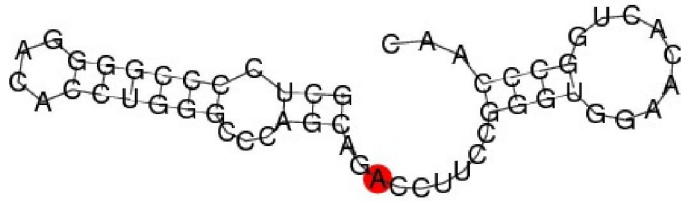


981G>A Q327Q

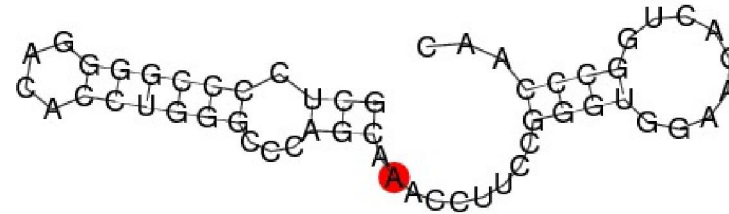
WildUype GCUCCCCGGGGACACCUGGGCCCAGCA**G**ACCUUCCGGGUGGAACACUGGCCCAAC

MuUaUion GCUCCCCGGGGACACCUGGGCCCAGCA**A**ACCUUCCGGGUGGAACACUGGCCCAAC

Wildtype



Mutation



Wild-Uype free energy:-19.0 kcal/mol

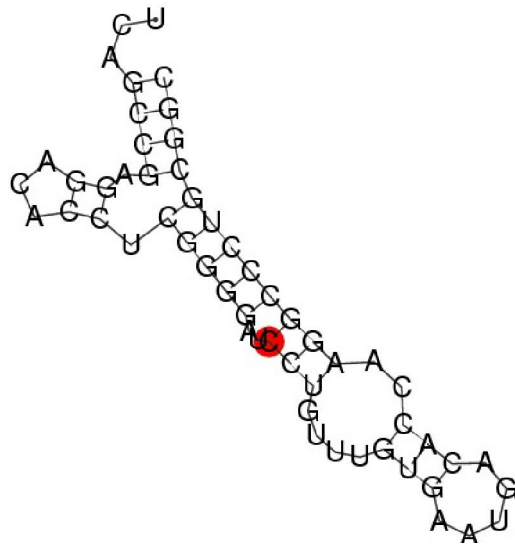
MuUaUion free energy:-19.0 kcal/mol

1393C>U L465L

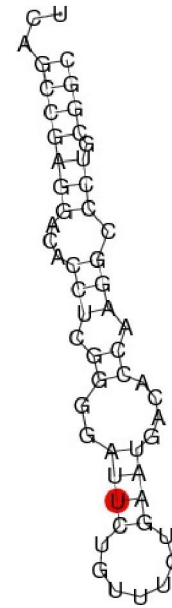
UCAGCCGAGGACACCUCGGGGGAUCCUGUUUGUGAAUGACACCAAGGCCUGCGGC

UCAGCCGAGGACACCUCGGGGGAUUUGUUUGUGAAUGACACCAAGGCCUGCGGC

Wildtype



Mutation



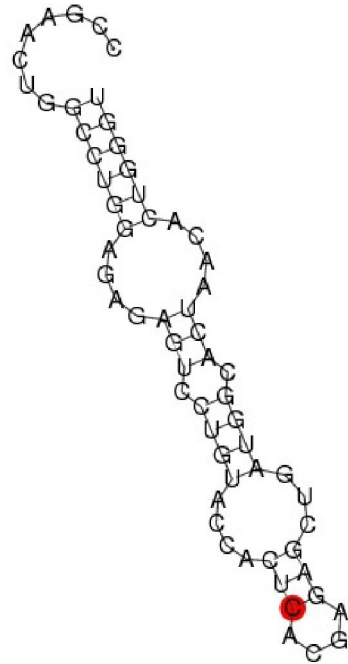
Wild-type free energy:-16.1 kcal/mol

Mutant free energy:-14.5 kcal/mol

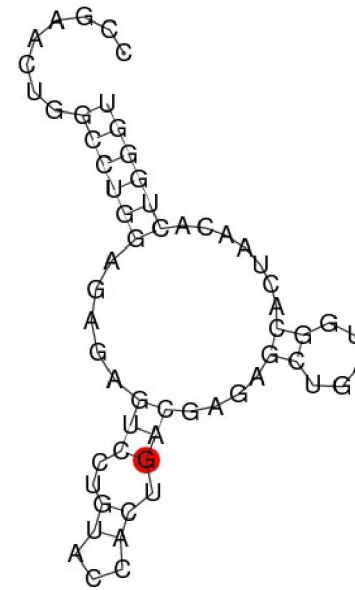
3231 C>G L1077L

CCGAACUGGCCUGGAGAGAGUCCUGUACCACUCACGAGAGCUGAUGGCACUAACACUGGGU
CCGAACUGGCCUGGAGAGAGUCCUGUACCACUGACGAGAGCUGAUGGCACUAACACUGGGU

Wildtype



Mutation



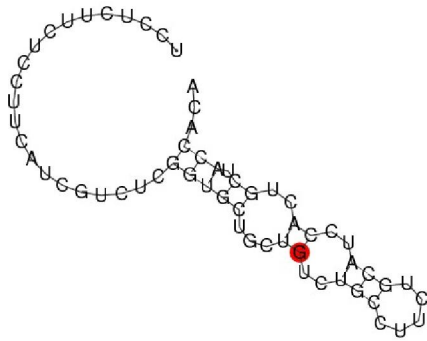
Wild-type free energy:-12.2 kcal/mol

Mutant free energy:-9.3 kcal/mol

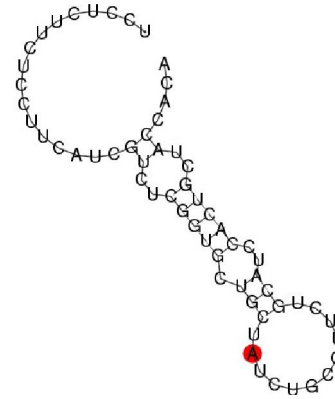
1953 G>A L651L

UCCUCUUCUCCUUCAUCGUCUCGGUGCUGCU**G**UCUGCCUUCUGCAUCCACUGCUACCACA
UCCUCUUCUCCUUCAUCGUCUCGGUGCUGCU**A**UCUGCCUUCUGCAUCCACUGCUACCACA

Wildtype



Mutation



Wild-type free energy:

-9.1 kcal/mol

Mutation free energy:

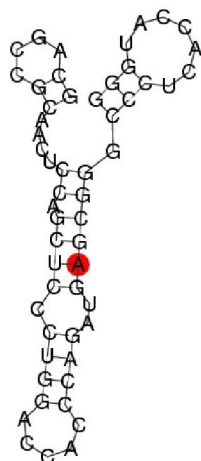
-7.6 kcal/mol

2523 G>A P841P

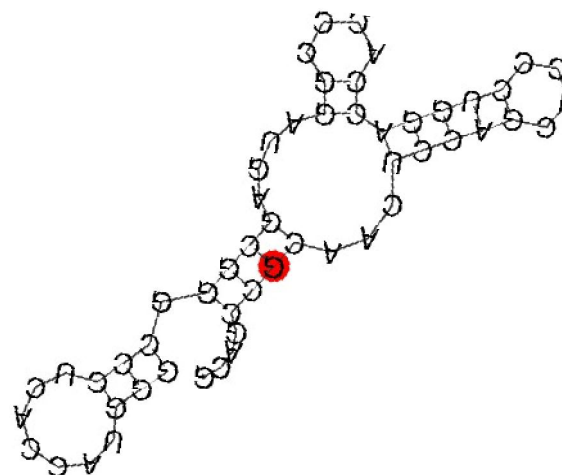
GCAGCCGCAACUCCAGCUCCCUGGACCACCCGGAUGAGCGGGCCCUCACCAUGGG

GCAGCCGCAACUCCAGCUCCCUGGACCACCCAAGAUGAGCGGGCCCUCACCAUGGG

Wildtype



Mutation



Wild-type free energy: -15.5 kcal/mo

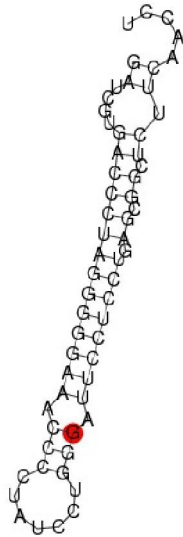
Mutation free energy: -16.1kcal/mol

2862 G>A G954G

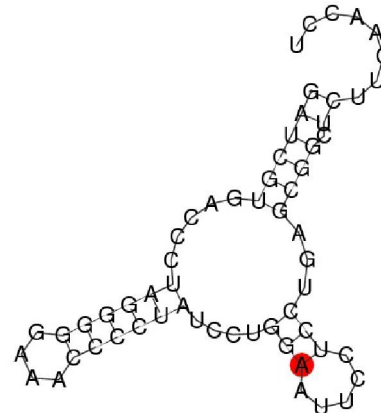
GAUCGUGACCCUAGGGGGAAACCCCUAUCCUGGGAUUCCUCCUGAGCGGCUCUUCAACCU

GAUCGUGACCCUAGGGGGAAACCCCUAUCCUGGAUUCCUCCUGAGCGGCUCUUCAACCU

Wildtype



Mutation



Wild-type free energy:

-20.76 kcal/mol

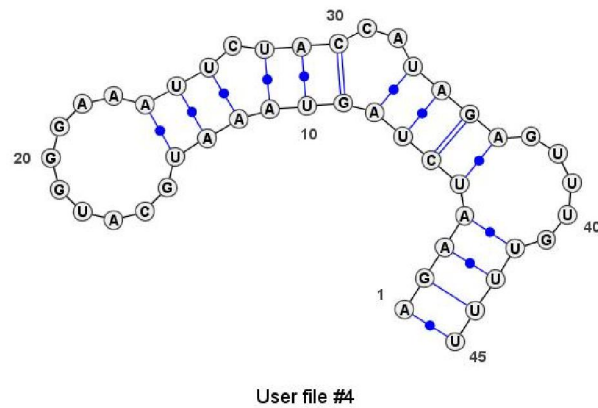
Mutation free energy:

-18.6 kcal/mol

3185 A>G Y1062C

AGAAUCUAGUAAUGCAUGGGAAAUUCUACCAUAGAGUUUGUUUU
AGAAUCUAGUAAUGCAUGGGAAAUUCUACCAUAGAGUUUGUUUU

Evofold functional RNA substructure



Wild-type free energy:

-4.4 kcal/mol

Mutation free energy:

-4.1kcal/mol

RNA substructure altered by mutation

