

## Supplementary Materials

**Table S1: The sequencing analysis of the RNA R8 aptamer pool.**

**GROUP 1 [7/26] [26.9 %]**

R8-su08	CAUACUGAGUAAGAUCGGAAAUUUCGGUGUAAGGCCACGG
R8-su11	CAUACUGAGUAAGAUCGGAAAUUUCGGUGUAAGGCCACGG
R8-su12	CAUACUGAGUAAGAUCGGAAAUUUCGGUGUAAGGCCACGG
R8-su13	CAUACUGAGUAAGAUCGGAAAUUUCGGUGUAAGGCCACGG
R8-su027	CAUACUGAGUAAGAUCGGAAAUUUCGGUGUAAGGCCACGG
R8-su101	CAUACUGAGUAAGAUCGGAAAUUUCGGUGUAAGGCCACGG
R8-su215	CAUACUGAGUAAGAUCGGAAAUUUCGGUGUAAGGCCACGG

**GROUP 2 [2/26] [7.7 %]**

R8-su061	UGGAUGUAUGGAACUUGCAGAUUUAAACUGCACGAAGCGU
R8-su057	UGGAUGUAUGGAACUUGCAGAUUUAAACUGCACGAAGCGU

**Group 3 [4/26] [15.4 %]**

R8-su15	ACACGUUGCUGAAACAUAACCGAGUAACAUAAGCGGGUG
R8-su16	ACACGUUGCUGAAACAUAACCGAGUAACAUAAGCGGGUG
R8-su007	ACACGUUGCUGAAACAUAACCGAGUAACAUAAGCGGGUG
R8-su011	ACACGUUGCUGAAACAUAACCGAGUAACAUAAGCGGGUG

**UNGROUPED [13/26] [50 %]**

R8-su014	AAAUAGACUAUUCGGUGUAGUAGCCAGUAGAGACAUGAG
R8-su037	AAAUCAAGGGAAGAAGCCACAGUUUUUAUGCCAUCGGGGA
R8-su147	AAAUACCGAUUUCGUGCCACAUAUCUGAGAAACACUGUCGG
R8-su137	AUAUCGAGAUUCUUGUACUUGUGAUUAUGGUGUUAUGGGGUG
R8-su024	CAUACUGAGAAAGAUCGGUCAAGAGUAGUGGAAUUCUGCC
R8-su073	CAUAUGGGACCGACCAUUUUACAUAUGAUAAAGCUGUACGGU
R8-su209	CCACGUGAAGGAGAAAGUAACAAGGUUGUUUGUGUCGCUG
R8-su068	GUUAGUCGGUUUCUAAACAAAACGAUGUUUGAGAGGUGGCC
R8-su012	UAUGUGUACAUGCACUAUUAAACCGUACUGAUAUUCGUGUU
R8-su36	UAUUGGGUUGAUCUACAUAUGAGGUGUGACGUCGUGGAAGG
R8-su025	UUAACUGUGCAGAUUCAGUUAUUGUAGUAGAUGCCACCGG
R8-su031	UGAAACAUAACGGAGAAACAUUUUGGAGUUGAAGGUCGAUU
R8-su164	UCGGUAAUACGCCAUGUUCUUCGCUAGGAACACUAAGGG