```
human MSSYFVNSTFPVTLASGQESFLGQLPLYSSGYADPLRHYPAPYGPGPGQDKGFATSSYYP 60
mouse MSSYFVNSTFPVTLASGQESFLGQLPLYSSGYADPLRHYPAPYGPGPGQDKGFAASSYYP 60
      ***************************************************:*****

human PAGGGYGRAAPCDYGPAPAFYREKESACALSGADEQPPFHPEPRKSDCAQDKSVFGETEE 120
mouse PAGGGYGRAAPCDYGPAPAFYREKDAACALSGADEPPPFHPEPRKSDCAQDKSVFGETEE 120
      ************************::********* ************************

human QKCSTPVYPWMQRMNSCNSSSFGPSGRRGRQTYTRYQTLELEKEFHYNRYLTRRRRIEIA 180
mouse QKCSTPVYPWMQRMNSCNSSSFGPSGRRGRQTYTRYQTLELEKEFHYNRYLTRRRRIEIA 180
      ************************************************************

human HALCLTERQIKIWFQNRRMKWKKESKLLSASQLSAEEEEEKQAE 224
mouse HALCLTERQIKIWFQNRRMKWKKESKLLSASQLSAEEEEEKPAE 224
      ***************************************** **
```

Figure S1. Sequence alignment of the mouse and human Hoxb6 proteins. The homeodomain (HD) is highlighted in blue, the hexapeptide (HX) in green and the linker region (LR) in orange.* indicates positions which have a conserved residue and : indicates conservation between groups of strongly similar properties.

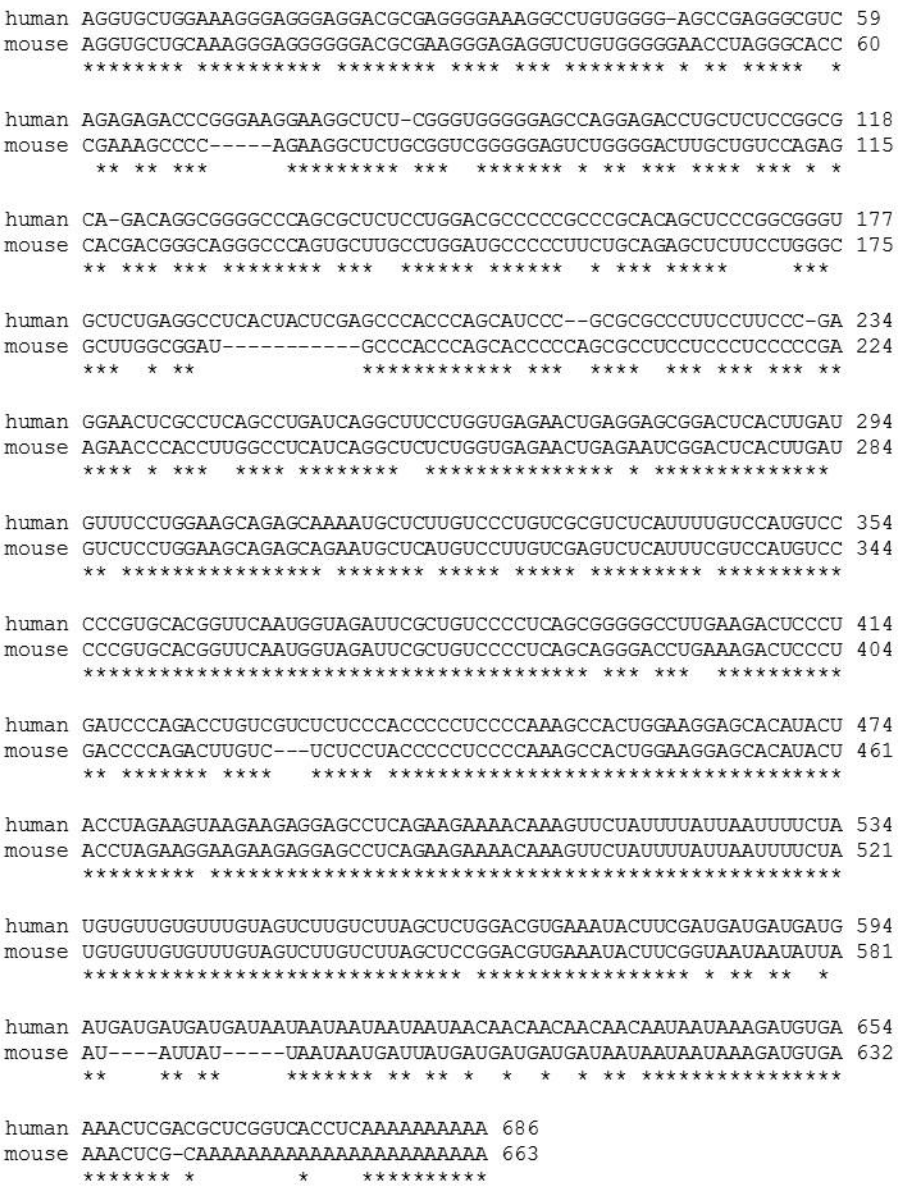

Figure S2. Sequence alignment of the mouse and human 3'UTRs. * indicates positions with conserved nucleotides.