

	<i>Subpool/Pool</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>						
A		0.1	0.1	0.1	0.1						
B		0.1	0.15	0.25	0.4						
C		0.15	0.25	0.4	0.1						
D		0.25	0.4	0.1	0.15						
E		0.4	0.1	0.15	0.25						
Control	Subpool	original Genbank	Source	Length	GC content	MW	actual concentration (nmol/ul)				
							12	13	14	15	
ERCC-00012	A	DQ883670	synthesis based on artificial design	994	0.51	320,263	2.07E-05	2.07E-05	2.07E-05	2.07E-05	
ERCC-00003	A	DQ516784	Methanocaldococcus jannaschii	1023	0.33	327,530	5.22E-06	5.22E-06	5.22E-06	5.22E-06	
ERCC-00170	A	DQ516773	Methanocaldococcus jannaschii	1024	0.34	330,808	2.58E-06	2.58E-06	2.58E-06	2.58E-06	
ERCC-00079	A	DQ883652	synthesis based on artificial design	644	0.49	207,757	1.29E-06	1.29E-06	1.29E-06	1.29E-06	
ERCC-00025	A	DQ883689	synthesis based on artificial design	1994	0.5	640,941	6.47E-07	6.47E-07	6.47E-07	6.47E-07	
ERCC-00035	A	DQ459413	synthesis based on artificial design	1130	0.51	364,378	3.24E-07	3.24E-07	3.24E-07	3.24E-07	
ERCC-00043	A	DQ516787	Methanocaldococcus jannaschii	1023	0.33	330,122	1.61E-07	1.61E-07	1.61E-07	1.61E-07	
ERCC-00084	A	DQ883682	synthesis based on artificial design	994	0.5	320,445	8.08E-08	8.08E-08	8.08E-08	8.08E-08	
ERCC-00060	A	DQ516763	Methanocaldococcus jannaschii	523	0.31	168,195	4.05E-08	4.05E-08	4.05E-08	4.05E-08	
ERCC-00071	A	DQ883654	synthesis based on artificial design	642	0.48	206,115	2.03E-08	2.03E-08	2.03E-08	2.03E-08	
ERCC-00077	A	DQ516742	Methanocaldococcus jannaschii	273	0.33	87,694	1.01E-08	1.01E-08	1.01E-08	1.01E-08	
ERCC-00053	A	DQ516785	Methanocaldococcus jannaschii	1023	0.31	327,971	5.09E-09	5.09E-09	5.09E-09	5.09E-09	
ERCC-00096	A	DQ459429	synthesis based on artificial design	1107	0.51	356,565	2.53E-09	2.53E-09	2.53E-09	2.53E-09	
ERCC-00108	A	DQ668365	synthesis based on Bacillus subtilis	1022	0.49	328,424	1.27E-09	1.27E-09	1.27E-09	1.27E-09	
ERCC-00126	A	DQ459427	synthesis based on artificial design	1119	0.51	359,790	3.17E-10	3.17E-10	3.17E-10	3.17E-10	
ERCC-00136	A	EF011063	synthesis based on Bacillus subtilis	1033	0.42	333,363	1.57E-10	1.57E-10	1.57E-10	1.57E-10	
ERCC-00144	A	DQ854995	synthesis based on artificial design	538	0.46	173,404	7.90E-11	7.90E-11	7.90E-11	7.90E-11	
ERCC-00154	A	DQ854997	synthesis based on artificial design	537	0.5	173,317	3.94E-11	3.94E-11	3.94E-11	3.94E-11	
ERCC-00162	A	DQ516750	Methanocaldococcus jannaschii	523	0.36	166,409	2.00E-11	2.00E-11	2.00E-11	2.00E-11	
ERCC-00002	B	DQ459430	synthesis based on artificial design	1061	0.51	341,162	2.07E-05	3.11E-05	5.19E-05	8.30E-05	
ERCC-00013	B	EF011062	synthesis based on Bacillus subtilis	808	0.43	261,415	5.16E-06	7.73E-06	1.29E-05	2.06E-05	
ERCC-00061	B	DQ459426	synthesis based on artificial design	1136	0.5	366,454	2.58E-06	3.87E-06	6.47E-06	1.03E-05	
ERCC-00019	B	DQ883651	synthesis based on artificial design	644	0.49	207,543	1.29E-06	1.94E-06	3.23E-06	5.16E-06	
ERCC-00028	B	DQ459419	synthesis based on artificial design	1130	0.51	364,285	6.45E-07	9.69E-07	1.62E-06	2.59E-06	
ERCC-00039	B	DQ883656	synthesis based on artificial design	740	0.49	238,322	3.24E-07	4.87E-07	8.10E-07	1.29E-06	
ERCC-00044	B	DQ459424	synthesis based on artificial design	1156	0.5	372,347	1.62E-07	2.43E-07	4.06E-07	6.47E-07	
ERCC-00054	B	DQ516731	Methanocaldococcus jannaschii	274	0.37	88,966	8.03E-08	1.20E-07	2.00E-07	3.20E-07	
ERCC-00171	B	DQ854994	synthesis based on artificial design	505	0.48	163,022	4.04E-08	6.05E-08	1.01E-07	1.61E-07	
ERCC-00073	B	DQ668358	synthesis based on Bacillus subtilis	603	0.47	193,958	2.03E-08	3.04E-08	5.06E-08	8.09E-08	
ERCC-00078	B	DQ883673	synthesis based on artificial design	993	0.5	320,094	1.01E-08	1.52E-08	2.52E-08	4.03E-08	
ERCC-00085	B	DQ883669	synthesis based on artificial design	844	0.49	271,323	5.05E-09	7.59E-09	1.26E-08	2.02E-08	
ERCC-00097	B	DQ516758	Methanocaldococcus jannaschii	523	0.36	167,189	2.55E-09	3.82E-09	6.34E-09	1.02E-08	
ERCC-00109	B	DQ854998	synthesis based on artificial design	536	0.46	172,925	1.26E-09	1.89E-09	3.15E-09	5.04E-09	
ERCC-00116	B	DQ668367	synthesis based on Bacillus subtilis	1991	0.5	639,986	6.33E-10	9.50E-10	1.58E-09	2.53E-09	
ERCC-00128	B	DQ459428	synthesis based on artificial design	1133	0.48	364,405	3.16E-10	4.75E-10	7.90E-10	1.27E-09	
ERCC-00137	B	DQ855000	synthesis based on artificial design	537	0.5	173,218	1.58E-10	2.37E-10	3.94E-10	6.29E-10	
ERCC-00145	B	DQ875386	synthesis based on Bacillus subtilis	1042	0.44	336,179	7.88E-11	1.18E-10	1.97E-10	3.15E-10	
ERCC-00156	B	DQ883643	synthesis based on artificial design	494	0.49	159,199	3.94E-11	5.92E-11	9.86E-11	1.58E-10	
ERCC-00163	B	DQ668359	synthesis based on Bacillus subtilis	543	0.47	174,949	1.97E-11	2.96E-11	4.93E-11	7.89E-11	
ERCC-00018	C	EF011065	synthesis based on Bacillus subtilis	1026	0.43	330,493	3.39E-05	5.66E-05	9.02E-05	2.26E-05	
ERCC-00014	C	DQ875385	Methanocaldococcus jannaschii	1957	0.44	631,409	8.46E-06	1.41E-05	2.25E-05	5.64E-06	
ERCC-00022	C	DQ855004	synthesis based on artificial design	751	0.47	241,178	2.12E-06	3.54E-06	5.68E-06	1.41E-06	
ERCC-00051	C	DQ516740	Methanocaldococcus jannaschii	274	0.34	88,356	1.06E-06	1.77E-06	2.82E-06	7.05E-07	
ERCC-00040	C	DQ883661	synthesis based on artificial design	744	0.53	239,738	5.30E-07	8.80E-07	1.41E-06	3.52E-07	
ERCC-00046	C	DQ516748	Methanocaldococcus jannaschii	522	0.35	168,087	2.65E-07	4.41E-07	7.08E-07	1.77E-07	
ERCC-00062	C	DQ516786	Methanocaldococcus jannaschii	1023	0.31	328,505	1.33E-07	2.21E-07	3.53E-07	8.86E-08	

ERCC-00057	C	DQ668366	synthesis based on <i>Bacillus subtilis</i>	1021	0.5	328,287	6.64E-08	1.11E-07	1.77E-07	4.42E-08	
ERCC-00074	C	DQ516754	<i>Methanocaldococcus jannaschii</i>	522	0.35	167,539	3.32E-08	5.53E-08	8.83E-08	2.21E-08	
ERCC-00004	C	DQ516752	<i>Methanocaldococcus jannaschii</i>	523	0.34	167,216	1.67E-08	2.77E-08	4.44E-08	1.11E-08	
ERCC-00086	C	DQ516791	<i>Methanocaldococcus jannaschii</i>	1020	0.32	328,632	8.28E-09	1.38E-08	2.20E-08	5.51E-09	
ERCC-00098	C	DQ459415	synthesis based on artificial design	1143	0.51	368,970	4.12E-09	6.88E-09	1.10E-08	2.74E-09	
ERCC-00111	C	DQ883685	synthesis based on artificial design	994	0.47	319,359	2.07E-09	3.44E-09	5.51E-09	1.38E-09	
ERCC-00117	C	DQ459412	synthesis based on artificial design	1136	0.51	365,757	1.03E-09	1.72E-09	2.76E-09	6.89E-10	
ERCC-00130	C	EF011072	synthesis based on <i>Bacillus subtilis</i>	1059	0.46	342,268	5.14E-10	8.59E-10	1.37E-09	3.45E-10	
ERCC-00138	C	DQ516777	<i>Methanocaldococcus jannaschii</i>	1022	0.33	231,112	3.68E-10	6.14E-10	9.82E-10	2.45E-10	
ERCC-00147	C	DQ516790	<i>Methanocaldococcus jannaschii</i>	1023	0.36	331,125	1.29E-10	2.14E-10	3.44E-10	8.58E-11	
ERCC-00157	C	DQ839618	synthesis based on artificial design	1019	0.5	328,635	6.45E-11	1.07E-10	1.72E-10	4.29E-11	
ERCC-00164	C	DQ516779	<i>Methanocaldococcus jannaschii</i>	1022	0.37	324,758	3.26E-11	5.45E-11	8.74E-11	2.18E-11	
ERCC-00016	D	DQ883664	synthesis based on artificial design	844	0.48	271,684	5.63E-05	9.05E-05	2.26E-05	3.39E-05	
ERCC-00023	D	DQ516744	<i>Methanocaldococcus jannaschii</i>	273	0.31	88,186	1.41E-05	2.26E-05	5.62E-06	8.45E-06	
ERCC-00007	D	EF011068	synthesis based on <i>Bacillus subtilis</i>	1135	0.45	362,636	3.56E-06	5.68E-06	1.42E-06	2.13E-06	
ERCC-00033	D	DQ516796	<i>Methanocaldococcus jannaschii</i>	2022	0.33	651,534	1.77E-06	2.82E-06	7.06E-07	1.06E-06	
ERCC-00041	D	EF011069	synthesis based on <i>Bacillus subtilis</i>	1123	0.45	363,007	8.79E-07	1.40E-06	3.53E-07	5.26E-07	
ERCC-00048	D	DQ883671	synthesis based on artificial design	992	0.48	320,110	4.40E-07	7.03E-07	1.76E-07	2.64E-07	
ERCC-00067	D	DQ883653	synthesis based on artificial design	644	0.47	207,451	2.20E-07	3.53E-07	8.82E-08	1.32E-07	
ERCC-00058	D	DQ459418	synthesis based on artificial design	1136	0.5	366,548	1.10E-07	1.76E-07	4.39E-08	6.60E-08	
ERCC-00075	D	DQ516778	<i>Methanocaldococcus jannaschii</i>	1023	0.36	325,442	5.59E-08	8.94E-08	2.23E-08	3.35E-08	
ERCC-00081	D	DQ854991	synthesis based on artificial design	534	0.49	172,323	2.75E-08	4.40E-08	1.10E-08	1.65E-08	
ERCC-00092	D	DQ459425	synthesis based on artificial design	1124	0.5	361,716	1.38E-08	2.21E-08	5.53E-09	8.27E-09	
ERCC-00112	D	DQ459422	synthesis based on artificial design	1136	0.47	364,932	6.91E-09	1.10E-08	2.77E-09	4.14E-09	
ERCC-00099	D	DQ875387	synthesis based on <i>Bacillus subtilis</i>	1350	0.41	434,408	3.45E-09	5.52E-09	1.38E-09	2.07E-09	
ERCC-00120	D	DQ854992	synthesis based on artificial design	536	0.48	172,605	1.72E-09	2.76E-09	6.89E-10	1.03E-09	
ERCC-00131	D	DQ855003	synthesis based on artificial design	771	0.47	248,276	8.62E-10	1.38E-09	3.45E-10	5.16E-10	
ERCC-00142	D	DQ883646	synthesis based on artificial design	493	0.5	159,090	4.30E-10	6.85E-10	1.72E-10	2.58E-10	
ERCC-00148	D	DQ883642	synthesis based on artificial design	494	0.49	159,911	2.14E-10	3.43E-10	8.57E-11	1.29E-10	
ERCC-00158	D	DQ516795	<i>Methanocaldococcus jannaschii</i>	1021	0.34	328,797	1.08E-10	1.72E-10	4.32E-11	6.45E-11	
ERCC-00165	D	DQ668363	synthesis based on <i>Bacillus subtilis</i>	872	0.5	279,788	5.40E-11	8.65E-11	2.16E-11	3.24E-11	
ERCC-00024	E	DQ854993	synthesis based on artificial design	536	0.46	173,128	9.01E-05	2.25E-05	3.38E-05	5.63E-05	
ERCC-00017	E	DQ459420	synthesis based on artificial design	1136	0.51	367,042	2.25E-05	5.64E-06	8.45E-06	1.41E-05	
ERCC-00009	E	DQ668364	synthesis based on <i>Bacillus subtilis</i>	984	0.47	316,584	5.65E-06	1.41E-06	2.12E-06	3.54E-06	
ERCC-00034	E	DQ855001	synthesis based on artificial design	1019	0.49	328,139	2.82E-06	7.07E-07	1.06E-06	1.76E-06	
ERCC-00042	E	DQ516783	<i>Methanocaldococcus jannaschii</i>	1023	0.39	325,750	1.43E-06	3.56E-07	5.34E-07	8.93E-07	
ERCC-00031	E	DQ459431	synthesis based on artificial design	1138	0.48	365,732	7.08E-07	1.77E-07	2.65E-07	4.43E-07	
ERCC-00059	E	DQ668356	synthesis based on <i>Bacillus subtilis</i>	525	0.48	168,750	3.54E-07	8.83E-08	1.33E-07	2.21E-07	
ERCC-00069	E	DQ459421	synthesis based on artificial design	1137	0.5	366,664	1.76E-07	4.42E-08	6.60E-08	1.10E-07	
ERCC-00076	E	DQ883650	synthesis based on artificial design	642	0.5	206,436	8.82E-08	2.21E-08	3.31E-08	5.52E-08	
ERCC-00083	E	DQ516780	<i>Methanocaldococcus jannaschii</i>	1023	0.35	325,668	4.45E-08	1.11E-08	1.67E-08	2.79E-08	
ERCC-00095	E	DQ516759	<i>Methanocaldococcus jannaschii</i>	521	0.37	166,307	2.22E-08	5.56E-09	8.36E-09	1.39E-08	
ERCC-00104	E	DQ516815	<i>Methanocaldococcus jannaschii</i>	2022	0.33	647,370	1.11E-08	2.78E-09	4.16E-09	6.94E-09	
ERCC-00168	E	DQ516776	<i>Methanocaldococcus jannaschii</i>	1024	0.34	326,399	5.58E-09	1.39E-09	2.09E-09	3.49E-09	
ERCC-00113	E	DQ883663	synthesis based on artificial design	840	0.5	270,697	2.76E-09	6.87E-10	1.03E-09	1.72E-09	
ERCC-00134	E	DQ516739	<i>Methanocaldococcus jannaschii</i>	274	0.31	88,594	1.38E-09	3.43E-10	5.15E-10	8.58E-10	
ERCC-00143	E	DQ668362	synthesis based on <i>Bacillus subtilis</i>	784	0.49	251,705	6.91E-10	1.73E-10	2.59E-10	4.33E-10	
ERCC-00150	E	DQ883659	synthesis based on artificial design	743	0.47	239,128	3.45E-10	8.61E-11	1.29E-10	2.15E-10	
ERCC-00160	E	DQ883658	synthesis based on artificial design	743	0.46	239,437	1.72E-10	4.30E-11	6.47E-11	1.08E-10	
ERCC-00123	E	DQ516782	<i>Methanocaldococcus jannaschii</i>	1022	0.36	324,911	8.74E-11	2.18E-11	3.26E-11	5.45E-11	