

Barcode pairs of Noncrossover (NCOs) analyzed in Fig S1. The barcode pairs for I-SceI-generated NCOs in each Pacbio library are listed.

### **Library 1**

#### **I-SceI**

F1R10  
F2R10  
F2R11  
F2R12  
F3R11  
F4R7  
F4R8  
F4R9  
F4R10  
F4R12  
F5R7  
F5R8  
F5R9  
F5R10  
F6R10  
F7R8  
F7R10  
F7R11  
F18R4  
F19R5  
F21R5  
F22R4  
F22R5  
F22R6  
F24R5

### **Library 2**

#### **I-SceI**

F1R8  
F1R11  
F2R9  
F3R2  
F3R6  
F3R8  
F3R9  
F3R10  
F3R11  
F4R5  
F4R6  
F4R10  
F4R11  
F5R3  
F5R4  
F5R8

F6R1  
F6R3  
F6R6  
F6R9  
F7R1  
F7R3  
F7R4  
F7R6  
F7R8  
F8R4  
F8R5  
F8R6  
F8R8  
F8R10

#### **Library 4**

##### **I-Scel**

F1R2  
F1R7  
F1R8  
F1R13  
F1R16  
F1R19  
F1R21  
F2R3  
F2R6  
F2R7  
F2R11  
F2R14  
F2R16  
F2R18  
F2R22  
F2R23  
F3R3  
F3R5  
F3R7  
F3R8  
F3R9  
F3R10  
F3R14  
F3R16  
F3R17  
F3R23  
F3R24  
F4R2  
F4R4  
F4R5  
F4R7  
F4R17  
F4R18

F4R21  
F4R23  
F4R24  
F5R1  
F5R3  
F5R6  
F5R9  
F5R10  
F5R11  
F5R12  
F5R14  
F5R15  
F5R18  
F5R19  
F5R20  
F5R21  
F5R22  
F5R24  
F6R2  
F6R3  
F6R7  
F6R10  
F6R14  
F6R19  
F6R20  
F6R22  
F6R23  
F7R4  
F7R14  
F7R15  
F7R18  
F7R19  
F7R20  
F7R24  
F8R2  
F8R18  
F8R20  
F9R2  
F9R3  
F9R4  
F9R5  
F9R6  
F9R7  
F9R8  
F9R9  
F9R10  
F9R12  
F10R3  
F10R4  
F10R5  
F10R6

F10R7  
F10R11  
F11R1  
F11R2  
F11R6  
F11R7  
F11R8  
F11R9  
F11R10  
F12R1  
F12R2  
F12R3  
F12R4  
F12R5  
F12R6  
F12R7  
F12R8  
F12R10  
F12R12  
F13R2  
F13R4  
F13R6  
F13R10  
F13R11  
F13R12  
F14R3  
F14R5  
F14R6  
F14R7  
F14R9  
F14R10  
F15R2  
F15R3  
F15R8  
F15R10  
F16R2  
F16R3  
F16R4  
F16R6  
F16R10  
F17R1  
F17R2  
F17R3  
F17R8  
F17R10  
F17R11  
F17R12  
F18R2  
F18R3  
F18R7  
F18R8

F18R11  
F19R6  
F19R7  
F19R8  
F19R9  
F19R11  
F19R12  
F20R2  
F20R5  
F20R8  
F20R9  
F20R10  
F20R12  
F21R2  
F21R4  
F21R5  
F21R7  
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F21R9  
F21R12  
F22R2  
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F22R11  
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F23R2  
F23R6  
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F23R10  
F23R11  
F23R12  
F24R4  
F24R6  
F24R9  
F24R10  
F24R11  
F24R12  
F41R14  
F41R16  
F41R18  
F41R22  
F41R23  
F42R14  
F42R17  
F42R18  
F42R22  
F43R13

F43R14  
F43R15  
F43R16  
F43R17  
F43R18  
F43R21  
F44R14  
F44R15  
F44R16  
F44R17  
F44R21  
F44R23  
F45R13  
F45R14  
F45R18  
F45R19  
F45R20  
F45R21  
F45R22  
F46R14  
F46R17  
F46R18  
F46R19  
F46R20  
F46R23  
F47R16  
F47R18  
F47R20  
F47R23  
F47R24  
F48R13  
F48R20  
F48R23  
F48R24