

T G G G G C C C A G A C T G A G C A C G T G A T G G C A G A G G A A A G G A A G - Reference  
sgRNA

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |                 |                    |                 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-----------------|--------------------|-----------------|
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | C | G | T | G | A | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A | G               | -               | 41.80% (102 reads) |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | C | G | T | G | A | T | G | G | C | A | A | A | G | G | A | A | A | G | G | A | A | G               | -               | 21.72% (53 reads)  |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | - | - | - | - | - | - | - | - | - | G | A | G | G | A | A | A | G | G | A | A | G | -               | 3.28% (8 reads) |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | - | - | - | - | - | - | - | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A | G | -               | 2.46% (6 reads) |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | C | G | - | - | - | - | - | - | C | A | G | A | G | G | A | A | A | G | G | A | A | G               | -               | 2.05% (5 reads)    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | C | - | T | G | A | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A | G               | -               | 1.64% (4 reads)    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | C | G | G | T | G | A | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A               | -               | 1.64% (4 reads)    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | - | - | T | G | A | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A | G               | -               | 1.23% (3 reads)    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | A | - | - | - | - | - | - | - | - | - | A | G | G | A | A | A | G | G | A | A | G | -               | 1.23% (3 reads) |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | C | G | T | T | G | A | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A               | -               | 1.23% (3 reads)    |                 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | -               | 0.82% (2 reads) |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | G | C | A | G | A | G | G | A | A | A | G | G | A | A | G               | -               | 0.82% (2 reads)    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | C | G | - | - | - | - | - | - | - | A | G | A | G | G | A | A | A | G | G | A | A | G               | -               | 0.82% (2 reads)    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | C | G | - | G | A | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A | G               | -               | 0.82% (2 reads)    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | C | G | C | T | G | A | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A               | -               | 0.82% (2 reads)    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | A | G | C | A | C | G | T | T | G | A | T | G | G | C | A | A | A | G | G | A | A | A | G | G | A | A               | -               | 0.82% (2 reads)    |                 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | A | A | G | G | A | A | A | G | G | A | A | G | -               | 0.41% (1 reads) |                    |                 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C | A | A | A | G | G | A | A | A | G | G | A | A | G | -               | 0.41% (1 reads) |                    |                 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | G | C | A | G | A | G | G | A | A | A | G | G | A | A | G | -               | 0.41% (1 reads) |                    |                 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A               | G               | -                  | 0.41% (1 reads) |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | T | G | A | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A | G               | -               | 0.41% (1 reads)    |                 |
| A | C | G | T | C | A | A | T | A | G | G | G | G | G | C | G | T | A | C | T | - | - | - | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A | G               | -               | 0.41% (1 reads)    |                 |
| T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | T | G | G | C | A | A | A | G | G | A | A | A | G | G | A | A | G               | -               | 0.41% (1 reads)    |                 |
| T | G | G | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | T | G | G | C | A | G | A | G | G | A | A | A | G | G | A | A | G               | -               | 0.41% (1 reads)    |                 |
| T | G | G | G | G | C | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | G | A | G | G | T | A | A | G | G | A | A | G | -               | 0.41% (1 reads) |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | G | G | A | A | A | G | G | A | A | G | -               | 0.41% (1 reads) |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G | G | G | G | C | C | C | A | G | A | C | T | G | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41% (1 reads) |                 |                    |                 |
| T | G |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |                 |                    |                 |

**bold** Substitutions

Insertions

- Deletions

----- Predicted cleavage position