

Table 1: Binding and fluorescent properties of Mango and Peach Aptamers.

Aptamer	Sequence (cores in bold/underline)	TO1-B (ex:510/em:535)		TO3-B (ex:637/em:658)		YO3-B (ex:595/em:620)		References
		Kd (nM)	Brightness (M ⁻¹ cm ⁻¹)	Kd (nM)	Brightness (M ⁻¹ cm ⁻¹)	Kd (nM)	Brightness (M ⁻¹ cm ⁻¹)	
Mango I	G GCA CGU AC <u>G</u> AAG GGA CGG UGC GGA GAG GAG AGU ACG UGC	2.2 ± 0.3	10,900	5.1 ± 0.3	9,500	26	ND	1, 2, 3
Mango II	G GCA CGU AC <u>G</u> AAG GAG AGG AGA GGA AGA GGA GAG UAC GUG C	0.7 ± 0.3	17,000	1.8 ± 0.1	16,900	ND	ND	1, 2
Mango III	G GCA CGU AC <u>G</u> AAG GAA GGA UUG GUA UGU GGU AUA UUC GUA CGU GCC	5.6 ± 0.2	43,000	15 ± 1	11,000	ND	ND	1, 2
Mango III (A10U)	G GCA CGU AC <u>G</u> AAG GAA GGU UUG GUA UGU GGU AUA UUC GUA CGU GC	1.7 ± 1.0	51,200	160 ± 20	8,000*	120 ± 10*	47,600*	2, 4
Mango IV	G GCA CGU AC <u>C</u> GAG GGA GUG GUG AGG AUG AGG CGA GUA CGU GC	11 ± 1	32,000	10 ± 1	18,700	ND	ND	1, 2
Peach 1	G GAA UCC CUG AAG GAU GUG GGG GAG GGA GAA GGG AUU CC	43 ± 4	4,400	20 ± 1	17,800	22 ± 1	77,300	5*
Peach 2	G GCG UAA GGU UAA AAG GUG UGG ACG AUG GUG GGA GAC CUU ACG CC	220 ± 20	5,500	71 ± 6	12,900	190 ± 10	54,400	5*

*Not published. **Red**, determined through comparative data in references.

Table 2: Resistance properties of Mango Aptamers.

Aptamer	Formamide* (maintains >75% RFU)	Formaldehyde ¹ (maintains >75% RFU)	Mg ²⁺ Resistance ¹ (maintains >75% RFU)	Cell Imaging Use	RNA Pulldown	Transcription Reporting
Mango I	Up to 12%	4%	Up to 8 mM	NA	7	NA
Mango II	Up to 34%	8%	Up to 260 mM	1,6	NA	NA
Mango III	Up to 8%	0%	Up to 130 mM	NA	NA	8, 9, 10
Mango III (A10U)	ND	0%	Up to 130 mM	NA	NA	NA
Mango IV	Up to 12%	0%	Up to 260 mM	1	NA	8

*Not published.

References

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