

Supplementary Data

SUPPLEMENTARY TABLE S1. ANNOTATION OF BIVALENT APTAMER SEQUENCES SHOWING MODIFICATIONS BETWEEN DIFFERENT BIVALENT SPECIES

<i>Name</i>	<i>Sequence 5'-3'</i>	<i>Length (nt)</i>
R9D-14t	GGCGGUCGAUCACACAGUUCAAAACGUAAUAAGCCAAUGUACGAGGC AGACGACUCGCC	58
11F7t	GAGAGCCCCAGCGAGAUAAUACUUGGCCCCGCUCUU	36
RNA _{BA} 1	<u>GGGGCGGUCGAUCACACAGUUCAAAACGUAAUAAGCCAAUGUACGAGGCA</u> <u>GACGACUCGCCCCAAAACGUAGAGAGCCCCAGCGAGAUAAUACUUG</u> <u>GCCCCGCUCUUACGU</u>	111
RNA _{BA} 2	<i>GGCGGUCGAUCACACAGUUCAAAACGUAAUAAGCCAAUGUACGAGGCAGAC</i> <i>GACUCGCCAAAAGAGAGCCCCAGCGAGAUAAUACUUGGCCCCGCUCUU</i>	97
RNA _{BA} 3	<i>GGGUCGAUCACACAGUUCAAAACGUAAUAAGCCAAUGUACGAGGCAGAC</i> <i>GACUCCAAAAGCCCCAGCGAGAUAAUACUUGGCCCCGCU</i>	87
RNA _{BA} 4	<i>GGUCGAUCACACAGUUCAAAACGUAAUAAGCCAAUGUACGAGGCAGACGA</i> <i>CAAAGCCCCAGCGAGAUAAUACUUGGCCCCGCU</i>	82
RNA _{BA} 4m	<u>GGGGAUCACACAGUUCAAAACGUAAUAAGCCAAUGUACGAGGCAGA</u> <u>CCCCAAAAGCCCCAGCGAGAUAAUACUUGGCCCCGCU</u>	81

Pyrimidines (C/U) are 2'-fluoro modified, and the purines (G/A) contain 2'OH.

Italics indicate parent aptamer sequence.

Underline indicates elongation/alteration of nucleotides.

Bold indicates adenosine flexible linker between aptamers.

Red color indicates nucleotides removed near this sequence.