

Repping et al.	Supplementary Table 2	Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.									
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>	
		sY1142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y
c1	reference	+	+	+	+	+		2	3	2	G-Y-G-G-Y
<b>One Recombination Event from Reference Architecture</b>											
c2	b1/b3 deletion	+	-	-	-	+	+	1	2	2	Y-G-G-Y
c3	b1/b3 duplication	+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c4	b1/b4 inversion <sup>c</sup>	+	+	+	+	+	+	2	3	2	G-Y-G-G-Y
c5	b2/b4 deletion	+	+	-	-	-	+	0	0	0	
c6	b2/b4 duplication	+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c7	b2/b3 inversion	+	+	+	+	+	+	2	3	2	G-Y-G-G-Y
c8	gr/gr deletion	+	+	+	-	+	+	1	2	1	G-G-Y
c9	gr/gr duplication	+	+	+	+	+	+	3	4	3	G-Y-G-Y-G-G-Y
c10	gr/rj inversion	+	+	+	+	+	+	2	3	2	G-G-Y-G-Y
<b>Total number of architectures, one homologous recombination event</b>								<b>9</b>			
<sup>a</sup> See Supplementary Methods for details on STSs.											
<sup>b</sup> See Methods and Figure 4 in main text and Supplementary Methods. Probes: R=18E8, G=RP11-336F2, Y=RP11-79J10.											
<sup>c</sup> This variant cannot be detected by the assays used.											

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<b>AZFc Arch. Num.</b>	<b>Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup></b>	<b>Parent Architectures</b>
c1	G-R-G-R-G	3 4 6 7 9 10 14 59
	<b>One Recombination Event from Reference Architecture</b>	
c2	G-R-G	1 3 4 6 7 9 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 29 31 33 40 41 42 43 44 46 47 48 49 50 51 52 53 54 57 58 59 60 62 64 6
c3	G-R-G-R-G-R-G	43
c4	G-R-G-R-G	1 14 15 34 40 41 42 65
c5		1 3 4 6 7 8 9 10 15 34 39 40 41 42 59 65
c6	G-R-G-R-G-G-R-G-R-G	1 12 13 14 15 16 17 18 19 22 23 24 25 26 27 28 29 31 32
c7	G-R-G-G-R	1 18 19 27 42 43 44 45 50 51 59 67
c8	G-R-G	1 3 6 9 10 12 13 16 17 21 22 23 24 25 26 27 28 29 30 31 32 36 37 38 39 45 47 48 49 52 53 54 55 56 57 58 60 62 63 64 67 68 69
c9	G-R-G-R-G-R-G	1 6 13 16 17 22 23 28 29 31 38 40 47 48 49 50 51 52 53 54 55
c10	G-R-G-R-G	1 24 25 32 33 34 36 37 38 54 55 63 69

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AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>	
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y
<b>Two Recombination Events from Reference Architecture</b>											
c11		+	-	+	+	+	+	3	5	4	Y-G-G-Y-G-Y-G-G-Y
c12		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c13		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c14		+	+	+	+	+	+	4	6	4	Y-G-G-Y-G-G-Y-G-G-Y
c15		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c16		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c17		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c18		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c19		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c21	(There is no architecture c20)	+	+	+	+	+	+	3	5	3	G-G-Y-G-Y-G-G-Y
c22		+	+	+	+	+	+	5	7	5	G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c23		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c24		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-Y-G-G-Y
c25		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-G-Y-G-Y
c26		+	+	+	+	+	+	4	6	4	G-G-Y-G-G-Y-Y-G-G-Y
c27		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c28		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c29		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c30		+	+	+	+	+	+	3	5	3	G-Y-G-G-Y-G-G-Y
c31		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c32		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-G-Y-G-Y
c33		+	+	+	+	+	+	2	3	2	Y-G-G-G-Y
c34		+	+	+	+	+	+	2	3	2	G-G-Y-G-Y
c35	b2/b3 deletion	+	+	-	+	+	+	1	1	1	G-Y
c36		+	+	+	+	+	+	3	5	3	G-G-Y-G-G-Y-G-Y
c37		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-G-Y-G-Y
c38		+	+	+	+	+	+	3	4	3	G-G-Y-G-Y-G-Y
c39		+	+	+	-	+	+	1	2	1	G-G-Y
c40		+	+	+	+	+	+	3	4	3	G-Y-G-Y-G-G-Y
c41		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c42		+	+	+	+	+	+	2	3	2	G-Y-G-G-Y
c43		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c44		+	+	+	+	+	+	3	5	3	G-Y-G-G-Y-G-G-Y
c45		+	+	+	+	+	+	2	3	2	G-Y-G-G-Y
c46		+	-	-	+	+	+	2	3	3	Y-G-G-Y-G-Y
c47		+	+	+	+	+	+	4	5	3	G-G-Y-G-Y-G-G-Y
c48		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c49		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c50		+	+	+	+	+	+	3	4	3	G-Y-G-Y-G-G-Y
c51		+	+	+	+	+	+	3	4	3	G-Y-G-Y-G-G-Y
c52		+	+	+	+	+	+	4	5	4	G-Y-G-Y-G-Y-G-G-Y
c53		+	+	+	+	+	+	5	6	5	G-Y-G-Y-G-Y-G-Y-G-G-Y
c54		+	+	+	+	+	+	3	4	3	G-G-Y-Y-G-G-Y
c55		+	+	+	+	+	+	3	4	3	G-Y-G-G-Y-G-Y
c56		+	+	+	-	+	+	2	4	2	G-G-Y-G-G-Y
c57		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y
c58		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c59		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c60		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
(There is no architecture c61)											
c62		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c63		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c64		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c65		+	+	+	+	+	+	3	4	2	G-Y-G-G-Y-G
c66		+	+	+	-	+	+	1	1	0	G
c67		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c68		+	+	+	+	+	+	2	3	1	G-G-G-Y
c69		+	+	+	+	+	+	3	4	2	G-G-G-Y-G-Y
<b>Total number of architectures, two homologous recombination events</b>								<b>57</b>			

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<b>AZFc Arch. Num.</b>	<b>Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup></b>	<b>Parent Architectures</b>
	<b>Two Recombination Events from Reference Architecture</b>	
c11	G-R-G-R-G-R-G	6 12 13 14 16 17 18 22 23
c12	G-R-G-R-G-R-G-G-R-G-R-G	3 6 13 60
c13	G-R-G-R-G-G-R-G-R-G-G-R-G-R-G	6
c14	G-R-G-R-G-G-R-G-R-G	6
c15	G-R-G-R-G-G-R-G-R-G	4 6 14
c16	G-R-G-R-G-G-R-G-R-G-G-R-G-R-G	6 13 17 23
c17	G-R-G-R-G-G-R-G-R-G-G-R-G-R-G-G-R-G-R-G	6 16
c18	G-R-G-R-G-G-R-G-G-R	6 19
c19	G-R-G-G-R-G-R-G-G-R	6 7
c21	G-R-G-G-R-G-R-G	6 12 13 16 17 22 23 24 28 36 44
c22	G-R-G-R-G-R-G-G-R-G-R-G	6
c23	G-R-G-R-G-G-R-G-R-G-R-G-G-R-G-R-G	6 16 17
c24	G-R-G-R-G-G-R-G-R-G	6
c25	G-R-G-R-G-G-R-G-R-G	6
c26	G-R-G-G-R-G-R-G-R-G	6
c27	G-R-G-R-G-R-G-G-R-G	6
c28	G-R-G-R-G-G-R-G-G-R-G-R-G	6 13 16 17 23
c29	G-R-G-R-G-G-R-G-R-G	6 37
c30	G-R-G-R-G-G-R-G	6
c31	G-R-G-R-G-G-R-G-R-G-R-G	6 16 17 23 49
c32	G-R-G-R-G-G-R-G-R-G	6 37
c33	G-R-G-R-G	10
c34	G-R-G-R-G	4 10
c35	G-R	7 10 33 59 63
c36	G-R-G-G-R-G-R-G	10 21 32 37
c37	G-R-G-R-G-G-R-G-R-G	10 24 25 29 32
c38	G-R-G-R-G-R-G	9 10
c39	G-R-G	4 8
c40	G-R-G-R-G-R-G	4 9 15
c41	G-R-G-R-G-R-G	3 4 65
c42	G-R-G-G-R	4 7
c43	G-R-G-G-R-G-R	3 7 59 67
c44	G-R-G-G-R-G-G-R	7 19 21
c45	G-R-G-G-R	7
c46	G-R-G-R-G	9 11 14 29 31 47 48 49 50 52 53
c47	G-R-G-R-G-R-G-R-G	3 9 12 48 60 62
c48	G-R-G-R-G-R-G-R-G-R-G	
c49	G-R-G-R-G-R-G-G-R-G-R-G-R-G	9
c50	G-R-G-R-G-G-R	9 18
c51	G-R-G-G-R-G-R	9
c52	G-R-G-R-G-R-G-R-G	9 22 31 48 49 53
c53	G-R-G-R-G-R-G-R-G-R-G	9 49 52
c54	G-R-G-R-G-R-G	9
c55	G-R-G-R-G-R-G	9
c56	G-R-G-G-R-G	8
c57	G-R-G-R-G-R-G-R-G	3
c58	G-R-G-R-G-R-G-R-G-R-G	3
c59	G-R-G-R-G-G-R	3 43
c60	G-R-G-R-G-R-G-G-R-G-R-G-R-G	
c62	G-R-G-R-G-R-G-R-G-R-G	3
c63	G-R-G-R-G-R-G	3
c64	G-R-G-R-G-R-G	3
c65	G-R-G-R-G-R-G	3
c66	G-R	3 12 47 57 58 60 62 67 68 69
c67	G-R-R-G-G-R-G	3 43
c68	G-R-G-R-G	3
c69	G-R-G-R-G-R-G	3

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		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		
<b>Three Recombination Events from Reference Architecture</b>											
c70		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y
c71		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c72		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c73		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c74		+	+	-	+	+	+	2	2	2	Y-G-G-Y
c75		+	+	+	+	+	+	4	6	2	G-G-G-G-Y-G-G-Y
c76		+	+	+	+	+	+	5	7	3	G-G-Y-G-G-G-Y-G-G-Y
c77		+	+	+	+	+	+	3	4	2	G-Y-G-G-G-Y
c78		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y
c79		+	+	+	+	+	+	3	4	2	G-Y-G-G-Y-G
c80		+	+	+	+	-	+	1	1	0	G
c81		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c82		+	+	+	+	+	+	2	3	1	G-G-G-Y
c83		+	+	+	+	+	+	4	5	3	G-G-Y-G-Y-G-G-Y
c84		+	+	+	+	+	+	3	4	2	G-G-G-Y-G-Y
c85		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y
c86		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c87		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c88		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c89		+	+	+	+	+	+	5	7	3	G-G-Y-G-G-G-Y-G-G-Y
c90		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c91		+	+	+	+	+	+	3	4	2	G-Y-G-G-G-Y
c92		+	+	+	+	+	+	3	4	2	G-Y-G-G-Y-G
c93		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c94		+	+	+	+	+	+	2	2	1	G-G-Y
c95		+	+	+	+	+	+	4	6	3	G-G-Y-G-G-Y-G-G-Y
c96		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c97		+	-	+	-	+	+	2	4	3	Y-G-G-Y-G-G-Y
c98		+	+	+	+	+	+	5	8	4	G-Y-G-G-G-Y-G-G-Y-G-G-Y
c99		+	+	+	+	+	+	3	5	3	G-Y-G-G-Y-G-G-Y
c100		+	+	+	+	+	+	6	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c101		+	+	+	+	+	+	3	5	3	G-Y-G-G-Y-G-G-Y
c102		+	+	+	+	+	+	4	7	4	G-Y-G-G-Y-G-G-Y-G-G-Y
c103		+	+	+	+	+	+	5	9	5	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c104		+	+	+	+	+	+	3	5	3	G-Y-G-G-Y-G-G-Y
c105		+	+	+	+	+	+	3	5	3	G-Y-G-G-Y-G-G-Y
c106		+	+	+	+	+	+	3	5	3	G-Y-G-G-Y-G-G-Y
c107		+	-	+	+	+	+	3	5	4	Y-G-G-Y-G-Y-G-G-Y
c108		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c109		+	+	+	+	+	+	4	6	4	Y-G-G-Y-G-G-Y-G-G-Y
c110		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c111		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c112		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c113		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c114		+	+	+	+	+	+	7	11	7	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c115		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c116		+	+	+	+	+	+	4	6	4	Y-G-G-Y-G-G-Y-G-G-Y
c117		+	+	+	+	+	+	4	6	4	G-Y-G-Y-G-G-Y-G-G-Y
c118		+	+	+	+	+	+	4	6	4	G-Y-G-Y-G-G-Y-G-G-Y
c119		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-Y-G-G-Y
c120		+	+	+	+	+	+	3	4	3	G-Y-G-G-Y-G-Y
c121		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y
c122		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c123		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c124		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c125		+	+	+	+	+	+	4	6	4	Y-G-G-Y-G-G-Y-G-G-Y
c126		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c127		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c128		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c129		+	+	+	+	+	+	3	4	3	G-Y-G-Y-G-G-Y
c130		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c131		+	+	+	+	+	+	6	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c132		+	+	+	+	+	+	7	11	7	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y

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<b>AZFc Arch. Num.</b>	<b>Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup></b>	<b>Parent Architectures</b>
	<b>Three Recombination Events from Reference Architecture</b>	
c70	G-R-G-R-G-R-G-R	57 59
c71	G-R-G-R-G-G-R-R-G-G-R	59
c72	G-R-G-R-G-G-R	41 59
c73	G-R-G-R-G-G-R-G-R-G-R-G-R	59
c74	G-R-G-R	59 64
c75	G-R-G-R-G-G-R-G-G-R	59
c76	G-R-G-R-G-G-R-G-R-G-G-R	59
c77	G-R-G-G-R-G-R	59
c78	G-R-G-R-G-R-G-G-R	57 59
c79	G-R-G-R-G-G-R	59
c80	G-R	43 65
c81	G-R-G-R-G-G-R-G-R-G-G-R	12 59
c82	G-R-G-G-R	59 68
c83	G-R-G-R-G-R-G-G-R	47 59
c84	G-R-G-R-G-G-R	59 69
c85	G-R-G-G-R-G-R-G-R	43
c86	G-R-G-G-R-G-R-G-R-G-R	58
c87	G-R-G-G-R-G-R	42 43
c88	G-R-G-G-R-G-R-G-R-G-R-G-R	43 60
c89	G-R-G-G-R-G-R-G-R-G-R	43
c90	G-R-G-G-R-G-R	43
c91	G-R-G-R-G-G-R	43
c92	R-G-G-R-G-G-R	43
c93	G-R-G-G-R-G-R-G-G-R-G-R	19 43
c94	G-R-G-R	43 63
c95	G-R-G-G-R-G-G-R-G-R	43 44
c96	G-R-G-G-R-G-R	43
c97	G-R-G-G-R-G	44
c98	G-R-G-G-R-G-G-R-G-R-G-G-R	44
c99	G-R-G-G-R-G-G-R	42 44
c100	G-R-G-G-R-G-G-R-G-R-G-G-R-G-G-R	44
c101	G-R-G-R-G-G-R-G	27 29 30 36 44
c102	G-R-G-G-R-G-G-R-G-G-R	44
c103	G-R-G-G-R-G-G-R-G-R-G-G-R	44
c104	G-R-G-G-R-G-G-R	44
c105	G-R-G-G-R-G-G-R	44 45
c106	G-R-G-G-R-G-G-R	18 30 44
c107	G-R-G-R-G-G-R-G	11 14 15 19 27
c108	G-R-G-G-R-G-R-G-G-R-G-R-G-R-G-G-R	13
c109	G-R-G-G-R-R-G-G-R-G	19
c110	G-R-G-G-R-G-R-G-G-R	15 19 42
c111	G-R-G-G-R-G-R-G-G-R-G-R-G-G-R	16 19
c112	G-R-G-G-R-G-R-G-G-R-G-R-G-R-G-G-R	17 19
c113	G-R-G-G-R-G-R-G-G-R-G-G-R	19 28
c114	G-R-G-G-R-G-R-G-G-R-G-R-G-R-G-G-R	19
c115	G-R-G-G-R-G-R-G-G-R	19 29
c116	G-R-G-G-R-G-G-R-G-R	19 26
c117	G-R-G-G-R-G-R-G-G-R	19
c118	G-R-G-G-R-G-R-G-G-R	19 24
c119	G-R-G-G-R-G-R-G-R-G-G-R	19 22
c120	G-R-G-R-G-G-R	19 25 50 55
c121	G-R-G-G-R-G-G-R-G-R-G-G-R	19
c122	G-R-G-G-R-G-R-G-G-R	19
c123	G-R-G-R-G-G-R-G-G-R-G-R	18
c124	G-R-G-R-G-G-R-G-G-R-R-G-G-R-G-G-R	18
c125	G-R-G-G-R-G-R-G-R-G	14 18
c126	G-R-G-R-G-G-R-G-G-R	15 18
c127	G-R-G-R-G-G-R-G-G-R-G-R-G-G-R	16 18
c128	G-R-G-R-G-G-R-G-G-R-G-R-G-R-G-G-R-G-G-R	18
c129	G-R-G-R-G-G-R	18 24 50 51
c130	G-R-G-R-G-G-R-G-G-R-G-G-R	18
c131	G-R-G-R-G-G-R-G-G-R-G-G-R-G-G-R	18
c132	G-R-G-R-G-G-R-G-G-R-G-R-G-G-R-G-G-R	18

Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.									
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>	
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y
c133		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c134		+	+	+	+	+	+	4	6	4	G-Y-G-Y-G-G-Y-G-G-Y
c135		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c136		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c137		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c138		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c139		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-G-Y-G-Y
c140		+	+	+	+	+	+	4	5	3	G-G-Y-G-Y-G-G-Y
c141		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c142		+	+	+	+	+	+	3	4	3	G-Y-G-Y-G-G-Y
c143		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c144		+	+	+	+	+	+	5	7	5	G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c145		+	+	+	+	+	+	3	4	3	G-Y-G-Y-G-G-Y
c146		+	+	+	+	+	+	4	5	4	G-Y-G-Y-G-Y-G-G-Y
c147		+	+	-	+	+	+	1	1	1	G-Y
c148		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c149		+	+	+	+	+	+	3	4	3	Y-G-G-Y-G-G-Y
c150		+	+	+	+	+	+	3	4	3	G-Y-G-Y-G-G-Y
c151		+	+	+	+	+	+	4	5	4	G-Y-G-Y-G-Y-G-G-Y
c152		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c153		+	+	+	+	+	+	5	7	5	G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c154		+	+	+	+	+	+	3	4	3	Y-G-G-Y-G-G-Y
c155		+	+	+	+	+	+	4	6	4	G-Y-G-Y-G-G-Y-G-G-Y
c156		+	+	+	+	+	+	2	3	2	Y-G-G-G-Y
c157		+	+	+	+	+	+	2	3	2	G-Y-G-G-Y
c158		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y
c159		+	+	+	+	+	+	4	6	2	G-G-G-G-Y-G-G-Y
c160		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c161		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c162		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c163		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c164		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c165		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y
c166		+	+	+	-	+	+	2	4	2	G-G-Y-G-G-Y
c167		+	+	+	+	+	+	4	4	2	G-G-Y-G-G-Y
c168		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c169		+	+	+	-	-	+	1	2	0	G-G
c170		+	+	+	+	+	+	5	6	4	G-G-Y-G-G-Y-Y-G-G-Y
c171		+	+	+	+	+	+	2	3	1	G-G-G-Y
c172		+	+	+	+	+	+	4	5	3	G-G-Y-G-Y-G-G-Y
c173		+	+	+	+	+	+	3	4	2	G-G-G-Y-G-Y
c174		+	-	-	+	+	+	3	4	4	Y-G-G-Y-Y-G-G-Y
c175		+	+	+	+	+	+	5	8	4	G-G-G-G-Y-G-G-Y-Y-G-G-Y
c176		+	+	+	+	+	+	7	10	6	G-G-Y-G-G-Y-G-G-Y-G-G-Y-Y-G-G-Y
c177		+	+	+	+	+	+	4	6	4	Y-G-G-Y-G-G-Y-G-G-Y
c178		+	+	+	+	+	+	4	6	4	G-G-Y-G-G-Y-Y-G-G-Y
c179		+	+	+	+	+	+	6	10	6	G-G-Y-G-G-Y-G-G-Y-G-G-Y-Y-G-G-Y
c180		+	+	+	+	+	+	8	12	8	G-G-Y-G-G-Y-Y-G-G-Y-G-G-Y-G-G-Y-Y-G-G-Y
c181		+	+	+	+	+	+	5	8	5	G-G-Y-G-G-Y-G-G-Y-Y-G-G-Y
c182		+	+	+	+	+	+	7	10	7	G-G-Y-G-G-Y-Y-G-G-Y-G-G-Y-Y-G-G-Y
c183		+	+	+	+	+	+	4	6	4	G-G-Y-G-G-Y-Y-G-G-Y
c184		+	+	+	+	+	+	4	6	4	G-G-Y-Y-G-G-Y-G-G-Y
c185		+	+	+	+	+	+	6	9	6	G-G-Y-G-G-Y-G-Y-G-G-Y-Y-G-G-Y
c186		+	+	+	+	+	+	6	8	6	G-G-Y-G-G-Y-Y-G-G-Y-Y-G-G-Y
c187		+	+	+	+	+	+	3	5	3	G-G-Y-G-Y-G-G-Y
c188		+	+	+	+	+	+	5	7	5	G-G-Y-G-G-Y-G-Y-Y-G-G-Y
c189		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-Y-G-G-Y
c190		+	+	+	+	+	+	3	5	3	G-G-Y-G-G-Y-G-Y
c191		+	+	+	+	+	+	5	7	5	G-G-Y-G-G-Y-Y-G-Y-G-G-Y
c192		+	+	+	+	+	+	4	6	4	G-G-Y-G-G-Y-G-Y-G-Y
c193		+	+	+	+	+	+	5	7	3	G-G-Y-G-G-Y-G-G-Y
c194		+	+	+	+	+	+	3	4	2	Y-G-G-G-G-Y
c195		+	+	+	+	+	+	3	4	2	Y-G-G-G-G-Y
c196		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c197		+	+	+	+	+	+	4	6	3	G-G-Y-G-G-Y-G-G-Y
c198		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y

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<b>AZFc Arch.</b>		
<b>Num.</b>	<b>Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup></b>	<b>Parent Architectures</b>
c133	G-R-G-R-G-R-G-G-R	18
c134	G-R-G-R-G-R-G-R-G-R	18
c135	G-R-G-R-G-R-G-R-G-R-G-R	16 18
c136	G-R-G-R-G-R-G-R-G-R-G-R	18 28
c137	G-R-G-R-G-R-G-G-R	18 29 50
c138	G-R-G-R-G-R-G-R-G-G-R	18 31
c139	G-R-G-R-G-R-G-R-G-R	18 32
c140	G-R-G-R-G-R-G-R	47
c141	G-R-G-R-G-R-R-G-R	50
c142	G-R-G-R-G-R	40 50
c143	G-R-G-R-G-R-G-R-G-R-G-R	50
c144	G-R-G-R-G-R-G-R-G-G-R	50
c145	G-R-G-R-G-R	45 50 51
c146	G-R-G-R-G-R-G-G-R	50 52
c147	G-R	34 35 42
c148	G-R-G-R-G-R-G-R-G-R	48
c149	G-R-R-G-R-G	51
c150	G-R-G-R-G-R	40 51
c151	G-R-G-R-G-R-G-R	51 52
c152	G-R-G-R-G-R-G-R-G-R-G-R	49 51
c153	G-R-G-R-G-R-G-R-G-R	31 51
c154	G-R-G-R-G-R	51 54
c155	G-R-G-R-G-R-G-R-G-R	51
c156	G-R-G-R-G	45
c157	G-R-G-R-G	33
c158	G-R-G-R-G-R-G-R-G-R	45
c159	G-R-G-R-G-R-G-R-G	64
c160	G-R-G-R-G-R-G-R-G	64
c161	G-R-G-R-G-R-G	41 64
c162	G-R-G-R-G-R-G-R-G-R-G	64
c163	G-R-G-R-G-R-G-R-G-R-G	64
c164	G-R-G-R-G-R-G	63 64
c165	G-R-G-R-G-R-G-R-G	57 64
c166	G-R-G-R-G	26 27 56 64 67
c167	G-R-G-R-G-R-G	64
c168	G-R-G-R-G-R-G	64
c169	G-R-G	64 65
c170	G-R-G-R-G-R-G-R-G	64
c171	G-R-G-R-G	63 64 68
c172	G-R-G-R-G-R-G-R-G	47 64
c173	G-R-G-R-G-R-G	64 69
c174	G-R-G-R-G-R-G	14 26
c175	G-R-G-R-G-R-G-R-G-R-G	26
c176	G-R-G-R-G-R-G-R-G-R-G-R-G	26
c177	G-R-G-R-G-R-G-R-G	26
c178	G-R-G-R-G-R-G-R-G	15 26
c179	G-R-G-R-G-R-G-R-G-R-G-R-G	26
c180	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	26
c181	G-R-G-R-G-R-G-R-G-R-G	26 28
c182	G-R-G-R-G-R-G-R-G-R-G-R-G	26
c183	G-R-G-R-G-R-G-R-G	26 29 54
c184	G-R-G-R-G-R-G-R-G	25 26
c185	G-R-G-R-G-R-G-R-G-R-G-R-G	16 26
c186	G-R-G-R-G-R-G-R-G-R-G	26
c187	G-R-G-R-G-R-G	21 26 29
c188	G-R-G-R-G-R-G-R-G-R-G	22 26
c189	G-R-G-R-G-R-G-R-G	24 26
c190	G-R-G-R-G-R-G	25 26 30 36
c191	G-R-G-R-G-R-G-R-G-R-G	26 31
c192	G-R-G-R-G-R-G-R-G	26 32
c193	G-R-G-R-G-R-G-R-G-R-G	63
c194	G-R-G-R-G-R-G	33 63 69
c195	G-R-G-R-G-R-G	63 69
c196	G-R-G-R-G-R-G	41 63
c197	G-R-G-R-G-R-G-R-G	63
c198	G-R-G-R-G-R-G-R-G-R-G	63



Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.									
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>	
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y
c199		+	+	+	+	+	+	4	5	3	G-G-Y-G-Y-G-G-Y
c200		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c201		+	+	+	+	+	+	4	5	2	G-G-Y-G-G-G-Y
c202		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c203		+	+	+	+	+	+	3	4	2	G-G-Y-G-Y-G
c204		+	+	+	+	+	+	2	3	1	G-G-Y-G
c205		+	+	+	+	+	+	4	5	3	G-G-Y-G-G-Y-G-Y
c206		+	-	-	+	+	+	2	3	3	Y-G-Y-G-G-Y
c207		+	+	+	+	+	+	6	9	5	G-G-Y-G-G-G-Y-G-Y-G-G-Y-G-Y
c208		+	+	+	+	+	+	4	6	4	Y-G-Y-G-G-Y-G-G-G-Y
c209		+	+	+	+	+	+	4	6	4	Y-G-G-G-Y-G-Y-G-G-Y
c210		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-G-Y-G-Y
c211		+	+	+	+	+	+	5	8	5	G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y
c212		+	+	+	+	+	+	7	11	7	G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y
c213		+	+	+	+	+	+	8	12	8	G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y
c214		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-G-Y-G-Y
c215		+	+	+	+	+	+	6	9	6	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y
c216		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-G-Y-G-Y
c217		+	+	+	+	+	+	5	7	5	G-G-Y-G-Y-G-Y-G-G-Y-G-Y
c218		+	+	+	+	+	+	7	10	7	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y
c219		+	+	+	+	+	+	5	8	5	G-G-Y-G-Y-G-G-Y-G-G-Y-G-Y
c220		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-Y-G-G-Y
c221		+	+	+	+	+	+	3	5	3	G-G-Y-G-Y-G-G-Y
c222		+	+	+	+	+	+	5	7	5	G-G-Y-G-Y-G-G-Y-G-Y-G-Y
c223		+	+	+	+	+	+	3	4	3	Y-G-Y-G-G-G-Y
c224		+	+	+	+	+	+	3	4	3	Y-G-G-G-Y-G-Y
c225		+	+	+	+	+	+	3	4	3	G-G-Y-G-Y-G-Y
c226		+	+	+	+	+	+	4	6	4	G-G-Y-G-G-Y-G-Y-G-Y
c227		+	+	+	+	+	+	5	7	5	G-G-Y-G-Y-G-G-Y-G-Y-G-Y
c228		+	+	+	+	+	+	6	8	6	G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y
c229		+	+	+	+	+	+	4	5	4	G-G-Y-G-Y-G-Y-G-Y
c230		+	+	+	+	+	+	5	6	5	G-G-Y-G-Y-G-Y-G-Y-G-Y
c231		+	+	+	+	+	+	4	6	4	Y-G-Y-G-G-Y-G-G-G-Y
c232		+	+	+	+	+	+	4	6	4	Y-G-Y-G-G-G-Y-G-Y
c233		+	+	+	+	+	+	4	6	4	Y-G-G-G-Y-G-Y-G-G-Y
c234		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-G-Y-G-Y
c235		+	+	+	+	+	+	3	4	3	G-Y-G-G-Y-G-Y
c236		+	+	+	+	+	+	5	8	5	G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y
c237		+	+	+	+	+	+	6	9	6	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y
c238		+	+	+	+	+	+	7	11	7	G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y
c239		+	+	+	+	+	+	8	12	8	G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y
c240		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-G-Y-G-Y
c241		+	+	+	+	+	+	5	7	5	G-G-Y-G-Y-G-Y-G-G-Y-G-Y
c242		+	+	+	+	+	+	7	10	7	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y
c243		+	+	+	+	+	+	5	8	5	G-G-Y-G-Y-G-G-Y-G-G-Y-G-Y
c244		+	+	+	+	+	+	4	6	4	G-G-Y-G-G-Y-G-G-Y
c245		+	+	+	+	+	+	3	5	3	G-G-Y-G-Y-G-G-Y
c246		+	+	+	+	+	+	7	10	6	G-G-Y-G-Y-G-G-G-Y-G-Y-G-Y-G-G-Y
c247		+	+	+	+	+	+	4	6	4	Y-G-G-Y-G-Y-G-G-G-Y
c248		+	+	+	+	+	+	4	6	4	Y-G-G-Y-G-G-G-Y-G-Y
c249		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-Y-G-G-Y
c250		+	+	+	+	+	+	5	8	5	G-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c251		+	+	+	+	+	+	6	9	6	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c252		+	+	+	+	+	+	8	12	8	G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y-G-Y
c253		+	+	+	+	+	+	7	10	7	G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y
c254		+	+	+	+	+	+	5	7	5	G-G-Y-G-Y-G-Y-G-Y-G-G-Y
c255		+	+	+	+	+	+	5	8	5	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c256		+	+	+	+	+	+	6	9	6	G-G-Y-G-Y-G-Y-G-G-Y-G-Y
c257		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-Y-G-G-Y
c258		+	+	+	+	+	+	5	7	5	G-G-Y-G-Y-G-Y-G-Y-G-G-Y
c259		+	+	+	+	+	+	5	6	4	G-G-Y-G-G-Y-Y-G-G-Y
c260		+	+	+	+	+	+	3	4	3	Y-G-G-Y-G-G-Y
c261		+	+	+	+	+	+	3	4	3	G-G-Y-Y-G-G-Y
c262		+	+	+	+	+	+	6	8	6	G-G-Y-Y-G-G-Y-G-G-Y-Y-G-G-Y
c263		+	+	+	+	+	+	5	6	5	G-G-Y-Y-G-G-Y-Y-G-G-Y
c264		+	+	+	+	+	+	4	5	4	G-G-Y-G-Y-Y-G-G-Y

Repping et al.		
<b>AZFc Arch.</b>		
<b>Num.</b>	<b>Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup></b>	<b>Parent Architectures</b>
c199	G-R-G-R-G-R-G	47 63
c200	G-R-G-R-G-R-G-R-G	62 63
c201	G-R-G-R-G-R-G	57 63
c202	G-R-G-R-R-G	63 67
c203	G-R-G-R-G-R	63
c204	G-R-G-R-G	63 65
c205	G-R-G-R-G-R-G	63
c206	G-R-G-R-G	14 25 40 46 55
c207	G-R-G-R-G-G-R-G-R-G-G-R-G-R-G	25
c208	G-R-G-R-G-G-R-G-R-G	25
c209	G-R-G-R-G-R-G-R-G	25
c210	G-R-G-R-G-G-R-G-R-G	15 25
c211	G-R-G-R-G-R-G-G-R-G-R-G	25
c212	G-R-G-R-G-G-R-G-G-R-G-G-R-G-R-G	25
c213	G-R-G-R-G-G-R-G-R-G-G-R-G-R-G-G-R-G-R-G	25
c214	G-R-G-R-G-G-R-G-R-G	25 29 32
c215	G-R-G-R-G-G-R-G-R-G-G-R-G-R-G	16 25
c216	G-R-G-R-G-R-G-R-G-R-G	25 27
c217	G-R-G-R-G-R-G-G-R-G-R-G	25 31
c218	G-R-G-R-G-G-R-G-R-G-R-G-G-R-G-R-G	23 25
c219	G-R-G-R-G-G-R-G-G-R-G-R-G	25 28
c220	G-R-G-R-G-G-R-G-R-G	24 25 29
c221	G-R-G-R-G-G-R-G	21 25 27
c222	G-R-G-R-G-G-R-G-R-G-R-G	22 25
c223	G-R-G-R-G-R-G	33 38
c224	G-R-G-R-G-R-G	38
c225	G-R-G-R-G-R-G	34 38 40
c226	G-R-G-R-G-R-G-R-G	36 38
c227	G-R-G-R-G-G-R-G-R-G-R-G	37 38
c228	G-R-G-R-G-R-G-G-R-G-R-G-R-G	38
c229	G-R-G-R-G-R-G-R-G	38 52
c230	G-R-G-R-G-R-G-R-G-R-G	38 53
c231	G-R-G-R-G-G-R-G-R-G	37
c232	G-R-G-R-G-G-R-G-R-G	37
c233	G-R-G-R-G-R-G-R-G	37
c234	G-R-G-R-G-G-R-G-R-G	34 37
c235	G-R-G-R-G-R-G	37
c236	G-R-G-R-G-R-G-G-R-G-R-G	36 37
c237	G-R-G-R-G-G-R-G-G-R-G-R-G	37
c238	G-R-G-R-G-G-R-G-G-R-G-R-G-G-R-G-R-G	37
c239	G-R-G-R-G-G-R-G-R-G-G-R-G-R-G-G-R-G-R-G	37
c240	G-R-G-R-G-R-G-R-G	37
c241	G-R-G-R-G-R-G-G-R-G-R-G	37
c242	G-R-G-R-G-G-R-G-G-R-G-G-R-G-R-G	37
c243	G-R-G-R-G-G-R-G-G-R-G-R-G	37
c244	G-R-G-R-G-R-G-G-R-G	37
c245	G-R-G-R-G-R-G	24 30 37
c246	G-R-G-R-G-G-R-G-R-G-R-G-G-R-G-R-G	24
c247	G-R-G-R-G-G-R-G-R-G	24
c248	G-R-G-R-G-G-R-G-R-G	14 24
c249	G-R-G-R-G-G-R-G-R-G	15 24
c250	G-R-G-R-G-R-G-R-G-G-R-G-R-G	24
c251	G-R-G-R-G-G-R-G-G-R-G-R-G	24
c252	G-R-G-R-G-G-R-G-R-G-G-R-G-R-G-G-R-G-R-G	24
c253	G-R-G-R-G-G-R-G-R-G-R-G-G-R-G-R-G	24
c254	G-R-G-R-G-G-R-G-G-R-G-R-G	22 24
c255	G-R-G-R-G-G-R-G-G-R-G-R-G	24 28
c256	G-R-G-R-G-G-R-G-G-R-G-R-G	16 24
c257	G-R-G-R-G-R-G-G-R-G	24 27
c258	G-R-G-R-G-G-R-G-R-G-R-G	24 31
c259	G-R-G-R-G-R-G-R-G-R-G	54
c260	G-R-G-R-G-R-G	54
c261	G-R-G-R-G-R-G	40 54
c262	G-R-G-R-G-R-G-G-R-G-R-G-R-G	54
c263	G-R-G-R-G-R-G-R-G-R-G	54
c264	G-R-G-R-G-R-G-R-G	52 54

Repping et al. Supplementary Table 2		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.									
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>	
		sY1142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y
c265		+	+	+	+	+	+	4	5	4	G-G-Y-Y-G-Y-G-G-Y
c266		+	+	+	-	+	+	2	4	2	Y-G-G-G-G-Y
c267		+	+	+	-	+	+	2	4	2	G-G-Y-G-G-Y
c268		+	+	+	-	+	+	3	6	3	G-G-Y-G-G-Y-G-G-Y
c269		+	+	+	-	+	+	4	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c270		+	+	+	+	+	+	3	5	3	Y-G-Y-G-G-G-G-Y
c271		+	+	+	+	+	+	3	5	3	Y-G-G-G-Y-G-G-Y
c272		+	+	+	+	+	+	3	5	3	G-G-Y-G-G-Y-G-Y
c273		+	+	+	+	+	+	4	7	4	G-G-Y-G-G-Y-G-G-Y-G-Y
c274		+	+	+	+	+	+	5	9	5	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y
c275		+	+	+	+	+	+	6	10	6	G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-Y
c276		+	+	+	+	+	+	5	8	4	G-G-Y-G-G-G-Y-G-Y-G-G-Y
c277		+	+	+	+	+	+	3	5	3	Y-G-G-Y-G-G-G-Y
c278		+	+	+	+	+	+	3	5	3	G-G-Y-G-Y-G-G-Y
c279		+	+	+	+	+	+	4	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c280		+	+	+	+	+	+	6	10	6	G-G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c281		+	+	+	+	+	+	5	8	5	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c282		+	+	+	+	+	+	4	6	4	G-G-Y-G-Y-G-Y-G-G-Y
c283		+	+	+	-	+	+	2	2	0	G-G
c284		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y
c285		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c286		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c287		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c288		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c289		+	+	+	+	+	+	4	4	2	G-G-Y-G-G-Y
c290		+	+	+	+	+	+	3	4	2	G-Y-G-G-Y-G
c291		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y
c292		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c293		+	+	+	+	+	+	2	2	1	G-G-Y
c294		+	+	+	+	+	+	4	6	3	G-G-Y-G-G-Y-G-G-Y
c295		+	+	+	+	+	+	3	4	2	G-G-Y-G-G-Y
c296		+	+	+	+	+	+	3	4	1	G-G-G-G-Y
c297		+	+	+	+	+	+	2	3	1	G-G-G-Y
c298		+	+	+	+	+	+	4	6	2	G-G-G-Y-G-G-G-Y
c299		+	+	+	+	+	+	2	3	1	G-Y-G-G
c300		+	+	+	+	+	+	3	5	2	G-G-G-Y-G-G-Y
c301		+	+	+	+	+	+	4	5	2	G-G-G-G-Y-G-Y
c302		+	+	+	+	+	+	3	4	2	G-G-G-Y-G-Y
c303		+	+	+	+	+	+	5	7	3	G-G-G-Y-G-G-G-Y-G-Y
c304		+	+	+	+	+	+	6	8	4	G-G-G-Y-G-Y-G-G-G-Y-G-Y
c305		+	+	+	+	+	+	5	6	3	G-G-G-Y-G-G-Y-G-Y
c306		+	+	+	+	+	+	3	4	2	G-Y-G-Y-G-G
c307		+	+	+	+	+	+	4	6	3	G-G-G-Y-G-G-Y-G-Y
c308		+	+	+	+	+	+	5	7	4	G-G-G-Y-G-Y-G-G-Y-G-Y
c309		+	+	+	+	+	+	4	5	3	G-G-G-Y-G-Y-G-Y
c310		+	+	+	+	+	+	6	7	2	G-G-G-G-G-Y-G-G-Y
c311		+	+	+	+	+	+	7	8	2	G-G-G-G-G-Y-G-G-Y
c312		+	+	+	+	+	+	8	9	2	G-G-G-G-G-G-Y-G-G-Y
c313		+	+	+	+	+	+	9	10	2	G-G-G-G-G-G-G-Y-G-G-Y
c314		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c315		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c316		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c317		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c318		+	+	+	+	+	+	10	12	4	G-G-G-G-Y-G-G-Y-G-G-G-Y-G-G-Y
c319		+	+	+	+	+	+	9	10	3	G-G-G-G-Y-G-G-G-Y-G-G-Y
c320		+	+	+	+	+	+	5	6	2	G-G-Y-G-G-G-G-Y
c321		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c322		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c323		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c324		+	+	+	+	+	+	5	6	2	G-Y-G-G-Y-G-G-G
c325		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c326		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c327		+	+	+	+	+	+	9	11	4	G-G-G-G-Y-G-G-Y-G-G-G-Y-G-G-Y
c328		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y
c329		+	+	+	+	+	+	8	9	3	G-G-G-G-Y-G-G-G-Y-G-G-Y
c330		+	+	+	+	+	+	5	6	2	G-G-G-Y-G-G-G-Y

Repping et al.		
<b>AZFc Arch.</b>		
<b>Num.</b>	<b>Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup></b>	<b>Parent Architectures</b>
c265	G-R-G-R-G-R-G	52 54
c266	G-R-G-R-G	56
c267	G-R-G-R-G	39 56
c268	G-R-G-R-G-G-R-G	56
c269	G-R-G-R-G-G-R-G-G-R-G	56
c270	G-R-G-R-G-R-G	36
c271	G-R-G-R-G-R-G	33 36
c272	G-R-G-R-G-G-R-G	34 36
c273	G-R-G-R-G-G-R-G-R-G	36
c274	G-R-G-R-G-G-R-G-G-R-G	36
c275	G-R-G-R-G-R-G-G-R-G-G-R-G	36
c276	G-R-G-R-G-R-G-G-R-G-R-G	21
c277	G-R-G-R-G-R-G	14 21
c278	G-R-G-R-G-G-R-G	15 21
c279	G-R-G-R-G-G-R-G-R-G	21 28
c280	G-R-G-R-G-R-G-G-R-G-G-R-G	21
c281	G-R-G-R-G-R-G-G-R-G-R-G	16 17 21
c282	G-R-G-R-G-R-G-R-G	21 31 49
c283	G-R-G-R	57 58 66
c284	G-R-G-R-R-G-G-R-G	57 67
c285	G-R-R-G-G-R-R-G-G-R-G	67
c286	G-R-G-G-R-R-G	41 67
c287	G-R-R-G-G-R-G-G-R-R-G-G-R-G	67
c288	G-R-R-G-G-R-R-G-G-R-G	67
c289	G-R-R-R-G-G-R-G	67
c290	G-R-G-R-G-G-R	13
c291	G-R-R-G-R-G-G-R-G	67
c292	G-R-R-G-G-R-G-G-G-R-G	12 67
c293	G-R-R-G	67 69
c294	G-R-R-G-G-R-G-G-R-G	67
c295	G-R-R-G-G-R-G	67
c296	G-R-G-R-G-R-G	57 58 68
c297	G-R-G-R-G	41 68
c298	G-R-G-R-G-G-R-G-R-G	68
c299	G-R-G-R-G	65 68
c300	G-R-G-R-G-G-R-G	68
c301	G-R-G-R-G-R-G-R-G	57 69
c302	G-R-G-R-G-R-G	41 69
c303	G-R-G-R-G-G-R-G-G-R-G	69
c304	G-R-G-R-G-R-G-G-R-G-R-G	69
c305	G-R-G-R-G-R-G-G-R-G	69
c306	G-R-G-R-G-R-G	65 69
c307	G-R-G-R-G-G-R-G-R-G	69
c308	G-R-G-R-G-R-G-G-R-G-R-G	69
c309	G-R-G-R-G-R-G-R-G	47 69
c310	G-R-G-R-G-R-G-R-G-R-G-R-G	57 58
c311	G-R-G-R-G-R-G-R-G-R-G-R-G	57 58
c312	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	58
c313	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	58
c314	G-R-G-R-G-R-G-R-G-G-R	58
c315	G-R-G-R-G-R-G-G-R-G-R	58
c316	G-R-G-R-G-G-R-G-R-G-R	58
c317	G-R-G-R-G-R-G-G-R-G	41 58
c318	G-R-G-R-G-R-G-R-G-G-R-G-R-G-R-G-R-G	58
c319	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	58
c320	G-R-G-R-G-R-G-R-G-R-G	58
c321	G-R-G-R-G-R-G-R-G-R-G	58
c322	G-R-G-R-G-R-G-R-G-R-G	58
c323	G-R-G-R-G-R-G-R-G-R-G	58
c324	G-R-G-R-G-R-G-R-G-R-G	58
c325	G-R-R-G-G-R-G-R-G-R-G	58
c326	G-R-R-G-R-G-G-R-G-R-G	58
c327	G-R-G-R-G-R-G-R-G-R-G-G-R-G-R-G-R-G	58
c328	G-R-R-G-R-G-R-G-G-R-G	58
c329	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	58
c330	G-R-G-R-G-R-G-R-G-R-G	58

Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.										
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>		
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y	
c331		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y	
c332		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y	
c333		+	+	+	+	+	+	5	6	2	G-G-Y-G-G-Y-G-G	
c334		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y	
c335		+	+	+	+	+	+	8	10	4	G-G-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c336		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y	
c337		+	+	+	+	+	+	7	8	3	G-G-G-G-Y-G-G-Y-G-G-Y	
c338		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y	
c339		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y	
c340		+	+	+	+	+	+	5	6	2	G-G-G-Y-G-G-Y-G	
c341		+	+	+	+	-	+	3	3	0	G-G-G	
c342		+	+	+	+	+	+	7	9	4	G-G-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c343		+	+	+	+	+	+	5	6	2	G-G-G-G-Y-G-G-Y	
c344		+	+	+	+	+	+	4	5	1	G-G-G-G-G-Y	
c345		+	+	+	+	+	+	6	7	3	G-G-G-G-Y-G-Y-G-G-Y	
c346		+	+	+	+	+	+	5	6	2	G-G-G-G-G-Y-G-Y	
c347		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y	
c348		+	+	+	+	+	+	8	10	4	G-G-G-Y-G-G-Y-G-G-G-Y-G-G-Y	
c349		+	+	+	+	+	+	7	8	3	G-G-G-Y-G-G-G-Y-G-G-Y	
c350		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y	
c351		+	+	+	+	+	+	4	5	2	G-Y-G-G-Y-G-G	
c352		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y	
c353		+	+	+	+	+	+	7	9	4	G-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c354		+	+	+	+	+	+	6	7	3	G-G-G-Y-G-G-Y-G-G-Y	
c355		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y	
c356		+	+	+	+	+	+	4	5	2	G-G-G-Y-G-G-Y	
c357		+	+	+	+	+	+	4	5	2	G-G-Y-G-G-Y-G	
c358		+	+	+	+	+	+	6	8	4	G-G-G-Y-G-G-Y-G-Y-G-G-Y	
c359		+	+	+	+	+	+	5	6	3	G-G-G-Y-G-Y-G-G-Y	
c360		+	+	+	+	+	+	5	7	4	G-Y-G-G-Y-G-G-Y-G-G-Y	
c361		+	+	+	+	+	+	10	13	6	G-G-Y-G-G-Y-G-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c362		+	+	+	+	+	+	11	14	6	G-G-Y-G-G-Y-G-G-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c363		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c364		+	+	+	+	+	+	6	8	4	Y-G-G-Y-G-G-G-Y-G-G-Y	
c365		+	+	+	+	+	+	6	8	4	G-Y-G-G-Y-G-G-G-Y-G-G-Y	
c366		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c367		+	+	+	+	+	+	9	12	6	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c368		+	+	+	+	+	+	12	16	8	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c369		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c370		+	+	+	+	+	+	4	6	3	G-G-Y-G-G-Y-G-G-Y	
c371		+	+	+	+	+	+	8	10	5	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c372		+	+	+	+	+	+	11	14	7	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c373		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c374		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c375		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c376		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c377		+	+	+	+	+	+	6	8	4	G-G-G-Y-G-G-Y-G-Y-G-G-Y	
c378		+	+	+	+	+	+	6	8	4	G-Y-G-G-Y-G-G-Y-G-G-Y-G	
c379		+	+	+	+	+	+	6	8	4	G-Y-G-G-Y-G-G-G-Y-G-G-Y	
c380		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c381		+	+	+	+	+	+	8	11	6	G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c382		+	+	+	+	+	+	11	15	8	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c383		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c384		+	+	+	+	+	+	6	8	4	G-G-G-Y-G-G-Y-G-Y-G-G-Y	
c385		+	+	+	+	+	+	5	7	3	G-G-G-Y-G-G-Y-G-G-Y	
c386		+	+	+	+	+	+	7	9	5	G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c387		+	+	+	+	+	+	10	13	7	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c388		+	+	+	+	+	+	6	8	4	G-G-G-Y-G-Y-G-G-Y-G-G-Y	
c389		+	+	+	+	+	+	6	8	4	G-G-G-Y-G-G-Y-G-G-Y-G-Y	
c390		+	+	+	+	+	+	6	8	4	G-G-G-Y-G-G-Y-G-Y-G-G-Y	
c391		+	+	+	+	+	+	6	8	4	G-G-G-G-Y-G-G-Y-Y-G-G-Y	
c392		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c393		+	+	+	+	+	+	6	8	4	G-G-G-Y-G-G-Y-G-Y-G-G-Y	
c394		+	+	+	+	+	+	7	10	5	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c395		+	+	+	+	+	+	8	11	5	G-G-Y-G-G-Y-G-G-G-Y-G-G-Y-G-G-Y	
c396		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y	

AZFc Arch.		
Num.	Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup>	Parent Architectures
c331	G-R-G-R-G-R-G-R-G	58
c332	G-R-G-R-G-R-G-R-G	58
c333	G-R-G-R-G-R-G-R-G	58
c334	G-R-G-R-G-R-G-R-G	58
c335	G-R-G-R-G-R-G-R-G-G-R-G-R-G-R-G	58 60
c336	G-R-G-R-G-R-G-R-G	58
c337	G-R-G-R-G-R-G-R-G-R-G-R-G	58 62
c338	G-R-G-R-G-R-G-R-G	58
c339	G-R-G-R-G-R-G-R-G	58
c340	G-R-G-R-G-R-G-R-G	58
c341	G-R-G-R-G-R	58
c342	G-R-G-R-G-R-G-R-G-G-R-G-R-G	12 58
c343	G-R-G-R-G-R-G-R-G	58
c344	G-R-G-R-G-R-G-R-G	58
c345	G-R-G-R-G-R-G-R-G-R-G	47 58
c346	G-R-G-R-G-R-G-R-G	58
c347	G-R-G-R-G-R-G-R-G	41 57
c348	G-R-G-R-G-R-G-R-G-G-R-G-R-G-R-G	57
c349	G-R-G-R-G-R-G-R-G-R-G-R-G	57
c350	G-R-G-R-G-R-G-R-G	57
c351	G-R-G-R-G-R-G-R-G	57 65
c352	G-R-G-R-G-R-G-R-G	57
c353	G-R-G-R-G-R-G-R-G-G-R-G-R-G	57 60
c354	G-R-G-R-G-R-G-R-G-R-G	57 62
c355	G-R-G-R-G-R-G-R-G	57
c356	G-R-G-R-G-R-G-R-G	57
c357	G-R-G-R-G-R-G-R-G	57 65
c358	G-R-G-R-G-R-G-R-G-G-R-G-R-G	12 57
c359	G-R-G-R-G-R-G-R-G	47 57
c360	G-R-G-R-G-R-G-R-G-R-G	13 60
c361	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	60
c362	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	60
c363	G-R-G-R-G-R-G-R-G-R-G-R	60
c364	G-R-G-R-G-R-G-R-G-R-G	60
c365	G-R-G-R-G-R-G-R-G-R-G-R	60
c366	G-R-G-R-G-R-G-R-G-R-G-R	41 60
c367	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	60
c368	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-G-R-G-R-G-R-G	60
c369	G-R-G-R-G-R-G-R-G-R-G-R	60
c370	G-R-G-R-G-R-G-R-G	60
c371	G-R-G-R-G-R-G-R-G-G-R-G-R-G	60
c372	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	60
c373	G-R-G-R-G-R-G-R-G-R-G	60
c374	G-R-G-R-G-R-G-R-G-R-G	60
c375	G-R-G-R-G-R-G-R-G-R-G	60
c376	G-R-G-R-G-R-G-R-G-R-G	60
c377	G-R-G-R-G-R-G-R-G-R-G	60
c378	G-R-G-R-G-R-G-R-G-R-G	60
c379	G-R-G-R-G-R-G-R-G-R-G	60
c380	G-R-G-R-G-R-G-R-G-R-G	60
c381	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	60
c382	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-G-R-G-R-G-R-G	60
c383	G-R-G-R-G-R-G-R-G-R-G	60
c384	G-R-G-R-G-R-G-R-G-R-G	60
c385	G-R-G-R-G-R-G-R-G-R-G	60
c386	G-R-G-R-G-R-G-R-G-R-G	60
c387	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	60
c388	G-R-G-R-G-R-G-R-G-R-G	60
c389	G-R-G-R-G-R-G-R-G-R-G	60
c390	G-R-G-R-G-R-G-R-G-R-G	60
c391	G-R-G-R-G-R-G-R-G-R-G	60
c392	G-R-G-R-G-R-G-R-G-R-G	60
c393	G-R-G-R-G-R-G-R-G-R-G	60
c394	G-R-G-R-G-R-G-R-G-R-G-R-G	60
c395	G-R-G-R-G-R-G-R-G-R-G-R-G	60
c396	G-R-G-R-G-R-G-R-G-R-G	60

Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.									
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>	
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y
c397		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-G-Y-G-G-G-Y
c398		+	+	+	+	+	+	7	9	4	G-G-Y-G-G-Y-G-G-G-Y-G-G-Y
c399		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-G-Y-G-G-Y
c400		+	+	+	+	+	+	4	6	3	G-G-Y-G-G-Y-G-G-Y
c401		+	+	+	+	+	+	8	10	5	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c402		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c403		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c404		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c405		+	+	+	+	+	+	4	5	2	G-G-Y-G-G-Y-G
c406		+	+	+	+	+	+	8	11	6	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c407		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c408		+	+	+	+	+	+	5	7	3	G-G-Y-G-G-Y-G-G-G-Y
c409		+	+	+	+	+	+	7	9	5	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c410		+	+	+	+	+	+	6	8	4	G-G-Y-G-G-Y-G-G-G-Y-G-Y
c411		+	+	+	+	+	+	9	12	6	G-G-Y-G-G-Y-G-G-G-Y-G-G-Y-G-G-Y
c412		+	+	+	+	+	+	5	7	4	Y-G-G-Y-G-G-G-Y-G-G-Y
c413		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c414		+	+	+	+	+	+	10	14	8	G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c415		+	+	+	+	+	+	5	7	4	G-Y-G-G-Y-G-G-Y-G-G-Y
c416		+	+	+	+	+	+	7	9	5	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c417		+	+	+	+	+	+	9	12	7	G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y
c418		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c419		+	+	+	+	+	+	5	7	4	G-G-Y-G-Y-G-G-Y-G-G-Y
c420		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c421		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c422		+	+	+	+	+	+	5	7	4	G-Y-G-G-Y-G-Y-G-G-Y-G
c423		+	+	+	+	+	+	5	7	4	G-Y-G-G-Y-G-G-Y-G-G-Y
c424		+	+	+	+	+	+	7	10	6	G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c425		+	+	+	+	+	+	9	13	8	G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y
c426		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c427		+	+	+	+	+	+	4	6	3	G-G-G-Y-G-Y-G-G-Y
c428		+	+	+	+	+	+	6	8	5	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c429		+	+	+	+	+	+	8	11	7	G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y
c430		+	+	+	+	+	+	5	7	4	G-G-G-Y-G-Y-G-Y-G-G-Y
c431		+	+	+	+	+	+	5	7	4	G-G-G-Y-G-Y-G-G-Y-G-Y
c432		+	+	+	+	+	+	5	7	4	G-G-G-Y-G-G-Y-Y-G-G-Y
c433		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c434		+	+	+	+	+	+	6	9	5	G-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c435		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y
c436		+	+	+	+	+	+	6	8	5	G-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c437		+	+	+	+	+	+	5	7	4	G-G-Y-G-G-Y-G-G-Y-G-Y
c438		+	+	+	+	+	+	4	5	3	Y-G-G-Y-G-G-Y
c439		+	+	+	+	+	+	3	4	3	Y-G-G-Y-G-G-Y
c440		+	+	+	+	+	+	8	9	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c441		+	+	+	+	+	+	9	10	4	G-G-Y-G-G-G-G-Y-G-G-Y-G-G-Y
c442		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c443		+	+	+	+	+	+	5	6	3	G-Y-G-G-G-Y-G-G-Y
c444		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c445		+	+	+	+	+	+	10	12	6	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c446		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c447		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c448		+	+	+	+	+	+	7	8	4	G-G-Y-G-G-Y-G-G-Y-G-G-Y
c449	b2/b3 del+blue-gray du	+	+	-	+	+	+	2	2	2	G-Y-G-Y
c450		+	+	+	+	+	+	9	10	5	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c451		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c452		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c453		+	+	+	+	+	+	5	6	3	G-G-G-Y-G-Y-G-G-Y
c454		+	+	+	+	+	+	5	6	3	G-Y-G-G-Y-G-G-Y-G
c455		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c456		+	+	+	+	+	+	9	11	6	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y
c457		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y
c458		+	+	+	+	+	+	5	6	3	G-G-G-Y-G-Y-G-G-Y
c459		+	+	+	+	+	+	6	7	4	G-G-Y-G-Y-G-G-Y-G-G-Y
c460		+	+	+	+	+	+	8	9	5	G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y
c461		+	+	+	+	+	+	5	6	3	G-G-G-Y-G-G-Y-G-Y
c462		+	+	+	+	+	+	5	6	3	G-G-G-Y-G-Y-G-G-Y

Repping et al.		
AZFc Arch.		
Num.	Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup>	Parent Architectures
c397	G-R-G-R-G-R-G-G-R-G-R-G	60
c398	G-R-G-R-G-R-G-G-R-G-R-G	60
c399	G-R-G-R-G-R-G-G-R-G-R-G	60
c400	G-R-G-R-G-R-G-G-R-G	12 30 60
c401	G-R-G-R-G-R-G-G-R-G-R-G-R-G-R-G	60
c402	G-R-G-R-G-R-G-G-R-G-R-G	60
c403	G-R-G-R-G-R-G-G-R-G-R-G	60
c404	G-R-G-R-G-R-G-G-R-G-R-G	60
c405	G-R-G-R-G-R-G-G-R	60
c406	G-R-G-R-G-R-G-G-R-G-R-G-G-R-G-R-G	12 13 60
c407	G-R-G-R-G-R-G-G-R-R-G-G-R-G	60
c408	G-R-G-R-G-R-G-G-R-G-R-G	60
c409	G-R-G-R-G-R-G-G-R-G-R-G-R-G	60
c410	G-R-G-R-G-R-G-G-R-G-R-G	60
c411	G-R-G-R-G-R-G-G-R-G-R-G-G-R-G-R-G	12
c412	G-R-G-R-G-R-G-G-R-G-R-G	12 14
c413	G-R-G-R-G-R-G-G-R-G-R-G	12 15 41
c414	G-R-G-R-G-R-G-G-R-G-R-G-R-G-R-G-R-G	12
c415	G-R-G-R-G-R-G-G-R-G-R-G	12
c416	G-R-G-R-G-R-G-G-R-G-R-G-R-G	12 62
c417	G-R-G-R-G-R-G-G-R-G-R-G-R-G-R-G-R-G	12
c418	G-R-G-R-G-R-G-G-R-G-R-G	12
c419	G-R-G-R-G-R-G-G-R-G-R-G	12
c420	G-R-G-R-G-R-G-G-R-G-R-G	12
c421	G-R-G-R-G-R-G-G-R-G-R-G	12
c422	G-R-G-R-G-R-G-G-R-G-R-G	12 65
c423	G-R-G-R-G-R-G-G-R-G-R-G	12
c424	G-R-G-R-G-R-G-G-R-G-R-G-R-G	12 16
c425	G-R-G-R-G-R-G-G-R-G-R-G-R-G-R-G	12 17
c426	G-R-G-R-G-R-G-G-R-G-R-G	12
c427	G-R-G-R-G-R-G-G-R-G	12
c428	G-R-G-R-G-R-G-G-R-G-R-G	12 22
c429	G-R-G-R-G-R-G-G-R-G-R-G-R-G-R-G	12 23
c430	G-R-G-R-G-R-G-G-R-G-R-G	12
c431	G-R-G-R-G-R-G-G-R-G-R-G	12
c432	G-R-G-R-G-R-G-G-R-G-R-G	12
c433	G-R-G-R-G-R-G-G-R-G-R-G	12 27
c434	G-R-G-R-G-R-G-G-R-G-R-G-R-G	12 28
c435	G-R-G-R-G-R-G-G-R-G-R-G	12 29
c436	G-R-G-R-G-R-G-G-R-G-R-G	12 31
c437	G-R-G-R-G-R-G-G-R-G-R-G	12 32
c438	G-R-G-R-G-R-G-R-G	48 62
c439	G-R-G-R-G-R-G	62
c440	G-R-G-R-G-R-G-G-R-G-R-G-R-G	62
c441	G-R-G-R-G-R-G-G-R-G-R-G-R-G-R-G	62
c442	G-R-G-R-G-R-G-R-G-R-G	62
c443	G-R-G-R-G-R-G-R-G-R-G	62
c444	G-R-G-R-G-R-G-R-G-R-G	41 62
c445	G-R-G-R-G-R-G-G-R-G-R-G-R-G-R-G-R-G	62
c446	G-R-G-R-G-R-G-G-R-G-R-G	62
c447	G-R-G-R-G-R-G-G-R-G-R-G	62
c448	G-R-G-R-G-R-G-R-G-R-G-R-G	62
c449	G-R-G-R	35 38 51
c450	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	62
c451	G-R-G-R-G-R-G-R-G-R-G	62
c452	G-R-G-R-G-R-G-R-G-R-G	62
c453	G-R-G-R-G-R-G-R-G-R-G	62
c454	G-R-G-R-G-R-G-R-G-R-G	62
c455	G-R-G-R-G-R-G-R-G-R-G	62
c456	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	62
c457	G-R-G-R-G-R-G-R-G-R-G	62
c458	G-R-G-R-G-R-G-R-G-R-G	62
c459	G-R-G-R-G-R-G-R-G-R-G	62
c460	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	62
c461	G-R-G-R-G-R-G-R-G-R-G	62
c462	G-R-G-R-G-R-G-R-G-R-G	62



Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.										
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>		
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y	
c463		+	+	+	+	+	+	5	6	3	G-G-G-G-Y-Y-G-G-Y	
c464		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y	
c465		+	+	+	+	+	+	5	6	3	G-G-G-Y-G-Y-G-G-Y	
c466		+	+	+	+	+	+	6	7	3	G-G-Y-G-G-G-Y-G-G-Y	
c467		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y	
c468		+	+	+	+	+	+	5	6	3	G-G-Y-G-Y-G-G-Y-G	
c469		+	+	+	+	+	+	3	3	1	G-G-Y-G	
c470		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-Y-G-G-Y	
c471		+	+	+	+	+	+	4	5	2	G-G-Y-G-G-G-Y	
c472		+	+	+	+	+	+	6	7	4	G-G-Y-G-G-Y-G-Y-G-G-Y	
c473		+	+	+	+	+	+	5	6	3	G-G-Y-G-G-G-Y-G-Y	
c474		+	+	+	+	+	+	7	8	4	G-G-Y-G-G-G-Y-G-Y-G-G-Y	
c475		+	+	+	+	+	+	4	5	3	G-G-Y-G-Y-G-G-Y	
c476		+	+	+	+	+	+	8	10	6	G-G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c477		+	+	+	+	+	+	4	5	3	G-Y-G-G-Y-G-G-Y	
c478		+	+	+	+	+	+	7	8	5	G-G-Y-G-Y-G-G-G-Y-G-G-Y	
c479		+	+	+	+	+	+	4	5	3	G-G-Y-G-Y-G-G-Y	
c480		+	+	+	+	+	+	4	5	3	G-Y-G-G-Y-G-Y-G	
c481		+	+	+	+	+	+	7	9	6	G-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y	
c482		+	+	+	+	+	+	4	5	3	G-G-Y-G-Y-G-G-Y	
c483		+	+	+	+	+	+	4	5	3	G-G-Y-G-Y-G-G-Y	
c484		+	+	+	+	+	+	5	6	4	G-G-Y-G-Y-G-Y-G-G-Y	
c485		+	+	+	+	+	+	6	7	5	G-G-Y-G-Y-G-Y-G-Y-G-G-Y	
c486		+	+	+	+	+	+	4	5	3	G-G-G-Y-Y-G-G-Y	
c487		+	+	+	+	+	+	4	5	3	G-G-Y-G-G-Y-G-Y	
c488		+	-	+	+	+	+	3	5	4	Y-G-G-Y-G-Y-G-G-Y	
c489		+	+	+	+	+	+	6	9	5	G-Y-G-G-G-Y-G-G-Y-G-G-G-Y	
c490		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c491		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c492		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c493		+	+	+	+	+	+	5	7	5	G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c494		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c495		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c496		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c497		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c498		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-Y-G-Y-G-G-Y	
c499		+	+	+	+	+	+	6	8	4	G-Y-G-G-Y-G-G-Y-G-G-Y-G	
c500		+	+	+	+	+	+	5	7	4	G-Y-G-G-Y-G-Y-G-G-Y-G	
c501		+	+	+	+	+	+	4	5	3	G-Y-G-Y-G-G-Y-G	
c502		+	+	+	+	+	+	3	4	2	G-G-Y-G-Y-G	
c503		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-Y-G-G-Y-G	
c504		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c505		+	+	+	+	+	+	4	6	4	Y-G-G-Y-G-G-Y-G-G-Y	
c506		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c507		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c508		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c509		+	+	+	+	+	+	5	7	5	G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c510		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c511		+	+	+	+	+	+	6	8	6	G-Y-G-G-Y-Y-G-G-Y-G-Y-G-G-Y	
c512		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c513		+	+	+	+	+	+	4	6	4	G-Y-G-Y-G-G-Y-G-G-Y	
c514		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-Y-G-Y-G-G-Y	
c515		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c516		+	+	+	+	+	+	3	4	3	Y-G-G-Y-G-G-Y	
c517		+	+	+	+	+	+	3	4	3	G-Y-G-G-Y-G-Y	
c518		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-Y-G-G-Y-G-Y	
c519		+	+	+	+	+	+	6	8	6	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c520		+	+	+	+	+	+	4	5	4	G-Y-G-Y-G-G-Y-G-Y	
c521		+	+	+	+	+	+	5	6	5	G-Y-G-G-Y-Y-G-G-Y-G-Y	
c522		+	+	+	+	+	+	4	5	4	G-Y-G-G-Y-G-Y-G-Y	
c523		+	-	+	-	+	+	2	4	3	Y-G-G-Y-G-G-Y	
c524		+	+	+	+	+	+	3	5	3	Y-G-G-G-Y-G-G-Y	
c525		+	+	+	+	+	+	3	5	3	G-Y-G-G-Y-G-G-Y	
c526		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c527		+	+	+	+	+	+	6	10	6	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c528		+	+	+	+	+	+	4	6	4	G-Y-G-Y-G-G-Y-G-G-Y	

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<b>AZFc Arch.</b>		
<b>Num.</b>	<b>Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup></b>	<b>Parent Architectures</b>
c463	G-R-G-R-G-R-G-R-G	62
c464	G-R-G-R-G-R-G-R-G	62
c465	G-R-G-R-G-R-G-R-G	62
c466	G-R-G-R-G-R-G-R-G-R-G	62
c467	G-R-G-R-G-R-G-R-G	62
c468	G-R-G-R-G-R-G-R-G	62
c469	G-R-G-R-G-R	62
c470	G-R-G-R-G-R-G-R-G	62
c471	G-R-G-R-G-R-G-R-G	62
c472	G-R-G-R-G-R-G-R-G-R-G	47 48 62
c473	G-R-G-R-G-R-G-R-G	62
c474	G-R-G-R-G-R-G-R-G-R-G-R-G	47
c475	G-R-G-R-G-R-G-R-G	40 41 47
c476	G-R-G-R-G-R-G-R-G-G-R-G-R-G-R-G	47
c477	G-R-G-R-G-R-G-R-G	47
c478	G-R-G-R-G-R-G-R-G-R-G-R-G	47
c479	G-R-G-R-G-R-G-R-G	47
c480	G-R-G-R-G-R-G-R-G	47 65
c481	G-R-G-R-G-R-G-R-G-G-R-G-R-G-R-G	47 49
c482	G-R-G-R-G-R-G-R-G	47
c483	G-R-G-R-G-R-G-R-G	47
c484	G-R-G-R-G-R-G-R-G-R-G	47 52
c485	G-R-G-R-G-R-G-R-G-R-G	47 53
c486	G-R-G-R-G-R-G-R-G	47
c487	G-R-G-R-G-R-G-R-G	47 55
c488	G-R-G-R-G-R-G	11 29
c489	G-R-G-R-G-R-G-R-G-G-R-G-R-G	29
c490	G-R-G-R-G-R-G-R-G-G-R-G-R-G	29
c491	G-R-G-R-G-R-G-R-G	15 29
c492	G-R-G-R-G-R-G-R-G-G-R-G-R-G-R-G	29
c493	G-R-G-R-G-R-G-R-G-R-G	22 29
c494	G-R-G-R-G-R-G-R-G-G-R-G-R-G	29
c495	G-R-G-R-G-R-G-R-G-G-R-G-R-G	29
c496	G-R-G-R-G-R-G-R-G	27 29
c497	G-R-G-R-G-R-G-R-G-R-G	28 29
c498	G-R-G-R-G-R-G-R-G-R-G	29 31
c499	G-R-G-R-G-R-G-R-G-R-G-R-G	65
c500	G-R-G-R-G-R-G-R-G-R-G	65
c501	G-R-G-R-G-R-G-R-G	65
c502	G-R-G-R-G-R-G	65
c503	G-R-G-R-G-R-G-R-G	65
c504	G-R-G-R-G-R-G-R-G-G-R-G-R-G	27
c505	G-R-G-R-G-R-G-R-G	14 27
c506	G-R-G-R-G-R-G-R-G	15 27
c507	G-R-G-R-G-R-G-R-G-G-R-G-R-G	16 27
c508	G-R-G-R-G-R-G-R-G-G-R-G-R-G-R-G	27
c509	G-R-G-R-G-R-G-R-G-R-G	22 27
c510	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	27
c511	G-R-G-R-G-R-G-R-G-G-R-G	27
c512	G-R-G-R-G-R-G-R-G-G-R-G-R-G	16 27
c513	G-R-G-R-G-R-G-R-G	27 32
c514	G-R-G-R-G-R-G-R-G-G-R-G	27 31
c515	G-R-G-R-G-R-G-R-G-R-G	27 28
c516	G-R-G-R-G-R-G	55
c517	G-R-G-R-G-R-G	40 55
c518	G-R-G-R-G-R-G-R-G-R-G	31 55
c519	G-R-G-R-G-R-G-R-G-R-G-R-G	55
c520	G-R-G-R-G-R-G-R-G	52 55
c521	G-R-G-R-G-R-G-R-G-R-G	55
c522	G-R-G-R-G-R-G-R-G	52 55
c523	G-R-G-R-G-R-G	11 30
c524	G-R-G-R-G-R-G	14 30
c525	G-R-G-R-G-R-G	15 30
c526	G-R-G-R-G-R-G-R-G-G-R-G	16 17 30
c527	G-R-G-R-G-R-G-G-R-G-R-G-R-G	30
c528	G-R-G-R-G-R-G-R-G	22 30 49

Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.										
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>		
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y	
c529		+	+	+	+	+	+	4	7	4	G-Y-G-G-Y-G-G-Y-G-G-Y	
c530		+	-	+	+	+	+	3	5	4	Y-G-Y-G-G-Y-G-G-Y	
c531		+	+	+	+	+	+	4	6	4	Y-G-Y-G-G-G-Y-G-G-Y	
c532		+	+	+	+	+	+	4	6	4	Y-G-G-Y-G-G-Y-G-G-Y	
c533		+	+	+	+	+	+	4	6	4	G-Y-G-G-Y-G-G-Y-G-Y	
c534		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c535		+	+	+	+	+	+	7	11	7	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c536		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c537		+	+	+	+	+	+	5	7	5	G-Y-G-Y-G-G-Y-G-G-Y-G-Y	
c538		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-G-Y-Y-G-G-Y-G-G-Y-G-Y	
c539		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c540		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c541		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-G-Y-G-G-Y	
c542		+	-	+	+	+	+	4	7	5	Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c543		+	+	+	+	+	+	9	14	8	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c544		+	+	+	+	+	+	5	8	5	Y-G-G-Y-G-Y-G-G-G-Y-G-G-Y	
c545		+	+	+	+	+	+	5	8	5	Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c546		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c547		+	+	+	+	+	+	7	11	7	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c548		+	+	+	+	+	+	8	13	8	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c549		+	+	+	+	+	+	10	16	10	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c550		+	+	+	+	+	+	6	9	6	G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c551		+	+	+	+	+	+	9	14	9	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c552		+	+	+	+	+	+	5	8	5	G-G-Y-G-G-Y-G-Y-G-Y-G-G-Y	
c553		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c554		+	+	+	+	+	+	6	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c555		+	+	+	+	+	+	7	12	7	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c556		+	+	+	+	+	+	7	11	7	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c557		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c558		+	+	+	+	+	+	5	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c559		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c560		+	+	+	+	+	+	6	9	6	Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c561		+	+	+	+	+	+	10	14	8	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c562		+	+	+	+	+	+	11	15	8	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c563		+	+	+	+	+	+	13	18	10	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c564		+	+	+	+	+	+	7	10	6	Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c565		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c566		+	+	+	+	+	+	7	10	6	Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c567		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c568		+	+	+	+	+	+	9	13	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c569		+	+	+	+	+	+	12	17	10	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c570		+	+	+	+	+	+	14	20	12	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c571		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c572		+	+	+	+	+	+	7	10	6	G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c573		+	+	+	+	+	+	6	9	5	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c574		+	+	+	+	+	+	8	11	7	G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c575		+	+	+	+	+	+	11	15	9	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c576		+	+	+	+	+	+	13	18	11	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c577		+	+	+	+	+	+	7	10	6	G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c578		+	+	+	+	+	+	7	10	6	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c579		+	+	+	+	+	+	7	10	6	G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c580		+	+	+	+	+	+	7	10	6	G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c581		+	+	+	+	+	+	7	10	6	G-G-G-Y-G-G-Y-Y-G-G-Y-G-G-Y	
c582		+	+	+	+	+	+	7	10	6	G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c583		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c584		+	+	+	+	+	+	7	10	6	G-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c585		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c586		+	+	+	+	+	+	6	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c587		+	+	+	+	+	+	8	12	7	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c588		+	+	+	+	+	+	9	13	7	G-Y-G-G-Y-G-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c589		+	+	+	+	+	+	11	16	9	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c590		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c591		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c592		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c593		+	+	+	+	+	+	8	11	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c594		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	

Repping et al.		
AZFc Arch.		
Num.	Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup>	Parent Architectures
c529	G-R-G-R-G-R-G-R-G	28 30
c530	G-R-G-R-G-R-G	11 32
c531	G-R-G-R-G-R-G-R-G	14 32
c532	G-R-G-R-G-R-G-R-G	32
c533	G-R-G-R-G-R-G-R-G	15 32
c534	G-R-G-R-G-R-G-R-G-R-G	16 32
c535	G-R-G-R-G-R-G-R-G-R-G-R-G	32
c536	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	32
c537	G-R-G-R-G-R-G-R-G-R-G	22 32
c538	G-R-G-R-G-R-G-R-G-R-G-R-G	32
c539	G-R-G-R-G-R-G-R-G-R-G	28 32
c540	G-R-G-R-G-R-G-R-G-R-G	32
c541	G-R-G-R-G-R-G-R-G	31 32
c542	G-R-G-R-G-R-G-R-G	11 28
c543	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	28
c544	G-R-G-R-G-R-G-R-G	28
c545	G-R-G-R-G-R-G-R-G	28
c546	G-R-G-R-G-R-G-R-G	15 28
c547	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16 17 28
c548	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	28
c549	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	28
c550	G-R-G-R-G-R-G-R-G-R-G	22 28
c551	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	28
c552	G-R-G-R-G-R-G-R-G-R-G	28
c553	G-R-G-R-G-R-G-R-G-R-G	28
c554	G-R-G-R-G-R-G-R-G-R-G	28
c555	G-R-G-R-G-R-G-R-G-R-G-R-G	28
c556	G-R-G-R-G-R-G-R-G-R-G-R-G	16 17 28
c557	G-R-G-R-G-R-G-R-G	28
c558	G-R-G-R-G-R-G-R-G	28
c559	G-R-G-R-G-R-G-R-G-R-G	28 31
c560	G-R-G-R-G-R-G-R-G-R-G	13
c561	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c562	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c563	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c564	G-R-G-R-G-R-G-R-G-R-G	13
c565	G-R-G-R-G-R-G-R-G-R-G-R	13
c566	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c567	G-R-G-R-G-R-G-R-G-R-G-R-G	13 15
c568	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c569	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c570	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c571	G-R-G-R-G-R-G-R-G-R-G-R-G-R	13
c572	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c573	G-R-G-R-G-R-G-R-G-R-G	13
c574	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c575	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c576	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c577	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c578	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c579	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c580	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c581	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c582	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c583	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c584	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c585	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c586	G-R-G-R-G-R-G-R-G-R-G	13
c587	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c588	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c589	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c590	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c591	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c592	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c593	G-R-G-R-G-R-G-R-G-R-G-R-G	13
c594	G-R-G-R-G-R-G-R-G-R-G-R-G	13

Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.										
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>		
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y	
c595		+	+	+	+	+	+	9	12	7	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c596		+	+	+	+	+	+	11	15	9	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c597		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c598		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c599		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c600		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c601		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c602		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c603		+	+	+	+	+	+	9	13	8	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c604		+	+	+	+	+	+	11	16	10	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c605		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c606		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c607		+	+	+	+	+	+	6	9	5	G-Y-G-G-Y-G-G-Y-G-G-Y	
c608		+	+	+	+	+	+	8	11	7	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c609		+	+	+	+	+	+	4	6	3	G-Y-G-G-Y-G-G-Y	
c610		+	+	+	+	+	+	10	14	9	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c611		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c612		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c613		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c614		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c615		+	+	+	+	+	+	6	8	5	G-Y-G-G-Y-G-G-Y-G-G-Y	
c616		+	+	+	+	+	+	8	12	7	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c617		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c618		+	+	+	+	+	+	6	9	5	G-Y-G-G-Y-G-G-Y-G-G-Y	
c619		+	+	+	+	+	+	8	11	7	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c620		+	+	+	+	+	+	7	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c621		+	+	+	+	+	+	5	8	6	Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c622		+	+	+	+	+	+	11	16	10	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c623		+	+	+	+	+	+	6	9	6	Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c624		+	+	+	+	+	+	6	9	6	Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c625		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c626		+	+	+	+	+	+	10	15	10	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c627		+	+	+	+	+	+	12	18	12	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c628		+	+	+	+	+	+	7	10	7	G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c629		+	+	+	+	+	+	9	13	9	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c630		+	+	+	+	+	+	11	16	11	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c631		+	+	+	+	+	+	6	9	6	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c632		+	+	+	+	+	+	6	9	6	G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c633		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c634		+	+	+	+	+	+	9	14	9	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c635		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c636		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c637		+	+	+	+	+	+	9	13	9	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c638		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c639		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c640		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c641		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c642		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c643		+	+	+	+	+	+	7	11	8	Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c644		+	+	+	+	+	+	13	19	12	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c645		+	+	+	+	+	+	15	22	14	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c646		+	+	+	+	+	+	8	12	8	Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c647		+	+	+	+	+	+	8	12	8	Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c648		+	+	+	+	+	+	8	12	8	Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c649		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c650		+	+	+	+	+	+	14	21	14	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c651		+	+	+	+	+	+	16	24	16	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c652		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c653		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c654		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c655		+	+	+	+	+	+	7	11	7	G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c656		+	+	+	+	+	+	9	13	9	G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c657		+	+	+	+	+	+	11	16	11	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c658		+	+	+	+	+	+	13	19	13	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c659		+	+	+	+	+	+	15	22	15	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c660		+	+	+	+	+	+	8	12	8	G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	

Repping et al.		
AZFc Arch.	Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup>	Parent Architectures
c595	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c596	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c597	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c598	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c599	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c600	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c601	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c602	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c603	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13 16
c604	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13 17
c605	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c606	G-R-G-R-G-R-R-G-R-G-R-G-R-G-R-G	13
c607	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c608	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c609	G-R-G-R-G-R-G-R-G	13
c610	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13 23
c611	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c612	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c613	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c614	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c615	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c616	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c617	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c618	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c619	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13 31
c620	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	13
c621	G-R-G-R-G-R-G-R-G-R-G	11 16 17
c622	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16
c623	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	14 16
c624	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	14 16
c625	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	15 16
c626	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16 17
c627	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16 17
c628	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16 17 22
c629	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16 17 23
c630	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16 17
c631	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16
c632	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16
c633	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16
c634	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16 17
c635	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16
c636	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16
c637	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16 17 23
c638	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16
c639	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16
c640	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16
c641	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16
c642	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	16 17 31
c643	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c644	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c645	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c646	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c647	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c648	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c649	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	15 17
c650	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c651	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c652	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c653	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c654	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c655	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c656	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c657	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c658	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c659	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c660	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17

Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.									
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>	
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y
c661		+	+	+	+	+	8	12	8	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c662		+	+	+	+	+	8	12	8	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c663		+	+	+	+	+	8	12	8	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c664		+	+	+	+	+	8	12	8	G-G-Y-G-G-Y-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c665		+	+	+	+	+	8	12	8	G-G-Y-G-G-Y-G-Y-G-G-Y-Y-G-G-Y-G-Y-G-G-Y	
c666		+	+	+	+	+	8	12	8	G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-Y-G-G-Y	
c667		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c668		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c669		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c670		+	+	+	+	+	9	14	9	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c671		+	+	+	+	+	11	17	11	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c672		+	+	+	+	+	13	20	13	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c673		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c674		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c675		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c676		+	+	+	+	+	13	19	13	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c677		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c678		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c679		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c680		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c681		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-Y-G-G-Y	
c682		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c683		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c684		+	+	+	+	+	11	17	11	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c685		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c686		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c687		+	+	+	+	+	11	16	11	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c688		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c689		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c690		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c691		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c692		+	+	+	+	+	9	14	9	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c693		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c694		+	+	+	+	+	7	11	7	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c695		+	+	+	+	+	9	13	9	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c696		+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c697		+	-	+	+	+	4	6	5	Y-G-G-Y-G-Y-G-G-Y	
c698		+	+	+	+	+	9	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c699		+	+	+	+	+	5	7	5	Y-G-G-Y-G-Y-G-G-Y	
c700		+	+	+	+	+	5	7	5	Y-G-G-Y-G-Y-G-G-Y	
c701		+	+	+	+	+	10	14	10	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c702		+	+	+	+	+	5	7	5	Y-G-G-Y-G-Y-G-G-Y	
c703		+	+	+	+	+	8	11	8	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c704		+	+	+	+	+	9	12	9	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c705		+	+	+	+	+	5	7	5	G-G-Y-G-Y-G-G-Y-G-G-Y	
c706		+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-Y-G-G-Y	
c707		+	+	+	+	+	6	8	6	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c708		+	+	+	+	+	7	9	7	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c709		+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-G-Y-G-G-Y	
c710		+	-	+	+	+	6	9	7	Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c711		+	-	+	+	+	4	6	5	Y-G-G-Y-G-Y-G-G-Y	
c712		+	+	+	+	+	11	15	10	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c713		+	+	+	+	+	13	18	12	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c714		+	+	+	+	+	7	10	7	Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c715		+	+	+	+	+	7	10	7	Y-G-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c716		+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c717		+	+	+	+	+	12	17	12	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c718		+	+	+	+	+	14	20	14	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c719		+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c720		+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c721		+	+	+	+	+	7	10	7	G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c722		+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-G-G-Y	
c723		+	+	+	+	+	6	9	6	G-G-Y-G-Y-G-G-Y-G-G-Y	
c724		+	+	+	+	+	8	11	8	G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c725		+	+	+	+	+	10	14	10	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	
c726		+	+	+	+	+	11	15	11	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y	

Repping et al.		
AZFc Arch.		
Num.	Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup>	Parent Architectures
c661	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c662	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c663	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c664	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c665	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c666	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c667	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c668	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c669	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c670	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c671	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c672	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c673	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c674	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c675	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c676	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c677	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c678	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c679	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c680	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c681	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c682	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c683	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c684	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c685	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c686	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c687	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c688	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c689	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c690	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c691	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c692	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c693	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c694	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c695	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c696	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	17
c697	G-R-G-R-G-R-G-R-G	11 31 49
c698	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	31
c699	G-R-G-R-G-R-G-R-G-R-G	14 31
c700	G-R-G-R-G-R-G-R-G-R-G	15 31
c701	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	31
c702	G-R-G-R-G-R-G-R-G-R-G	31
c703	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23 31
c704	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	31
c705	G-R-G-R-G-R-G-R-G-R-G	31
c706	G-R-G-R-G-R-G-R-G-R-G	31
c707	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23 31
c708	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	31
c709	G-R-G-R-G-R-G-R-G-R-G	31
c710	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c711	G-R-G-R-G-R-G-R-G-R-G	22 23
c712	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c713	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c714	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c715	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c716	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	15 23
c717	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c718	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c719	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c720	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c721	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c722	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c723	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c724	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	22 23
c725	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c726	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23



Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.										
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>		
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y	
c727		+	+	+	+	+	+	13	18	13	G-Y-G-G-Y-G-Y-G-G-G-Y-G-Y-G-G-G-Y-G-Y-G-G-G-Y-G-Y-G-G-G-Y	
c728		+	+	+	+	+	+	7	10	7	G-G-Y-G-Y-G-Y-G-Y-G-G-Y-G-G-Y	
c729		+	+	+	+	+	+	7	10	7	G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c730		+	+	+	+	+	+	7	10	7	G-G-Y-G-G-Y-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c731		+	+	+	+	+	+	7	10	7	G-G-Y-G-Y-G-G-Y-Y-G-G-Y-G-Y-G-G-Y	
c732		+	+	+	+	+	+	7	10	7	G-G-Y-G-G-Y-G-Y-G-Y-G-G-Y-Y-G-G-Y	
c733		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y	
c734		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c735		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c736		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c737		+	+	+	+	+	+	11	16	11	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y	
c738		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y	
c739		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y	
c740		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-G-Y-G-Y-G-Y-G-Y-G-G-Y	
c741		+	+	+	+	+	+	8	11	8	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c742		+	+	+	+	+	+	9	12	9	G-Y-G-G-Y-G-Y-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c743		+	+	+	+	+	+	11	15	11	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c744		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-G-Y-G-Y-G-Y-G-Y-G-G-Y	
c745		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c746		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-G-Y-Y-G-G-Y-G-Y-G-G-Y	
c747		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y-Y-G-G-Y	
c748		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y	
c749		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y	
c750		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y-Y-G-G-Y	
c751		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c752		+	+	+	+	+	+	8	12	8	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c753		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c754		+	+	+	+	+	+	6	9	6	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y	
c755		+	+	+	+	+	+	7	10	7	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y	
c756		+	+	+	+	+	+	4	5	4	Y-G-G-Y-G-Y-G-G-Y	
c757		+	+	+	+	+	+	7	8	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c758		+	+	+	+	+	+	8	9	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c759		+	+	+	+	+	+	9	10	6	G-Y-G-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c760		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c761		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c762		+	+	+	+	+	+	10	12	8	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c763		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c764		+	+	+	+	+	+	5	6	4	G-G-Y-G-Y-G-Y-G-G-Y	
c765		+	+	+	+	+	+	6	7	5	G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c766		+	+	+	+	+	+	8	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c767		+	+	+	+	+	+	9	10	7	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c768		+	+	+	+	+	+	5	6	4	G-G-Y-G-Y-G-G-Y-G-Y	
c769		+	+	+	+	+	+	5	6	4	G-G-Y-G-Y-G-Y-G-G-Y	
c770		+	+	+	+	+	+	5	6	4	G-G-G-Y-Y-G-Y-G-G-Y	
c771		+	+	+	+	+	+	5	6	4	G-G-Y-G-G-Y-Y-G-G-Y	
c772		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c773		+	+	+	+	+	+	5	6	4	G-G-Y-G-Y-G-Y-G-G-Y	
c774		+	+	+	+	+	+	6	7	4	G-Y-G-G-Y-G-Y-G-G-Y	
c775		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c776		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c777		+	+	+	+	+	+	5	6	4	G-Y-G-Y-G-G-Y-G-Y-G	
c778		+	+	+	+	+	+	2	2	1	G-Y-G	
c779		+	+	+	+	+	+	8	10	7	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y	
c780		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c781		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-Y-G-G-Y	
c782		+	+	+	+	+	+	6	7	5	G-Y-G-G-Y-G-Y-G-Y-G-G-Y	
c783		+	+	+	+	+	+	3	4	2	G-Y-G-G-G-Y	
c784		+	+	+	+	+	+	7	8	6	G-Y-G-G-Y-G-Y-G-Y-G-G-Y	
c785		+	+	+	+	+	+	5	6	4	G-Y-G-G-G-Y-G-Y-G-Y	
c786		+	+	+	+	+	+	5	6	4	G-Y-G-G-G-Y-Y-G-G-Y	
c787		+	+	+	+	+	+	5	6	4	G-Y-G-G-Y-G-G-Y-G-Y	
c788		+	+	+	+	+	+	7	9	6	G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c789		+	+	+	+	+	+	9	12	8	G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c790		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y	
c791		+	+	+	+	+	+	5	7	5	G-Y-G-Y-G-G-Y-G-Y-G-G-Y	
c792		+	+	+	+	+	+	10	14	10	G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y	

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<b>AZFc Arch.</b>		
<b>Num.</b>	<b>Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup></b>	<b>Parent Architectures</b>
c727	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c728	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c729	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c730	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c731	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c732	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c733	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c734	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c735	G-R-G-R-G-R-G-R-G-R-G	22 23
c736	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c737	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c738	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c739	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c740	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c741	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c742	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c743	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c744	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c745	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c746	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c747	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c748	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c749	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c750	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c751	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c752	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c753	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c754	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c755	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	23
c756	G-R-G-R-G-R-G-R-G	48
c757	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48
c758	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48
c759	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48
c760	G-R-G-R-G-R-G-R-G-R	48
c761	G-R-G-R-G-R-G-R-G-R-G	40 48
c762	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48
c763	G-R-G-R-G-R-G-R-G-R	48
c764	G-R-G-R-G-R-G-R-G-R	48
c765	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48
c766	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48
c767	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48
c768	G-R-G-R-G-R-G-R-G-R-G	48
c769	G-R-G-R-G-R-G-R-G-R-G	48
c770	G-R-G-R-G-R-G-R-G-R-G	48
c771	G-R-G-R-G-R-G-R-G-R-G	48
c772	G-R-G-R-G-R-G-R-G-R-G	48
c773	G-R-G-R-G-R-G-R-G-R-G	48
c774	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48
c775	G-R-G-R-G-R-G-R-G-R-G	48
c776	G-R-G-R-G-R-G-R-G-R-G	48
c777	G-R-G-R-G-R-G-R-G-R-G	48
c778	G-R-G-R	48
c779	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48 49
c780	G-R-G-R-G-R-G-R-G-R-G	48
c781	G-R-G-R-R-G-R-G-R-G	48
c782	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48 52
c783	G-R-G-R-G-R-G	48
c784	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	48 53
c785	G-R-G-R-G-R-G-R-G-R-G	48
c786	G-R-G-R-G-R-G-R-G-R-G	48
c787	G-R-G-R-G-R-G-R-G-R-G	48
c788	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	22
c789	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	22
c790	G-R-G-R-G-R-G-R-G-R-G	14 22
c791	G-R-G-R-G-R-G-R-G-R-G	15 22
c792	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	22

Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.									
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>	
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y
c793		+	+	+	+	+	+	5	7	5	G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c794		+	+	+	+	+	+	5	7	5	G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c795		+	+	+	+	+	+	7	9	7	G-Y-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c796		+	+	+	+	+	+	9	12	9	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-Y-G-G-Y-G-G-Y
c797		+	+	+	+	+	+	5	7	5	G-G-Y-Y-G-G-Y-G-Y-G-G-Y
c798		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y
c799		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-Y-G-G-Y-G-G-Y
c800		+	+	+	+	+	+	5	7	5	G-Y-G-G-Y-G-G-Y-Y-G-G-Y
c801		+	-	+	+	+	+	5	7	6	Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y
c802		+	+	+	+	+	+	10	13	9	G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c803		+	+	+	+	+	+	11	14	10	G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c804		+	+	+	+	+	+	6	8	6	Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c805		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c806		+	+	+	+	+	+	9	12	9	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c807		+	+	+	+	+	+	12	16	12	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y
c808		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c809		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c810		+	+	+	+	+	+	6	8	6	G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c811		+	+	+	+	+	+	7	9	7	G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c812		+	+	+	+	+	+	8	10	8	G-Y-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c813		+	+	+	+	+	+	10	13	10	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c814		+	+	+	+	+	+	11	14	11	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-G-Y
c815		+	+	+	+	+	+	6	8	6	G-G-Y-G-Y-G-Y-G-Y-G-G-Y
c816		+	+	+	+	+	+	6	8	6	G-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y
c817		+	+	+	+	+	+	6	8	6	G-G-Y-Y-G-G-Y-G-Y-G-G-G-Y
c818		+	+	+	+	+	+	6	8	6	G-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c819		+	+	+	+	+	+	6	8	6	G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c820		+	+	+	+	+	+	6	8	6	G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-Y
c821		+	+	+	+	+	+	6	8	6	G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c822		+	+	+	+	+	+	8	11	8	G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y-G-G-Y
c823		+	+	+	+	+	+	6	8	6	G-Y-G-G-Y-G-G-Y-Y-G-Y-G-G-Y
c824		+	+	+	+	+	+	6	8	6	G-Y-G-G-Y-G-Y-G-G-Y-Y-G-G-Y
c825		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c826		+	+	+	+	+	+	7	10	7	G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c827		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c828		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c829		+	+	+	+	+	+	7	9	7	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c830		+	+	+	+	+	+	8	10	8	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y-G-G-Y
c831		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-G-Y-G-Y-G-Y
c832		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-G-Y-Y-G-G-Y
c833		+	+	+	+	+	+	6	8	6	G-Y-G-Y-G-G-Y-G-Y-G-G-Y-G-Y
c834		+	-	-	+	+	+	3	4	4	Y-G-G-Y-G-Y-G-Y
c835		+	+	+	+	+	+	7	8	6	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-G-Y
c836		+	+	+	+	+	+	4	5	4	G-Y-G-Y-G-Y-G-G-Y
c837		+	+	+	+	+	+	8	10	8	G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-Y-G-G-Y
c838		+	+	+	+	+	+	4	5	4	G-Y-G-Y-G-Y-G-G-Y
c839		+	+	+	+	+	+	6	7	6	G-Y-G-Y-G-Y-G-Y-G-Y-G-G-Y
c840		+	+	+	+	+	+	7	8	7	G-Y-G-Y-G-Y-G-Y-G-Y-G-Y-G-G-Y
c841		+	+	+	+	+	+	4	5	4	G-Y-G-G-Y-Y-G-G-Y
c842		+	-	-	+	+	+	4	5	5	Y-G-G-Y-G-Y-G-Y-G-Y
c843		+	+	+	+	+	+	8	9	7	G-Y-G-Y-G-G-Y-G-Y-G-Y-G-Y-G-G-Y
c844		+	+	+	+	+	+	9	10	8	G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-Y-G-G-Y
c845		+	+	+	+	+	+	5	6	5	G-Y-G-Y-G-Y-G-Y-G-G-Y
c846		+	+	+	+	+	+	10	12	10	G-Y-G-Y-G-Y-G-Y-G-G-Y-G-Y-G-Y-G-Y-G-G-Y
c847		+	+	+	+	+	+	5	6	5	G-Y-G-Y-G-Y-G-Y-G-G-Y
c848		+	+	+	+	+	+	5	6	5	G-Y-G-Y-G-Y-G-Y-G-G-Y
c849		+	+	+	+	+	+	5	6	5	G-Y-G-Y-G-Y-G-Y-G-G-Y
c850		+	+	+	+	+	+	5	6	5	G-Y-G-Y-G-Y-G-Y-G-G-Y
c851		+	+	+	+	+	+	8	9	8	G-Y-G-Y-G-Y-G-Y-G-Y-G-Y-G-Y-G-G-Y
c852		+	+	+	+	+	+	9	10	9	G-Y-G-Y-G-Y-G-Y-G-Y-G-Y-G-Y-G-G-Y
c853		+	+	+	+	+	+	5	6	5	G-G-Y-Y-G-Y-G-Y-G-G-Y
c854		+	+	+	+	+	+	5	6	5	G-G-Y-G-Y-Y-G-Y-G-G-Y
c855		+	+	+	+	+	+	5	6	5	G-G-Y-G-Y-G-Y-Y-G-G-Y
c856		+	+	+	+	+	+	5	6	5	G-Y-G-G-Y-G-Y-G-Y-G-Y
c857		+	+	+	+	+	+	5	6	5	G-Y-G-G-Y-Y-G-Y-G-G-Y
c858		+	+	+	+	+	+	5	6	5	G-Y-G-G-Y-G-Y-Y-G-G-Y

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AZFc Arch.		
Num.	Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup>	Parent Architectures
c793	G-R-G-R-G-R-G-R-G-R-G	22
c794	G-R-G-R-G-R-G-R-G-R-G	22
c795	G-R-G-R-G-R-G-R-G-R-G	22
c796	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	22
c797	G-R-G-R-G-R-G-R-G-R-G	22
c798	G-R-G-R-G-R-G-R-G-R-G	22
c799	G-R-G-R-G-R-G-R-G-R-G	22
c800	G-R-G-R-G-R-G-R-G-R-G	22
c801	G-R-G-R-G-R-G-R-G-R-G	49
c802	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c803	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c804	G-R-G-R-G-R-G-R-G-R-G	49
c805	G-R-G-R-G-R-G-R-G-R-G	40 49
c806	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c807	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c808	G-R-G-R-G-R-G-R-G-R-G	49
c809	G-R-G-R-G-R-G-R-G-R-G	49
c810	G-R-G-R-G-R-G-R-G-R-G	49
c811	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c812	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c813	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c814	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c815	G-R-G-R-G-R-G-R-G-R-G	49
c816	G-R-G-R-G-R-G-R-G-R-G	49
c817	G-R-G-R-G-R-G-R-G-R-G	49
c818	G-R-G-R-G-R-G-R-G-R-G	49
c819	G-R-G-R-G-R-G-R-G-R-G	49
c820	G-R-G-R-G-R-G-R-G-R-G	49
c821	G-R-G-R-G-R-G-R-G-R-G	49
c822	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c823	G-R-G-R-G-R-G-R-G-R-G	49
c824	G-R-G-R-G-R-G-R-G-R-G	49
c825	G-R-G-R-G-R-G-R-G-R-G	49
c826	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c827	G-R-G-R-G-R-G-R-G-R-G	49
c828	G-R-G-R-G-R-G-R-G-R-G	49
c829	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c830	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	49
c831	G-R-G-R-G-R-G-R-G-R-G	49
c832	G-R-G-R-G-R-G-R-G-R-G	49
c833	G-R-G-R-G-R-G-R-G-R-G	49
c834	G-R-G-R-G-R-G	46 52 53
c835	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	52
c836	G-R-G-R-G-R-G-R-G	40 52
c837	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	52
c838	G-R-G-R-G-R-G-R-G	52
c839	G-R-G-R-G-R-G-R-G-R-G	52 53
c840	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	52 53
c841	G-R-G-R-G-R-G-R-G	52
c842	G-R-G-R-G-R-G-R-G	53
c843	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	53
c844	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	53
c845	G-R-G-R-G-R-G-R-G-R-G	40 53
c846	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	53
c847	G-R-G-R-G-R-G-R-G-R-G	53
c848	G-R-G-R-G-R-G-R-G-R-G	53
c849	G-R-G-R-G-R-G-R-G-R-G	53
c850	G-R-G-R-G-R-G-R-G-R-G	53
c851	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	53
c852	G-R-G-R-G-R-G-R-G-R-G-R-G-R-G-R-G	53
c853	G-R-G-R-G-R-G-R-G-R-G	53
c854	G-R-G-R-G-R-G-R-G-R-G	53
c855	G-R-G-R-G-R-G-R-G-R-G	53
c856	G-R-G-R-G-R-G-R-G-R-G	53
c857	G-R-G-R-G-R-G-R-G-R-G	53
c858	G-R-G-R-G-R-G-R-G-R-G	53

Repping et al. <b>Supplementary Table 2</b>		Enumeration of AZFc architectures that can be generated from the reference architecture by three or fewer homologous recombination events between amplicons in the AZFc region.									
AZFc Arch. Num.	AZFc Architecture Name	Expected STS Results <sup>a</sup>					Expected Number of FISH Dots <sup>b</sup>			Expected Two-Color FISH Results for Green (G) and Yellow (Y) <sup>a</sup>	
		sY142	sY1197	sY1191	sY1291	sY1206	sY1201	R	G		Y
c859		+	+	+	+	+	5	6	5	G-Y-G-Y-G-G-Y-G-Y-G-Y	
c860		+	+	+	+	+	5	6	5	G-Y-G-Y-G-G-Y-Y-G-G-Y	
c861		+	+	+	+	+	5	6	5	G-Y-G-Y-G-Y-G-G-Y-G-Y	
c862		+	+	+	+	+	7	10	6	Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y-G-G-Y	
c863		+	+	+	+	+	6	9	5	Y-G-G-Y-G-G-Y-G-G-G-Y-G-G-Y	
c864		+	+	+	+	+	4	6	4	Y-G-G-Y-G-Y-G-G-G-Y	
c865		+	+	+	+	+	5	8	4	Y-G-G-Y-G-G-G-G-Y-G-G-Y	
c866		+	+	+	+	+	6	9	5	Y-G-G-Y-G-G-G-Y-G-G-Y-G-G-Y	
c867		+	+	+	+	+	4	6	4	Y-G-G-G-Y-G-Y-G-G-Y	
c868		+	+	+	+	+	5	7	4	Y-G-G-Y-G-G-G-Y-G-G-Y	
<b>Total number of architectures, three homologous recombination events</b>							<b>799</b>				
<b>Grand total, three or fewer homologous recombination events (including reference architecture)</b>							<b>866</b>				

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<b>AZFc Arch.</b>		
<b>Num.</b>	<b>Expected Two-Color FISH Results for Green (G) and Red (R) <sup>a</sup></b>	<b>Parent Architectures</b>
c859	G-R-G-R-G-R-G-R-G	53
c860	G-R-G-R-G-R-G-R-G	53
c861	G-R-G-R-G-R-G-R-G	53
c862	G-R-G-R-G-R-G-R-G-R-G-R-G	14
c863	G-R-G-R-G-R-G-R-G-R-G	14
c864	G-R-G-R-G-R-G-R-G	14
c865	G-R-G-R-G-R-G-R-G-R-G	14
c866	G-R-G-R-G-R-G-R-G-R-G	14
c867	G-R-G-R-G-R-G-R-G	14
c868	G-R-G-R-G-R-G-R-G	14