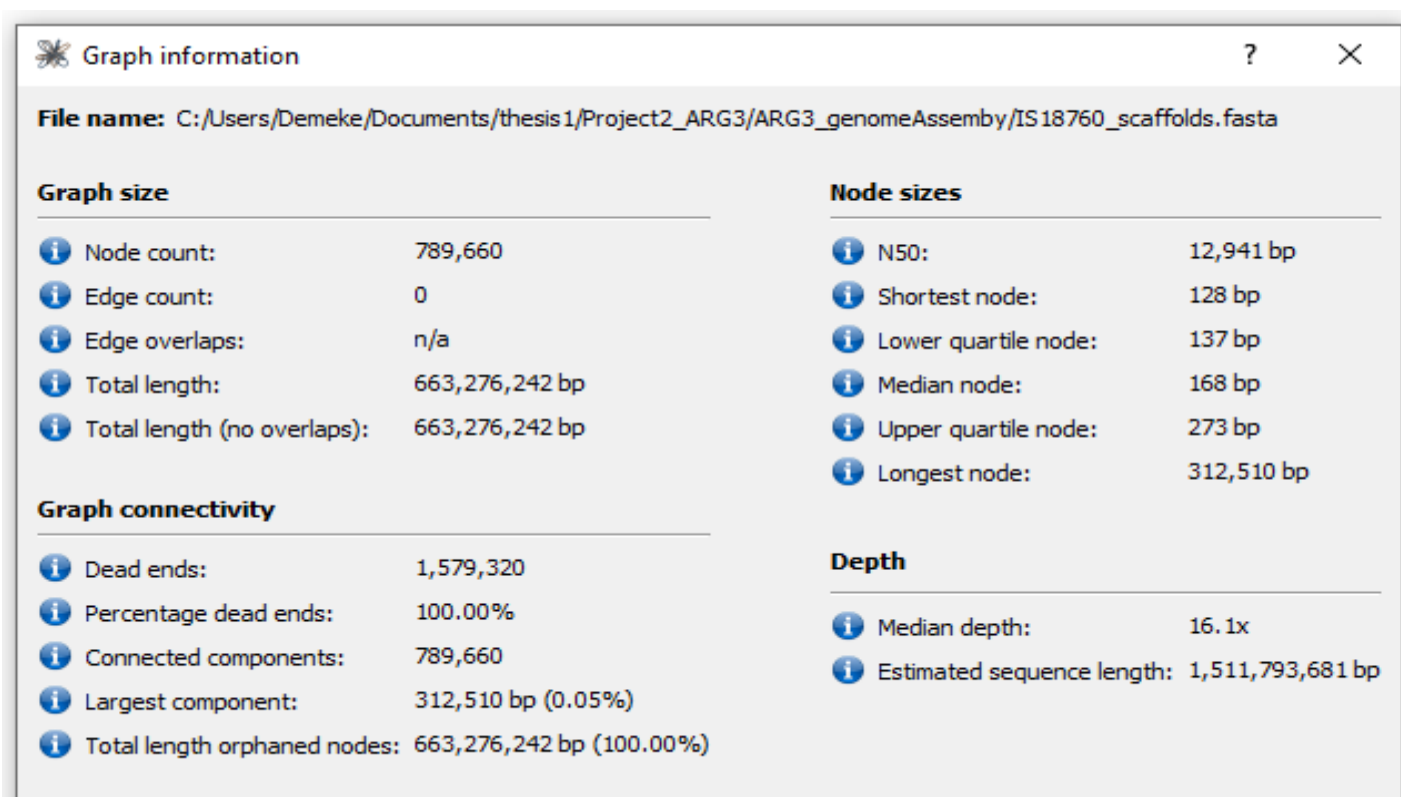



Supplemental_file_3 corresponds to page 79-81.

Summary statistics of the *de novo* genome assembly, and sequence alignment in the 31 Kb ARG3 genomic region. The data corresponds to figure 21e.

[a] A snapshot of the statistical summary to the *de novo* genome assembly of the ARG3 resistant parent IS18760.



[b] A snapshot of the statistical summary to the *de novo* genome assembly of the ARG3 resistant pooled-progeny sample.


 Graph information ? ✕

File name: C:/Users/Demeke/Documents/thesis1/Project2_ARG3/ARG3_genomeAssembly/ARG3rPOOL_scaffolds.fasta

Graph size		Node sizes	
Node count:	1,436,654	N50:	3,629 bp
Edge count:	0	Shortest node:	128 bp
Edge overlaps:	n/a	Lower quartile node:	137 bp
Total length:	833,441,000 bp	Median node:	173 bp
Total length (no overlaps):	833,441,000 bp	Upper quartile node:	283 bp
		Longest node:	155,219 bp






Graph connectivity		Depth	
Dead ends:	2,873,308	Median depth:	15.3x
Percentage dead ends:	100.00%	Estimated sequence length:	2,214,285,841 bp
Connected components:	1,436,654		
Largest component:	155,219 bp (0.02%)		
Total length orphaned nodes:	833,441,000 bp (100.00%)		

[c] A snapshot of the statistical summary to the *de novo* genome assembly of the ARG3 susceptible parent TAM428. The TAM428 genome resequencing was carried out before ARG2 and ARG3 studies were initiated and the sequence quality and coverage were low [as compared to IS18760 and the pooled samples] as shown in the assembly statistics. Accordingly, the desired assembly node from TAM428 was not only small but also not reliable. Thus, we opt to not use the sequence information obtained from TAM428 *de novo* genome assembly. In addition, the susceptible pooled-progeny genome of ARG3 mapping population failed to complete the *de novo* genome assembly. However, analysis of the BAM files of TAM428 with the ARG2 and ARG3 pooled-progeny genomes that had TAM428 as a common susceptible parent [via IGV] showed reliable information that the 31 KB ARG3 genomic region has identical sequences in TAM428 and BTx623.






 Graph information ? X

File name: C:/Users/Demeke/Documents/thesis1/Project2_ARG3/ARG3_genomeAssembly/TAM428_scaffolds.fasta







Graph size

-  Node count: 165,097
-  Edge count: 0
-  Edge overlaps: n/a
-  Total length: 316,595,751 bp
-  Total length (no overlaps): 316,595,751 bp



Graph connectivity

-  Dead ends: 330,194
-  Percentage dead ends: 100.00%
-  Connected components: 165,097
-  Largest component: 51,462 bp (0.02%)
-  Total length orphaned nodes: 316,595,751 bp (100.00%)

Node sizes

-  N50: 5,823 bp
-  Shortest node: 78 bp
-  Lower quartile node: 220 bp
-  Median node: 629 bp
-  Upper quartile node: 2,096 bp
-  Longest node: 51,462 bp

Depth










































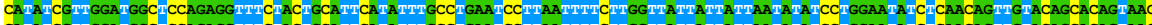



-  Median depth: 4.03x
-  Estimated sequence length: 1,013,245,340 bp

[d] The sequences alignment below shows the 31 Kb ARG3 genomic region in IS18760 as compared to the three *S. bicolor* reference genomes that carry defined genomic boundaries. Part of the sequence in the SbiRio reference genome was not determined as stated in the results part and figure 3e. The red shaded sequences around the beginning and the end of the alignment shows the indel size-markers that were used to determine the 31 Kb ARG3 genomic region via recombination analyses as shown in figure 3d and 3e.

	cov	pid	1	120
1 IS18760_ARG3_node	100.0%	100.0%	TAGTACAGAAAAGCCTCAGCGTGGCGTGGAAATTTATTTTTCAGGCGGTTCAATTAAGAACGCGCTGTAAGAAAGAAATCGGCGGGCCCAACCTCAAAAACCCAGTCAAAATAAATTT	
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	TAGTACAGAAAAGCCTCAGCGTGGCGTGGAAATTTATTTTTCAGGCGGTTCAATTAAGAACGCGCTGTAAGAAAGAAATCGGCGGGCCCAACCTCAAAAACCCAGTCAAAATAAATTT	
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	tagtacagaaaagctcagcggcggtggaaatttaattttttacagcggtttcaatttaagaaacgcccgttaaaagaaaacggcggggcccacccaacccaacccaagtgaaaaataaatt	
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	tagtacagaaaagctcagcggcggtggaaatttaattttttacagcggtttcaatttaagaaacgcccgttaaaagaaaacggcggggcccacccaacccaacccaagtgaaaaataaatt	
	cov	pid	121	240
1 IS18760_ARG3_node	100.0%	100.0%	TTTCAGGCGGGTTTTCCTAACAAACCGCGCTGAGAAATTAATCTTTCTACAGAACCCGCTCAAAAAATATTTCTACCCCTAGAGAAATTAATTAATTTGATTTTTCCTGAACTTTTC	
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	tttccaggcggttttcccttaacaaacccgctgtagaaataatctttttacagaaacccgctcaaaaaatattttcccccctagaaaaatatttgaattgtttttttgaactttttc	
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	tttcaggcggttttcccttaacaaacccgctgtagaaataatctttttacagaaacccgctcaaaaaatattttcccccctagaaaaatatttgaattgtttttttgaactttttc	
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	tttcaggcggttttcccttaacaaacccgctgtagaaataatctttttacagaaacccgctcaaaaaatattttcccccctagaaaaatatttgaattgtttttttgaactttttc	
	cov	pid	241	360
1 IS18760_ARG3_node	100.0%	100.0%	AAATGACCCCGTTTCAAAAAACCTCAAAATGAAAGTTAGAGCTCGAAAGTTAGAAACTTCTACCTTCAATTTTTCCTCGAAATCTGCTTCCTCGAAATCTCTCTTGAAT	
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	aaatgaccccggtttgaaaaaacctcaaaatgaaagttagagctcgaaaagttagaaacttttgatgataattttttcttcgaaactctgttttcctcgaaaactccgtttgaa	
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	aaatgaccccggtttgaaaaaacctcaaaatgaaagttagagctcgaaaagttagaaacttttgatgataattttttcttcgaaactctgttttcctcgaaaactccgtttgaa	
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	aaatgaccccggtttgaaaaaacctcaaaatgaaagttagagctcgaaaagttagaaacttttgatgataattttttcttcgaaactctgttttcctcgaaaactccgtttgaa	
	cov	pid	361	480
1 IS18760_ARG3_node	100.0%	100.0%	TTTCTCAATTTTGAATTAATTTTCTAAATGATCGAATGAAAACTCAAAATATAAAAGTTTCTAGATCTTGAAAAAGTTATGAAACTTTGAGTTGACCAACTTTTCCATTGAAAT	
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	tttctcaattttgaaattcaaaatttttttaaaagatcgaaaggaaaaactcccaataaaaaagtttttagaactttgaaaagttatgaaactttgtagttgacaacatttccatttgaat	
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	tttctcaattttgaaattcaaaatttttttaaaagatcgaaaggaaaaactcccaataaaaaagtttttagaactttgaaaagttatgaaactttgtagttgacaacatttccatttgaat	
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	tttctcaattttgaaattcaaaatttttttaaaagatcgaaaggaaaaactcccaataaaaaagtttttagaactttgaaaagttatgaaactttgtagttgacaacatttccatttgaat	
	cov	pid	481	600
1 IS18760_ARG3_node	100.0%	100.0%	CCATTTAGGGCTCAAAATAAATCAATGATGCGCGTTTAGGATAATATCTGGGGATCAAACTCTAATATAGACACAAATGAGTAATAGGTGGGGCCCTAAAGGAGGTTAGCGCGGAGGCG	
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	ccattttagggctccaaaataaataatgatgacgcgatttttaggataaatctgtggggaactaaactctaatatagacacaaaatgagtaataagggtggggccctaaaggagggttagcgcgaggcg	
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	ccattttagggctccaaaataaataatgatgacgcgatttttaggataaatctgtggggaactaaactctaatatagacacaaaatgagtaataagggtggggccctaaaggagggttagcgcgaggcg	
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	ccattttagggctccaaaataaataatgatgacgcgatttttaggataaatctgtggggaactaaactctaatatagacacaaaatgagtaataagggtggggccctaaaggagggttagcgcgaggcg	
	cov	pid	601	720
1 IS18760_ARG3_node	100.0%	100.0%	GAGGTCCTCAGGTTGGAATCCCTCCGACCCCGTAGCAGCGCAACTTCGACGGAGACGGCGGGCGATTAGCCAAATCGGCTTTTCTAGGATTAACAATTTTTCCTTAATA	
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	gaggctcctcaggttcgaaatccccccgaccccgtagcacgcgcaacttcgacggagacggcgggcgattagccaaatgggcttttccctaggattcaaat---ttttttttccctattcttaata	
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	gaggctcctcaggttcgaaatccccccgaccccgtagcacgcgcaacttcgacggagacggcgggcgattagccaaatgggcttttccctaggattcaaat---ttttttttccctattcttaata	
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	gaggctcctcaggttcgaaatccccccgaccccgtagcacgcgcaacttcgacggagacggcgggcgattagccaaatgggcttttccctaggattcaaat---ttttttttccctattcttaata	
	cov	pid	721	840
1 IS18760_ARG3_node	100.0%	100.0%	ACCGATTTCGT.TTTTCTAGAAAAAGATTTTCTACAGCGGAATCCCAACCGACCCGCTAGCACGCGATTTCGCGCAAAAAGTGCACGACTTGCAACCTCGATGGAGACGGCGGACGATTAG	
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	actgattttcgtttttctagaaaaagatttctacagcggaatccccccgaccccgtagcacgcgattttcccgaaaaagtgccgagacttgcaactcgttgagagacggcggaagattag	
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	actgattttcgtttttctagaaaaagatttctacagcggaatccccccgaccccgtagcacgcgattttcccgaaaaagtgccgagacttgcaactcgttgagagacggcggaagattag	
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	actgattttcgtttttctagaaaaagatttctacagcggaatccccccgaccccgtagcacgcgattttcccgaaaaagtgccgagacttgcaactcgttgagagacggcggaagattag	
	cov	pid	841	960
1 IS18760_ARG3_node	100.0%	100.0%	CCAGTGGGGTTTTCCTAGGGTTACAAATCTTTTTCCTTCTTCTTCTAATAAACTGATTTCTGT.TTTTCTAGAAAAAGATTTTCTACACCTAGAAATGCAATTTCTACATGGCGGTTCTAGTT	
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	ccagtggggttttccctagggttacaaatctttttttctattttctaaaaactgatttgcgtttttctagaaaaagatttctacacgtagaaatgcattttctacatggcggtttcttagtt	
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	ccagtggggttttccctagggttacaaatctttttttctattttctaaaaactgatttgcgtttttctagaaaaagatttctacacgtagaaatgcattttctacatggcggtttcttagtt	
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	ccagtggggttttccctagggttacaaatctttttttctattttctaaaaactgatttgcgtttttctagaaaaagatttctacacgtagaaatgcattttctacatggcggtttcttagtt	
	cov	pid	961	1080
1 IS18760_ARG3_node	100.0%	100.0%	ACCCGCGCTTGAAAAAATAATTTTCTACAGGCCCAAGCGTAGGCGGTTCCGCCAAACCCCGCTAGAGAAAGGGGTTGCGAACCGCCCTCTTAGTACCTCTGCTACTAGTCCCTTCGCCG	
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	acccgctctgaaaaaaattttttcaggcccaacgagcgttagggcgttcgccaacccgcccgtagaaaaggggttgcaaacccgctcttagtaccctgtttctagagccttcgcccg	
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	acccgctctgaaaaaaattttttcaggcccaacgagcgttagggcgttcgccaacccgcccgtagaaaaggggttgcaaacccgctcttagtaccctgtttctagagccttcgcccg	
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	acccgctctgaaaaaaattttttcaggcccaacgagcgttagggcgttcgccaacccgcccgtagaaaaggggttgcaaacccgctcttagtaccctgtttctagagccttcgcccg	
	cov	pid	1081	1200
1 IS18760_ARG3_node	100.0%	100.0%	CAATAGTAGTACAGATCGTCTGGATGATCCCTCCGTATCCGATGACGCTGCAATTTTTTTCCTGATAGTTGGTTGACATGACAAAAAAGAACATGGCTTATAGTTTAAATTC	
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	caatagtagtagacagatcgctctggatgatccctccgtatccgatgacgctgcaatTTTTTTTCCTGATAGTTGGTTGACATGACAAAAAAGAACATGGCTTATAGTTTAAATTC	
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	caatagtagtagacagatcgctctggatgatccctccgtatccgatgacgctgcaatTTTTTTTCCTGATAGTTGGTTGACATGACAAAAAAGAACATGGCTTATAGTTTAAATTC	
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	caatagtagtagacagatcgctctggatgatccctccgtatccgatgacgctgcaatTTTTTTTCCTGATAGTTGGTTGACATGACAAAAAAGAACATGGCTTATAGTTTAAATTC	

1	IS18760_ARG3_node	100.0%	100.0%	1201	3	1320
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	1321	4	1440
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	1441	5	1560
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	1561	6	1680
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	1681	7	1800
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	1801	9	1920
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	1921	0	2040
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	2041	1	2160
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	2161	2	2280
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	2281	3	2400
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	2401	5	2520
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	2521	6	2640
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			

1	IS18760_ARG3_node	100.0%	100.0%	2641	7	2760
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	2761	8	2880
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	2881	9	3000
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	3001	1	3120
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	3121	2	3240
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	3241	3	3360
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	3361	4	3480
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	3481	5	3600
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	3601	7	3720
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
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3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	3841	9	3960
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	3961	0	4080
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			

4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	4081	1	2	4200
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	4201	3	4320	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	4321	4	4440	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	4441	5	4560	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	4561	6	4680	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	4681	7	4800	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	4801	9	4920	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	4921	0	5040	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	5041	1	5160	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	5161	2	5280	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	5281	3	5400	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
		cov	pid	5401	5	5520	
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				

3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

ATTGAGGCTTGGAGAAAAGAAGCTTTCAACCCCAAAGTAGATATCTACAGCTTTGCAATTTCTCTCTGGGAACCTCCACCAATAAACATGCCCNTTGAGGGAATGCTAACTTTCACGCT
ATTGAGGCTTGGAGAAAAGAAGCTTTCAACCCCAAAGTAGATATCTACAGCTTTGCAATTTCTCTCTGGGAACCTCCACCAATAAACATGCCCNTTGAGGGAATGCTAACTTTCACGCT

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

5521 : 6 5640
TGCCTACCGTGCCTCTTTCAAGGTAAACACCTGATACCTAACTAGAGCCAACTTCTTGAAGGGCTCCCGGGTTAAGTTCTTTGGTCTTTTAATATACACACATCTCTGCTT
TGCCTACCGTGCCTCTTTCAAGGTAAACACCTGATACCTAACTAGAGCCAACTTCTTGAAGGGCTCCCGGGTTAAGTTCTTTGGTCTTTTAATATACACACATCTCTGCTT
TGCCTACCGTGCCTCTTTCAAGGTAAACACCTGATACCTAACTAGAGCCAACTTCTTGAAGGGCTCCCGGGTTAAGTTCTTTGGTCTTTTAATATACACACATCTCTGCTT
TGCCTACCGTGCCTCTTTCAAGGTAAACACCTGATACCTAACTAGAGCCAACTTCTTGAAGGGCTCCCGGGTTAAGTTCTTTGGTCTTTTAATATACACACATCTCTGCTT

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

5641 : 7 5760
GGTCTTTCAAAATAGTTCCATCACATGAACCTCTTTTCTTACACCACTACATCTCTTTTGAATTTGACTAGATGAAAGCCCTTTTCTGCAGAAATACAGACCAAGTGGTGAATAA
GGTCTTTCAAAATAGTTCCATCACATGAACCTCTTTTCTTACACCACTACATCTCTTTTGAATTTGACTAGATGAAAGCCCTTTTCTGCAGAAATACAGACCAAGTGGTGAATAA
GGTCTTTCAAAATAGTTCCATCACATGAACCTCTTTTCTTACACCACTACATCTCTTTTGAATTTGACTAGATGAAAGCCCTTTTCTGCAGAAATACAGACCAAGTGGTGAATAA
GGTCTTTCAAAATAGTTCCATCACATGAACCTCTTTTCTTACACCACTACATCTCTTTTGAATTTGACTAGATGAAAGCCCTTTTCTGCAGAAATACAGACCAAGTGGTGAATAA

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

5761 : 8 5880
CTTCCCAGGAGTTGCAGAAACCAACGCTCTGCTGGAAGGAAGACCAACCGACAGACCAAACTTACACAGATAGTCAAAATGCTCCATCATTTCCATCCACCCCTTCTCCACA
CTTCCCAGGAGTTGCAGAAACCAACGCTCTGCTGGAAGGAAGACCAACCGACAGACCAAACTTACACAGATAGTCAAAATGCTCCATCATTTCCATCCACCCCTTCTCCACA
CTTCCCAGGAGTTGCAGAAACCAACGCTCTGCTGGAAGGAAGACCAACCGACAGACCAAACTTACACAGATAGTCAAAATGCTCCATCATTTCCATCCACCCCTTCTCCACA
CTTCCCAGGAGTTGCAGAAACCAACGCTCTGCTGGAAGGAAGACCAACCGACAGACCAAACTTACACAGATAGTCAAAATGCTCCATCATTTCCATCCACCCCTTCTCCACA

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

5881 : 9 6000
AGAAACCTTGGCCCCCACCACCATTCAGTTGAGAGAACCAACCCCTTCCACAGGATCTCCTGGGAGGAGCTCGCCCAATGGCTCTCGGGGCGACCTAGGCGACACGCCAAAGGCGAA
AGAAACCTTGGCCCCCACCACCATTCAGTTGAGAGAACCAACCCCTTCCACAGGATCTCCTGGGAGGAGCTCGCCCAATGGCTCTCGGGGCGACCTAGGCGACACGCCAAAGGCGAA
AGAAACCTTGGCCCCCACCACCATTCAGTTGAGAGAACCAACCCCTTCCACAGGATCTCCTGGGAGGAGCTCGCCCAATGGCTCTCGGGGCGACCTAGGCGACACGCCAAAGGCGAA
AGAAACCTTGGCCCCCACCACCATTCAGTTGAGAGAACCAACCCCTTCCACAGGATCTCCTGGGAGGAGCTCGCCCAATGGCTCTCGGGGCGACCTAGGCGACACGCCAAAGGCGAA

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

6001 : 1 6120
GATGGAAGCAAGCCAAGGGGCTCTTTTCTCTGCTCAGTGAGTCTATAGCTCAACCCCAAGGGGAACCTGAGAACTTGCAAATACGAAATGAATGAACTCTCCCCGATGCCAGTCCG
GATGGAAGCAAGCCAAGGGGCTCTTTTCTCTGCTCAGTGAGTCTATAGCTCAACCCCAAGGGGAACCTGAGAACTTGCAAATACGAAATGAATGAACTCTCCCCGATGCCAGTCCG
GATGGAAGCAAGCCAAGGGGCTCTTTTCTCTGCTCAGTGAGTCTATAGCTCAACCCCAAGGGGAACCTGAGAACTTGCAAATACGAAATGAATGAACTCTCCCCGATGCCAGTCCG
GATGGAAGCAAGCCAAGGGGCTCTTTTCTCTGCTCAGTGAGTCTATAGCTCAACCCCAAGGGGAACCTGAGAACTTGCAAATACGAAATGAATGAACTCTCCCCGATGCCAGTCCG

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

6121 : 2 6240
ATCAAGCTCGGGCTCCATAGCCCATACCCCTGAAGATGGAAGTGTAGTCGAACCTGTTCTTCTGCTATTCAGCTCCCTGCACTCGCTGACCTCTTGGCATTCAGCAGGGTAAACCGG
ATCAAGCTCGGGCTCCATAGCCCATACCCCTGAAGATGGAAGTGTAGTCGAACCTGTTCTTCTGCTATTCAGCTCCCTGCACTCGCTGACCTCTTGGCATTCAGCAGGGTAAACCGG
ATCAAGCTCGGGCTCCATAGCCCATACCCCTGAAGATGGAAGTGTAGTCGAACCTGTTCTTCTGCTATTCAGCTCCCTGCACTCGCTGACCTCTTGGCATTCAGCAGGGTAAACCGG
ATCAAGCTCGGGCTCCATAGCCCATACCCCTGAAGATGGAAGTGTAGTCGAACCTGTTCTTCTGCTATTCAGCTCCCTGCACTCGCTGACCTCTTGGCATTCAGCAGGGTAAACCGG

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

6241 : 3 6360
TAACCTTTTGACTTCAGATAGTAATGATGGAAGAGCTTATCCCTGATATTTTCGGCCACCATATGGCTTAATGGAGTTACAGAGCCGACTTAAATGCCCCATATAGAAATAAACT
TAACCTTTTGACTTCAGATAGTAATGATGGAAGAGCTTATCCCTGATATTTTCGGCCACCATATGGCTTAATGGAGTTACAGAGCCGACTTAAATGCCCCATATAGAAATAAACT
TAACCTTTTGACTTCAGATAGTAATGATGGAAGAGCTTATCCCTGATATTTTCGGCCACCATATGGCTTAATGGAGTTACAGAGCCGACTTAAATGCCCCATATAGAAATAAACT
TAACCTTTTGACTTCAGATAGTAATGATGGAAGAGCTTATCCCTGATATTTTCGGCCACCATATGGCTTAATGGAGTTACAGAGCCGACTTAAATGCCCCATATAGAAATAAACT

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

6361 : 4 6480
AATAATTCACATTTTATCGCTTTGCTCTGCTGCAAAGGATACCTGGAAGCTCTCAGTTCCTGCTAGCAGCTTTGCTCTTTGGCCCTGCTCCCTACCCCTTCTGCTGCAAGCTGCAAGATTTCTCT
AATAATTCACATTTTATCGCTTTGCTCTGCTGCAAAGGATACCTGGAAGCTCTCAGTTCCTGCTAGCAGCTTTGCTCTTTGGCCCTGCTCCCTACCCCTTCTGCTGCAAGCTGCAAGATTTCTCT
AATAATTCACATTTTATCGCTTTGCTCTGCTGCAAAGGATACCTGGAAGCTCTCAGTTCCTGCTAGCAGCTTTGCTCTTTGGCCCTGCTCCCTACCCCTTCTGCTGCAAGCTGCAAGATTTCTCT
AATAATTCACATTTTATCGCTTTGCTCTGCTGCAAAGGATACCTGGAAGCTCTCAGTTCCTGCTAGCAGCTTTGCTCTTTGGCCCTGCTCCCTACCCCTTCTGCTGCAAGCTGCAAGATTTCTCT

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

6481 : 5 6600
AGTAGGAGAAACTTTCACTCTCTGATGCTTTACTTTGGCCCCGATCAGGGCAAACTTACTGAGATCCCGATCGGCTGGGGCTCCCTCCGCGCACCAAGCAGTTGCTCTCTTGCAGTT
AGTAGGAGAAACTTTCACTCTCTGATGCTTTACTTTGGCCCCGATCAGGGCAAACTTACTGAGATCCCGATCGGCTGGGGCTCCCTCCGCGCACCAAGCAGTTGCTCTCTTGCAGTT
AGTAGGAGAAACTTTCACTCTCTGATGCTTTACTTTGGCCCCGATCAGGGCAAACTTACTGAGATCCCGATCGGCTGGGGCTCCCTCCGCGCACCAAGCAGTTGCTCTCTTGCAGTT
AGTAGGAGAAACTTTCACTCTCTGATGCTTTACTTTGGCCCCGATCAGGGCAAACTTACTGAGATCCCGATCGGCTGGGGCTCCCTCCGCGCACCAAGCAGTTGCTCTCTTGCAGTT

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

6601 : 7 6720
GCAGCTACAGCCAAAAGGGCCAGCCGATCAGGGATCCCCAAAAGCTCTCCCTGCTTGTACAGCTGCTCTACAAACACAGCAGCAATTTCTCCAGACTCGTACACTTCCCTGGCCAGA
GCAGCTACAGCCAAAAGGGCCAGCCGATCAGGGATCCCCAAAAGCTCTCCCTGCTTGTACAGCTGCTCTACAAACACAGCAGCAATTTCTCCAGACTCGTACACTTCCCTGGCCAGA
GCAGCTACAGCCAAAAGGGCCAGCCGATCAGGGATCCCCAAAAGCTCTCCCTGCTTGTACAGCTGCTCTACAAACACAGCAGCAATTTCTCCAGACTCGTACACTTCCCTGGCCAGA
GCAGCTACAGCCAAAAGGGCCAGCCGATCAGGGATCCCCAAAAGCTCTCCCTGCTTGTACAGCTGCTCTACAAACACAGCAGCAATTTCTCCAGACTCGTACACTTCCCTGGCCAGA

cov pid
1 IS18760_ARG3_node 100.0% 100.0%
2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
3 BTX642_ARG3_4:49743985..49775977 99.4% 58.8%
4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

6721 : 8 6840
GGTGCACATCTCCAAATCTTTTCTCCCTTTTCAAAAAAAGAGATCTGTAATAGGTTTGGAGAAGTTATTTTTTTTTTAACTTTGACTACATTTATAAAAAAACATTTATCTTT
GGTGCACATCTCCAAATCTTTTCTCCCTTTTCAAAAAAAGAGATCTGTAATAGGTTTGGAGAAGTTATTTTTTTTTTAACTTTGACTACATTTATAAAAAAACATTTATCTTT
GGTGCACATCTCCAAATCTTTTCTCCCTTTTCAAAAAAAGAGATCTGTAATAGGTTTGGAGAAGTTATTTTTTTTTTAACTTTGACTACATTTATAAAAAAACATTTATCTTT
GGTGCACATCTCCAAATCTTTTCTCCCTTTTCAAAAAAAGAGATCTGTAATAGGTTTGGAGAAGTTATTTTTTTTTTAACTTTGACTACATTTATAAAAAAACATTTATCTTT

cov pid
1 IS18760_ARG3_node 100.0% 100.0%

6841 : 9 6960
AAATGGATTTATTTAAAAATTTTCTTAATTAATTAATTTGATTTTGTATTTTAAATATAGTACTCATCTTTTAAAGAAATATAGACTTTGTTAGTTTTTCTCTAAAGCT

2 BTX623_ARG3_4:55090987..55123019 99.4% 58.8%
 3 BTX623_ARG3_4:49743985..49775977 99.4% 58.8%
 4 RTX430_ARG3_4:50144987..50177189 99.7% 58.4%

	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

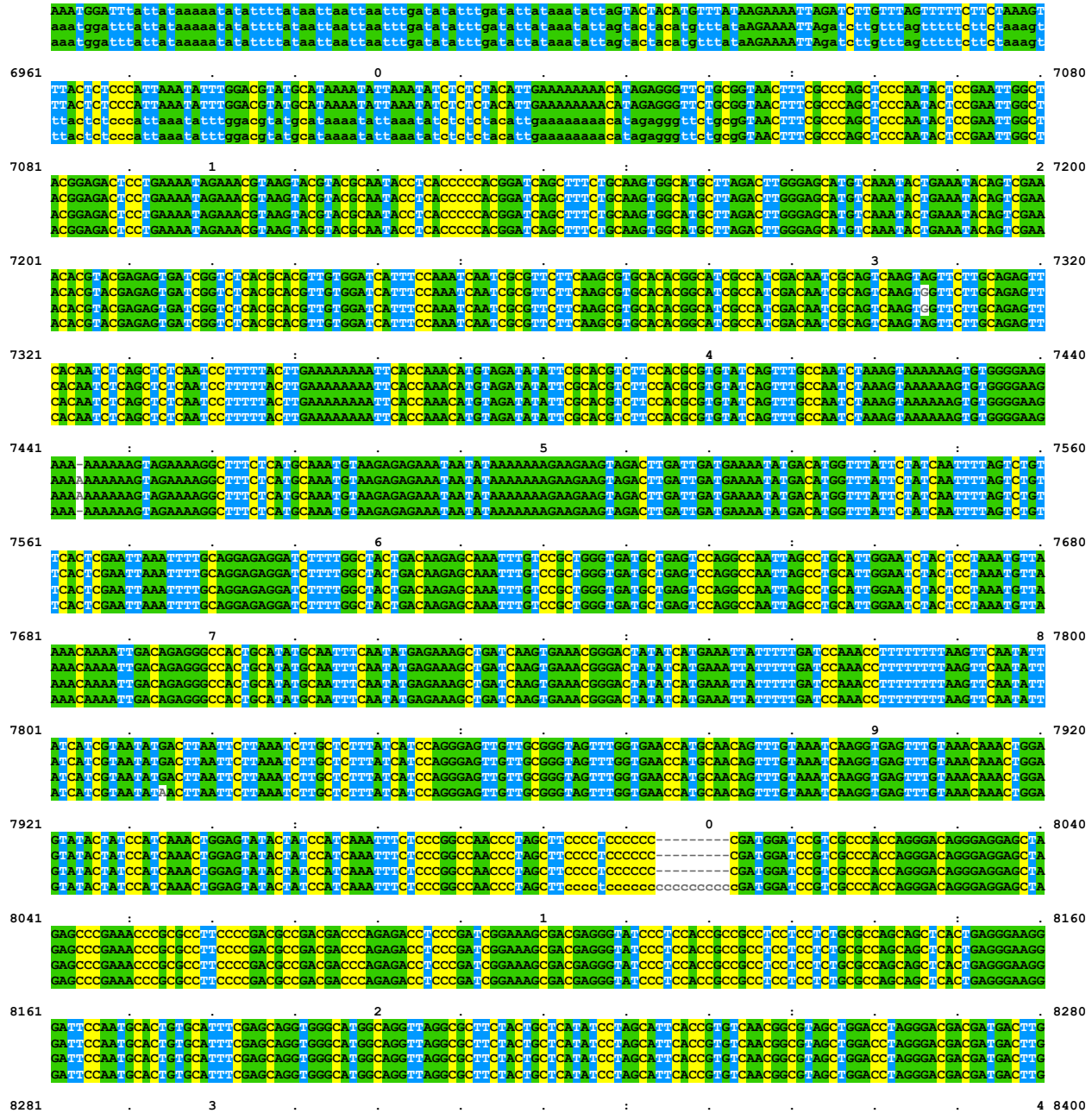
	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%









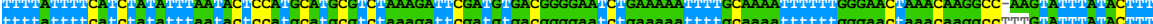



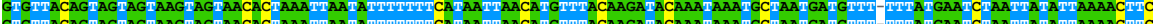










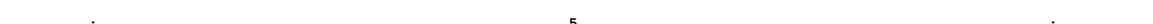







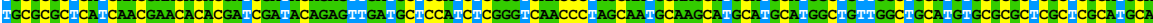





	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

	cov	pid
1 IS18760_ARG3_node	100.0%	100.0%
2 BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3 BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4 RTX430_ARG3_4:50144987..50177189	99.7%	58.4%



1	IS18760_ARG3_node	100.0%	100.0%	9721	ATACGTTAGGTTTCCGATGCAAAATTTATTAATAGTTTTTTTCTGAATATGATAAAACCTTCGTAGAGAATGCAGACAAAGATTCCGGGCAGTACGGTAAACCCGCGCAACCTTACGG	9840
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		ATACGTTAGGTTTCCGATGCAAAATTTATTAATAGTTTTTTTCTGAATATGATAAAACCTTCGTAGAGAATGCAGACAAAGATTCCGGGCAGTACGGTAAACCCGCGCAACCTTACGG	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		ATACGTTAGGTTTCCGATGCAAAATTTATTAATAGTTTTTTTCTGAATATGATAAAACCTTCGTAGAGAATGCAGACAAAGATTCCGGGCAGTACGGTAAACCCGCGCAACCTTACGG	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		ATACGTTAGGTTTCCGATGCAAAATTTATTAATAGTTTTTTTCTGAATATGATAAAACCTTCGTAGAGAATGCAGACAAAGATTCCGGGCAGTACGGTAAACCCGCGCAACCTTACGG	
1	IS18760_ARG3_node	100.0%	100.0%	9841	TTATATATCTAGTAGACTTAAAAAATCACTAATTAACAATTTGTGTACATTTTAGATCTCTTTAAATATATTAGTTCATATTTGTGTAGTCTAGTCTATAAATAAACTCAATAAAT	9960
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		TTATATATCTAGTAGACTTAAAAAATCACTAATTAACAATTTGTGTACATTTTAGATCTCTTTAAATATATTAGTTCATATTTGTGTAGTCTAGTCTATAAATAAACTCAATAAAT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		TTATATATCTAGTAGACTTAAAAAATCACTAATTAACAATTTGTGTACATTTTAGATCTCTTTAAATATATTAGTTCATATTTGTGTAGTCTAGTCTATAAATAAACTCAATAAAT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		TTATATATCTAGTAGACTTAAAAAATCACTAATTAACAATTTGTGTACATTTTAGATCTCTTTAAATATATTAGTTCATATTTGTGTAGTCTAGTCTATAAATAAACTCAATAAAT	
1	IS18760_ARG3_node	100.0%	100.0%	9961	TTCTGCTAATGACGGATGAATTAGGCTCAATAAATAGGCGGAGGCCCGGATGCGTTGTTCCAGCTTCAACGGGTCTGCGCTGCCAGCTCTCCAGAGGAGCCGAGGTCCGACGCTC	10080
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		TTCTGCTAATGACGGATGAATTAGGCTCAATAAATAGGCGGAGGCCCGGATGCGTTGTTCCAGCTTCAACGGGTCTGCGCTGCCAGCTCTCCAGAGGAGCCGAGGTCCGACGCTC	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		TTCTGCTAATGACGGATGAATTAGGCTCAATAAATAGGCGGAGGCCCGGATGCGTTGTTCCAGCTTCAACGGGTCTGCGCTGCCAGCTCTCCAGAGGAGCCGAGGTCCGACGCTC	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		TTCTGCTAATGACGGATGAATTAGGCTCAATAAATAGGCGGAGGCCCGGATGCGTTGTTCCAGCTTCAACGGGTCTGCGCTGCCAGCTCTCCAGAGGAGCCGAGGTCCGACGCTC	
1	IS18760_ARG3_node	100.0%	100.0%	10081	CAGCGCTTTTGGTGTACGCAATTTATCTAATTTGATATCCCTCCACACAGCTCTTGGTAGGCGCTTCAGCTGTGACCCCTTAGCGCGCTTGTACACCTTAGCTGACCTGAACCTC	10200
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		CAGCGCTTTTGGTGTACGCAATTTATCTAATTTGATATCCCTCCACACAGCTCTTGGTAGGCGCTTCAGCTGTGACCCCTTAGCGCGCTTGTACACCTTAGCTGACCTGAACCTC	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		CAGCGCTTTTGGTGTACGCAATTTATCTAATTTGATATCCCTCCACACAGCTCTTGGTAGGCGCTTCAGCTGTGACCCCTTAGCGCGCTTGTACACCTTAGCTGACCTGAACCTC	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		CAGCGCTTTTGGTGTACGCAATTTATCTAATTTGATATCCCTCCACACAGCTCTTGGTAGGCGCTTCAGCTGTGACCCCTTAGCGCGCTTGTACACCTTAGCTGACCTGAACCTC	
1	IS18760_ARG3_node	100.0%	100.0%	10201	TTTCTCTTAATATAAATGATACCGAGATCTCCATCGTATTTGAGAAAAAAGAACCGCTCGCAAGAGTAAAGACTTTATATAATTTGTTTAACTTACTCAAAATACCTCATATAA	10320
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		TTTCTCTTAATATAAATGATACCGAGATCTCCATCGTATTTGAGAAAAAAGAACCGCTCGCAAGAGTAAAGACTTTATATAATTTGTTTAACTTACTCAAAATACCTCATATAA	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		TTTCTCTTAATATAAATGATACCGAGATCTCCATCGTATTTGAGAAAAAAGAACCGCTCGCAAGAGTAAAGACTTTATATAATTTGTTTAACTTACTCAAAATACCTCATATAA	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		TTTCTCTTAATATAAATGATACCGAGATCTCCATCGTATTTGAGAAAAAAGAACCGCTCGCAAGAGTAAAGACTTTATATAATTTGTTTAACTTACTCAAAATACCTCATATAA	
1	IS18760_ARG3_node	100.0%	100.0%	10321	CAATTTGATCTGACAGACAATGCACACCTTTGAACCTTTCCACCCATAATTTAAACAAACCCAAATCTAAAAATTTTGGCTCATAGAGAAACAAAAAATAATGACCTCAACAGTCAA	10440
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		CAATTTGATCTGACAGACAATGCACACCTTTGAACCTTTCCACCCATAATTTAAACAAACCCAAATCTAAAAATTTTGGCTCATAGAGAAACAAAAAATAATGACCTCAACAGTCAA	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		CAATTTGATCTGACAGACAATGCACACCTTTGAACCTTTCCACCCATAATTTAAACAAACCCAAATCTAAAAATTTTGGCTCATAGAGAAACAAAAAATAATGACCTCAACAGTCAA	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		CAATTTGATCTGACAGACAATGCACACCTTTGAACCTTTCCACCCATAATTTAAACAAACCCAAATCTAAAAATTTTGGCTCATAGAGAAACAAAAAATAATGACCTCAACAGTCAA	
1	IS18760_ARG3_node	100.0%	100.0%	10441	CTCTCTTCTCAGGATCTTGAGCAACCCCTGATCTCTGCAATGCACATTCTCTCATCGATGGAATTTCTAGGAATCTCATAGAGATTTTATAACAAAAAAGAGAAATCCCATCTTT	10560
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		CTCTCTTCTCAGGATCTTGAGCAACCCCTGATCTCTGCAATGCACATTCTCTCATCGATGGAATTTCTAGGAATCTCATAGAGATTTTATAACAAAAAAGAGAAATCCCATCTTT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		CTCTCTTCTCAGGATCTTGAGCAACCCCTGATCTCTGCAATGCACATTCTCTCATCGATGGAATTTCTAGGAATCTCATAGAGATTTTATAACAAAAAAGAGAAATCCCATCTTT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		CTCTCTTCTCAGGATCTTGAGCAACCCCTGATCTCTGCAATGCACATTCTCTCATCGATGGAATTTCTAGGAATCTCATAGAGATTTTATAACAAAAAAGAGAAATCCCATCTTT	
1	IS18760_ARG3_node	100.0%	100.0%	10561	TTTCAGAGAAAAATCCCGCTTGAGCTAGAAAAAATCTCAGGCCCTTATTTAGTTCTGAAACCTTTTGTATTTTCAGAACTTAGCACTTTTCATTTTTATTCGACAAACCTTGCCCAATGGTA	10680
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		TTTCAGAGAAAAATCCCGCTTGAGCTAGAAAAAATCTCAGGCCCTTATTTAGTTCTGAAACCTTTTGTATTTTCAGAACTTAGCACTTTTCATTTTTATTCGACAAACCTTGCCCAATGGTA	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		TTTCAGAGAAAAATCCCGCTTGAGCTAGAAAAAATCTCAGGCCCTTATTTAGTTCTGAAACCTTTTGTATTTTCAGAACTTAGCACTTTTCATTTTTATTCGACAAACCTTGCCCAATGGTA	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		TTTCAGAGAAAAATCCCGCTTGAGCTAGAAAAAATCTCAGGCCCTTATTTAGTTCTGAAACCTTTTGTATTTTCAGAACTTAGCACTTTTCATTTTTATTCGACAAACCTTGCCCAATGGTA	
1	IS18760_ARG3_node	100.0%	100.0%	10681	GAGTAACCTAGGCTTAAAGATTTTCTCAGCAGAGGTAAATCTGCAATTTAGTTTTTATTTTATTTATTTTACATTTTATGCACTGCCCCAAGAATTAATCTGACGGGAACTCTTAA	10800
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		GAGTAACCTAGGCTTAAAGATTTTCTCAGCAGAGGTAAATCTGCAATTTAGTTTTTATTTTATTTATTTTACATTTTATGCACTGCCCCAAGAATTAATCTGACGGGAACTCTTAA	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		GAGTAACCTAGGCTTAAAGATTTTCTCAGCAGAGGTAAATCTGCAATTTAGTTTTTATTTTATTTATTTTACATTTTATGCACTGCCCCAAGAATTAATCTGACGGGAACTCTTAA	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		GAGTAACCTAGGCTTAAAGATTTTCTCAGCAGAGGTAAATCTGCAATTTAGTTTTTATTTTATTTATTTTACATTTTATGCACTGCCCCAAGAATTAATCTGACGGGAACTCTTAA	
1	IS18760_ARG3_node	100.0%	100.0%	10801	AAAAAATAATTTCTTTTTTGTCTGAATTAACAAGGCCCAAGTTTGGCTACGCGCGCGCTCCCTCCCTGGTGCTCTGAATGAGGCCAGGGGATCCAGGCTCGCTTGGCGGGCTCGCAAC	10920
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		AAAAAATAATTTCTTTTTTGTCTGAATTAACAAGGCCCAAGTTTGGCTACGCGCGCGCTCCCTCCCTGGTGCTCTGAATGAGGCCAGGGGATCCAGGCTCGCTTGGCGGGCTCGCAAC	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		AAAAAATAATTTCTTTTTTGTCTGAATTAACAAGGCCCAAGTTTGGCTACGCGCGCGCTCCCTCCCTGGTGCTCTGAATGAGGCCAGGGGATCCAGGCTCGCTTGGCGGGCTCGCAAC	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		AAAAAATAATTTCTTTTTTGTCTGAATTAACAAGGCCCAAGTTTGGCTACGCGCGCGCTCCCTCCCTGGTGCTCTGAATGAGGCCAGGGGATCCAGGCTCGCTTGGCGGGCTCGCAAC	
1	IS18760_ARG3_node	100.0%	100.0%	10921	GAAGCCCTACGCCAACGACACGATGGCAGCAGGCTTTGAAGCGGCCCGGGGACCGCGCCCCTCCCTCCGAGCTGCTCTCTCTCTGGAGCAGCTTGCATGCAACCGAATTTGTTTGGG	11040
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		GAAGCCCTACGCCAACGACACGATGGCAGCAGGCTTTGAAGCGGCCCGGGGACCGCGCCCCTCCCTCCGAGCTGCTCTCTCTCTGGAGCAGCTTGCATGCAACCGAATTTGTTTGGG	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		GAAGCCCTACGCCAACGACACGATGGCAGCAGGCTTTGAAGCGGCCCGGGGACCGCGCCCCTCCCTCCGAGCTGCTCTCTCTCTGGAGCAGCTTGCATGCAACCGAATTTGTTTGGG	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		GAAGCCCTACGCCAACGACACGATGGCAGCAGGCTTTGAAGCGGCCCGGGGACCGCGCCCCTCCCTCCGAGCTGCTCTCTCTCTGGAGCAGCTTGCATGCAACCGAATTTGTTTGGG	
1	IS18760_ARG3_node	100.0%	100.0%	11041	GCTTCCGCTCCCTCCGCGCGCGCGCGGAGGTGAGGGCCCGGGAGGCAGGGCCGGGACAGCGCGCGGACAGGAGCTCTAGGCCCTCAGGAGACGGACACGGACCTGAAGGGCCCGGCTCAGCTC	11160
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		GCTTCCGCTCCCTCCGCGCGCGCGCGGAGGTGAGGGCCCGGGAGGCAGGGCCGGGACAGCGCGCGGACAGGAGCTCTAGGCCCTCAGGAGACGGACACGGACCTGAAGGGCCCGGCTCAGCTC	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		GCTTCCGCTCCCTCCGCGCGCGCGCGGAGGTGAGGGCCCGGGAGGCAGGGCCGGGACAGCGCGCGGACAGGAGCTCTAGGCCCTCAGGAGACGGACACGGACCTGAAGGGCCCGGCTCAGCTC	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		GCTTCCGCTCCCTCCGCGCGCGCGCGGAGGTGAGGGCCCGGGAGGCAGGGCCGGGACAGCGCGCGGACAGGAGCTCTAGGCCCTCAGGAGACGGACACGGACCTGAAGGGCCCGGCTCAGCTC	

1	IS18760_ARG3_node	100.0%	100.0%	11161	2	11280
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	11281	3	11400
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	11401	5	11520
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	11521	6	11640
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	11641	7	11760
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	11761	8	11880
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	11881	9	12000
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	12001	1	12120
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	12121	2	12240
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	12241	3	12360
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	12361	4	12480
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			
1	IS18760_ARG3_node	100.0%	100.0%	12481	5	12600
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%			

4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		12601	7	12720
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%				
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		12721	8	12840
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		12841	9	12960
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		12961	0	13080
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		13081	1	13200
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		13201	3	13320
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		13321	4	13440
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		13441	5	13560
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		13561	6	13680
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		13681	7	13800
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		13801	9	13920
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				
1	IS18760_ARG3_node	100.0%	100.0%				
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		13921	0	14040
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%				
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%				

3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		14041
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		14161
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		14281
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		14401
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		14521
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		14641
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		14761
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		14881
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		15001
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		15121
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		15241
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		15361
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		15481
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		

1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

a t a t c t c t g g a t a a c g a c c g c t t c t c t g t c a a a t c a c c t g t a c a a c c c t t g a t a c c g t g c g a a c a g t t a c c a t a t c t a c c t g a g c a c c t c g g a t t t c a c g g a t g c g g c a a g a g a t a a
a t a t c t c t g g a t a a c g a c c g c t t c t c t g t c a a a t c a c c t g t a c a a c c c t t g a t a c c g t g c g a a c a g t t a c c a t a t c t a c c t g a g c a c c t c g g a t t t c a c g g a t g c g g c a a g a g a t a a
a t a t c t c t g g a t a a c g a c c g c t t c t c t g t c a a a t c a c c t g t a c a a c c c t t g a t a c c g t g c g a a c a g t t a c c a t a t c t a c c t g a g c a c c t c g g a t t t c a c g g a t g c g g c a a g a g a t a a

g t c a g a t t t g c c c t g t c g t t t t g t c t a t a a a t a g t t o c t t c t c g g g t a c t c c t t c t c t a t c a c a t c a t t c c a c a a c t c a a c t t t a c t t t c c g g c g g c g g c g t g t c a a a a g c t c
g t c a g a t t t g c c c t g t c g t t t t g t c t a t a a a t a g t t o c t t c t c g g g t a c t c c t t c t c t a t c a c a t c a t t c c a c a a c t c a a c t t t a c t t t c c g g c g g c g g c g t g t c a a a a g c t c
a t c a g a t t t g c c c t g t c g t t t t g t c t a t a a a t a g t t o c t t c t c g g g t a c t c c t t c t c t a t c a c a t c a t t c c a c a a c t c a a c t t t a c t t t t c c g g c g g c g g c g t g t c a a a a g c t c

: . . . 1 . . : 17160
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.....2.....:.....17280

t t t t t c g c a c c t g t t c a t c g c a a t c a t c t a c t g a a c a t t t t t t t t t t t t t t g t g - t t t t t t t t t a c c c c c a a a a c a c a t t a g g a a t t g g c c a a t a a a a t t g t c a t c c c c

t t t t t c g c a c c t g t t c a t c g c a a t c a t c t a c t g a a c a t t t t t t t t t t t t t t t t g t g - t t t t t t t t t a c c c c c a a a a c a c a t t a g g a a t t g g c c a a t a a a a t t g t c a t c c c c

t t t t t c g c a c c t g t t c a t c g c a a t c a t c t a c t g a a c a t t t t t t t t t t t t t t t t g t g t t t t t t t t t c a c c c c a a a a c a c a t t a g g a a t t g g c c a a t a a a a t t g t c a t c c c c

3 4 17400

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. . . : 2 18240
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1	IS18760_ARG3_node	100.0%	100.0%	18241	:	3	:	.	18360
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	18361	:	.	.	.	.	.	4	.	.	.	.	:	.	18480
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	18481	.	.	.	.	.	.	:	.	.	.	.	.	.	18600
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	18601	.	.	.	.	.	.	:	.	.	.	.	.	7	18720
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	18721	.	.	.	.	.	.	:	.	.	.	.	.	8	18840
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	18841	:	.	.	.	.	.	.	9	.	.	.	.	:	18960
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	18961	.	.	.	.	.	.	:	.	.	.	.	.	:	19080
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	19081	.	.	.	.	.	.	:	.	.	.	.	.	.	2 19200
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	19201	.	.	.	.	.	.	:	.	.	.	.	.	3	19320
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	19321	.	.	.	.	.	.	:	.	.	.	.	.	.	19440
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	19441	:	.	.	.	.	.	.	5	.	.	.	.	:	19560
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															
		cov	pid															
1	IS18760_ARG3_node	100.0%	100.0%	19561	.	.	.	.	.	.	:	.	.	.	.	.	:	19680
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%															
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%															
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%															

		cov	pid	19681	.	7	.	.	.	.	:	.	.	.	.	8	19800
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		agattctcctgacagtcattctccttcgccattgatatctccgaagacgaaggtgaagaagcaagttcctctcgagcagttgggatcgcatcgccagagatcagagccaagctagaaga												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		agattctcctgacagtcattctccttcgccattgatatctccgaagacgaaggtgaagaagcaagttcctctcgagcagttgggatcgcatcgccagagatcagagccaagctagaaga												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		agattctcccgacagtcattctccttcgccattgatatctccgaagacgaaggtgaagaagcaagttcctctcgggcagttgggatcgcatcgccagagatcagagccaagctagaaga												
		cov	pid	19801	.	.	.	.	.	.	:	.	.	.	.	9	19920
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		attgtcgccctccttcacaaagacacgggtcaactgggtogatgactctgacccggctaaaggttctgttcaaggctctcagaggccagattccaccgatgcccaggaaacctctctcca												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		attgtcgccctccttcacaaagacacgggtcaactgggtogatgactctgacccggctaaaggttctgttcaaggctctcagaggccagattccaccgatgcccaggaaacctctctcca												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		attgtcgccctccttcacaaagacacgggtcaactgggtogatgactctgacccggccaaaggttctgttcaaggctctcagaggccagattccaccgatgcccaggaaacctctctcca												
		cov	pid	19921	.	.	.	.	.	.	:	.	.	.	.	0	20040
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		ggccgcacatctggagagtcgtcaactgcagtcaccagagggcgctcgctgccttgccgatagagttgctcaaaccggcttcttgaggagatgataaagagaagctcctgaccgatga												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		ggccgcacatctggagagtcgtcaactgcagtcaccagagggcgctcgctgccttgccgatagagttgctcaaaccggcttcttgaggagatgataaagagaagctcctgaccgatga												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		ggccgcacatctggagagtcgtcaactgcagtcaccagagggcgctcgctgccttgccgatagagttgctcaaaccggcttcttgaggagatgataaagagaagctcctgaccgatga												
		cov	pid	20041	.	.	.	.	.	.	:	.	.	.	.	1	20160
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		aaagcacaagaccatcggtacottgaagtcacagggcgacacattgaacagagaagattcccgatttatcgccaaaagagaagccttgcctggcagaactcaagcaagtgaggagcgctct												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		aaagcacaagaccatcggtacottgaagtcacagggcgacacattgaacagagaagattcccgatttatcgccaaaagagaagccttgcctggcagaactcaagcaagtgaggagcgctct												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		aaagcacaagaccatcggtacottgaagtcacagggcgacacattgaacagagaagattcccgatttatcgccaaaagagaagccttgcctggcagaactcaagcaagtgaggagcgctct												
		cov	pid	20161	.	.	.	.	.	.	:	.	.	.	.	2	20280
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		atctcaagcccgacaggaagagagtcagttgccagagaccatcaaaactcttgtaataagaacggaaacgccatggctgcgaagcaactgcagctgaagaagaagctgaagccgatagaagg												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		atctcaagcccgacaggaagagagagtcagttgccagagaccatcaaaactcttgtaataagaacggaaacgccatggctgcgaagcaactgcagctgaagaagaagctgaagccgatagaagg												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		atctcaagcccgacaggaagagagagtcagttgccagagaccatcaaaactcttgtaataagaacggaaacgccatggctgcgaagcaactgcagctgaagaagaagctgaagccgatagaagg												
		cov	pid	20281	.	.	.	.	.	.	:	.	.	.	.	3	20400
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		ttctgcgatgaagacgtcaaaagaaatagaagcagccaaccagatccgcctacgcgctatatcgcccatccaagcgctgctaagtatgtgagctcttaccgcacaacacatcgcccttcc												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		ttctgcgatgaagacgtcaaaagaaatagaagcagccaaccagatccgcctacgcgctatatcgcccatccaagcgctgctaagtatgtgagctcttaccgcacaacacatcgcccttcc												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		ttatgcgatgaagacgtcaaaagaaatagaagcagccaaccagatccgcctacgcgctatatcgcccatccaagcgctgctaagtatgtgagctcttaccgcacaacacatcgcccttcc												
		cov	pid	20401	.	.	.	.	.	.	:	.	.	.	.	4	20520
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		cctgcctctcagctctcttgatatttagtctagccgataggactgttatcgcttttgcaacattaagtcgaccccaaacatattttactccagccgataggaaatgttatcggaacttaa												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		cctgcctctcagctctcttgatatttagtctagccgataggactgttatcgcttttgcaacattaagtcgaccccaaacatattttactccagccgataggaaatgttatcggaacttaa												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		cctgcctctcagctctcttgatatttagtctagccgataggactgttatcgcttttgcaacattaagtcgaccccaaacatattttactccagccgataggaaatgttatcggaacttaa												
		cov	pid	20521	.	.	.	.	.	.	:	.	.	.	.	5	20640
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		acttttatgcacatcgaccatatgttggggtagtagtctctttagatatatttgcggtttaaagctctgggaaattcgactccttcgagagtttccaaaatatagggcattaccaggagccgatc												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		acttttatgcacatcgaccatatgttggggtagtagtctctttagatatatttgcggtttaaagctctgggaaattcgactccttcgagagtttccaaaatatagggcattaccaggagccgatc												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		acttttatgcacatcgaccatatgttggggtagtagtctctttagatatatttgcggtttaaagctctgggaaattcgactccttcgagagtttccaaaatatagggcattaccaggagccgatc												
		cov	pid	20641	.	.	.	.	.	.	:	.	.	.	.	6	20760
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		gacttatccgatagggacccctcccaattgggagaccattttccaaattttgaatttttagtcccaatcggttaagattaatttccataactaagctctccatcgccaaactccttagccttta												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		gacttatccgatagggacccctcccaattgggagaccattttccaaattttgaatttttagtcccaatcggttaagattaatttccataactaagctctccatcgccaaactccttagccttta												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		gacttatccgatagggacccctcccaattgggagaccattttccaaattttgaatttttagtcccaatcggttaagattaatttccataactaagctctccatcgccaaactccttagccttta												
		cov	pid	20761	.	.	.	.	.	.	:	.	.	.	.	7	20880
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		cctcttattcgttaccatctggcgacccttttctattctctctatgctcatcaaaagcccttagccgatgcccctgctagatcatccaactcgtctgtcattagagtagcataatcatcgg												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		cctcttattcgttaccatctggcgacccttttctattctctctatgctcatcaaaagcccttagccgatgcccctgctagatcatccaactcgtctgtcattagagtagcataatcatcgg												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		cctcttattcgttaccatctggcgacccttttctattctctctatgctcatcaaaagcccttagccgatgcccctgctagatcatccaactcgtctgtcattagagtagcataatcatcgg												
		cov	pid	20881	.	.	.	.	.	.	:	.	.	.	.	8	21000
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		cagccaaactgatcttgaagaatagtcacactagatccagcctttaaacttcccaaggcaacactgcgctcatgcccatacaccactcaataagggtgaacacttggttgatccatgacaagcca												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		cagccaaactgatcttgaagaatagtcacactagatccagcctttaaacttcccaaggcaacactgcgctcatgcccatacaccactcaataagggtgaacacttggttgatccatgacaagcca												
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		cagccaaactgatcttgaagaatagtcacactagatccagcctttaaacttcccaaggcaacactgcgctcatgcccatacaccactcaataagggtgaacacttggttgatccatgacaagcca												
		cov	pid	21001	.	.	.	.	.	.	:	.	.	.	.	9	21120
1	IS18760_ARG3_node	100.0%	100.0%		-----												
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		tcgataggacccaaggtctcgtttaaacaatgtgtgcaacctcttagaattttctcaacttcccaatttaataagcttaataatcttctgttagacgctcgccctgcccattggctt												
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		tcgataggacccaaggtctcgtttaaacaatgtgtgcaacctcttagaattttctcaacttcccaatttaataagcttaataatcttctgttagacgctcgccctgcccattggctt												

4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	tcogtaggaccataaggcttctgtttaacaatgtgtgccacctcttaggattttcttcaactcccggttaataagcttaataatcccttgtagacgctcggcctgccattggctt	
		cov	pid	21121	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	21241	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	21361	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	21481	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	21601	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	21721	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	21841	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	21961	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	22081	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	22201	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	22321	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		
		cov	pid	22441	
1	IS18760_ARG3_node	100.0%	100.0%		
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		

3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	agaaaataagcataggcatagttttctcaatagccgaatcacctagtttcagcatcaatcaacctctgtcttaagtaataaaacacacgctttcttccttcaaatcttgaattaaagccg
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	agaaaataagcataggcatagttttctcaatagccgaatcacctatcttcagcatcaatcaacctctgtcttaagtaataaaacacacgctttcttccttcaaatcttgaattaaagccg
		cov	pid	22561
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	aaccgatgaccatctcttcggttagacaaatacaatcggaaggactttctctgtgaggtggaattaaaaactggaggattcaccaatactttttgatttcatccagagccaactgctggt
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	aaccgatgaccatctcttcggttagacaaatacaatcggaaggactttctctgtgaggtggaattaaaaactggaggattcaccaatactttttgatttcatccagagccaactgctggt
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	aaccgatgaccatctcttcggttagacaaatacaatcggaaggactttctctgtgaggtggaattaaaaactggaggattcaccaatactttttgatttcatccagagccaactgctggt
		cov	pid	22681
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	ccttcccccaataaaattcttgatcggtctttaacttaaaaagagggtgaaagcacgaattttaccagataaaattagatatgaacctcctgtataaaatttaccttgccgatcaaggact
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	ccttcccccaataaaattcttgatcggtctttaacttaaaaagagggtgaaagcacgaattttaccagataaaattagatatgaacctcctgtataaaatttaccttgccgatcaaggact
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	ccttcccccaataaaattcttgatcggtctttaacttaaaaagagggtgaaagcacgaattttaccagataaaattagatatgaacctcctgtataaaatttaccttgccgatcaaggact
		cov	pid	22801
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	ggagctcagctcttggttgatgggccaactatcttattgatggcgtaactggaatcgctgactaatttcaatcccccgctgggtgcaccaagaacccaagaatttgctcctgcgatcacaccaa
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	ggagctcagctcttggttgatgggccaactatcttattgatggcgtaactggaatcgctgactaatttcaatcccccgctgggtgcaccaagaacccaagaatttgctcctgcgatcacaccaa
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	ggagctcagctcttggttgatgggccaactatcttattgatggcgtaactggaatcgctgactaatttcaatcccccgctgggtgcaccaagaacccaagaatttgctcctgcgatcacaccaa
		cov	pid	22921
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	atgcacacttattgggggttcaattttcaaaccatgcttctctgtacactccaacacttttgcgaatcggaagatgctttgtgaaatctccagacttaaccaccacatcatcaatataaa
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	atgcacacttattgggggttcaattttcaaaccatgcttctctgtacactccaacacttttgcgaatcggaagatgctttgtgaaatctccagacttaaccaccacatcatcaatataaa
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	atgcacacttattgggggttcaattttcaaaccatgcttctctgtacactccaacacttttgcgaatcggaagatgctttgtgaaatctccagacttaaccaccacatcatcaatataaa
		cov	pid	23041
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	tttcaactatcttgcgcgataaaattcatgaaataaaaaattcaatggccctttgataagtagcaccagcatcttcttaagccaaaggctcatgactatccattcaaaccaatccaacatgaccag
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	tttcaactatcttgcgcgataaaattcatgaaataaaaaattcaatggccctttgataagtagcaccagcatcttcttaagccaaaggctcatgactatccattcaaaccaatccaacatgaccag
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	tttcaactatcttgcgcgataaaattcatgaaataaaaaattcaatggccctttgataagtagcaccagcatcttcttaagccaaaggctcatgactatccattcaaaccaatccaacatgaccag
		cov	pid	23161
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	ggcacttgaacgcagctcttgggaatatcttctcagccatgaattattgattgtacacctgcattggccatccataaagctaaataatccgatgccagccgcagcgtgcagtagtagatcgg
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	ggcacttgaacgcagctcttgggaatatcttctcagccatgaattattgattgtacacctgcattggccatccataaagctaaataatccgatgccagccgcagcgtgcagtagtagatcgg
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	ggcacttgaacgcagctcttgggaatatcttctcagccatgaattattgattgtacacctgcattggccatccataaagctaaataatccgatgccagccgcagcgtgcagtagtagatcgg
		cov	pid	23281
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	caagtggcattgggtatccatccatcggtgtgagctttatttgagattcctgaaatcaatgcagacccgaagcttcccggtctcttcttgtagacgggaagaacattagaaatccactcggcat
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	caagtggcattgggtatccatccatcggtgtgagctttatttgagattcctgaaatcaatgcagacccgaagcttcccggtctcttcttgtagacgggaagaacattagaaatccactcggcat
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	caagtggcattgggtatccatccatcggtgtgagctttatttgagattcctgaaatcaatgcagacccgaagcttcccggtctcttcttgtagacgggaagaacattggaatccactcggcat
		cov	pid	23401
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	agcgacactgcgcaataaaatttggtctcaataaagtttggttatttcagccttgatgtcaggaagaatattaggattacatcggcgagctggctgctgattgtggcgcaaatccagacttga
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	agcgacactgcgcaataaaatttggtctcaataaagtttggttatttcagccttgatgtcaggaagaatattaggattacatcggcgagctggctgctgattgtggcgcaaatccagacttga
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	agcgacactgcgcaataaaatttggtctcaataaagtttggttatttcagccttgatgtttaggaagaatattaggattacatcggcgagctggctgctgattgtggcgcaaatccagacttga
		cov	pid	23521
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	taggcaacogatgttcaacaaattgatcgggtccaaacaggcatctcagtaataatcccaagcaaaagcaattcttataatcttcttaacaaatcagtttaactgtgtgttacactcaggatcta
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	taggcaacogatgttcaacaaattgatcgggtccaaacaggcatctcagtaataatcccaagcaaaagcaattcttataatcttcttaacaaatcagtttaactgtgtgttacactcaggatcta
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	taggcaacogatgttcaacaaattgatcgggtccaaacaggcatctcagtaataatcccaagcaaaagcaattcttataatcttcttaacaaatcagtttaactgtgtgttacactcaggatcta
		cov	pid	23641
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	acttagcaactaaataaaagtggtgttaggttatacaccactacattatctactcttactagataatcgccgagtggtgaatcccttagcctaactttccatcatcggcgcaacatatccattta
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	acttagcaactaaataaaagtggtgttaggttatacaccactacattatctactcttactagataatcgccgagtggtgaatcccttagcctaactttccatcatcggcgcaacatatccattta
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	acttagcaactaaataaaagtggtgttaggttatacaccactacattatctactcttactagataatcgccgagtggtgaatcccttagcctaactttccatcatcggcgcaacatatccattta
		cov	pid	23761
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	aaaacotttgcgtcgaactgactgcttggtatcggtggaatttctgtaactcggcaaccttgagaaagtccttttcccaaatctctcctgtaaaatcacactagtcctttcataagtgctgtgctc
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	aaaacotttgcgtcgaactgactgcttggtatcggtggaatttctgtaactcggcaaccttgagaaagtccttttcccaaatctctcctgtaaaatcacactagtcctttcataagtgctgtgctc
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	aaaacotttgcgtcgaactgactgcttggtatcggtggaatttctgtaactcggcaaccttgagaaagtccttttcccaaatctctcctgtaaaatcacactagtcctttcataagtgctgtgctc
		cov	pid	23881
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	-----
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	-----
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	-----
		cov	pid	24000
1	IS18760_ARG3_node	100.0%	100.0%	-----

2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	tgcgcttgcgatgacataagaagaatctcctgggacaatctcaatcttgtcacctaccocctggaccaagcattggtgcattgtagatgggatgcaacaattagcatgaatccaatctct
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	tgcgcttgcgatgacataagaagaatctcctgggacaatctcaatcttgtcacctaccocctggaccaagcattggtgcattgtagatgggatgcaacaattagcatgaatccaatctct
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	tgccgatgcatgacataagaagaatctcctgggacaatctcaatcttgtcacctaccocctggaccaagcattggtgcattgtagatgggatgcaacaattagcatgaatccaatctct
		cov	pid	24001
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	tcccaacacgagattgtaagcacccctttccactgatcaagaagaagggtgtgcagaagggtttactgcogatagtagcaactctgcacatattgcccccttaacogggagacagcttcccttc
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	tcccaacacgagattgtaagcacccctttccactgatcaagaagaagggtgtgcagaagggtttactgcogatagtagcaactctgcacatattgcccccttaacogggagacagcttcccttc
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	tcccaacacgagattgtaagcacccctttccactgatcaagaagaagggtgtgcagaagggtttactgcogatagtagcaactctgcacatattgctcccttaacogggagacagcttcccttc
		cov	pid	24121
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	aaagtctttgagcatcatatcggtcttggttaaatcatggctctccttttccaagcttccgataactgcatacggcatgatattaatagcagctccaccatcaactagaaatcttgggtcat
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	aaagtctttgagcatcatatcggtcttggttaaatcatggctctccttttccaagcttccgataactgcatacggcatgatattaatagcagctccaccatcaactagaaatcttgggtcat
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	aaagtctttgagcatcatatcggtcttggttaaatcatgatctccttttccaagcttccgataactgcatacggcatgatattaatagcagctccaccatcaactagaaatcttgggtcat
		cov	pid	24212
1	IS18760_ARG3_node	100.0%	100.0%	-----
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	cggtgacctatctactttccctttaacaaacagggccttgaggtgctgcctttcatcatcggcaggcttttcaaatacacctgtcatcggatccagggccaaactgagctatttgggtcgga
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	cggtgacctatctactttccctttaacaaacagggccttgaggtgctgcctttcatcatcggcaggcttttcaaatacacctgtcatcggatccagggccaaactgagctatttgggtcgga
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	cggtgacctatctactttccctttaacaaacagggccttgaggtgctgcctttcatcatcggcaggcttttcaaatacacctgtcatcggatccagggccaaactgagctatttgggtcgga
		cov	pid	24241
1	IS18760_ARG3_node	100.0%	100.0%	-----
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3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	aaacttcaacctcatcatcactggatgggtgcaaggaaactccatcgggcaacataaaataccatggttgacaatctgcogattggacacctcccccttaggatctgattgtctgttgatccccagactg
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3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	cggtgacctatctactttccctttaacaaacagggccttgaggtgctgcctttcatcatcggcaggcttttcaaatacacctgtcatcggatccagggccaaactgagctatttgggtcgga
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		cov	pid	24361
1	IS18760_ARG3_node	100.0%	100.0%	-----
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3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	aaacttcaacctcatcatcactggatgggtgcaaggaaactccatcgggcaacataaaataccatggttgacaatctgcogattggacacctcccccttaggatctgattgtctgttgatccccagactg
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	aaacttcaacctcatcatcactggatgggtgcaaggaaactccatcgggcaacataaaataccatggttgacaatctgcogattggacacctcccccttaggatctgattgtctgttgatccccagactg
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3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	tccagagttctcccccttgcctcaactctctcgcctttgcgcgtgtaactctctctctctgcagctcctgggtcaactcctttcagacaccaggaggaggaagtgtgctgctgccttcccgctggggcg
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3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	atgtcggcgctctttctcttcccgacgatgatcctcttgcgtggcgccgatcctggctcctcaacgtgctgctcagtttcccgagggtctctgtgagttataacgatataccagatcggggagg
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	atgtcggcgctctttctcttcccgacgatgatcctcttgcgtggcgccgatcctggctcctcaacgtgctgctcagtttcccgagggtctctgtgagttataacgatataccagatcggggagg
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3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	ccttctcgtagctagtttctcttggactaagcctcttctcttggcatcggcggttagtgacctgatgctgaggatccacgatgcactcttctcagctgcttccgatgtcaggaccttggc
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4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	ctttcccttagcatccaacatgttctgtgggaaggagtgttgatcaaatcttcatcggctctctgggtcttgggaattgtcaaaccttgatcttccagactctatagccgatgtcagctgctg
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4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	ctttcccttagcatccaacatgttctgtgggaaggagtgttgatcaaatcttcatcggctctctgggtcttgggaattgtcaaaccttgatcttccagactctatagccgatgtcagctgctg

1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

25441 : . . . 5 . . . : . 25560

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2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

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		cov	pid
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2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

25561 . . . 6 . . . : . . 25680

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2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

25681 7 : 8 25800

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2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

25801 : 9 25920

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		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

25921 . : 0 . 26040

t t t c t c t a g a t c g g c c c a a g t a a c t a c t g a g t t g g g a g g c a a t g a t a t a a c t a g g t g a a g c g c a t c c a g a c a a t g a t g a c a g a a t a a g c g a a c c c t c a a c t c g t c c o c t a t t a c c a g c
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t t t c t c t a g a t c g g c c c a a g t a a c t a c t g a g t t g g g a g g c a a t g a t a t a a c t a g g t g a a g c g c a t c c a g a c a a t g a t g a c a g a a t a a g c g a a c c c t c a a c t c g t c c o c t a t t a c c a g c

		cov	pid
1	IS18760_ARG3_node	100.0%	100.0%
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

26041 : 1 . . . : 26160

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2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

26161 2 : 26280

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		cov	pid
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2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

[illegible]

		cov	pid
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2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

26401 : 5 26520

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		cov	pid
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2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

26521 . . . : . . . 6 . . . 26640

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2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%

26641 : 7 : 26760

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ctgt tgcac tgcag ctt gagt ctg ccg at gcg tt aggc at ct gga acg tt gga gct tga aat tcc agt gtg cgg ct ttc gac tag tag tt gca gta t act ggg gac tct ggt tca tgg

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4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		catgtctcggaggtgccgatgccaatagagatcttgcctctcatgtcaagtgtgtctgcgacgtgcccgcgctcaactctggagggaataccataaaccacacagttaggaggagggttcagttcc			
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3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		tgacactgcgatgccaacagattttagtcgagtttgaatctgccatctgaagtcgtgtaattgggttgcacatcgccgtagattgggcatgggtgactcccaacatgcttggcggaacaga			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		tgacactgcgatgccaacagattttagtcgagtttgaatctgccatctgaagtcgtgtaattgggttgcacatcgccgtagattgggcatgggtgactcccaacatgcttggcggaacagg			
1	IS18760_ARG3_node	100.0%	100.0%	27001	-----	1	-----	27120
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		aaatctccatgcccgacagcgccgtagcggccgatggagctgtgaccactggtagactttggctgggtgataagtggggcccacataatctgggtggcaattgttccttcctgaaagtctcttgc			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		aaatctccatgcccgacagcgccgtagcggccgatggagctgtgaccactggtagactttggctgggtgataagtggggcccacataatctgggtggcaattgttccttcctgaaagtctcttgc			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		aaatctccatgcccgacagcgccgtagcggccgatggagctgtgaccactggtagactttggctgggtgataagtggggcccacataatctgggtggcaattgttccttcctgaaagtctcttgc			
1	IS18760_ARG3_node	100.0%	100.0%	27121	-----	2	-----	27240
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		caacggcattaaaaacogtatttgacagcacacacagcttgggttaatacaaggacaggttgtagggcgttgcgacacatctcttgaagtttaccaggattggcttcaaaagttaacgtctgtgg			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		caacggcattaaaaacogtatttgacagcacacacagcttgggttaatacaaggacaggttgtagggcgttgcgacacatctcttgaagtttaccaggattggcttcaaaagttaacgtctgtgg			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		caacggcattaaaaacogtatttgacagcacacacagcttgggttaatacaaggacaggttgtagggcgttgcgacacatctcttgaagtttaccaggattggcttcaaaagttaacgtctgtgg			
1	IS18760_ARG3_node	100.0%	100.0%	27241	-----	3	-----	27360
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		tgccggcagtgcatctcttggatcaactcgccactctctgttcatgtctgaaggacctcaggcatgtgctctgttaactctccatggccttagcaatagcttgcctctgtcatctcttgag			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		tgccggcagtgcatctcttggatcaactcgccactctctgttcatgtctgaaggacctcaggcatgtgctctgttaactctccatggccttagcaatagcttgcctctgtcatctcttgag			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		tgccggcagtgcatctcttggatcaactcgccactctctgttcatgtctgaaggacctcaggcatgtgctctgttaactctccatggccttagcaatagcttgcctctgtcatctcttgag			
1	IS18760_ARG3_node	100.0%	100.0%	27361	-----	4	-----	27480
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		atgtgcttcogtcaacgggagtgacgttctcttgatcaaaactcagaagtcgacatgttgatcttgatcttgaaatctgtcccacggcggtgccaaaagatgtgttggtgcaaaagtctatctc			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		atgtgcttcogtcaacgggagtgacgttctcttgatcaaaactcagaagtcgacatgttgatcttgatcttgaaatctgtcccacggcggtgccaaaagatgtgttggtgcaaaagtctatctc			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		atgtgcttcogtcaacgggagtgacgttctcttgatcaaaactcagaagtcgacatgttgatcttgatcttgaaatctgtcccacggcggtgccaaaagatgtgttggtgcaaaagtctatctc			
1	IS18760_ARG3_node	100.0%	100.0%	27481	-----	5	-----	27600
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		tgcaaacacaaagggttaatacccgagtcacacgttaaggcggtgccagcagatttgaccttactatcgccaaagggtggttaactcgaaatcttgggtcccgacaacagcagatgcccgcgga			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		tgcaaacacaaagggttaatacccgagtcacacgttaaggcggtgccagcagatttgaccttactatcgccaaagggtggttaactcgaaatcttgggtcccgacaacagcagatgcccgcgga			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		tgcaaacacaaagggttaatacccgagtcacacgttaaggcggtgccagcagatttgaccttactatcgccaaagggtggttaactcgaaatcttgggtcccgacaacagcagatgcccgcgga			
1	IS18760_ARG3_node	100.0%	100.0%	27601	-----	7	-----	27720
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		tgtaacggccaagaggtacttaacgcgggaactcagagaacatgcgaacttaagtcgacgaatctcctaagaactcgtataaaaaaggaaaaagtagacgaagtcgtcgaaaaaagtagatgc			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		tgtaacggccaagaggtacttaacgcgggaactcagagaacatgcgaacttaagtcgacgaatctcctaagaactcgtataaaaaaggaaaaagtagacgaagtcgtcgaaaaaagtagatgc			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		tgtaacggccaagaggtacttaacgcgggaactcagagaacatgcgaacttaagtcgacgaatctcctaagaactcgtataaaaaaggaaaaagtagacgaagtcgtcgaaaaaagtagatgc			
1	IS18760_ARG3_node	100.0%	100.0%	27721	-----	8	-----	27840
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		tggaatatagtagtaaaacttgtgtttgattgattgatatgtctcgtttacaaggcccttaggtttatatattataccctgctcaagagctacaaatcacaacgactagaaactcgaattc			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		tggaatatagtagtaaaacttgtgtttgattgattgatatgtctcgtttacaaggcccttaggtttatatattataccctgctcaagagctacaaatcacaacgactagaaactcgaattc			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		tagaatatagtagtaaaacttgtgtttgattgattgatatgtctcgtttacaaggcccttaggtttatatattataccctgctcaagagctacaaatcacaacgactagaaactcgaattc			
1	IS18760_ARG3_node	100.0%	100.0%	27841	-----	9	-----	27960
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		caaatatcacagaaacoggtatacaaaaacgatttaataactaagaaaaacataaaactatccccccgtgccaaacttgaaacacctcccaaaacogtatggcagcctccaggctctccccc			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		caaatatcacagaaacoggtatacaaaaacgatttaataactaagaaaaacataaaactatccccccgtgccaaacttgaaacacctcccaaaacogtatggcagcctccaggctctccccc			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		caaatatcacagaaacoggtatacaaaaacgatttaataactaagaaaaacataaaactatccccccgtgccaaacttgaaacacctcccaaaacogtatggcagcctccaggctctccccc			
1	IS18760_ARG3_node	100.0%	100.0%	27961	-----	0	-----	28080
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		catatcatcgccagactctcttatcatagccaatcggtacagacacatcatcatcatggggttaatacagttcgtatccctctctccatcgccgaacacatctcatcgccaaactcgttctgtat			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		catatcatcgccagactctcttatcatagccaatcggtacagacacatcatcatcatggggttaatacagttcgtatccctctctccatcgccgaacacatctcatcgccaaactcgttctgtat			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		catatcatcgccagactctcttatcatagccaatcggtacagacacatcatcatcatggggttaatacagttcgtatccctctctccatcgccgaacacatctcatcgccaaactcgttctgtat			
1	IS18760_ARG3_node	100.0%	100.0%	28081	-----	1	-----	28200
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		gattaaacacccgctgttattatcttgcgatctatttttcaagaaacatggacacgtgtccaaaaacggcggtcaacaCATTTCTAATGCCATTGGCAGGTGAAGTTTTCCAAGTAACCTCT			
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		gattaaacacccgctgttattatcttgcgatctatttttcaagaaacatggacacgtgtccaaaaacggcggtcaacaCATTTCTAATGCCATTGGCAGGTGAAGTTTTCCAAGTAACCTCT			
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		gattaaacacccgctgttattatcttgcgatctatttttcaagaaacatggacacgtgtccaaaaacggcggtcaacaCATTTCTAATGCCATTGGCAGGTGAAGTTTTCCAAGTAACCTCT			

1	IS18760_ARG3_node	100.0%	100.0%	28201	TC TAGCCATAC TTTT CGACGCA CAAAGCCAT TGGACCCGAACTT GAGGAGCCCT	3	GGATATGGGTGAC TGTCTGTTT CTGACACAG GCTCCTGGTT	28320
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		TC TAGCCATAC TTTT CGACGCA CAAAGCCAT TGGACCCGAACTT GAGGAGCCCTT AAGATGTAAGCCCC		GGATACGGGTGAC TGTCTGTTT CTGACACAG GCTCCTGGTT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		TC TAGCCATAC TTTT CGACGCA CAAAGCCAT TGGACCCGAACTT GAGGAGCCCTT AAGATGTAAGCCCC		GGATACGGGTGAC TGTCTGTTT CTGACACAG GCTCCTGGTT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		TC TAGCCATAC TTTT CGACGCA CAAAGCCAT TGGACCCGAACTT GAGGAGCCCTT AAGATGTAAGCCCC		GGATACGGGTGAC TGTCTGTTT CTGACACAG GCTCCTGGTT	
1	IS18760_ARG3_node	100.0%	100.0%	28321	CCCTTGGCAGCAGAAAAC TTCC TAGC CCGAAGGGGAGAGCT TCTACTTGGCGAT TTGAACAGC GGTGACCGGGT	4	CGAGAAGCT CAAACCTTACTGAT TTGAGAAGTGGCACAAT	28440
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		CCCTTGGCAGCAGAAAAC TTCC TAGC CCGAAGGGGAGAGCT TCTACTTGGCGAT TTGAACAGC GGTGACCGGGT		CGAGAAGCT CAAACCTTACTGAT TTGAGAAGTGGCACAAT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		CCCTTGGCAGCAGAAAAC TTCC TAGC CCGAAGGGGAGAGCT TCTACTTGGCGAT TTGAACAGC GGTGACCGGGT		CGAGAAGCT CAAACCTTACTGAT TTGAGAAGTGGCACAAT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		CCCTTGGCAGCAGAAAAC TTCC TAGC CCGAAGGGGAGAGCT TCTACTTGGCGAT TTGAACAGC GGTGACCGGGT		CGAGAAGCT CAAACCTTACTGAT TTGAGAAGTGGCACAAT	
1	IS18760_ARG3_node	100.0%	100.0%	28441	GCACACAA CCGGGCAGAGGGG CCAACATCT GAAGAAGAGGACAGTGGAAACTCTGGACCTGGCAATGATAGGGGCC	5	TACTGGAGCCTATTGCGCCGAGGATGATCTCTAAACCTSAGAAAT	28560
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		GCACACAA CCGGGCAGAGGGG CCAACATCT GAAGAAGAGGACAGTGGAAACTCTGGACCTGGCAATGATAGGGGCC		TACTGGAGCCTATTGCGCCGAGGATGATCTCTAAACCTSAGAAAT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		GCACACAA CCGGGCAGAGGGG CCAACATCT GAAGAAGAGGACAGTGGAAACTCTGGACCTGGCAATGATAGGGGCC		TACTGGAGCCTATTGCGCCGAGGATGATCTCTAAACCTSAGAAAT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		GCACACAA CCGGGCAGAGGGG CCAACATCT GAAGAAGAGGACAGTGGAAACTCTGGACCTGGCAATGATAGGGGCC		TACTGGAGCCTATTGCGCCGAGGATGATCTCTAAACCTSAGAAAT	
1	IS18760_ARG3_node	100.0%	100.0%	28561	GAGCCCGAATCTCTCTA AAGAAAGCTGGCAGCAAAAGAGGCTCTCTTTATTTT CAGTTTAAC TTTTTTGGCTTT	6	GAGT TAAATTTTCTCC TACATTTTACACTCTGCAAT	28680
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		GAGCCCGAATCTCTCTA AAGAAAGCTGGCAGCAAAAGAGGCTCTCTTTATTTT CAGTTTAAC TTTTTTGGCTTT		GAGT TAAATTTTCTCC TACATTTTACACTCTGCAAT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		GAGCCCGAATCTCTCTA AAGAAAGCTGGCAGCAAAAGAGGCTCTCTTTATTTT CAGTTTAAC TTTTTTGGCTTT		GAGT TAAATTTTCTCC TACATTTTACACTCTGCAAT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		GAGCCCGAATCTCTCTA AAGAAAGCTGGCAGCAAAAGAGGCTCTCTTTATTTT CAGTTTAAC TTTTTTGGCTTT		GAGT TAAATTTTCTCC TACATTTTACACTCTGCAAT	
1	IS18760_ARG3_node	100.0%	100.0%	28681	ACCGGTCA CCAATTAAGACCTTAGGATTCGCTTTCTTAAAAAAATTAGGGTAATACACATGTTTGA CTAATTTT	7	TTTGGATTAAAAATCTAATCTTTTATTTCTTTTGGT	28800
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		ACCGGTCA CCAATTAAGACCTTAGGATTCGCTTTCTTAAAAAAATTAGGGTAATACACATGTTTGA CTAATTTT		TTTGGATTAAAAATCTAATCTTTTATTTCTTTTGGT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		ACCGGTCA CCAATTAAGACCTTAGGATTCGCTTTCTTAAAAAAATTAGGGTAATACACATGTTTGA CTAATTTT		TTTGGATTAAAAATCTAATCTTTTATTTCTTTTGGT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		ACCGGTCA CCAATTAAGACCTTAGGATTCGCTTTCTTAAAAAAATTAGGGTAATACACATGTTTGA CTAATTTT		TTTGGATTAAAAATCTAATCTTTTATTTCTTTTGGT	
1	IS18760_ARG3_node	100.0%	100.0%	28801	AATGTGTCCTAACCTTGAC TACTAAGCTTAAAGATTCCTCGCCAAATTCAGACAAC TGTACATTTACCTA	9	TTTTTTTAACTATCTAATGCTTACATGATCTGCCCTAAGAT	28920
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		AATGTGTCCTAACCTTGAC TACTAAGCTTAAAGATTCCTCGCCAAATTCAGACAAC TGTACATTTACCTA		TTTTTTTAACTATCTAATGCTTACATGATCTGCCCTAAGAT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		AATGTGTCCTAACCTTGAC TACTAAGCTTAAAGATTCCTCGCCAAATTCAGACAAC TGTACATTTACCTA		TTTTTTTAACTATCTAATGCTTACATGATCTGCCCTAAGAT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		AATGTGTCCTAACCTTGAC TACTAAGCTTAAAGATTCCTCGCCAAATTCAGACAAC TGTACATTTACCTA		TTTTTTTAACTATCTAATGCTTACATGATCTGCCCTAAGAT	
1	IS18760_ARG3_node	100.0%	100.0%	28921	CGACTTAATAGTGAAATTTTGAAAAATTTTGGATTTCC TAAACCTCCCAATGGTATC CAAACCCCAAAC	0	CCCAAACTCAACACATGTTTCGATTGAAATCAGTAAGGCCCTTTT	29040
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		CGACTTAATAGTGAAATTTTGAAAAATTTTGGATTTCC TAAACCTCCCAATGGTATC CAAACCCCAAAC		CCCAAACTCAACACATGTTTCGATTGAAATCAGTAAGGCCCTTTT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		CGACTTAATAGTGAAATTTTGAAAAATTTTGGATTTCC TAAACCTCCCAATGGTATC CAAACCCCAAAC		CCCAAACTCAACACATGTTTCGATTGAAATCAGTAAGGCCCTTTT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		CGACTTAATAGTGAAATTTTGAAAAATTTTGGATTTCC TAAACCTCCCAATGGTATC CAAACCCCAAAC		CCCAAACTCAACACATGTTTCGATTGAAATCAGTAAGGCCCTTTT	
1	IS18760_ARG3_node	100.0%	100.0%	29041	AGTTCTCAAATTTTTTCAAGATTTTTCTGCACATCAAATTTTTGAACGATTCCTGAACTTTTAAATTAAGAT	1	TAAATTAAGATTAATAAATTAAC TAATTAACCGGTTTCTTCCTAATTTGGGAGACBAATCT	29160
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		AGTTCTCAAATTTTTTCAAGATTTTTCTGCACATCAAATTTTTGAACGATTCCTGAACTTTTAAATTAAGAT		TAAATTAAGATTAATAAATTAAC TAATTAACCGGTTTCTTCCTAATTTGGGAGACBAATCT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		AGTTCTCAAATTTTTTCAAGATTTTTCTGCACATCAAATTTTTGAACGATTCCTGAACTTTTAAATTAAGAT		TAAATTAAGATTAATAAATTAAC TAATTAACCGGTTTCTTCCTAATTTGGGAGACBAATCT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		AGTTCTCAAATTTTTTCAAGATTTTTCTGCACATCAAATTTTTGAACGATTCCTGAACTTTTAAATTAAGAT		TAAATTAAGATTAATAAATTAAC TAATTAACCGGTTTCTTCCTAATTTGGGAGACBAATCT	
1	IS18760_ARG3_node	100.0%	100.0%	29161	TTTGAGCTTAGTTAGTTCTTGGTGGACAAATTAATAGCAAAATAAAGCAAAATGCTACAGTAGACAAAC	2	AAAAATTTTACGAAC TGTCTCCCAAGATTAAACCTTAGGCTATCTCT	29280
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		TTTGAGCTTAGTTAGTTCTTGGTGGACAAATTAATAGCAAAATAAAGCAAAATGCTACAGTAGACAAAC		AAAAATTTTACGAAC TGTCTCCCAAGATTAAACCTTAGGCTATCTCT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		TTTGAGCTTAGTTAGTTCTTGGTGGACAAATTAATAGCAAAATAAAGCAAAATGCTACAGTAGACAAAC		AAAAATTTTACGAAC TGTCTCCCAAGATTAAACCTTAGGCTATCTCT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		TTTGAGCTTAGTTAGTTCTTGGTGGACAAATTAATAGCAAAATAAAGCAAAATGCTACAGTAGACAAAC		AAAAATTTTACGAAC TGTCTCCCAAGATTAAACCTTAGGCTATCTCT	
1	IS18760_ARG3_node	100.0%	100.0%	29281	TATGGAGTACTTACTTCTCTCTAGATTTTCTTAGAATTCGCTTTATGACATTTTAGGCAAAATAGTACT	3	TTTATGATAGTACTTTTCTCGCTGGCTCAAAAAGCATGACTGAAA	29400
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		TATGGAGTACTTACTTCTCTCTAGATTTTCTTAGAATTCGCTTTATGACATTTTAGGCAAAATAGTACT		TTTATGATAGTACTTTTCTCGCTGGCTCAAAAAGCATGACTGAAA	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		TATGGAGTACTTACTTCTCTCTAGATTTTCTTAGAATTCGCTTTATGACATTTTAGGCAAAATAGTACT		TTTATGATAGTACTTTTCTCGCTGGCTCAAAAAGCATGACTGAAA	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		TATGGAGTACTTACTTCTCTCTAGATTTTCTTAGAATTCGCTTTATGACATTTTAGGCAAAATAGTACT		TTTATGATAGTACTTTTCTCGCTGGCTCAAAAAGCATGACTGAAA	
1	IS18760_ARG3_node	100.0%	100.0%	29401	ATACGTTGCTGTGTTTACGTAAGAGAAAAATCTCTTGACCTGACAAAAAAATACAACTTATAAGACAAGCAAT	5	GGGCAAGCTCAAATTTTCTTCTTGAATTTTAAAAATGGCTCT	29520
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		ATACGTTGCTGTGTTTACGTAAGAGAAAAATCTCTTGACCTGACAAAAAAATACAACTTATAAGACAAGCAAT		GGGCAAGCTCAAATTTTCTTCTTGAATTTTAAAAATGGCTCT	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		ATACGTTGCTGTGTTTACGTAAGAGAAAAATCTCTTGACCTGACAAAAAAATACAACTTATAAGACAAGCAAT		GGGCAAGCTCAAATTTTCTTCTTGAATTTTAAAAATGGCTCT	
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%		ATACGTTGCTGTGTTTACGTAAGAGAAAAATCTCTTGACCTGACAAAAAAATACAACTTATAAGACAAGCAAT		GGGCAAGCTCAAATTTTCTTCTTGAATTTTAAAAATGGCTCT	
1	IS18760_ARG3_node	100.0%	100.0%	29521	TTTCAGTCCC TAAATTTTACTCTCGGC CAGTTTCCATCC TAGAATCTTAGAGTGATTGTTTACTTTT	6	CAGTACTCAACTTCCTTTTGGCTTGAC TAAACGAGACCC TAGCCCACTCAAAA	29640
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%		TTTCAGTCCC TAAATTTTACTCTCGGC CAGTTTCCATCC TAGAATCTTAGAGTGATTGTTTACTTTT		CAGTACTCAACTTCCTTTTGGCTTGAC TAAACGAGACCC TAGCCCACTCAAAA	
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%		TTTCAGTCCC TAAATTTTACTCTCGGC CAGTTTCCATCC TAGAATCTTAGAGTGATTGTTTACTTTT		CAGTACTCAACTTCCTTTTGGCTTGAC TAAACGAGACCC TAGCCCACTCAAAA	

3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	CTGCTGCACACCTCATCTGAGCTCCCTCCCTCCACGCGTGCCTCCCTAACCAGCAGGACACGGACACGGACATTCGGTTCCACACGACCTCCGGCG
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	CTGCTGCACACCTCATCTGAGCTCCCTCCCTCCACGCGTGCCTCCCTAACCAGCAGGACACGGACACGGACATTCGGTTCCACACGACCTCCGGCG
				cov pid 31081
1	IS18760_ARG3_node	100.0%	100.0%	CCGGCG ACGGATGACACGACCAACGACGGGCCCCTCCCTGTCGCCCTCCACCCCGACCTCCCTAGCCTGGACGAGG
2	BTX623_ARG3_4:55090987..55123019	99.4%	58.8%	CCGGCG ACGGATGACACGACCAACGACGGGCCCCTCCCTGTCGCCCTCCACCCCGACCTCCCTAGCCTGGACGAGG
3	BTX642_ARG3_4:49743985..49775977	99.4%	58.8%	CCGGCG ACGGATGACACGACCAACGACGGGCCCCTCCCTGTCGCCCTCCACCCCGACCTCCCTAGCCTGGACGAGG
4	RTX430_ARG3_4:50144987..50177189	99.7%	58.4%	CCGGCG ACGGATGACACGACCAACGACGGGCCCCTCCCTGTCGCCCTCCACCCCGACCTCCCTAGCCTGGACGAGG