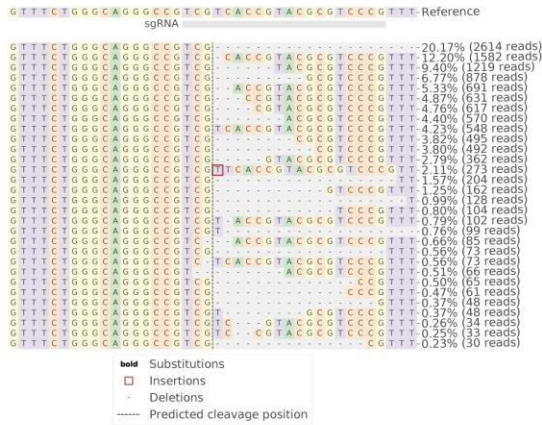
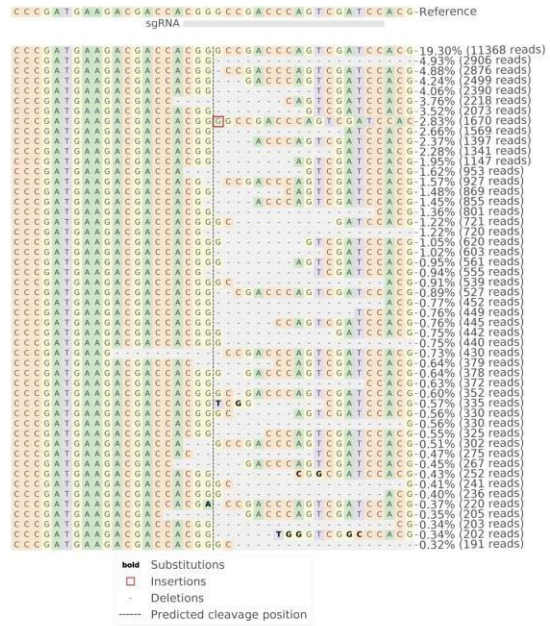


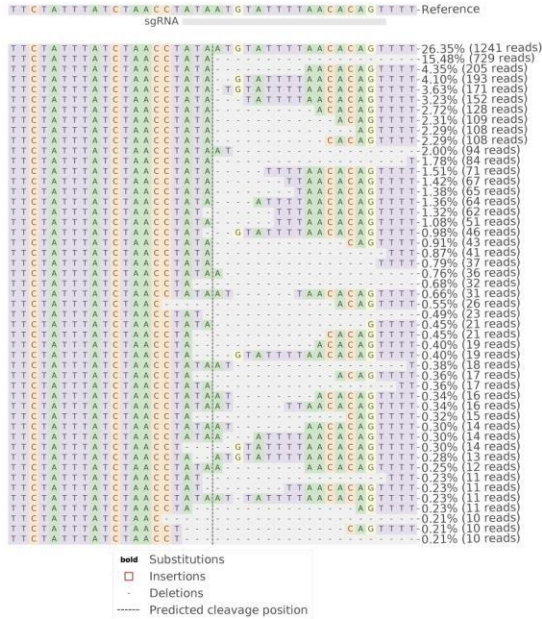
N-13-1 KWMTBOMO11394



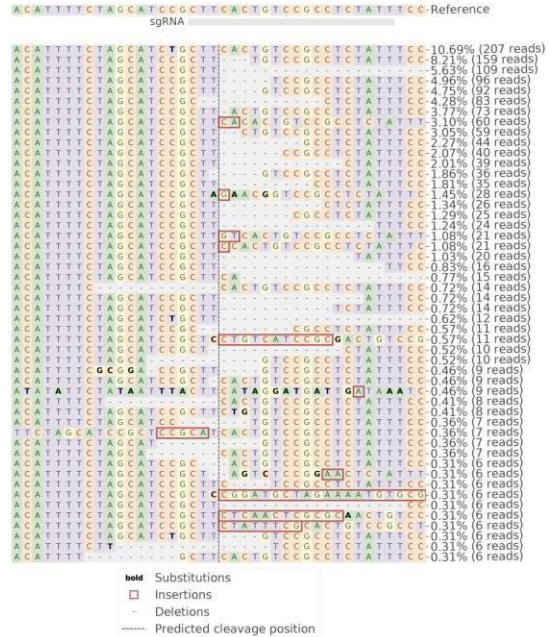
N-16-1 KWMTBOMO04918



N-24-1 KWMTBOMO07119

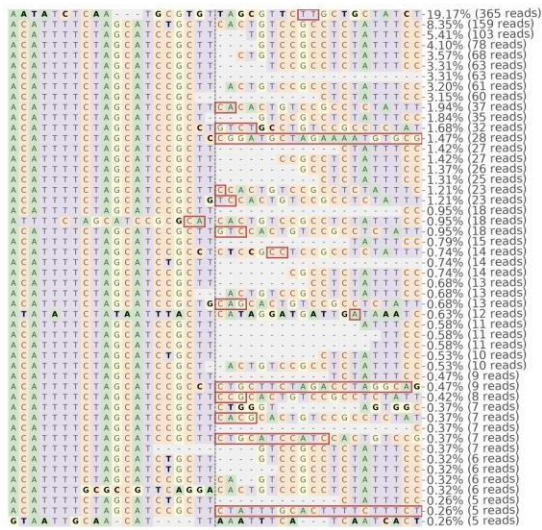


N-24-1 KWMTBOMO12000



N-24-2 KWMTBOMO12000

sgRNA Reference



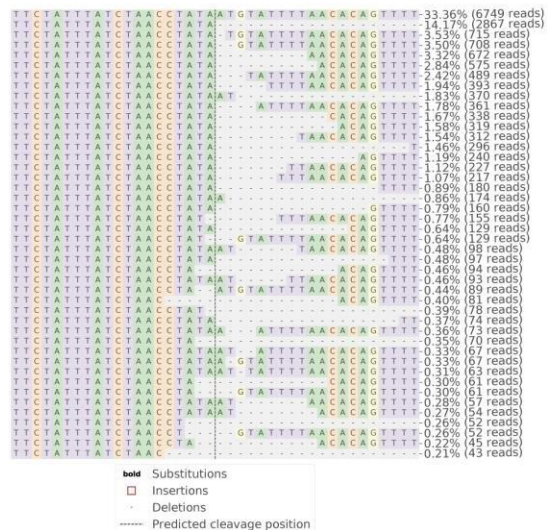
N-54-2 KWMTBOMO00711

sgRNA Reference



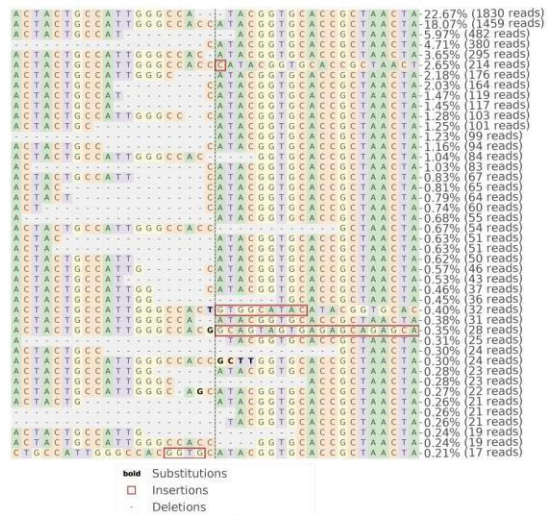
N-44 KWMTBOMO07119

sgRNA Reference

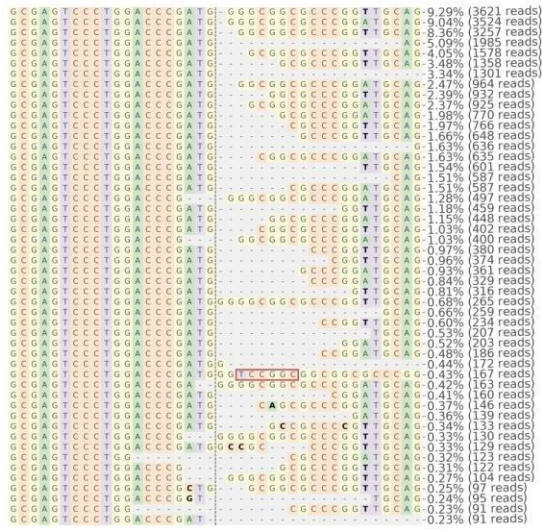


N-65-1 KWMTBOMO03319

sgRNA Reference

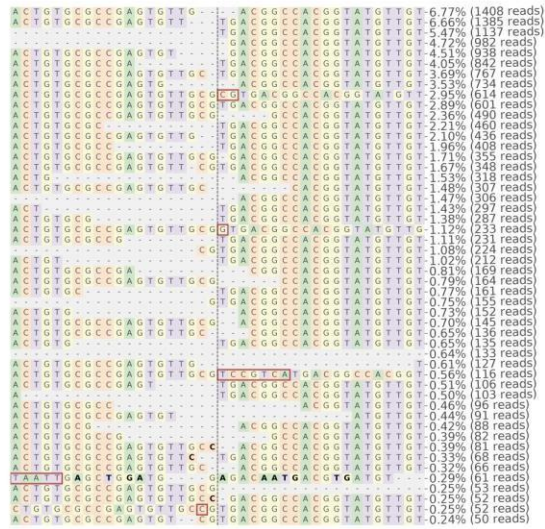


GCGAGTCCCTGGACCCGATGGGGGCGGCCGCCCGGATGCAG-Reference
sgRNA



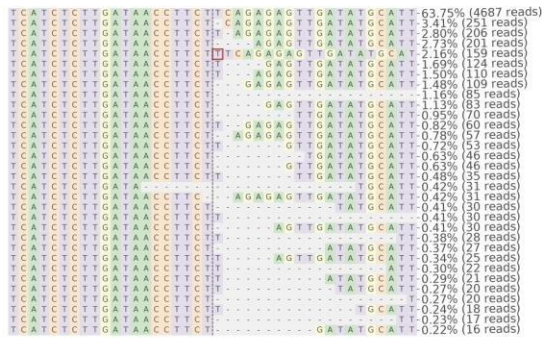
- bold** Substitutions
- Insertions
- Deletions
- Predicted cleavage position

ACTGTGCGCCGAGTGTGTGCGTGACGGCCACGGTATGTTGT-Reference
sgRNA



- bold** Substitutions
- Insertions
- Deletions
- Predicted cleavage position




TCATCTCTTGATAACCTTCTTCAGAGAGTTGATATGCATT-Reference
sgRNA



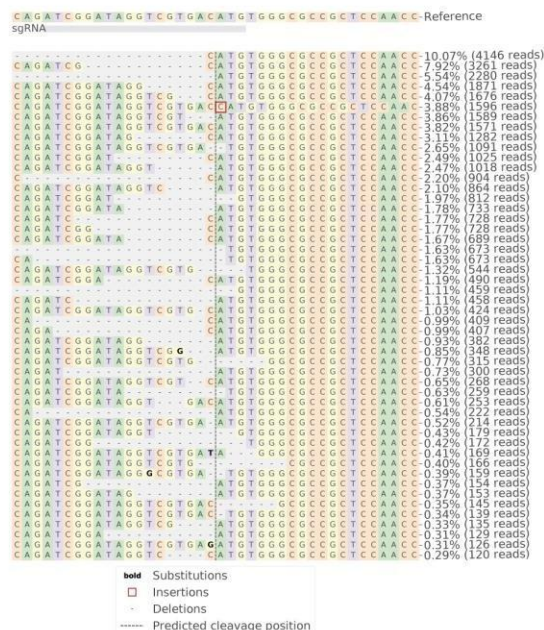
- Substitutions**
- Insertions
- Deletions
- Predicted cleavage position

AAGTTACGCACTGTCGCGACTGGCCCTGCTCGAGTCTG-Reference
sgRNA

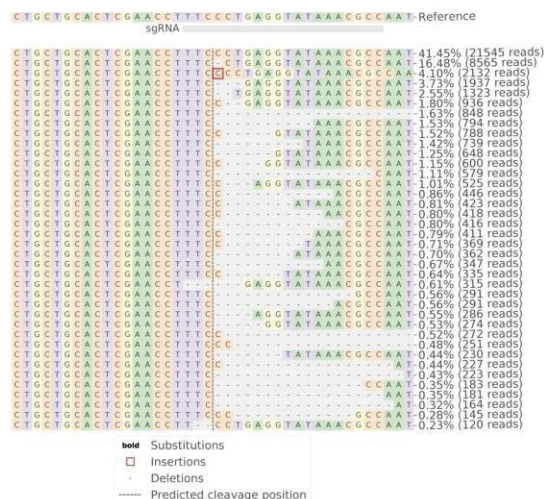


- bold** Substitutions
-  Insertions
-  Deletions
-  Predicted cleavage position

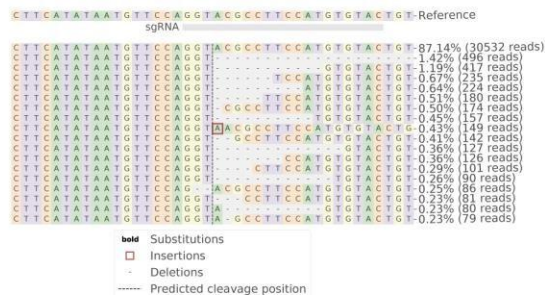
N-130-2 KWMTBOMO06044



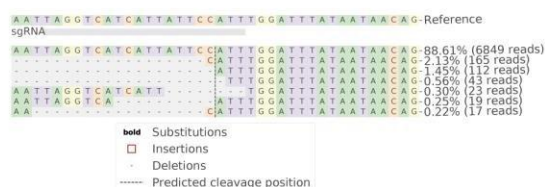
N-152-1 KWMTBOMO15293



N-160-1 KWMTBOMO06407



N-175-1 KWMTBOMO01862



N-195-2 KWMTBOMO01805

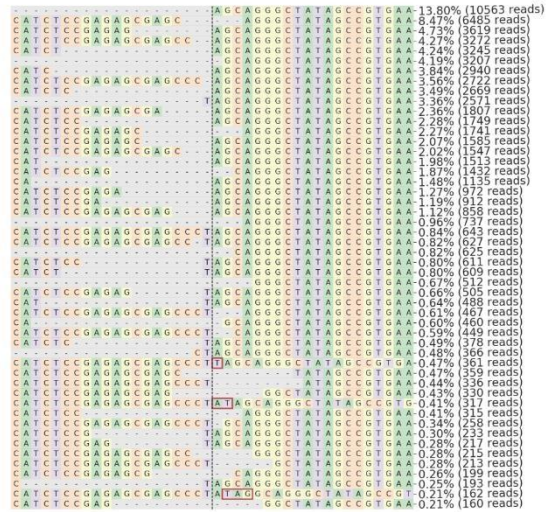
CTTGTTC AATTTCACACAGATGATGGCAAGCTTTGGCCAA-Reference
sgRNA



bold Substitutions
Insertions
Deletions
----- Predicted cleavage position

N-204-1 KWMTBOMO06524

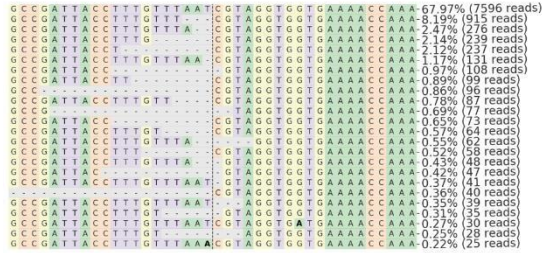
CATCTCCGAGAGCGAGGCCATAGCAGGCGTATAGCCGTGAA-Reference
sgRNA



bold Substitutions
Insertions
Deletions
----- Predicted cleavage position

N-221-2 KWMTBOMO05783

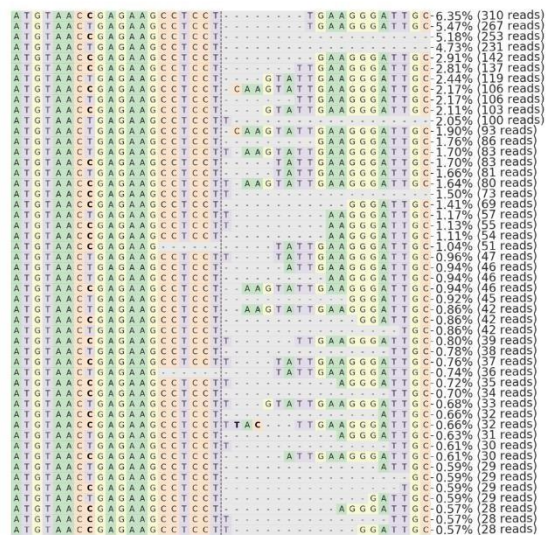
GCCGATTACCTTTGTTTAACTGTAGGTGTGAAAAACAA-Reference
sgRNA



bold Substitutions
Insertions
Deletions
----- Predicted cleavage position

N-223 KWMTBOMO11741

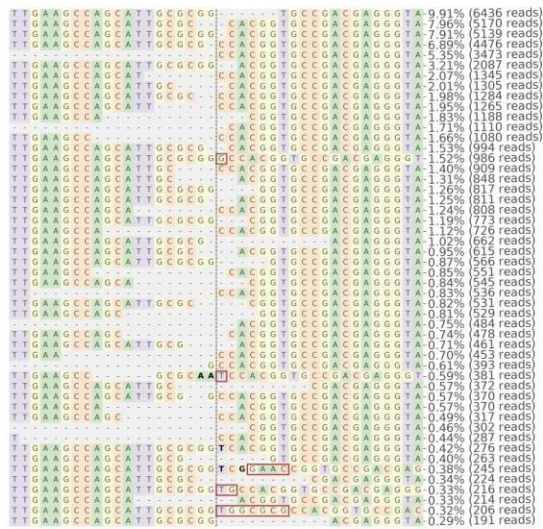
ATGTAACTGAGAAAGCCTCCTTCAAGTATTGAAGGATTG-Reference
sgRNA



bold Substitutions
Insertions
Deletions
----- Predicted cleavage position

N-233 KWMTBOMO09983

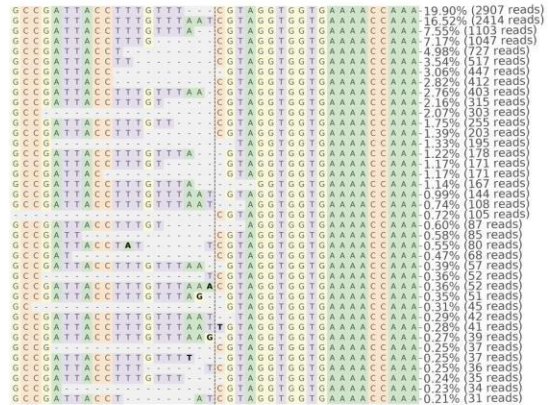
sgRNA



bold Substitutions
 Insertions
 Deletions
 Predicted cleavage position

N-241-2 KWMTBOMO05783

sgRNA



bold Substitutions
 Insertions
 Deletions
 Predicted cleavage position

N-257-1 KWMTBOMO04687_promoter

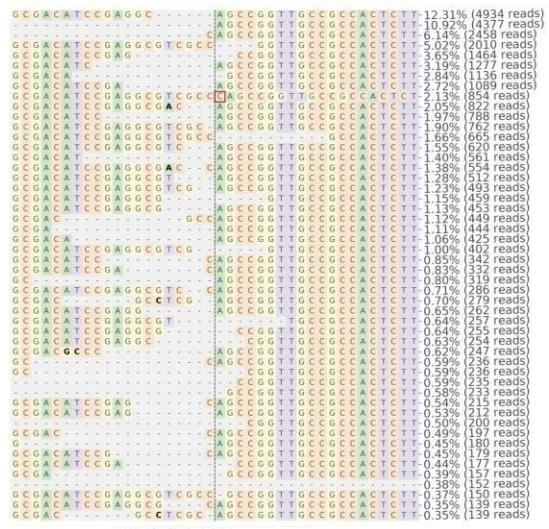
sgRNA



bold Substitutions
 Insertions
 Deletions
 Predicted cleavage position

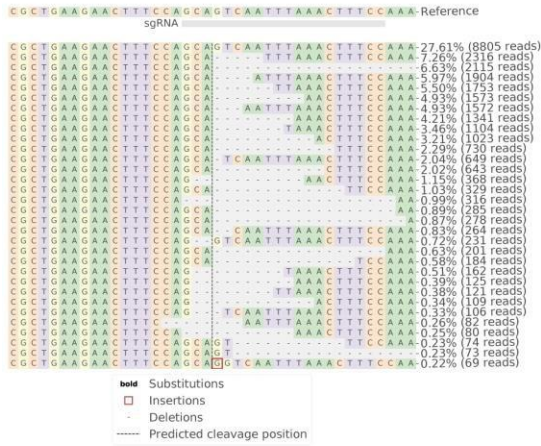
N-268-2 KWMTBOMO02712

sgRNA

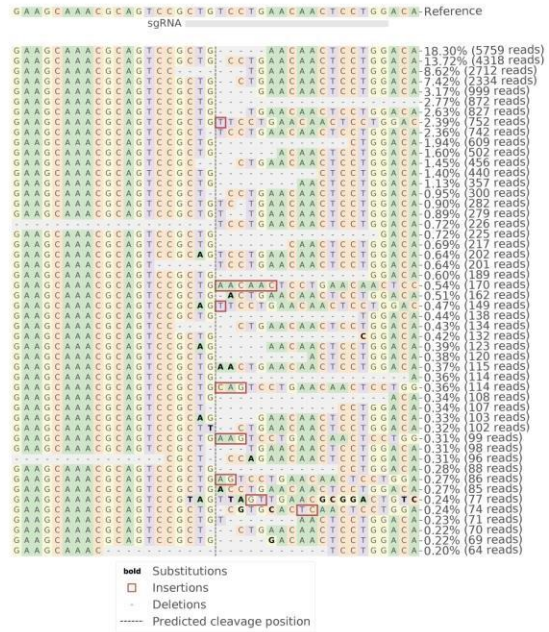


bold Substitutions
 Insertions
 Deletions
 Predicted cleavage position

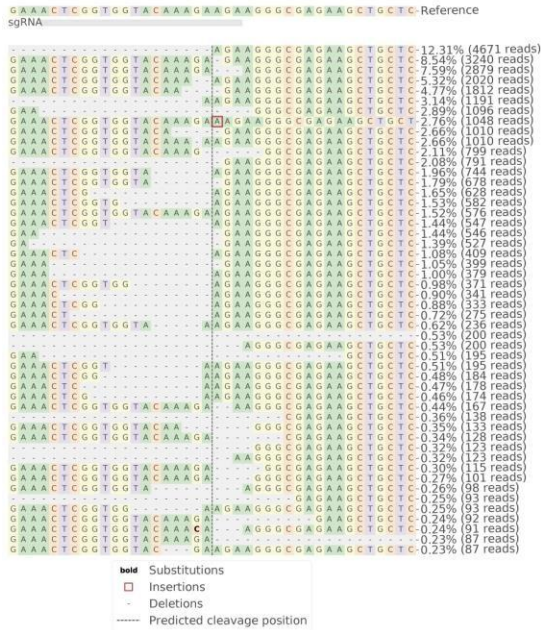
N-280-3 KWMTBOMO12902



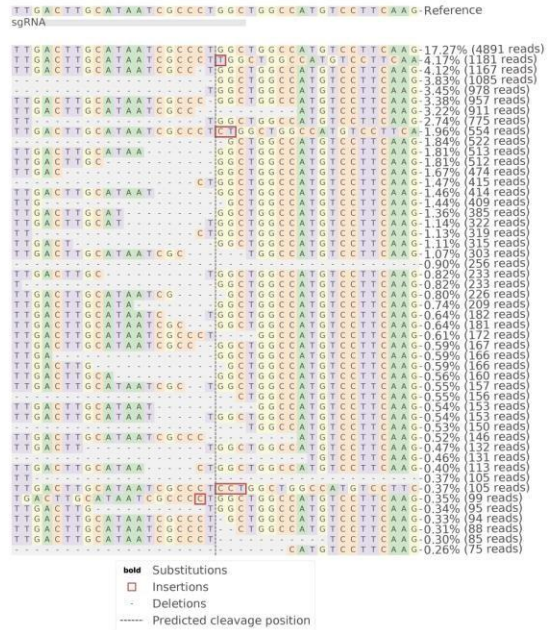
N-292-1 KWMTBOMO04687



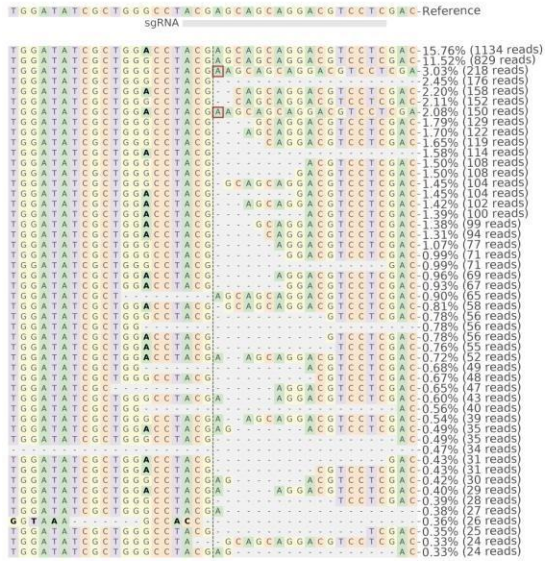
N-296-1 KWMTBOMO03436



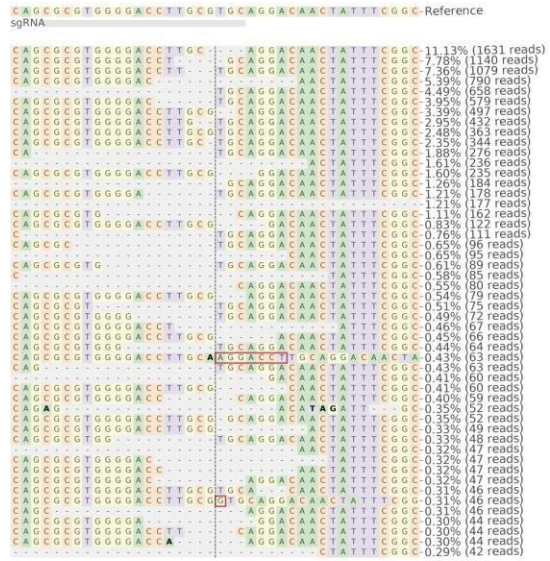
N-297-2 KWMTBOMO08464



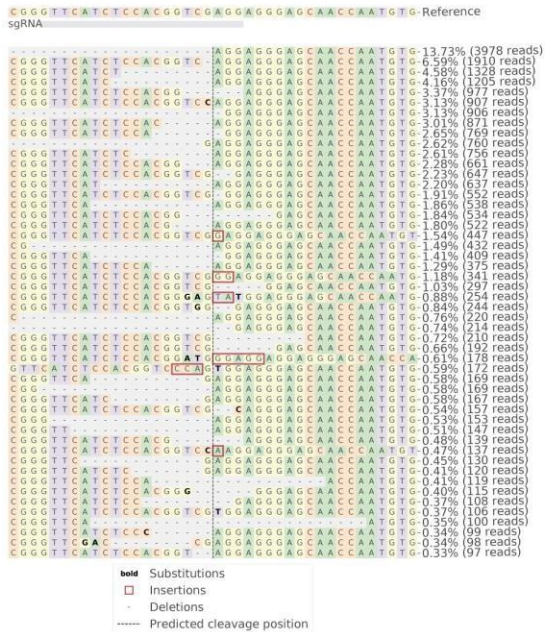
N-297-2 KWMTBOMO13971



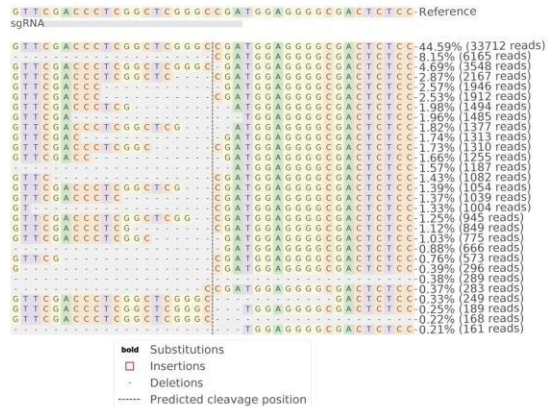
N-300-1 KWMTBOMO01641

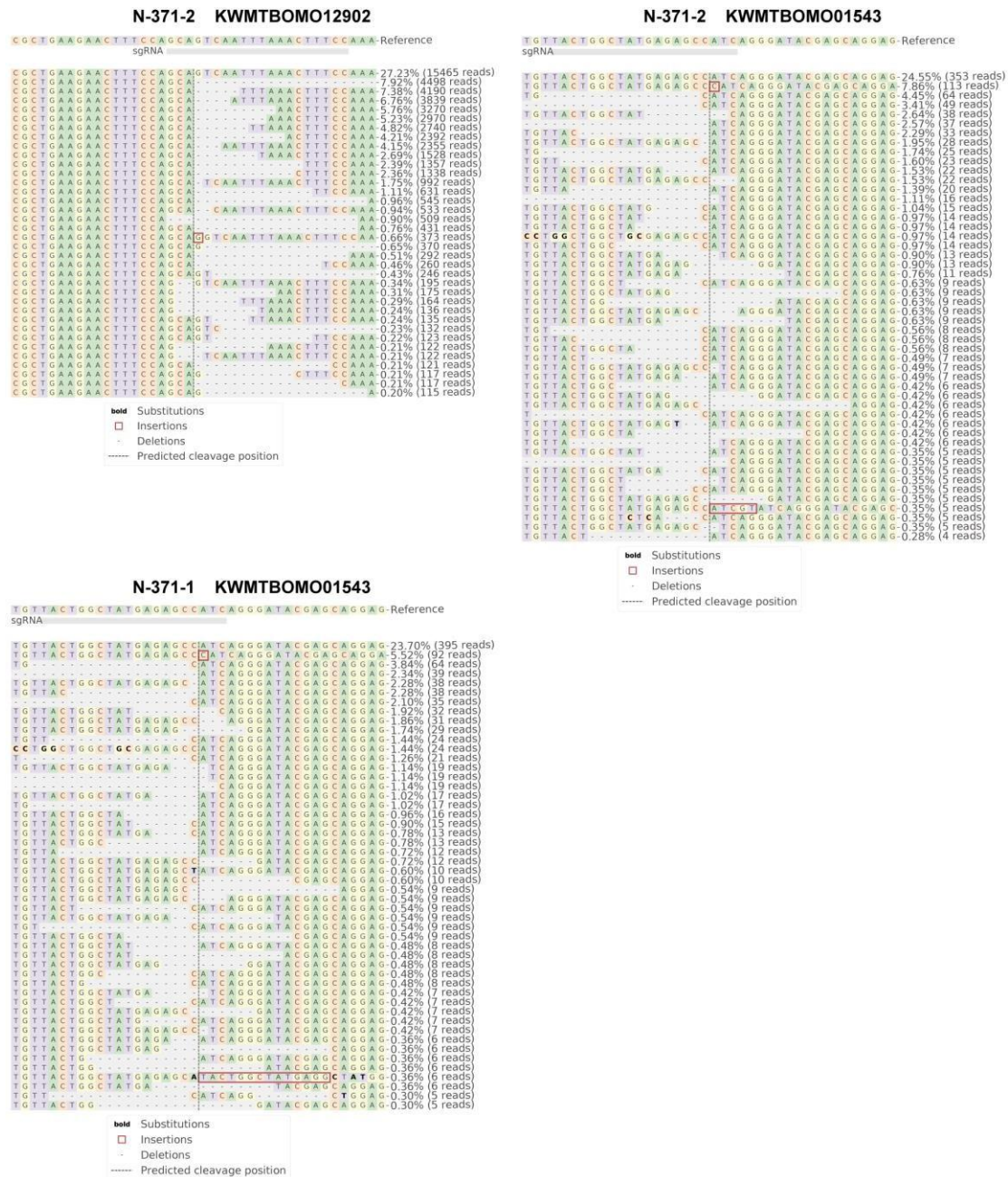


N-353-1 KWMTBOMO08448



N-371-2 KWMTBOMO07554





Supplemental Fig S8. The editing efficiency at target sites of 33 F1 lines. The top of sequence alignment plot shows the sgRNA and its target gene sequences, the sequences and frequency of edited alleles is shown below.