

Supplemental_file_1_ corresponds to page 54 on the main thesis file

The ARG2 CDS in 15 lines [four resistant lines SC328C, Keller, SC237 and SbRio, and all the rest susceptible]. The allelic sequence cluster to four types: **ARG2 SC328C** [the upper four], **arg2_SC265** [the fifth], **arg2_TAM428** [6th to 11th] and **arg2_BTx623** [12th to 15th]. The premature stop codons are shaded red. This data corresponds to pages 56 and 57 on the main thesis file.

	cov	pid	1	120
1 ARG2_SC328C	100.0%	100.0%	ATGGCGGAGACGGCCCTCAGCCAGCAAAGTCAAACCCGGGAGCGCCACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
2 ARG2_Keller	100.0%	100.0%	ATGGCGGAGACGGCCCTCAGCCAGCAAAGTCAAACCCGGGAGCGCCACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
3 ARG2_SC237	100.0%	100.0%	ATGGCGGAGACGGCCCTCAGCCAGCAAAGTCAAACCCGGGAGCGCCACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
4 ARG2_SbRio	100.0%	100.0%	ATGGCGGAGACGGCCCTCAGCCAGCAAAGTCAAACCCGGGAGCGCCACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
5 arg2_SC265	97.0%	92.3%	ATGGCGGAGACGGCCCTCAGCCAGCAAAGTCAAACCCGGGAGCGCCACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
6 arg2_TAM428	97.5%	87.5%	ATGGCGGAGACGGCCCTCATCATGGCAAAGTCGGGCCAGGACGGCCGACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
7 arg2_BTx642	97.5%	87.5%	ATGGCGGAGACGGCCCTCATCATGGCAAAGTCGGGCCAGGACGGCCGACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
8 arg2_SC23	97.5%	87.5%	ATGGCGGAGACGGCCCTCATCATGGCAAAGTCGGGCCAGGACGGCCGACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
9 arg2_IS9830	97.5%	87.5%	ATGGCGGAGACGGCCCTCATCATGGCAAAGTCGGGCCAGGACGGCCGACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
10 arg2_PQ434	97.5%	87.5%	ATGGCGGAGACGGCCCTCATCATGGCAAAGTCGGGCCAGGACGGCCGACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
11 arg2_IS18760	97.5%	87.5%	ATGGCGGAGACGGCCCTCATCATGGCAAAGTCGGGCCAGGACGGCCGACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
12 arg2_ICSV745	99.6%	89.1%	ATGGCGGAGACGGCCCTCATCATGGCAAAGTCGGGCCAGGACGGCCGACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
13 arg2_IS8525	99.6%	89.2%	ATGGCGGAGACGGCCCTCATCATGGCAAAGTCGGGCCAGGACGGCCGACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
14 arg2_Malisor84-7	99.6%	89.1%	ATGGCGGAGACGGCCCTCATCATGGCAAAGTCGGGCCAGGACGGCCGACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
15 arg2_BTx623	99.6%	89.1%	ATGGCGGAGACGGCCCTCATCATGGCAAAGTCGGGCCAGGACGGCCGACAGCAAGGTGGCTCAGTCCCGTACGAGTAAGCTTTTGAATGGGCTGCAGAAGGAGATGGGTTCC	
	cov	pid	121	240
1 ARG2_SC328C	100.0%	100.0%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
2 ARG2_Keller	100.0%	100.0%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
3 ARG2_SC237	100.0%	100.0%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
4 ARG2_SbRio	100.0%	100.0%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
5 arg2_SC265	97.0%	92.3%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
6 arg2_TAM428	97.5%	87.5%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
7 arg2_BTx642	97.5%	87.5%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
8 arg2_SC23	97.5%	87.5%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
9 arg2_IS9830	97.5%	87.5%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
10 arg2_PQ434	97.5%	87.5%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
11 arg2_IS18760	97.5%	87.5%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
12 arg2_ICSV745	99.6%	89.1%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
13 arg2_IS8525	99.6%	89.2%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
14 arg2_Malisor84-7	99.6%	89.1%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
15 arg2_BTx623	99.6%	89.1%	ATCAAAGTGAAGCTAAAGACCTTGAAGCTTTCTGCAAGCTCCCAAGTAACAGAGAAAAAGATAAATTAGTGAAGGTTTGGGAGAGCAAGTACGAGATCTTCCATCGCACTTGAG	
	cov	pid	241	360
1 ARG2_SC328C	100.0%	100.0%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACAGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTGCAGATTCCCAACCTCAATCAAGATTCGAA	
2 ARG2_Keller	100.0%	100.0%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACAGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTGCAGATTCCCAACCTCAATCAAGATTCGAA	
3 ARG2_SC237	100.0%	100.0%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACAGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTGCAGATTCCCAACCTCAATCAAGATTCGAA	
4 ARG2_SbRio	100.0%	100.0%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACAGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTGCAGATTCCCAACCTCAATCAAGATTCGAA	
5 arg2_SC265	97.0%	92.3%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACAGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTGCAGATTCCCAACCTCAATCAAGATTCGAA	
6 arg2_TAM428	97.5%	87.5%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACCTGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTCCGGATTCCCAACCTCAATCAAGATTCGAA	
7 arg2_BTx642	97.5%	87.5%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACCTGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTCCGGATTCCCAACCTCAATCAAGATTCGAA	
8 arg2_SC23	97.5%	87.5%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACCTGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTCCGGATTCCCAACCTCAATCAAGATTCGAA	
9 arg2_IS9830	97.5%	87.5%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACCTGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTCCGGATTCCCAACCTCAATCAAGATTCGAA	
10 arg2_PQ434	97.5%	87.5%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACCTGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTCCGGATTCCCAACCTCAATCAAGATTCGAA	
11 arg2_IS18760	97.5%	87.5%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACCTGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTCCGGATTCCCAACCTCAATCAAGATTCGAA	
12 arg2_ICSV745	99.6%	89.1%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACCTGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTCCGGATTCCCAACCTCAATCAAGATTCGAA	
13 arg2_IS8525	99.6%	89.2%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACCTGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTCCGGATTCCCAACCTCAATCAAGATTCGAA	
14 arg2_Malisor84-7	99.6%	89.1%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACCTGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTCCGGATTCCCAACCTCAATCAAGATTCGAA	
15 arg2_BTx623	99.6%	89.1%	GATTGCAATGACGACTTTATGGTCCATCTGGGGAGCCCTAGCTTCTCAAACCTGTTGATGAAGCCAAAGATCGCATCGAATAGCTCTCCGGATTCCCAACCTCAATCAAGATTCGAA	
	cov	pid	361	480

1	ARG2_SC328C	100.0%	100.0%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAC	GAA												
2	ARG2_Keller	100.0%	100.0%	GAAGC	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAC	GAA												
3	ARG2_SC237	100.0%	100.0%	GAAGC	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAC	GAA												
4	ARG2_SbRio	100.0%	100.0%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAC	GAA												
5	arg2_SC265	97.0%	92.3%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
6	arg2_TAM428	97.5%	87.5%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
7	arg2_BTx642	97.5%	87.5%	GAAGC	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
8	arg2_SC23	97.5%	87.5%	GAAGC	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
9	arg2_IS9830	97.5%	87.5%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
10	arg2_PQ434	97.5%	87.5%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
11	arg2_IS18760	97.5%	87.5%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
12	arg2_ICSV745	99.6%	89.1%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
13	arg2_IS8525	99.6%	89.2%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
14	arg2_Malisor84-7	99.6%	89.1%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
15	arg2_BTx623	99.6%	89.1%	GAAGT	TAGCAG	CAGGAAT	GCACGC	TACAACT	TAA	TCAGAG	CGAA	CC	CCCAAC	CAAC	CAGT	GAT	GACGT	GGAT	CCAAC	T	GGAA	TAT	T	CCCAAC	CAAT	GCAGC	T	GGAA	CAT	T	GAT	GAA												
				cov	pid	481	5																		:	6																		600
1	ARG2_SC328C	100.0%	100.0%	GCAGAA	CTGT	GGCT	TTT	GAAGC	CCC	AAAAGAGAG	TG	GAT	GC	CG	GT	TGAG	C	CACCT	AT	TGGAT	GG	CC	GAT	AAGG	GG	TAT	GT	GGT	TT	GGC	AT	GGG	T	GGG	AAG	ACT								
2	ARG2_Keller	100.0%	100.0%	GCAGAA	CTGT	GGCT	TTT	GAAGC	CCC	AAAAGAGAG	TG	GAT	GC	CG	GT	TGAG	C	CACCT	AT	TGGAT	GG	CC	GAT	AAGG	GG	TAT	GT	GGT	TT	GGC</														

[illegible]

1	ARG2_SC328C	100.0%	100.0%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
2	ARG2_Keller	100.0%	100.0%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
3	ARG2_SC237	100.0%	100.0%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
4	ARG2_SbRio	100.0%	100.0%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
5	arg2_CS265	97.0%	92.3%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
6	arg2_TAM428	97.5%	87.5%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
7	arg2_BTx642	97.5%	87.5%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
8	arg2_SC23	97.5%	87.5%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
9	arg2_IS9830	97.5%	87.5%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
10	arg2_PQ434	97.5%	87.5%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
11	arg2_IS18760	97.5%	87.5%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
12	arg2_ICSV745	99.6%	89.1%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
13	arg2_IS8525	99.6%	89.2%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
14	arg2_Malisor84-7	99.6%	89.1%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT
15	arg2_BTx623	99.6%	89.1%	CCC	GAGA	TTAT	GAAA	CAAAAG	AGC	CTC	CGGT	GAT	AGT	TGGA	TAG	CAGAAGGG	TTTC	AAGAG	CAAGGG	TGGG	CAAC	ATT	GAT	GAGT	TGGGAAAGAG	TAC	TTT	GAT	GAGC	TTT

Dissertation, Demeke Mewa Bayable, Department of Botany and Plant Pathology - Purdue University (December 2020)

[illegible]

1	ARG2_SC328C	100.0%	100.0%	GCTGGGTTATTGGTCAAGCACCTTCATCTCTCAAGGTGATTCACTCAGGATCAAAAGTGGCGAGGC	CGGTATGCTGGAAGAAGAAGTGAACGCAACCCCCAAACG	CCGTGT
2	ARG2_Keller	100.0%	100.0%	GCTGGGTTATTGGTCAAGCACCTTCATCTCTCAAGGTGATTCACTCAGGATCAAAAGTGGCGAGGC	CGGTATGCTGGAAGAAGAAGTGAACGCAACCCCCAAACG	CCGTGT
3	ARG2_SC237	100.0%	100.0%	GCTGGGTTATTGGTCAAGCACCTTCATCTCTCAAGGTGATTCACTCAGGATCAAAAGTGGCGAGGC	CGGTATGCTGGAAGAAGAAGTGAACGCAACCCCCAAACG	CCGTGT
4	ARG2_SbRio	100.0%	100.0%	GCTGGGTTATTGGTCAAGCACCTTCATCTCTCAAGGTGATTCACTCAGGATCAAAAGTGGCGAGGC	CGGTATGCTGGAAGAAGAAGTGAACGCAACCCCCAAACG	CCGTGT
5	arg2_CS265	97.0%	92.3%	GCTGGGTTATTGGTCAAGCACCTTCATCTCTCAAGGTGATTCACTCAGGATCAAAAGTGGCGAGGC	CGGTATGCTGGAAGAAGAAGTGAACGCAACCCCCAAACG	CCGTGT
6	arg2_TAM428	97.5%	87.5%	GTCAGGGATTATTGGTCAAGCACCTTTTCATCTCTCAAGGTGATTCACTCGGGATTCACGCTCCAGGCG	CGGTATGCTGGAAGAAGAAGTGAACACACACCCCTAAACAC	CCGTGT
7	arg2_BTx642	97.5%	87.5%	GTCAGGGATTATTGGTCAAGCACCTTTTCATCTCTCAAGGTGATTCACTCGGGATTCACGCTCCAGGCG	CGGTATGCTGGAAGAAGAAGTGAACACACACCCCTAAACAC	CCGTGT
8	arg2_SC23	97.5%	87.5%	GTCAGGGATTATTGGTCAAGCACCTTTTCATCTCTCAAGGTGATTCACTCGGGATTCACGCTCCAGGCG	CGGTATGCTGGAAGAAGAAGTGAACACACACCCCTAAACAC	CCGTGT
9	arg2_IS9830	97.5%	87.5%	GTCAGGGATTATTGGTCAAGCACCTTTTCATCTCTCAAGGTGATTCACTCGGGATTCACGCTCCAGGCG	CGGTATGCTGGAAGAAGAAGTGAACACACACCCCTAAACAC	CCGTGT
10	arg2_PQ434	97.5%	87.5%	GTCAGGGATTATTGGTCAAGCACCTTTTCATCTCTCAAGGTGATTCACTCGGGATTCACGCTCCAGGCG	CGGTATGCTGGAAGAAGAAGTGAACACACACCCCTAAACAC	CCGTGT
11	arg2_IS18760	97.5%	87.5%	GTCAGGGATTATTGGTCAAGCACCTTTTCATCTCTCAAGGTGATTCACTCGGGATTCACGCTCCAGGCG	CGGTATGCTGGAAGAAGAAGTGAACACACACCCCTAAACAC	CCGTGT
12	arg2_ICSV745	99.6%	89.1%	GTCAGGGATTATTGGTCAAGCACCTTTTCATCTCTCAAGGTGATTCACTCGGGATTCACGCTCCAGGCG	CGGTATGCTGGAAGAAGAAGTGAACACACACCCCTAAACAC	CCGTGT
13	arg2_IS8525	99.6%	89.2%	GTCAGGGATTATTGGTCAAGCACCTTTTCATCTCTCAAGGTGATTCACTCGGGATTCACGCTCCAGGCG	CGGTATGCTGGAAGAAGAAGTGAACACACACCCCTAAACAC	CCGTGT
14	arg2_Malisor84-7	99.6%	89.1%	GTCAGGGATTATTGGTCAAGCACCTTTTCATCTCTCAAGGTGATTCACTCGGGATTCACGCTCCAGGCG	CGGTATGCTGGAAGAAGAAGTGAACACACACCCCTAAACAC	CCGTGT
15	arg2_BTx623	99.6%	89.1%	GTCAGGGATTATTGGTCAAGCACCTTTTCATCTCTCAAGGTGATTCACTCGGGATTCACGCTCCAGGCG	CGGTATGCTGGAAGAAGAAGTGAACACACACCCCTAAACAC	CCGTGT
				cov pid 2881 9 0 3000		
1	ARG2_SC328C	100.0%	100.0%	CCGCGGCTCAAGAGGACCGAAGTACCTTGGCCGAGGAGACATTGAAGGATCCCATGCGGAGGTGGAAGCAACAGAA	CCCTTCCGACCC---ACGCCGAGAGATCCACCAAGT	
2	ARG2_Keller	100.0%	100.0%	CCGCGGCTCAAGAGGACCGAAGTACCTTGGCCGAGGAGACATTGAAGGATCCCATGCGGAGGTGGAAGCAACAGAA	CCCTTCCGACCC---ACGCCGAGAGATCCACCAAGT	
3	ARG2_SC237	100.0%	100.0%	CCGCGGCTCAAGAGGACCGAAGTACCTTGGCCGAGGAGACATTGAAGGATCCCATGCGGAGGTGGAAGCAACAGAA	CCCTTCCGACCC---ACGCCGAGAGATCCACCAAGT	
4	ARG2_SbRio	100.0%	100.0%	CCGCGGCTCAAGAGGACCGAAGTACCTTGGCCGAGGAGACATTGAAGGATCCCATGCGGAGGTGGAAGCAACAGAA	CCCTTCCGACCC---ACGCCGAGAGATCCACCAAGT	
5	arg2_CS265	97.0%	92.3%	-----GCTATCAGAGGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCCCATGCGGAGGTGGAAGCAACAGAA	CCCTTCCGACCC---G-TGGCTGAGAGATATACCAAGT	
6	arg2_TAM428	97.5%	87.5%	CCGCGGCTATCAGATGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCTCCCATACCCAGGTGGAAGCAACAGAA	CCCTTCTTGAT-----ATGGCAGAGAGATCCACCAAGT	
7	arg2_BTx642	97.5%	87.5%	CCGCGGCTATCAGATGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCTCCCATACCCAGGTGGAAGCAACAGAA	CCCTTCTTGAT-----ATGGCAGAGAGATCCACCAAGT	
8	arg2_SC23	97.5%	87.5%	CCGCGGCTATCAGATGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCTCCCATACCCAGGTGGAAGCAACAGAA	CCCTTCTTGAT-----ATGGCAGAGAGATCCACCAAGT	
9	arg2_IS9830	97.5%	87.5%	CCGCGGCTATCAGATGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCTCCCATACCCAGGTGGAAGCAACAGAA	CCCTTCTTGAT-----ATGGCAGAGAGATCCACCAAGT	
10	arg2_PQ434	97.5%	87.5%	CCGCGGCTATCAGATGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCTCCCATACCCAGGTGGAAGCAACAGAA	CCCTTCTTGAT-----ATGGCAGAGAGATCCACCAAGT	
11	arg2_IS18760	97.5%	87.5%	CCGCGGCTATCAGATGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCTCCCATACCCAGGTGGAAGCAACAGAA	CCCTTCTTGAT-----ATGGCAGAGAGATCCACCAAGT	
12	arg2_ICSV745	99.6%	89.1%	CCGCGGCTATCAGATGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCTCCCATACCCAGGTGGAAGCAACAGAA	CCCTTCTTGAT-----ATGGCAGAGAGATCCACCAAGT	
13	arg2_IS8525	99.6%	89.2%	CCGCGGCTATCAGATGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCTCCCATACCCAGGTGGAAGCAACAGAA	CCCTTCTTGAT-----ATGGCAGAGAGATCCACCAAGT	
14	arg2_Malisor84-7	99.6%	89.1%	CCGCGGCTATCAGATGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCTCCCATACCCAGGTGGAAGCAACAGAA	CCCTTCTTGAT-----ATGGCAGAGAGATCCACCAAGT	
15	arg2_BTx623	99.6%	89.1%	CCGCGGCTATCAGATGACCGAAGTACCTTGAACCTGGGAGACGTTGAAGGATCTCCCATACCCAGGTGGAAGCAACAGAA	CCCTTCTTGAT-----ATGGCAGAGAGATCCACCAAGT	
				cov pid 3001 1 3049		
1	ARG2_SC328C	100.0%	100.0%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
2	ARG2_Keller	100.0%	100.0%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
3	ARG2_SC237	100.0%	100.0%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
4	ARG2_SbRio	100.0%	100.0%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
5	arg2_CS265	97.0%	92.3%	GATCACCACTAGCAGGACCGACAGTGAAACCAAGCCTTCCTCATTGA		
6	arg2_TAM428	97.5%	87.5%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
7	arg2_BTx642	97.5%	87.5%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
8	arg2_SC23	97.5%	87.5%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
9	arg2_IS9830	97.5%	87.5%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
10	arg2_PQ434	97.5%	87.5%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
11	arg2_IS18760	97.5%	87.5%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
12	arg2_ICSV745	99.6%	89.1%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
13	arg2_IS8525	99.6%	89.2%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
14	arg2_Malisor84-7	99.6%	89.1%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		
15	arg2_BTx623	99.6%	89.1%	GATCACCAACACGACCAACAGTGAAACCAAGCCCCCTTCACATTGA		