Supplementary Table 2

▼ Mb2 cut site
▼ Cas cut site
Sense-strand
Antisense-strand
Insertion sequence
Deletion sequence
3' mismatch tail

SITE 1

Mb2:

HDRT-B (Sense):

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGggcggcgctggcgggtacccatacgacgttccgga
ttacgctggcggcgccggcggctactttgattatTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAGGTGAGTCCTCACAACCTC
```

Jeko-HCDR3:

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
```

3' mismatch tail = 34 nt

Mb2:

HDRT-B (Antiense):

```
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCccgccgcgaccgcccatgggtatgctgcaaggcct
aatgcgaccgccgcggccgccgatgaaactaataACCCCGGTCCCTTGGGACCAGTGGCAGAGGAGTCCACTCAGGAGTGTTGGAG
```

3' mismatch tail = 0 nt

Jeko-HCDR3:

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
```

Cas9:

HDRT-B (Sense)

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGggcggcgctggcgggtacccatacgacgttccgga
ttacgctggcggcgccggcggctactttgattatTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAGGTGAGTCCTCACAACCTC
```

Jeko-HCDR3:

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
```

3' mismatch tail = 36 nt

Cas9:

HDRT-B (Antiense)

```
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCccgccgcgaccgcccatgggtatgctgcaaggcct
aatgcgaccgccgcggccgccgatgaaactaataACCCCGGTCCCTTGGGACCAGTGGCAGAGGAGTCCACTCAGGAGTGTTGGAG
```

3' mismatch tail = 0 nt

Jeko-HCDR3:

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
```

SITE 2

Mb2:

HDRT-B (Sense)

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGggcggcgctggcgggtacccatacgacgttccgga
ttacgctggcggcgccggcggctactttgattatTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAGGTGAGTCCTCACAACCTC
```

Jeko-HCDR3:

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
```

3' mismatch tail = 0 nt

Mb2:

HDRT-B (Antisense)

```
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCccgccgcgaccgcccatgggtatgctgcaaggcct
aatgcgaccgccgcggccgccgatgaaactaataACCCCGGTCCCTTGGGACCAGTGGCAGAGGAGTCCACTCAGGAGTGTTGGAG
```

3' mismatch tail = 31 nt

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
```

Cas9:

HDRT-B (Sense)

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGggcggcgctggcgggtacccatacgacgttccgga
ttacgctggcggcgccggcggctactttgattatTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAGGTGAGTCCTCACAACCTC
```

Jeko-HCDR3:

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
```

3' mismatch tail = 2 nt

Cas9:

HDRT-B (Antisense)

```
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCccgccgcgaccgcccatgggtatgctgcaaggcct
aatgcgaccgccgcggccgccgatgaaactaataACCCCGGTCCCTTGGGACCAGTGGCAGAGGAGTCCACTCAGGAGTGTTGGAG
```

Jeko-HCDR3:

3' mismatch tail = 34 nt

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
```

SITE 3

Mb2:

HDRT-B (Sense)

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGggcggcgctggcgggtacccatacgacgttccgga
ttacgctggcggcgccggcggctactttgattatTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAGGTGAGTCCTCACAACCTC
```

Jeko-HCDR3:

```
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
```

3' mismatch tail = 0 nt

Mb2:

HDRT-B (Antiense)

```
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCccgccgcgaccgcccatgggtatgctgcaaggcct
aatgcgaccgccgcggccgccgatgaaactaataACCCCGGTCCCTTGGGACCAGTGGCAGAGGAGTCCACTCAGGAGTGTTGGAG
Jeko-HCDR3:                                                                3' mismatch tail = 40 nt
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT

CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
|||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
Cas9:
HDRT-B (Sense)
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGggcggcgctggcgggtacccatacgacgttccgga
ttacgctggcggcgccggcggctactttgattatTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAGGTGAGTCCTCACAACCTC
Jeko-HCDR3:
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT

CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
|||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
3' mismatch tail = 0 nt
Cas9:
HDRT-B (Antisense)
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCccgccgcgaccgcccatgggtatgctgcaaggcct
aatgcgaccgccgcggccgccgatgaaactaataACCCCGGTCCCTTGGGACCAGTGGCAGAGGAGTCCACTCAGGAGTGTTGGAG
Jeko-HCDR3:                                                                3' mismatch tail = 41 nt
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT

CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
|||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG
```

SITE 4

```
Mb2:
HDRT-B (Sense)
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGggcggcgctggcgggtacccatacgacgttccgga
ttacgctggcggcgccggcggctactttgattatTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAGGTGAGTCCTCACAACCTC
Jeko-HCDR3:
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC                                          3' mismatch tail = 8 nt
|||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG

Mb2:
HDRT-B (Antiense)
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCccgccgcgaccgcccatgggtatgctgcaaggcct
aatgcgaccgccgcggccgccgatgaaactaataACCCCGGTCCCTTGGGACCAGTGGCAGAGGAGTCCACTCAGGAGTGTTGGAG
Jeko-HCDR3:                                                3' mismatch tail = 23 nt
ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATTGGAGGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
|||||||||||||||||||||||||||||||||
```

GACCCCGGTCC**CTTG**GGACCAGTGGCAGAGGAG

Cas9:

HDRT-B (Sense)

ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGggcggcgctggcgggtacccatacgacgttccgga
ttacgctggcggcgccggcggctactttgattatTGGGGCCAGGGAACCCTGGTCACCGTCTCCTCAGGTGAGTCCTCACAACCTC

Jeko-HCDR3:

ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATT**GGA**GGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG

3' mismatch tail = 7 nt

Cas9:

HDRT-B (Antisense)

TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCccgccgcgaccgcccatgggtatgctgcaaggcct
aatgcgaccgccgcggccgccgatgaaactaataACCCCGGTCCCTTGGGACCAGTGGCAGAGGAGTCCACTCAGGAGTGTTGGAG

Jeko-HCDR3:

3' mismatch tail = 29 nt

ACAATGACCAACATGGACCCTGTGGACACAGCCACGTATTACTGTGCACGGATACGGGGTTTTGGAGTGGTTAACCTCCCTGACTA
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
TGTTACTGGTTGTACCTGGGACACCTGTGTCGGTGCATAATGACACGTGCCTATGCCCCAAAACCTCACCAATT**GGA**GGGACTGAT
CTGGGGCCAGGGAACCCTGGTCACCGTCTCCTC
||||||||||||||||||||||||||||||||
GACCCCGGTCCCTTGGGACCAGTGGCAGAGGAG