

Supporting Information for “Orthogonal Enzyme Arrays on a DNA Origami Scaffold Bearing Size-Tunable Wells” by Takahiro Yamazaki, Yuichiro Aiba, Takahiro Yamazaki, Jonathan Heddle, Akinori Kuzuya,* Makoto Komiyama*

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Figure S1. Detailed structure of a DNA waffle with 4-turn wells.

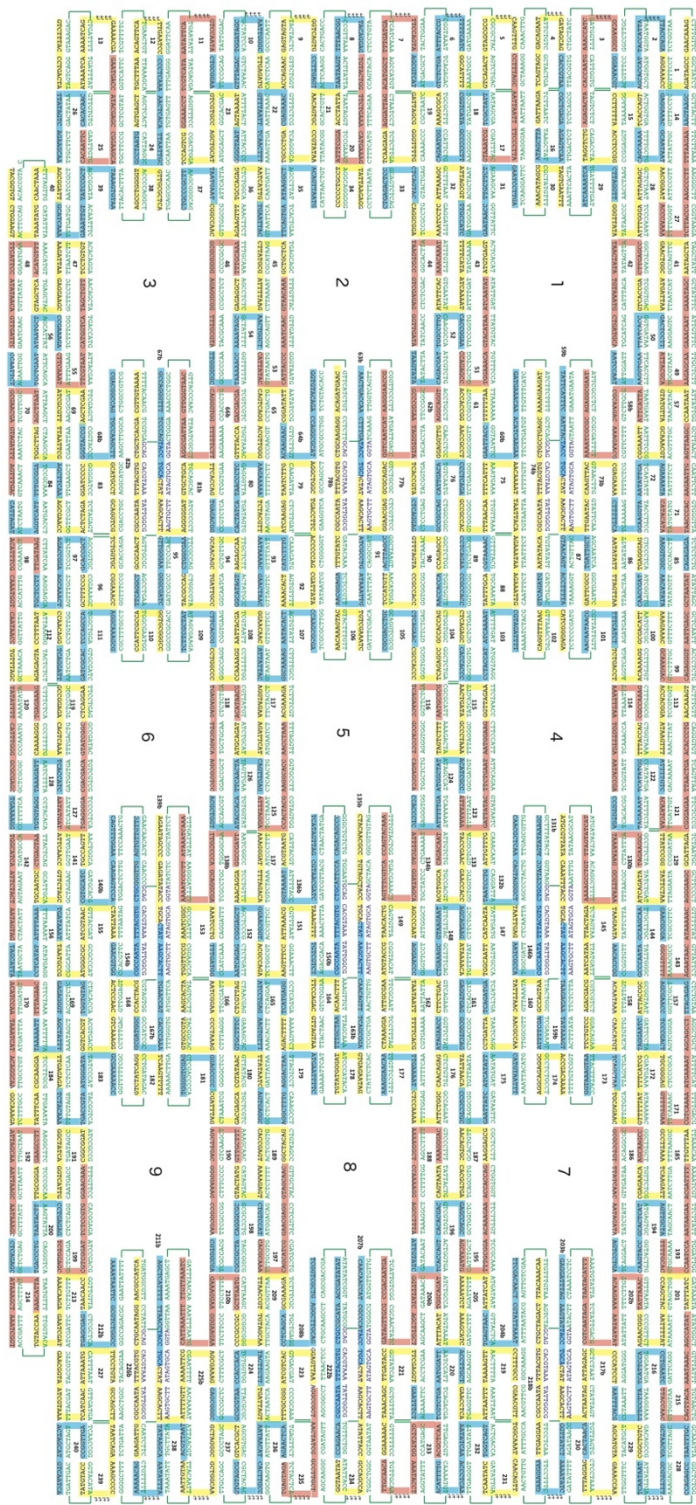


Figure S2. Detailed structure of a DNA waffle with 3-turn wells.

Table S1. Sequence of the staple strands.

Wst#1	AGGAACGAGATGCGAACAAAGTTT	Wst#121	ACAACTACCGGGAGAAATTAACGTACCAGCCTGT
Wst#2	GGAGGCTGACAGCATTGCTCATTTTTACAGGA	Wst#122	CCGTGTGATGAAAGAAATTTGATGCTTCTGTC
Wst#3	AGAGACTACACGAAAGAAACCTATTTTGCAAGCC	Wst#123	ATTAAGAAATFATACCTGTGTAATAAGGAA
Wst#4	GATTAGATACGAGGAGGAAATTTGTAGCAGC	Wst#124	CAACCCCTATTTTGAATGGCATACTAGC
Wst#5	GGCAATTTGTCAAGCTAGCAGGGTTTTCAAGTTTG	Wst#125	ATTAGAGACCCTAGGAGAGCCGCAAGCTAAA
Wst#6	AGCGTATGCTGTGCAATTTACGTTTTTTTGATC	Wst#126	ACCGTGTATGACCACTCAACTACAGTCTGAG
Wst#7	AGGATAGAGGTGGTTTTGAGTTTTTTCCAGTA	Wst#127	ATATGATGAGGGGGAGCGAGGATGTCGG
Wst#8	CCGTGGATTAATAAGTTTTACCGTTTTACAGGAG	Wst#128	TGAAAGGGTTGATGAGTAAGATTTCKGATC
Wst#9	TTCAGTAGTACAGGAGGATGATTTGTCAGTCG	Wst#129	GATTAGATTCGGGTTTCTAAATCAGATA
Wst#10	CTGGGGAAGTTAGCAGTAGATTTTAAITGGGG	Wst#130	TAGAGGCTAAAGTAAAGGGTTAAAMAAAGCCTG
Wst#11	GGAGCCTGGTGTATATAATTTTCTGTCCATA	Wst#131	TGATGCTATCAACAGCCTCA
Wst#12	AGTGGAGCCTGCTTAAACAGTTTTTGGATCC	Wst#132	CACTAGCGCTTAACTGTCG
Wst#13	TTTTGTGTACCCTGATATAATAAATCAGTTTGAAGGA	Wst#133	ATGTTTTACCCAGGACCCACCAGTCCGTCA
Wst#14	AAATGAGCGAGGAAGCAATAATCGAGAAA	Wst#134	CAGACATAATTCAGAGTACGATTTGCGTA
Wst#15	TCAGCAGCCTTTTTAAGCCTCGGTAGGTCGT	Wst#135	CCAGTGAATCAATGATGAG
Wst#16	CCACTAGCCTGTGAGAGGATTAATAAGCA	Wst#136	CCTAGCGTGGTGTAAAT
Wst#17	CCTTAGCAATTAATTTCCCTGTAATCG	Wst#137	ACGTAATGAAAGGCTTTAGACAAACAGGA
Wst#18	TCGCATTCGTGTGATCCCGCTCAATAGTG	Wst#138	GGCCGATTTGCCGACGAGCGAATAAATCCCT
Wst#19	AAAGGCGAGATACCGGGTTTTGTCAAGAGA	Wst#139	ATAATCAACAGTTGGAA
Wst#20	TGTAGTGGTCTGTAAGCATGAAGATTTGCGA	Wst#140	CAAGATTCAGTGTGATC
Wst#21	AGCTTAAGAGTGGCTGGGATTAAGAGCA	Wst#141	TGGCATTTTCAGAGTTTACGTGCGATGTC
Wst#22	CGSAAAGCTTTAATTTCAACTTGGGGATG	Wst#142	CTGTATGATGGATCACTACTAATGATG
Wst#23	AGTAAATGCTGTGGCAGCTGATCCAGTGG	Wst#143	GGCGTTTTAGATAACATAAAGGAGGAAAG
Wst#24	CCCTCAAAAAGCTACATAATCGCGTAATG	Wst#144	AAACCCGCGCCCAATCAAGCAAGAGCGCA
Wst#25	GATGTGCACTAGCAGCGAGACACAATTC	Wst#145	AGAGCGCAATCAATTAAGTAATGAAATTA
Wst#26	CCAGCATTTGATTAAGCGAA	Wst#146	ATGCGGATTCAGTGAACCGCTTAAATTA
Wst#27	AGCCCAATCTACGAGCCCTTTTAAGAA	Wst#147	ATAAAAGTGGAGTCAATCAATATATGAG
Wst#28	GGGTAAATTTGGTAAGAGCAAGCGAAT	Wst#148	AGGAACCCCTGAAGGCGTAAGATGAGGAG
Wst#29	ATCAAAATCACTTAAAGT	Wst#149	ATTGCAAAATGACGCTAAAGCTAGGCGCAAT
Wst#30	AAAGAGGGTGTATGATTT	Wst#150	TBTGCTATTTCAGACAGCCTTACAGC
Wst#31	TTCGCTCAATATCCTGCTCTGAACTCTGA	Wst#151	AGCCGCAAGCTTCCATTAACGTAAAGT
Wst#32	CAGGCGAAATCTGCTAATGAGCATAGCTG	Wst#152	TTTGTGAAATCGAGCGCGAGTGTGAAAGC
Wst#33	CTGAGCACTCCTGATGAC	Wst#153	AGGCATGATGTCCGAAATGCGCACTGTC
Wst#34	CCCTGCTGGTCTTTAAAGG	Wst#154	GAATGGGGTGTGATGTTTTGTCAGATAGC
Wst#35	TAATATCTGATGATGAGTGGTCAAGTAAAGT	Wst#155	TATCGCATGCGAGGGGGATGCTCTATAA
Wst#36	GGGCGACAGAGATTTGGGAGAGATTAATG	Wst#156	TAGCATTACCCTGATATTTTTAAATGATAT
Wst#37	CTGCGCCCTGTGGCTCA	Wst#157	TACAGAGAGGGAACCTCCGACTAGGAACT
Wst#38	AGCGGGCTGTGGCTCA	Wst#158	ATACGGCAATTAACCAAGACTTCTGCTCC
Wst#39	GDAITCAAGAAATGTTATCTCGGTAAGTGTAA	Wst#159	TCAAAATTAAAGCAATAAAGATTTTTCDA
Wst#40	TTTTTGGCTGGTGGGTAATTAATGAAACCGGGAT	Wst#160	TTTGAGAGAGATTTCAAGAGAGGCTGATTA
Wst#41	ANTAGCTGAGACTGGATTAAGTCAAGCAG	Wst#161	TCAATGAGAGCTGAGCGGCTGAGATAGACC
Wst#42	CTTAGCCTACTGATTAAGTCAAAATATTCAC	Wst#162	CTTCCATATAAATTTTTCAAGCTAAAGGA
Wst#43	ATGTSAGTTTTCATCAAAATATATTCAC	Wst#163	CTGTAGCAACAGTTTTCAAGGGTCTGTCAA
Wst#44	AAACAAATTAAGTGGCGTGGAGGGTGTAGTA	Wst#164	ACAACTTTTTCCAGAGTTAGTAAAGATTTT
Wst#45	AGCTGTACTGGTGAAGGATTCGAGAGCTG	Wst#165	CTATGAGCATCTTAATGATGATGATGATTA
Wst#46	TTTGGCAAGCGGGGAGGCGGTTTTGGCTGA	Wst#166	CTCCTGAAATGGGAACCTAAAGTCTCCGTA
Wst#47	TCGTGTAGATTAAGAGGAGGGTAGTCACTCA	Wst#167	CCGAGATTAACACCAATCCAAACGGATGGC
Wst#48	ACATGTTTTCCATCAATACAGTGATCT	Wst#168	CAACTACGAGTCAACGCTCAAAAGGCGCACT
Wst#49	ATTCGCAAGAGCAAGAGCAGTAAAGAGAC	Wst#169	TGGTGTAGAGAGGAGTGGCTTAAAGAAAT
Wst#50	ATTCGCAAGAGCAAGAGCAGTAAAGAGAC	Wst#170	TTTGAACACTCAATAATGATGAGGATA
Wst#51	CCAGAGCGTGGAGCAATAATAAATCAAT	Wst#171	TTTGTAGCACTAAAGGAAATGACAGCCT
Wst#52	TAAGTATACAGAGGATGGCTTCCACCGGAA	Wst#172	TGAGAGAGTTTTTTTATGCTGTCGGAGG
Wst#53	CATTATACATACCAGCAATAACCACTGACAA	Wst#173	GTTAAAGCACTGACTCA
Wst#54	ATTCGCAAGAGCAAGAGCAGTAAAGAGAC	Wst#174	AGGCGAAGAGCTGAGAGAGGTTGATGAA
Wst#55	CCTTCAAAATGATGATGATGATGATGATGAT	Wst#175	CGCCGCTGGTATATGATCATGATCTGAAAT
Wst#56	CCAAATCTGTGATGATGATGATGATGATGAT	Wst#176	CTCCAAATCTGGCAGACAGATTAACA
Wst#57	CCAAATGATGATGATGATGATGATGATGAT	Wst#177	AAAGGCAAAATGAAAT
Wst#58	ATTCATAGCAGAGCAAGAGCAGTAAAGAGCC	Wst#178	TGATGGTGGTGGGATAG
Wst#59	AGCAGAGCAAGAGCAGTAAAGAGCC	Wst#179	AGTGGGAGAGCTTGAAGAGCTTAATAGCTT
Wst#60	ACATCAAGAGCAATGAC	Wst#180	CGATTTAGAGAGAGGCAAGTAACTAATTC
Wst#61	TTTTTAAACCGGAGCAAGGCTGGAGGGT	Wst#181	TGGTGGGAGGAGCCGC
Wst#62	AGGCGAGTCCGCGGAGTGTAGTCAATGAT	Wst#182	GTCTACAGTCAAGTTTT
Wst#63	AGGCGAGGAGGCTGTACAGCA	Wst#183	TCTACAAATGAGGCTTGGGATAGGCGAAACC
Wst#64	CCAGGCGCGTGTAGAG	Wst#184	GGCGAAGAGTTTCAAGAGAGGTTGATGAA
Wst#65	CGAGATTTCCAGAGAGGCTGGGGTTTCCA	Wst#185	TTTTTAAAGCTTAATCAAGATGTAGCAACA
Wst#66	GAGCAGCAGAGGGGTGTTTTCTTAGCGGATAA	Wst#186	AGGAAGCGGCGGCTTTTCAACCAATGATA
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Wst#68	TGGCAAGCTTGGTTCGCG	Wst#188	AAAGGAGCAGCAGCAGCTTCAAGAGAGCCTTA
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Wst#70	AGCTTAATGCGAGGAGAGATGATTGTAAGC	Wst#190	GTTGGCTTGGCTGGGGGAGAGCGGCGGAA
Wst#71	CATATCAATAACCCCAAGATTAAGTAAAGC	Wst#191	CGGCGAGGTGATCAGGCTATGTCGGGGA
Wst#72	TTTTCAGGAGGATTAATAATGAAAGAAATA	Wst#192	GAAAGCCTTTAGCAAAATTAAGCAATAAGC
Wst#73	TAATATCTGATGATGATGATGATGATGATG	Wst#193	CGTGGGAGAGCGTGCAGACACTGCTGCA
Wst#74	ATATAGCTGATGATGATGATGATGATGAT	Wst#194	AGCTCTGACAGAGCAGCGCTCAGTGGTCTCA
Wst#75	CGGCGCACTTCAAAATTTGATGAAAGAT	Wst#195	GAAGAAATGTTGGGAGAGCAAGCAACCCAG
Wst#76	CTCAAGAGCCCGCGAGGATTCACAGCCTCAGA	Wst#196	ATGCTGCTCAACAGCTCAGCAGCAGGCGAGC
Wst#77	AACTTTAGAGCAAGAGCAGCAGCAGCAGCAG	Wst#197	CAGCAACAGCAAGCAGCAGCAGCAGCAGCAG
Wst#78	TTGTTTAAAGAGAGAGGAGGAGGAGGAGGAG	Wst#198	CSTGGGAGAGGAGGAGGAGGAGGAGGAGG
Wst#79	TCTAGTTATAAGAGATTAATCTAGAGCTGGC	Wst#199	TCTGGAGCCTGCTGATCTCCGTGGAGCAAA
Wst#80	TGAGCAGGCACTACTACCTGAGCTCAAGAAA	Wst#200	CTCAGAGCTAGCCTGCTAATGATCTGAGAG
Wst#81	TTTTCCDAGGGGATGAGTGGCCTACCGAG	Wst#201	TATTTCCDAGGGGATGAGTGGCCTACCGAG
Wst#82	GGCAGCCTTCCAGGAGCTTTAAAGAGCAGGGT	Wst#202	TATTAAGCAAGAAAATAATATGCTCAAGA
Wst#83	AGGCAAGCAGCAGTCAAGGAGGAGGAGGAG	Wst#203	GATAGCTTTTTCCAGCAT
Wst#84	CATTAGATGAGGATTTTGGGGAGCCTTCAA	Wst#204	GATTAATAATAGGTAAC
Wst#85	CAGAGAGAAAAGGTTGGCAGATAATCAACCGAT	Wst#205	ATTATATAAATGTAAGGATCATAGAT
Wst#86	TGAGGGAGAGATATTTAGTAAATGTCGCG	Wst#206	TGGCAGATGGTTTATACAGCTGGCTGATGTTGG
Wst#87	TGATGTGTGACAGGAGGCTTTAAGTCAGATG	Wst#207	CGCACAGTATGGCTGGCTG
Wst#88	TATTTAGAGATAAAAGGATGATTTATGCGA	Wst#208	AGGCTTCGACCTGTAGCA
Wst#89	GSTAAACCCCTCAAGGAGCCAGCAGCAAGCAGA	Wst#209	GCGCAAGATTTAGCCTGTAGCAACCGGCGG
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Wst#91	ACTTAGCATCCDCTCAATAATTAAGGAGAGA	Wst#211	TGTAAATCAAAATATTC
Wst#92	TGACTTTAGCCCAAGCAGTAAATGAAGAGACT	Wst#212	GGCTGTGTGTGGCAGCAG
Wst#93	CATCTTTGATAAAGCAAGCAACGAGCAGATG	Wst#213	TTAGCAGCAACAGAGATGCAATTTTTGTACCAA
Wst#94	AKAGAGAGCAAGCAGTATGTCCTAGCAGCAG	Wst#214	AAACATATAAGCACTAAATCGGTTTT
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Wst#97	CCAGCGCTAGAGGGAGAGCAGTCCGCTGCT	Wst#217	AGAGCTTAGTATGAGGATGAGGAGCGCTGAT
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Wst#113	AKCAAAGTACACAGCAATGTTTTTACGAG	Wst#233	GCTCAAGCTCATGGAATACCTTTTTTGCAGCA
Wst#114	GGTAAAGAAATTAATGTTTTGAAATACGCA	Wst#234	ATCGCCCAATATAAGCAGCAGCCTTTTGTAAAT
Wst#115	DGTTGAAATCAAGAGAGGCAAGGATGTTT	Wst#235	AGGCGCCTAACACTGCGCTGTTTTTGTAGTAGA
Wst#116	ATGCGGCTGATGAGGAGGCTTCCAGGAGTCA	Wst#236	AGAGCTAAAGTAAGCAAGTCTGTTTGTGAGG
Wst#117	ACGAAAAGGATGAAGGATCAATGAGCAT	Wst#237	GTACAGCTGTAGGGCTGTGCAATTTAATGTA
Wst#118	ACATAAGCTGAGAGAGTTCAGAGAGGGGCTC	Wst#238	AGCTAATAATAGCAAAATTTATTTAAAGAG
Wst#119	CTCAGAGAGCGAGAGCACTCAAGAAAGGG	Wst#239	CGGAGCTTAAACGAAAACCCCTTTTTATAGCC
Wst#120	TGAAAAGATTAATTTCAATTTGGGGCGGAGC	Wst#240	CGGGTGAAGTACATGCAATGATTT
Strand 1	TATTGGCGAAAGTCTAGTGGAGGTGACGACGCAAAA		
Strand 2	AATAATGGGAGCAGTACGCTGTGCTGCTGTGACTTGGCTTCC		
	AAAGTGTGTTTATGATGAGTGGAGTCGTA		

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Staples for 2-µm wells

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Table S2. Counts for Figure 2b.

	2-turns	3-turns	4-turns
No SA	4	11	4
1 x SA	130	196	112
2 x SA	6	73	164
Sum	140	280	280

Table S3. Counts for Figure 2d.

	2-turns	3-turns	4-turns
No IgG	66	136	196
1 x IgG	239	470	410
2 x IgG	0	4	4
Sum	305	610	610