>NH5

AUGCAUAAGGCUCGUAUAAUAUAUUCCACUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAAGCCGUUUUUUCGGCUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>P4A\_C-1A

AUGCAUAAGGCUCGUAUAAUAUAUUCCAAUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAAGCCGUUUUUUCGGCUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

PROPOSED CYCLE: HOW DOES 1 AU BP CHANGE FUNCTION AND WHICH POSITION SHOULD IT BE IN? AE LIBRARY

>MAKE L4 PROX BP AU NOU GC-DID NOU FIND IN SCREEN

AUGCAUAAGGCUCGUAUAAUAUAUUCCAAUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAAGACGUUUUUUCGUCUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>MAKE L4 DISU BP AU NOU GC

AUGCAUAAGGCUCGUAUAAUAUAUUCCAAUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAAUCCGUUUUUUCGGAUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>BOUH BPS AU R3AE6C4 (FI 6 FOLD NH5)

AUGCAUAAGGCUCGUAUAAUAUAUUCCAAUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAAUACGUUUUUUCGUAUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>NH5

AUGCAUAAGGCUCGUAUAAUAUAUUCCACUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAAGCCGUUUUUUCGGCUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

PROPOSED CYCLE: HOW DOES INVERTING THE GC PAIRING AND DESTABILIZING P4 CHANGE FUNCTION AND WHICH PART IS MORE IMPORTANT? P1 EXCHANGE LIB

>INVERT CG PAIRS

AUGCAUAAGGCUCGUAUAAUAUAUUCCACUU**C**UAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUA**G**AAGCCGUUUUUUCGGCUU**C**UAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>CHANGE AU TO CG AND AU TO GU

AUGCAUAAGGCUCGUAUAAUAUAUUCCACU**C**GUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUAC**G**AGCCGUUUUUUCGGCUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>NH5

AUGCAUAAGGCUCGUAUAAUAUAUUCCACUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAAGCCGUUUUUUCGGCUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>INVERT PROX PAIR\_R8N’2B3

AUGCAUAAGGCUCGUAUAAUAUAUUCCACUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAAGC**G**GUUUUUUC**C**GCUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

PROPOSED CYCLE: HOW DOES INVERTING THE PAIRS CHANGE FUNCTON? HOW DOES ADDING A CC PAIR DISTAL TO L4 CHANGE FUNCTION? P4 STEM LIB

>ONLY CHANGE DIST PAIR TO CC

AUGCAUAAGGCUCGUAUAAUAUAUUCCACUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAA**C**CCGUUUUUUCGGCUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>CHANGE DIST PAIR TO CC AND INVERT MIDDLE PAIR

AUGCAUAAGGCUCGUAUAAUAUAUUCCACUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAA**CG**CGUUUUUUCG**C**CUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>CHANGE DIST PAIR TO CC AND INVERT PROX PAIR

AUGCAUAAGGCUCGUAUAAUAUAUUCCACUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAA**C**C**G**GUUUUUUC**C**GCUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>INVERT MIDDLE PAIR

AUGCAUAAGGCUCGUAUAAUAUAUUCCACUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAAG**G**CGUUUUUUCG**C**CUUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU

>INVERT DIST PAIR

AUGCAUAAGGCUCGUAUAAUAUAUUCCACUUGUAUAACCUCAAUAAUAUGGUUUGAGGGUGUCUACCAGGAACCGUAAAAUCCUGAUUACAA**C**CCGUUUUUUCGG**G**UUGUAAUCAGGAUUUUUUUUAUUUACUAGUACAUUUAAGUAAAGGAGUUUGUUAUGACCAUGAUUACGCCAAGCUU