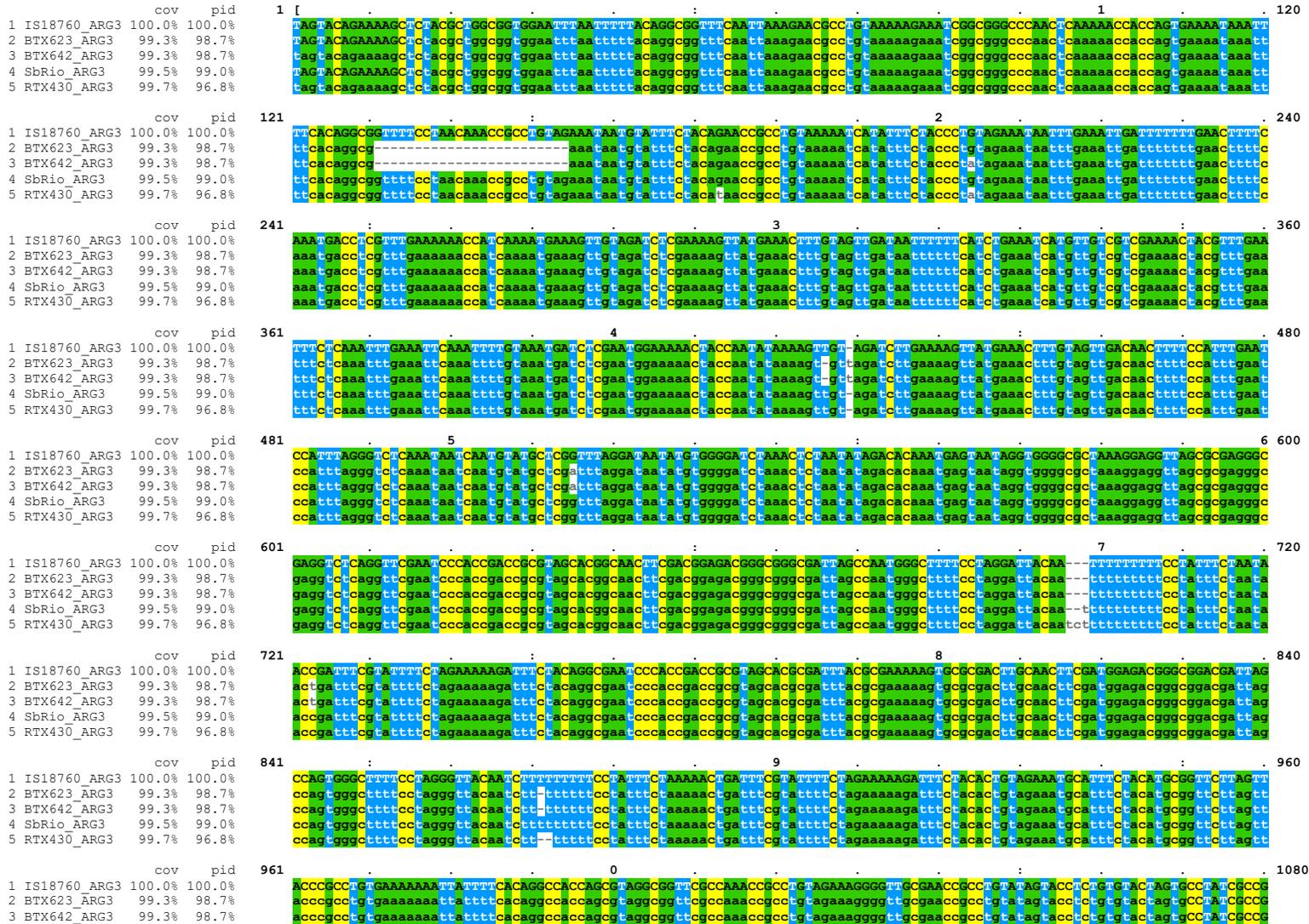


Supplemental_file_4 – corresponds to page 80-81.

Alignment of the genomic sequences of the 15.6 Kb wild-type ARG3 locus with the four reference genomes. The susceptible parent TAM428 carries the BTx623 genomic sequence throughout ARG3 locus.



4	SbRi0_ARG3	99.5%	99.0%	ccccccctgtaaaaaaataatcttcacaggccaccagcgtaggcggttcgcaaaaccctcgtagaaggggttgcaaccgctctatagtcctcgtctctagtgccctcgcg	
5	RTX430_ARG3	99.7%	96.8%	ccccccctgtaaaaaaataatcttcacaggccaccagcgtaggcggttcgcaaaaccctcgtagaaggggttgcaaccgctctatagtcctcgtctctagtgccctcgcg	
		cov	pid	1081	
1	IS18760_ARG3	100.0%	100.0%	CAATAGTAGTACAGATCGTGGGATGTCCTCCCTGATCCGATGACCCCTGCAATTTTTTTCCCTGATAGTGGTTGACATGACAAAAAACAAGTGGCTTACATTTTAAATTGC	2 1200
2	BTX623_ARG3	99.3%	98.7%	CAATAGTAGTACAGATCGTGGGATGTCCTCCCTGATCCGATGACCCCTGCAATTTTTTTCCCTGATAGTGGTTGACATGACAAAAAACAAGTGGCTTACATTTTAAATTGC	
3	BTX642_ARG3	99.3%	98.7%	CAATAGTAGTACAGATCGTGGGATGTCCTCCCTGATCCGATGACCCCTGCAATTTTTTTCCCTGATAGTGGTTGACATGACAAAAAACAAGTGGCTTACATTTTAAATTGC	
4	SbRi0_ARG3	99.5%	99.0%	CAATAGTAGTACAGATCGTGGGATGTCCTCCCTGATCCGATGACCCCTGCAATTTTTTTCCCTGATAGTGGTTGACATGACAAAAAACAAGTGGCTTACATTTTAAATTGC	
5	RTX430_ARG3	99.7%	96.8%	CAATAGTAGTACAGATCGTGGGATGTCCTCCCTGATCCGATGACCCCTGCAATTTTTTTCCCTGATAGTGGTTGACATGACAAAAAACAAGTGGCTTACATTTTAAATTGC	
		cov	pid	1201	
1	IS18760_ARG3	100.0%	100.0%	GTAGTTTTGTCCCGACGCACTTTGAGCCACCCACAGTTCAGTTTAGGCACCTCCGATTTTCAGTCTTTAAGGAATTTTAGGCTTCCTACACTTAAATTTTTTTTACCTCCCGT	3 1320
2	BTX623_ARG3	99.3%	98.7%	GTAGTTTTGTCCCGACGCACTTTGAGCCACCCACAGTTCAGTTTAGGCACCTCCGATTTTCAGTCTTTAAGGAATTTTAGGCTTCCTACACTTAAATTTTTTTTACCTCCCGT	
3	BTX642_ARG3	99.3%	98.7%	GTAGTTTTGTCCCGACGCACTTTGAGCCACCCACAGTTCAGTTTAGGCACCTCCGATTTTCAGTCTTTAAGGAATTTTAGGCTTCCTACACTTAAATTTTTTTTACCTCCCGT	
4	SbRi0_ARG3	99.5%	99.0%	GTAGTTTTGTCCCGACGCACTTTGAGCCACCCACAGTTCAGTTTAGGCACCTCCGATTTTCAGTCTTTAAGGAATTTTAGGCTTCCTACACTTAAATTTTTTTTACCTCCCGT	
5	RTX430_ARG3	99.7%	96.8%	GTAGTTTTGTCCCGACGCACTTTGAGCCACCCACAGTTCAGTTTAGGCACCTCCGATTTTCAGTCTTTAAGGAATTTTAGGCTTCCTACACTTAAATTTTTTTTACCTCCCGT	
		cov	pid	1321	
1	IS18760_ARG3	100.0%	100.0%	CGCATTCAGTTCACAAATCACTGGTCTGAGCCGTGATCGGAATTTAGTAGCCAGATCACTTCCTGCAACCACTTCCATGATGGCCATATCTTTGCGCCTTTCTACAAACTT	4 1440
2	BTX623_ARG3	99.3%	98.7%	CGCATTCAGTTCACAAATCACTGGTCTGAGCCGTGATCGGAATTTAGTAGCCAGATCACTTCCTGCAACCACTTCCATGATGGCCATATCTTTGCGCCTTTCTACAAACTT	
3	BTX642_ARG3	99.3%	98.7%	CGCATTCAGTTCACAAATCACTGGTCTGAGCCGTGATCGGAATTTAGTAGCCAGATCACTTCCTGCAACCACTTCCATGATGGCCATATCTTTGCGCCTTTCTACAAACTT	
4	SbRi0_ARG3	99.5%	99.0%	CGCATTCAGTTCACAAATCACTGGTCTGAGCCGTGATCGGAATTTAGTAGCCAGATCACTTCCTGCAACCACTTCCATGATGGCCATATCTTTGCGCCTTTCTACAAACTT	
5	RTX430_ARG3	99.7%	96.8%	CGCATTCAGTTCACAAATCACTGGTCTGAGCCGTGATCGGAATTTAGTAGCCAGATCACTTCCTGCAACCACTTCCATGATGGCCATATCTTTGCGCCTTTCTACAAACTT	
		cov	pid	1441	
1	IS18760_ARG3	100.0%	100.0%	CGAATCTTTTCAGAGTAGATCTGCCAAATACACAGGACCTTCAGCAGCGACCCATTTCCCTGAGGTTTTCTAACGCTACAAAGCTATGCTCTTCGACAAATTCCTACTTTGG	5 1560
2	BTX623_ARG3	99.3%	98.7%	CGAATCTTTTCAGAGTAGATCTGCCAAATACACAGGACCTTCAGCAGCGACCCATTTCCCTGAGGTTTTCTAACGCTACAAAGCTATGCTCTTCGACAAATTCCTACTTTGG	
3	BTX642_ARG3	99.3%	98.7%	CGAATCTTTTCAGAGTAGATCTGCCAAATACACAGGACCTTCAGCAGCGACCCATTTCCCTGAGGTTTTCTAACGCTACAAAGCTATGCTCTTCGACAAATTCCTACTTTGG	
4	SbRi0_ARG3	99.5%	99.0%	CGAATCTTTTCAGAGTAGATCTGCCAAATACACAGGACCTTCAGCAGCGACCCATTTCCCTGAGGTTTTCTAACGCTACAAAGCTATGCTCTTCGACAAATTCCTACTTTGG	
5	RTX430_ARG3	99.7%	96.8%	CGAATCTTTTCAGAGTAGATCTGCCAAATACACAGGACCTTCAGCAGCGACCCATTTCCCTGAGGTTTTCTAACGCTACAAAGCTATGCTCTTCGACAAATTCCTACTTTGG	
		cov	pid	1561	
1	IS18760_ARG3	100.0%	100.0%	ATAGTATTCATCTCCATTAAGGTAACCTGGGCCCATGACATCCCTCACCTCGACATAGGTAATAGGTTCAACCTAGAAAAGCCCCATTTGATGAAATCTACTCTTTGG	6 1680
2	BTX623_ARG3	99.3%	98.7%	ATAGTATTCATCTCCATTAAGGTAACCTGGGCCCATGACATCCCTCACCTCGACATAGGTAATAGGTTCAACCTAGAAAAGCCCCATTTGATGAAATCTACTCTTTGG	
3	BTX642_ARG3	99.3%	98.7%	ATAGTATTCATCTCCATTAAGGTAACCTGGGCCCATGACATCCCTCACCTCGACATAGGTAATAGGTTCAACCTAGAAAAGCCCCATTTGATGAAATCTACTCTTTGG	
4	SbRi0_ARG3	99.5%	99.0%	ATAGTATTCATCTCCATTAAGGTAACCTGGGCCCATGACATCCCTCACCTCGACATAGGTAATAGGTTCAACCTAGAAAAGCCCCATTTGATGAAATCTACTCTTTGG	
5	RTX430_ARG3	99.7%	96.8%	ATAGTATTCATCTCCATTAAGGTAACCTGGGCCCATGACATCCCTCACCTCGACATAGGTAATAGGTTCAACCTAGAAAAGCCCCATTTGATGAAATCTACTCTTTGG	
		cov	pid	1681	
1	IS18760_ARG3	100.0%	100.0%	AAGTATCCAAATGACCGTGTATTTAGGACCCCCACATCAAGCAGAAACACACAGAAACAGGAGGGACCTCGCCCTGGCACCAACAAACTAGATCAGTGCCCTACCCGCTTC	7 1800
2	BTX623_ARG3	99.3%	98.7%	AAGTATCCAAATGACCGTGTATTTAGGACCCCCACATCAAGCAGAAACACACAGAAACAGGAGGGACCTCGCCCTGGCACCAACAAACTAGATCAGTGCCCTACCCGCTTC	
3	BTX642_ARG3	99.3%	98.7%	AAGTATCCAAATGACCGTGTATTTAGGACCCCCACATCAAGCAGAAACACACAGAAACAGGAGGGACCTCGCCCTGGCACCAACAAACTAGATCAGTGCCCTACCCGCTTC	
4	SbRi0_ARG3	99.5%	99.0%	AAGTATCCAAATGACCGTGTATTTAGGACCCCCACATCAAGCAGAAACACACAGAAACAGGAGGGACCTCGCCCTGGCACCAACAAACTAGATCAGTGCCCTACCCGCTTC	
5	RTX430_ARG3	99.7%	96.8%	AAGTATCCAAATGACCGTGTATTTAGGACCCCCACATCAAGCAGAAACACACAGAAACAGGAGGGACCTCGCCCTGGCACCAACAAACTAGATCAGTGCCCTACCCGCTTC	
		cov	pid	1801	
1	IS18760_ARG3	100.0%	100.0%	CGTGGCCATATGGCGGCCCGTGGCCCTCAAAAAATGGCCACACTTTTTGCGCTGATCCACCGCCCTTATCTGCTTCCGTTTTCCGCCACCTGGTGACGATCTCAGGTGGAGGC	8 1920
2	BTX623_ARG3	99.3%	98.7%	CGTGGCCATATGGCGGCCCGTGGCCCTCAAAAAATGGCCACACTTTTTGCGCTGATCCACCGCCCTTATCTGCTTCCGTTTTCCGCCACCTGGTGACGATCTCAGGTGGAGGC	
3	BTX642_ARG3	99.3%	98.7%	CGTGGCCATATGGCGGCCCGTGGCCCTCAAAAAATGGCCACACTTTTTGCGCTGATCCACCGCCCTTATCTGCTTCCGTTTTCCGCCACCTGGTGACGATCTCAGGTGGAGGC	
4	SbRi0_ARG3	99.5%	99.0%	CGTGGCCATATGGCGGCCCGTGGCCCTCAAAAAATGGCCACACTTTTTGCGCTGATCCACCGCCCTTATCTGCTTCCGTTTTCCGCCACCTGGTGACGATCTCAGGTGGAGGC	
5	RTX430_ARG3	99.7%	96.8%	CGTGGCCATATGGCGGCCCGTGGCCCTCAAAAAATGGCCACACTTTTTGCGCTGATCCACCGCCCTTATCTGCTTCCGTTTTCCGCCACCTGGTGACGATCTCAGGTGGAGGC	
		cov	pid	1921	
1	IS18760_ARG3	100.0%	100.0%	AACCTGATCTTCTGCTGGGCTCAGCATGGGGTTCTGACCGGATCTGATATAGTGGCCCTACAGGCCAGTTCCAGTGGCGGGCACCTACCTTTGGTGGCTCAACGATGGTCAAA	9 2040
2	BTX623_ARG3	99.3%	98.7%	AACCTGATCTTCTGCTGGGCTCAGCATGGGGTTCTGACCGGATCTGATATAGTGGCCCTACAGGCCAGTTCCAGTGGCGGGCACCTACCTTTGGTGGCTCAACGATGGTCAAA	
3	BTX642_ARG3	99.3%	98.7%	AACCTGATCTTCTGCTGGGCTCAGCATGGGGTTCTGACCGGATCTGATATAGTGGCCCTACAGGCCAGTTCCAGTGGCGGGCACCTACCTTTGGTGGCTCAACGATGGTCAAA	
4	SbRi0_ARG3	99.5%	99.0%	AACCTGATCTTCTGCTGGGCTCAGCATGGGGTTCTGACCGGATCTGATATAGTGGCCCTACAGGCCAGTTCCAGTGGCGGGCACCTACCTTTGGTGGCTCAACGATGGTCAAA	
5	RTX430_ARG3	99.7%	96.8%	AACCTGATCTTCTGCTGGGCTCAGCATGGGGTTCTGACCGGATCTGATATAGTGGCCCTACAGGCCAGTTCCAGTGGCGGGCACCTACCTTTGGTGGCTCAACGATGGTCAAA	
		cov	pid	2041	
1	IS18760_ARG3	100.0%	100.0%	CAACATAGCAATGTGGTTCCTGGACGATGCTGGTGGGGTTACCCCAACAGTCAGTCCCAACCTCAGTGGAGCCCGTTGAGGCCTTTACTCATCTTTTGTCCGGATCTGAGTGA	1 2160
2	BTX623_ARG3	99.3%	98.7%	CAACATAGCAATGTGGTTCCTGGACGATGCTGGTGGGGTTACCCCAACAGTCAGTCCCAACCTCAGTGGAGCCCGTTGAGGCCTTTACTCATCTTTTGTCCGGATCTGAGTGA	
3	BTX642_ARG3	99.3%	98.7%	CAACATAGCAATGTGGTTCCTGGACGATGCTGGTGGGGTTACCCCAACAGTCAGTCCCAACCTCAGTGGAGCCCGTTGAGGCCTTTACTCATCTTTTGTCCGGATCTGAGTGA	
4	SbRi0_ARG3	99.5%	99.0%	CAACATAGCAATGTGGTTCCTGGACGATGCTGGTGGGGTTACCCCAACAGTCAGTCCCAACCTCAGTGGAGCCCGTTGAGGCCTTTACTCATCTTTTGTCCGGATCTGAGTGA	
5	RTX430_ARG3	99.7%	96.8%	CAACATAGCAATGTGGTTCCTGGACGATGCTGGTGGGGTTACCCCAACAGTCAGTCCCAACCTCAGTGGAGCCCGTTGAGGCCTTTACTCATCTTTTGTCCGGATCTGAGTGA	
		cov	pid	2161	
1	IS18760_ARG3	100.0%	100.0%	AAGCATAGTACGCTTTAACCAGCCGTCGACGCGATCTCTCAGAGCTTTCTCCCTGGAAGCCAGCTTAGGAGGGTCCCTCAAGGTGATGGAGCTGATCTCCCATCTTCT	2 2280
2	BTX623_ARG3	99.3%	98.7%	AAGCATAGTACGCTTTAACCAGCCGTCGACGCGATCTCTCAGAGCTTTCTCCCTGGAAGCCAGCTTAGGAGGGTCCCTCAAGGTGATGGAGCTGATCTCCCATCTTCT	
3	BTX642_ARG3	99.3%	98.7%	AAGCATAGTACGCTTTAACCAGCCGTCGACGCGATCTCTCAGAGCTTTCTCCCTGGAAGCCAGCTTAGGAGGGTCCCTCAAGGTGATGGAGCTGATCTCCCATCTTCT	
4	SbRi0_ARG3	99.5%	99.0%	AAGCATAGTACGCTTTAACCAGCCGTCGACGCGATCTCTCAGAGCTTTCTCCCTGGAAGCCAGCTTAGGAGGGTCCCTCAAGGTGATGGAGCTGATCTCCCATCTTCT	

Sample	Cov	Pid	Sequence
5 RTX430_ARG3	99.7%	96.8%	AAGCA TAGTAC GCTTTTCCSGTCCGTCAGCCSACGGTCTCCTCAGAGCTTTTCTCCCTTGAAGCCTAGCGTAGGAGGGCCCTCATAGGTCATCGAGGTCGATCCCCATTCCT
1 IS18760_ARG3	100.0%	100.0%	CAACAGTGGTTCTCTCCGCCCTGGGGAATTCTGTTGCCAGGTTCCAGTATATGGTCTCCCAATCCGAGCTTTCTCTTTTATAGTTATAGTGCCTTTCTGGAGGAGGCTGATGCTT
2 BTX623_ARG3	99.3%	98.7%	CAACAGTGGTTCTCTCCGCCCTGGGGAATTCTGTTGCCAGGTTCCAGTATATGGTCTCCCAATCCGAGCTTTCTCTTTTATAGTTATAGTGCCTTTCTGGAGGAGGCTGATGCTT
3 BTX642_ARG3	99.3%	98.7%	CAACAGTGGTTCTCTCCGCCCTGGGGAATTCTGTTGCCAGGTTCCAGTATATGGTCTCCCAATCCGAGCTTTCTCTTTTATAGTTATAGTGCCTTTCTGGAGGAGGCTGATGCTT
4 Sbr10_ARG3	99.5%	99.0%	CAACAGTGGTTCTCTCCGCCCTGGGGAATTCTGTTGCCAGGTTCCAGTATATGGTCTCCCAATCCGAGCTTTCTCTTTTATAGTTATAGTGCCTTTCTGGAGGAGGCTGATGCTT
5 RTX430_ARG3	99.7%	96.8%	CAACAGTGGTTCTCTCCGCCCTGGGGAATTCTGTTGCCAGGTTCCAGTATATGGTCTCCCAATCCGAGCTTTCTCTTTTATAGTTATAGTGCCTTTCTGGAGGAGGCTGATGCTT
1 IS18760_ARG3	100.0%	100.0%	GGTTTACCAGCTGGTGGTCAGAGCTCAGTCAACATTTGGAGTTGTTCTTCAACTATCTGGATTGGTCCATCTCTAGGTTTGGCTTCAACCAATTTTATCTGAGATTCTCTTTTG
2 BTX623_ARG3	99.3%	98.7%	GGTTTACCAGCTGGTGGTCAGAGCTCAGTCAACATTTGGAGTTGTTCTTCAACTATCTGGATTGGTCCATCTCTAGGTTTGGCTTCAACCAATTTTATCTGAGATTCTCTTTTG
3 BTX642_ARG3	99.3%	98.7%	GGTTTACCAGCTGGTGGTCAGAGCTCAGTCAACATTTGGAGTTGTTCTTCAACTATCTGGATTGGTCCATCTCTAGGTTTGGCTTCAACCAATTTTATCTGAGATTCTCTTTTG
4 Sbr10_ARG3	99.5%	99.0%	GGTTTACCAGCTGGTGGTCAGAGCTCAGTCAACATTTGGAGTTGTTCTTCAACTATCTGGATTGGTCCATCTCTAGGTTTGGCTTCAACCAATTTTATCTGAGATTCTCTTTTG
5 RTX430_ARG3	99.7%	96.8%	GGTTTACCAGCTGGTGGTCAGAGCTCAGTCAACATTTGGAGTTGTTCTTCAACTATCTGGATTGGTCCATCTCTAGGTTTGGCTTCAACCAATTTTATCTGAGATTCTCTTTTG
1 IS18760_ARG3	100.0%	100.0%	GAGGAGATTCATGAAAAAGCAAGAAAATTTTACATGATGAGCACTTGAAGATTTATATTTCTTTTAGGTTTATCTTTTGGAGGAGCGAGGAGATCTAGCCNTTAGGTCGATCCCT
2 BTX623_ARG3	99.3%	98.7%	GAGGAGATTCATGAAAAAGCAAGAAAATTTTACATGATGAGCACTTGAAGATTTATATTTCTTTTAGGTTTATCTTTTGGAGGAGCGAGGAGATCTAGCCNTTAGGTCGATCCCT
3 BTX642_ARG3	99.3%	98.7%	GAGGAGATTCATGAAAAAGCAAGAAAATTTTACATGATGAGCACTTGAAGATTTATATTTCTTTTAGGTTTATCTTTTGGAGGAGCGAGGAGATCTAGCCNTTAGGTCGATCCCT
4 Sbr10_ARG3	99.5%	99.0%	GAGGAGATTCATGAAAAAGCAAGAAAATTTTACATGATGAGCACTTGAAGATTTATATTTCTTTTAGGTTTATCTTTTGGAGGAGCGAGGAGATCTAGCCNTTAGGTCGATCCCT
5 RTX430_ARG3	99.7%	96.8%	GAGGAGATTCATGAAAAAGCAAGAAAATTTTACATGATGAGCACTTGAAGATTTATATTTCTTTTAGGTTTATCTTTTGGAGGAGCGAGGAGATCTAGCCNTTAGGTCGATCCCT
1 IS18760_ARG3	100.0%	100.0%	ATCTCTTAGTGGTGGTGGCTTTTATAGTAACTTTTGGTTGATGCAATCCCGACAGGGGATGATGAAGCCGGAAATAAATCTTCCATCTCTCAAAAAATAACTTCTACAAATAA
2 BTX623_ARG3	99.3%	98.7%	ATCTCTTAGTGGTGGTGGCTTTTATAGTAACTTTTGGTTGATGCAATCCCGACAGGGGATGATGAAGCCGGAAATAAATCTTCCATCTCTCAAAAAATAACTTCTACAAATAA
3 BTX642_ARG3	99.3%	98.7%	ATCTCTTAGTGGTGGTGGCTTTTATAGTAACTTTTGGTTGATGCAATCCCGACAGGGGATGATGAAGCCGGAAATAAATCTTCCATCTCTCAAAAAATAACTTCTACAAATAA
4 Sbr10_ARG3	99.5%	99.0%	ATCTCTTAGTGGTGGTGGCTTTTATAGTAACTTTTGGTTGATGCAATCCCGACAGGGGATGATGAAGCCGGAAATAAATCTTCCATCTCTCAAAAAATAACTTCTACAAATAA
5 RTX430_ARG3	99.7%	96.8%	ATCTCTTAGTGGTGGTGGCTTTTATAGTAACTTTTGGTTGATGCAATCCCGACAGGGGATGATGAAGCCGGAAATAAATCTTCCATCTCTCAAAAAATAACTTCTACAAATAA
1 IS18760_ARG3	100.0%	100.0%	AGATAAAAATTAATAAATAAAGTAAACCGTGTATTCGACAAATTCCTTTTTCTATTTTTCTGAAATTTTGAAGAAATGACCCCACTGTTTCCCGCTAATGAAACCA
2 BTX623_ARG3	99.3%	98.7%	AGATAAAAATTAATAAATAAAGTAAACCGTGTATTCGACAAATTCCTTTTTCTATTTTTCTGAAATTTTGAAGAAATGACCCCACTGTTTCCCGCTAATGAAACCA
3 BTX642_ARG3	99.3%	98.7%	AGATAAAAATTAATAAATAAAGTAAACCGTGTATTCGACAAATTCCTTTTTCTATTTTTCTGAAATTTTGAAGAAATGACCCCACTGTTTCCCGCTAATGAAACCA
4 Sbr10_ARG3	99.5%	99.0%	AGATAAAAATTAATAAATAAAGTAAACCGTGTATTCGACAAATTCCTTTTTCTATTTTTCTGAAATTTTGAAGAAATGACCCCACTGTTTCCCGCTAATGAAACCA
5 RTX430_ARG3	99.7%	96.8%	AGATAAAAATTAATAAATAAAGTAAACCGTGTATTCGACAAATTCCTTTTTCTATTTTTCTGAAATTTTGAAGAAATGACCCCACTGTTTCCCGCTAATGAAACCA
1 IS18760_ARG3	100.0%	100.0%	CGTTTTCCATAAGAGTATCCCACTTTTACCCTGTTTCTTATACGCCGCCAATTTTTTGGAAAAACGTAATCCGTAGAAATCCGATGGCACCCTACTTTTTTTGTAAAG
2 BTX623_ARG3	99.3%	98.7%	CGTTTTCCATAAGAGTATCCCACTTTTACCCTGTTTCTTATACGCCGCCAATTTTTTGGAAAAACGTAATCCGTAGAAATCCGATGGCACCCTACTTTTTTTGTAAAG
3 BTX642_ARG3	99.3%	98.7%	CGTTTTCCATAAGAGTATCCCACTTTTACCCTGTTTCTTATACGCCGCCAATTTTTTGGAAAAACGTAATCCGTAGAAATCCGATGGCACCCTACTTTTTTTGTAAAG
4 Sbr10_ARG3	99.5%	99.0%	CGTTTTCCATAAGAGTATCCCACTTTTACCCTGTTTCTTATACGCCGCCAATTTTTTGGAAAAACGTAATCCGTAGAAATCCGATGGCACCCTACTTTTTTTGTAAAG
5 RTX430_ARG3	99.7%	96.8%	CGTTTTCCATAAGAGTATCCCACTTTTACCCTGTTTCTTATACGCCGCCAATTTTTTGGAAAAACGTAATCCGTAGAAATCCGATGGCACCCTACTTTTTTTGTAAAG
1 IS18760_ARG3	100.0%	100.0%	GGCTCTACCGTGCNAACCAACTTTGGAAATCTTTCAAAAGTAAATAAATTTCTCGATTCACAAAAACCCAGCCCTTTTACCATAAATCTCCCTAAGGTTTCTATCTCTCTCT
2 BTX623_ARG3	99.3%	98.7%	GGCTCTACCGTGCNAACCAACTTTGGAAATCTTTCAAAAGTAAATAAATTTCTCGATTCACAAAAACCCAGCCCTTTTACCATAAATCTCCCTAAGGTTTCTATCTCTCTCT
3 BTX642_ARG3	99.3%	98.7%	GGCTCTACCGTGCNAACCAACTTTGGAAATCTTTCAAAAGTAAATAAATTTCTCGATTCACAAAAACCCAGCCCTTTTACCATAAATCTCCCTAAGGTTTCTATCTCTCTCT
4 Sbr10_ARG3	99.5%	99.0%	GGCTCTACCGTGCNAACCAACTTTGGAAATCTTTCAAAAGTAAATAAATTTCTCGATTCACAAAAACCCAGCCCTTTTACCATAAATCTCCCTAAGGTTTCTATCTCTCTCT
5 RTX430_ARG3	99.7%	96.8%	GGCTCTACCGTGCNAACCAACTTTGGAAATCTTTCAAAAGTAAATAAATTTCTCGATTCACAAAAACCCAGCCCTTTTACCATAAATCTCCCTAAGGTTTCTATCTCTCTCT
1 IS18760_ARG3	100.0%	100.0%	TGAAATACCTTTCTAACAAACCTCAAGTACTTTCAAAAGTGTATTTTGGGCGGTGTACCCCAACAGGACCCAAAACAGTAGCCCAATCAAGGATGGAAATCTGGTACCCTTCTAT
2 BTX623_ARG3	99.3%	98.7%	TGAAATACCTTTCTAACAAACCTCAAGTACTTTCAAAAGTGTATTTTGGGCGGTGTACCCCAACAGGACCCAAAACAGTAGCCCAATCAAGGATGGAAATCTGGTACCCTTCTAT
3 BTX642_ARG3	99.3%	98.7%	TGAAATACCTTTCTAACAAACCTCAAGTACTTTCAAAAGTGTATTTTGGGCGGTGTACCCCAACAGGACCCAAAACAGTAGCCCAATCAAGGATGGAAATCTGGTACCCTTCTAT
4 Sbr10_ARG3	99.5%	99.0%	TGAAATACCTTTCTAACAAACCTCAAGTACTTTCAAAAGTGTATTTTGGGCGGTGTACCCCAACAGGACCCAAAACAGTAGCCCAATCAAGGATGGAAATCTGGTACCCTTCTAT
5 RTX430_ARG3	99.7%	96.8%	TGAAATACCTTTCTAACAAACCTCAAGTACTTTCAAAAGTGTATTTTGGGCGGTGTACCCCAACAGGACCCAAAACAGTAGCCCAATCAAGGATGGAAATCTGGTACCCTTCTAT
1 IS18760_ARG3	100.0%	100.0%	GGAGGGGAAAGCTCTCCCTCGAATCCCAAGTGGCTTCGATCCGAAGCTCTCTTTGTTGGGCCACCAATCGCGAGGGCCACCAATGCAAAAGCTCATGAGGGGAAGTAAGGCCTCTCT
2 BTX623_ARG3	99.3%	98.7%	GGAGGGGAAAGCTCTCCCTCGAATCCCAAGTGGCTTCGATCCGAAGCTCTCTTTGTTGGGCCACCAATCGCGAGGGCCACCAATGCAAAAGCTCATGAGGGGAAGTAAGGCCTCTCT
3 BTX642_ARG3	99.3%	98.7%	GGAGGGGAAAGCTCTCCCTCGAATCCCAAGTGGCTTCGATCCGAAGCTCTCTTTGTTGGGCCACCAATCGCGAGGGCCACCAATGCAAAAGCTCATGAGGGGAAGTAAGGCCTCTCT
4 Sbr10_ARG3	99.5%	99.0%	GGAGGGGAAAGCTCTCCCTCGAATCCCAAGTGGCTTCGATCCGAAGCTCTCTTTGTTGGGCCACCAATCGCGAGGGCCACCAATGCAAAAGCTCATGAGGGGAAGTAAGGCCTCTCT
5 RTX430_ARG3	99.7%	96.8%	GGAGGGGAAAGCTCTCCCTCGAATCCCAAGTGGCTTCGATCCGAAGCTCTCTTTGTTGGGCCACCAATCGCGAGGGCCACCAATGCAAAAGCTCATGAGGGGAAGTAAGGCCTCTCT
1 IS18760_ARG3	100.0%	100.0%	TTTTGATCCATCATCTCGATTTTCTGATCAATTTCTAAATTTTCCATAATCGATCTTTTGGTGGGCTGGAGGTAAAAACCAAAATCTGCTTCAAGATTCTGCCCAA
2 BTX623_ARG3	99.3%	98.7%	TTTTGATCCATCATCTCGATTTTCTGATCAATTTCTAAATTTTCCATAATCGATCTTTTGGTGGGCTGGAGGTAAAAACCAAAATCTGCTTCAAGATTCTGCCCAA
3 BTX642_ARG3	99.3%	98.7%	TTTTGATCCATCATCTCGATTTTCTGATCAATTTCTAAATTTTCCATAATCGATCTTTTGGTGGGCTGGAGGTAAAAACCAAAATCTGCTTCAAGATTCTGCCCAA
4 Sbr10_ARG3	99.5%	99.0%	TTTTGATCCATCATCTCGATTTTCTGATCAATTTCTAAATTTTCCATAATCGATCTTTTGGTGGGCTGGAGGTAAAAACCAAAATCTGCTTCAAGATTCTGCCCAA
5 RTX430_ARG3	99.7%	96.8%	TTTTGATCCATCATCTCGATTTTCTGATCAATTTCTAAATTTTCCATAATCGATCTTTTGGTGGGCTGGAGGTAAAAACCAAAATCTGCTTCAAGATTCTGCCCAA

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

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AGAAACCTGGCCCCCACCACATTAGTTCGGAGAACCAACCCCTCCAGGAGCTCCGGGAGAGCCCAATGGCTCGGGGCACTAGGCGACCCAAAGGGCAA
AGAAACCTGGCCCCCACCACATTAGTTCGGAGAACCAACCCCTCCAGGAGCTCCGGGAGAGCCCAATGGCTCGGGGCACTAGGCGACCCAAAGGGCAA

cov pid

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

6001 1 6120
GATGGAGACCAAGCCAAGGGGCTCTTTTTCGCTTCAGTGAGTCCATTAGCCAAACCCAAAGGGAACTCTGAGAATTCCAAATACGAAATGAACTCCTCCCTGATGCCAGTCG
GATGGAGACCAAGCCAAGGGGCTCTTTTTCGCTTCAGTGAGTCCATTAGCCAAACCCAAAGGGAACTCTGAGAATTCCAAATACGAAATGAACTCCTCCCTGATGCCAGTCG
GATGGAGACCAAGCCAAGGGGCTCTTTTTCGCTTCAGTGAGTCCATTAGCCAAACCCAAAGGGAACTCTGAGAATTCCAAATACGAAATGAACTCCTCCCTGATGCCAGTCG
GATGGAGACCAAGCCAAGGGGCTCTTTTTCGCTTCAGTGAGTCCATTAGCCAAACCCAAAGGGAACTCTGAGAATTCCAAATACGAAATGAACTCCTCCCTGATGCCAGTCG

cov pid

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

6121 2 6240
ATCAAGCTCCGGCTCCCAAGCCATCCCTGAAGATGGAAGTGTAGCGAACGCTTTCTGCTCAATCAGCTCCGCGATCCGCTGACTCTTGGCATTCAGCAGGGAAAACGGG
ATCAAGCTCCGGCTCCCAAGCCATCCCTGAAGATGGAAGTGTAGCGAACGCTTTCTGCTCAATCAGCTCCGCGATCCGCTGACTCTTGGCATTCAGCAGGGAAAACGGG
ATCAAGCTCCGGCTCCCAAGCCATCCCTGAAGATGGAAGTGTAGCGAACGCTTTCTGCTCAATCAGCTCCGCGATCCGCTGACTCTTGGCATTCAGCAGGGAAAACGGG
ATCAAGCTCCGGCTCCCAAGCCATCCCTGAAGATGGAAGTGTAGCGAACGCTTTCTGCTCAATCAGCTCCGCGATCCGCTGACTCTTGGCATTCAGCAGGGAAAACGGG

cov pid

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

6241 3 6360
TAACTTTTACTTCAGATAGTAATGATGGAAGAGCTTATCCCTGATATTTTCGGCCACCCCTATGGTAAATGGAGTTACAGAGCCGACTTAAATAGCCCTATAATAGAAATAAACT
TAACTTTTACTTCAGATAGTAATGATGGAAGAGCTTATCCCTGATATTTTCGGCCACCCCTATGGTAAATGGAGTTACAGAGCCGACTTAAATAGCCCTATAATAGAAATAAACT
TAACTTTTACTTCAGATAGTAATGATGGAAGAGCTTATCCCTGATATTTTCGGCCACCCCTATGGTAAATGGAGTTACAGAGCCGACTTAAATAGCCCTATAATAGAAATAAACT
TAACTTTTACTTCAGATAGTAATGATGGAAGAGCTTATCCCTGATATTTTCGGCCACCCCTATGGTAAATGGAGTTACAGAGCCGACTTAAATAGCCCTATAATAGAAATAAACT

cov pid

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

6361 4 6480
AATAATTCACATTAACCGTTTCCTGCGCAAAGGATCTGGAAGCTTCAGTTCCTGCTAGCATTGATCTCTTGGCCCTCCGCGATCCCTGACTCTTGGCATTCAGCAGGGAAAACGGG
AATAATTCACATTAACCGTTTCCTGCGCAAAGGATCTGGAAGCTTCAGTTCCTGCTAGCATTGATCTCTTGGCCCTCCGCGATCCCTGACTCTTGGCATTCAGCAGGGAAAACGGG
AATAATTCACATTAACCGTTTCCTGCGCAAAGGATCTGGAAGCTTCAGTTCCTGCTAGCATTGATCTCTTGGCCCTCCGCGATCCCTGACTCTTGGCATTCAGCAGGGAAAACGGG
AATAATTCACATTAACCGTTTCCTGCGCAAAGGATCTGGAAGCTTCAGTTCCTGCTAGCATTGATCTCTTGGCCCTCCGCGATCCCTGACTCTTGGCATTCAGCAGGGAAAACGGG

cov pid

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

6481 5 6600
AGTAGGAGAAACTCTTCAGCTCTCTGTAAGCTTACCTGGCCCCGATCAGGGCAAAATATAGTGAATCCGCTGATCCGGCTGGGGTCCCTCCGGCCACCAAGCAGTTGCTCTCTTGCAGTT
AGTAGGAGAAACTCTTCAGCTCTCTGTAAGCTTACCTGGCCCCGATCAGGGCAAAATATAGTGAATCCGCTGATCCGGCTGGGGTCCCTCCGGCCACCAAGCAGTTGCTCTCTTGCAGTT
AGTAGGAGAAACTCTTCAGCTCTCTGTAAGCTTACCTGGCCCCGATCAGGGCAAAATATAGTGAATCCGCTGATCCGGCTGGGGTCCCTCCGGCCACCAAGCAGTTGCTCTCTTGCAGTT
AGTAGGAGAAACTCTTCAGCTCTCTGTAAGCTTACCTGGCCCCGATCAGGGCAAAATATAGTGAATCCGCTGATCCGGCTGGGGTCCCTCCGGCCACCAAGCAGTTGCTCTCTTGCAGTT

cov pid

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

6601 7 6720
GCAGCTACAGCCAAAAGGGCCAGCCGATCAGGGATCCCAAAGACCTGCTCCGCTTGTACAGCTGCTTACAACACAGCAGCAATTTCTCCAGACTCCACACTGCCCTGGCCAGA
GCAGCTACAGCCAAAAGGGCCAGCCGATCAGGGATCCCAAAGACCTGCTCCGCTTGTACAGCTGCTTACAACACAGCAGCAATTTCTCCAGACTCCACACTGCCCTGGCCAGA
GCAGCTACAGCCAAAAGGGCCAGCCGATCAGGGATCCCAAAGACCTGCTCCGCTTGTACAGCTGCTTACAACACAGCAGCAATTTCTCCAGACTCCACACTGCCCTGGCCAGA
GCAGCTACAGCCAAAAGGGCCAGCCGATCAGGGATCCCAAAGACCTGCTCCGCTTGTACAGCTGCTTACAACACAGCAGCAATTTCTCCAGACTCCACACTGCCCTGGCCAGA

cov pid

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

6721 8 6840
GGTGCACATCCACCAATCTTTTTCCTCCCTTTCGCAAAAAAAAAAAGAAATGCTGATATAGCTTTGAGAAAGTTATTTTTTTTAACTTGACTACATTAATAAAAAAACATTTATCTTT
GGTGCACATCCACCAATCTTTTTCCTCCCTTTCGCAAAAAAAAAAAGAAATGCTGATATAGCTTTGAGAAAGTTATTTTTTTTAACTTGACTACATTAATAAAAAAACATTTATCTTT
GGTGCACATCCACCAATCTTTTTCCTCCCTTTCGCAAAAAAAAAAAGAAATGCTGATATAGCTTTGAGAAAGTTATTTTTTTTAACTTGACTACATTAATAAAAAAACATTTATCTTT
GGTGCACATCCACCAATCTTTTTCCTCCCTTTCGCAAAAAAAAAAAGAAATGCTGATATAGCTTTGAGAAAGTTATTTTTTTTAACTTGACTACATTAATAAAAAAACATTTATCTTT

cov pid

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

6841 9 6960
AAAAGGATTTTATTAATAATTTTTAAATTAATTTGATATTTTGTATTTAAATATTACTACTACTGTTTAAAGAAAATTAGACTTTGTTTGTTTTTCTCTAAAGT
AAAAGGATTTTATTAATAATTTTTAAATTAATTTGATATTTTGTATTTAAATATTACTACTACTGTTTAAAGAAAATTAGACTTTGTTTGTTTTTCTCTAAAGT
AAAAGGATTTTATTAATAATTTTTAAATTAATTTGATATTTTGTATTTAAATATTACTACTACTGTTTAAAGAAAATTAGACTTTGTTTGTTTTTCTCTAAAGT
AAAAGGATTTTATTAATAATTTTTAAATTAATTTGATATTTTGTATTTAAATATTACTACTACTGTTTAAAGAAAATTAGACTTTGTTTGTTTTTCTCTAAAGT

cov pid

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

6961 0 7080
TTACTCCCAATTAATTTGGACCGTAGCAATAAATTTAAATATATCTCTACTACTGAAAAAATAGAGGGTTCTGCGCTAACCTTCCGCCAGTCCCAATACCCGATTTGGCT
TTACTCCCAATTAATTTGGACCGTAGCAATAAATTTAAATATATCTCTACTACTGAAAAAATAGAGGGTTCTGCGCTAACCTTCCGCCAGTCCCAATACCCGATTTGGCT
TTACTCCCAATTAATTTGGACCGTAGCAATAAATTTAAATATATCTCTACTACTGAAAAAATAGAGGGTTCTGCGCTAACCTTCCGCCAGTCCCAATACCCGATTTGGCT
TTACTCCCAATTAATTTGGACCGTAGCAATAAATTTAAATATATCTCTACTACTGAAAAAATAGAGGGTTCTGCGCTAACCTTCCGCCAGTCCCAATACCCGATTTGGCT

cov pid

1 IS18760_ARG3 100.0% 100.0%
2 BTX623_ARG3 99.3% 98.7%
3 BTX642_ARG3 99.3% 98.7%
4 Sbr1o_ARG3 99.5% 99.0%
5 RTX430_ARG3 99.7% 96.8%

7081 1 7200
CCGGAGCTCCGAAAATAGAAACCTAAGTACCTACCCAAATCCCTCCCCCAAGGATCAGCTTTCGCAAGTGGCTCCTTAGACTGGGAGATCTCAAATACCTGAAATACAGTCAAA

4 SbrRio_ARG3	99.5%	99.0%		7	9720	
5 RTX430_ARG3	99.7%	96.8%				
1 IS18760_ARG3	100.0%	100.0%		8	9840	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				
5 RTX430_ARG3	99.7%	96.8%				
1 IS18760_ARG3	100.0%	100.0%		9	9960	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				
5 RTX430_ARG3	99.7%	96.8%				
1 IS18760_ARG3	100.0%	100.0%		0	10080	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				
5 RTX430_ARG3	99.7%	96.8%				
1 IS18760_ARG3	100.0%	100.0%		1	10081	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				
5 RTX430_ARG3	99.7%	96.8%				
1 IS18760_ARG3	100.0%	100.0%		2	10200	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				
5 RTX430_ARG3	99.7%	96.8%				
1 IS18760_ARG3	100.0%	100.0%		3	10320	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				
5 RTX430_ARG3	99.7%	96.8%				
1 IS18760_ARG3	100.0%	100.0%		4	10440	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				
5 RTX430_ARG3	99.7%	96.8%				
1 IS18760_ARG3	100.0%	100.0%		5	10560	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				
5 RTX430_ARG3	99.7%	96.8%				
1 IS18760_ARG3	100.0%	100.0%		6	10680	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				
5 RTX430_ARG3	99.7%	96.8%				
1 IS18760_ARG3	100.0%	100.0%		7	10681	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				
1 IS18760_ARG3	100.0%	100.0%		8	10800	
2 BTX623_ARG3	99.3%	98.7%				
3 BTX642_ARG3	99.3%	98.7%				
4 SbrRio_ARG3	99.5%	99.0%				



	cov	pid	13201		3	13320	
1 IS18760_ARG3	100.0%	100.0%	AAATTTGATACCCAAATAAGcattatttatttatttatacaatttagtaatttttttaagtaaaacattttgagataatgcttggactaTTTTTTTACAAATTTTTTAAAAATTCGGA				
2 BTX623_ARG3	99.3%	98.7%	AAATTTGATACCCAAATAAGcattatttatttatttatacaatttagcaattttttaaagtaaaacattttgagataatgcttggactaTTTTTTTACAAATTTTTTAAAAATTCGGA				
3 BTX642_ARG3	99.3%	98.7%	aaattttgatcccaaaataagcattatttatttatttatacaatttagcatttttttaagtaaaacattttgagataatgcttggactaTTTTTTTACAAATTTTTTAAAAATTCGGA				
4 SbrIo_ARG3	99.5%	99.0%	AAATTTGATACCCAAATAAGcattatttatttatttatacaatttagcatttttttaagtaaaacattttgagataatgcttggactaTTTTTTTACAAATTTTTTAAAAATTCGGA				
5 RTX430_ARG3	99.7%	96.8%	aaattttgatcccaaaataagcattatttatttatttatacaatttagcatttttttaagtaaaacattttgagataatgcttggactaTTTTTTTACAAATTTTTTAAAAATTCGGA				
	cov	pid	13321		4	13440	
1 IS18760_ARG3	100.0%	100.0%	AAACGAGTTTCCACTGCTTTCTAGGACCGGACTGCCACGTCGCAAAAAAATGAAGGCAGCGCAATGATAAGGAGAAAAACACATTTGAGTATGGTGAACATCCGGTTCATGGTGCCTTT				
2 BTX623_ARG3	99.3%	98.7%	AAACGAGTTTCCACTGCTTTCTAGGACCGGACTGCCACGTCGCAAAAAAATGAAGGCAGCGCAATGATAAGGAGAAAAACACATTTGAGTATGGTGAACATCCGGTTCATGGTGCCTTT				
3 BTX642_ARG3	99.3%	98.7%	AAACGAGTTTCCACTGCTTTCTAGGACCGGACTGCCACGTCGCAAAAAAATGAAGGCAGCGCAATGATAAGGAGAAAAACACATTTGAGTATGGTGAACATCCGGTTCATGGTGCCTTT				
4 SbrIo_ARG3	99.5%	99.0%	AAACGAGTTTCCACTGCTTTCTAGGACCGGACTGCCACGTCGCAAAAAAATGAAGGCAGCGCAATGATAAGGAGAAAAACACATTTGAGTATGGTGAACATCCGGTTCATGGTGCCTTT				
5 RTX430_ARG3	99.7%	96.8%	AAACGAGTTTCCACTGCTTTCTAGGACCGGACTGCCACGTCGCAAAAAAATGAAGGCAGCGCAATGATAAGGAGAAAAACACATTTGAGTATGGTGAACATCCGGTTCATGGTGCCTTT				
	cov	pid	13441		5	13560	
1 IS18760_ARG3	100.0%	100.0%	CTAGGATCAGTCCCGAAACAATTCACAGCTTAGCCTTGCCATGCTGACGAGTGAACGCCCTGCACTGTTGCCGTGACCGTAGTCCGTAGGACAGTAGTAGGAGTAGTCCAGCAGC				
2 BTX623_ARG3	99.3%	98.7%	CTAGGATCAGTCCCGAAACAATTCACAGCTTAGCCTTGCCATGCTGACGAGTGAACGCCCTGCACTGTTGCCGTGACCGTAGTCCGTAGGACAGTAGTAGGAGTAGTCCAGCAGC				
3 BTX642_ARG3	99.3%	98.7%	CTAGGATCAGTCCCGAAACAATTCACAGCTTAGCCTTGCCATGCTGACGAGTGAACGCCCTGCACTGTTGCCGTGACCGTAGTCCGTAGGACAGTAGTAGGAGTAGTCCAGCAGC				
4 SbrIo_ARG3	99.5%	99.0%	CTAGGATCAGTCCCGAAACAATTCACAGCTTAGCCTTGCCATGCTGACGAGTGAACGCCCTGCACTGTTGCCGTGACCGTAGTCCGTAGGACAGTAGTAGGAGTAGTCCAGCAGC				
5 RTX430_ARG3	99.7%	96.8%	CTAGGATCAGTCCCGAAACAATTCACAGCTTAGCCTTGCCATGCTGACGAGTGAACGCCCTGCACTGTTGCCGTGACCGTAGTCCGTAGGACAGTAGTAGGAGTAGTCCAGCAGC				
	cov	pid	13561		6	13680	
1 IS18760_ARG3	100.0%	100.0%	TAGCAAGGAGTATAGTCTACTCTTAGGACAAACAGATACCTCCAAAAA-CTCACTCCCAAAACAGGATGCATCTCCGCTCCAGTTGAGATTGACGAACACCAATATGATTGAAATT				
2 BTX623_ARG3	99.3%	98.7%	TAGCAAGGAGTATAGTCTACTCTTAGGACAAACAGATACCTCCAAAAA-CTCACTCCCAAAACAGGATGCATCTCCGCTCCAGTTGAGATTGACGAACACCAATATGATTGAAATT				
3 BTX642_ARG3	99.3%	98.7%	TAGCAAGGAGTATAGTCTACTCTTAGGACAAACAGATACCTCCAAAAA-CTCACTCCCAAAACAGGATGCATCTCCGCTCCAGTTGAGATTGACGAACACCAATATGATTGAAATT				
4 SbrIo_ARG3	99.5%	99.0%	TAGCAAGGAGTATAGTCTACTCTTAGGACAAACAGATACCTCCAAAAA-CTCACTCCCAAAACAGGATGCATCTCCGCTCCAGTTGAGATTGACGAACACCAATATGATTGAAATT				
5 RTX430_ARG3	99.7%	96.8%	TAGCAAGGAGTATAGTCTACTCTTAGGACAAACAGATACCTCCAAAAA-CTCACTCCCAAAACAGGATGCATCTCCGCTCCAGTTGAGATTGACGAACACCAATATGATTGAAATT				
	cov	pid	13681		7	8	13800
1 IS18760_ARG3	100.0%	100.0%	TGCCCGCTCAACCAAGAACACAGATCGATACAGAGTTGATGCTCCCTCTCCGGTCAACCCAGCAATCAAGCATGCTGCAATGGCTTTGGTGCATGTCGCCCTCCGCTCCGCTGCA				
2 BTX623_ARG3	99.3%	98.7%	TGCCCGCTCAACCAAGAACACAGATCGATACAGAGTTGATGCTCCCTCTCCGGTCAACCCAGCAATCAAGCATGCTGCAATGGCTTTGGTGCATGTCGCCCTCCGCTCCGCTGCA				
3 BTX642_ARG3	99.3%	98.7%	TGCCCGCTCAACCAAGAACACAGATCGATACAGAGTTGATGCTCCCTCTCCGGTCAACCCAGCAATCAAGCATGCTGCAATGGCTTTGGTGCATGTCGCCCTCCGCTCCGCTGCA				
4 SbrIo_ARG3	99.5%	99.0%	TGCCCGCTCAACCAAGAACACAGATCGATACAGAGTTGATGCTCCCTCTCCGGTCAACCCAGCAATCAAGCATGCTGCAATGGCTTTGGTGCATGTCGCCCTCCGCTCCGCTGCA				
5 RTX430_ARG3	99.7%	96.8%	TGCCCGCTCAACCAAGAACACAGATCGATACAGAGTTGATGCTCCCTCTCCGGTCAACCCAGCAATCAAGCATGCTGCAATGGCTTTGGTGCATGTCGCCCTCCGCTCCGCTGCA				
	cov	pid	13801		9	13920	
1 IS18760_ARG3	100.0%	100.0%	CSACAGGGC--AAGGGCAACACCTTAACACACAGCCAGTACCTACCGCTGTACCCCACTCCCTCATAGAGAACAG--CCGTATAGAGGCTACTATATACACACACGGTACAGCAGTAG				
2 BTX623_ARG3	99.3%	98.7%	CSACAGGGCTTAAGGGCAACACCTTAACACACAGCCAGTACCTACCGCTGTACCCCACTCCCTCATAGAGAACAGAGCCCTATAGAGGCTACTATATACACACACGGTACAGCAGTAG				
3 BTX642_ARG3	99.3%	98.7%	CSACAGGGCTTAAGGGCAACACCTTAACACACAGCCAGTACCTACCGCTGTACCCCACTCCCTCATAGAGAACAGAGCCCTATAGAGGCTACTATATACACACACGGTACAGCAGTAG				
4 SbrIo_ARG3	99.5%	99.0%	CSACAGGGCTTAAGGGCAACACCTTAACACACAGCCAGTACCTACCGCTGTACCCCACTCCCTCATAGAGAACAGAGCCCTATAGAGGCTACTATATACACACACGGTACAGCAGTAG				
5 RTX430_ARG3	99.7%	96.8%	CSACAGGGC--AAGGGCAACACCTTAACACACAGCCAGTACCTACCGCTGTACCCCACTCCCTCATAGAGAACAG--CCGTATAGAGGCTACTATATACACACACGGTACAGCAGTAG				
	cov	pid	13921		0	14040	
1 IS18760_ARG3	100.0%	100.0%	GAGCACCCACAGGCACCCGCGCAGGCAGCAGCTGGGCTGGGAGTGAAGAAGTACAGCCCTCC--GATCGACCTCCAGCCCTCCCTCGATGCTTCGCTTATCGCTG				
2 BTX623_ARG3	99.3%	98.7%	GAGCACCCACAGGCACCCGCGCAGGCAGCAGCTGGGCTGGGAGTGAAGAAGTACAGCCCTCC--GATCGACCTCCAGCCCTCCCTCGATGCTTCGCTTATCGCTG				
3 BTX642_ARG3	99.3%	98.7%	GAGCACCCACAGGCACCCGCGCAGGCAGCAGCTGGGCTGGGAGTGAAGAAGTACAGCCCTCC--GATCGACCTCCAGCCCTCCCTCGATGCTTCGCTTATCGCTG				
4 SbrIo_ARG3	99.5%	99.0%	GAGCACCCACAGGCACCCGCGCAGGCAGCAGCTGGGCTGGGAGTGAAGAAGTACAGCCCTCC--GATCGACCTCCAGCCCTCCCTCGATGCTTCGCTTATCGCTG				
5 RTX430_ARG3	99.7%	96.8%	GAGCACCCACAGGCACCCGCGCAGGCAGCAGCTGGGCTGGGAGTGAAGAAGTACAGCCCTCC--GATCGACCTCCAGCCCTCCCTCGATGCTTCGCTTATCGCTG				
	cov	pid	14041		1	14160	
1 IS18760_ARG3	100.0%	100.0%	AGAGCTTTTGTCTTGGCTCAACAAATGGAGGCTCTGCTAGCTTTGGCCCTTTCCCTTTCTTGTACATGCCGCAACTCTATGCTCCCTCC--GATCGACCTCCAGCCCTCCCTAGCAGCT				
2 BTX623_ARG3	99.3%	98.7%	AGAGCTTTTGTCTTGGCTCAACAAATGGAGGCTCTGCTAGCTTTGGCCCTTTCCCTTTCTTGTACATGCCGCAACTCTATGCTCCCTCC--GATCGACCTCCAGCCCTCCCTAGCAGCT				
3 BTX642_ARG3	99.3%	98.7%	AGAGCTTTTGTCTTGGCTCAACAAATGGAGGCTCTGCTAGCTTTGGCCCTTTCCCTTTCTTGTACATGCCGCAACTCTATGCTCCCTCC--GATCGACCTCCAGCCCTCCCTAGCAGCT				
4 SbrIo_ARG3	99.5%	99.0%	AGAGCTTTTGTCTTGGCTCAACAAATGGAGGCTCTGCTAGCTTTGGCCCTTTCCCTTTCTTGTACATGCCGCAACTCTATGCTCCCTCC--GATCGACCTCCAGCCCTCCCTAGCAGCT				
5 RTX430_ARG3	99.7%	96.8%	AGAGCTTTTGTCTTGGCTCAACAAATGGAGGCTCTGCTAGCTTTGGCCCTTTCCCTTTCTTGTACATGCCGCAACTCTATGCTCCCTCC--GATCGACCTCCAGCCCTCCCTAGCAGCT				
	cov	pid	14161		2	14280	
1 IS18760_ARG3	100.0%	100.0%	GCA--GCTTCCCGCCAGACACATGGAGAAATGGAGAGCTCG-----GCGCAGTGGCAGCTGGCAGCCCGTCCCTCCCTCCGTTCCCTCCCTGCTCTCTCTCTCTGAG				
2 BTX623_ARG3	99.3%	98.7%	GCA--GCTTCCCGCCAGACACATGGAGAAATGGAGAGCTCG-----GCGCAGTGGCAGCTGGCAGCCCGTCCCTCCCTCCGTTCCCTCCCTGCTCTCTCTCTCTGAG				
3 BTX642_ARG3	99.3%	98.7%	GCA--GCTTCCCGCCAGACACATGGAGAAATGGAGAGCTCG-----GCGCAGTGGCAGCTGGCAGCCCGTCCCTCCCTCCGTTCCCTCCCTGCTCTCTCTCTGAG				
4 SbrIo_ARG3	99.5%	99.0%	GCA--GCTTCCCGCCAGACACATGGAGAAATGGAGAGCTCG-----GCGCAGTGGCAGCTGGCAGCCCGTCCCTCCCTCCGTTCCCTCCCTGCTCTCTCTCTGAG				
5 RTX430_ARG3	99.7%	96.8%	GCA--GCTTCCCGCCAGACACATGGAGAAATGGAGAGCTCG-----GCGCAGTGGCAGCTGGCAGCCCGTCCCTCCCTCCGTTCCCTCCCTGCTCTCTCTCTGAG				
	cov	pid	14281		3	4	14400
1 IS18760_ARG3	100.0%	100.0%	CGCCCGCCCGCCCTTGACCCGGGAAGCGAGACGGGGGCAAGGAGTCAAGGTTCAATTCCTTTGCCCTTCCAGCTTCCCAAGGC--GGAAAAAGCCAAAGCCGGAACGGAAGCTAC				
2 BTX623_ARG3	99.3%	98.7%	CGCCCGCCCGCCCTTGACCCGGGAAGCGAGACGGGGGCAAGGAGTCAAGGTTCAATTCCTTTGCCCTTCCAGCTTCCCAAGGC--GGAAAAAGCCAAAGCCGGAACGGAAGCTAC				
3 BTX642_ARG3	99.3%	98.7%	CGCCCGCCCGCCCTTGACCCGGGAAGCGAGACGGGGGCAAGGAGTCAAGGTTCAATTCCTTTGCCCTTCCAGCTTCCCAAGGC--GGAAAAAGCCAAAGCCGGAACGGAAGCTAC				
4 SbrIo_ARG3	99.5%	99.0%	CGCCCGCCCGCCCTTGACCCGGGAAGCGAGACGGGGGCAAGGAGTCAAGGTTCAATTCCTTTGCCCTTCCAGCTTCCCAAGGC--GGAAAAAGCCAAAGCCGGAACGGAAGCTAC				
5 RTX430_ARG3	99.7%	96.8%	CGCCCGCCCGCCCTTGACCCGGGAAGCGAGACGGGGGCAAGGAGTCAAGGTTCAATTCCTTTGCCCTTCCAGCTTCCCAAGGC--GGAAAAAGCCAAAGCCGGAACGGAAGCTAC				
	cov	pid	14401		5	14520	

2	BTX623_ARG3	99.3%	98.7%	a cca c tttt aaaa c tag --- tt ag ttt taatt agacaa taatt cc ca taa t caaac gaag tgc acaa taatc gaatttt ---- ttttggc aagcaa taa caaggcc
3	BTX642_ARG3	99.3%	98.7%	a cca c tttt aaaa c tag --- tt ag ttt taatt agacaa taatt cc ca taa t caaac gaag tgc acaa taatc gaatttt ---- ttttggc aagcaa taa caaggcc
4	SbRio_ARG3	99.5%	99.0%	a cca c tttt aaaa c tag --- tt ag ttt taatt agacaa taatt cc ca taa t caaac gaag tgc acaa taatc gaatttt ---- ttttggc aagcaa taa caaggcc
5	RTX430_ARG3	99.7%	96.8%	a cca c tttt aaaa c tag tta tt ag ttt taatt agacaa taatt cc ca taa t caaac gaag tgc acaa taatc gaatttt ---- ttttggc aagcaa taa caaggcc
		cov	pid	15721 . . : .] 15774
1	IS18760_ARG3	100.0%	100.0%	GATGAA TACTATGCTATTTGACCCAGCGGCATTTTCT-----AATGCCATT
2	BTX623_ARG3	99.3%	98.7%	GATGAA TACTATGCTATTTGACCCAGCGGCATTTTCTtggtgcaaaagctatt
3	BTX642_ARG3	99.3%	98.7%	GATGAA TACTATGCTATTTGACCCAGCGGCATTTTCTtggtgcaaaagctatt
4	SbRio_ARG3	99.5%	99.0%	GATGAA TACTATGCTATTTGACCCAGCGGCATTTTCTtggtgcaaaagctatt
5	RTX430_ARG3	99.7%	96.8%	GATGAA TACTATGCTATTTGACCCAGCGGCATTTTCTtagtgcaaaagctatt