

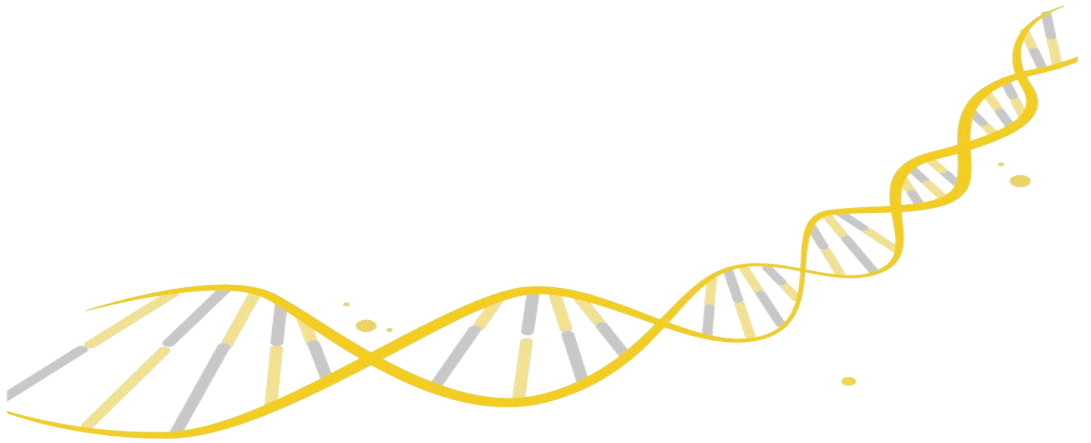
Full DNA Adapter Kit for MGI

RK21676 MiniSet (8 indices)

RK21677 MidiSet (24 indices)

RK21678 Set_A (48 indices)

RK21679 Set_B (48 indices)



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1. Introduction

ABclonal Full DNA Adapter Kit for MGI is ideally suited for sample preparation for next-generation sequencing on the MGI platform. ABclonal Full DNA Adapter Kit for MGI box contains full-length adapters. MiniSet, MidiSet, Set_A and Set_B contains 8, 24, 48 and 48 indices, respectively. The kit can not be used to perform PCR-Free DNA lib preparation and 2-3 cycles of amplification are necessary.

2. Components

	Components	Size
○	MGI Full Adapter	5 µL each

The specific information is shown in the following figure:

	1	2	3	4	5	6	7	8	9	10	11	12
A	01	41	57	65	73	81	89	97	121	25	33	49
B	02	42	58	66	74	82	90	98	122	26	34	50
C	03	43	59	67	75	83	91	99	123	117	35	51
D	04	44	60	68	76	84	92	100	124	28	36	52
E	13	45	61	69	77	85	93	101	125	29	37	53
F	14	46	62	70	78	86	94	102	126	30	38	116
G	15	47	63	71	79	87	95	103	127	114	39	55
H	16	48	64	72	80	88	96	104	128	32	115	56

Notes:

RK21676 contains Adapters in line 1;

RK21677 contains Adapters in line 1, 2, 3;

RK21678 contains Adapters in line 1, 2, 3, 4, 5, 6;

RK21679 contains Adapters in line 7, 8, 9, 10, 11, 12;

3. Storage

All components should be stored at -20 °C. The shelf life of each reagent is one year when stored properly.

4. Applications

- Rapid DNA Lib Prep kit;
- Rapid Plus DNA Lib Prep kit;
- Rapid Plus DNA Lib Prep Kit for MGI V2;
- ABclonal Whole RNA-seq Lib Prep kit;
- mRNA-seq Lib Prep Kit;
- Fast RNA Lib Prep Kit.

5. Directions for use

1. Thaw the MGI Full Adapter at room temperature. Briefly vortex to mix, then centrifuge each for 30 seconds to collect the reagent at the bottom of the tubes.
2. Use best-practice laboratory reagent handling strategies to prevent cross-contamination of reagents during handling and sample preparation.
3. Perform TA-ligation using the included MGI Full Adapter using the protocol outlined by the chosen library prep kit.
4. Perform indexing PCR using MGI PCR Primers Mix using the protocol outlined by the chosen library prep kit.

5. Optimal working concentration of MGI Full Adapter is dependent upon the library preparation protocol. If necessary, MGI Full Adapter can be diluted with TE buffer (not provided) immediately prior to use. Do not mix adapter with ligation enzymes prior to use.
6. Based on Barcode base balance, it is recommended to use adapter combinations within the same frame color for a batch of sequencing.

6. Sequences

Taking MGI Full Adapter 1 as an example, the library structure constructed is as follows:

```
5'-TGTGAGCCAAGGAGTTGATCGGACCTATTGTCTTCCTAAGACCGCTTGGCCTCCG  
ACTT-----AAGTCGGATCGTAGCCATGTCGTTC -3'  
3'-ACACTCGGTTCTCAACTTAGCCTGGATAACAGAAGGATTCTGGCGAACCGGAGG  
CTGAA-----TTCAGCCTAGCATCGGTACAGCAAG/5p/
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Full DNA Adapters Kit for MGI MiniSet (RK21676)

Components	Barcode	Components	Barcode
MGI Full Adapter 1	TAGGTCCGAT	MGI Full Adapter 13	CGGCAATCCG
MGI Full Adapter 2	GGACGGAATC	MGI Full Adapter 14	ATCAGGATTC
MGI Full Adapter 3	CTTACTGCCG	MGI Full Adapter 15	TCATTCCAGA
MGI Full Adapter 4	ACCTAATTGA	MGI Full Adapter 16	GATGCTGGAT

Full DNA Adapters Kit for MGI MidiSet (RK21677)

Components	Barcode	Components	Barcode
MGI Full Adapter 1	TAGGTCCGAT	MGI Full Adapter 45	TGGACTTGGC
MGI Full Adapter 2	GGACGGAATC	MGI Full Adapter 46	GCTTGACAGG
MGI Full Adapter 3	CTTACTGCCG	MGI Full Adapter 47	AAGACCTCTA
MGI Full Adapter 4	ACCTAATTGA	MGI Full Adapter 48	AGTTGCCATA
MGI Full Adapter 13	CGGCAATCCG	MGI Full Adapter 57	ATCAACGGA
MGI Full Adapter 14	ATCAGGATTC	MGI Full Adapter 58	AACTGTACTG
MGI Full Adapter 15	TCATTCCAGA	MGI Full Adapter 59	GTACCTCAAT
MGI Full Adapter 16	GATGCTGGAT	MGI Full Adapter 60	GACTTCTAAT
MGI Full Adapter 41	TTAGATGCAT	MGI Full Adapter 61	TGAAGCGTTG
MGI Full Adapter 42	GTCCAGAGCT	MGI Full Adapter 62	CGTGCGATCC
MGI Full Adapter 43	CACGTGATAG	MGI Full Adapter 63	TCGGAAGGCA
MGI Full Adapter 44	CCACTAGTCC	MGI Full Adapter 64	CCGATGTCGC

Full DNA Adapters Kit for MGI Set A (48 indices) (RK21678)

Components	Barcode	Components	Barcode
MGI Full Adapter 1	TAGGTCCGAT	MGI Full Adapter 65	ACTTAGAATG
MGI Full Adapter 2	GGACGGAATC	MGI Full Adapter 66	TCCAAGCCTG
MGI Full Adapter 3	CTTACTGCCG	MGI Full Adapter 67	AGACGATGAT
MGI Full Adapter 4	ACCTAATTGA	MGI Full Adapter 68	CTCACAAGAC
MGI Full Adapter 13	CGGCAATCCG	MGI Full Adapter 69	CGTTCCTACT
MGI Full Adapter 14	ATCAGGATTC	MGI Full Adapter 70	GTGGTTGTGA
MGI Full Adapter 15	TCATTCCAGA	MGI Full Adapter 71	GAAGGCCTGC
MGI Full Adapter 16	GATGCTGGAT	MGI Full Adapter 72	TAGCTTGCCA
MGI Full Adapter 41	TTAGATGCAT	MGI Full Adapter 73	GACAATGCTC
MGI Full Adapter 42	GTCCAGAGCT	MGI Full Adapter 74	GCTAATCACA
MGI Full Adapter 43	CACGTGATAG	MGI Full Adapter 75	AGTCCATAGG
MGI Full Adapter 44	CCACTAGTCC	MGI Full Adapter 76	CTATCGCCTA
MGI Full Adapter 45	TGGACTTGGC	MGI Full Adapter 77	ATCGTGGTCT
MGI Full Adapter 46	GCTTGACAGG	MGI Full Adapter 78	TGGCTAATAC
MGI Full Adapter 47	AAGACCTCTA	MGI Full Adapter 79	CAGTGCAGAG
MGI Full Adapter 48	AGTTGCCATA	MGI Full Adapter 80	TCAGGCTGGT
MGI Full Adapter 57	ATTCAACGGA	MGI Full Adapter 81	ATACTCACGC
MGI Full Adapter 58	AACTGTACTG	MGI Full Adapter 82	ATGCTCCGCG
MGI Full Adapter 59	GTACCTCAAT	MGI Full Adapter 83	TGTGAAGTGTG
MGI Full Adapter 60	GACTTCTAAT	MGI Full Adapter 84	GAGAGGTGCT
MGI Full Adapter 61	TGAAGCGTTG	MGI Full Adapter 85	TGCACTGTAA
MGI Full Adapter 62	CGTGCGATCC	MGI Full Adapter 86	GCCTAGGCAA
MGI Full Adapter 63	TCGGAAGGCA	MGI Full Adapter 87	CCATCATAGC
MGI Full Adapter 64	CCGATGTCGC	MGI Full Adapter 88	CATGGTAATT

Full DNA Adapters Kit for MGI Set B (48 indices) (RK21679)

Components	Barcode	Components	Barcode
MGI Full Adapter 89	CACCATGTCT	MGI Full Adapter 25	TAGAGGACAA
MGI Full Adapter 90	ATATGTCTGG	MGI Full Adapter 26	CCTAGCGAAT
MGI Full Adapter 91	AAGGAAGCGT	MGI Full Adapter 117	ATGTCTATCC
MGI Full Adapter 92	TCAAGACGTC	MGI Full Adapter 28	GCTGAGCTGT
MGI Full Adapter 93	CCGCTCAGTA	MGI Full Adapter 29	AACCTAGATA
MGI Full Adapter 94	GGTGTGTACA	MGI Full Adapter 30	TTGCCATCTC
MGI Full Adapter 95	TTCACGTAAG	MGI Full Adapter 114	CCAGAGTCAG
MGI Full Adapter 96	GGTTCCACAC	MGI Full Adapter 32	CGCTATCGGC
MGI Full Adapter 97	AGGTATTCTT	MGI Full Adapter 33	GCAACGATGG
MGI Full Adapter 98	CGAATGCAAC	MGI Full Adapter 34	TAATCGTTCA
MGI Full Adapter 99	TTCAACGGCG	MGI Full Adapter 35	GTTGCTCTA
MGI Full Adapter 100	CTCGGCGGAA	MGI Full Adapter 36	TCTCACACAT
MGI Full Adapter 101	ACGGTAATGG	MGI Full Adapter 37	CTGTTAGGAT
MGI Full Adapter 102	GATCCGACGT	MGI Full Adapter 38	CGCAGACGCG
MGI Full Adapter 103	TCACGATACA	MGI Full Adapter 39	AAGGATCATC
MGI Full Adapter 104	GATTCTCTTC	MGI Full Adapter 115	AACAGGCAGT
MGI Full Adapter 121	CCTTGATCAA	MGI Full Adapter 49	ATGTACGCAG
MGI Full Adapter 122	GGAAGTGGCA	MGI Full Adapter 50	TTAATGAGAT
MGI Full Adapter 123	AACATTCTAC	MGI Full Adapter 51	TGCGCCACTT
MGI Full Adapter 124	GACGCGAGTC	MGI Full Adapter 52	CATTAAGGCC
MGI Full Adapter 125	CTATAAACT	MGI Full Adapter 53	CCGCCTCAGA
MGI Full Adapter 126	AGTCTCGTGT	MGI Full Adapter 116	GCTCCATGAC
MGI Full Adapter 127	TCGGCCTATG	MGI Full Adapter 55	GCCGTTATC
MGI Full Adapter 128	TTGCAGACGG	MGI Full Adapter 56	GGAATATTGA

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