## Updated tomato genome assembly based on FISH results.

Using FISH results Steven Stack, the tomato genome scaffolds were re-ordered, re-oriented, and gap sizes between scaffolds were set. The citation for the FISH and optical mapping work is

Lindsay A. Shearer, Lorinda K. Anderson, Hans de Jong, Sandra Smit, José Luis Goicoechea, Bruce A. Roe, Axin Hua, James J. Giovannoni, and Stephen M. Stack. 2014. Fluorescence in situ hybridization and optical mapping to correct scaffold arrangement in the tomato genome.G3 g3.114.011197; doi:10.1534/g3.114.011197 (http://www.g3journal.org/content/early/2014/05/30/g3.114.011197.abstract)

Tiling Path Files (TPF) were modified using perl scripts in the Bio::GenomeUpdate package (authored by Surya Saha and Jeremy Edwards at SGN) available at <a href="https://github.com/solgenomics/Bio-GenomeUpdate">https://github.com/solgenomics/Bio-GenomeUpdate</a>. Accessioned Golden Path (AGP) and assembled chromosome and scaffold sequences were generated from the TPFs by tools available through the NCBI Genome Reference Consortium (GRC). Table 1 lists the order and orientation changes made. Table 2 lists the gap sizes that were set. Figures 1-12 show the dotplot alignments between the original build SL2.40 chromosome sequences and the new SL2.50 assemblies based on FISH results. The MUMmer version used is 3.23 and alignments of more than 1000bp with 100% identity were used to construct the dot plots.

Table 1. Order and orientation of scaffolds from FISH results.

Chr.	Scaffold	Original Scaffold#	Reversed
1	SL2.40sc04133	1	
1	SL2.40sc04191	3	yes
1	SL2.40sc03666	2	
1	SL2.40sc03594	4	
1	SL2.40sc05010	5	

1	SL2.40sc05941	6	
1	SL2.40sc06917	8	
1	SL2.40sc06903	7	
1	SL2.40sc04323	9	
2	SL2.40sc04732	4	yes
2	SL2.40sc04208	6	yes
2	SL2.40sc05776	5	
2	SL2.40sc06593	1	
2	SL2.40sc04142	2	
2	SL2.40sc03766	3	
2	SL2.40sc03665	7	
3	SL2.40sc04439	1	
3	SL2.40sc04696	4	
3	SL2.40sc05330	5	
3	SL2.40sc04126	6	
3	SL2.40sc04616	9	
3	SL2.40sc06725	7	
3	SL2.40sc04704	8	
3	SL2.40sc04822	2	yes
3	SL2.40sc03721	12	
3	SL2.40sc03806	10	
3	SL2.40sc03796	11	
3	SL2.40sc06911	3	yes
3	SL2.40sc03701	13	
4	SL2.40sc03604	1	
4	SL2.40sc05339	3	yes
4	SL2.40sc03683	2	yes

4	SL2.40sc06101	4	
4	SL2.40sc04680	5	
4	SL2.40sc04135	6	
5	SL2.40sc03726	1	
5	SL2.40sc06155	2	yes
5	SL2.40sc03902	3	
6	SL2.40sc04474	1	
6	SL2.40sc06140	3	yes
6	SL2.40sc05383	2	
6	SL2.40sc04279	4	
6	SL2.40sc05188	5	yes
6	SL2.40sc05732	6	
6	SL2.40sc05054	7	
6	SL2.40sc03622	8	
7	SL2.40sc03731	1	
7	SL2.40sc05397	2	
7	SL2.40sc03685	3	
7	SL2.40sc04626	4	
8	SL2.40sc04813	1	
8	SL2.40sc03770	2	
8	SL2.40sc04167	7	
8	SL2.40sc03749	5	yes
8	SL2.40sc04236	6	yes
8	SL2.40sc03835	3	yes
8	SL2.40sc04701	4	yes
8	SL2.40sc04948	8	
8	SL2.40sc03923	9	_

9	SL2.40sc03771	1	
9	SL2.40sc06916	2	
9	SL2.40sc04008	4	
9	SL2.40sc04950	3	yes
9	SL2.40sc04785	5	
9	SL2.40sc04777	6	
9	SL2.40sc05269	7	
9	SL2.40sc03852	8	
9	SL2.40sc04828	9	
9	SL2.40sc06214	10	
10	SL2.40sc05925	1	
10	SL2.40sc03798	2	
10	SL2.40sc04872	4	
10	SL2.40sc05632	3	
10	SL2.40sc04534	5	
10	SL2.40sc04199	6	
11	SL2.40sc03748	1	
11	SL2.40sc06763	4	
11	SL2.40sc04054	2	
11	SL2.40sc03752	3	yes
11	SL2.40sc06137	5	
11	SL2.40sc03876	6	
12	SL2.40sc04607	1	
12	SL2.40sc06147	2	
12	SL2.40sc04039	3	yes
12	SL2.40sc04878	4	

12	SL2.40sc04266	5	
12	SL2.40sc04757	6	
12	SL2.40sc04057	7	
12	SL2.40sc04915	8	
12	SL2.40sc05611	9	
12	SL2.40sc05380	10	

Table 2. Gap sizes between scaffolds determined by FISH.

Chr.	Gap start	Gap end	Size (Mb)
1	SL2.40sc04133	SL2.40sc04191	2.28
1	SL2.40sc04191	SL2.40sc03666	2.13
1	SL2.40sc03666	SL2.40sc03594	0.57
1	SL2.40sc03594	SL2.40sc05010	2.12
1	SL2.40sc05010	SL2.40sc05941	0.51
1	SL2.40sc05941	SL2.40sc06917	0.25
1	SL2.40sc06917	SL2.40sc06903	0.17
1	SL2.40sc06903	SL2.40sc04323	0.21
2	SL2.40sc04732	SL2.40sc04208	0.34
2	SL2.40sc04208	SL2.40sc05776	0.10
2	SL2.40sc05776	SL2.40sc06593	0.10
2	SL2.40sc06593	SL2.40sc04142	3.05
2	SL2.40sc04142	SL2.40sc03766	0.49
2	SL2.40sc03766	SL2.40sc03665	1.34
3	SL2.40sc04439	SL2.40sc04696	0.09
3	SL2.40sc04696	SL2.40sc05330	0.10
3	SL2.40sc05330	SL2.40sc04126	0.32
3	SL2.40sc04126	SL2.40sc04616	2.58
3	SL2.40sc04616	SL2.40sc06725	0.16
3	SL2.40sc06725	SL2.40sc04704	0.74
3	SL2.40sc04704	SL2.40sc04822	1.09
3	SL2.40sc04822	SL2.40sc03806	-0.37
3	SL2.40sc03806	SL2.40sc03796	0.10

	101010	0.0.0	1.0-
3	SL2.40sc03796	SL2.40sc06911	0.07
3	SL2.40sc06911	SL2.40sc03701	0.08
4	SL2.40sc03604	SL2.40sc05339	0.30
4	SL2.40sc05339	SL2.40sc03683	0.47
4	SL2.40sc03683	SL2.40sc06101	0.08
4	SL2.40sc06101	SL2.40sc04680	0.03
4	SL2.40sc04680	SL2.40sc04135	1.53
5	SL2.40sc03726	SL2.40sc06155	0.85
5	SL2.40sc06155	SL2.40sc05339	0.75
6	SL2.40sc04474	SL2.40sc06140	2.34
6	SL2.40sc06140	SL2.40sc05383	0.61
6	SL2.40sc05383	SL2.40sc04279	0.34
6	SL2.40sc04279	SL2.40sc05188	1
6	SL2.40sc05188	SL2.40sc05732	1
6	SL2.40sc05732	SL2.40sc05054	1
6	SL2.40sc05054	SL2.40sc03622	1
7	SL2.40sc03731	SL2.40sc05397	0.39
7	SL2.40sc05397	SL2.40sc03685	2.29
7	SL2.40sc03685	SL2.40sc04626	0.10
8	SL2.40sc04813	SL2.40sc03770	0.10
8	SL2.40sc03770	SL2.40sc04167	0.52
8	SL2.40sc04167	SL2.40sc03749	0.26
8	SL2.40sc03749	SL2.40sc04236	0.10
8	SL2.40sc04236	SL2.40sc03835	0.04
8	SL2.40sc03835	SL2.40sc04701	0.97
8	SL2.40sc04701	SL2.40sc04948	0.80
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9         \$L2.40sc03771         \$L2.40sc04008         1.46           9         \$L2.40sc04008         \$L2.40sc04950         0.72           9         \$L2.40sc04950         \$L2.40sc04785         1.05           9         \$L2.40sc04785         \$L2.40sc04777         1.25           9         \$L2.40sc04777         \$L2.40sc05269         1           9         \$L2.40sc05269         \$L2.40sc03852         1           9         \$L2.40sc03852         \$L2.40sc04828         0.04           9         \$L2.40sc04828         \$L2.40sc06214         0.07           10         \$L2.40sc05925         \$L2.40sc03798         0.10           10         \$L2.40sc03798         \$L2.40sc04872         0.39           10         \$L2.40sc04872         \$L2.40sc064872         0.39           10         \$L2.40sc04872         \$L2.40sc064872         0.10           11         \$L2.40sc05632         \$L2.40sc06763         0.35           11         \$L2.40sc06763         \$L2.40sc06763         0.35           11         \$L2.40sc06763         \$L2.40sc03752         1.31           11         \$L2.40sc04054         \$L2.40sc03752         1.31           12         \$L2.40sc04607         \$L2.40sc06137 <th>8</th> <th>SL2.40sc04948</th> <th>SL2.40sc03923</th> <th>0.04</th>	8	SL2.40sc04948	SL2.40sc03923	0.04
9         SL2.40sc04950         SL2.40sc04785         1.05           9         SL2.40sc04785         SL2.40sc04777         1.25           9         SL2.40sc04777         SL2.40sc05269         1           9         SL2.40sc05269         SL2.40sc03852         1           9         SL2.40sc03852         SL2.40sc04828         0.04           9         SL2.40sc04828         SL2.40sc06214         0.07           10         SL2.40sc05925         SL2.40sc03798         0.10           10         SL2.40sc03798         SL2.40sc04872         0.39           10         SL2.40sc04872         SL2.40sc04872         0.39           10         SL2.40sc05632         SL2.40sc04199         0.10           11         SL2.40sc05632         SL2.40sc06763         0.35           11         SL2.40sc06763         SL2.40sc04054         0.53           11         SL2.40sc04054         SL2.40sc04054         0.53           11         SL2.40sc04054         SL2.40sc04054         0.07           11         SL2.40sc04054         SL2.40sc0406137         0.07           11         SL2.40sc04607         SL2.40sc0406147         0.17           12         SL2.40sc04047         SL2.40sc0426	9	SL2.40sc03771	SL2.40sc04008	1.46
9         SL2.40sc04785         SL2.40sc04777         1.25           9         SL2.40sc04777         SL2.40sc05269         1           9         SL2.40sc05269         SL2.40sc03852         1           9         SL2.40sc03852         SL2.40sc04828         0.04           9         SL2.40sc04828         SL2.40sc06214         0.07           10         SL2.40sc05925         SL2.40sc03798         0.10           10         SL2.40sc03798         SL2.40sc04872         0.39           10         SL2.40sc04872         SL2.40sc05632         0.10           11         SL2.40sc05632         SL2.40sc04199         0.10           11         SL2.40sc03748         SL2.40sc06763         0.35           11         SL2.40sc06763         SL2.40sc04054         0.53           11         SL2.40sc04054         SL2.40sc04054         0.53           11         SL2.40sc04054         SL2.40sc04137         0.07           11         SL2.40sc04054         SL2.40sc06137         0.07           11         SL2.40sc06137         SL2.40sc06147         0.17           12         SL2.40sc04607         SL2.40sc04039         0.01           12         SL2.40sc04039         SL2.40sc04266 </td <td>9</td> <td>SL2.40sc04008</td> <td>SL2.40sc04950</td> <td>0.72</td>	9	SL2.40sc04008	SL2.40sc04950	0.72
9         SL2.40sc04777         SL2.40sc05269         1           9         SL2.40sc05269         SL2.40sc03852         1           9         SL2.40sc03852         SL2.40sc04828         0.04           9         SL2.40sc04828         SL2.40sc06214         0.07           10         SL2.40sc05925         SL2.40sc03798         0.10           10         SL2.40sc03798         SL2.40sc04872         0.39           10         SL2.40sc04872         SL2.40sc05632         0.10           10         SL2.40sc05632         SL2.40sc04199         0.10           11         SL2.40sc03748         SL2.40sc06763         0.35           11         SL2.40sc06763         SL2.40sc04054         0.53           11         SL2.40sc04054         SL2.40sc04054         0.53           11         SL2.40sc04054         SL2.40sc06137         0.07           11         SL2.40sc04054         SL2.40sc06137         0.07           11         SL2.40sc04607         SL2.40sc03876         0.65           12         SL2.40sc04607         SL2.40sc04039         0.01           12         SL2.40sc04039         SL2.40sc04878         0.08           12         SL2.40sc04266         SL2.40sc04757<	9	SL2.40sc04950	SL2.40sc04785	1.05
9       SL2.40sc05269       SL2.40sc03852       1         9       SL2.40sc03852       SL2.40sc04828       0.04         9       SL2.40sc04828       SL2.40sc06214       0.07         10       SL2.40sc05925       SL2.40sc03798       0.10         10       SL2.40sc03798       SL2.40sc04872       0.39         10       SL2.40sc04872       SL2.40sc05632       0.10         11       SL2.40sc05632       SL2.40sc04199       0.10         11       SL2.40sc03748       SL2.40sc06763       0.35         11       SL2.40sc06763       SL2.40sc04054       0.53         11       SL2.40sc04054       SL2.40sc03752       1.31         11       SL2.40sc04054       SL2.40sc06137       0.07         11       SL2.40sc04054       SL2.40sc06137       0.07         12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc04039       SL2.40sc04039       0.01         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611	9	SL2.40sc04785	SL2.40sc04777	1.25
9       SL2.40sc03852       SL2.40sc04828       0.04         9       SL2.40sc04828       SL2.40sc06214       0.07         10       SL2.40sc05925       SL2.40sc03798       0.10         10       SL2.40sc03798       SL2.40sc04872       0.39         10       SL2.40sc04872       SL2.40sc05632       0.10         10       SL2.40sc05632       SL2.40sc04199       0.10         11       SL2.40sc03748       SL2.40sc06763       0.35         11       SL2.40sc06763       SL2.40sc04054       0.53         11       SL2.40sc04054       SL2.40sc03752       1.31         11       SL2.40sc03752       SL2.40sc06137       0.07         11       SL2.40sc03752       SL2.40sc03876       0.65         12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc04039       SL2.40sc04039       0.01         12       SL2.40sc04078       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	9	SL2.40sc04777	SL2.40sc05269	1
9 SL2.40sc04828 SL2.40sc06214 0.07  10 SL2.40sc05925 SL2.40sc03798 0.10  10 SL2.40sc03798 SL2.40sc04872 0.39  10 SL2.40sc04872 SL2.40sc05632 0.10  11 SL2.40sc05632 SL2.40sc04199 0.10  11 SL2.40sc03748 SL2.40sc06763 0.35  11 SL2.40sc06763 SL2.40sc04054 0.53  11 SL2.40sc04054 SL2.40sc03752 1.31  11 SL2.40sc03752 SL2.40sc06137 0.07  11 SL2.40sc06137 SL2.40sc03876 0.65  12 SL2.40sc04607 SL2.40sc06147 0.17  12 SL2.40sc06147 SL2.40sc04039 0.01  12 SL2.40sc04039 SL2.40sc04878 0.08  12 SL2.40sc04878 SL2.40sc04266 0.55  12 SL2.40sc04266 SL2.40sc04757 0.47  12 SL2.40sc04266 SL2.40sc04915 0.01  12 SL2.40sc04915 SL2.40sc05611 0.07	9	SL2.40sc05269	SL2.40sc03852	1
10         SL2.40sc05925         SL2.40sc03798         0.10           10         SL2.40sc03798         SL2.40sc04872         0.39           10         SL2.40sc04872         SL2.40sc05632         0.10           10         SL2.40sc05632         SL2.40sc04199         0.10           11         SL2.40sc03748         SL2.40sc06763         0.35           11         SL2.40sc06763         SL2.40sc04054         0.53           11         SL2.40sc04054         SL2.40sc03752         1.31           11         SL2.40sc03752         SL2.40sc06137         0.07           11         SL2.40sc06137         SL2.40sc06147         0.17           12         SL2.40sc04607         SL2.40sc06147         0.17           12         SL2.40sc04039         SL2.40sc04039         0.01           12         SL2.40sc04878         SL2.40sc04878         0.08           12         SL2.40sc04266         SL2.40sc04266         0.55           12         SL2.40sc04266         SL2.40sc04757         0.47           12         SL2.40sc04057         SL2.40sc04915         0.01           12         SL2.40sc04915         SL2.40sc05611         0.07	9	SL2.40sc03852	SL2.40sc04828	0.04
10       SL2.40sc03798       SL2.40sc04872       0.39         10       SL2.40sc04872       SL2.40sc05632       0.10         10       SL2.40sc05632       SL2.40sc04199       0.10         11       SL2.40sc03748       SL2.40sc06763       0.35         11       SL2.40sc06763       SL2.40sc04054       0.53         11       SL2.40sc04054       SL2.40sc03752       1.31         11       SL2.40sc03752       SL2.40sc06137       0.07         11       SL2.40sc06137       SL2.40sc03876       0.65         12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc04607       SL2.40sc04039       0.01         12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	9	SL2.40sc04828	SL2.40sc06214	0.07
10       SL2.40sc04872       SL2.40sc05632       0.10         10       SL2.40sc05632       SL2.40sc04199       0.10         11       SL2.40sc03748       SL2.40sc06763       0.35         11       SL2.40sc06763       SL2.40sc04054       0.53         11       SL2.40sc04054       SL2.40sc03752       1.31         11       SL2.40sc03752       SL2.40sc06137       0.07         11       SL2.40sc06137       SL2.40sc03876       0.65         12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc04039       SL2.40sc04039       0.01         12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04266       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	10	SL2.40sc05925	SL2.40sc03798	0.10
10       SL2.40sc05632       SL2.40sc04199       0.10         11       SL2.40sc03748       SL2.40sc06763       0.35         11       SL2.40sc06763       SL2.40sc04054       0.53         11       SL2.40sc04054       SL2.40sc03752       1.31         11       SL2.40sc03752       SL2.40sc06137       0.07         11       SL2.40sc06137       SL2.40sc03876       0.65         12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc040407       SL2.40sc04039       0.01         12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	10	SL2.40sc03798	SL2.40sc04872	0.39
11       SL2.40sc03748       SL2.40sc06763       0.35         11       SL2.40sc06763       SL2.40sc04054       0.53         11       SL2.40sc04054       SL2.40sc03752       1.31         11       SL2.40sc03752       SL2.40sc06137       0.07         11       SL2.40sc06137       SL2.40sc03876       0.65         12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc06147       SL2.40sc04039       0.01         12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	10	SL2.40sc04872	SL2.40sc05632	0.10
11       SL2.40sc06763       SL2.40sc04054       0.53         11       SL2.40sc04054       SL2.40sc03752       1.31         11       SL2.40sc03752       SL2.40sc06137       0.07         11       SL2.40sc06137       SL2.40sc03876       0.65         12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc06147       SL2.40sc04039       0.01         12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	10	SL2.40sc05632	SL2.40sc04199	0.10
11       SL2.40sc04054       SL2.40sc03752       1.31         11       SL2.40sc03752       SL2.40sc06137       0.07         11       SL2.40sc06137       SL2.40sc03876       0.65         12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc06147       SL2.40sc04039       0.01         12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	11	SL2.40sc03748	SL2.40sc06763	0.35
11       SL2.40sc03752       SL2.40sc06137       0.07         11       SL2.40sc06137       SL2.40sc03876       0.65         12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc06147       SL2.40sc04039       0.01         12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	11	SL2.40sc06763	SL2.40sc04054	0.53
11       SL2.40sc06137       SL2.40sc03876       0.65         12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc06147       SL2.40sc04039       0.01         12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	11	SL2.40sc04054	SL2.40sc03752	1.31
12       SL2.40sc04607       SL2.40sc06147       0.17         12       SL2.40sc06147       SL2.40sc04039       0.01         12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	11	SL2.40sc03752	SL2.40sc06137	0.07
12       SL2.40sc06147       SL2.40sc04039       0.01         12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	11	SL2.40sc06137	SL2.40sc03876	0.65
12       SL2.40sc04039       SL2.40sc04878       0.08         12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	12	SL2.40sc04607	SL2.40sc06147	0.17
12       SL2.40sc04878       SL2.40sc04266       0.55         12       SL2.40sc04266       SL2.40sc04757       0.47         12       SL2.40sc04057       SL2.40sc04915       0.01         12       SL2.40sc04915       SL2.40sc05611       0.07	12	SL2.40sc06147	SL2.40sc04039	0.01
12     SL2.40sc04266     SL2.40sc04757     0.47       12     SL2.40sc04057     SL2.40sc04915     0.01       12     SL2.40sc04915     SL2.40sc05611     0.07	12	SL2.40sc04039	SL2.40sc04878	0.08
12 SL2.40sc04057 SL2.40sc04915 0.01 12 SL2.40sc04915 SL2.40sc05611 0.07	12	SL2.40sc04878	SL2.40sc04266	0.55
12 SL2.40sc04915 SL2.40sc05611 0.07	12	SL2.40sc04266	SL2.40sc04757	0.47
	12	SL2.40sc04057	SL2.40sc04915	0.01
12 SL2.40sc05611 SL2.40sc05380 0.01	12	SL2.40sc04915	SL2.40sc05611	0.07
	12	SL2.40sc05611	SL2.40sc05380	0.01

Figure 1. Chromosome 1: Dotplot of original vs FISH-modified chromosome sequence.

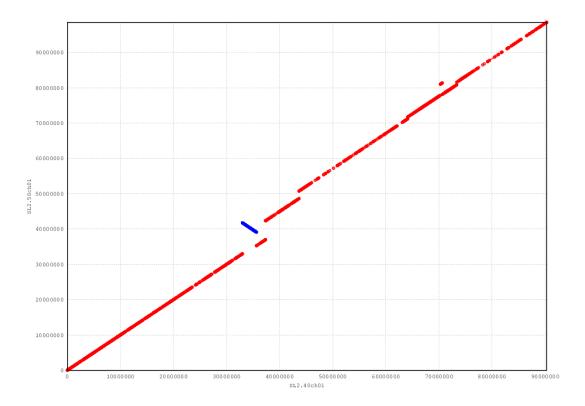


Figure 2. Chromosome 2: Dotplot of original vs FISH-modified chromosome sequence.

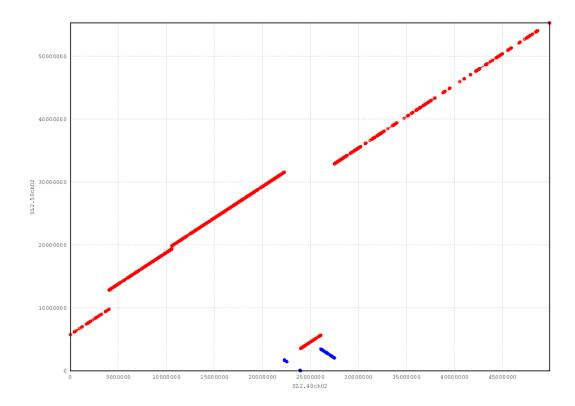


Figure 3. Chromosome 3: Dotplot of original vs FISH-modified chromosome sequence.

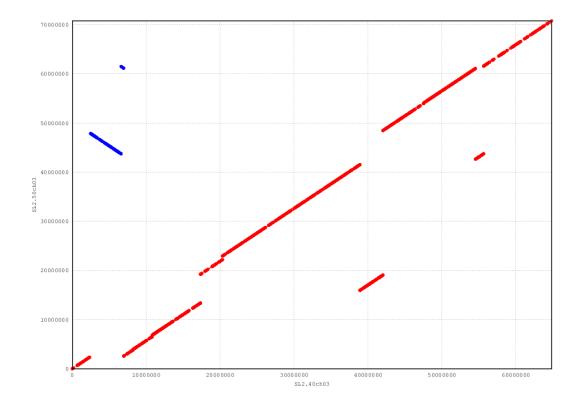


Figure 4. Chromosome 4: Dotplot of original vs FISH-modified chromosome sequence.

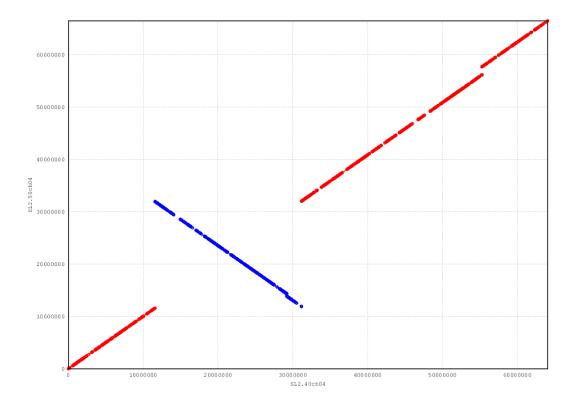


Figure 5. Chromosome 5: Dotplot of original vs FISH-modified chromosome sequence.

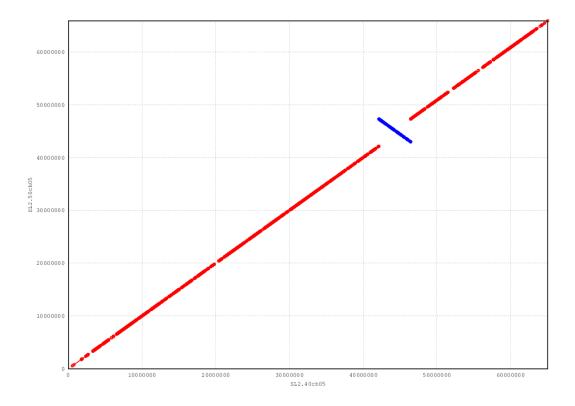


Figure 6. Chromosome 6: Dotplot of original vs FISH-modified chromosome sequence.

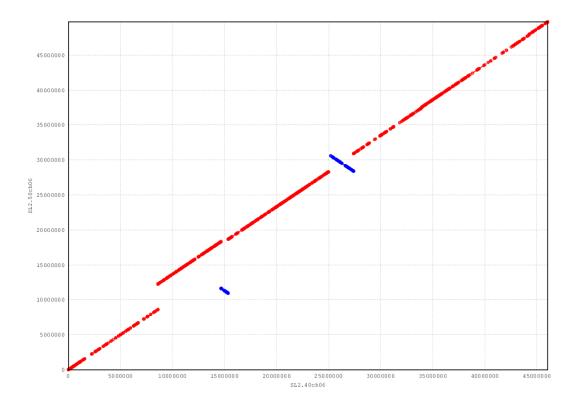


Figure 7. Chromosome 7: Dotplot of original vs FISH-modified chromosome sequence.

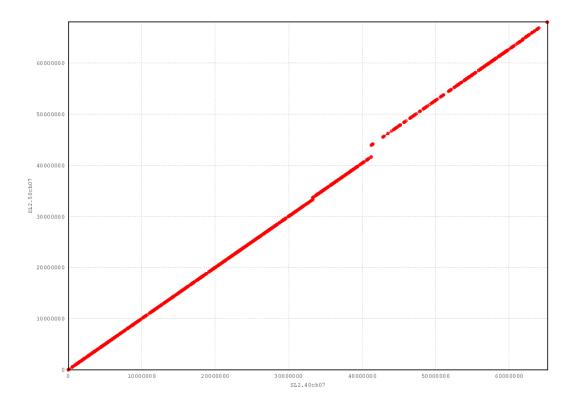


Figure 8. Chromosome 8: Dotplot of original vs FISH-modified chromosome sequence.

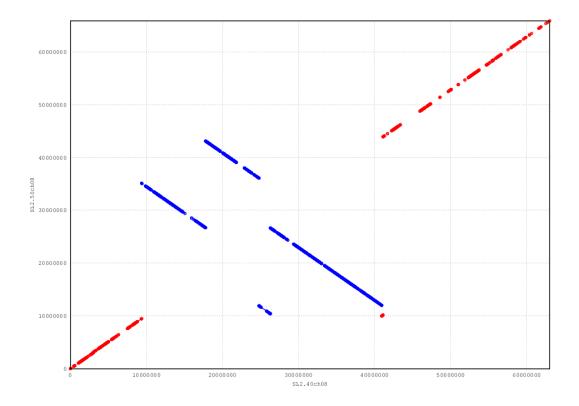


Figure 9. Chromosome 9: Dotplot of original vs FISH-modified chromosome sequence.

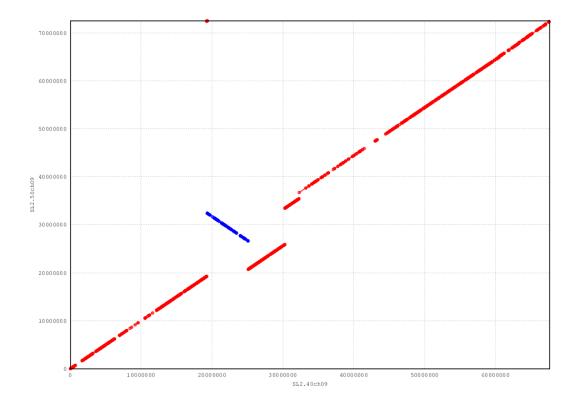


Figure 10. Chromosome 10: Dotplot of original vs FISH-modified chromosome sequence.

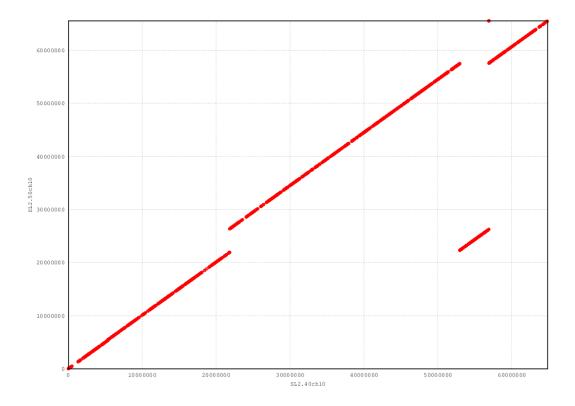


Figure 11. Chromosome 11: Dotplot of original vs FISH-modified chromosome sequence.

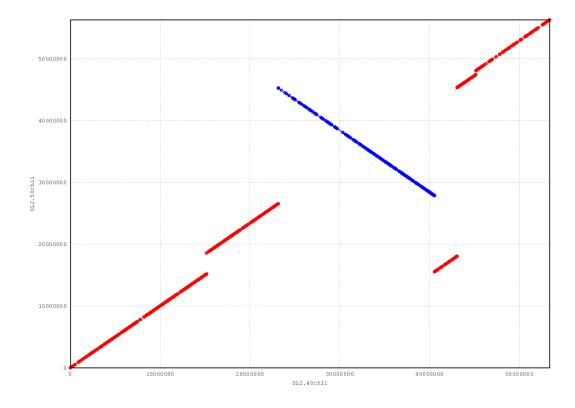


Figure 12. Chromosome 12: Dotplot of original vs FISH-modified chromosome sequence.

