

NGS Multiplex Oligos for MGI (Index Primer Mix Set II)

Second-generation sequencing multi-sample junction primer kit

II

(MGI Platform Index Primer 49-96)

Catalog number: N666012 (96 rxns)

Storage condition: -20°C for storage, ice pack for transportation.

Product content

Component	96 rxns
Adaptor for MGI	480 µl
Index primer Mix (49-96) for MGI	48×12 µl

Products Introduction

This kit provides the Adaptor and Index primer Mix for MGI platform second generation sequencing, which is specially designed for MGI sequencing platform, the Adaptor is improved on the basis of the original MGI platform, the improved Adaptor is a universal type without Barcode sequence, which is convenient for automation, and it contains Universal primer and Index primer binding site, which is introduced into Barcode sequence by Index primer. It contains Universal primer and Index primer binding site, and the Barcode sequence is introduced by Index primer. The improved connector can significantly improve the library ligation efficiency, transformation efficiency and amplification efficiency. There are three sets of this kit, namely: Second Generation Sequencing Multi-sample Junction Primer Kit I (Barcode 1-48 of MGI platform), Second Generation Sequencing Multi-sample Junction Primer Kit II (Barcode 49-96 of MGI platform), and Second Generation Sequencing Multi-sample Junction Primer Kit III (Barcode 97-128 of MGI platform). These libraries cover Barcode 1-128 of MGI sequencing platform. The prepared libraries can be used for sequencing on BGISEQ-500RS (PE50/PE100/PE150), MGISEQ-2000RS (PE100/PE150), MGISEQ-200RS (PE100) and other sequencers of MGI platform.

Provide your own instruments, reagents and consumables

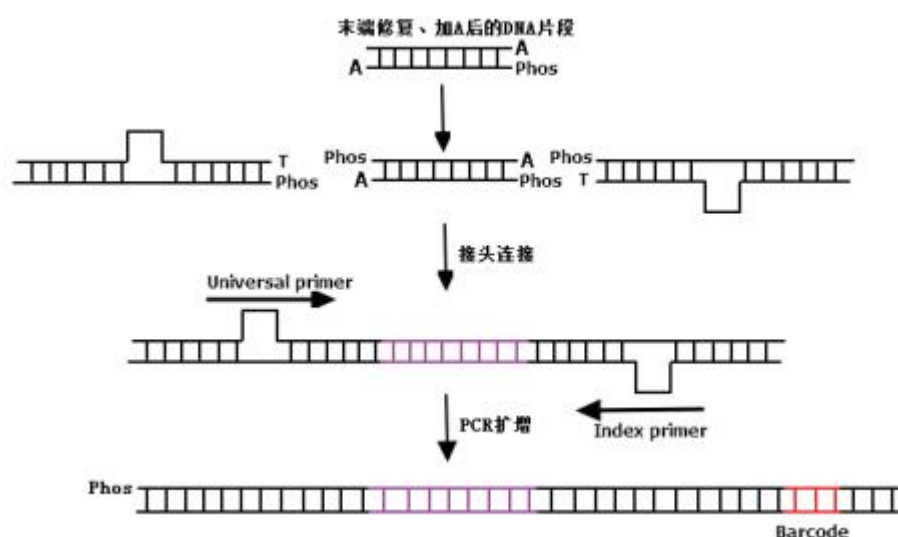
1. Magnetic frame: DynaMag™-2 is recommended.
2. DNA Purification and Recovery Kit: We recommend the use of the Kangwei Magnetic Bead Method DNA Purification and Recovery Kit.

3. DNA Library Building Kit: Kangwei cfDNA Library Rapid Preparation Kit (MGI platform), DNA Library Rapid Preparation Kit, Second Generation Sequencing with Fragmentation Enzyme Rapid DNA Library Building Kit is recommended.
4. Anhydrous ethanol.
5. Reaction Tubes: It is recommended to use PCR tubes with low adsorption and 1.5 ml centrifuge tubes; Tips: It is recommended to use high-quality filter tips to prevent contamination of kits and libraries.

Pre-experiment Preparation and Important Notes

1. Adaptor is a double-chain structure, please do not leave it above room temperature to avoid unchaining and affecting the use.
2. Please centrifuge the Index primer Mix briefly before uncapping so that the liquid collects at the bottom of the tube to avoid cross-contamination between different primers.

workflow



procedure

The second-generation sequencing multi-sample junction primer kit II was used according to the DNA Library Rapid Preparation Kit (MGI platform) protocol.

Index primer Mix is composed of Universal primer and Index primer, of which there are 48 Index primers. According to different mixing strategies, different Indexes can be added to each sample, or one set of Indexes can be added to each sample, and the final mixed library is required to ensure that all Indexes are assembled in a set. 8 out of Indexes 49-96 are in a set, which are 49-56, 57-64, 65-72, 73-80, 81-88, and 89-96, respectively.

Table: Barcode 1-48 for MGI

Barcode 49	ATGTACGCAG	Barcode 158	AACTGTACTG
Barcode 50	TTAATGAGAT	Barcode 59	GTACCTCAAT

Barcode 51	TGCGCCACTT	Barcode 60	CAAGCACGCA
Barcode 52	CATTAAGGCC	Barcode 61	CGTGCGATCC
Barcode 53	CCGCCTCAGA	Barcode 62	CGTGCGATCC
Barcode 54	AATCGGCTCG	Barcode 63	TCGGAAGGCA
Barcode 55	GCCGGTTATC	Barcode 64	CCGATGTCGC
Barcode 56	GGAATATTGA	Barcode 65	ACTTAGAATG
Barcode 57	ATTCAACGGA	Barcode 66	TCCAAGCCTG

Barcode 67	AGACGATGAT	Barcode 82	ATGCTCCGCG
Barcode 68	CTCACAAGAC	Barcode 83	TGTGAAC TTG
Barcode 69	CGTTCCTACT	Barcode 84	GAGAGGTGCT
Barcode 70	GTGGTTGTGA	Barcode 85	TGCACTGTAA
Barcode 71	GAAGGCCTGC	Barcode 86	GCCTAGGCAA
Barcode 72	TAGCTTGCCA	Barcode 87	CCATCATAGC
Barcode 73	GACAATGCTC	Barcode 88	CATGGTAATT
Barcode 74	AGTCCATAGG	Barcode 89	CACCATGTCT
Barcode 75	AGTCCATAGG	Barcode 90	ATATGTCTGG
Barcode 76	CTATCGCCTA	Barcode 91	AAGGAAGCGT
Barcode 77	ATCGTGGTCT	Barcode 92	TCAAGACGTC
Barcode 78	TGGCTAATAC	Barcode 93	CCGCTCAGTA
Barcode 79	CAGTGCAGAG	Barcode 94	GGTGTGTACA
Barcode 80	TCAGGCTGGT	Barcode 95	TTCACGTAAG
Barcode 81	ATACTCACGC	Barcode 96	GGTTCCACAC