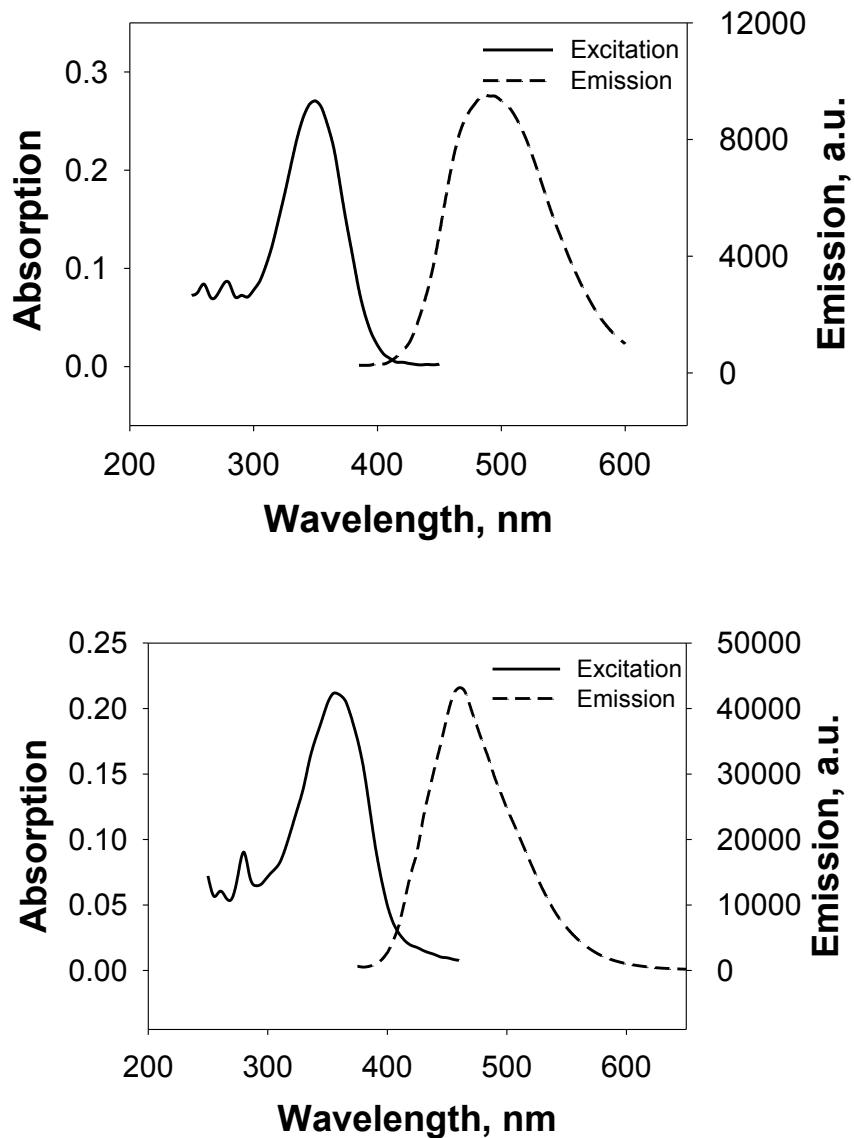
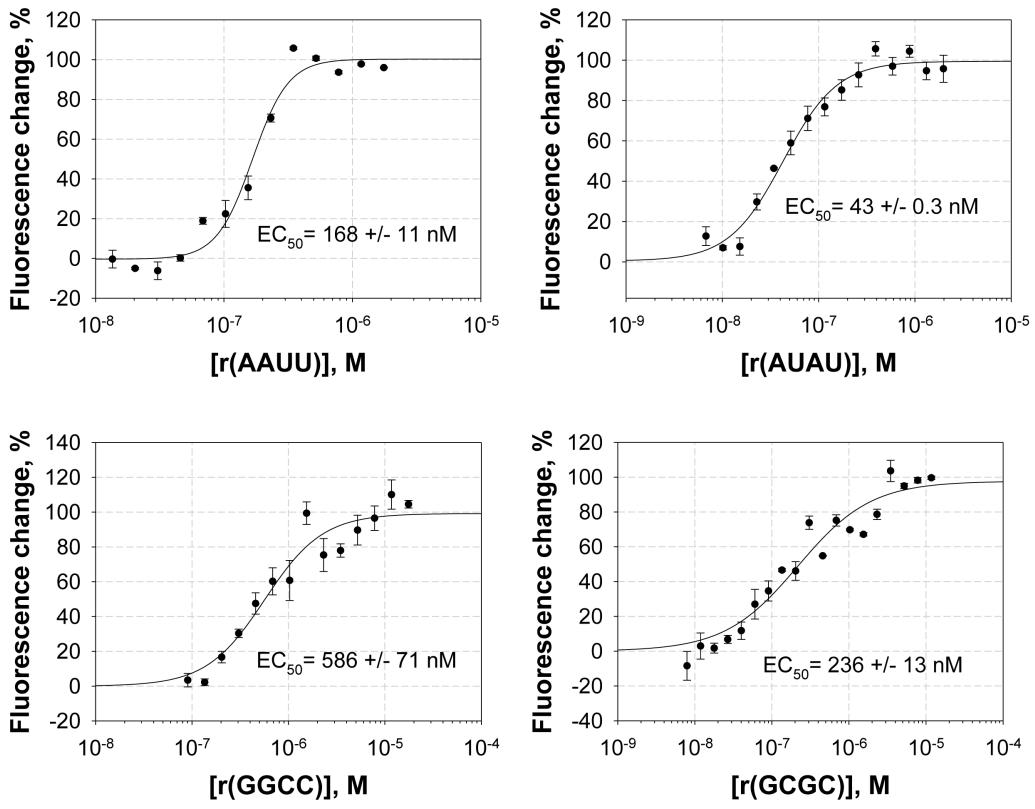


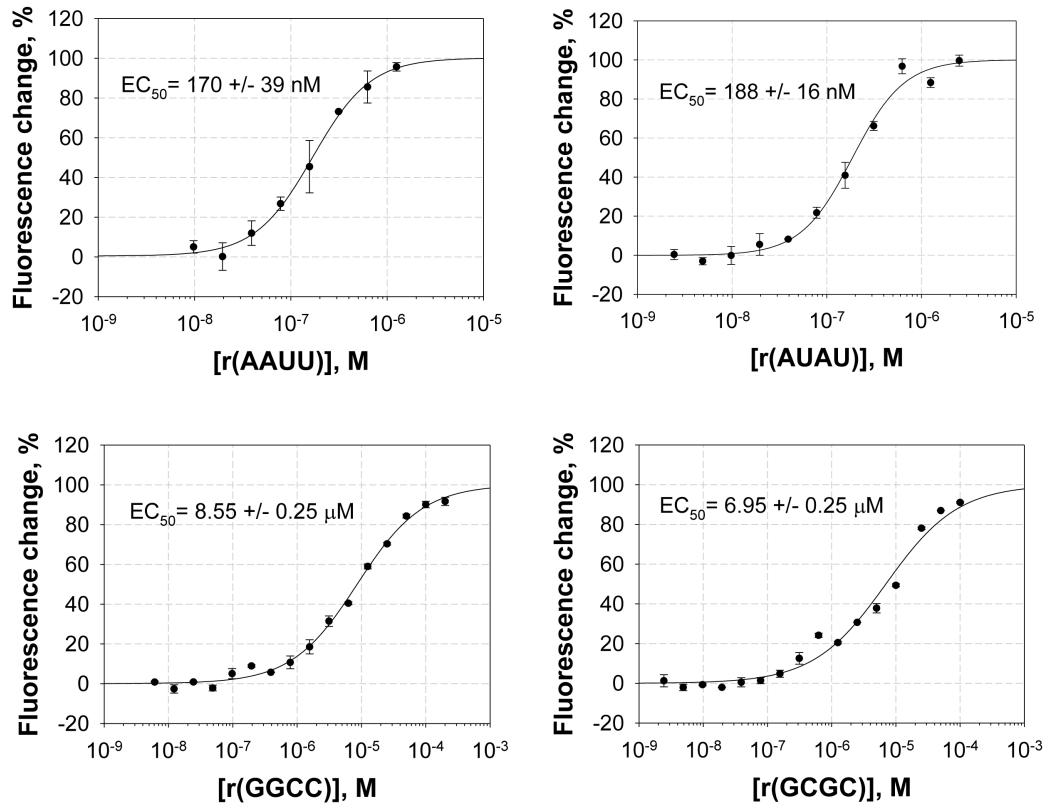
## Supplementary Figures



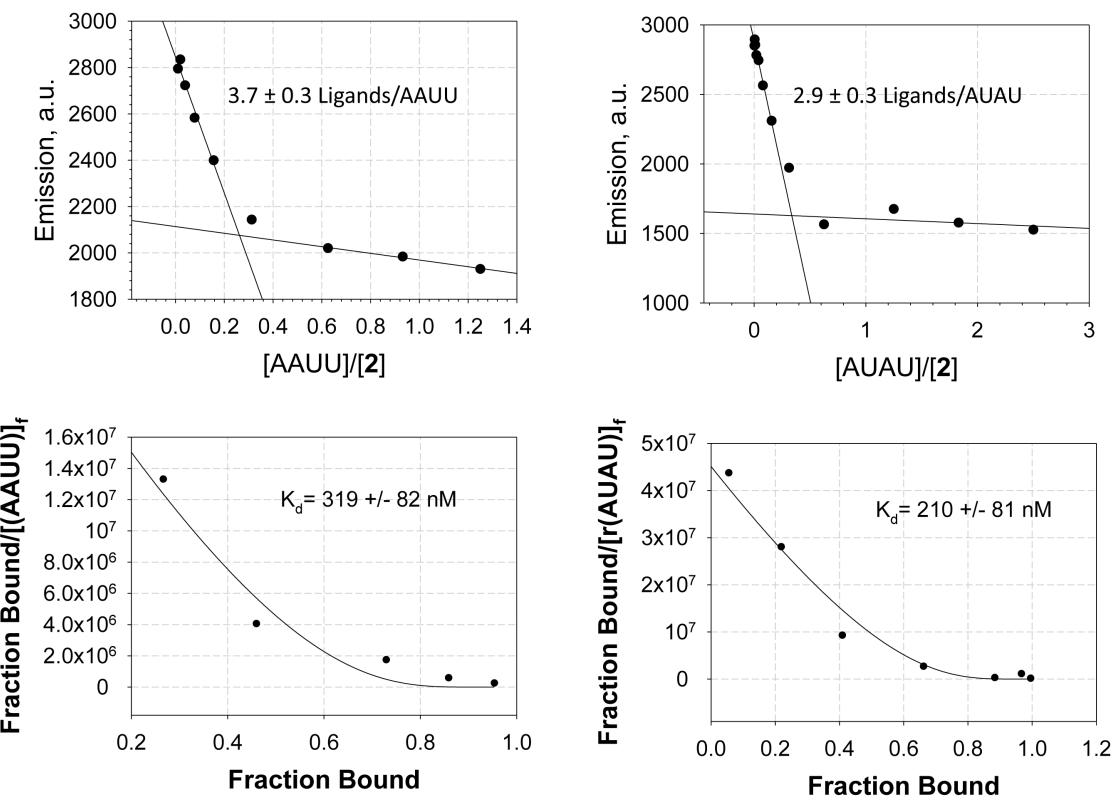
**Supplementary Figure 1.** Excitation and emission spectra of compound **1** (top) and **2** (bottom).



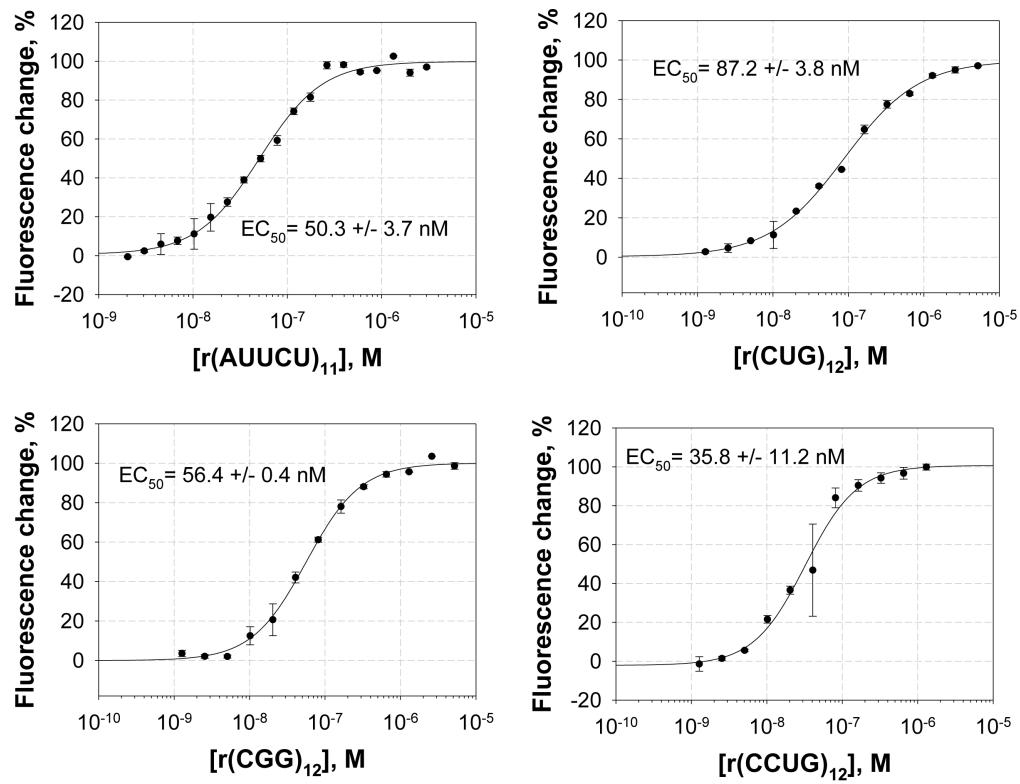
**Supplementary Figure 2.** Representative binding curves for compound **1** and r(AAUU), r(AUAU), r(GGCC) or r(GCGC) stretches ( $[1] = 3 \mu\text{M}$ ).



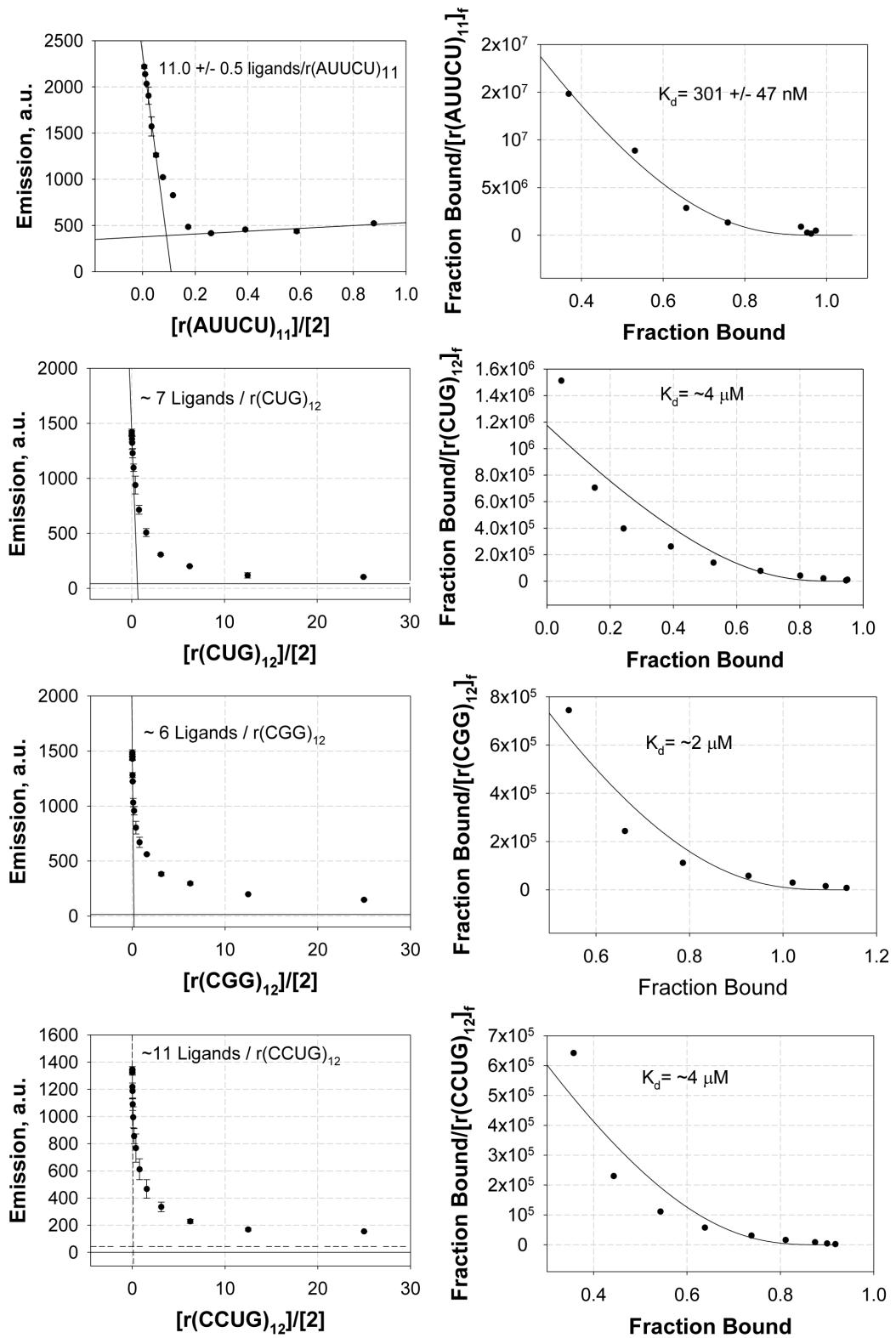
**Supplementary Figure 3.** Representative binding curves for compound **2** and r(AAUU), r(AUAU), r(GGCC) or r(GCGC) stretches ( $[2] = 1 \mu\text{M}$ ).



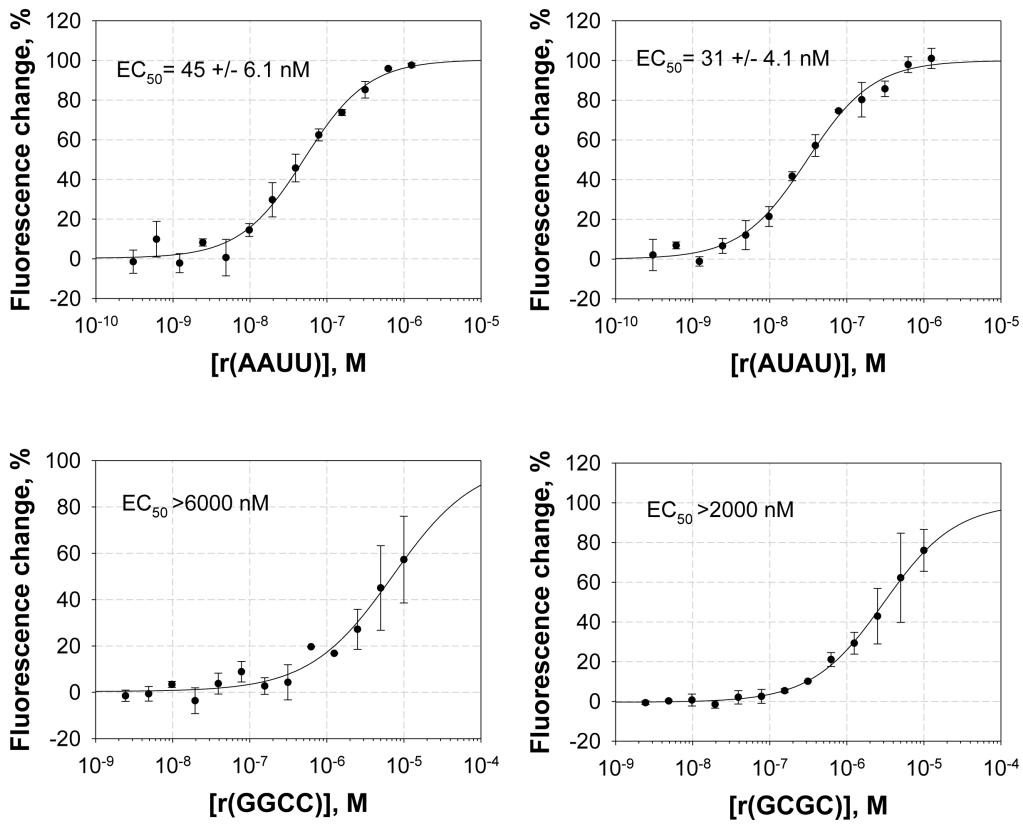
**Supplementary Figure 4.** Stoichiometries and  $K_d$ s for compound **2** binding to r(AAUU) and r(AUAU) stretches.

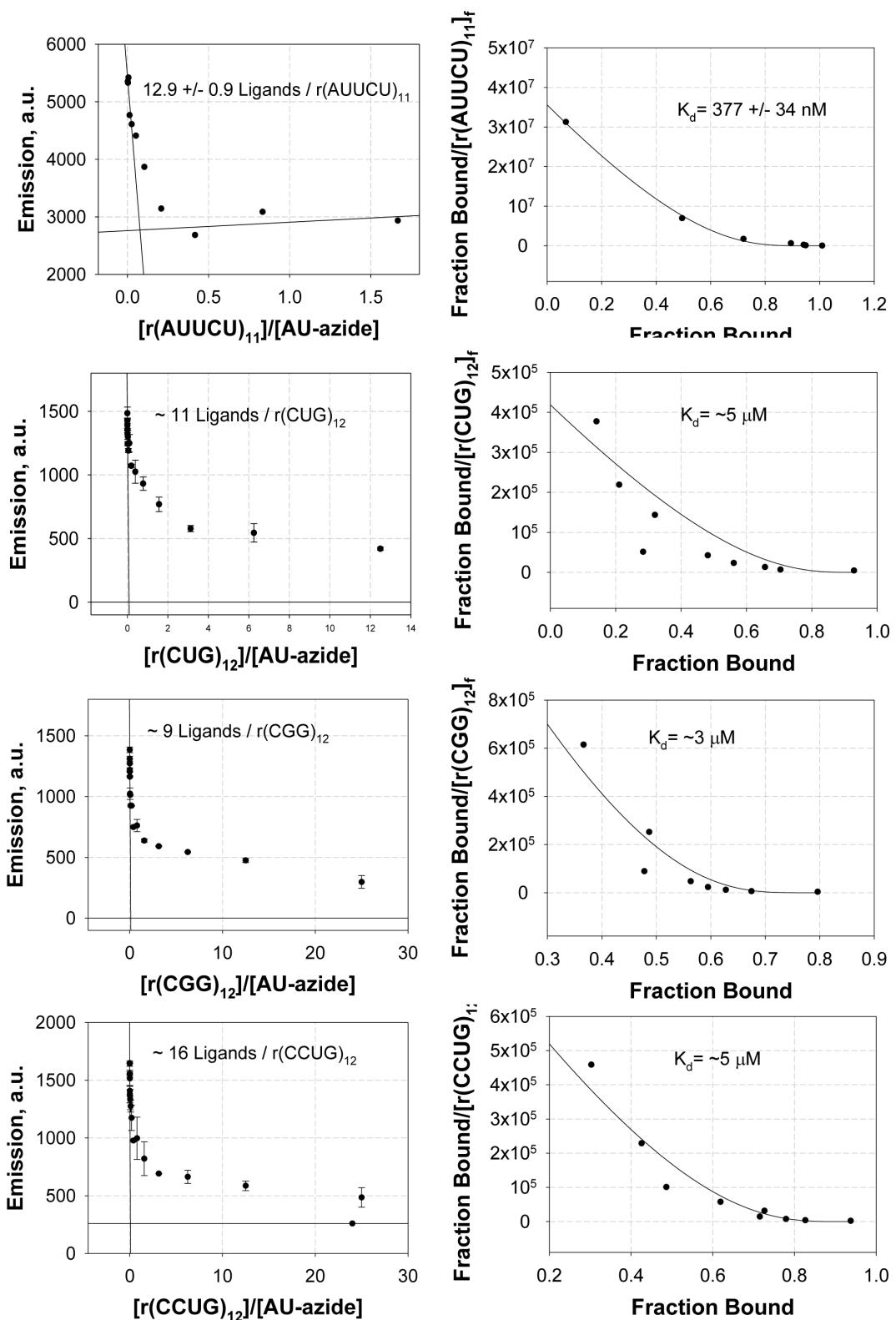


**Supplementary Figure 5.** Representative binding curves for compound **1** and r(AUUCU)<sub>11</sub>, r(CUG)<sub>12</sub>, r(CGG)<sub>12</sub> and r(CCUG)<sub>12</sub> ([**1**]= 3  $\mu$ M).

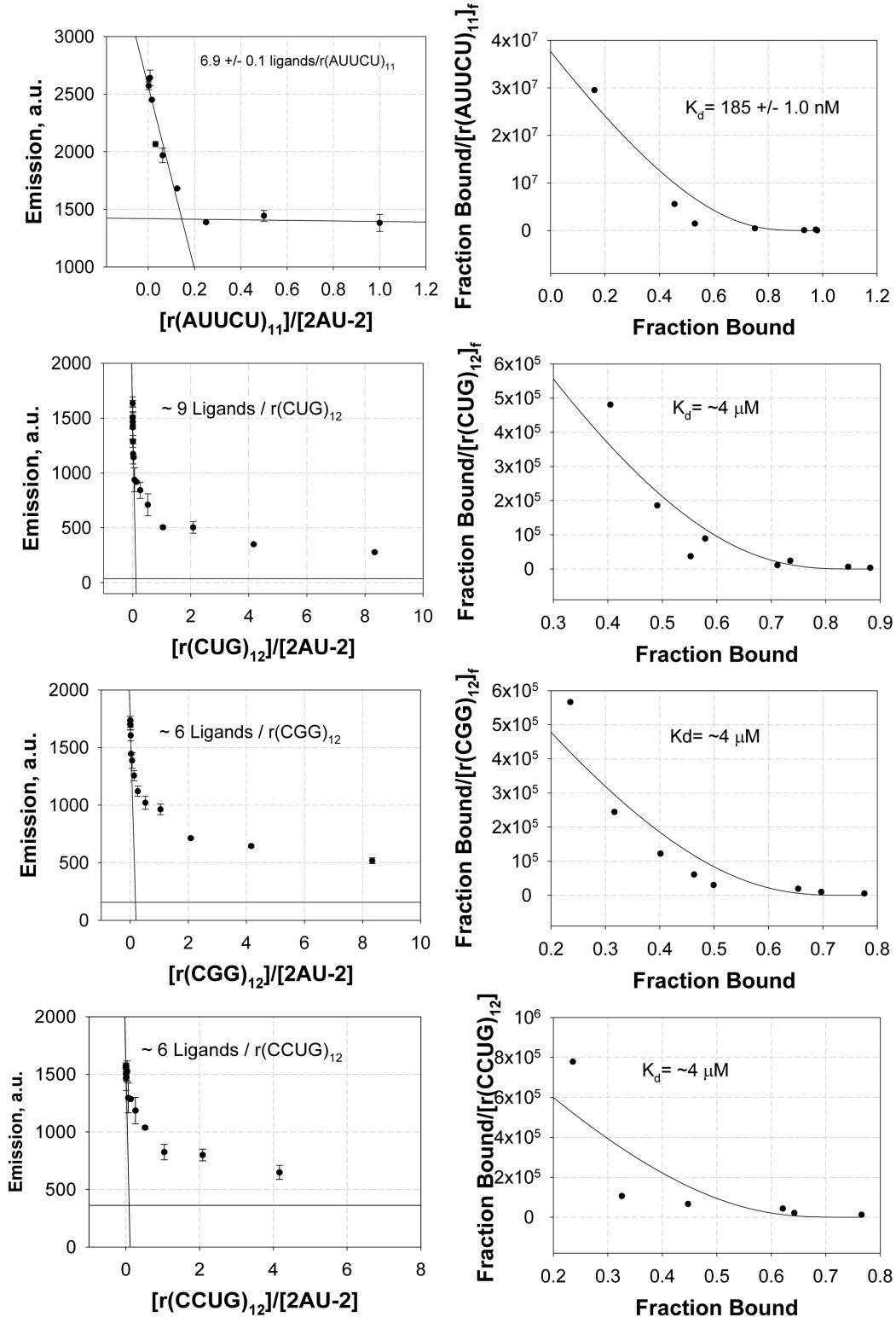


**Supplementary Figure 6.** Binding data (stoichiometries and  $K_d$ s) for **2** binding to r(AUUCU)<sub>11</sub>, r(CUG)<sub>12</sub>, r(CGG)<sub>12</sub> and r(CCUG)<sub>12</sub> ( $[2] = 1 \mu\text{M}$ ).

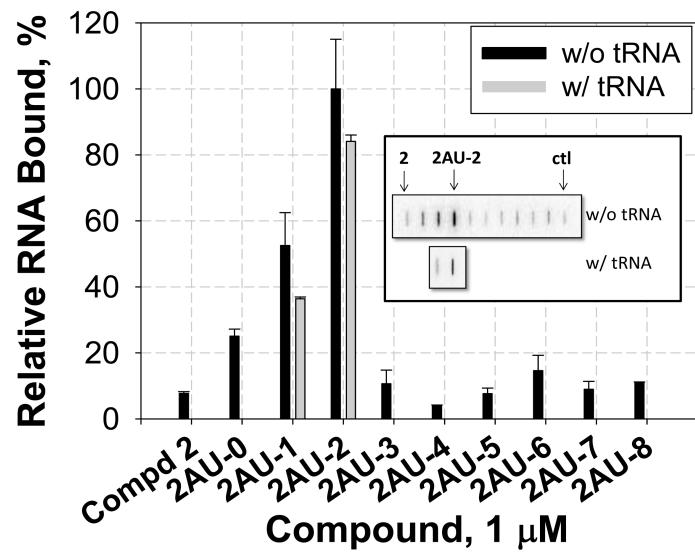




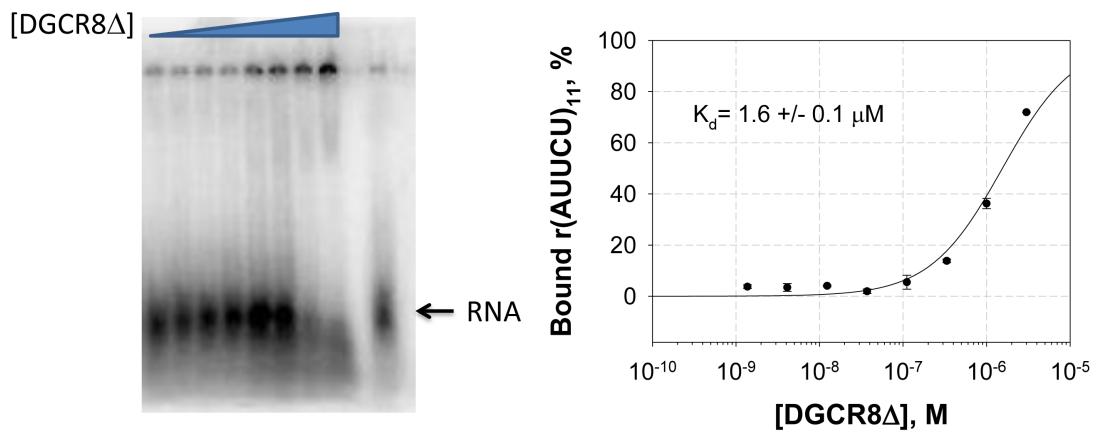
**Supplementary Figure 8.** Binding data (stoichiometry and  $K_d$ ) for **AU-azide** binding to r(AUUCU)<sub>11</sub>, r(CUG)<sub>12</sub>, r(CGG)<sub>12</sub> and r(CCUG)<sub>12</sub> ([AU-azide] = 1  $\mu\text{M}$ ).



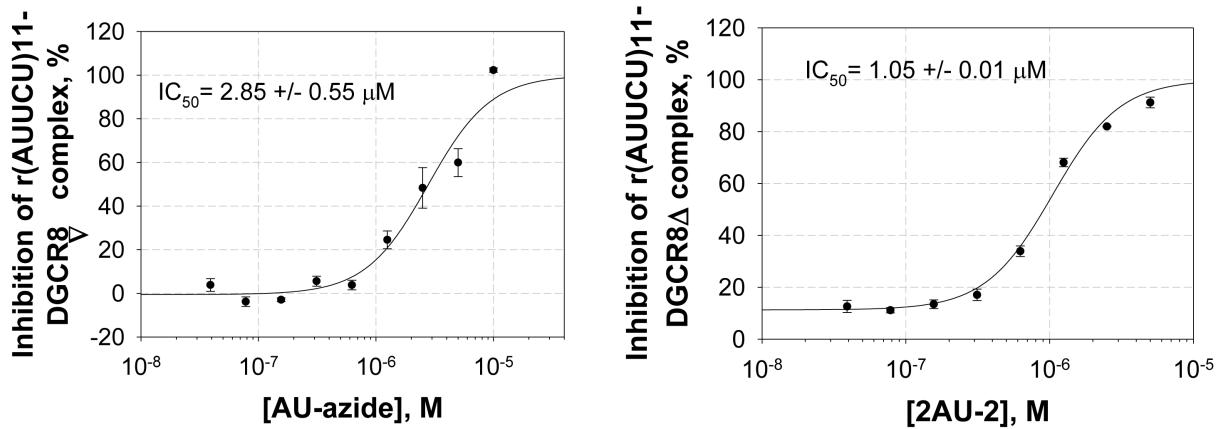
**Supplementary Figure 9.** Binding data (stoichiometries and  $K_d$ s) for compound **2AU-2** binding to  $r(\text{AUUCU})_{11}$ ,  $r(\text{CUG})_{12}$ ,  $r(\text{CGG})_{12}$  and  $r(\text{CCUG})_{12}$  ( $[2\text{AU-2}] = 3 \mu\text{M}$ ).



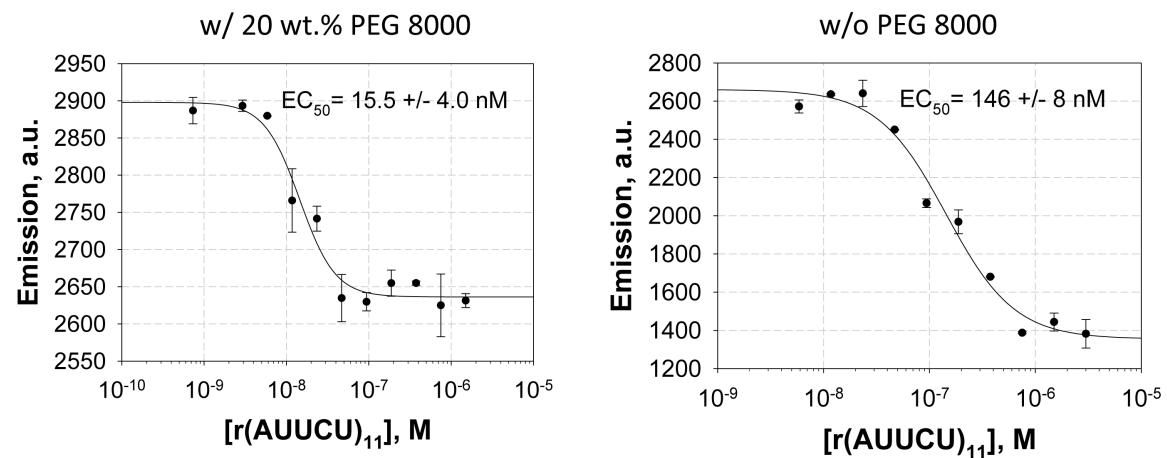
**Supplementary Figure 10.** Quantification of the filter binding assay results for screening dimeric compounds and images of nitrocellulose membranes (inset). Where indicated, 35-fold molar excess of tRNA was used (gray bars).



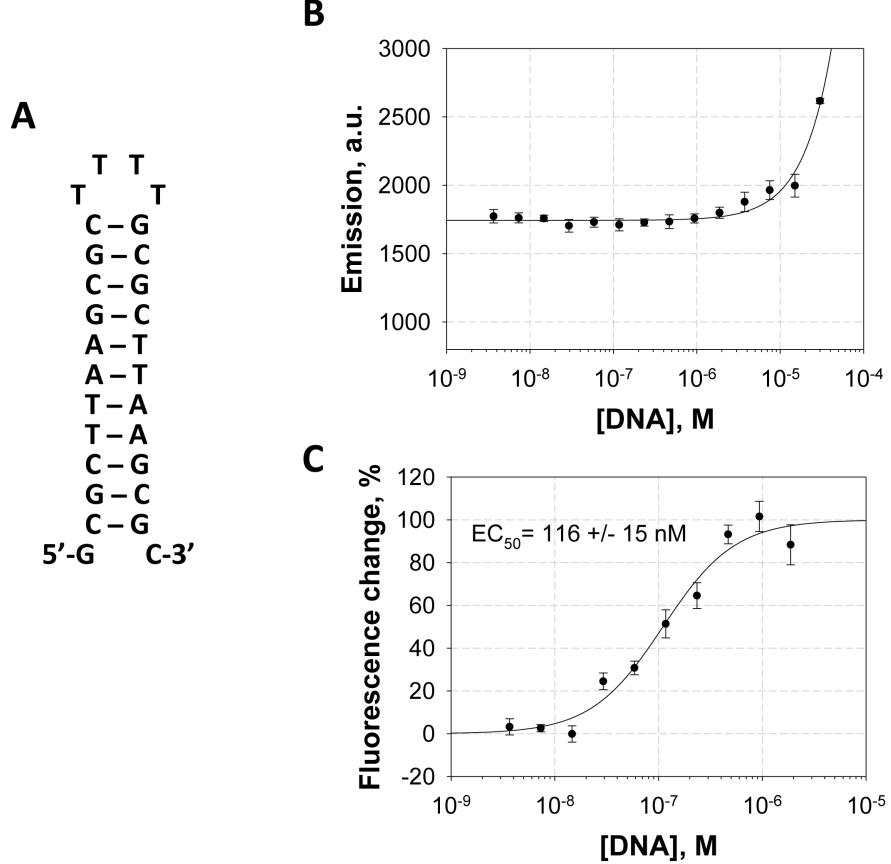
**Supplementary Figure 11.** Representative gel image of the binding of r(AUUCU)<sub>11</sub> to DGCR8 $\Delta$  (left) and its quantification.



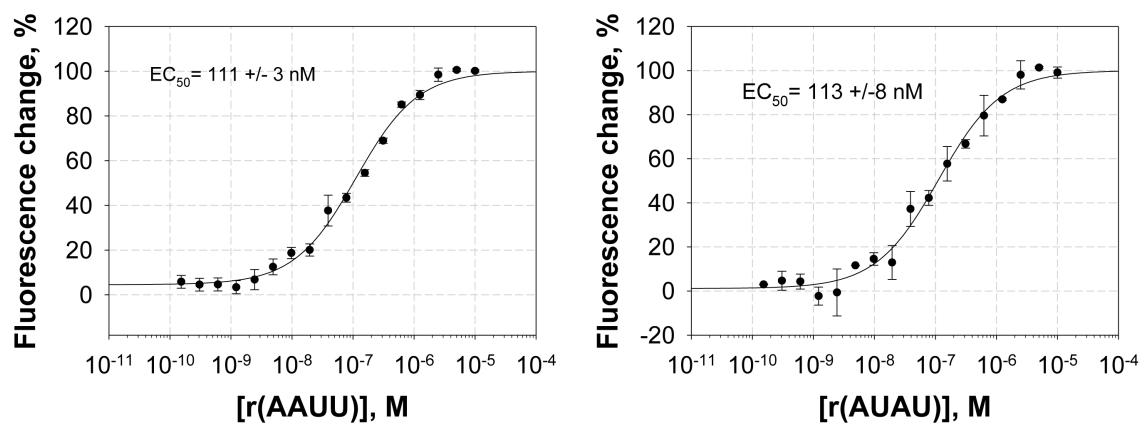
**Supplementary Figure 12.**  $IC_{50}$  of **2AU-2** and AU-azide for inhibiting binding of DGCR8 $\Delta$ .



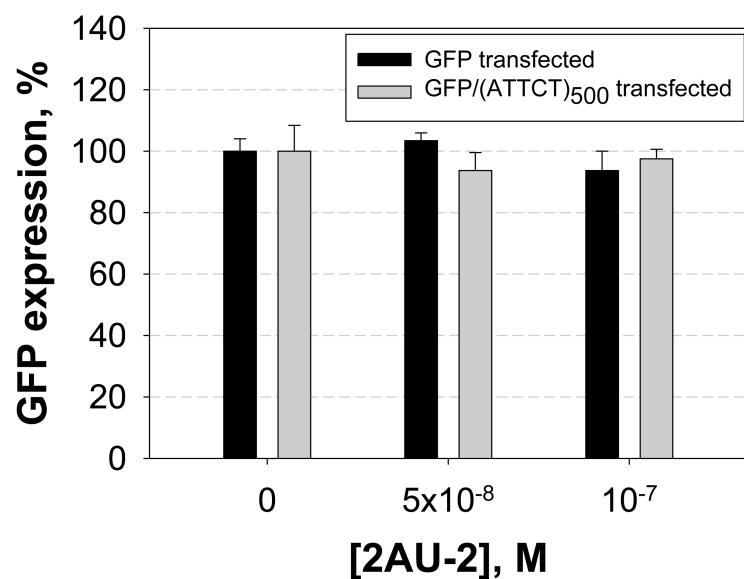
**Supplementary Figure 13.** Binding of **2AU-2** to  $r(\text{AUUCU})_{11}$  under molecularly crowded conditions.



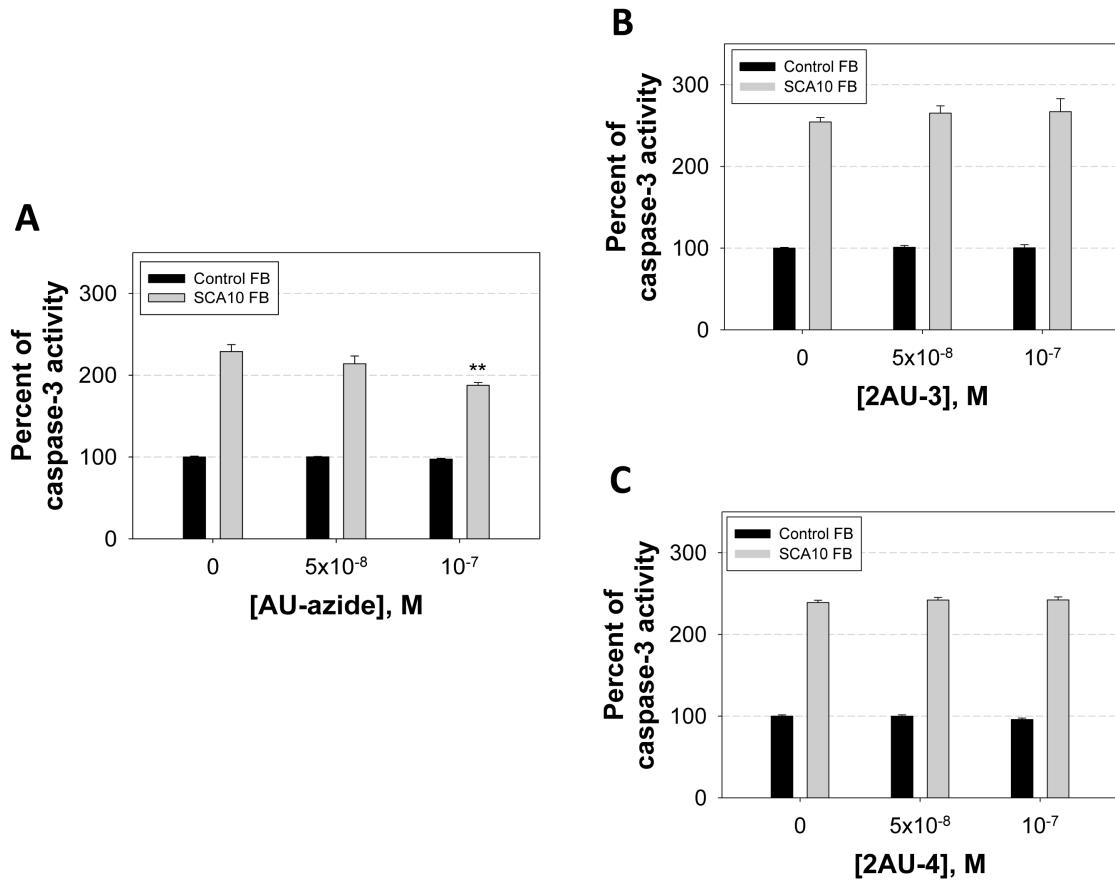
**Supplementary Figure 14.** The secondary structure of DNA (left) and the binding titration curve of **2AU-2** to the DNA (right). Saturable binding for **2AU-2** is not observed. [Compound]= 3  $\mu\text{M}$ .



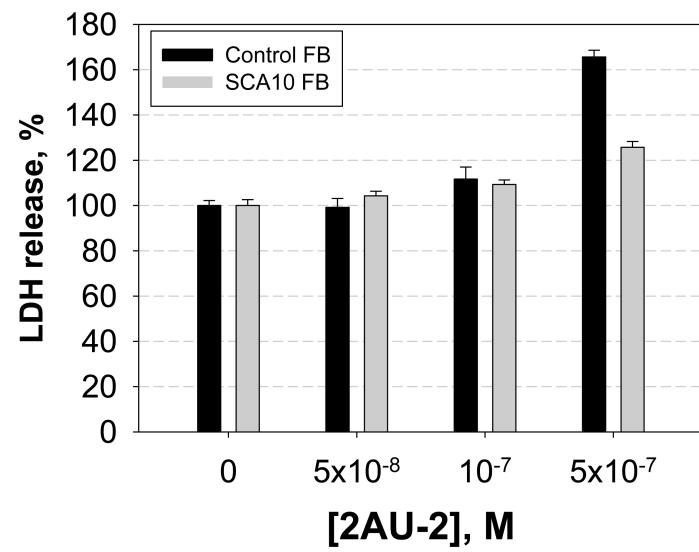
**Supplementary Figure 15.** EC<sub>50</sub>s of AU-azide to r(AAUU) and r(AUAU). [Compound] = 3  $\mu\text{M}$ .



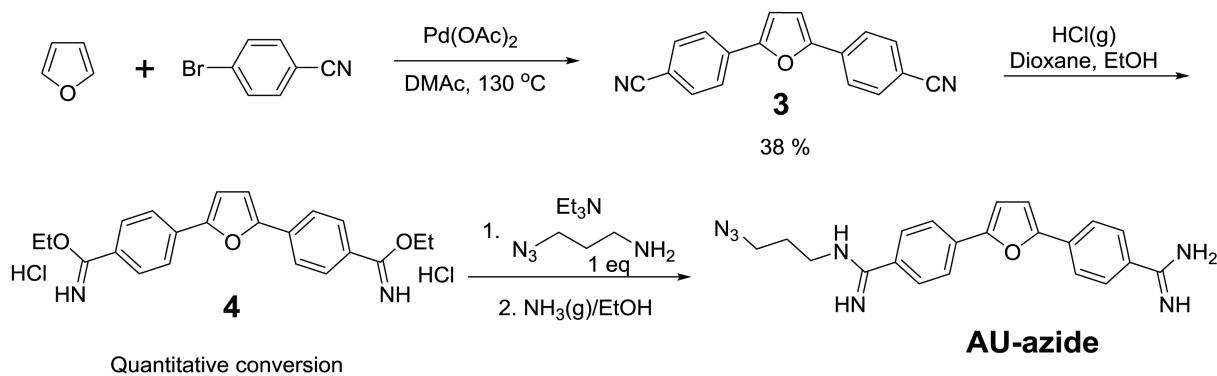
**Supplementary Figure 16.** Relative green fluorescent protein (GFP) expression measured by GFP fluorescence upon exposure to **2AU-2** compound. These data show that the compound has no effect on translation.



**Supplementary Figure 17.** Relative caspase-3 activities in normal and SCA10 fibroblasts before and after treatment with control compounds. **A**, AU-azide; **B**, 2AU-3; and **C**, 2AU-4.



**Supplementary Figure 18.** Cytotoxicity of **2AU-2** by measuring released LDH.



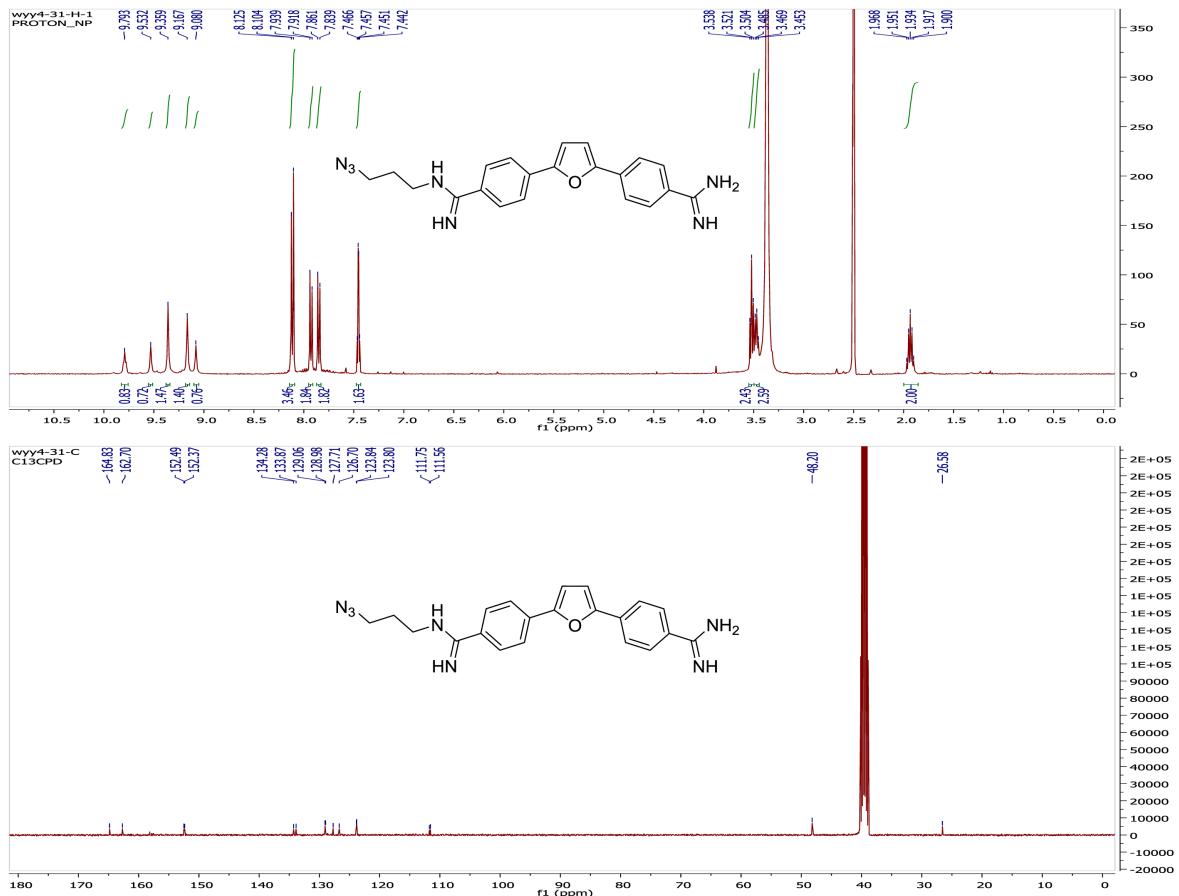
**Supplementary Figure 19.** Synthesis of AU-azide.

**4,4'-(Furan-2,5-diyl)dibenzonitrile (3).** To a mixture of 4-bromobenzonitrile (5.5 mmoles) in 20 mL N,N-dimethylacetamide (DMAc) in a sealing tube were added furan (2.8 mmoles), KOAc (11 mmoles) and 0.5%  $\text{Pd}(\text{OAc})_2$ . The reaction was stirred at  $130^\circ\text{C}$  overnight and the solvent was removed under reduced pressure. The product (38% yield) was isolated by flash silica gel column chromatography with 6-40% ethyl acetate (EtOAc)/ hexanes (Hex) of eluent solvent.<sup>1</sup>

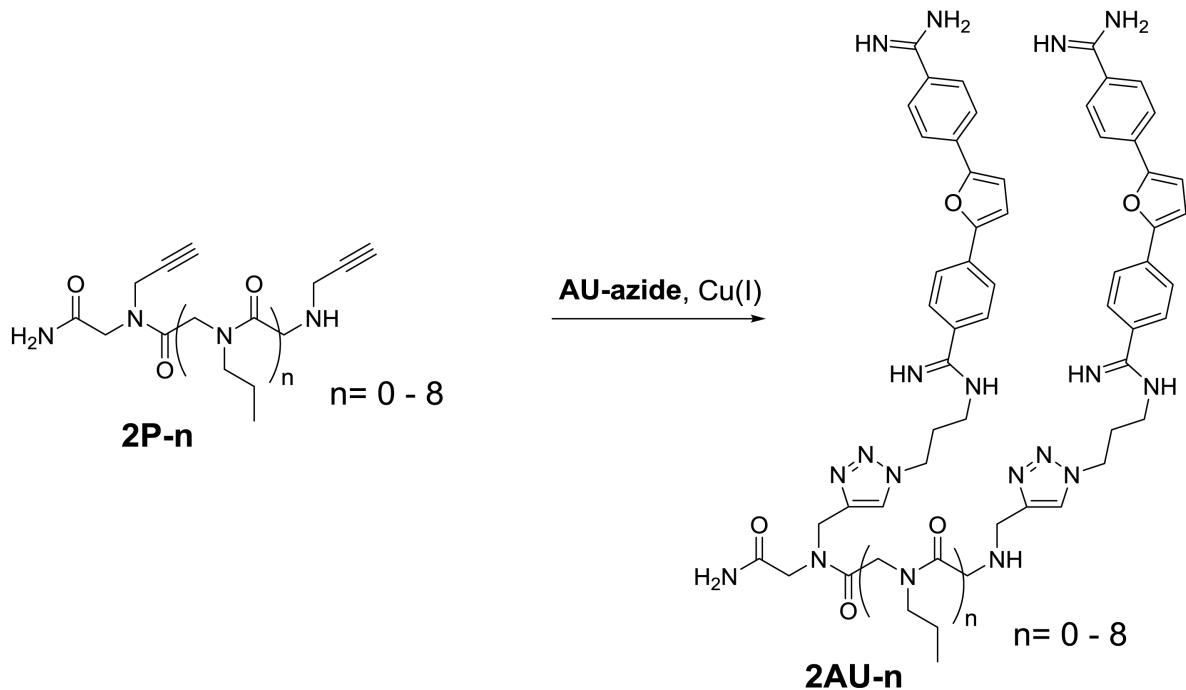
**Diethyl 4,4'-(furan-2,5-diyl)dibenzimidate hydrochloride (4).** 4,4'-(Furan-2,5-diyl)dibenzonitrile was dissolved in the mixture of 1,4-dioxane and ethanol (EtOH) and HCl gas was bubbled into the solution at  $0^\circ\text{C}$  for X h. The solvent was removed under vacuo and the product was obtained in quantitative yield.<sup>2</sup>

**N-(3-Azidopropyl)-4-(4-carbamimidoylphenyl)furan-2-yl)benzimidamide (AU-azide).** Diethyl 4,4'-(furan-2,5-diyl)dibenzimidate hydrochloride (2.1 mmoles) and  $\text{Et}_3\text{N}$  (5.25 mmoles) were dissolved in 25 mL EtOH and 3-azidopropylamine (2.1 mmoles) in 25 mL EtOH was added dropwise over 30 min. The mixture was stirred at room temperature overnight. Then,  $\text{NH}_3$  gas was bubbled into the solution at  $0^\circ\text{C}$  for 3 h. The solution was transferred to a sealing tube and

stirred at room temperature for 4 days. After removing the solvent under vacuo, the product was isolated by preparative HPLC (10-100% methanol (MeOH)/H<sub>2</sub>O with 0.1% trifluoracetic acid (TFA) for 60 min.). <sup>1</sup>H-NMR (400 MHz, DMSO-d<sub>6</sub>) δ 1.93 (2Hs, tt, *J*= 6.8 Hz, *J*= 6.4 Hz), 3.47 (2Hs, t, *J*= 6.4 Hz), 3.52 (2Hs, t, *J*= 6.8 Hz), 7.46 (2Hs, m), 7.85 (2Hs, d, *J*= 8.8 Hz), 7.93 (2Hs, d, *J*= 8.4 Hz), 8.11 (4Hs, d, *J*= 8.4 Hz), 9.08 (1H, s), 9.17 (1H, s), 9.36 (1H, s), 9.53 (1H, s), 9.79 (1H, m); <sup>13</sup>C-NMR (400 MHz, DMSO-d<sub>6</sub>) δ 26.58, 48.20, 111.56, 111.75, 123.80, 123.84, 126.70, 127.71, 128.98, 129.06, 133.87, 134.28, 152.37, 152.49, 162.70, 164.83; HRMS (ESI<sup>+</sup>) calculated for C<sub>21</sub>H<sub>22</sub>N<sub>7</sub>O: 388.1886, found: 388.1876.



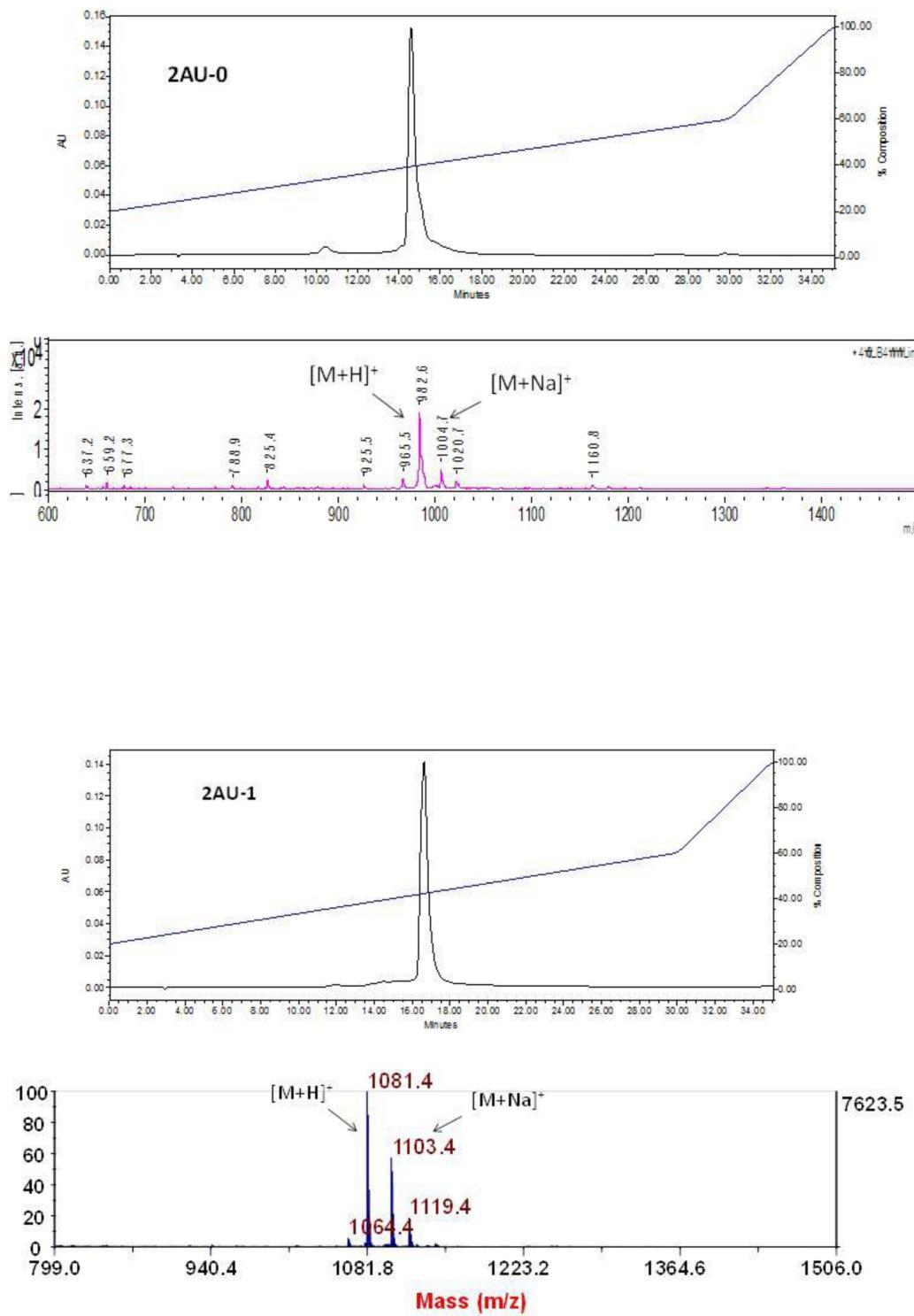
**Supplementary Figure 20.**  $^1\text{H}$  and  $^{13}\text{C}$ -NMR spectra of AU-azide.

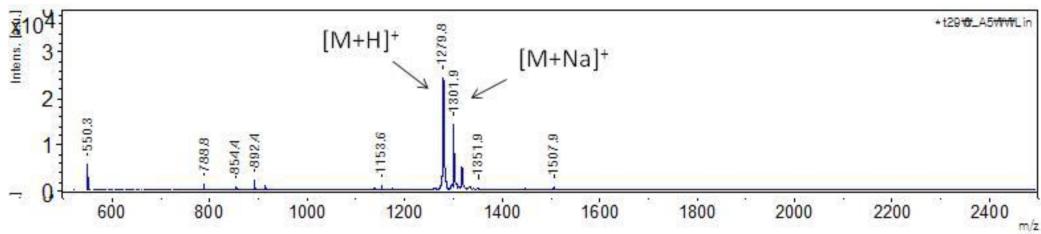
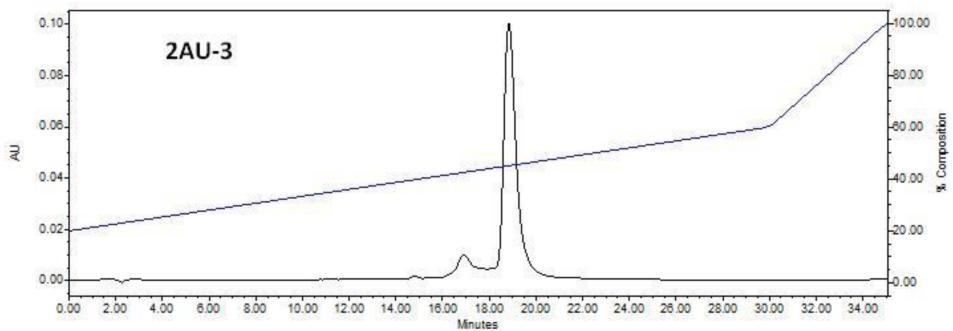
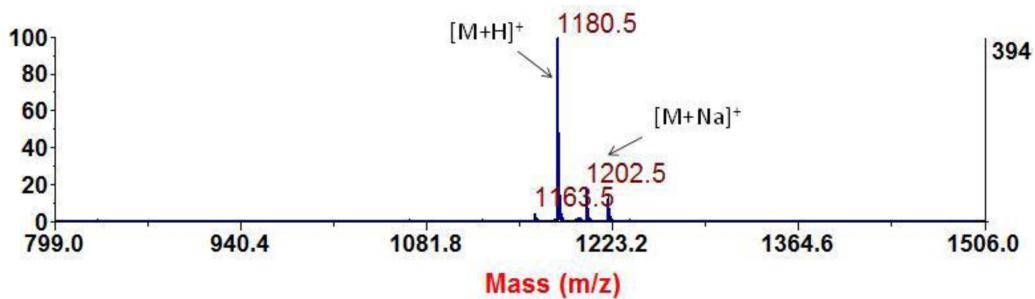
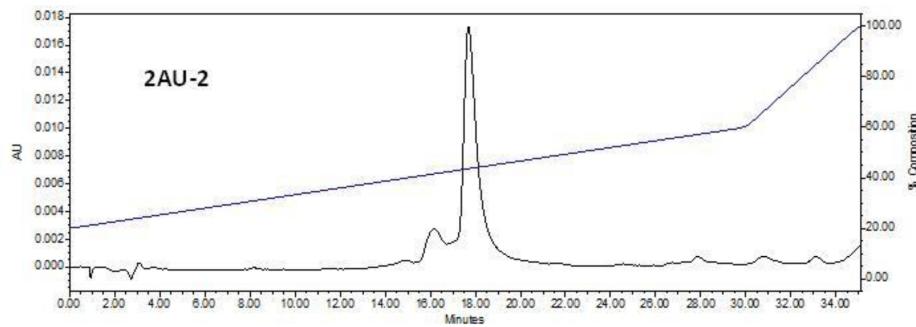


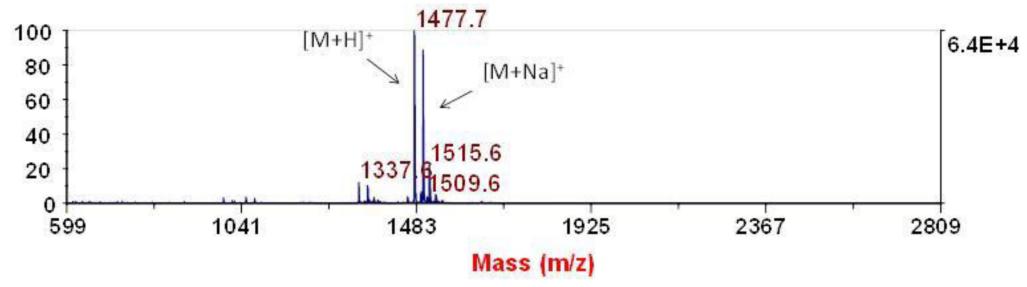
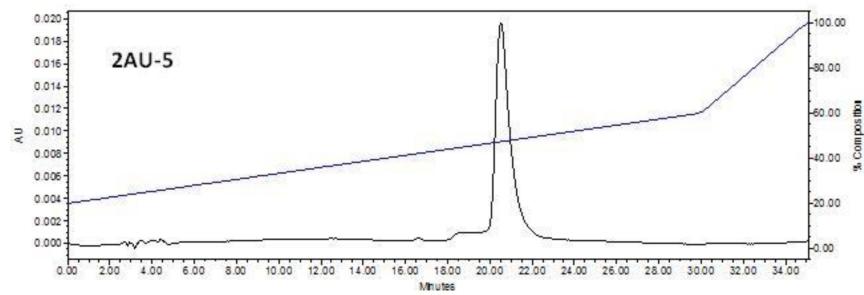
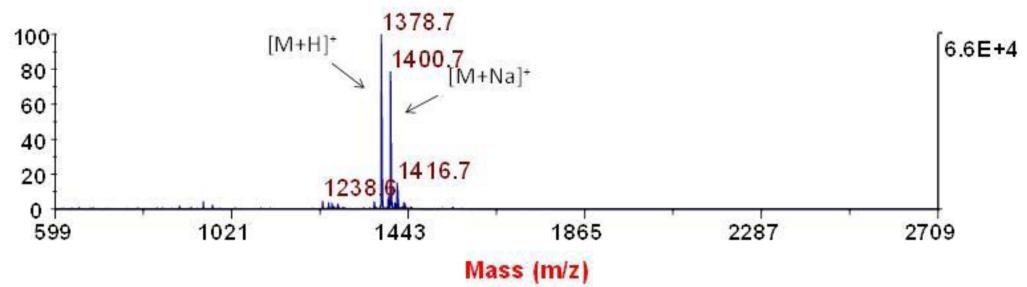
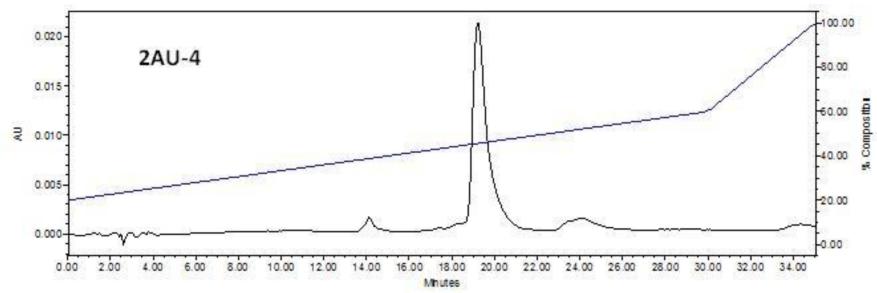
**Supplementary Figure 21.** Syntheses of **2AU-n**.

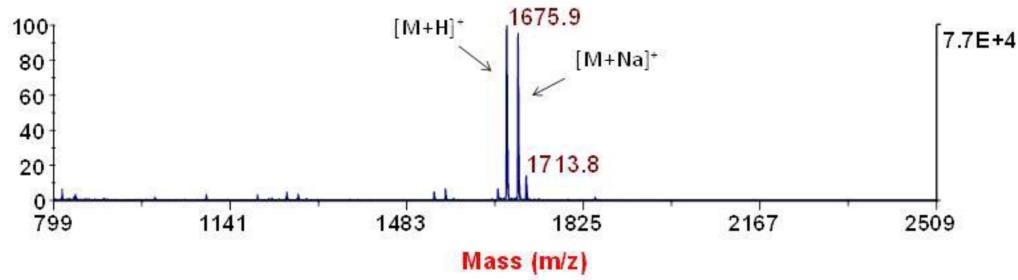
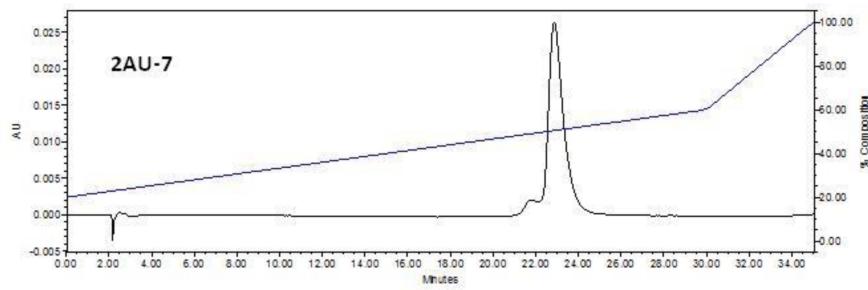
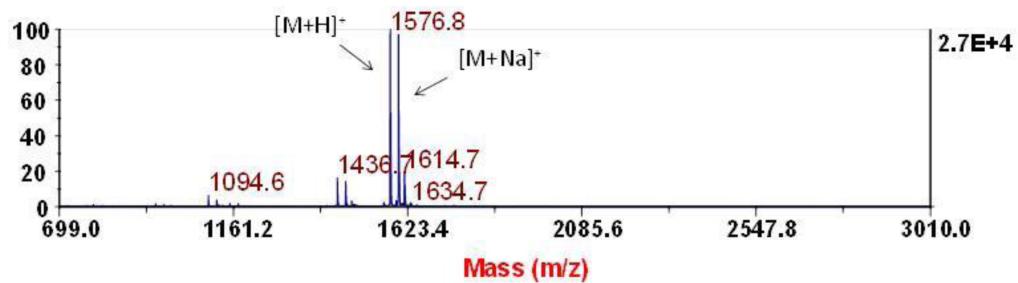
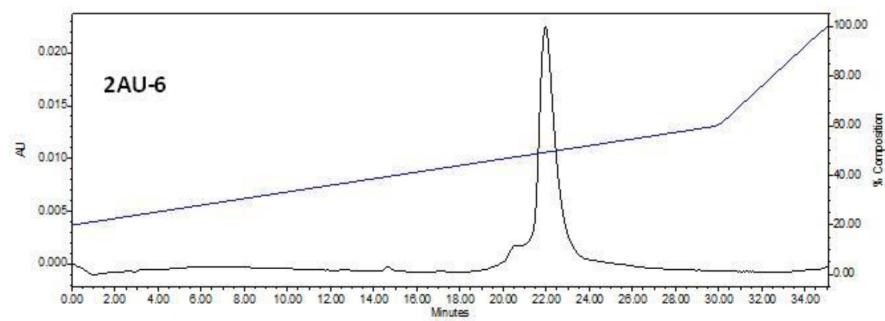
*General procedure for **AU-azide** conjugation to peptoids.* The corresponding peptoid backbone, synthesized as previously described,<sup>3</sup> was dissolved in DMF and Cu(I) catalyst, *N,N*-diisopropylethylamine (DIPEA) and **AU-azide** were added to the solution. The mixture was stirred overnight and the conjugate was purified by using reverse phase HPLC using a linear gradient of 20-100% MeOH in H<sub>2</sub>O with 0.1% TFA over 30-60 min.

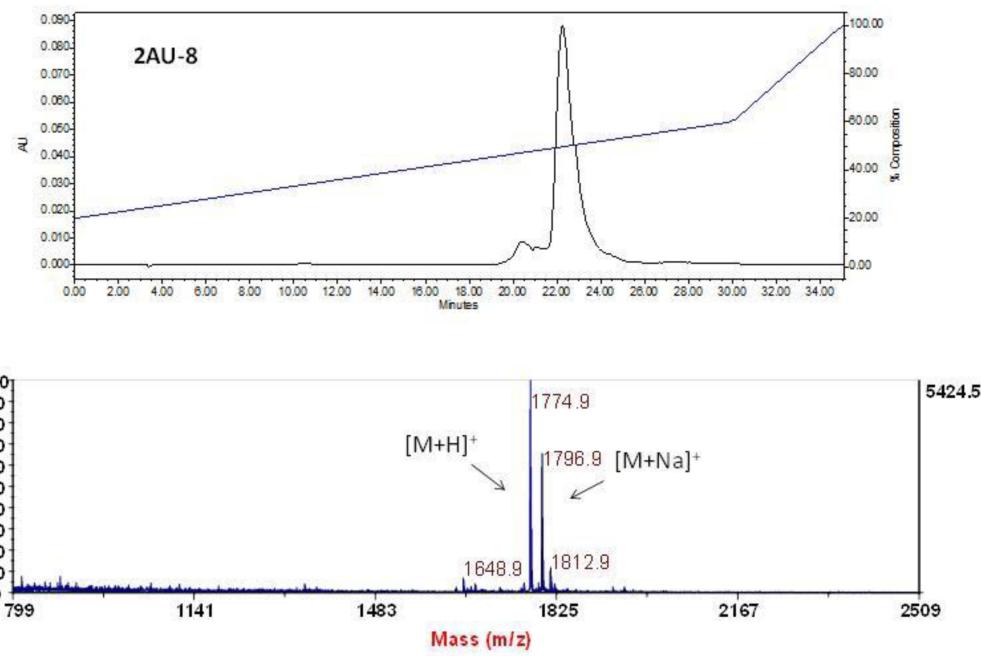
## HPLC traces and mass spectra for modularly assembled compounds



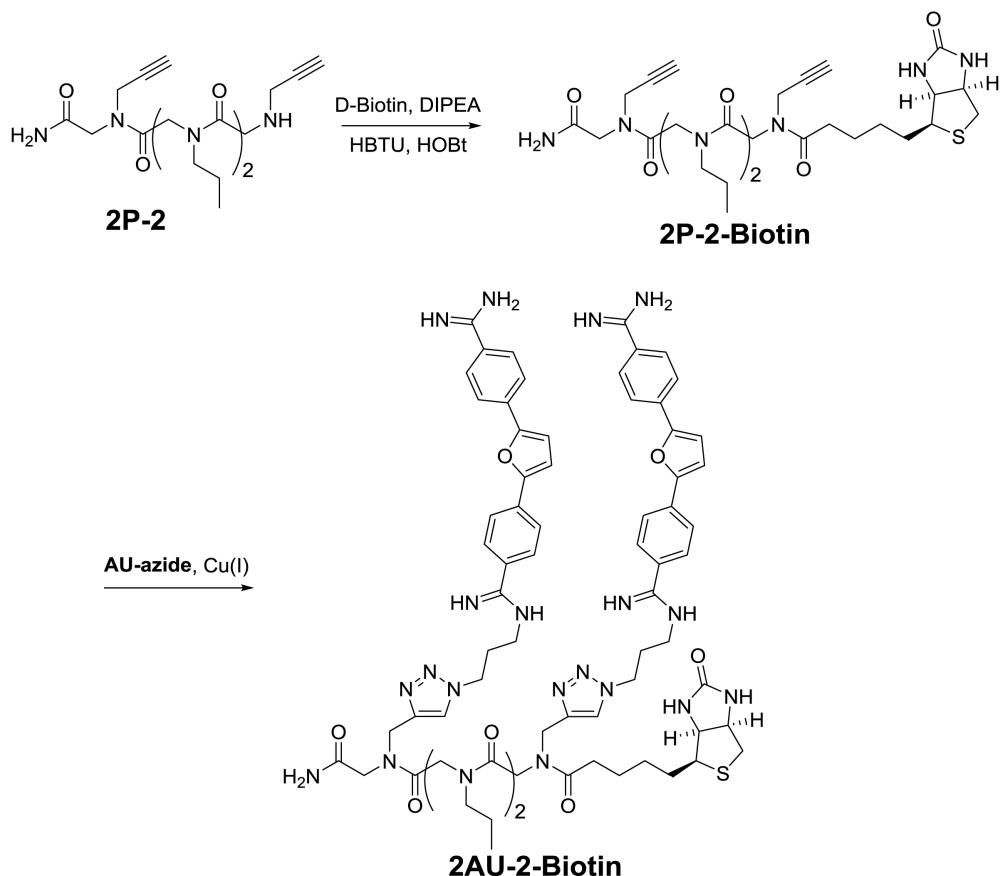








**Supplementary Figure 22.** HPLC chromatograms (blue: linear gradient of MeOH) and MALDI-TOF MS spectra of compounds.

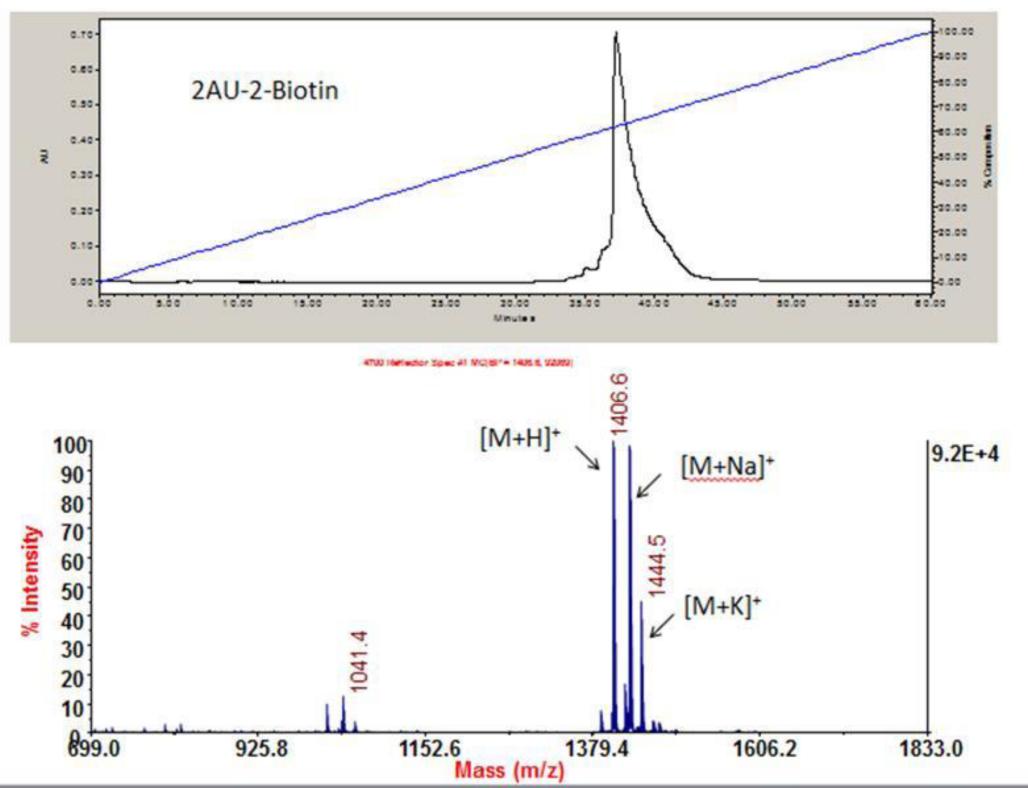


**Supplementary Figure 23.** Synthesis of **2AU-2-Biotin**.

### Synthesis of **2AU-2-Biotin**

**2P-2-Biotin.** **2P-2** on rink amide resin was shaken with a solution of D-biotin (5 eq.), HBTU (5 eq.) and HOBr (5 eq.) in DMSO at 37 °C for 1 h. **2P-2-Biotin** was cleaved from the resin by treatment with 60:40:1 of TFA:CH<sub>2</sub>Cl<sub>2</sub> H<sub>2</sub>O for 1 h and purified by HPLC.

**2AU-2-Biotin.** **2P-2-Biotin** (10 µmoles) was dissolved in DMF and Cu(I) catalyst (6 µmoles), DIPEA (10 µL) and **AU-azide** (20 µmoles) were added to the solution. The mixture was stirred overnight and **2AU-2-Biotin** (yield: 22%) was purified by using reverse phase HPLC as described above.

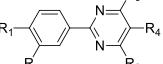
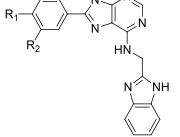
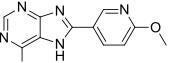
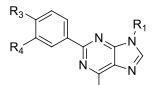
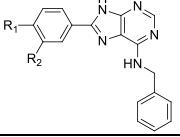
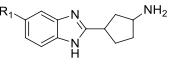
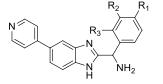
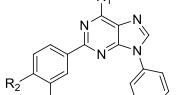
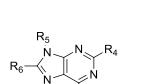
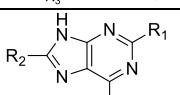
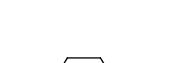
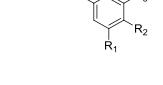
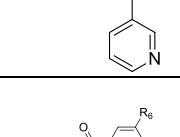
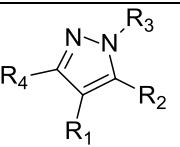
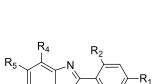
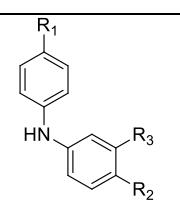


**Supplementary Figure 24.** HPLC chromatogram (blue: linear gradient of MeOH) and MALDI-TOF MS spectrum of **2AU-2-Biotin**.

## Supplementary Tables

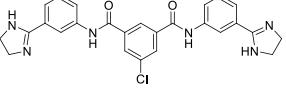
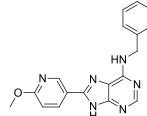
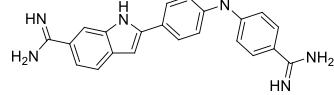
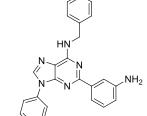
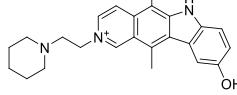
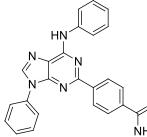
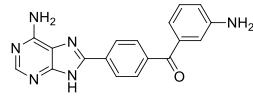
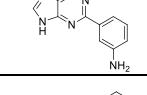
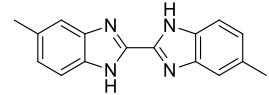
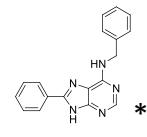
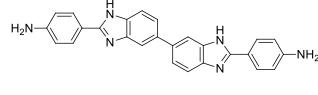
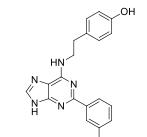
**Supplementary Table 1.** Substructures contained in the 104 compounds screened for binding to RNA base pairs.

	Structure	Count		Structure	Count		Structure	Count
1		57	18		7	35		3
2		45	19		6	36		2
3		37	20		6	37		2
4		34	21		6	38		2
5		33	22		5	39		2
6		25	23		5	40		2
7		22	24		5	41		2
8		19	25		4	42		2
9		18	26		4	43		2
10		17	27		3	44		2
11		15	28		3	45		2

12		13	29		3	46		2
13		9	30		3	47		2
14		8	31		3	48		2
15		8	32		3	49		2
16		7	33		3	50		2
17		7	34		3			

**Supplementary Table 2.** Structures of hit compounds that bind RNA base pairs (>20% change in fluorescence intensity in the presence and absence of RNA). Asterisk (\*) indicates selective binders.

Structure	Binding RNA(s)	Structure	Binding RNA(s)
	AAUU/GGCC		AUAU/GGCC/ GCGC
	AAUU/AUAU		AAUU/AUAU
	AAUU/GGCC/ GCGC		AAUU
	AAUU/AUAU/ GGCC/GCGC		GCGC
	AAUU/AUAU/ GGCC		AAUU/AUAU
	AAUU/AUAU		AAUU
	GCGC		AUAU
	AAUU/AUAU		AAUU/GGCC/ GCGC
	AUAU		AAUU/AUAU

	AAUU/AUAU/ GGCC/GCGC		GCGC
	AAUU/AUAU/ GGCC/GCGC		AUAU/GCGC
	AUAU		AUAU/GGCC/ GCGC
	GCGC		GGCC/GCGC
	GGCC/GCGC		GGCC/GCGC
	AAUU/AUAU/ GGCC/GCGC		AAUU/GCGC

<sup>a</sup>This compound was selected from the group of compounds with <20 % of fluorescence change.

**Supplementary Table 3.** Sequence of primers for qPCR

RNA	Forward	Reverse	RNA	Forward	Reverse
18S rRNA	GTAACCCGTTGAACCCCATT	CCATCCAATCGGTAGTAGCG	FLNA	AGGGGACGCCCTTAA T	GTCGCTCTAGGAACAG CAG
28S rRNA	AGAGGTAAACGGGTGGGGT C	GGGGTGGGAGGAACGG	RPS6	CAAGAGAACAGAGGAG GCTAAGG	AAGCTCGCAGAGAGGAA AGTCT
5.8S rRNA	ACTCGGCTCGTCGTC	GCGACGCTCAGACAGG	Rpl11	ACTTCGCATCCCAA CT	TGTGAGCTGCTCCA CCTT
45S rRNA	GAACGGTGGTGTGCGTT	GCGTCTCGTCTCGTCTCACT	ENO1	GCCTCTGCTCAAAGTCA AC	AACGATGAGACACCAG ACG
5S rRNA	GGCCATACCACCCCTGAACGC	CAGCACCCGGTATTCCAGG	COX2	GCAGGGTGCTGGTGGT AG	ATTCATCTGCCGCTCT GG
7SK	CCCCTGCTAGAACCTCCAAA C	CACATGCAGCGCCTCATTT	GNB2L1	TGGCTAACTGCAAGCTG AAGAC	ATCTGGAGAGACAGTCA CCGTG
7SL	ATCGGGTGTCCGCACTAAGT T	CAGCACGGAGTTTGACCT	PKM2	TACCATGCGGAGACCAT CAA	AGCAACGGGCGGTAGA G
ACA16	GGCCCTTATCGAAGCTGCA	CGGCGACCGTCAAGGA	CLU	CCAGTGGAAAGATGCTCA AC	CGAGTCAGAAGTGTGGG AACG
ACA44	GTTCACAAGGGCTGGCT	TGTACTGACCTGCGCTGTCA A	CANX	GCAACCACCTCCCTCCA T	TCCGCCCTCTCTTACT GC
ACA61	CCTTCCCACCGATCTGAA	CCACATGCCATATACCAGAT TACAAC	RPS9	AGACCCAGGTCTCAAG CTG	ATGAAGGACGGGATGTT CAC
BC200	TGGCTCACGCCGTAAATCC	CCCAGGCAGGTCTGA ACT	GNAS	CAGTGGAGATGGCGTC ACTA	CGGCGGATGTTCTCAGT GT
HBI-36	CAGCACTGCCAAGTGACCC	ATATGTACCCAGCTGCATGC AG	COX1	CGATGCATACACCACAT GAA	AGCGAAGGCTCTCAA TCA
HBII-85	TGGATCGATGATGAGTCC	TGGACCTCAGTCCGATGAG A	B2M	TGCTGTCATGTTGA TGTATCT	TCTCTGCTCCCCACCTCT AAGT
HBII-420	ACTGGTCAGGATGAAACCT AATT	CCTAGGAGCTGGTCTCAGTC CC	RPS3	TCCTCGGAGTTCCAGA C	TCCTAGGAGGGCTTGCT GT
U1	CCATGATCACGAAGGTGGT T	ATGCAGTCGAGTTCCACA T	EEF1A1	TGCGGTTTGTCA A	AAGAGTGGGTGGCAG GTATTAG
U2	TTCTCGGCCCTTGGCTAAG	CTCCCTGCTCCAAAAATCCA	Rpl27	TCCAAGGGGATATCCAC AGA	CATGGGCAAGAAGAAC ATCG
U4	GCCAATGAGGTTATCCGAG G	TCAAAAATTGCCATGCCG	RPL37	AAAACCAAGAACATTATT GCATGA	TCCGTGAAGGAACAACA CCT
U5	TGGTTCTCTCAGATCGCAT AAA	CCAAGGCAAGGCTCAAAA AT	RPL3	CCTCCGTTACCTGGATC T	CCAAGTCATCCGTGTCAT TG
U6	CTCGCTCGGAGCACA	AACGCTCACGAATTGCGT	EEF2	GCACGTTGACTCTTCAC TG	CTGGAGATCTGCTGAA GGA
U12	GCCCGAATCCTCACTGCTAA	TCGCAACTCCAGGCATC	ND2	GCCCTAGAAATAAACAT GCTA	GGGCTATTCTAGTTTA TT
U87	ATGGGATCATGGAGCAGCT G	TCACACCCATGACTGCCACT	TPT1	CATGATTATCTACCGGG ACCTCAT	AACCCGTCGGCGATCTC
U105	CCCCTATCTCATGATGAAC ACATAT	CCCCATCTTCTCAGAGCG	TMSB4X	AGACCAGACTTCGCTCG TA	CTGCTCGTTCTCTGTT
tRNA(Lys)	CGGCTAGCTCAGTCGGTAGA	CCCACGCCCTGAGATTAAAG	RPL4	GCTCTGCCAGGGTGCT TTG	ATGGCGTATCGTTTG GTTGT
tRNA(Ala)	GGGGGTGTAGCTCAGTGGT A	AGGCCTCATACATGCAAAGC	CCT5	ACAGCCTTGTGCCATT AT	GCCCTTCCATCATCATCA AG
tRNA(Cys)	GCTCAGGGGTAGAGCATTG	ACCGGGGACTTCTGGATCT	PRDX1	GGGCACACAAAGGTGAA GTC	GCTGTTATGCCAGATGG TCAG
tRNA(His)	GCAGTGACTGTAGTGGTT AGCA	GTGGCCACAACACAGAGTG	PFN1	GATCACCGAACATTCTG GC	AAACGTTCGTCAACATCA CG
tRNA(Ser)	TAGTCGTGGCGAGTGGTTA	GGAAACCCCAATGGATTCT A	Rps24	AAGACCAACCGGGATGT CATC	TGCCAAAGCCAGTTGTCT TG
tRNA(Val)	TGGTTATCACGTTGCCCTAA	GTTCGAACCGGGGACCT	PPIA	TTATTTGGGTTGCTCCCT TC	AAAGTGTGCCAAATCTGC AAG
tRNA(Arg)	CAGTGGCGCAATGGATAAC	CAGGAGTCGAACCTGGAATC	LDHB	TGGCGTGTGCTATCAGC ATT	GCTTATCTCCAAAACAT CCACAAG
tRNA(Gln)	TGGTTAGCACTCTGGACTCT GA	AGGTTCCACCGAGATTGAA	LGALS1	AAGCTGCCAGATGGATA CGAA	CGTCAGCTGCCATGTAG TTGA
tRNA(Ile)	CAGTTGGTAGAGCGTGGT	CCACGACCTGGCGTTATTA	PGK1	ATGGATGAGGTGGTGA AGC	CAGTGCTCACATGGCTG ACT

tRNA(Thr)	TAGCTGGTTAAAGCGCCTGT	GAACCCAGGATCTCCTGTT ACT	BASP1	CAATGCCAATCCTCCATT CT	AACTACAGGTGCACCCA ACC
tRNA(Asn)	CAATGGGTTAGCGCGTTC	AACCACCAACCTTCGGTTA	YBX1	TGATGGAGGGTGCTGAC AAC	CCTGCGGAATCGTGGTC TAT
tRNA(Glu)	CTGGTGGTCTAGTGGCTAGG A	CTGGCCGGGAATCGAAC	KRT7	TGGAGGACTTCAGAAAT AAGTACGAA	TCATGTAGGCAGCATCC ACATC
tRNA(Ini)	CATAACCCAGAGGTGATGG	TAGCAGAGGATGGTTGAT	CYTB	AATTCTCCGATCCGTC TA	GGAGGATGGGGATTATT GCT
tRNA(Phe)	TCAGTTGGAGAGCGTTACA	AGGGTTGAACCAGGGAACCT	NONO	CCCTTACAGTTGAAACC TT	ATGACTACAGCCCTCT AC
tRNA(Trp)	GCGCGTCTGACTCCAGAT	ACGTGATTGAACACGCAAC	ND1	ATACCCCCATTCGCTA CGAC	GTTTGAGGGGAAATGCT GGAGA
tRNA(Asp)	TCTGCCTGTCATGTGGAGAC	CCTGTTGGGACTCAAAC	ALDOA	CGGGAAGAAGGAGAAC CTG	GACCGCTCGGAGTGTAC TTT
tRNA(Gly)	GCATTGGTGGTTAGTGGTA	ATTGGCCGGATTGAAAC	P4HB	GCAAACTGAGCAACTTC AAA	TTCTTCAGGCCAAAGAA CTC
tRNA(Leu)	GGTCTAAGGCCTGGATTAA G	CCCCCGAAGAGACTGGAG	LDHA	ACCCAGTTTCCACCATGA TT	CCCAAAATGCAAGGAAC ACT
tRNA(Pro)	GGGGTATGATTCTCGCTTAG G	ATTGAACCCGGGACCTCT	APP	GCTGGCTGAACCCCAGA TT	CCCACTCCCCATTCTGGA CAT
tRNA(Tyr)	CTGGTAGAGCGGAGGACTG T	GGAATTGAACCGAGCGACCTA	FOLR1	GCACCACAAGGAAAAGC CAG	CATTCTCCCTCAGGGTC GAC
tRNA(Sec)	GGCTTCAACCTGTAGCTGT C	CCGAAATGGAATTGAACCAC	ACTB	CTGGAACCGGTGAAGGTG ACA	AAGGGACTTCTGTAAAC AATGCA
FTH1	GGCAAAGTTCTCAAAGCCA	CATCAACCGCCAGATCAAC	RPL13	CCCGTCCGGAACGTCTAT AA	CTAGCGAAGGCTTGAA ATTCTC
GAPDH	TGCACCACCAACTGCTTAGC	GGCATGGACTGTGGTCA	RPS21	GGCGAGTTCTGGACCT GTA	GGATGGATGGGTGGTCC TT
ATP6	TTCTGGAATGACTCCTTG	TTGGCCAGAATGAACTTGAA	S100A6	CTGCAGGATGCTGAAAT TGC	GGAAGTTCACCTCTGG TCCTT
RPL8	AGATGGGTTGTCATTGG	CAAGAAGACCCGTGTGAAG C			

**Supplementary Table 4.** Characterization of modularly assembled molecules including HPLC retention times, and calculated and observed masses.

Compound	Molecular Formula	t <sub>R</sub> (min) <sup>a</sup>	Mass (Calculated)	MALDI-TOF (+)-Mass (Found)
<b>2AU-0</b>	C <sub>52</sub> H <sub>55</sub> N <sub>17</sub> O <sub>4</sub>	14.6	981.5 (M)	982.6 (M+H)
<b>2AU-1</b>	C <sub>57</sub> H <sub>64</sub> N <sub>18</sub> O <sub>5</sub>	16.6	1080.5 (M)	1081.4 (M+H)
<b>2AU-2</b>	C <sub>62</sub> H <sub>73</sub> N <sub>19</sub> O <sub>6</sub>	17.7	1179.6 (M)	1180.5 (M+H)
<b>2AU-3</b>	C <sub>67</sub> H <sub>82</sub> N <sub>20</sub> O <sub>7</sub>	18.8	1278.7 (M)	1279.8 (M+H)
<b>2AU-4</b>	C <sub>72</sub> H <sub>91</sub> N <sub>21</sub> O <sub>8</sub>	19.2	1377.7 (M)	1378.7 (M+H)
<b>2AU-5</b>	C <sub>77</sub> H <sub>100</sub> N <sub>22</sub> O <sub>9</sub>	20.5	1476.8 (M)	1477.7 (M+H)
<b>2AU-6</b>	C <sub>82</sub> H <sub>109</sub> N <sub>23</sub> O <sub>10</sub>	22.0	1575.9 (M)	1576.8 (M+H)
<b>2AU-7</b>	C <sub>87</sub> H <sub>118</sub> N <sub>24</sub> O <sub>11</sub>	22.9	1674.9 (M)	1675.9 (M+H)
<b>2AU-8</b>	C <sub>92</sub> H <sub>127</sub> N <sub>25</sub> O <sub>12</sub>	22.3	1774.0 (M)	1774.8 (M+H)
<b>2AU-2-Biotin</b>	C <sub>72</sub> H <sub>87</sub> N <sub>21</sub> O <sub>8</sub> S	38.0 <sup>b</sup>	1405.7 (M)	1406.6 (M+H)

<sup>a</sup> gradient of 20-60% MeOH in H<sub>2</sub>O with 0.1% TFA over 30 min

<sup>b</sup> gradient of 0-100% MeOH in H<sub>2</sub>O with 0.1% TFA over 60 min

## **Supplementary References**

1. Fu HY, Doucet H. Methyl 2-Furoate: An Alternative Reagent to Furan for Palladium-Catalysed Direct Arylation. *Eur. J. Org. Chem.* **2011**, 7163-7173 (2011).
2. Das BP, Boykin DW. Synthesis and antiprotozoal activity of 2,5-bis(4-guanylphenyl)furan. *J. Med. Chem.* **20**, 531-536 (1977).
3. Pushechnikov A, *et al.* Rational design of ligands targeting triplet repeating transcripts that cause RNA dominant disease: application to myotonic muscular dystrophy type 1 and spinocerebellar ataxia type 3. *J. Am. Chem. Soc.* **131**, 9767-9779 (2009).