|  |  |  |  |
| --- | --- | --- | --- |
| **Picking Round** | **Position relative to TSS** | **Off-target criteria** | **On-target criteria -** **Rule Set2 score** |
| 1 | -150 to -75 | <=1 perfect match | >=0.2 |
| 2 | -200 to -25 | <=1 perfect match | >=0.2 |
| 3 | -250 to 0 | <=1 perfect match | >=0.2 |
| 4 | -150 to -75 | <=5 perfect match | >=0.2 |
| 5 | -200 to -25 | <=5 perfect match | >=0.2 |
| 6 | -250 to 0 | <=5 perfect match | >=0.2 |
| 7 | -150 to -75 | <=5 perfect match | >0 |
| 8 | -200 to -25 | <=5 perfect match | >0 |
| 9 | -250 to 0 | <=5 perfect match | >0 |
| 10 | -250 to 0 | <=1 perfect match | >0 |
| 11 | -300 to 0 | <=1 perfect match | >0 |
| 12 | -300 to +300 | Any  | Any |

CRISPRa library design picking criteria