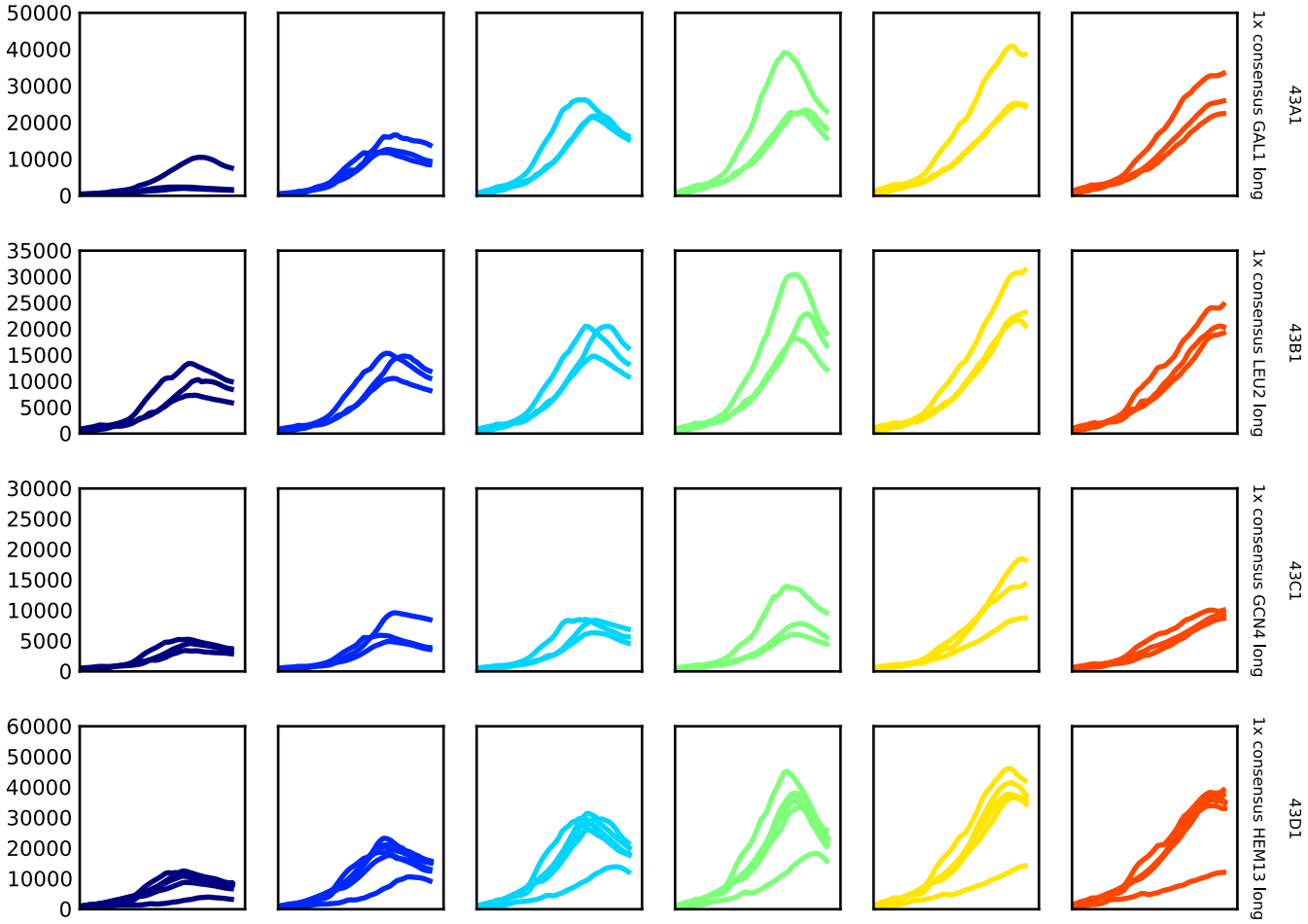
Page 1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40000
30000
20000
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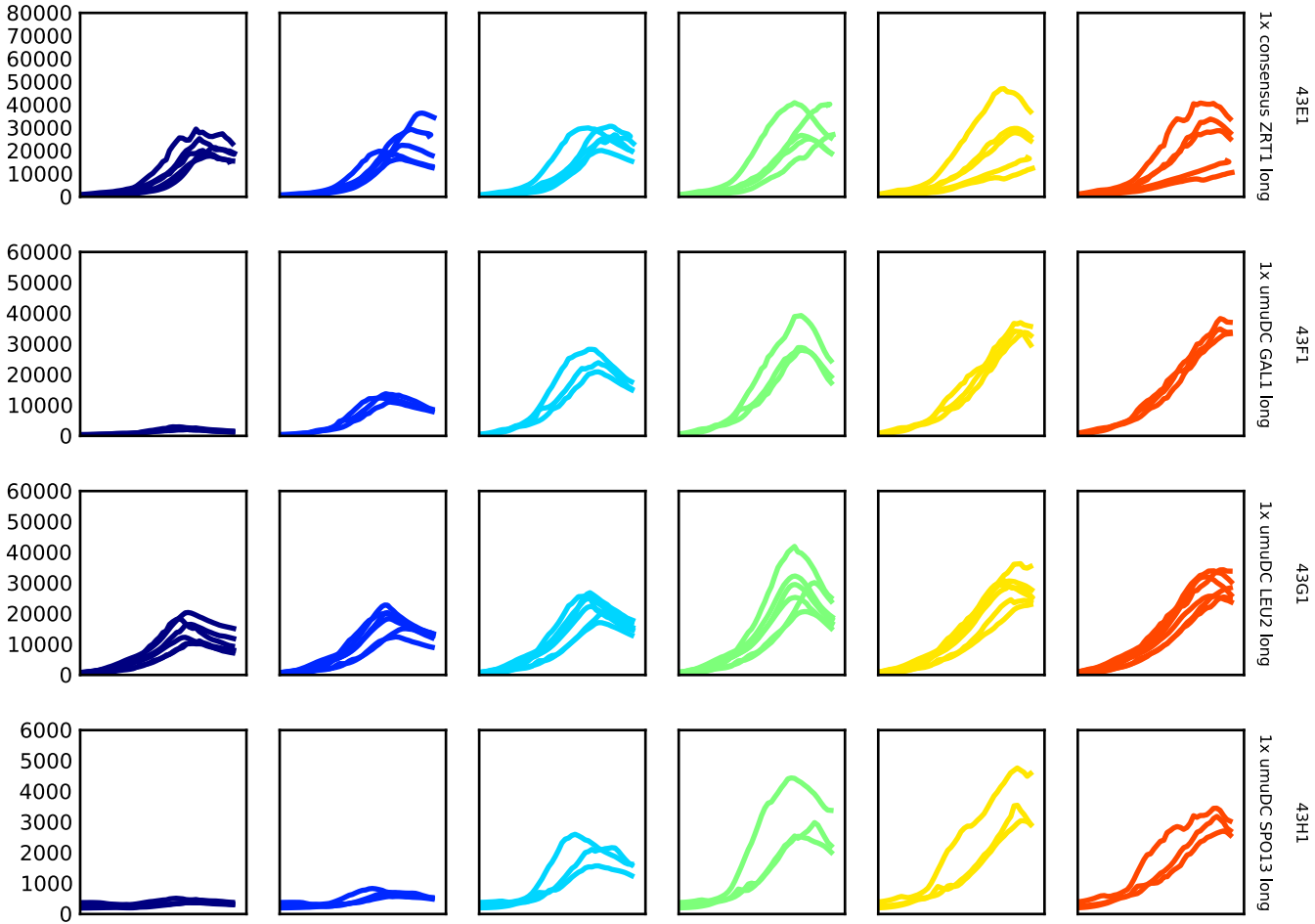
1x consensus GAL1 long
43A1
35000
30000
25000
20000
15000
10000
5000
0
1x consensus LEU2 long
43B1
30000
25000
20000
15000
10000
5000
0
1x consensus GCN4 long
43C1
60000
50000
40000
30000
20000
10000
0
1x consensus HEM13 long
43D1

Page 2


43E1
1x consensus ZRT1 long
43F1
1x umuDC GAL1 long
43G1
1x umuDC LEU2 long
43H1
1x umuDC SPO13 long
80000
70000
60000
50000
40000
30000
20000
10000
0
60000
50000
40000
30000
20000
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40000
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20000
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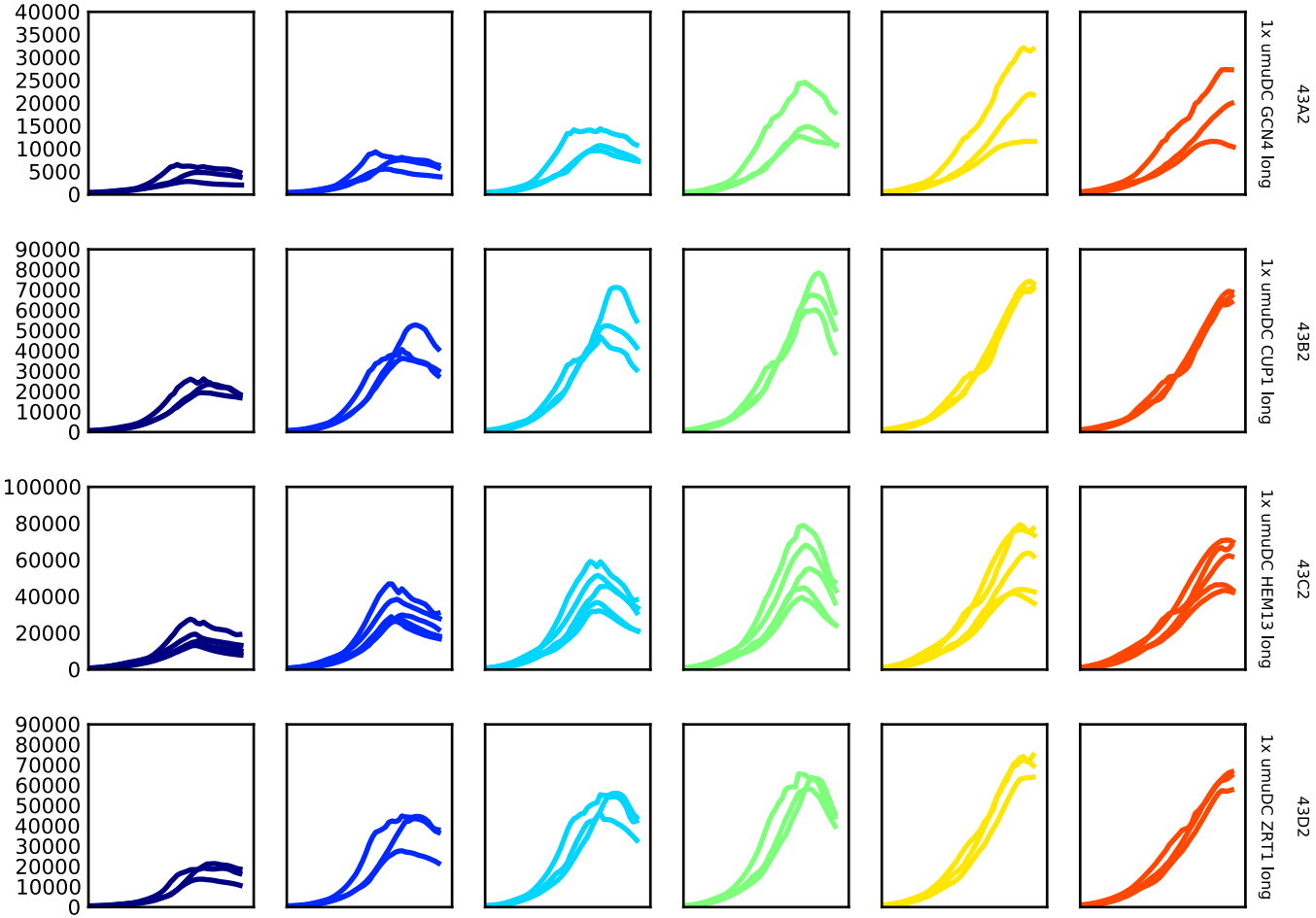
6000
5000
4000
3000
2000
1000
0

Page 3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35000
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80000
70000
60000
50000
40000
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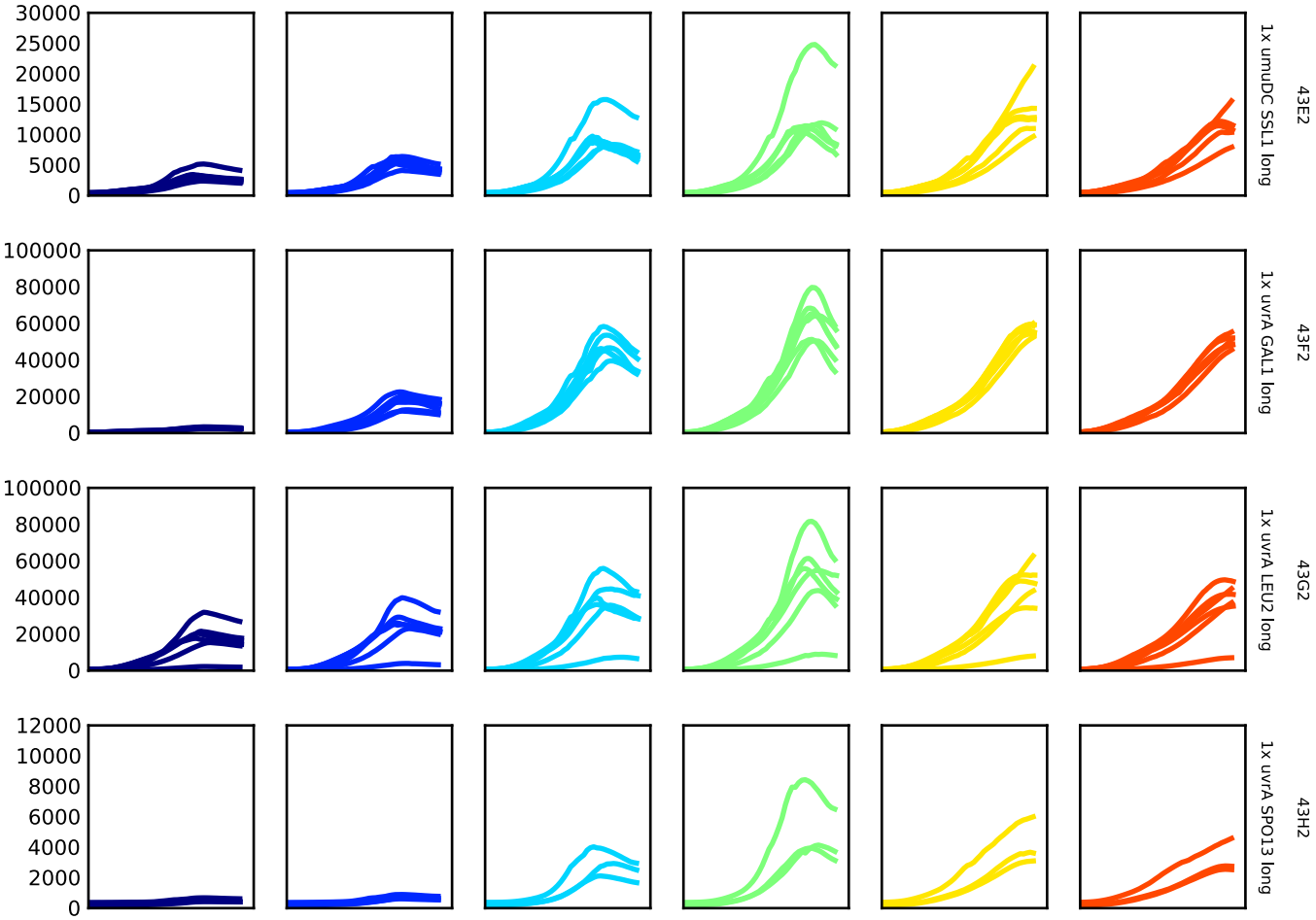
20000
10000
0
100000
80000
60000
40000
20000
0
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
43A2
1x umuDC GCN4 long
43B2
1x umuDC CUP1 long
43C2
1x umuDC HEM13 long
43D2
1x umuDC ZRT1 long

Page 4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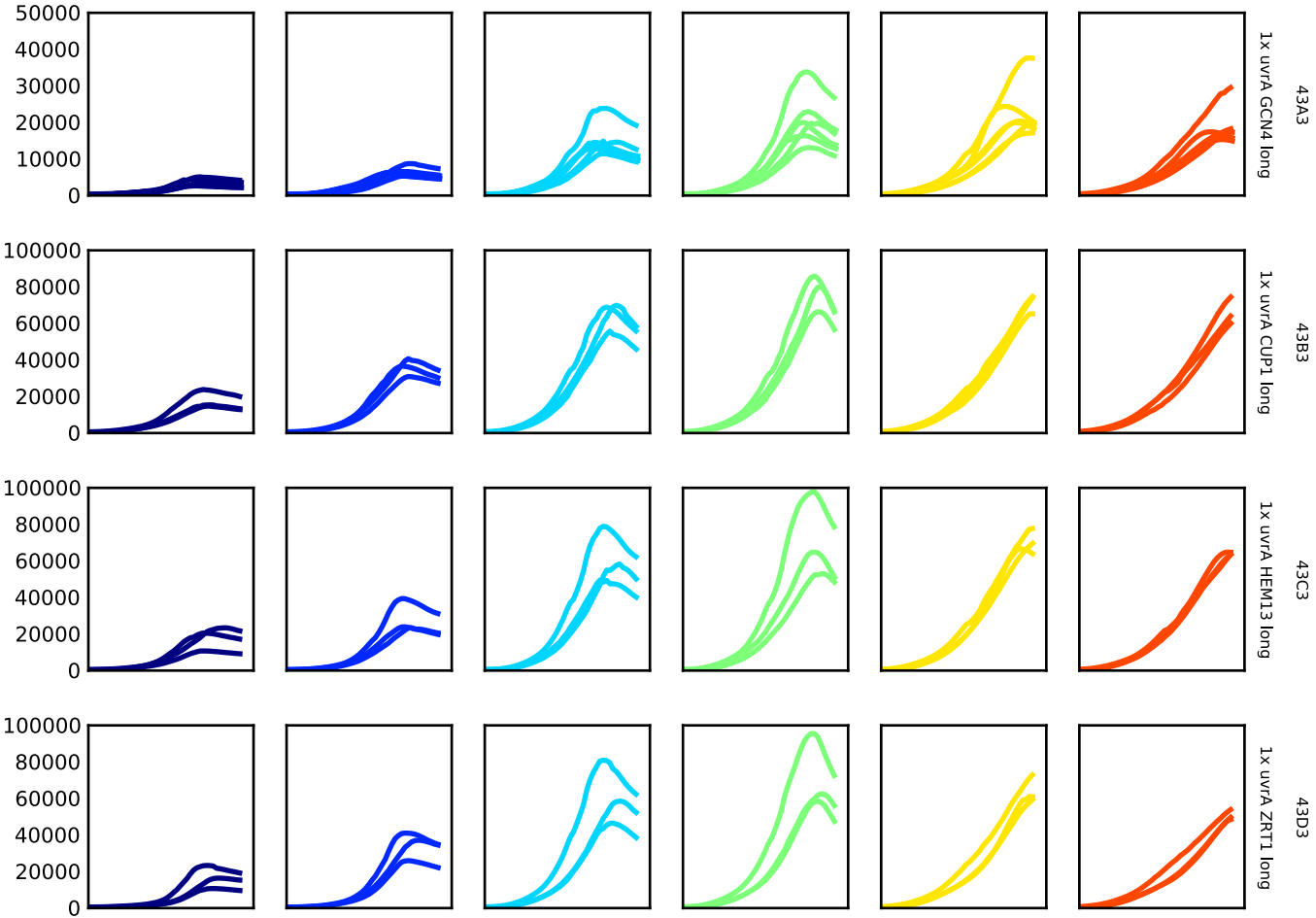
25000
20000
15000
10000
5000
0
100000
80000
60000
40000
20000
0
100000
80000
60000
40000
20000
0
12000
10000
8000
6000
4000
2000
0
43E2
1x umuDC SSL1 long
43F2
1x uvrA GAL1 long
43G2
1x uvrA LEU2 long
43H2
1x uvrA SPO13 long

Page 5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40000
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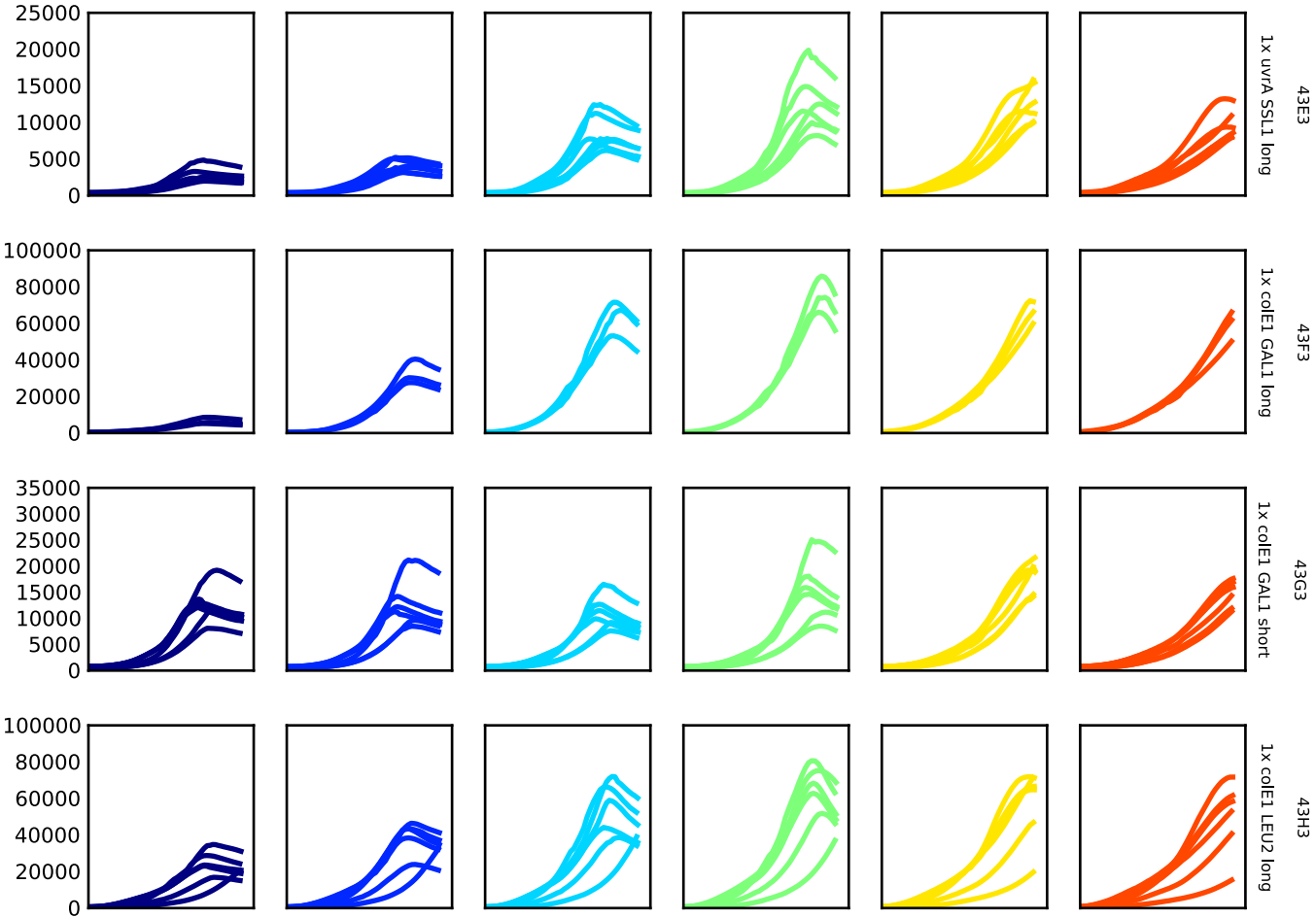
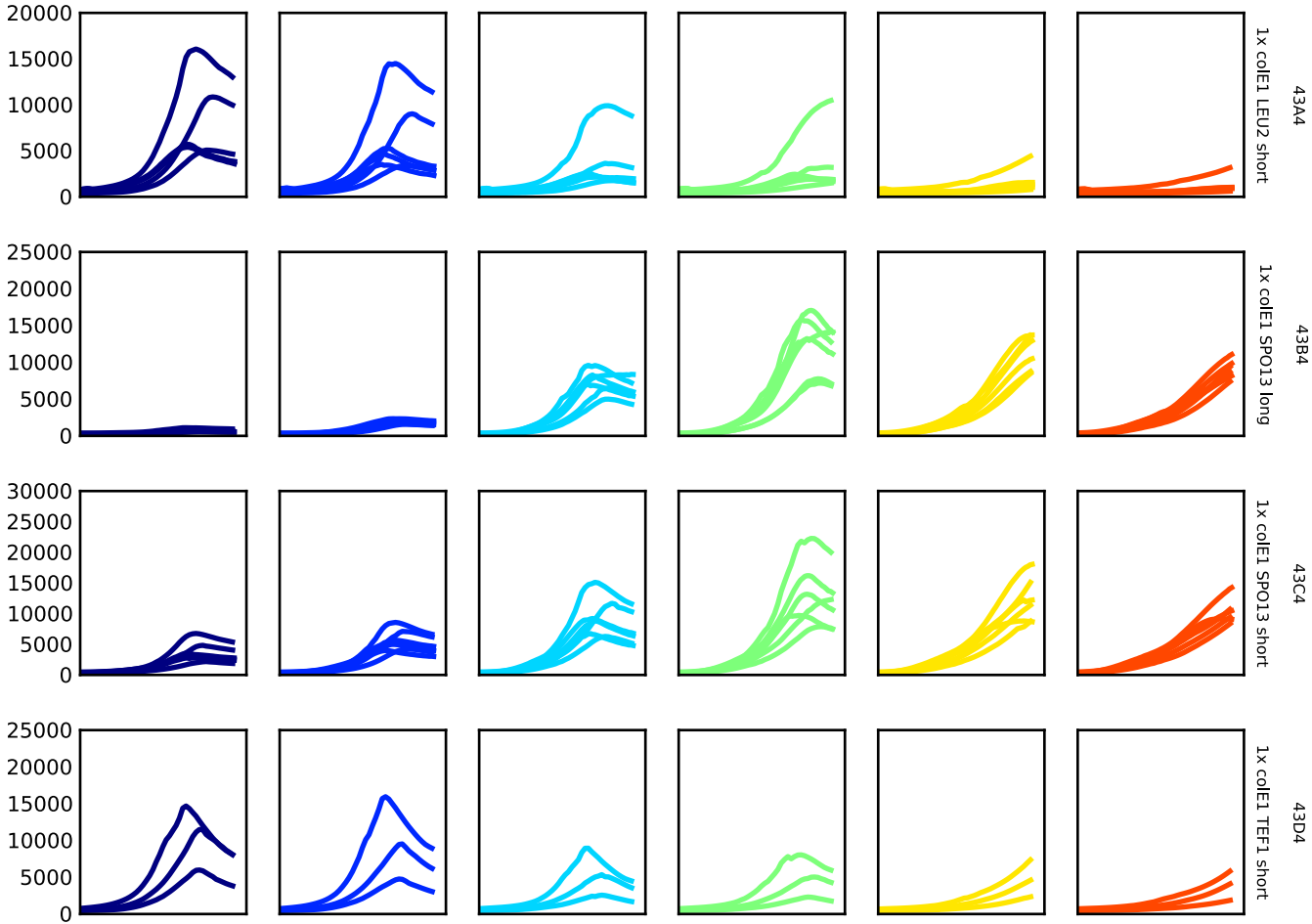
80000
60000
40000
20000
0
100000
80000
60000
40000
20000
0
100000
80000
60000
40000
20000
0
43A3
1x uvrA GCN4 long
43B3
1x uvrA CUP1 long
43C3
1x uvrA HEM13 long
43D3
1x uvrA ZRT1 long

Page 6


43E3
1x uvrA SSL1 long
43F3
1x colE1 GAL1 long
43G3
1x colE1 GAL1 short
43H3
1x colE1 LEU2 long
25000
20000
15000
10000
5000
0
100000
80000
60000
40000
20000
0
35000
30000
25000
20000
15000
10000
5000
0
100000
80000
60000
40000
20000
0

Page 7


43A4
1x colE1 LEU2 short
43B4
1x colE1 SPO13 long
43C4
1x colE1 SPO13 short
43D4
1x colE1 TEF1 short
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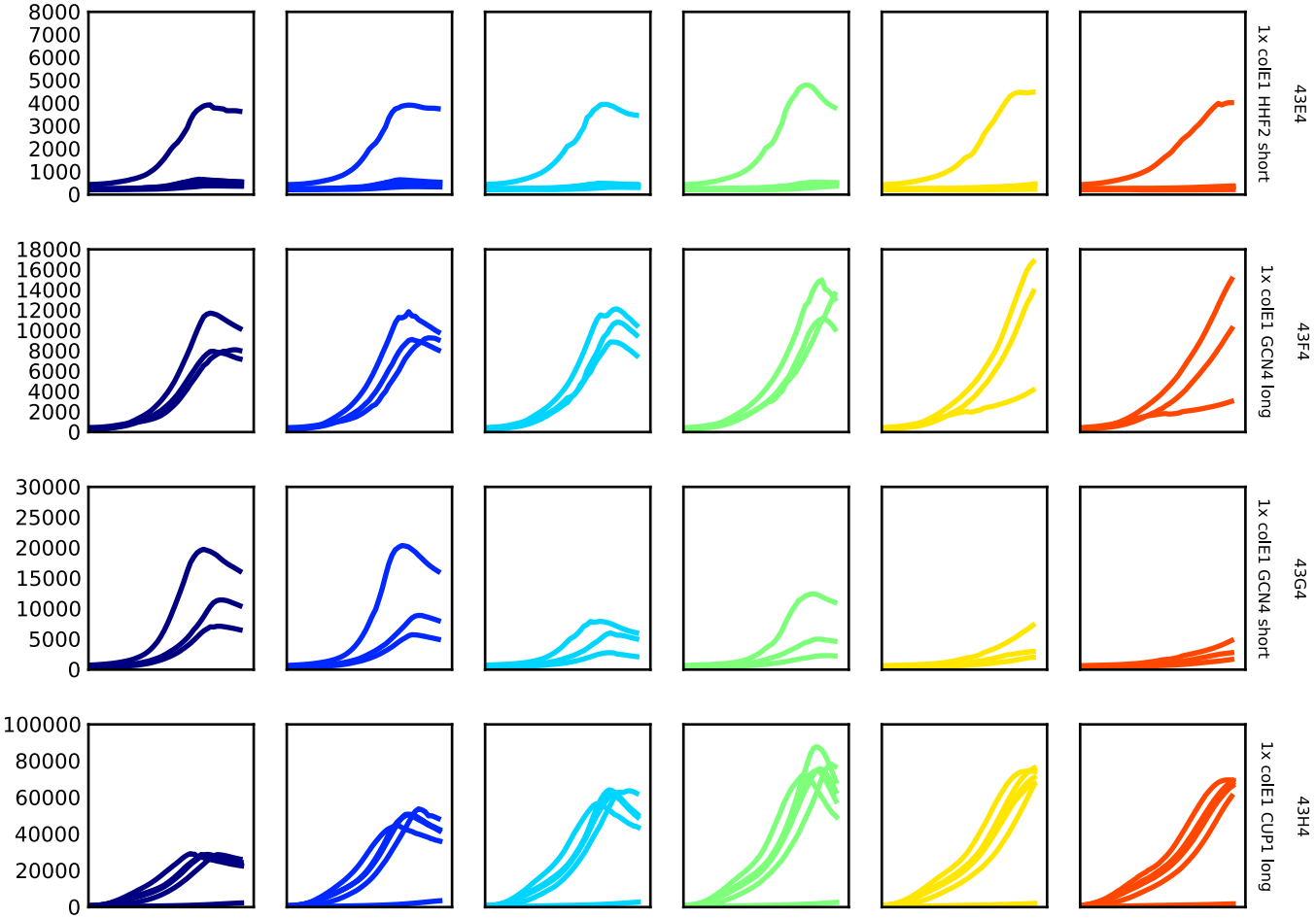
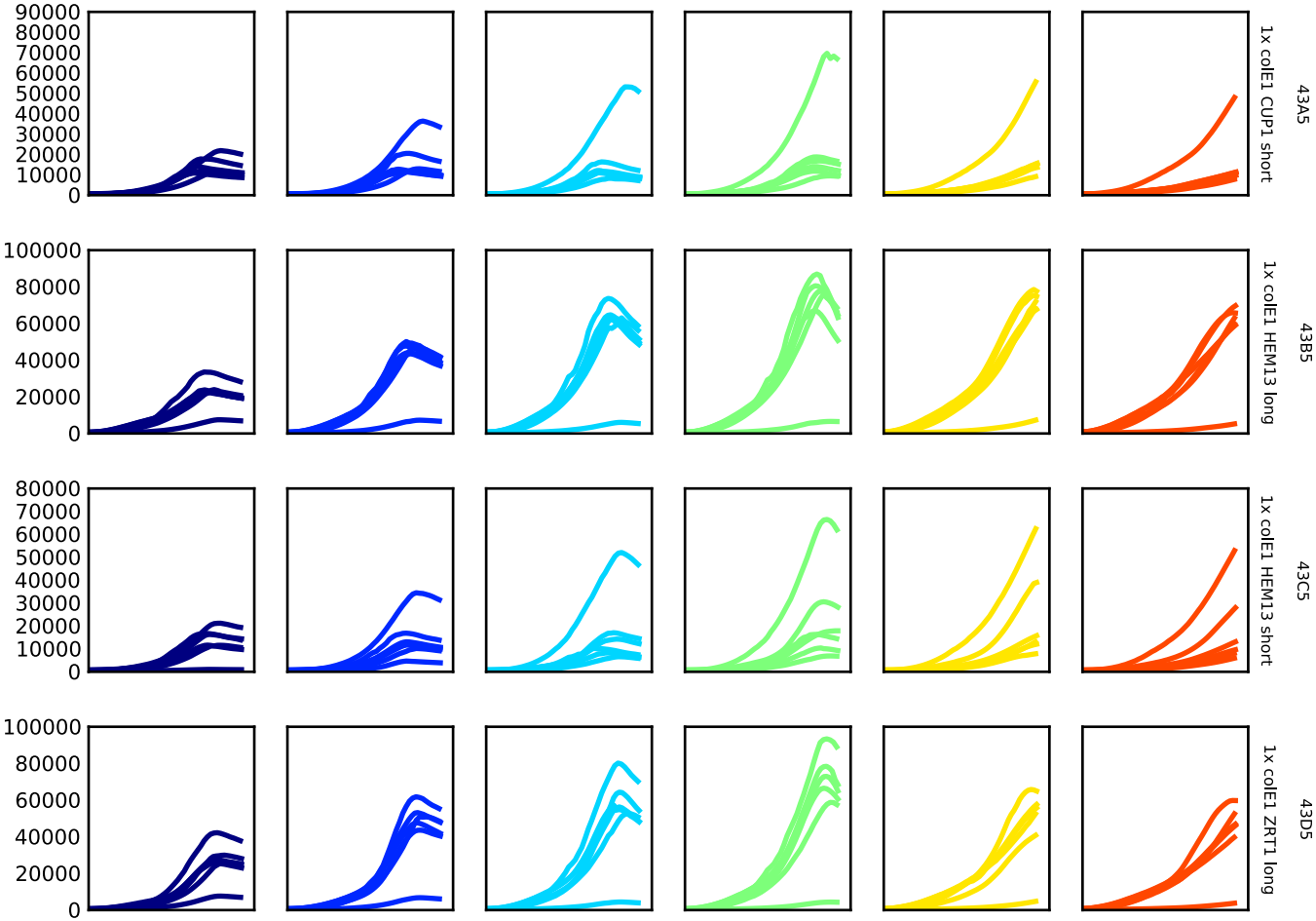
10000
15000
20000
25000
30000

Page 8


43E4
1x colE1 HHF2 short
43F4
1x colE1 GCN4 long
43G4
1x colE1 GCN4 short
43H4
1x colE1 CUP1 long
8000
7000
6000
5000
4000
3000
2000
1000
0
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
30000
25000
20000
15000
10000
5000
0
100000
80000
60000
40000
20000
0

Page 9


43A5
1x colE1 CUP1 short
43B5
1x colE1 HEM13 long
43C5
1x colE1 HEM13 short
43D5
1x colE1 ZRT1 long
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
100000
80000
60000
40000
20000
0
80000
70000
60000
50000
40000
30000
20000
10000
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80000
60000
40000
20000
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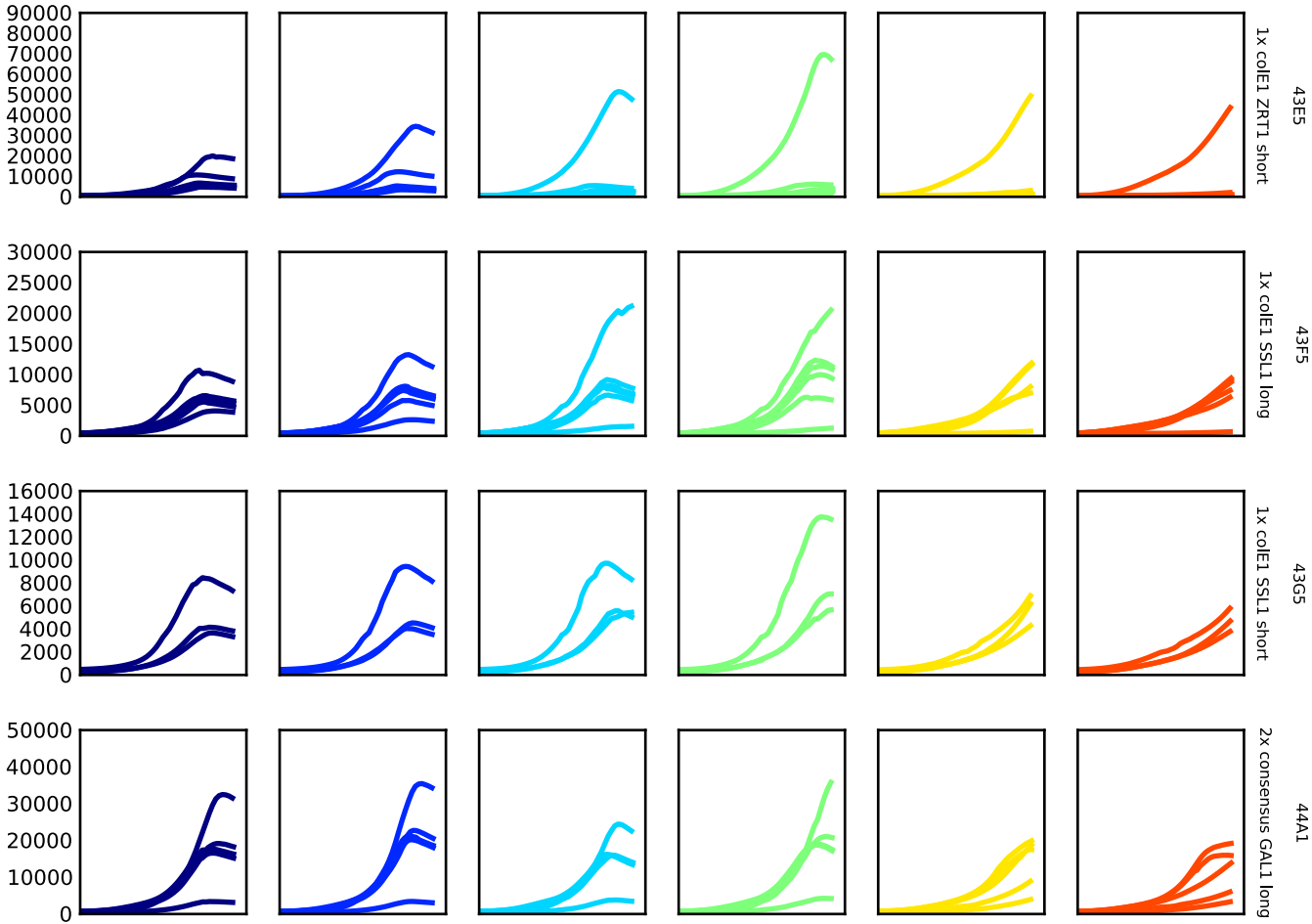
Page 10


43E5
1x colE1 ZRT1 short
43F5
1x colE1 SSL1 long
43G5
1x colE1 SSL1 short
44A1
2x consensus GAL1 long
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
30000
25000
20000
15000
10000
5000
0
16000
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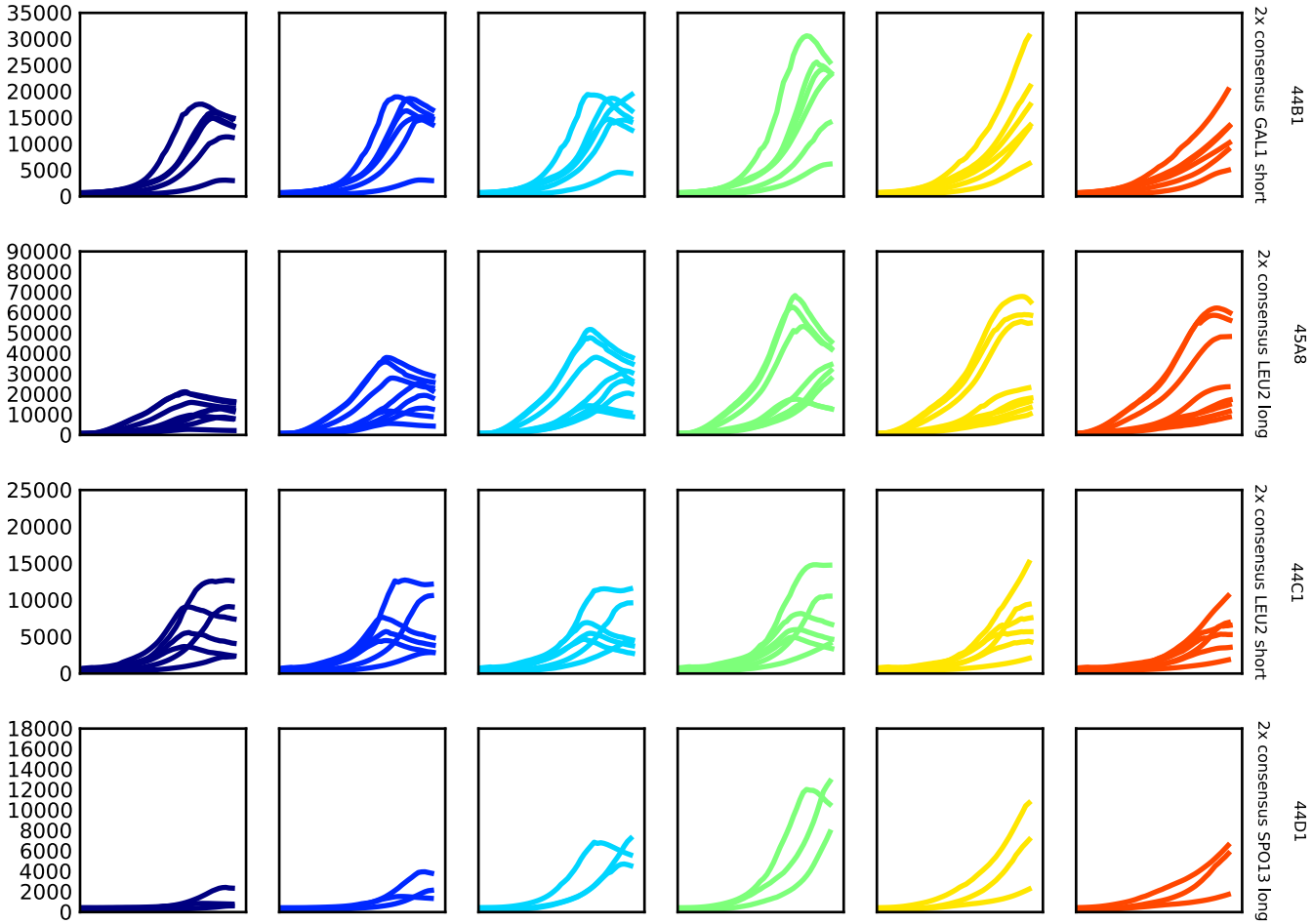
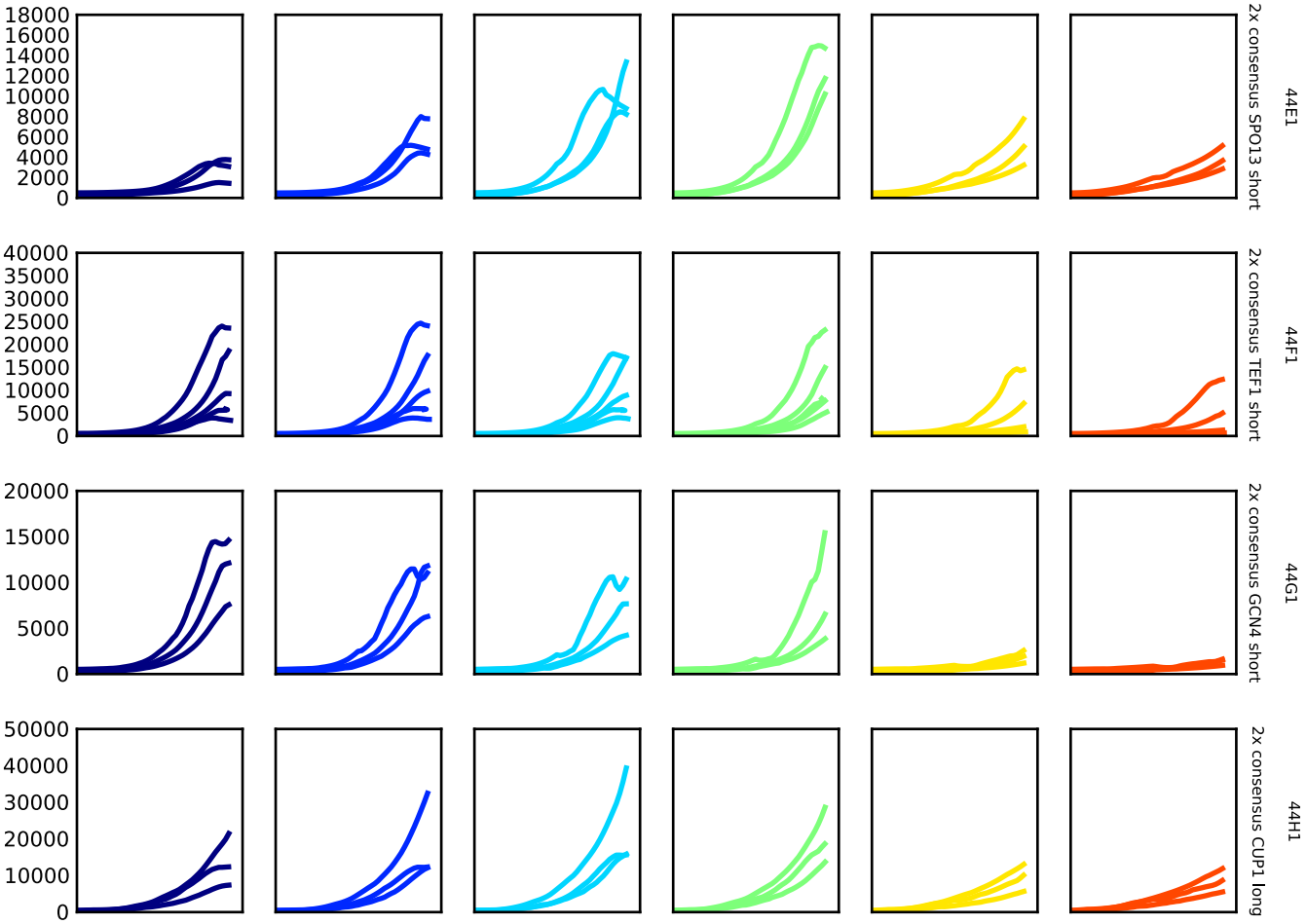
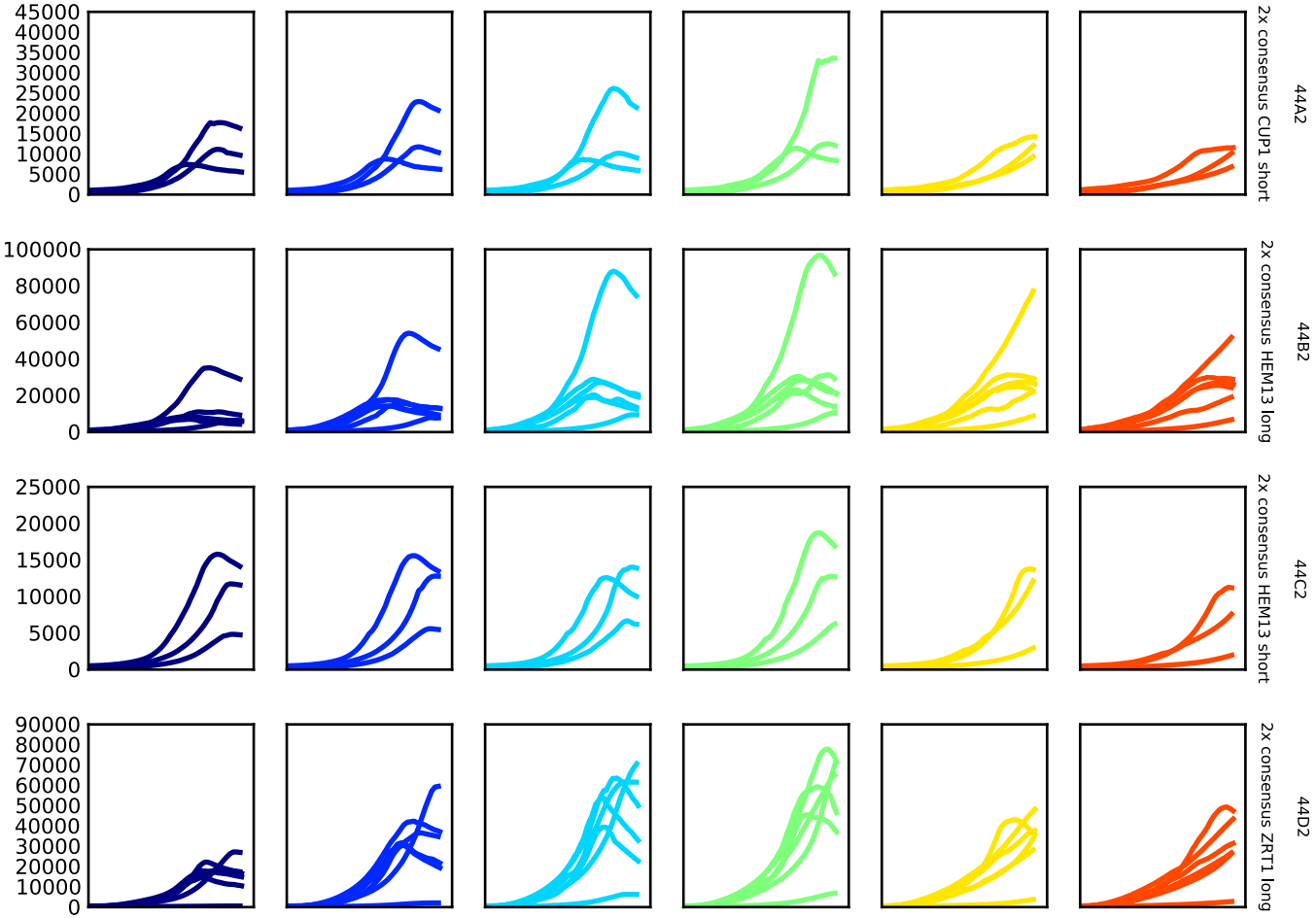
12000
10000
8000
6000
4000
2000
0
50000
40000
30000
20000
10000
0

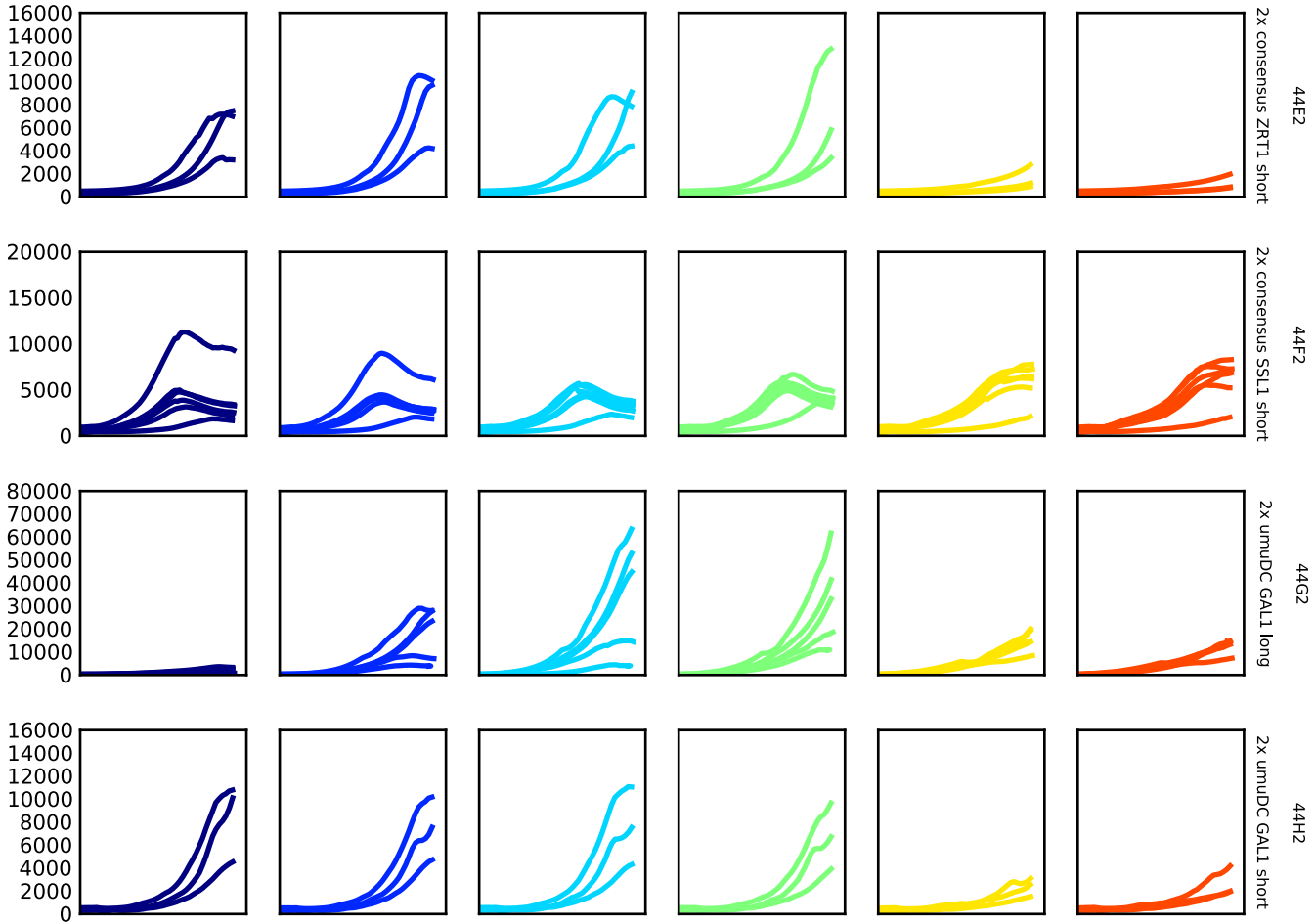
Page 11


35000
30000
25000
20000
15000
10000
5000
0
2x consensus GAL1 short
44B1
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
2x consensus LEU2 long
45A8
25000
20000
15000
10000
5000
0
2x consensus LEU2 short
44C1
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2x consensus SPO13 long
44D1

Page 12


18000
16000
14000
12000
10000
8000
6000
4000
2000
0
40000
35000
30000
25000
20000
15000
10000
5000
0
20000
15000
10000
5000
0
50000
40000
30000
20000
10000
0
2x consensus SPO13 short
2x consensus TEF1 short
2x consensus GCN4 short
2x consensus CUP1 long
44E1
44F1
44G1
44H1


45000
40000
35000
30000
25000
20000
15000
10000
5000
0
100000
80000
60000
40000
20000
0
25000
20000
15000
10000
5000
0
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
44A2
2x consensus CUP1 short
44B2
2x consensus HEM13 long
44C2
2x consensus HEM13 short
44D2
2x consensus ZRT1 long


44E2
2x consensus ZRT1 short
44F2
2x consensus SSL1 short
44G2
2x umuDC GAL1 long
44H2
2x umuDC GAL1 short
16000
14000
12000
10000
8000
6000
4000
2000
0
20000
15000
10000
5000
0
80000
70000
60000
50000
40000
30000
20000
10000
0
16000
14000
12000
10000
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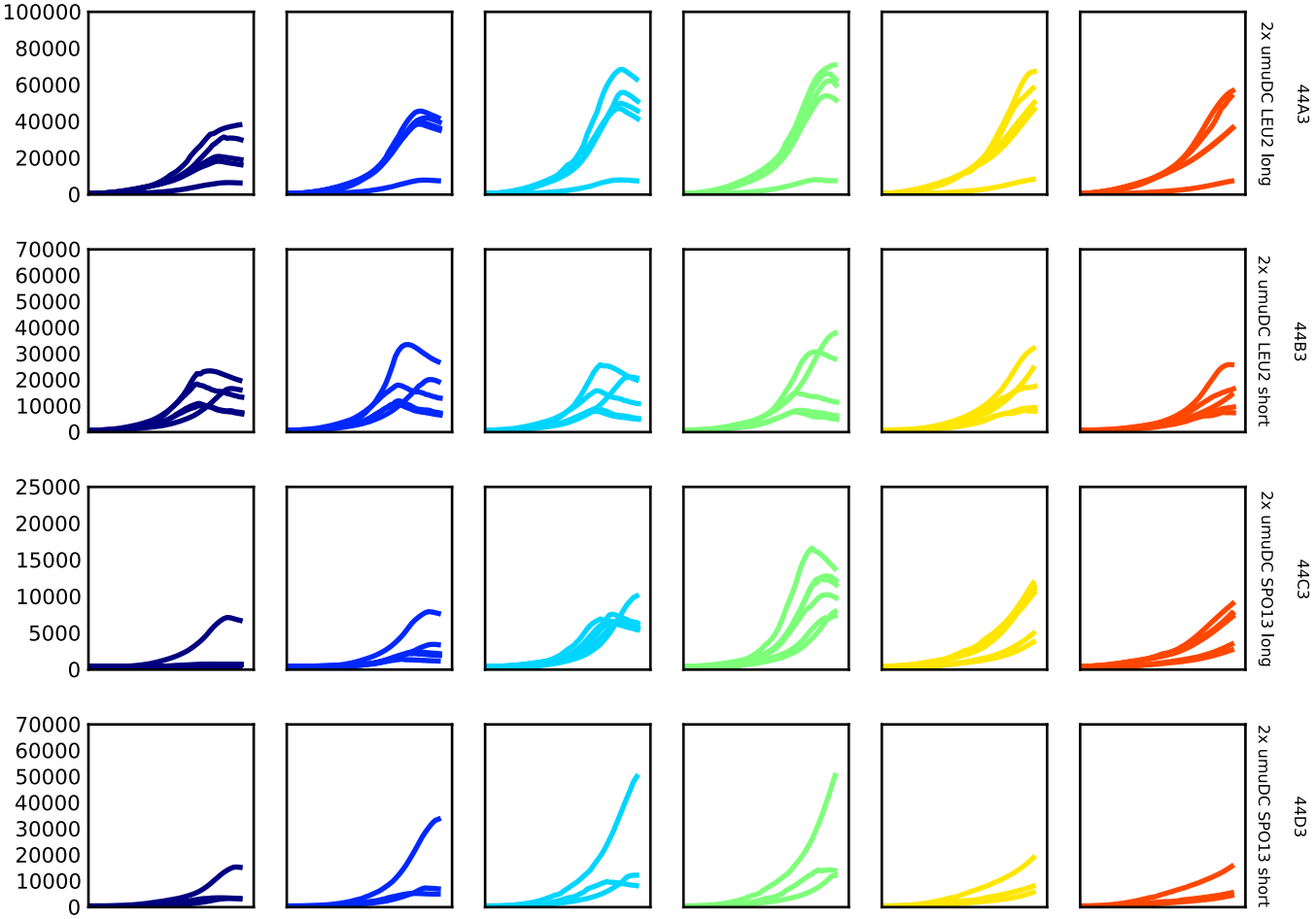
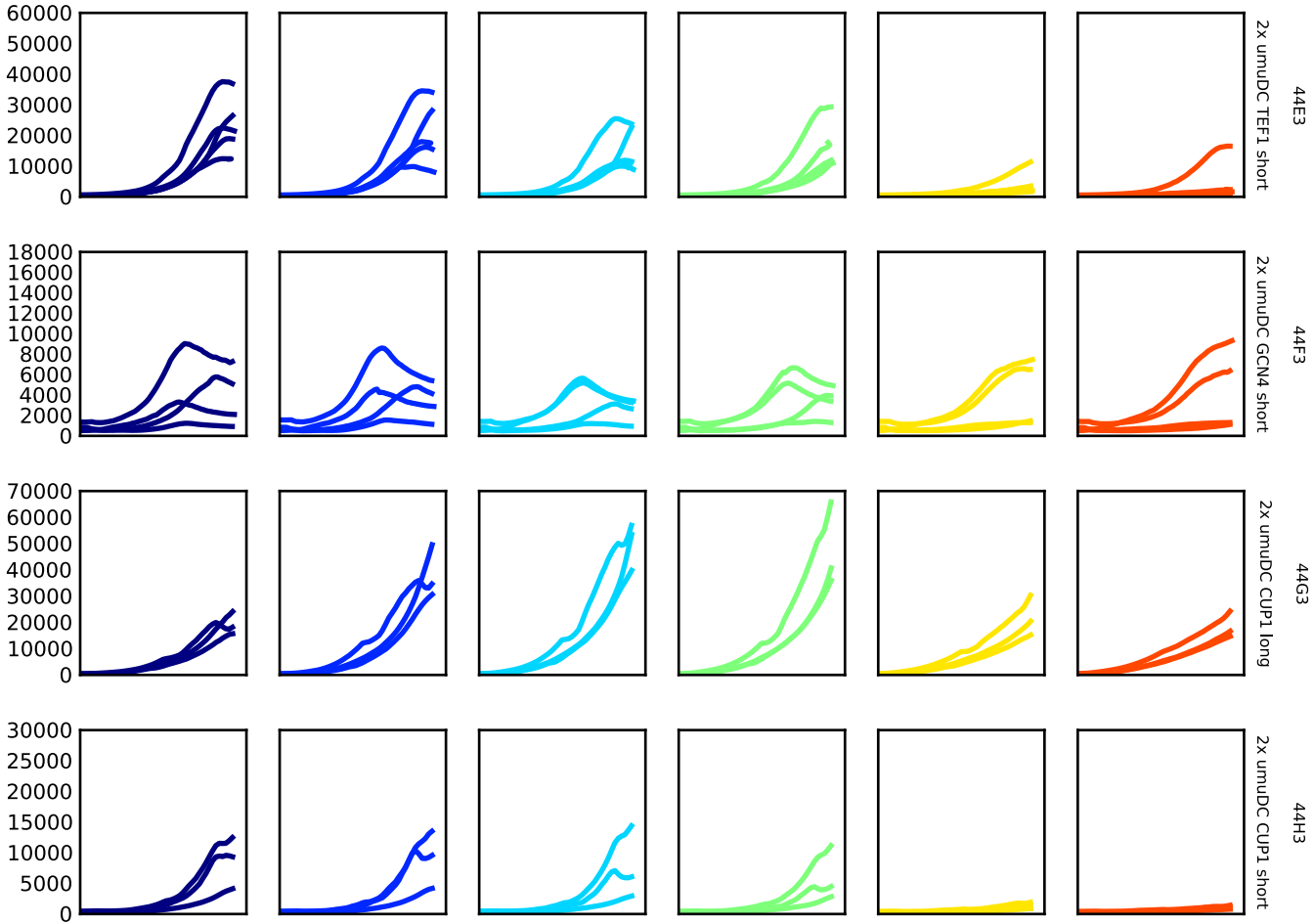
6000
4000
2000
0


44A3
2x umuDC LEU2 long
44B3
2x umuDC LEU2 short
44C3
2x umuDC SPO13 long
44D3
2x umuDC SPO13 short
100000
80000
60000
40000
20000
0
70000
60000
50000
40000
30000
20000
10000
0
25000
20000
15000
10000
5000
0
70000
60000
50000
40000
30000
20000
10000
0


44E3
2x umuDC TEF1 short
44F3
2x umuDC GCN4 short
44G3
2x umuDC CUP1 long
44H3
2x umuDC CUP1 short
60000
50000
40000
30000
20000
10000
0
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
70000
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50000
40000
30000
20000
10000
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30000
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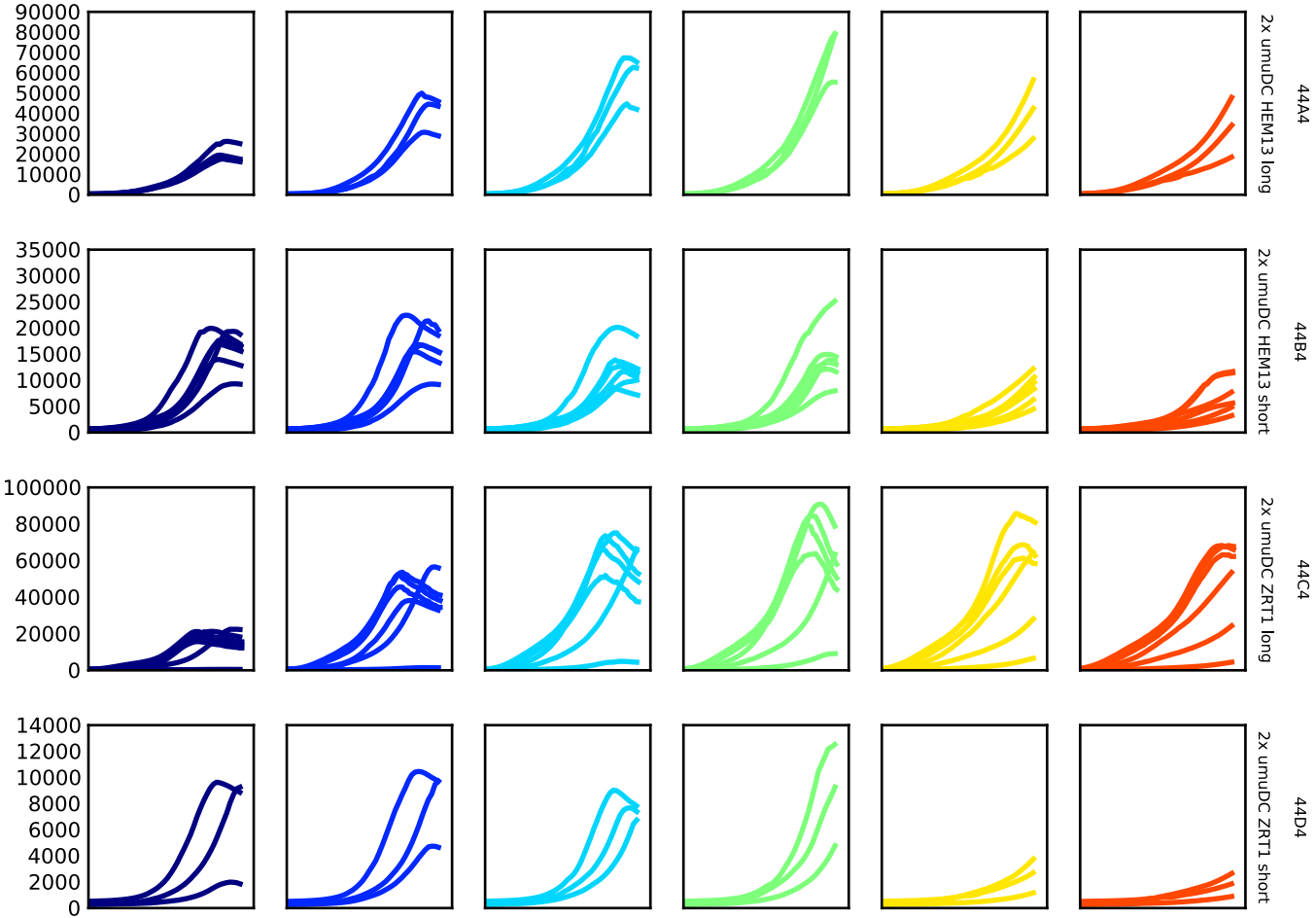
20000
15000
10000
5000
0


90000
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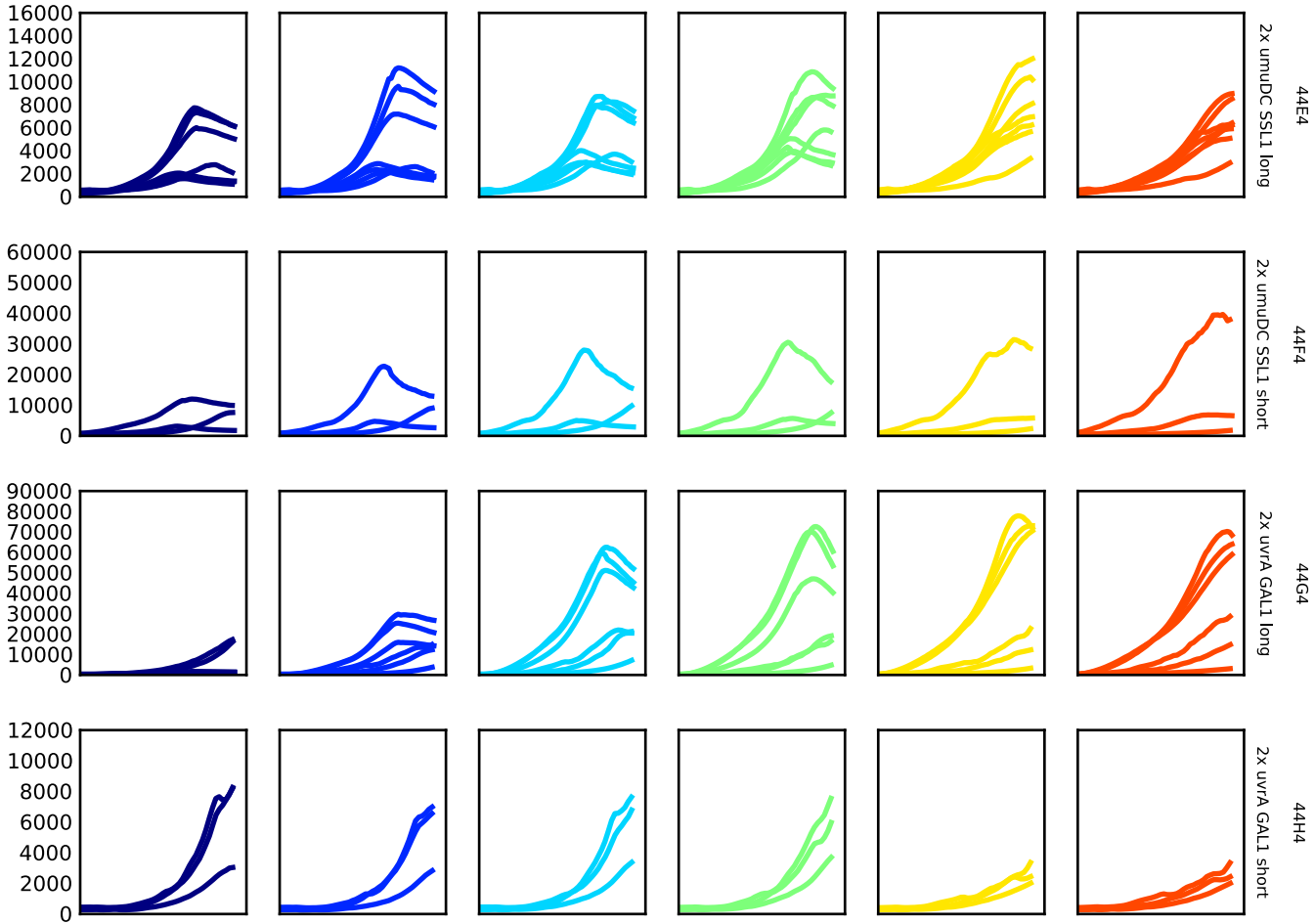
70000
60000
50000
40000
30000
20000
10000
0
44A4
2x umuDC HEM13 long
35000
30000
25000
20000
15000
10000
5000
0
44B4
2x umuDC HEM13 short
100000
80000
60000
40000
20000
0
44C4
2x umuDC ZRT1 long
14000
12000
10000
8000
6000
4000
2000
0
44D4
2x umuDC ZRT1 short


44E4
2x umuDC SSL1 long
44F4
2x umuDC SSL1 short
44G4
2x uvrA GAL1 long
44H4
2x uvrA GAL1 short
16000
14000
12000
10000
8000
6000
4000
2000
0
60000
50000
40000
30000
20000
10000
0
90000
80000
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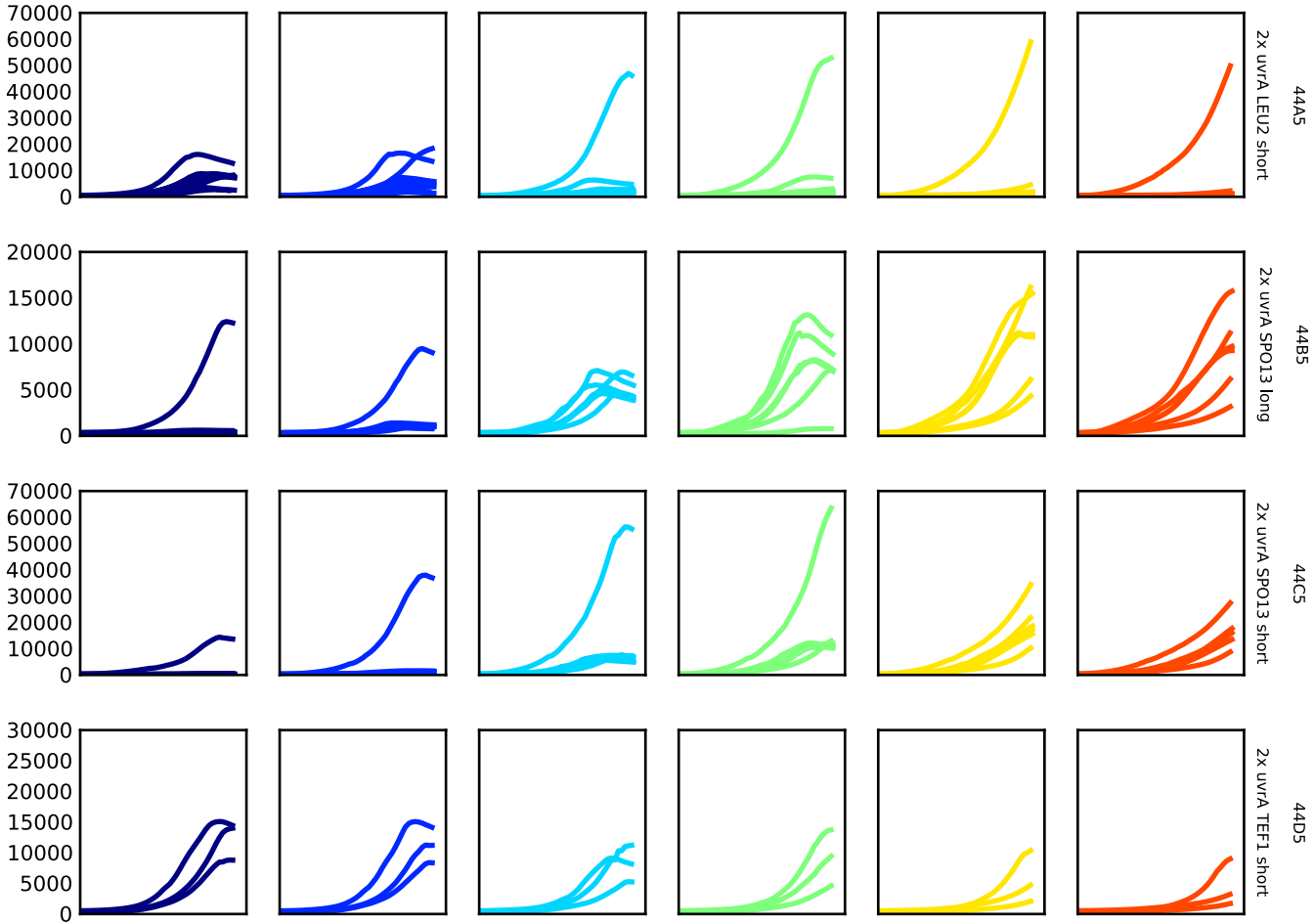
60000
50000
40000
30000
20000
10000
0
12000
10000
8000
6000
4000
2000
0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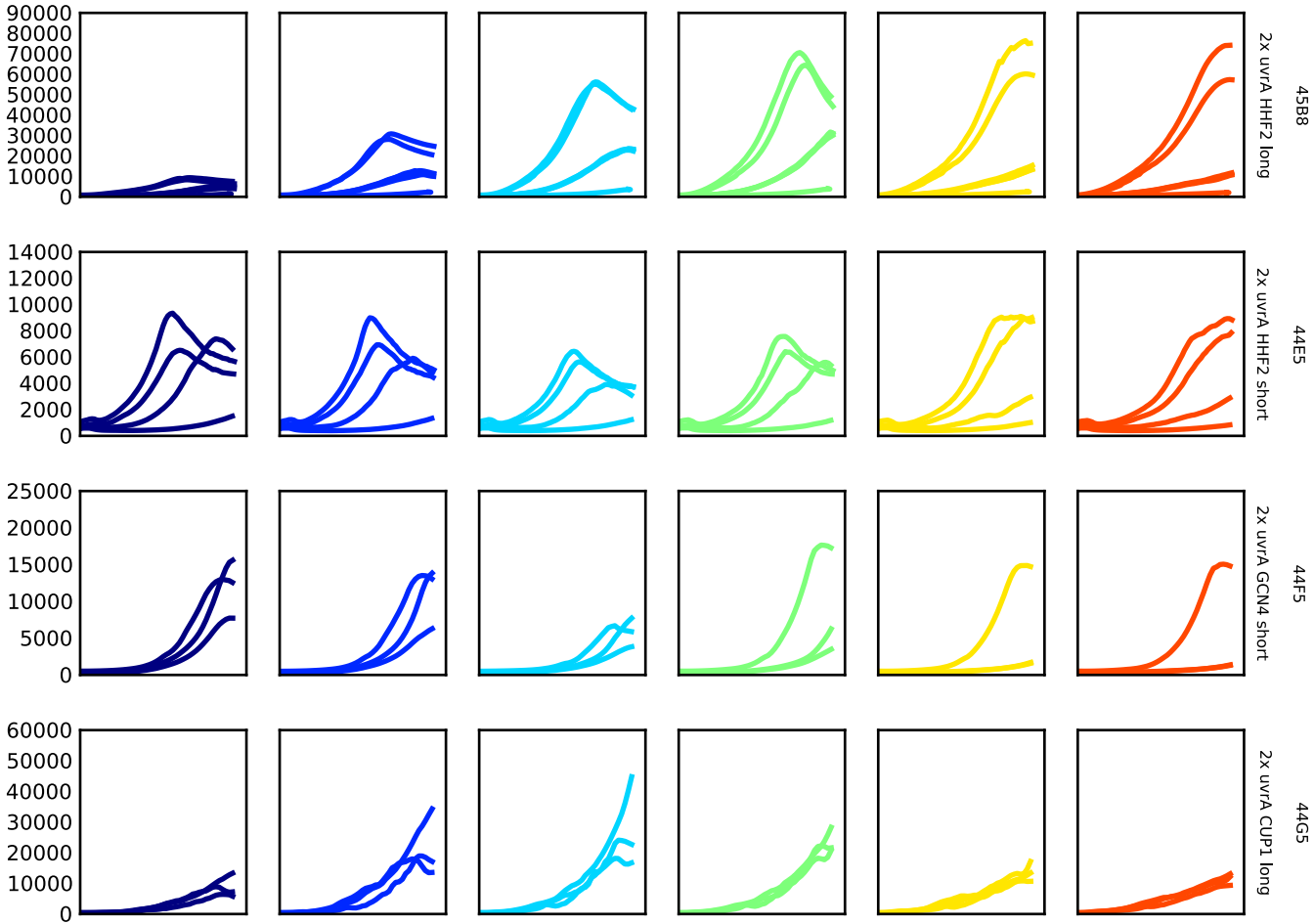
60000
50000
40000
30000
20000
10000
0
2x uvrA LEU2 short
44A5
20000
15000
10000
5000
0
2x uvrA SPO13 long
44B5
70000
60000
50000
40000
30000
20000
10000
0
2x uvrA SPO13 short
44C5
30000
25000
20000
15000
10000
5000
0
2x uvrA TEF1 short
44D5


90000
80000
70000
60000
50000
40000
30000
20000
10000
0
14000
12000
10000
8000
6000
4000
2000
0
25000
20000
15000
10000
5000
0
60000
50000
40000
30000
20000
10000
0
45B8
2x uvrA HHF2 long
44E5
2x uvrA HHF2 short
44F5
2x uvrA GCN4 short
44G5
2x uvrA CUP1 long

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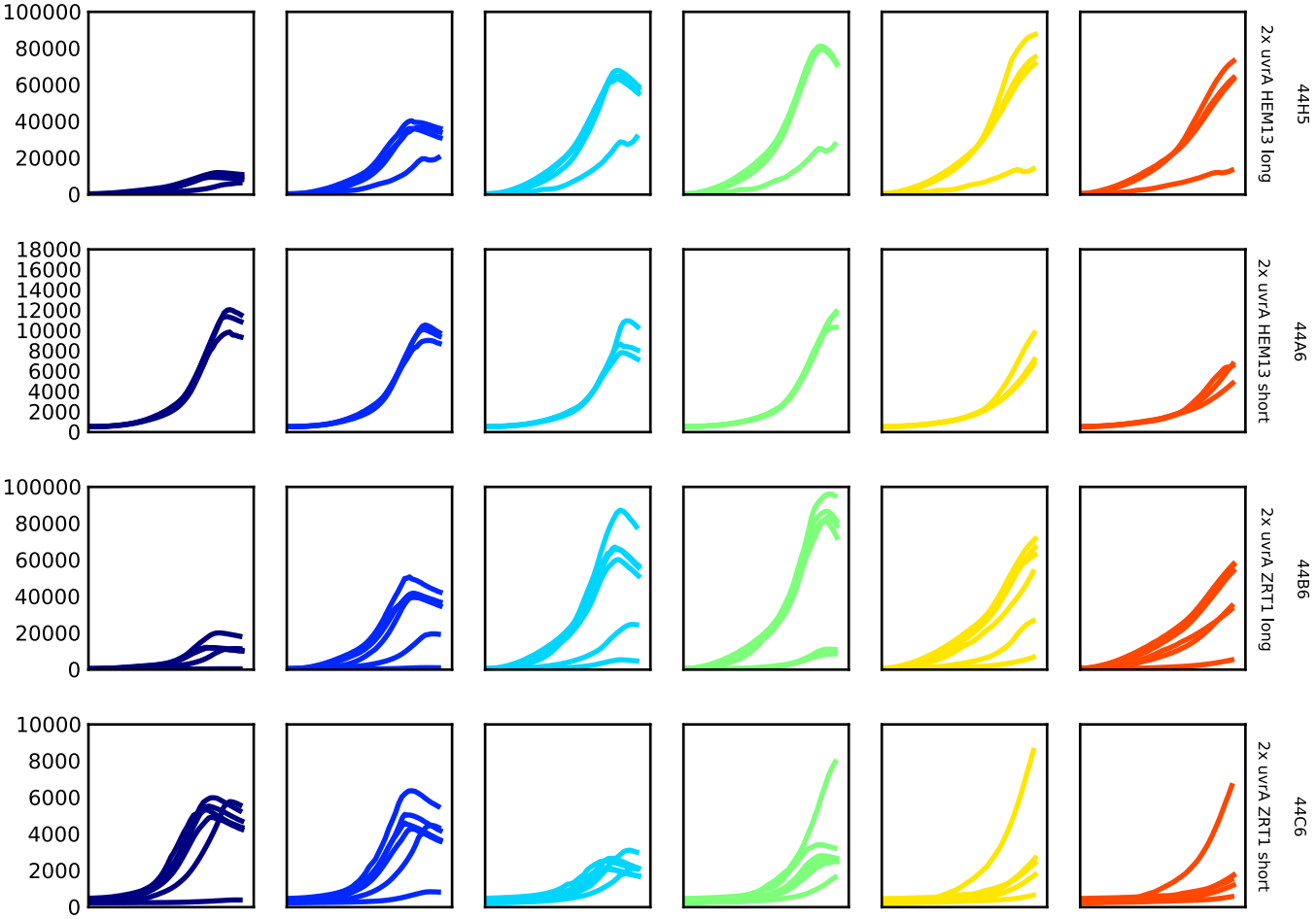
100000
80000
60000
40000
20000
0
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
100000
80000
60000
40000
20000
0
10000
8000
6000
4000
2000
0
44H5
2x uvrA HEM13 long
44A6
2x uvrA HEM13 short
44B6
2x uvrA ZRT1 long
44C6
2x uvrA ZRT1 short

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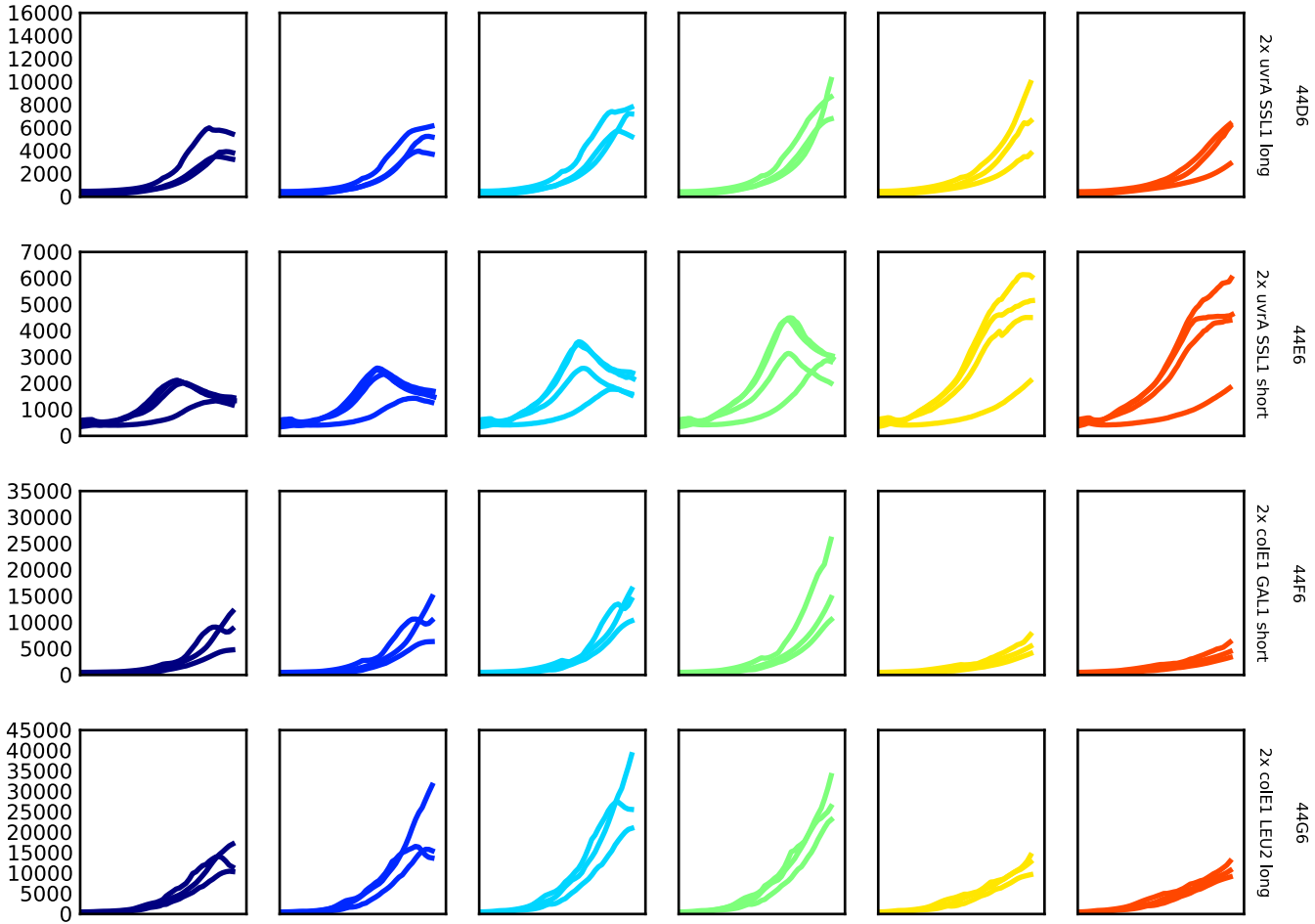
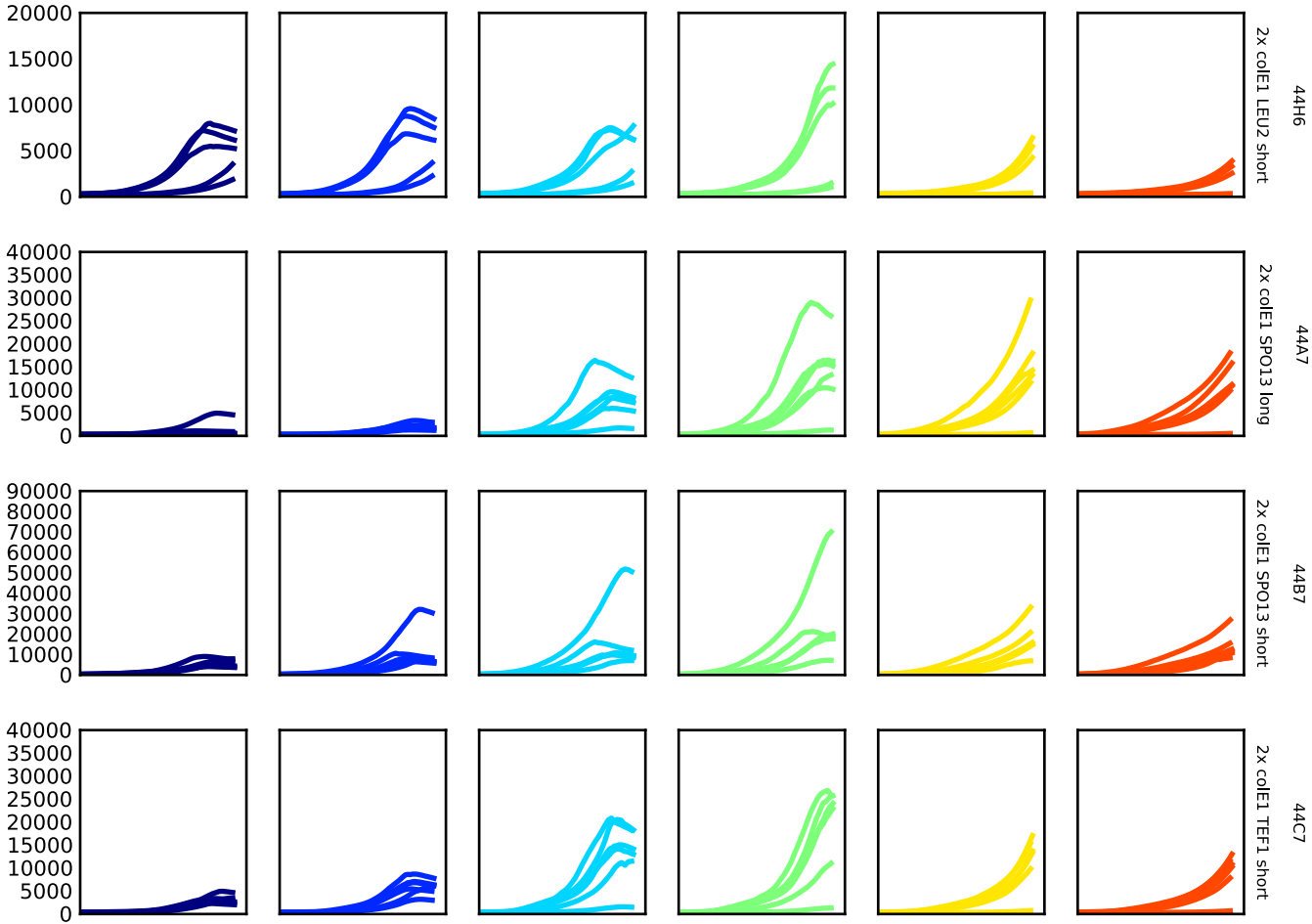
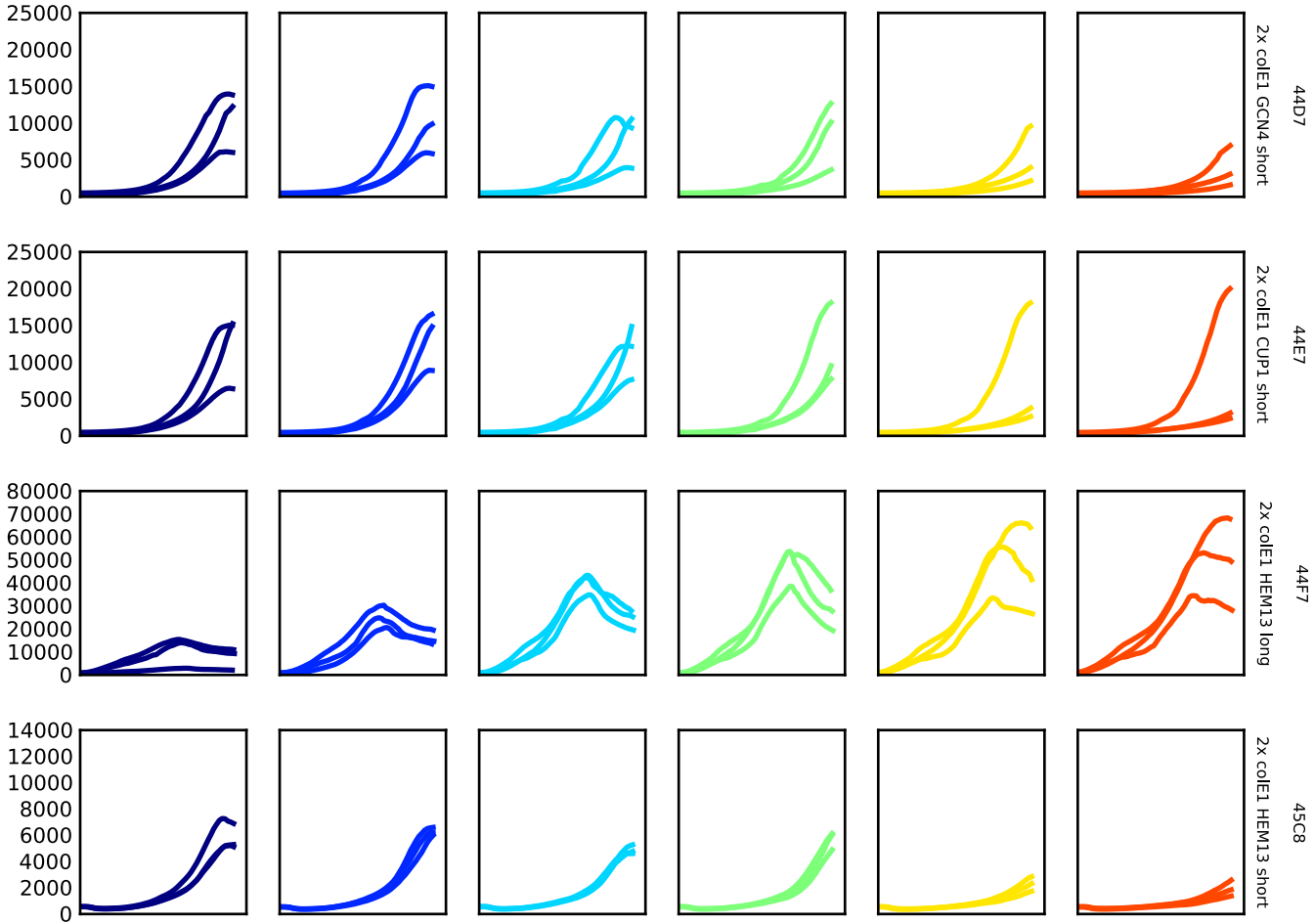
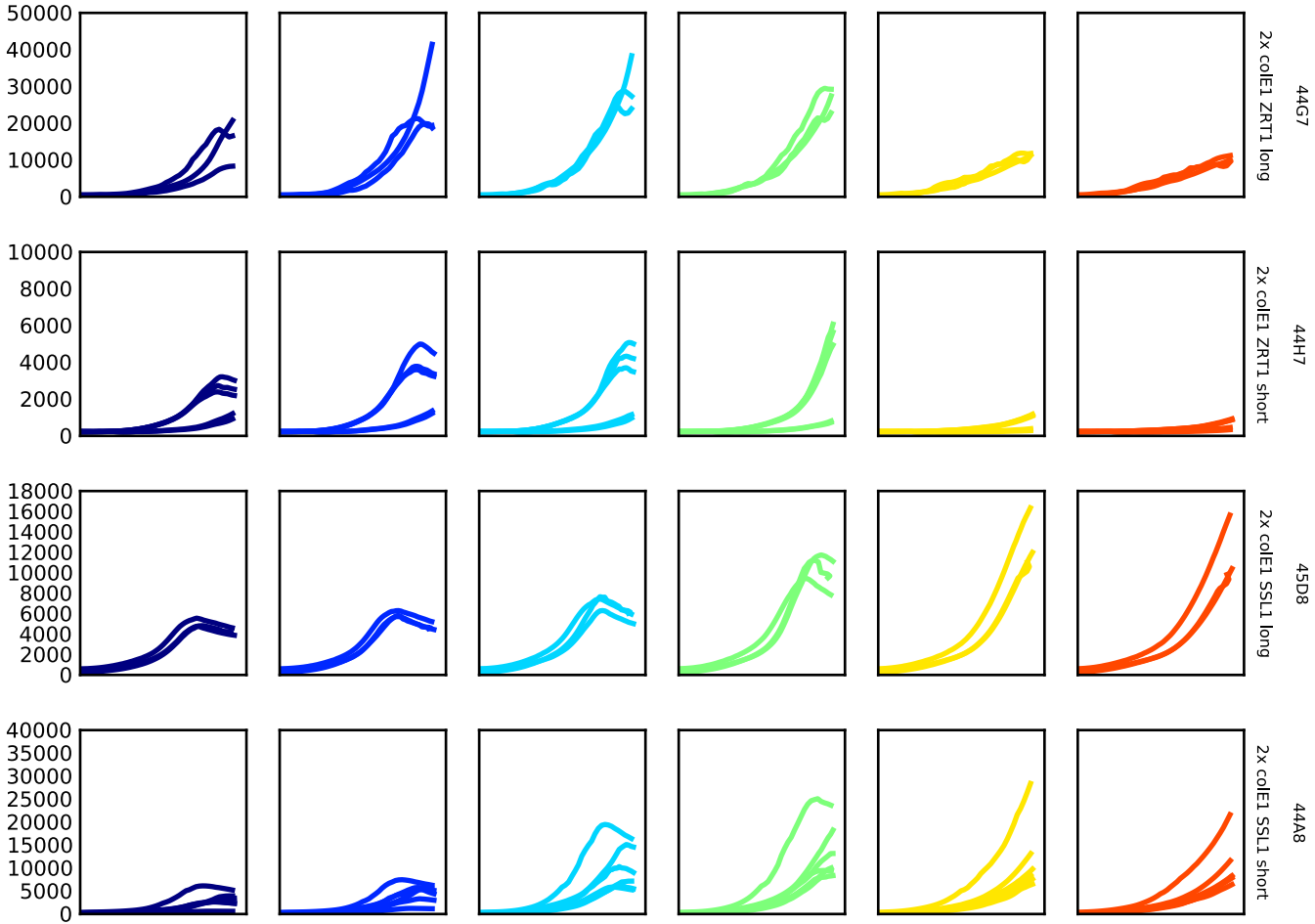
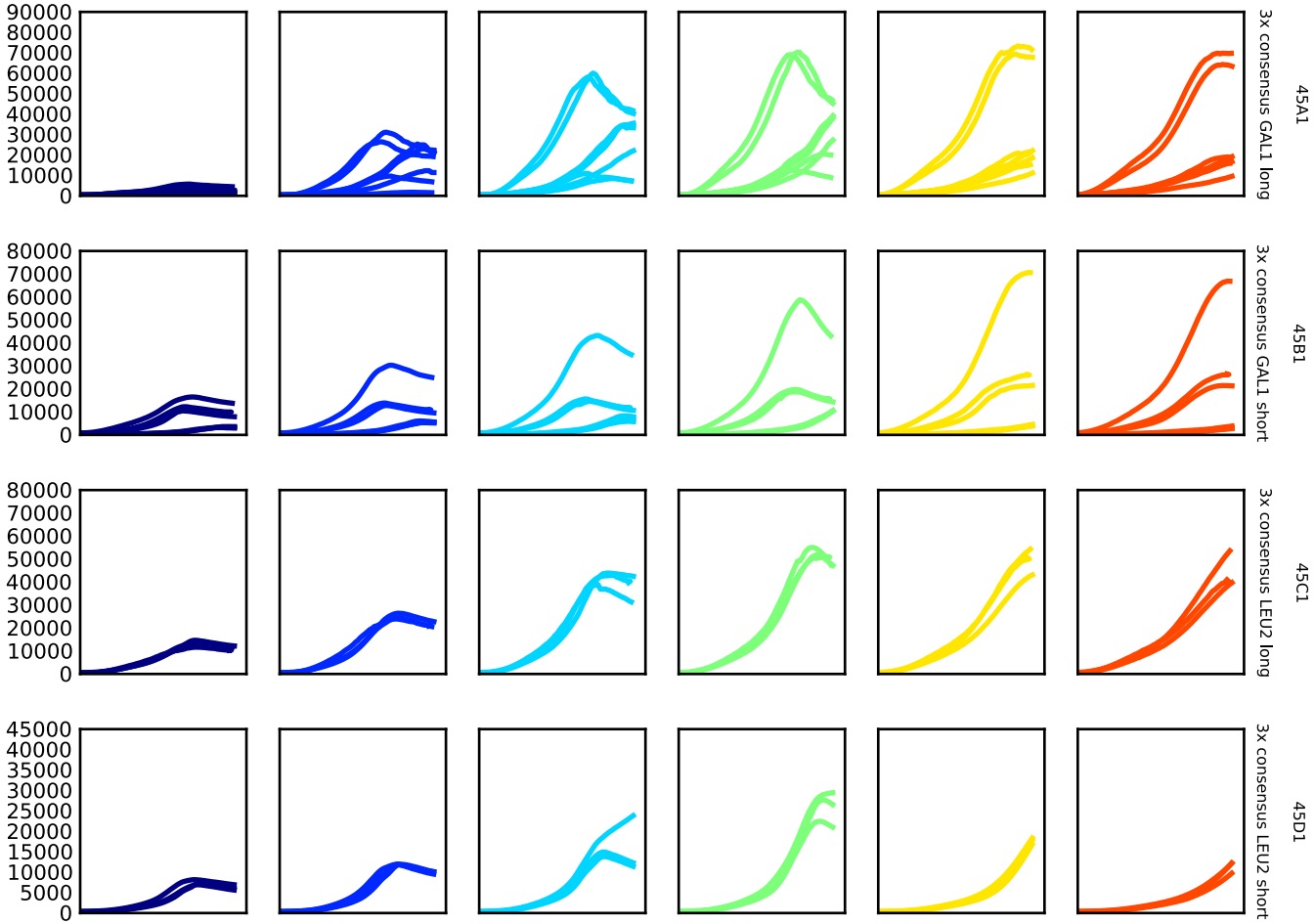

16000
14000
12000
10000
8000
6000
4000
2000
0
2x uvrA SSL1 long
44D6
7000
6000
5000
4000
3000
2000
1000
0
2x uvrA SSL1 short
44E6
35000
30000
25000
20000
15000
10000
5000
0
2x colE1 GAL1 short
44F6
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
2x colE1 LEU2 long
44G6


44H6
2x colE1 LEU2 short
44A7
2x colE1 SPO13 long
44B7
2x colE1 SPO13 short
44C7
2x colE1 TEF1 short
20000
15000
10000
5000
0
40000
35000
30000
25000
20000
15000
10000
5000
0
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
40000
35000
30000
25000
20000
15000
10000
5000
0


44D7
2x colE1 GCN4 short
44E7
2x colE1 CUP1 short
44F7
2x colE1 HEM13 long
45C8
2x colE1 HEM13 short
25000
20000
15000
10000
5000
0
80000
70000
60000
50000
40000
30000
20000
10000
14000
12000
10000
8000
6000
4000
2000


44G7
2x colE1 ZRT1 long
44H7
2x colE1 ZRT1 short
45D8
2x colE1 SSL1 long
44A8
2x colE1 SSL1 short
50000
40000
30000
20000
10000
0
10000
8000
6000
4000
2000
0
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
40000
35000
30000
25000
20000
15000
10000
5000
0


45A1
3x consensus GAL1 long
45B1
3x consensus GAL1 short
45C1
3x consensus LEU2 long
45D1
3x consensus LEU2 short
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
80000
70000
60000
50000
40000
30000
20000
10000
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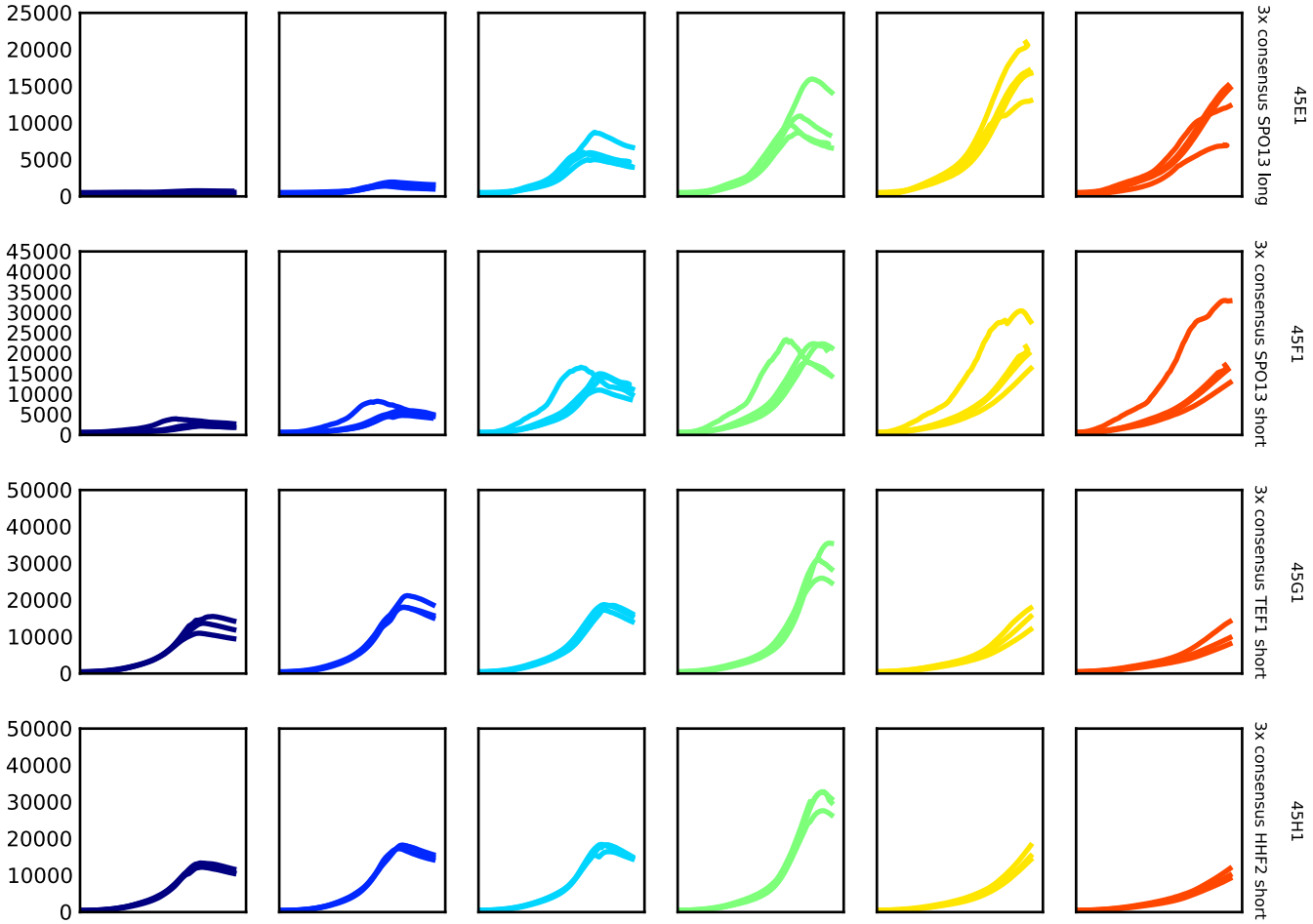
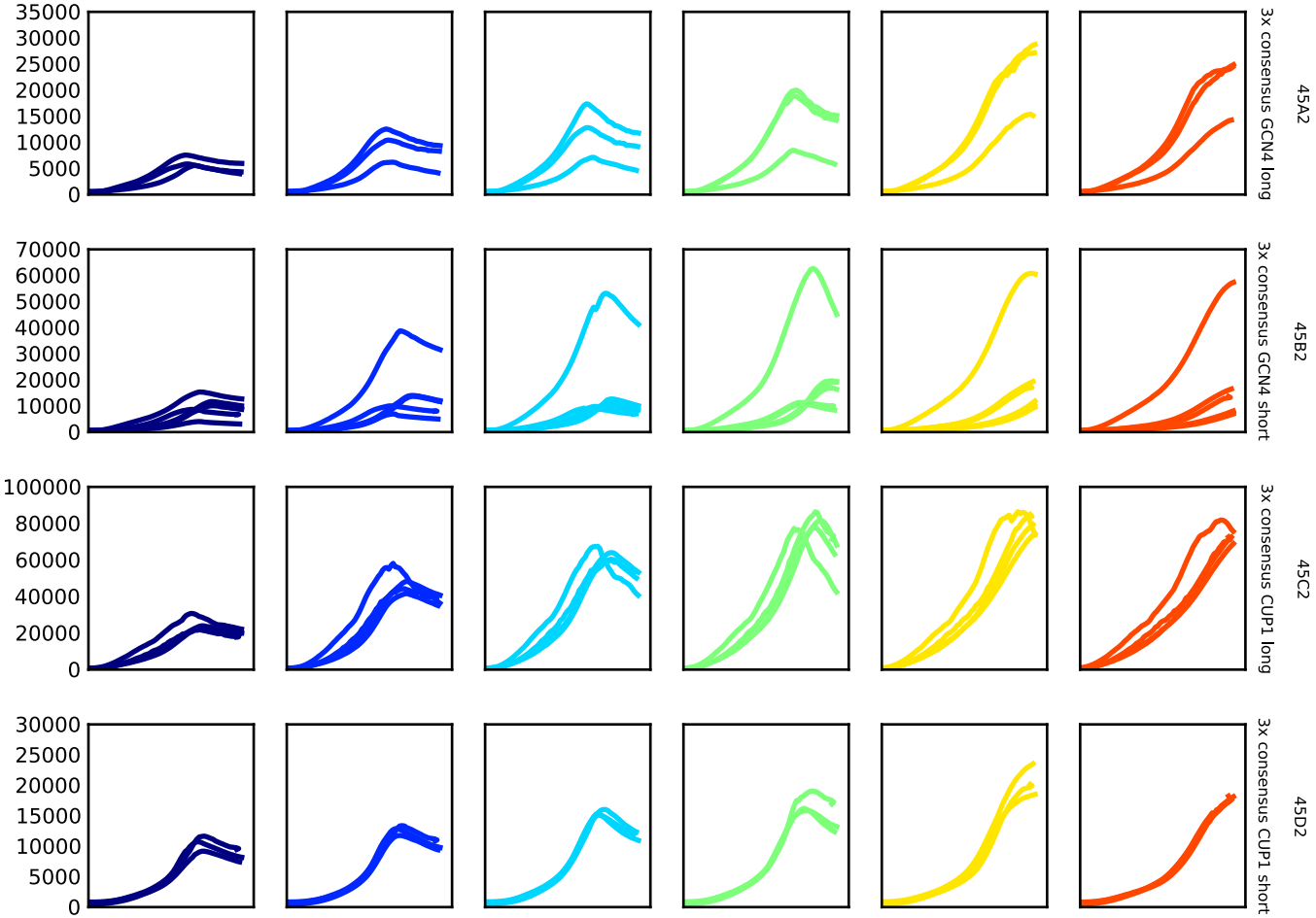
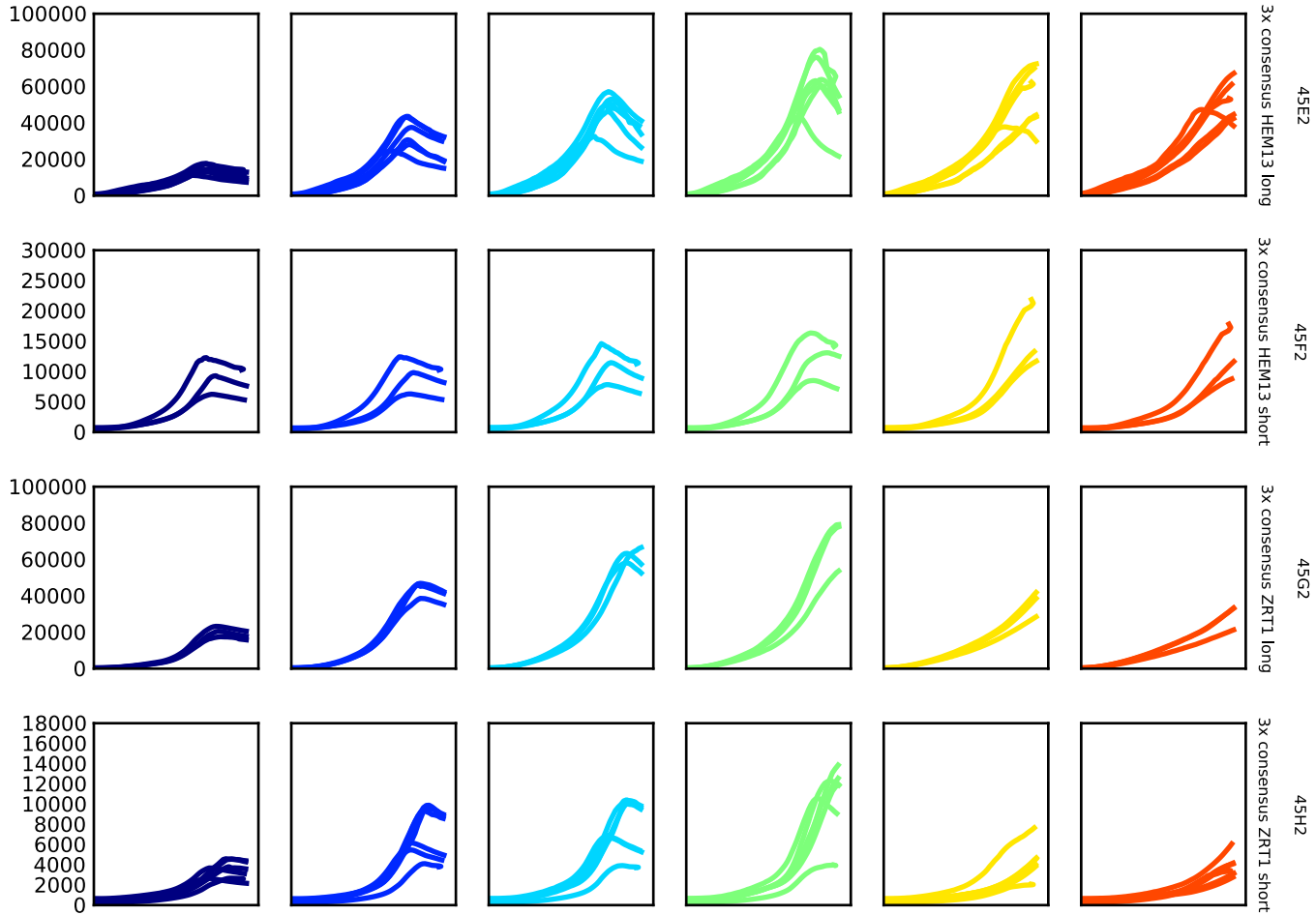
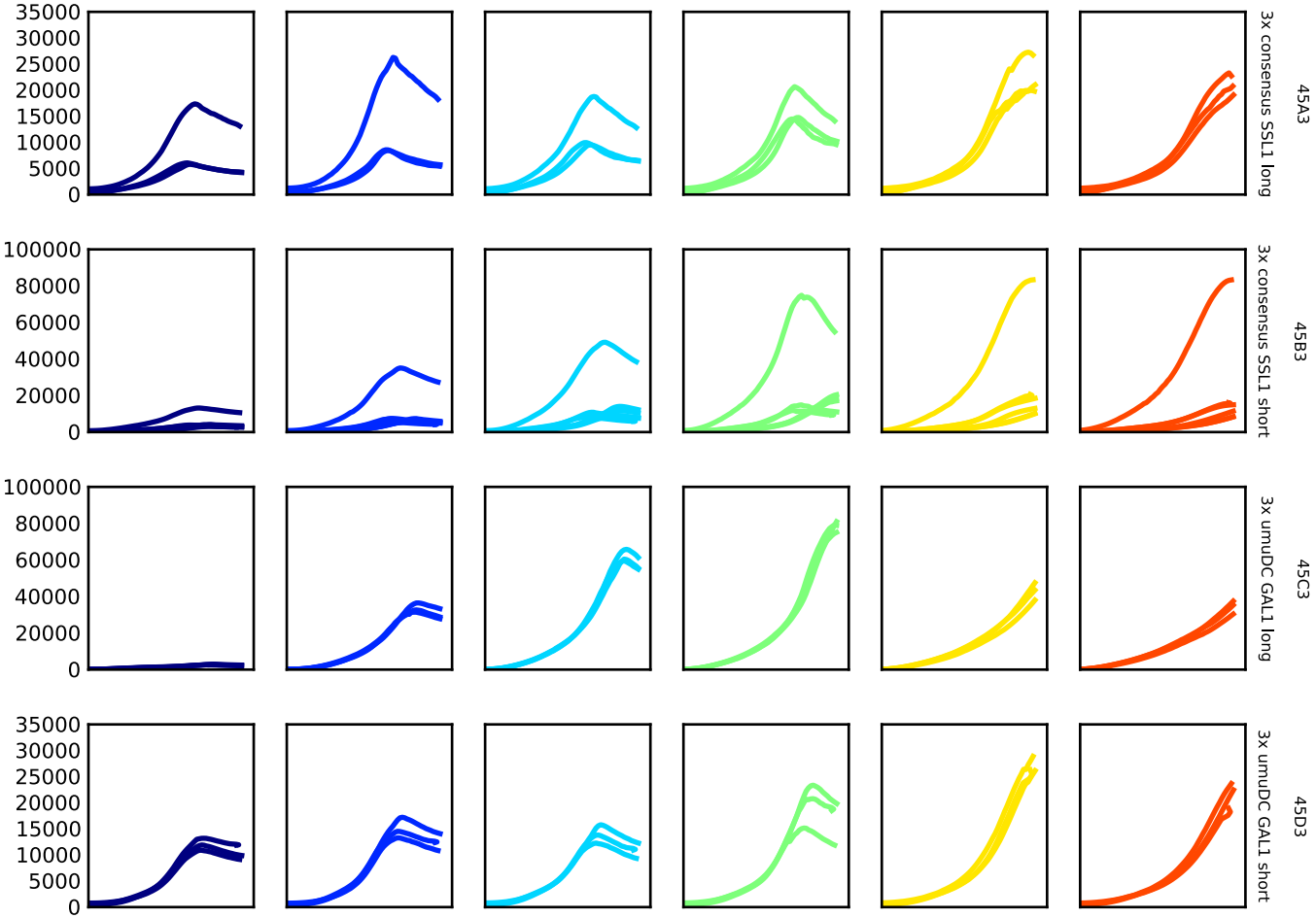
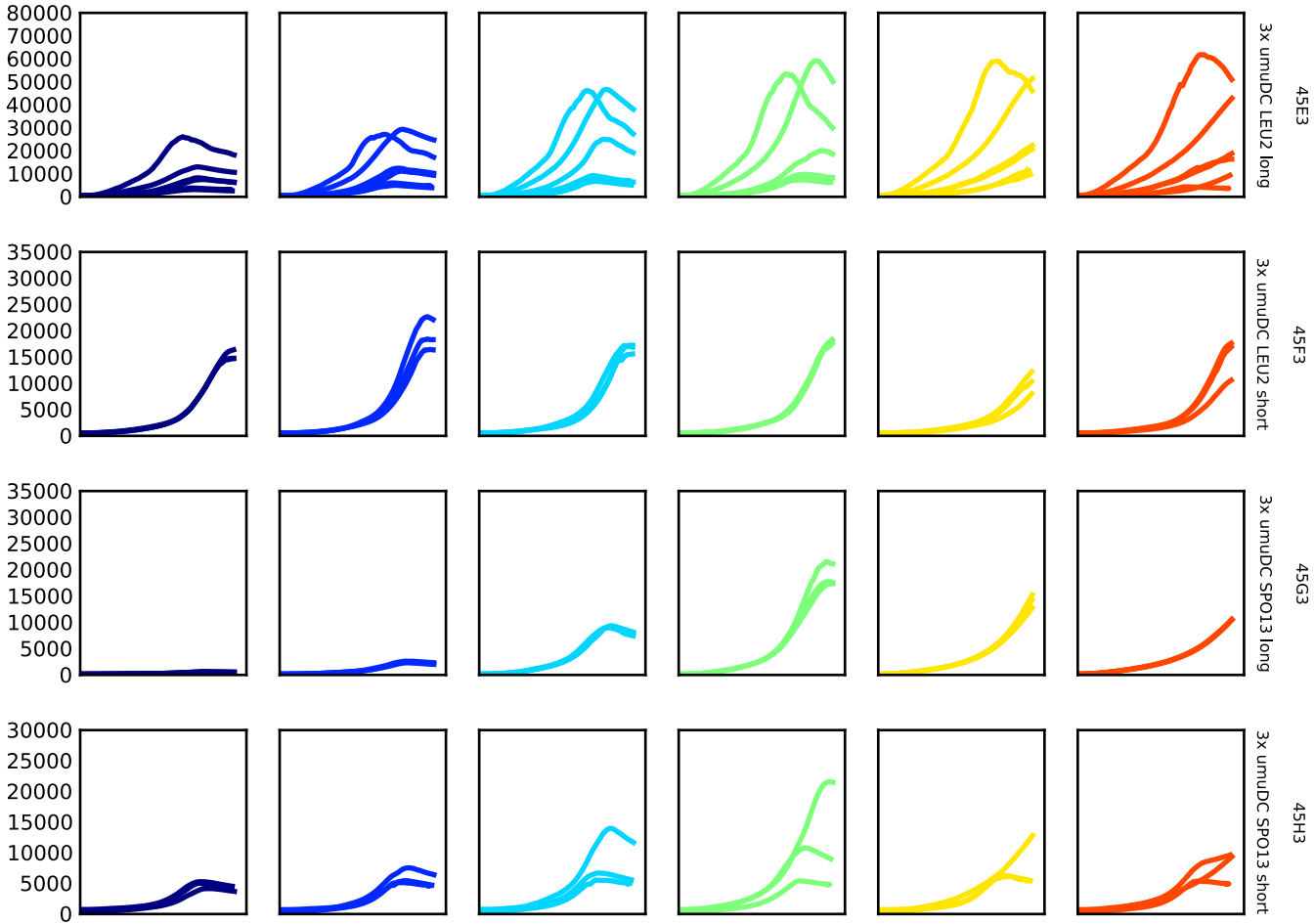
80000
70000
60000
50000
40000
30000
20000
10000
0
45000
40000
35000
30000
25000
20000
15000
10000
5000
0

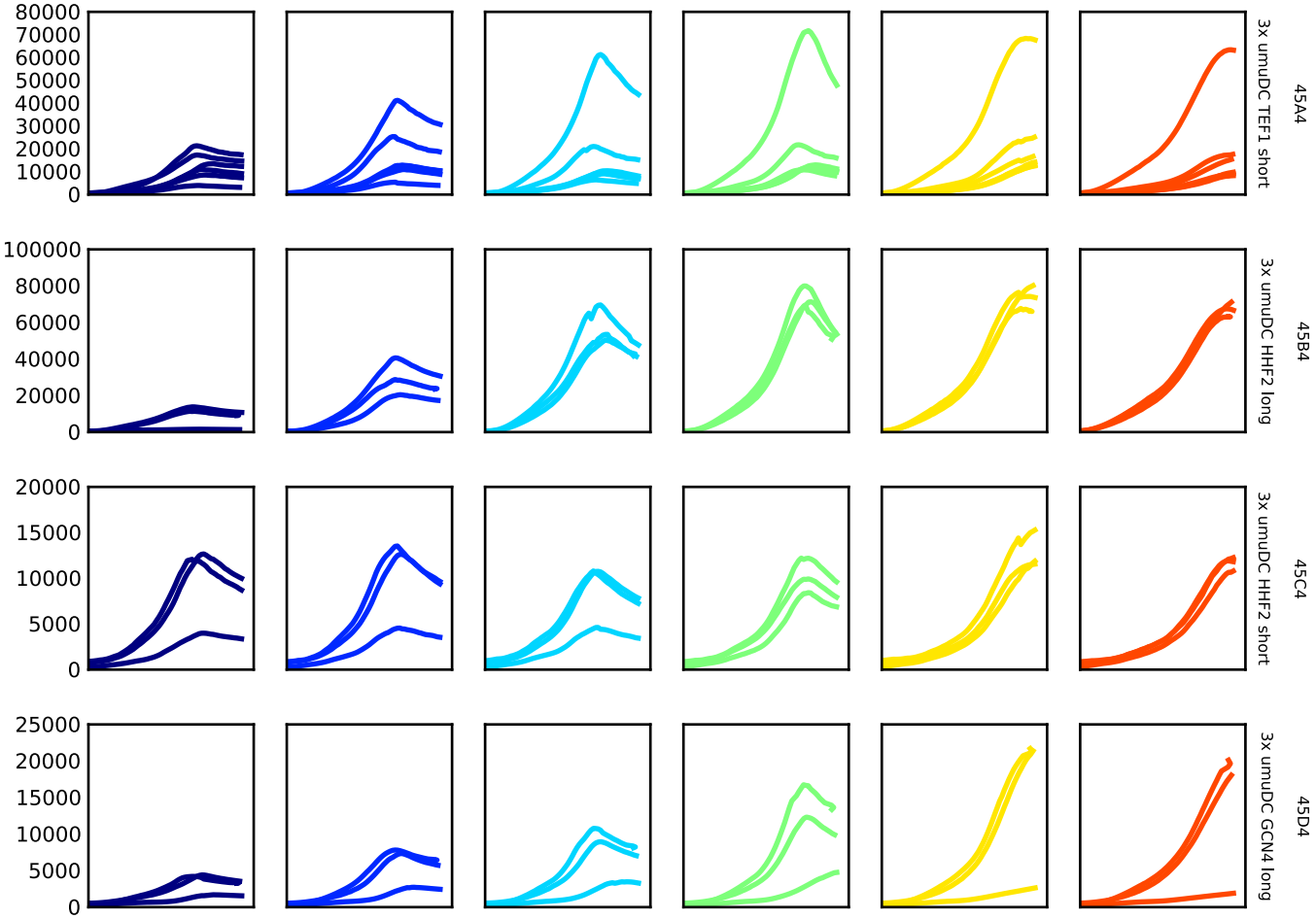

45E1
3x consensus SPO13 long
45F1
3x consensus SPO13 short
45G1
3x consensus TEF1 short
45H1
3x consensus HHF2 short
25000
20000
15000
10000
5000
0
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
50000
40000
30000
20000
10000
0
50000
40000
30000
20000
10000
0

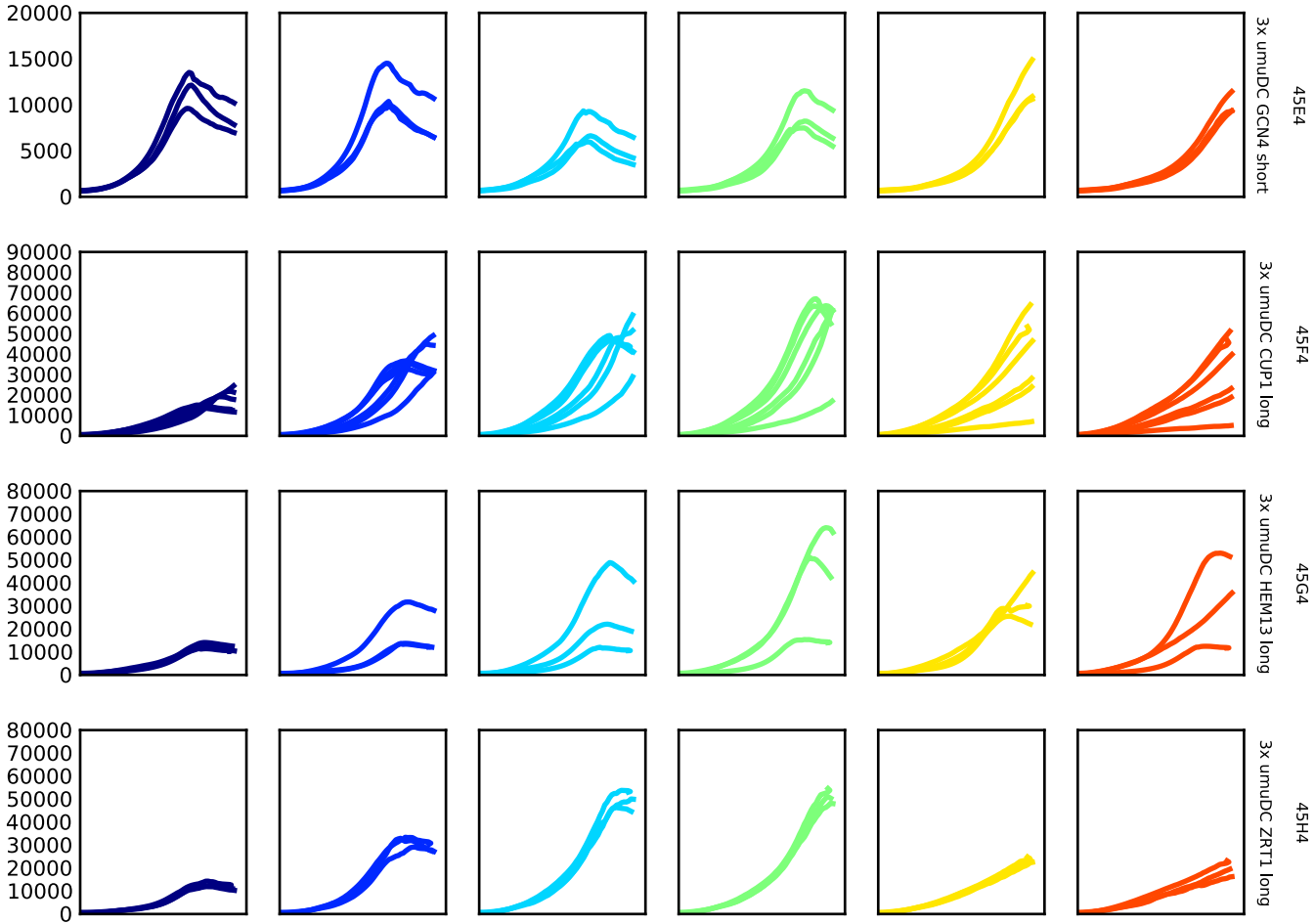

45A2
3x consensus GCN4 long
45B2
3x consensus GCN4 short
45C2
3x consensus CUP1 long
45D2
3x consensus CUP1 short
35000
30000
25000
20000
15000
10000
5000
0
70000
60000
50000
40000
30000
20000
10000
0
100000
80000
60000
40000
20000
0
30000
25000
20000
15000
10000
5000
0

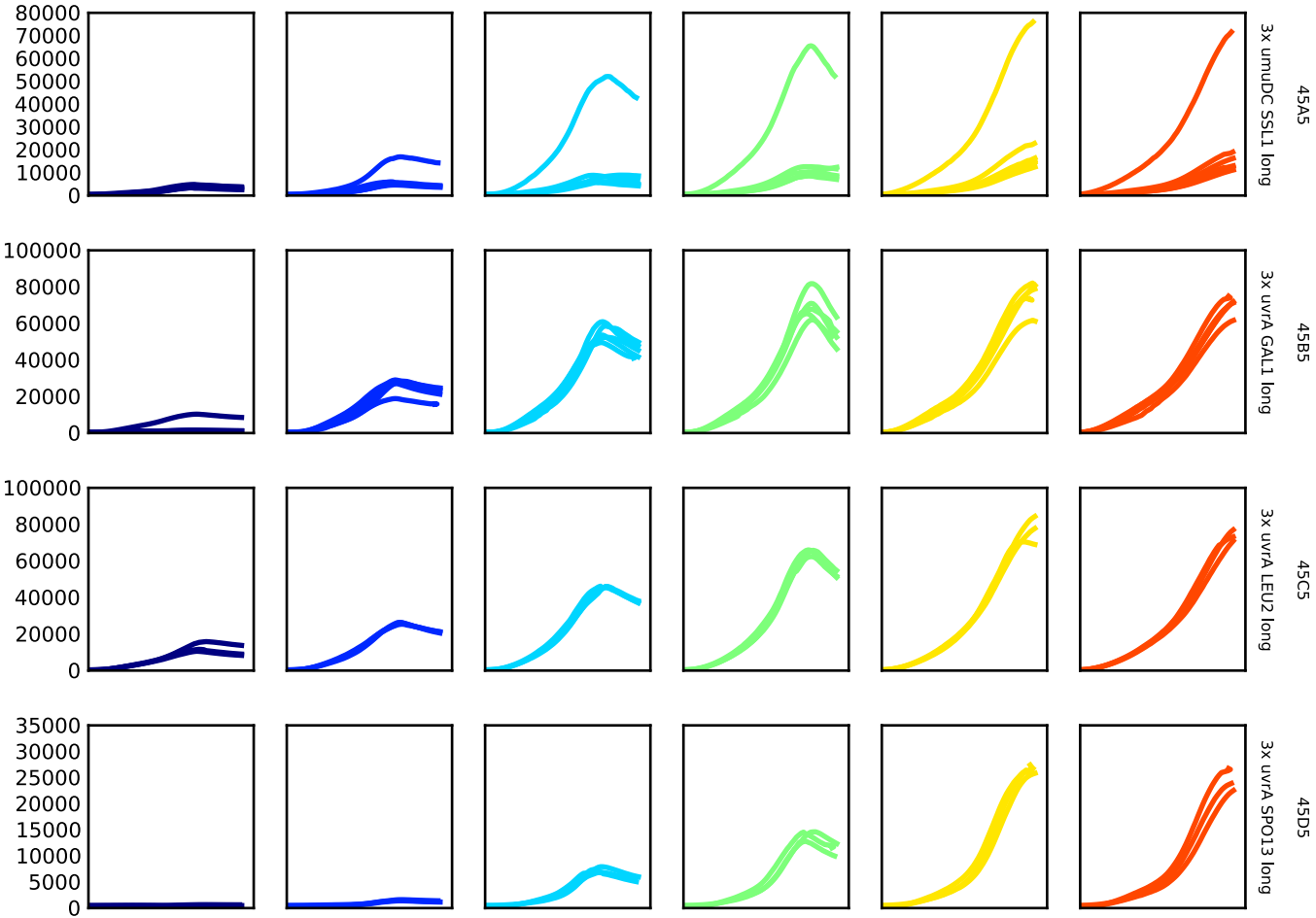

45E2
3x consensus HEM13 long
45F2
3x consensus HEM13 short
45G2
3x consensus ZRT1 long
45H2
3x consensus ZRT1 short
100000
80000
60000
40000
20000
0
30000
25000
20000
15000
10000
5000
0
100000
80000
60000
40000
20000
0
18000
16000
14000
12000
10000
8000
6000
4000
2000
0

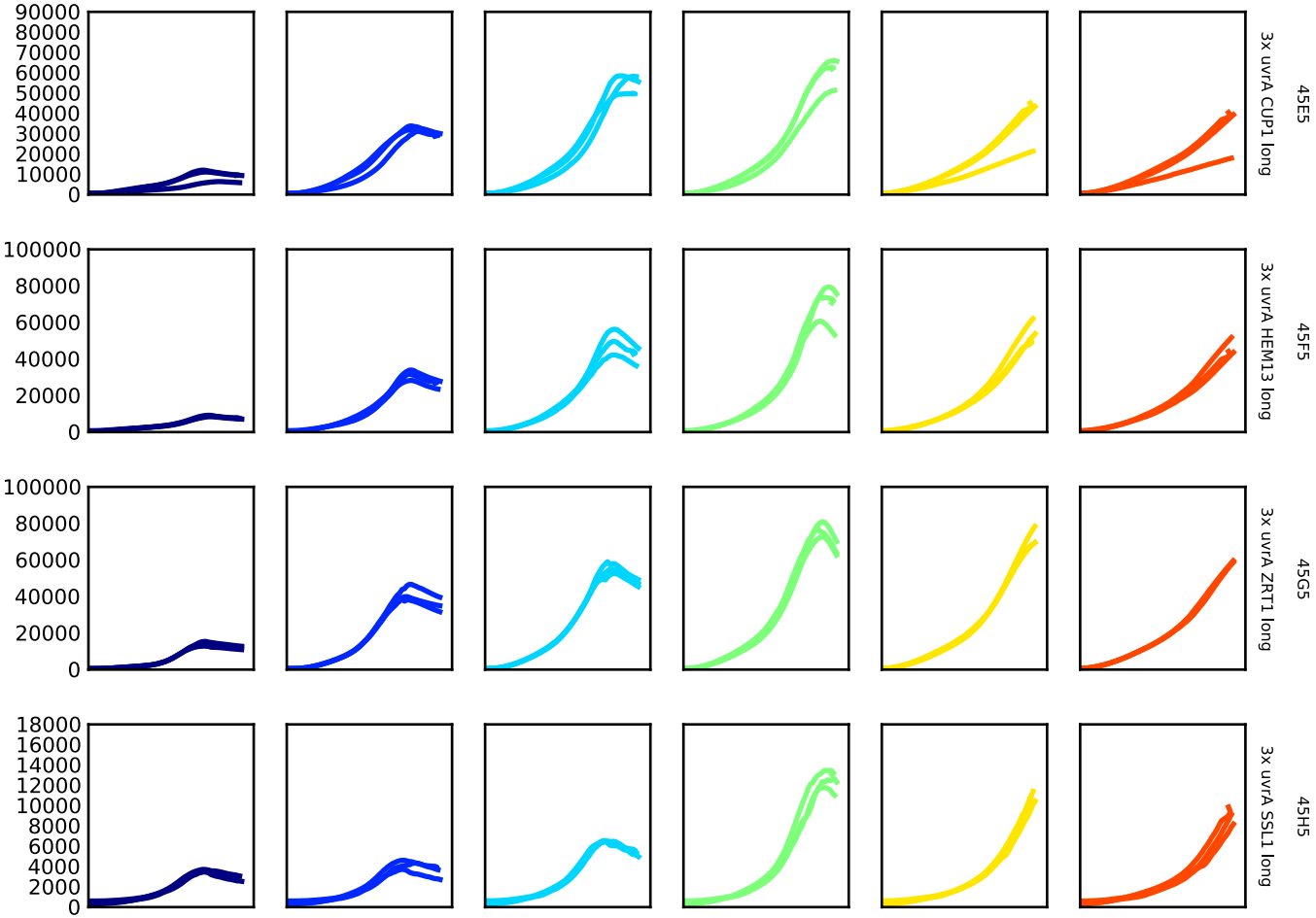

35000
30000
25000
20000
15000
10000
5000
0
100000
80000
60000
40000
20000
0
100000
80000
60000
40000
20000
0
35000
30000
25000
20000
15000
10000
5000
0
45A3
3x consensus SSL1 long
45B3
3x consensus SSL1 short
45C3
3x umuDC GAL1 long
45D3
3x umuDC GAL1 short

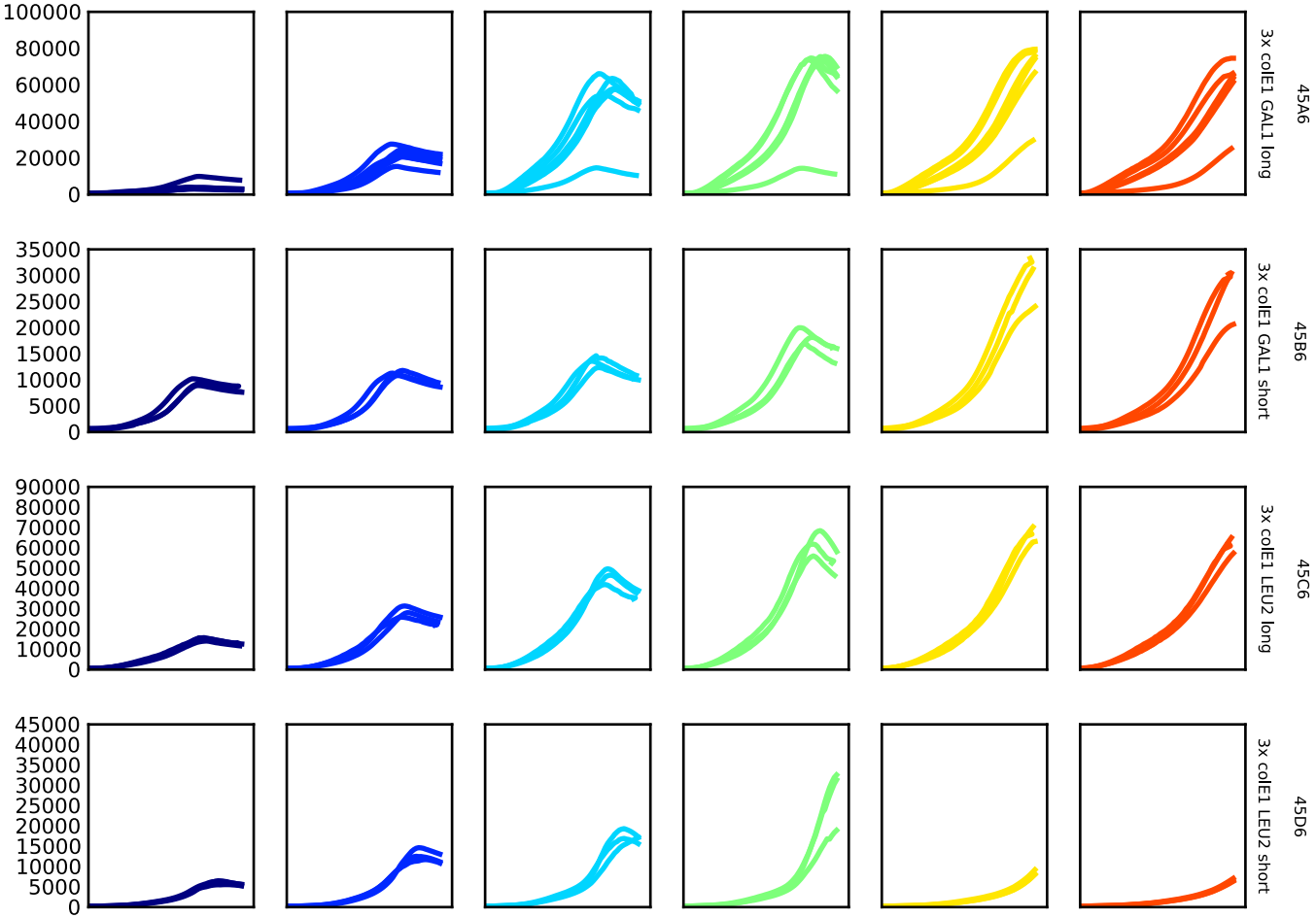

80000
70000
60000
50000
40000
30000
20000
10000
0
35000
30000
25000
20000
15000
10000
5000
0
35000
30000
25000
20000
15000
10000
5000
0
30000
25000
20000
15000
10000
5000
0
45E3
3x umuDC LEU2 long
45F3
3x umuDC LEU2 short
45G3
3x umuDC SPO13 long
45H3
3x umuDC SPO13 short

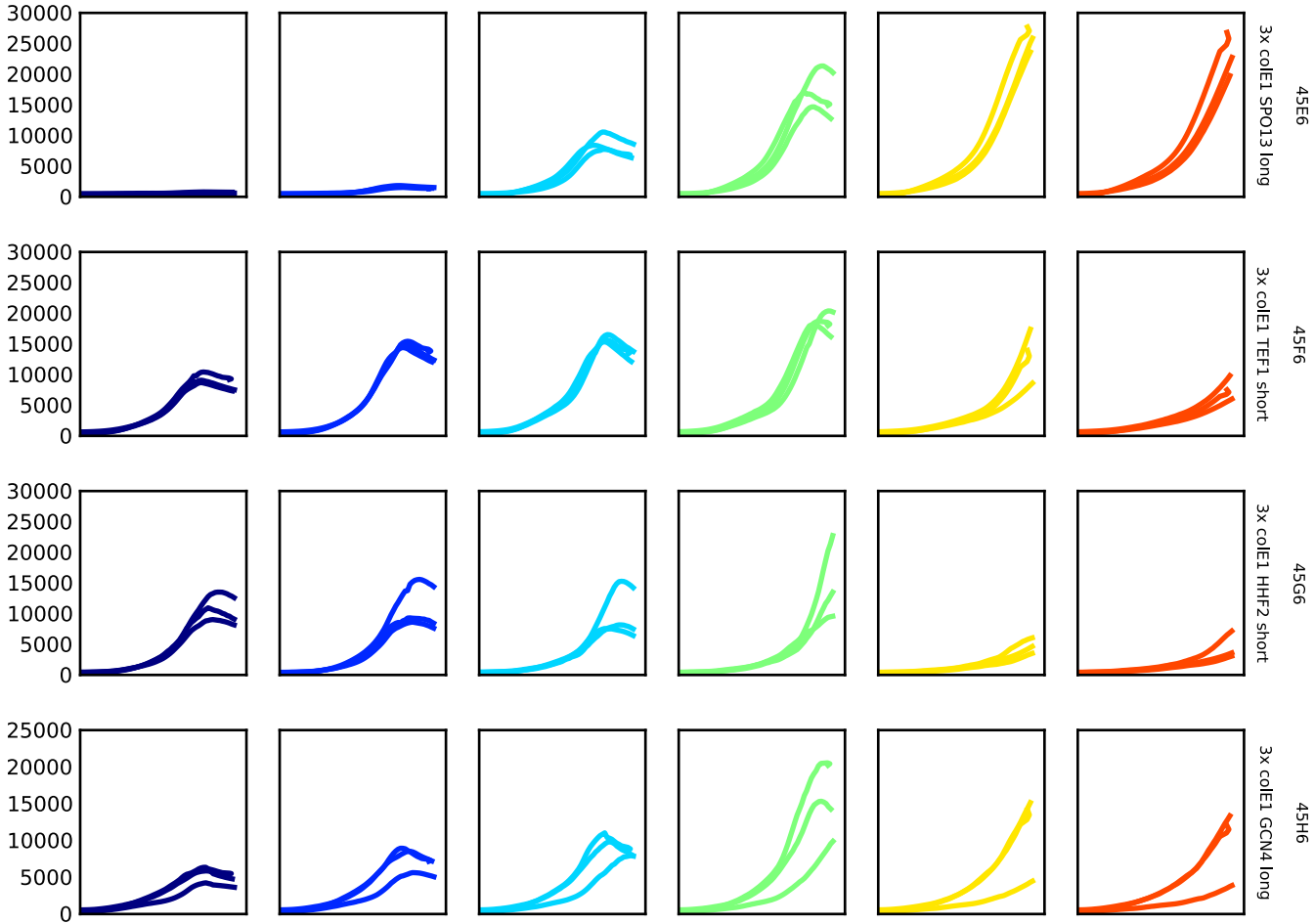

45A4
3x umuDC TEF1 short
45B4
3x umuDC HHF2 long
45C4
3x umuDC HHF2 short
45D4
3x umuDC GCN4 long
80000
70000
60000
50000
40000
30000
20000
10000
0
100000
80000
60000
40000
20000
0
20000
15000
10000
5000
0
25000
20000
15000
10000
5000
0

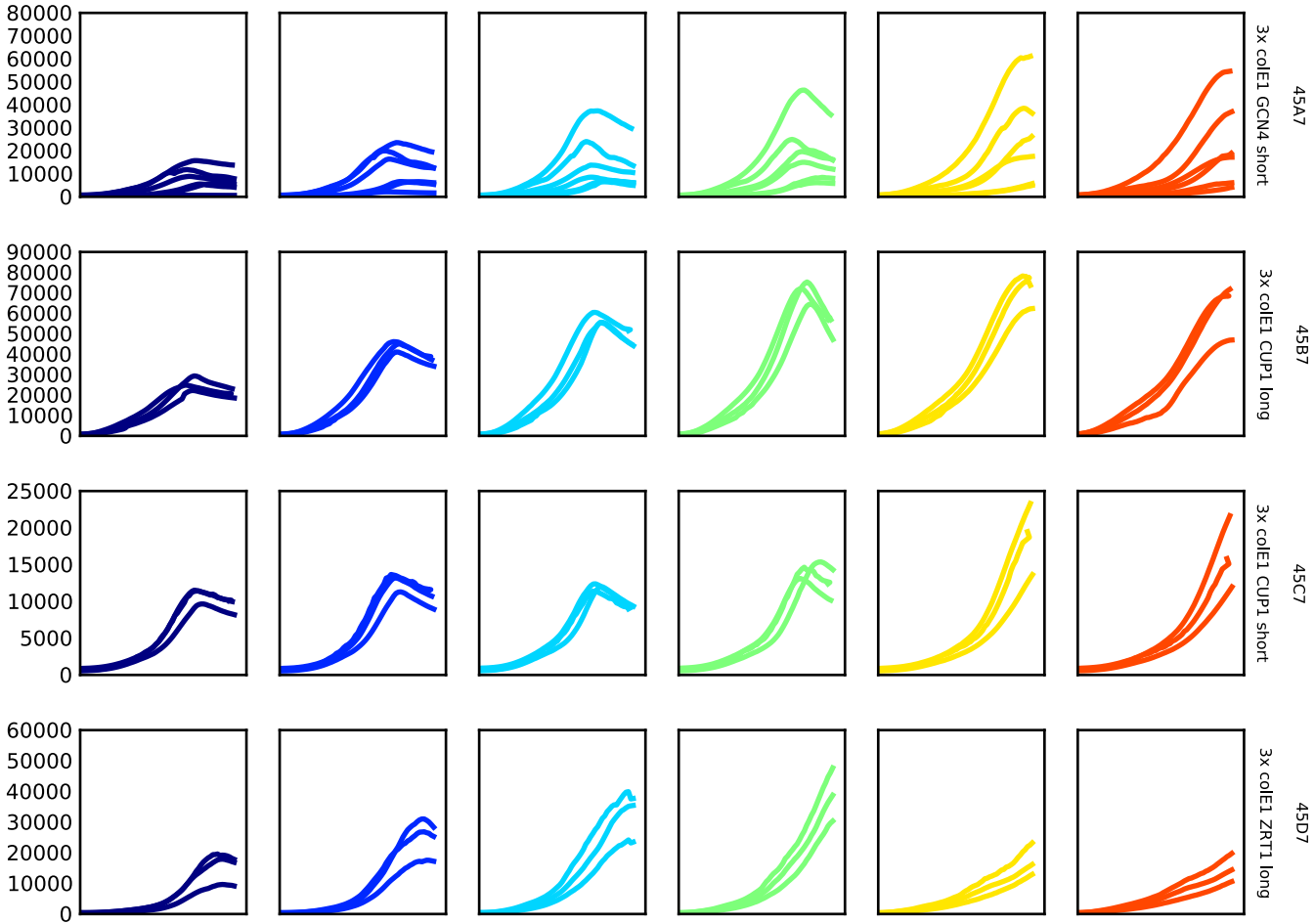

20000
15000
10000
5000
0
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
80000
70000
60000
50000
40000
30000
20000
10000
0
80000
70000
60000
50000
40000
30000
20000
10000
0
3x umuDC GCN4 short
45E4
3x umuDC CUP1 long
45F4
3x umuDC HEM13 long
45G4
3x umuDC ZRT1 long
45H4

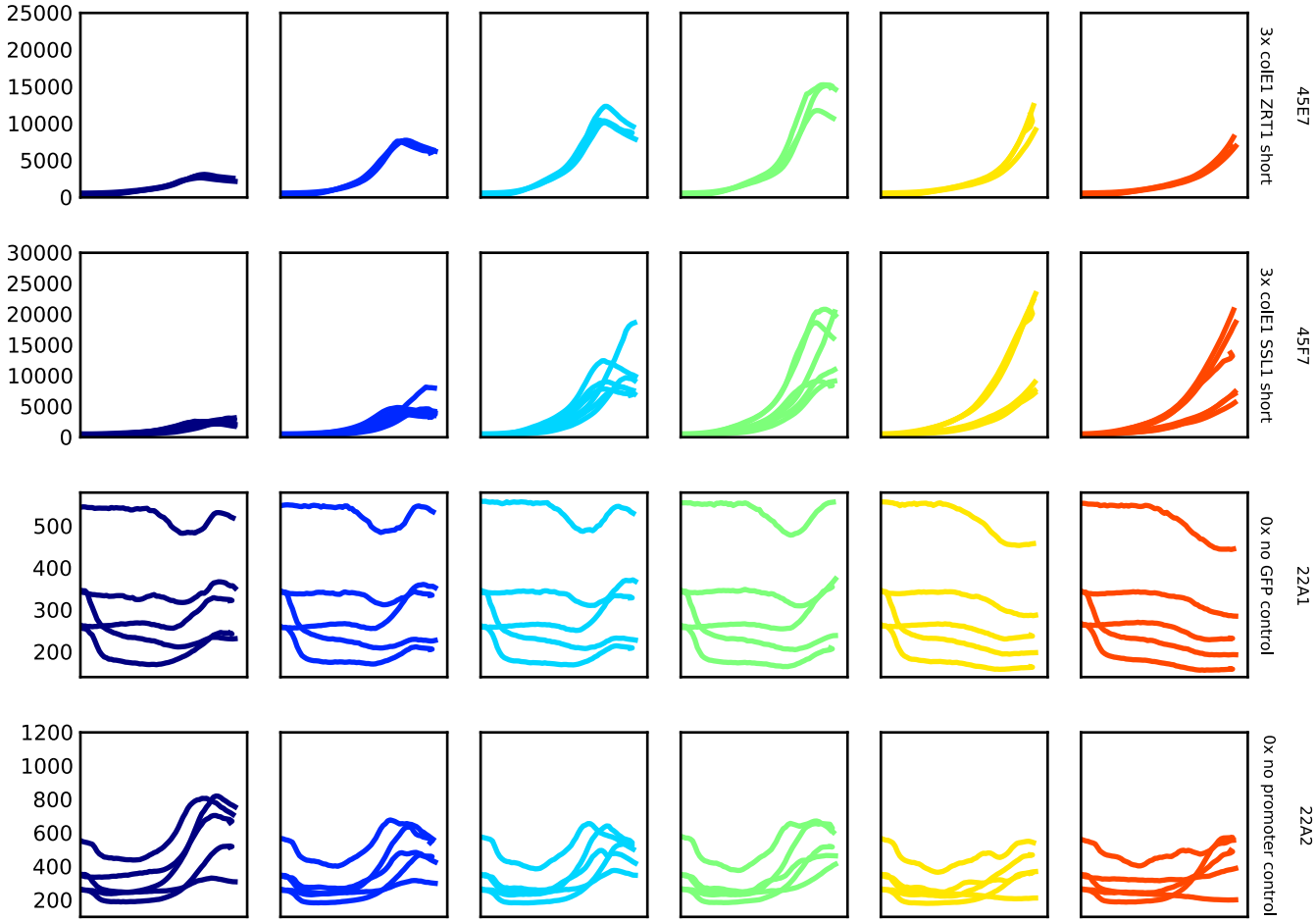

80000
70000
60000
50000
40000
30000
20000
10000
0
45A5
3x umuDC SSL1 long
100000
80000
60000
40000
20000
0
45B5
3x uvrA GAL1 long
100000
80000
60000
40000
20000
0
45C5
3x uvrA LEU2 long
35000
30000
25000
20000
15000
10000
5000
0
45D5
3x uvrA SPO13 long


90000
80000
70000
60000
50000
40000
30000
20000
10000
0
3x uvrA CUP1 long
45E5
100000
80000
60000
40000
20000
0
3x uvrA HEM13 long
45F5
100000
80000
60000
40000
20000
0
3x uvrA ZRT1 long
45G5
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
3x uvrA SSL1 long
45H5


100000
80000
60000
40000
20000
0
35000
30000
25000
20000
15000
10000
5000
0
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
45A6
3x colE1 GAL1 long
45B6
3x colE1 GAL1 short
45C6
3x colE1 LEU2 long
45D6
3x colE1 LEU2 short


45E6
3x colE1 SPO13 long
45F6
3x colE1 TEF1 short
45G6
3x colE1 HHF2 short
45H6
3x colE1 GCN4 long
30000
25000
20000
15000
10000
5000
0


80000
70000
60000
50000
40000
30000
20000
10000
0
45A7
3x colE1 GCN4 short
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
45B7
3x colE1 CUP1 long
25000
20000
15000
10000
5000
0
45C7
3x colE1 CUP1 short
60000
50000
40000
30000
20000
10000
0
45D7
3x colE1 ZRT1 long


45E7
3x colE1 ZRT1 short
45F7
3x colE1 SSL1 short
22A1
0x no GFP control
22A2
0x no promoter control
25000
20000
15000
10000
5000
0
30000
25000
20000
15000
10000
5000
0
500
400
300
200
1200
1000
800
600
400
200