

Quick-16S™ Full-Length Library Prep Kit



Catalog Nos. D6450-PS1, D6450-PS2, D6450-PS3, D6450-PS4
Guide for Preparing More than 96 Samples

Notice

One Quick-16S™ Full-Length Library Prep Kit (96 rxns) can support the preparation of up to 96 samples. To prepare more than 96 samples (up to 384 samples), multiple kits with different, unique Index Primer Sets must be ordered as described in the section below.

Ordering Guidelines

The table below provides ordering information for customers who would like to prepare more than 96 samples with the Quick-16S™ Full-Length Library Prep Kit.

Anticipated Number of DNA Samples to Prepare	Recommended Cat #s to Order	Included Primer Sets
1-96	D6450-PS1	Primer Set 1
97-192	D6450-PS1 & D6450-PS2	Primer Sets 1 & 2
193-288	D6450-PS1, D6450-PS2, & D6450-PS3	Primer Sets 1, 2, & 3
289-384	D6450-PS1, D6450-PS2, D6450-PS3, & D6450-PS4	Primer Sets 1, 2, 3, & 4

Protocol

For each group of up to 96 samples, use a single Quick-16S™ Full-Length Library Prep Kit with the appropriate primer set as described in the ordering guidelines above. Samples 1-96 are assigned to Plate 1, samples 97-192 to Plate 2, samples 193-288 to Plate 3, and samples 289-384 to Plate 4.

1. Determine whether your samples are ideal or non-ideal according to **Appendix A** of the Quick-16S™ Plus Full-Length Library Prep Kit Instruction Manual (found on the D6450 Product Page at www.zymoresearch.com). If necessary, pick an appropriate workflow for processing non-ideal samples as indicated by the appendix. It may be helpful to batch ideal and non-ideal samples separately to simplify processing.
2. Use the diagrams on pages 2-3 below as a guide for how to assemble the PCR plates in **Section 1** using the provided Quick-16S Full-Length Premix Plates & sample DNA.
3. Follow the Quick-16S™ Plus Full-Length Library Prep Kit Instruction Manual as written for all remaining processing instructions. Pay close attention to any footnotes as they often clarify relevant protocol deviations.

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Plate 1, Samples 1-96

Full-Length Primer Set 1: Forward Barcodes 1-12 and Reverse Barcodes 13-20

		Fwd_01	Fwd_02	Fwd_03	Fwd_04	Fwd_05	Fwd_06	Fwd_07	Fwd_08	Fwd_09	Fwd_10	Fwd_11	Fwd_12
		1	2	3	4	5	6	7	8	9	10	11	12
Rev_13	A	S1	S9	S17	S25	S33	S41	S49	S57	S65	S73	S81	S89
Rev_14	B	S2	S10	S18	S26	S34	S42	S50	S58	S66	S74	S82	S90
Rev_15	C	S3	S11	S19	S27	S35	S43	S51	S59	S67	S75	S83	S91
Rev_16	D	S4	S12	S20	S28	S36	S44	S52	S60	S68	S76	S84	S92
Rev_17	E	S5	S13	S21	S29	S37	S45	S53	S61	S69	S77	S85	S93
Rev_18	F	S6	S14	S22	S30	S38	S46	S54	S62	S70	S78	S86	S94
Rev_19	G	S7	S15	S23	S31	S39	S47	S55	S63	S71	S79	S87	POS*
Rev_20	H	S8	S16	S24	S32	S40	S48	S56	S64	S72	S80	S88	NEG**

* POS: The ZymoBIOMICS™ Microbial Community DNA Standard (included in the kit) as a positive control.

** NEG: A no template control as a negative control.

Plate 2, Samples 97-192

Full-Length Primer Set 2: Forward Barcodes 1-12 and Reverse Barcodes 21-28

		Fwd_01	Fwd_02	Fwd_03	Fwd_04	Fwd_05	Fwd_06	Fwd_07	Fwd_08	Fwd_09	Fwd_10	Fwd_11	Fwd_12
		1	2	3	4	5	6	7	8	9	10	11	12
Rev_21	A	S97	S105	S113	S121	S129	S137	S145	S153	S161	S169	S177	S185
Rev_22	B	S98	S106	S114	S122	S130	S138	S146	S154	S162	S170	S178	S186
Rev_23	C	S99	S107	S115	S123	S131	S139	S147	S155	S163	S171	S179	S187
Rev_24	D	S100	S108	S116	S124	S132	S140	S148	S156	S164	S172	S180	S188
Rev_25	E	S101	S109	S117	S125	S133	S141	S149	S157	S165	S173	S181	S189
Rev_26	F	S102	S110	S118	S126	S134	S142	S150	S158	S166	S174	S182	S190
Rev_27	G	S103	S111	S119	S127	S135	S143	S151	S159	S167	S175	S183	POS*
Rev_28	H	S104	S112	S120	S128	S136	S144	S152	S160	S168	S176	S184	NEG**

* POS: The ZymoBIOMICS™ Microbial Community DNA Standard (included in the kit) as a positive control.

** NEG: A no template control as a negative control.

(Continued on next page.)

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Plate 3, Samples 193-288

Full-Length Primer Set 3: Forward Barcodes 1-12 and Reverse Barcodes 29-36

		Fwd_01	Fwd_02	Fwd_03	Fwd_04	Fwd_05	Fwd_06	Fwd_07	Fwd_08	Fwd_09	Fwd_10	Fwd_11	Fwd_12
		1	2	3	4	5	6	7	8	9	10	11	12
Rev_29	A	S193	S201	S209	S217	S225	S233	S241	S249	S257	S265	S273	S281
Rev_30	B	S194	S202	S210	S218	S226	S234	S242	S250	S258	S266	S274	S282
Rev_31	C	S195	S203	S211	S219	S227	S235	S243	S251	S259	S267	S275	S283
Rev_32	D	S196	S204	S212	S220	S228	S236	S244	S252	S260	S268	S276	S284
Rev_33	E	S197	S205	S213	S221	S229	S237	S245	S253	S261	S269	S277	S285
Rev_34	F	S198	S206	S214	S222	S230	S238	S246	S254	S262	S270	S278	S286
Rev_35	G	S199	S207	S215	S223	S231	S239	S247	S255	S263	S271	S279	POS*
Rev_36	H	S200	S208	S216	S224	S232	S240	S248	S256	S264	S272	S280	NEG**

* POS: The ZymoBIOMICS™ Microbial Community DNA Standard (included in the kit) as a positive control.

** NEG: A no template control as a negative control.

Plate 4, Samples 289-384

Full-Length Primer Set 4: Forward Barcodes 1-12 and Reverse Barcodes 37-44

		Fwd_01	Fwd_02	Fwd_03	Fwd_04	Fwd_05	Fwd_06	Fwd_07	Fwd_08	Fwd_09	Fwd_10	Fwd_11	Fwd_12
		1	2	3	4	5	6	7	8	9	10	11	12
Rev_37	A	S289	S297	S305	S313	S321	S329	S337	S345	S353	S361	S369	S377
Rev_38	B	S290	S298	S306	S314	S322	S330	S338	S346	S354	S362	S370	S378
Rev_39	C	S291	S299	S307	S315	S323	S331	S339	S347	S355	S363	S371	S379
Rev_40	D	S292	S300	S308	S316	S324	S332	S340	S348	S356	S364	S372	S380
Rev_41	E	S293	S301	S309	S317	S325	S333	S341	S349	S357	S365	S373	S381
Rev_42	F	S294	S302	S310	S318	S326	S334	S342	S350	S358	S366	S374	S382
Rev_43	G	S295	S303	S311	S319	S327	S335	S343	S351	S359	S367	S375	POS*
Rev_44	H	S296	S304	S312	S320	S328	S336	S344	S352	S360	S368	S376	NEG**

* POS: The ZymoBIOMICS™ Microbial Community DNA Standard (included in the kit) as a positive control.

** NEG: A no template control as a negative control.