CRISPR Genomic DNA Target Sequence 1 of 4

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DNA cds 5’ 🡪 3’ | | | | | | | | | | | | | | | | | | | | |
|  | 1 |  |  |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  |  | 20 |
| 5’ PO4- | G | C | G | C | T | A | T | A | T | A | T | A | G | T | A | T | A | T | A | T |
| 3’ HO- | C | G | C | G | A | T | A | T | A | T | A | T | C | A | T | A | T | A | T | A |
| DNA temp 3’ 🡪 5’ | | | | | PROMOTOR: bp 5-27, 🡪 | | | | | | | | | | | | | | | |

CRISPR Genomic DNA Target Sequence 2 of 4

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DNA cds 5’ 🡪 3’ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | |  | |  | |  | |  | | | |  |  | |  | | 30 | |  | |  | |  | |  |  | |  | |  | | 40 | | |
| A | C | | G | | A | | T | | A | T | A | | | T | | G | | G | | A | | G | | T | A | | T | | G | | C | | T | C | |
| T | G | | C | | T | | A | | T | A | T | | | A | | C | | C | | T | | C | | A | T | | A | | C | | G | | A | G | |
| 🡨 PROMOTOR: bp 5-27 | | | | | | | | | | | | DNA temp 3’ 🡪 5’ | | | | | | | | | | | | | Coding Region 🡪 | | | | | | | | | |

CRISPR Genomic DNA Target Sequence 3 of 4

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DNA cds 5’ 🡪 3’ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | |  | |  | |  | |  | | | |  |  | |  | |  | |  | | 51 | |  | |  |  | |  | |  | | 60 | | |
| A | C | | G | | A | | T | | A | T | A | | | T | | G | | T | | A | | G | | T | A | | T | | G | | C | | T | C | |
| T | G | | C | | T | | A | | T | A | T | | | A | | C | | A | | T | | C | | A | T | | A | | C | | G | | A | G | |
| 🡨 Coding Region bp 35-67🡪 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CRISPR Genomic DNA Target Sequence 4 of 4

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| DNA cds 5’ 🡪 3’ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61 | |  | |  | |  | |  | | | |  |  | |  | | 70 | |  | |  | |  | |  |  | |  | | 79 | | |  |
| A | C | | G | | G | | T | | A | A | A | | | T | | G | | T | | A | | G | | T | A | | T | | G | | C | T | 3’ OH | |
| T | G | | C | | C | | A | | T | T | T | | | A | | C | | A | | T | | C | | A | T | | A | | C | | G | A | 5’ PO4 | |
| 🡨 Coding Region | | | | | | | | | | | | DNA template 3’ 🡪 5’ | | | | | | | | | | | | | | | | | | | | | |