

original	A	T	G	C	G	T	A	C	G	T	T
mutation_1	A	T	G	C	G	T	A	C	A	T	T
mutation_2	A	T	G	C	G	T	A	C	G	A	T
mutation_3	A	T	G	C	G	T	A	C	G	T	C
mutation_4	A	T	G	C	G	T	A	C	G	T	A