Substitution (SUB)

Alignment	VCF representation		
1234	POS	REF	ALT
ACGT			
ATGT	2	C	T
^			
1234	POS	REF	ALT
ACGT			
ATCT	2	CG	TC
^^			

Insertion (INS)

Alignment	VCF representation		
12 34	POS	REF	ALT
AC-GT			
ACTGT	2	C	CT
^			
34 56	POS	REF	ALT
GT--TC			
GTAATC	4	T	TAA
^^			

Deletion (DEL)

Alignment	VCF representation		
1234	POS	REF	ALT
ACGT			
A-GT	1	AC	A
^			
1234	POS	REF	ALT
ACGT			
A--T	1	ACG	A
^^			

Replacement (REP)

Alignment	VCF representation		
1234	POS	REF	ALT
ACGT			
A-TT	1	ACG	AT
^^			
34 56	POS	REF	ALT
GT-TC			
GTAAC	4	TT	TAA
^^			