

Table S1. Full length aptamer and extended hammerhead ribozyme sequences cloned into aptamer expression cassettes.

	Aptamer 5'Constant Region ^a	Sequence	Aptamer 3'Constant Region ^a
70.03 ^{b,c}	GAATTC gggaaaagcgaatcatacacaaga	AGATGAATCACAGCCGCTCAACGAGAT <u>TGCGAAGG</u> AAAA <u>ACG</u> <u>GGATAACC</u> AAUAGATGGAACGAAGACC	gggcataaggtatttaattccata GGATCC
70.05 ^{b,c}	GAATTC gggaaaagcgaatcatacacaaga	<u>TCCGAGGCAGAACGGG</u> AAAAT <u>CTGCG</u> GAAGTAACTGTGGAA TCCGTGACCTTTGACGTGAAAACCGCGA	gggcataaggtatttaattccata GGATCC
70.08 ^{b,c}	GAATTC gggaaaagcgaatcatacacaaga	CGAGACAAGTACCGAAAAAGAGAT <u>TCTGGCAGTGT</u> ACAAC <u>CAG</u> AAAA <u>GACAC</u> GACGAACACGCCGCAC	gggcataaggtatttaattccata GGATCC
70.15 ^{b,c}	GAATTC gggaaaagcgaatcatacacaaga	TCACCTGAAAGACGCAGACCTACGA <u>ACCCAGGAGATAAGG</u> <u>GGG</u> AAAA <u>CTCT</u> GGAAAACCAACCGGTAGTC	gggcataaggtatttaattccata GGATCC
70.26 ^{b,c}	GAATTC gggaaaagcgaatcatacacaaga	TGCTAAACCAAGTAAGAAT <u>TCCGTGAAGT</u> CACAGCAC <u>CGGGA</u> TAA <u>ACT</u> GTGTCAAACGCCATAGCT	gggcataaggtatttaattccata GGATCC
80.77 ^{b,c}	GAATTC gggcataaggtatttaattccata	CTCACGCT <u>TGACAAC</u> CACA <u>GGGGA</u> CAGAGCTAA <u>GTTGTT</u> <u>A</u> TCCCTTNGCAACACCGACATTGCCGAGCGATGGTTATCA	ttgattcggatgctccggtagctcaacctg GGATCC
80.80 ^{b,c}	GAATTC gggcataaggtatttaattccata	UGCAGTTGTACAAT <u>TCCG</u> TTTT <u>CTGTGTT</u> <u>CGGG</u> ACAAA <u>ACA</u> <u>CAG</u> CAACATAGTAGCTATCGCTCAACCGGACATGCAAGA	ttgattcggatgctccggtagctcaacctg GGATCC
Arbitrary Luc Fragment ^c	GAATTC gggaaaagcgaatcatacacaaga	AATTTGGACTTTCGCCCTTCTTGGCCTTTATGAGGATCTCT CTGATTTTTCTTGCCTCGAGTTTTCCGG	gggcataaggtatttaattccata
5'Active HHRz ^{c,d}	N/A	GCTAGCGGATTAACAAG<i>CT</i> GATGAGTCGCTGGGATGCGA CGAAACGCCTTCGGGCGTCCTTGTATCT <i>GAATTC</i>	N/A
5'Inactive HHRz ^{c,d}	N/A	GCTAGCGGATTAACAAG <i>GAA</i> TGAGTCGCTGGGATGCGA CGAAACGCCTTCGGGCGTCCTTGTATCT <i>GAATTC</i>	N/A
3'Active HHRz ^{c,d}	N/A	GGATCCT GTACGGATTGTGCTTATCCGT <i>CT</i> GATGAGTCCG TGAGGACGAAACAG <i>CGGCCG</i>	N/A
3'Inactive HHRz ^{c,d}	N/A	GGATCCT GTACGGATTGTGCTTATCCGT <i>GAA</i> TGAGTCCG TGAGGACGAAACAG <i>CGGCCG</i>	N/A
Empty Cassette ^e	GCTAGCGGATTAACAAG<i>CT</i> GATGAGTCGCTGGGATGCGACGAAACGCCTTCGGGCGTCCTTGTATCT <i>GAATTC</i> <i>CT</i> GAT GAGTCCGTGAGGACGAAACAG <i>CGGCCG</i>		

^aLower case nucleotide regions were held constant during the original replicative selection

^bPseudoknot structures are indicated by bolding and underlining. Stem 1 is underlined once. Stem 2 is underlined twice.

^cRestriction enzyme sites present in 5' and 3' HHRz for cloning purposes are bolded.

^dSites for HHRz modification to "active" or "inactive" forms are bolded and italicized.

^eFull sequence of a representative empty cassette construct with center merged cloning site (GAATTC).