

## ZK0664

Target Position: exon 3

Sense Strand Sequence

ACCACTCCAGCATATCCACAGACACAACCTCAAGATCATGTTGCCCTTATTGTCTCTCTTTCTTTCTTTCTGAACTTGAAAGGGATGAAATCATTAGAAAGCGTTCAATCGTGTGCACCAAGGCTCAAATACAAATGCATTGTGCTTTTCTCTGAAAAGGGGGCAACAAGCTGAAGCCACAACCATTCCGTCTCAATTGGGCCTGGATATCCATGGAAAGGGAATACTATATTGTGGACGAGACTGCAAA GTTTTTGGAGGTCCTCTCAAACGAAGAGGATACTTGGGAGAGACATCA

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0664a: 9bp deletion

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

```
WT          CAACCATTCGGTCTCAATTGGGCCTGGATATCCATGGAAAGGGAATACTATATTGTGGAC
ZK0664a     CAACCATTCGGTCTCAATTGGGCCTGGAT-----AAGGGAATACTATATTGTGGAC
*****
```

```
WT          GAGACTGCA
ZK0664a     GAGACTGCA
*****
```

### ZK0664b: 8bp deletion

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

```
WT          AACCATTCCGTCTCAATTGGGCCTGGATATCCATGGAAAGGGAATACTATATTGTGGACG
ZK0664b     AACCATTCCGTCTCAATTGGGCCTGGATAT-----AGGGAATACTATATTGTGGACG
*****
```

```
WT          AACTGCA
ZK0664b     AACTGCA
*****
```