NGS Unique Dual Barcode Primer Kit for MGI, Set1 (Plate, 1-96)

Cat.No.: HYD325

Product Description

NGS Unique Dual Barcode Primer Kit for MGI is a dedicated reagent kit designed for DNA library construction on the MGI high-throughput sequencing platform. It employs a dual-end adapter strategy and includes UDB Adapters and UDB Primers used in next-generation sequencing (NGS) library preparation. The kit is divided into four Sets (Set 1–4). Each Set contains 96 uniquely dual-barcoded UDB Primers, enabling the construction of up to 384 libraries with unique dual-index combinations when used together. This kit is compatible with MGI-compatible library preparation kits. All reagents provided in this kit have undergone rigorous quality control and functional validation to ensure maximum stability and reproducibility during library construction.

Components

Cat.No.	Components	96×1 T	96×2 T
HYD325	UDB Adapter	480 μL	960 μL
	UDB Primer 001-096	5 μL each	10 μL each
HYD326	UDB Adapter	480 μL	960 μL
	UDB Primer 097-192	5 μL each	10 μL each
HYD327	UDB Adapter	480 μL	960 μL
	UDB Primer 193-288	5 μL each	10 μL each
HYD328	UDB Adapter	480 μL	960 μL
	UDB Primer 289-384	5 μL each	10 μL each

Storage

Store at -25 ~ -15℃ for 2 years.

Notes

1. For your safety and health, wear a lab coat and disposable gloves during operation.
2. The concentration of UDB Adapter in this kit is 10 μM. The amount of adapter required per library should be adjusted according to the specific library prep kit used and the input amount of starting template.
3. The UDB Adapters provided are universal short adapters and require PCR amplification to generate complete sequencing libraries. The UDB Primers carry unique barcode sequences for sample identification during high-throughput sequencing. The concentration of UDB Primers is 10 μM.
4. The kit is divided into 4 Sets, each containing 96 uniquely dual-barcoded UDB Primers, allowing the construction of 384 uniquely dual-indexed libraries in total.
5. Do not heat the adapters. Allow them to thaw slowly at room temperature. The laboratory temperature should ideally be maintained at 20–25°C. Avoid repeated freeze-thaw cycles; aliquoting is recommended. Short-term storage at 4°C is acceptable.
6. The structure of sequencing libraries constructed using the NGS Unique Dual Barcode Primer Kit for MGI is as follows:



7. This product is for research use only.

Sequence information

1. UDB Adapter for MGI

5′-/5Phos/ AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCAG -3′

5′-TTGTCTTCCTAAGCAACTCCTTGGCTCACAGAACGACATGGCTACGATCCGACTT -3′

2. Barcode 2 Primer for MGI

5′-/5Phos/CTCTCAGTACGTCAGCAGTT[Barcode 2]CAACTCCTTGGCTCACAGAAC-3′

3. Barcode 1 Primer for MGI

5′-GCATGGCGACCTTATCAG[Barcode 1]TTGTCTTCCTAAGACCGCTTGG-3′

[Barcode 2] represents the 10 bp Barcode 2 sequence and [Barcode 1] represents the 10 bp Barcode 1 sequence.

Set 1

	1	2	3	4	5	6	7	8	9	10	11	12
A	**01**	**09**	**17**	**25**	**33**	**41**	**49**	**57**	**65**	**73**	**81**	**89**
B	02	10	18	26	34	42	50	58	66	74	82	90
C	03	11	19	27	35	43	51	59	67	75	83	91
D	04	12	20	28	36	44	52	60	68	76	84	92
E	05	13	21	29	37	45	53	61	69	77	85	93
F	06	14	22	30	38	46	54	62	70	78	86	94
G	07	15	23	31	39	47	55	63	71	79	87	95
H	08	16	24	32	40	48	56	64	72	80	88	96

Set 2

	1	2	3	4	5	6	7	8	9	10	11	12
A	97	105	113	121	129	137	145	153	161	169	177	185
B	98	106	114	122	130	138	146	154	162	170	178	186
C	99	107	115	123	131	139	147	155	163	171	179	187
D	100	108	116	124	132	140	148	156	164	172	180	188
E	101	109	117	125	133	141	149	157	165	173	181	189
F	102	110	118	126	134	142	150	158	166	174	182	190
G	103	111	119	127	135	143	151	159	167	175	183	191
H	104	112	120	128	136	144	152	160	168	176	184	192

Set 3

	1	2	3	4	5	6	7	8	9	10	11	12
A	193	201	209	217	225	233	241	249	257	265	273	281
B	194	202	210	218	226	234	242	250	258	266	274	282
C	195	203	211	219	227	235	243	251	259	267	275	283
D	196	204	212	220	228	236	244	252	260	268	276	284
E	197	205	213	221	229	237	245	253	261	269	277	285
F	198	206	214	222	230	238	246	254	262	270	278	286
G	199	207	215	223	231	239	247	255	263	271	279	287
H	200	208	216	224	232	240	248	256	264	272	280	288

Set 4

	1	2	3	4	5	6	7	8	9	10	11	12
A	289	297	305	313	321	329	337	345	353	361	369	377
B	290	298	306	314	322	330	338	346	354	362	370	378
C	291	299	307	315	323	331	339	347	355	363	371	379
D	292	300	308	316	324	332	340	348	356	364	372	380
E	293	301	309	317	325	333	341	349	357	365	373	381
F	294	302	310	318	326	334	342	350	358	366	374	382
G	295	303	311	319	327	335	343	351	359	367	375	383
H	296	304	312	320	328	336	344	352	360	368	376	384

Note: the Index information corresponding to each board position can be directly obtained by contacting the sales staff or other staff of the company.