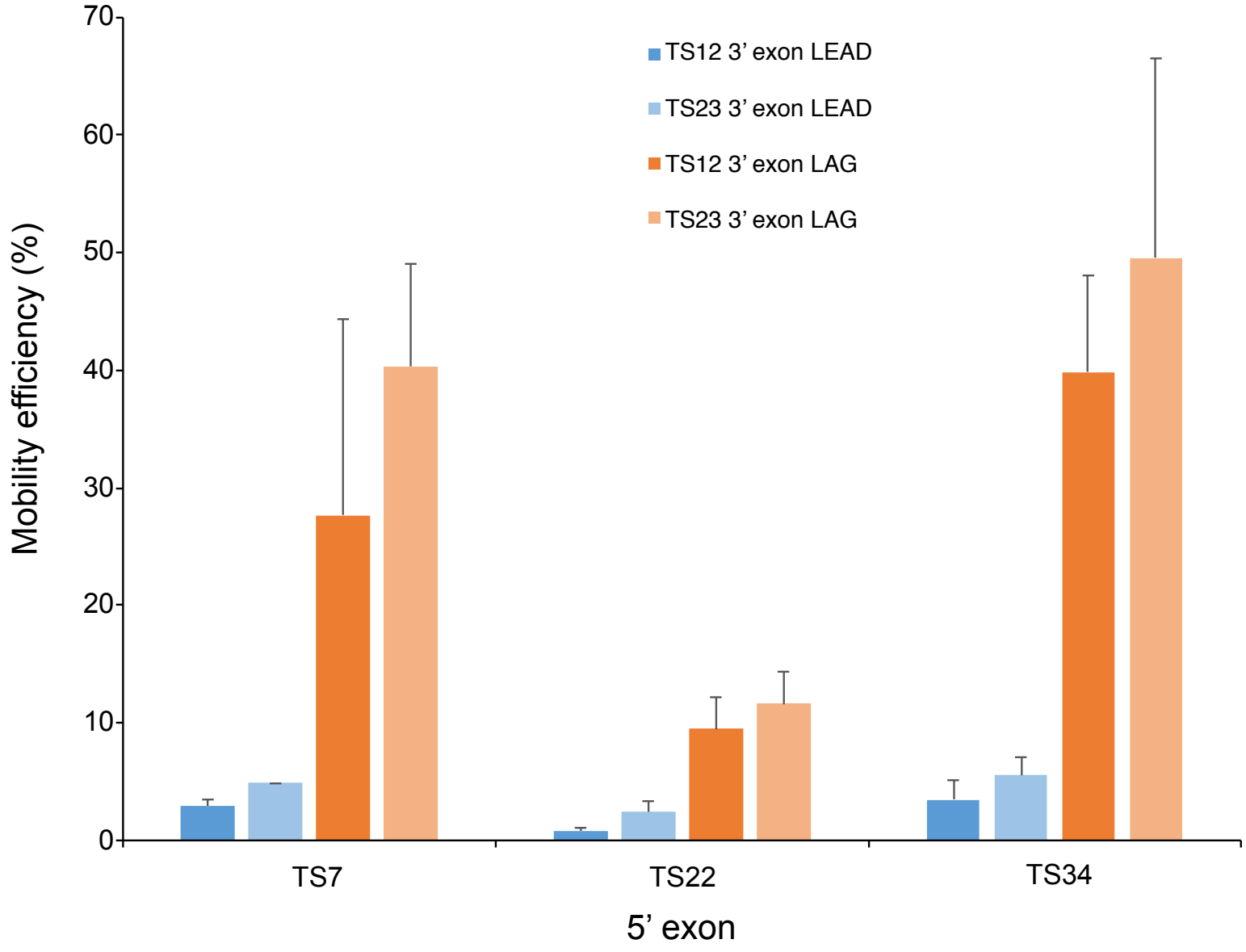
(a)

5' exon IBS1 Intron IBS3 3' exon

```
site 12   ACTACGAAGCGGCGATTGAAGCGGCGAAAGCGGCGAAATAATGAAAAGGCCCCGACCCGTTCGGGGCCTTTTCGT|GTACGCCCGG...CCTACTCGAT|TCGGCGCTTTTCTTGCGGCGCGAGGCGGACGGTCGTACAATATACAGAAGGGACGTTGGCAGAAAGGTGGGGGCGT
site 23   CATTTCTGTCGCCGCTGCGTTAGCGCTCTACGATGTCACCGAGCGGGCGCGCCGCCAGGCCGGCCGACACTACTA|GTACGCCCGG...CCTACTCGAT|TTTATTGCCTGGAGAGAAAAAGGCGTTGTATGAACAATGGATGTGGCAAACGTTAAACCCACGCATTCGTAAACAG
site 7    AGCAAGACGGGTTCGGATTGCTTGAAGAATAACGGCACAAGGCGTCCTGGCAAGCTGCCGGGGCGCCTTTTTCCA|GTACGCCCGG...CCTACTCGAT|TCCGTCCGGCCTGCCAAGGAGAGCGATAAGCCTAAAAAGGACGGCGTGCGGAACGGTCTTGTTCCGTTGTCATCCT
site 22   CGAGTTTGGCTCGTCCGGAAAAGCAGCGCGATGAATCGGCTTCGCGGGCGGCGTTTGGCCGCCGCGCGGCTGCCT|GTACGCCCGG...CCTACTCGAT|TTGCATGTGCAGCGAATAACAAGGAGGGTTCAGCATGAAATTTTTTATCGACACTGCCAACTTGGAAGAAATCAAA
site 34   GGCATTTTTCTTGAAACACTCCACTTTTTCCATCCCTTTTCGCCGTTCGCCCGCGTTGGGCGGACGGTTGTTTCA|GTACGCCCGG...CCTACTCGAT|TTGTCCTGCAACTGCTGAACACTCCCCGCCCTTTATTTTTGTATCATATAGAAAAAACGAGAGCCATCGCTTGGCT
```

AGGU G

Hairpin EBS1 EBS3

(b)