

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

bold Substitutions

 Insertions

- Deletions

----- Predicted cleavage position