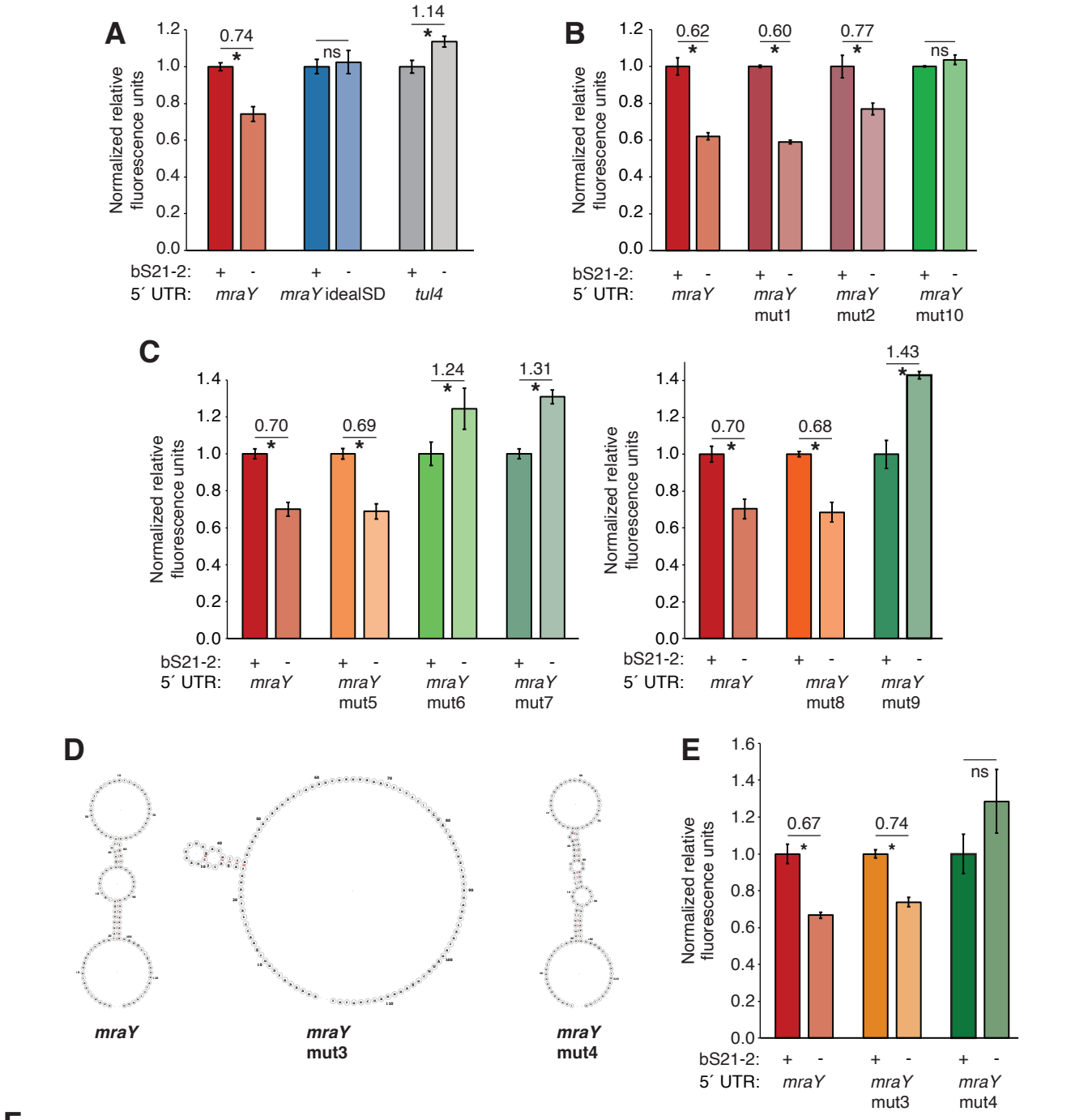

F

Sequences of 5´ UTRs in Panel

```
                -100      -90       -80       -70       -60       -50       -40       -30       -20       -10       -1 +1      +9       +18
A   mraY        auaaaaaauuugaaccaauuauuuagacgcuaauuuugacucuauuaaaaaaauaacauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    ideal_SD    auaaaaaauuugaaccaauuauuuagacgcuaauuuugacucuauuaaaaaaauaacauaucuauuauaauacuccaaggucauuaAGGAGGuuaaauau AUG cugauuuaucuuuuu

B   mraY        auaaaaaauuugaaccaauuauuuagacgcuaauuuugacucuauuaaaaaaauaacauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    mut1        auaaaaaauuugaaccaauuauuuagacgcuaauuuugacucuauuaaaCCCCGCCGauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    mut2        auaaaaaauuugaaccaauuauuuagacgcuaauuuugacucuauuaaaaaaUAUacauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    mut10       ____________________________________________________auaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu

C   mraY        auaaaaaauuugaaccaauuauuuagacgcuaauuuugacucuauuaaaaaaauaacauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    mut5        _____________gacgcuaauuuugacucuauuaaaaaaauaacauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    mut8        _____________GCCGGGGgacucuauuaaaaaaauaacauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    mut9        _____________AGUAGAauuaaaaaaauaacauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    mut7        _____________AGAauuaaaaaaauaacauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    mut6        _____________auuaaaaaaauaacauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu

D, E mraY       auaaaaaauuugaaccaauuauuuagacgcuaauuuugacucuauuaaaaaaauaacauaucuauuauaauacuccaaggucauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    mut3        auaaaaaauuugaaccaauuauuuagacgcuaauuuugacucuauuaaaaaaauaacauaucuauuauaauacuccaCUACUauuaaacauuuuaaauau AUG cugauuuaucuuuuu
    mut4        auaaaaaauuugaaccaauuauuuagacgcuaauuuuAGUGAGauuaaaaaaauaacauaucuauuauaauacuccaCUACUauuaaacauuuuaaauau AUG cugauuuaucuuuuu
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