

ZKO183

Target Position: 1119bp deletion

Sense Strand Sequence

accggcactttgagctctgaaatcaaaaaatgtattgaggtgaaacaaaaatcaatcaaatggctttatactccgaaggc
ttaaacaacaaacaaaaaatgatctagctaagaaactgaaaatgtatacctttaattcacagactaaatggaccttcctg
agcacattctgcaagtgaagcttctgagcttgctgctgccttgactgcattttaattgccaagaggttttctagcaaa
actctttctaagtgtttacttaataaaaaagtaactactttgcaaaaactatttgaaagcgtaacagaccactcttctg
cgagaaacctcaaccgtttgcgcaaattgcgaccgaaaatttcccactgaccctcgctaaactcccgaacacactgaat
aataagcacactgtcttgcaaaactgaacctctacaacgcaagacaccacgcgtcacgtcacttgcgtttccattggcca
caccggatcagtcgtaggacgcaggtgggctaataaggacagcaattcttctctctgttaaacattgcaggtcagca
tctcgatgacgctcagatttgcctcaaaaagtctctctgagagctgtaacttattaataactgaggggaagATG
TCTCTGTTAGTGCAGGAGCATCGGACGGTGCCTTTGTGTTTCTGGGCGCAGCCGGGGTTG
GTA AACCGCCCTGATCACCCGCTTCTGCAGGATCGATTGACTCCAAATACACGCGCACG
GTGGAAGAGCTTACGCGCTCGAGTACGACACTGAAGGCGCTCGGGTGCATGAGATC
TTGGATACGAGCGGAAGTTATCCCTTCTGCGATGCGCGCTCTTTCATCCGAACCGGGGA
CGCGTTTGCCTCGTGTACGACGCCGACGAGCCAGATTCCCTGGAGGAGGTGCAGAGACTT
CGTGAGGAGATTCTGGAGCTAAAAGGAGAGAGTTTTACTGGCATCACGGTGCATCGAGAAC
AAAGCGGACCTGTGCAGCCGGAGTCGCCAGGCCACTGCGGAGGCGATGCGCGCGGTGGA
GGAGGACTGGGGCGCGGGCTTCGTGAAACCTCCGCGCGCACCGGCGACAATGTCACAGC
TGTGTTTCCGGACTTGCTTCAACAGATGAAGTTACCGAGCCGGGTGAGTCCGGCACTGCGC
AGACGGACACAGACAATGTCCAGAGAGCTCACAGAGAAGCGGGAAAAGCCCCAATGAAG
AAAAACAACAGCTGCATCTTGTCTTGAatggacatatatgaaaatgtagttatgcatcactgatgcttaa
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atgctgtatgtctgtctctctaaatgagagctaaagtatctttgtgagtgaaataatgcaaatatgtccagtcaactt
gtgtcttctgcttttaatgaaatttaataatgcatctaatgaaaatgtgtcttacagggtcaaggcggagaggggtttc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO183a: 1119bp deletion

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

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WT          ctcaaccgtttgcgcaaattgcgaccgaaaatttcccactgaccctcgctaaactcccg
ZKO183a     ctcaaccgtttgcgcaaattgcgaccgaaag-----
            *****

WT          aacacactgaataataagcacactgtcttgcaaaactgaacctctacaacgcaagacacc
ZKO183a     -----
```

WT	acgcgtcacgtcacttgcgtttccattggccacaccggatcagtgcgtaggacgcaggtg
ZK0183a	-----
WT	ggctaataataaggacagcaattcttctctctgttaaacattgcaggtcagcatctcgatg
ZK0183a	-----
WT	acgctcagatthtgc tcatcaaaagtctcctctgagagctgtaacttattaaattaataac
ZK0183a	-----
WT	tgagggaagATGTCTCTGTTAGTGCAGGAGCATCGGACGGTGC GCTTTGTGTTTCTGGGC
ZK0183a	-----
WT	GCAGCCGGGTTGGTAAAACCGCCCTGATCACCCGCTTCTTGCAGGATCGATTGACTCC
ZK0183a	-----
WT	AAATACACGCGCACGGTGAAGAGCTTACGCGCTCGAGTACGACACTGAAGGCGCTCGG
ZK0183a	-----
WT	GTGCGCATTGAGATCTTGATACGAGCGGAAGTTATCCCTTCTCGGATGCGCGCTCTT
ZK0183a	-----
WT	TGCATCCGAACCGGGGACGCGTTTGC GCTCGTGTACGCAGCCGACGAGCCAGATTCCTG
ZK0183a	-----
WT	GAGGAGGTGCAGAGACTTCGTGAGGAGATTCTGGAGCTAAAAGGAGAGATTTTACTGGC
ZK0183a	-----
WT	ATCACGGTGATCGAGAACAAAGCGGACCTGTGCAGCCGGAGTCGCCAGGCCACTGCGGAG
ZK0183a	-----
WT	GCGATGCGCGGGTGGAGGAGACTGGGGCGGGCTTCGTGAAAACCTCCGCGCGCACC
ZK0183a	-----
WT	GGCGACAATGTCACAGCTGTGTTTCGGGACTTGCTTCAACAGATGAAGTTACCGAGCCGG
ZK0183a	-----
WT	GTGAGTCCGGCACTGCGCAGACGGACACAGACAATGTCCAGAGAGCTCACAGAGAAGCGG
ZK0183a	-----
WT	GAAAAGCCCCAATGAAGAAAAACAACAGCTGCATCTTGCTTGA tggacatatatatga
ZK0183a	-----

WT aaatgtagttatgcatcatactgatgcttaagtgatctggatcaaata tagacccacat
ZK0183a -----

WT aaatgttttatgtgtgtttatgetttatcattatcatttaaaggaattctctgaatgctg
ZK0183a -----

WT tatgtctggtctctctaaatgagagctaaagtgatcttttgtagtgaataaatgcaaat
ZK0183a -----

WT atgttcagtcacttggttcttctgcttttaataatgaaatt
ZK0183a -----aacttggttcttctgcttttaataatgaaatt
