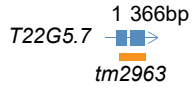
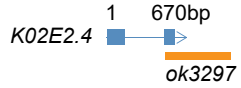
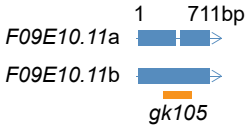



```
WT                gttgtacttctaatggttgtgcccg-------(328bp)--------atattcaataaaccttgtgaatatt
spp-12(tm2963)    gttgtacttctaatggttgtgcccg-TTTCAATAAACCTTGTGAAT-atattcaataaaccttgtgaatatt
                  19                                                                    296
```

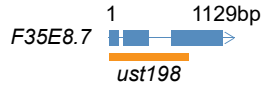



```
WT                ttaagtccaaattttccagagattc-------(658bp)--------aattggaaatttccggcaaatcggc
ins-35(ok3297)    ttaagtccaaattttccagagattc----------------------aattggaaatttccggcaaatcggc
                  548                                                                  1255
```

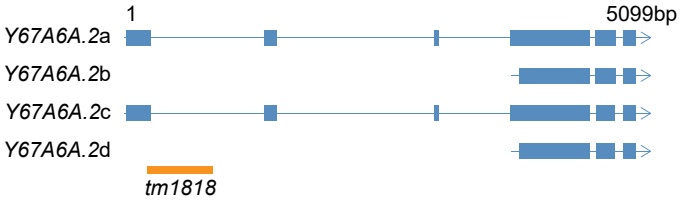
```
WT                ttccttgcactccgtttggatgctt----------------(1500bp)----------------atggtctcgcgataaatgcacgtgg
dao-3(ok1678)     ttccttgcactccgtttggatgctt-CTTAAATTGGGGTTTCTATTATAGATATTTTTTTTTTT-atggtctcgcgataaatgcacgtgg
                  842                                                                                    2391
```



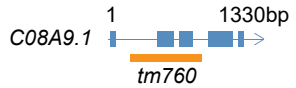

```
WT                tccagaaaacttgaccggctcaacc-------(295bp)--------ttggttgagtcaatgggtaaaacct
tts-1(gk105)      tccagaaaacttgaccggctcaacc----------A-----------ttggttgagtcaatgggtaaaacct
                  213                                                                  557
```




```
WT                CTACCTCTTGCATTTGTAAAAATAA-------(792bp)--------TCAAATTGCAAGACTTTGTCAATGC
F35E8.7(ust198)   CTACCTCTTGCATTTGTAAAAATAA----------------------TCAAATTGCAAGACTTTGTCAATGC
                  -38                                                                  804
```

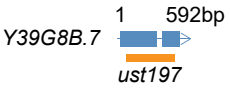



```
WT                acctgtaacaatgcacacatcaaca-------(658bp)--------ctgtaactatatatatatatatatg
nhr-62(tm1818)    acctgtaacaatgcacacatcaaca----------------------ctgtaactatatatatatatatatg
                  198                                                                  905
```




```
WT                taatttttgcaagctccttttaaat-------(715bp)--------gatgtttctttattaacattttcgt
sod-3(tm760)      taatttttgcaagctccttttaaat----------------------gatgtttctttattaacattttcgt
                  171                                                                  935
```

```
WT                gccgaaaattccagacaacaaaccg-------(1402bp)--------cctcgttgaccacgtacgactggtt
asm-2(tm3746)     gccgaaaattccagacaacaaaccg----TGATCATTTTTGAA-----cctcgttgaccacgtacgactggtt
                  1176                                                                 2627
```




```
WT                TTTTCTACGCCGCCCTTGTAACTTC-------(482bp)--------TGCAATAGTTTCGAGAAACTTCTGA
Y39G8B.7(ust197)  TTTTCTACGCCGCCCTTGTAACTTC----------------------TGCAATAGTTTCGAGAAACTTCTGA
                  29                                                                   560
```

Figure7-S1