



1200

1280

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Deleted in F0-07

Deleted in F0-07

Deletion in F0-03 NHEJ + CT

Sequence in N1-5, N1-6, and N1-20 progeny

Etv1\_5\_Rev1

miscellaneous

1360

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Deleted in F0-07

Deleted in F0-07

Deletion in F0-03 NHEJ + CT

Sequence in N1-5, N1-6, and N1-20 progeny

## Primer 1

1440

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Deleted in F0-07

Deleted in F0-07

Deletion in F0-03 NHEJ + CT

Sequence in N1-5, N1-6, and N1-20 progeny

TCAAGATTTAGTCAAGGATTAAGCCTGTGGTTTAACTTCCTTCTTCTTAAGAGTATGAAGTGTGTTGAGTCAAGCCACCAA  
 AGTTCTAAATCAGTTCCTAATTCGGACACCAAATTGAAGGAAGAAGGATTCTCATACTTCACAAACTCAGTTTCGGTGGTT

1520

chr12:38,928,700-38,929,500

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Deleted in F0-07

Deleted in F0-07

Deletion in F0-03 NHEJ + CT

Sequence in N1-5, N1-6, and N1-20 progeny

CCCGTATCCCTGCAGATGAAACCTATTTGCATTTCTCATGCGTGTAAGCCCAGTAAATGTGATTGCTTCCAGCTCACTGC  
 GGGCATAGGGACGTCTACTTTGGATAAACGTAAAGAGTACGCACATTCGGGTCATTTACACTAACGAAGGTCGAGTGACG

1600

chr12:38,928,700-38,929,500

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Deleted in F0-07

Deleted in F0-07

Deletion in F0-03 NHEJ + CT

Sequence in N1-5, N1-6, and N1-20 progeny

CACAGCACCACTCTGCTGCCATTCTTTTACCAAATAACGAAGCCTCAAACAGAGGCTCCGTCTGTGTGCTAAACAGGAAAG  
 GTGTCGTGGTGAGACGACGGTAAGAAAATGGTTTATTGCTTCGGAGTTTGTCTCCGAGGCAGACACACGATTTGTCTCTTC

1680

chr12:38,928,700-38,929,500

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Deleted in F0-07

Deleted in F0-07

Deletion in F0-03 NHEJ + CT

Sequence in N1-5, N1-6, and N1-20 progeny

CATGACTCACGCCTGGAACCCAGAGAGCCAGCAAACCTGCAGCCGTGCTCTTAACTGGCTAAAAGGTCTGTTACCATAGCT  
 GTACTGAGTGCGGACCTTGGGTCTCTCGGTCGTTTGACGTCGGCAGGAGAATTGACCGATTTTCCAGACAATGGTATCGA

1760

chr12:38,928,700-38,929,500

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Deleted in F0-07

Deleted in F0-07

Deletion in F0-03 NHEJ + CT

Sequence in N1-5, N1-6, and N1-20 progeny

**EcoNI**

TTGTAACATATATTCTAAGTGATGGCCTTCCCGACAGGCTTTCATAGGGAGCCTGGTTGAGGGCTAAGCAGATTGTTTTTC  
 AACATTGTATATAAGATTCACTACCGGAAGGGCTGTCCGAAAGTATCCCTCGGACCAACTCCCATTCTGCTCTAACAAAAG

1840

chr12:38,928,700-38,929,500

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Deleted in F0-07

Deleted in F0-07

Deletion in F0-03 NHEJ + CT

Sequence in N1-5, N1-6, and N1-20 progeny

Primer 2

GTTCCCTAACCACAGCACCCCTACTGG

GTTCCCTAACCACAGCACCCCTACTGGCCCTAGTGGAAGGCTCCTCACGGAATTTGATCTTTACTCGTTTGGCATCTGTGCT  
 CAAGGATTGGTGTCGTGGGATGACCGGGATCACCTTCCGAGGAGTGCTTAACTAGAAATGAGCAAACCGTAGACACGA

1920

chr12:38,928,700-38,929,500

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Deleted in F0-07

Deleted in F0-07

Deletion in F0-03 NHEJ + CT

Sequence in N1-5, N1-6, and N1-20 progeny

TATGTATTAGAATGTTTTTCTGCTGTTGTTAAAAATGTCAACAACCAACCAACAAAAATCCCACGACAAATTATACCTCAC  
 ATACATAATCTTACAAAAAGACGACAACAATTTACAGTTGTTGGTTGGTTGTTTTTAGGGTGCTGTTTAATATGGAGTG

2000

chr12:38,928,700-38,929,500

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Deleted in F0-07

Deleted in F0-07

Deletion in F0-03 NHEJ + CT

Sequence in N1-5, N1-6, and N1-20 progeny

Etv1\_3\_Rev2

ATTGGTTTAGATACTTCACTCATGTATAAGTTAATGGATTTAAGGCAATGTTTGATGAACAGGTTTGGAGTTTTGTGTTT  
 TAACCAAATCTATGAAGTGAGTACATATTCAATTACCTAAATTCGTTACAACTACTTGTCCTCAAACTCAAAACACAAA

2080

chr12:38,928,700-38,929,500

Deleted in F0-03 + XhoI RE site

Sequence present in N1-21 pup

Deletion in F0-05 NHEJ + TTCTCTCGAG

Etv1\_3\_Rev2

TTTCCAATAAATTCCTTTTTCCTTGCCCTGTTAGTTCCTTCGTTTTGTTACAGGAAAAATAGTTTCAGCTATGCCAAAATGC  
 AAAGGTTATTTAAGAAAAAAGGAACGGACAATCAAGGAAGCAAAACAATGTCCTTTTATCAAAGTCGATACGGTTTTACG

2160

GGAACGGACAATCAAGGAAGCAA  
 Primer 4

CCCACTCTAGCTACTGGGTTTGCAATACAGACCTTCTACATTTATGCAACTATAGAAGAAAAATACCACACTTTATAGTA  
 GGGTGAGATCGATGACCCAAACGTTATGTCTGGAAGATGTAAATACGTTGATATCTTCTTTTATGGTGTGAAATATCAT

2240

EcoO109I\*

TGTATGTCTCTTGAATAATCACTAATCACCAGGCCCTTTTGAATTGGTGCAAAGTGCAAGGCAGACTGAACCAGGCTACTT  
 ACATACAGAGAACTTATTAGTGATTAGTGGTCCGGGAAAACCTTAACCACGTTTCACGTCCGTCTGACTTGGTCCGATGAA

2320

BamI

PflMI

AGCACTCTTACCTCATTCCCTTGTCTCTAATCTGAGATAATGCGGTGCCATTCAACAGTCACAGAGCCCCACAGCATGGCT  
 TCGTGAGAATGGAGTAAGGAACAGAGATTAGACTCTATTACGCCACGGTAAGTGGTCAGTGTCTCGGGGTGTCGTACCGA

2400

CACGGTAAGTGGTCAGTGTCTC  
 Primer 5

CTTAGTTGGTGTAAACACAGATCAAAAACACAAGGCCACTGCCACATGAAATCTAATTTAACCCCTGAATTCAGGAGGAT  
 GAATCAACCACAATTGTGTCTAGTTTTTGTGTTCCGGTGACGGTGTACTTTAGATTAAATTGGGGACTTAAGTCCTCCTA

2480

TGTGTTGGGGACTTCAGATTCACAAAAATTGTCATGTAACCTATTTTTTTTCTTGTCTTGTGAACTCTGTTCACTTCT  
 ACACAACCCCTGAAGTCTAAGTGTTTTTAACAGTACATTGAATAAAAAAAGGAACAAGAACACTTGAGACAAGTGAAGA

2560

GTTTCATGGAAGATCTTTGCAACGAAACTGCTCCTTGATTTCCGGTTTGTGTATATCCTTACCCCGTCCCCCACCCTT  
 CAAAGTACCTTCTAGAAACGTTGCTTTGACGAGGAACCTAAAGGCCAAACACATATAGGAATGGGGGCAGGGGGGTGGGGA

2640

TCAAAGTTCTCATCTTGTCTCTGTAACATCAGAACCAAAAATAATTCAGTTGCTTTAAATGCCATATGGAATAAATAAAT  
 AGTTTCAAGAGTAGAACAGAGACATTGTAGTCTTGGTTTTTATTAAGTCAACGAAATTTACGGTATACCTTATTTATTTA

2720

BstAPI

GTTTCTAAACAGATCAAATTAATTCCTGTAAAACCTTCTCAGCATTGGTTGCTCTGATTAAATATGGAAGAGGAGCAAA  
 CAAAGATTTGTCTAGTTTAATTTAAGGGACATTTTGAAGAGTCGTAACCAACGAGACTAATTTATACCTTCTCCTCGTTT

2800

PshAI

AGCCACAGCATTGGCGGGCTTATAAAAGAGAAATGAAAAGAATCGGAAAGCAAAAGACTAAAGTCAGTTGGTGAATTGGA  
 TCGGTGTCGTAACCGCCGAATATTTTCTCTTTACTTTTCTTAGCCTTTCGTTTTCTGATTTTCAGTCAACCACTTAACCT

2880

**PvuII**  
**MspA1I**

AAGTGATGTAGTATTGTTATTTTTATAACTTCCCAGATTAAAATAAAAACTACGGGCTTGCAGCTGAAAATTATCCGGTC  
TTCACCTACATCATAACAATAAAAAATATTGAAGGGTCTAATTTTATTTTGTATGCCCGAACGTCGACTTTTAATAGGCCAG

2960

**MmeI**

ATCACAGCCTGGCAGGGTACAAGGGGCACATGTGCTATGTGGTTGGAGAGAGTGGCTATTGGGAGTCCTGCACTACATATG  
TAGTGTCGGACCGTCCCATGTTCCCGTGTACACGATACACCAACCTCTCTCACCGATAACCCCTCAGGACGTGATGTATAC

3040

GAAACAGCTATATTTGGAGGAAAATGCTATCAACCAAATAAAACCCAAGGAACAAATTTTGAGCCAGGAAGCACTGTGTC  
CTTTGTGATATAAACCTCCTTTTACGATAGTTGGTTTATTTTGGGTTCTTGTTTAAAACTCGGTCCTTCGTGACACAG

3120

CCAGGTGTTGAAAGGGAATCAGAAAAAGAGGAAGAAGAGATGGCACTTTCCAGACTAGAGCTCTTTCTGTAACTAAAAT  
GGTCCACAACCTTCCCTTAGTCTTTTTCTCCTTCTCTACCGTGAAAGGTCTGATCTCGAGAAAGACAATTGATTTTA

3200

**MfeI**

ATTTCTTTTAAATATAGGAACCCAGTTTTAAAGGAAGGACAATTGCATTAGGCAGAGGGGCTGCTTCTGAGCAACGCTGT  
TAAAGAAAATTTATATCCTTGGGTCAAAATTTCTTCTGTTAACGTAATCCGTCTCCCCGACGAAGACTCGTTGCGACA

3280

**AccI**

**End** (3301)

CTACCAGGGGTGAAGAAGCAG  
GATGGTCCCCACTTCTTCGTC

3 '

3301

5 '