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Supplemental Information

Molecular Recognition and *In-Vitro*-Targeted Inhibition of Renal Cell Carcinoma Using a DNA Aptamer

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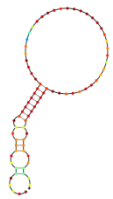
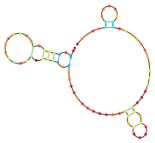
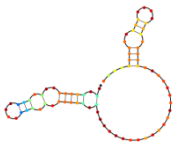
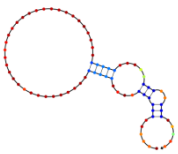
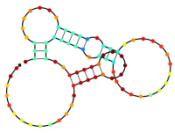
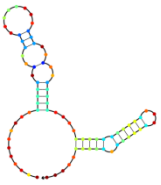
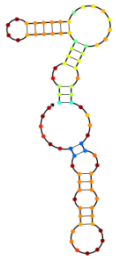
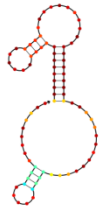
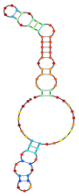
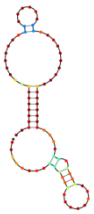
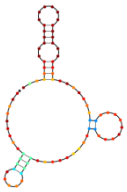
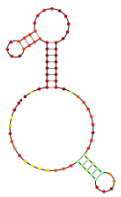
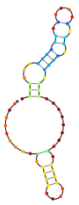
Supplemental Information

Supplemental Table S1 Sequences and secondary structures of swan library

Name	Sequences (5' → 3')	Secondary structure
SW-1	ACCGACCGTGCTGGACTCATAGTAGGGGGCATGAAATAGGGAAGGTGGTGTGGGTGTAGACTATGAGCGAGCCTGGCG	
SW-4	ACCGACCGTGCTGGACTCATAGGGTTAGGGGCTGCTGGCCAGATATTCAGATGGTAGGGTTACTATGAGCGAGCCTGGCG	
SW-5	ACCGACCGTGCTGGACTCAGGCGGTTTGTTAAGTGGGTGGAGTAGGGGTAGGCGGGTTAACTATGAGCGAGCCTGGCG	
SW-13	ACGCTCGGATGCCACTACAGACTCTTACTCGCCTATCTCTCTTACTCCTCCCTCTTCTGTCACCAGCACGTCCATGAG	
SW-14	ACGCTCGGATGCCACTACAGAGTCTCGTCTGGTTTGCTGAGGTGGGCGACGGTGAAAAGAGTCACCAGCACGTCCATGAG	
SW-15	ACGCTCGGATGCCACTACAGCAAGGTGCAAATTGAAGGGGGTGGGTTGGGATGGTTGGTGTCACCAGCACGTCCATGAG	

SW-16	ACGCTCGGATGCCACTACAGTGGCATCGTGGTATCC GTCGTAGAAGAAAGTGGTGGCATGTCACCAGCACG TCCATGAG	
SW-17	ACGCTCGGATGCCACTACAGGCAGGAGAGCTGATT CCGGGCGTAGAAAGTAAAATTTGTGTCACCAGCAC GTCCATGAG	
SW-19	ACGCTCGGATGCCACTACAGGTTGGGGTCGGGCAT GCGTCCGGAGAAGGGCAAACGAGAGGTCACCAGCA CGTCCATGAG	
SW-20	ACGCTCGGATGCCACTACAGCCCTCTCGCACTCTCT CAAATCCGAGCCATCCGATGCTTTGTCACCAGCACG TCCATGAG	
SW-21	ACGCTCGGATGCCACTACAGGCAGACGAGGAGAGA GCGGTTGTATTTCGAGTGTAAAAGTGTCACCAGCAC GTCCATGAG	
SW-22	ACGCTCGGATGCCACTACAGTGGGTGTTCCGACATC CGAGAGCTTGAATAGTGGCGTATAGTCACCAGCAC GTCCATGAG	
SW-27	ACGCTCGGATGCCACTACAGAGGACGTCGGCGAAA TTAATAGGTCCTCATGGACGTGCTGGTGAC	

SW-30	ACGCTCGGATGCCACTACAGGCGAAATTGTACGATTAAAGAGAGGTTAGGCAATTAGTCACTCATGGACGTGCTGGTGAC	
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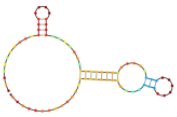
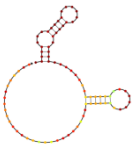
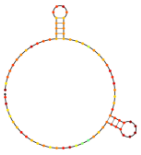
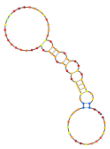
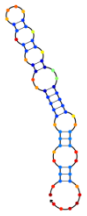
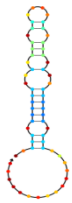
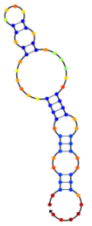
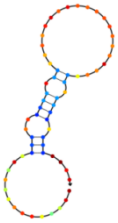
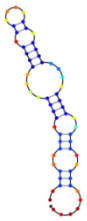
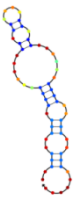
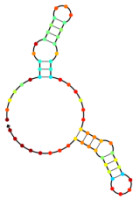
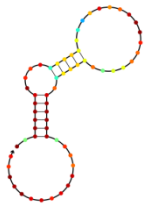
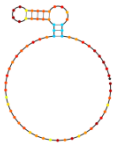
SW-32	ACGCTCGGATGCCACTACAGTGGTGAGTCTCCGTGAGGGAGTTCGTAAATAGACGCGAGCCTCATGGACGTGCTGGTGAC	
SW-33	ACGCTCGGATGCCACTACAGGCTCAGGGGGGGCTGCGATCGGCGATCGGGGTAGCTGGCTCATGGACGTGCTGGTGAC	
SW-34	ACGCTCGGATGCCACTACAGGCATAAGCGATTAGTCAATTTATTGTGTGGGATAAATAAGATAAACTCATGGACGTGCTGGTGAC	
SW-35	ACGCTCGGATGCCACTACAGCAGTTATACGAGAAGAGAAAGCTCAACGAGGTTAGGTAACTAGGACCTCATGGACGTGCTGGTGAC	
SW-36	ACGCTCGGATGCCACTACAGGTAGTGAGTCGAAATGGTTTGCTGCGGTGGGCAGACTCATGGACGTGCTGGTGAC	
SW-37	ACGCTCGGATGCCACTACAGAGCAGGACAGGAGGTGGTTTTGGGTCTAGGGTAGGGGAGGCTCATGGACGTGCTGGTGAC	
SW-38	ATCCAGAGTGACGCAGCACCCGGAGAACATTGAGGATAGGTTGTGGACACGGTGGCTTAGT	

SW-39	ATCCAGAGTGACGCAGCATCTAGACTGTTGAGACTT GGGTTTGTGGACACGGTGGCTTAGT	
SW-40	ATCCAGAGTGACGCAGCAGACTGTTGAGACTGATT AGTTATTATGGACACGGTGGCTTAGT	
SW-41	ATCCAGAGTGACGCAGCATGTAGACTGTTGAGACTT CTGTTTGTGGACACGGTGGCTTAGT	
SW-42	ATCCAGAGTGACGCAGCATATCGGGTTGGTAGGGG TTGGTTGATGGACACGGTGGCTTAGT	
SW-43	ATCCAGAGTGACGCAGCATCTAGACTGTTGAGACT GGTGTTTGTGGACACGGTGGCTTAGT	
SW-44	ATCCAGAGTGACGCAGCATCTAGACTGTTGAGACT GGGGTTGTGGACACGGTGGCTTAGT	
SW-45	ATCCAGAGTGACGCAGCATATAGACTGTTGAGACTT TTGTTTGTGGACACGGTGGCTTAGT	

SW-46	ATCCAGAGTGACGCAGCATGTGGACTGTTGAGACC GCTGTTTGTGGACACGGTGGCTTAGT	
SW-47	ATCCAGAGTGACGCAGCAGCTTGGGATCTCGGTGG CTGTTCTCTGGACACGGTGGCTTAGT	
SW-50	ATCCAGAGTGACGCAGCAGGTTGAAATGATTAATC CGCAATATTCTTATTGGACACGGTGGCTTAGT	

Supplemental Table S2 Truncated sequences of SW-4

Name	Sequences (5' → 3')
SW-4 (1-80)	ACCGACCGTGCTGGACTCATAGGGTTAGGGGCTGCTGGCCAGATATTCAGATGGTAGGGTTACTATGAGCGAGCCTGGCG
SW-4a (6-76)	CCGTGCTGGACTCATAGGGTTAGGGGCTGCTGGCCAGATATTCAGATGGTAGGGTTACTATGAGCGAGCCT
SW-4b (15-68)	ACTCATAGGGTTAGGGGCTGCTGGCCAGATATTCAGATGGTAGGGTTACTATGA
SW-4c (20-61)	TAGGGTTAGGGGCTGCTGGCCAGATATTCAGATGGTAGGGTT
SW-4d (10-73)	GCTGGACTCATAGGGTTAGGGGCTGCTGGCCAGATATTCAGATGGTAGGGTTACTATGAG
SW-4e (22-61)	GGGTTAGGGGCTGCTGGCCAGATATTCAGATGGTAGGGTT