

Hieff NGS™ Dual UMI UDB Adapter Kit for MGI®

Product Information

Product name	Cat#	Specification
Hieff NGS™ Dual UMI UDB Adapter Kit for MGI®, Set1	13367ES02	48×2 T
	13367ES04	48×4 T
Hieff NGS™ Dual UMI UDB Adapter Kit for MGI®, Set2	13368ES02	48×2 T
	13368ES04	48×4 T

Product Description

Hieff NGS™ Dual UMI UDB Adapter Kits for MGI® are two special kits for DNA library preparation for MGI® platforms, each set contains 48 kinds of UDI Primers. After adapters ligation, 8 bp unique molecular identifier (UMI) was added to both ends of insert DNA, which can be used to detect low-frequency mutations, effectively reduce index jumping and mismatch, and ensure the accuracy and authenticity of analysis results. All the reagents provided in the kit are subjected strict quality control and functional verification to ensure the maximum stability and repeatability of the library preparation.

Contents of Kit

Cat #	Components	Specification	
		48×2 T	48×4 T
13367	UMI Adapter	480 µL	960 µL
	UDB Primer 001-048	10 µL each	20 µL each
13368	UMI Adapter	480 µL	960 µL
	UDB Primer 049-096	10 µL each	20 µL each

Shipping and Storage

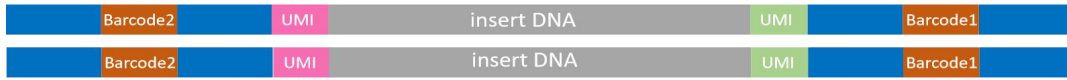
All the components are shipped with ice packs and can be stored at -20°C for 18 months

Notes

1. The concentration of UMI Adapter and UDB Primer are **10 µM**. The amount of adapters when construct a single library should be adjusted according to the kit used.
2. The UMI Adapters provided in these kits are universal adapters that require PCR amplification to obtain a complete library.
3. Do not heat the adapters. They should be dissolved slowly at room temperature. It is best to set the laboratory temperature at 20-25°C. Avoid repeated freezing and thawing of the adapters. It is recommended to store them in separate packs. The adapters can be stored at 4°C for a short time.
4. For your safety and health, please wear experimental clothes and disposable gloves.
5. For research use only.

Sequence

The structure of libraries prepared with Hieff NGS™ Dual UMI UDB Adapter Kit for MGI® (Cat#13367/13368) are as follows:



UMI Adapter for MGI:

5'-/5Phos/NNNNNNNAAGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCA*G -3'

5'-TTGTCTTCCTAAGCAACTCCTTGGCTCACAGAACGACATGGCTACGATCCGACTTNNNNNNNN* T-3'

Barcode 2 Primer for MGI:

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

Barcode 1 Primer for MGI:

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

Barcode_ID	Barcode2 序列	Barcode1 序列	
	测序仪拆分用序列 (同引物中序列)	测序仪拆分用序列	引物中序列
UDB-P001	TAACACGACG	GTCATCGACG	CGTCGATGAC
UDB-P002	TGTTCTCTTC	CGCCTTATAT	ATATAAGGCG
UDB-P003	GAGTTCACAA	GAGCACGATC	GATCGTGCTC
UDB-P004	CTGATGTCCT	CCGAAGACTG	CAGTCTTCGG
UDB-P005	AGACAGTGGC	AGATCGTTCT	AGAACGATCT
UDB-P006	CTCACACTTA	AATGCACCAA	TTGGTGCATT
UDB-P007	GCCGGTAAAGT	TTATGACGGC	GCCGTCATAA
UDB-P008	ACTGGAGGAG	TCTGGTTGGA	TCCAACCAGA
UDB-P009	CAACAGTAAC	TCTTGCTATC	GATAGCAAGA
UDB-P010	ATAACGCTCA	GAAGCACGGT	ACCGTGCTTC
UDB-P011	GATTGCGCCT	TTACATCTGC	GCAGATGTAA
UDB-P012	CGGTGTTGGA	CGCTCCAACA	TGTTGGAGCG
UDB-P013	TTCCAACATC	GTGGATACAA	TTGTATCCAC
UDB-P014	TGCGTCATGG	CATCTGTGCG	CGCACAGATG
UDB-P015	GCTATAGCTT	ACGAGAGTTG	CAACTCTCGT
UDB-P016	ACGGCTAGAG	AGCATGGCAT	ATGCCATGCT
UDB-P017	GTAGAGATTG	TAAGCTGCCT	AGGCAGCTTA
UDB-P018	TCGAGCGTTA	CGCTAGGCTA	TAGCCTAGCG
UDB-P019	GATGAAGGAT	CGCACGTGAT	ATCACGTGCG
UDB-P020	ACGAGGTACT	GCGCATAACG	CGTTATGCGC
UDB-P021	CTCCTACAA	TCGATCCTTG	CAAGGATCGA
UDB-P022	CAATCTCGCG	ATACGACAAC	GTTGTCGTAT
UDB-P023	TGCCTATCGC	GATTGATTGC	GCAATCAATC
UDB-P024	AGCTTCCAGC	ATTGTCAGGA	TCCTGACAAT
UDB-P025	GTGCTGTCAC	TAAGGCACCT	AGGTGCCCTTA
UDB-P026	TCCGAGATGC	CTTGGTTCTT	AAGAACCAAG
UDB-P027	GAAGCTCTTA	GTCATGTATG	CATACATGAC
UDB-P028	TTGAGTAAGG	TCACCAGGCA	TGCCTGGTGA

Barcode_ID	Barcode2 序列	Barcode1 序列	
	测序仪拆分用序列 (同引物中序列)	测序仪拆分用序列	引物中序列
UDB-P029	CAACACGAAT	AACTCCGAGA	TCTCGGAGTT
UDB-P030	ACCTCCGCTA	AGTCTACGAC	GTCGTAGACT
UDB-P031	AGTATATGCG	CGGTATATGC	GCATATACCG
UDB-P032	CGTTGACGCT	GCGAAGCTAG	CTAGCTTCGC
UDB-P033	CTAGCAGTTA	TTGATACGTC	GACGTATCAA
UDB-P034	GCATTCTCGC	TCCTAGCAGG	CCTGCTAGGA
UDB-P035	GATCCAATAC	CGCCAAGTTG	CAACTTGGCG
UDB-P036	TTCGATGACG	GAGGTCGCAT	ATGCGACCTC
UDB-P037	CCGCATACTA	CGTCCTTAAC	GTAAAGGACG
UDB-P038	TGGAGCCGAT	ACAACCTGGA	TCCAAGTTGT
UDB-P039	AGCTTGCGCT	GAATGGACCT	AGGTCCATTC
UDB-P040	AATAGGTAGG	ATTGGCATCA	TGATGCCAAT
UDB-P041	TATGCTGAGA	AACTCTTAGG	CCTAAGAGTT
UDB-P042	CGGTCTCTGT	AGCTAGTATC	GATACTAGCT
UDB-P043	GTGTACGTCG	GAGATGCCTT	AAGGCATCTC
UDB-P044	GTAATAAGAG	CCAGATGCCA	TGGCATCTGG
UDB-P045	AGTGGATATC	GCTCCAGTGT	ACACTGGAGC
UDB-P046	CAACTGCGCA	TGTGGCATAAC	GTATGCCACA
UDB-P047	ACCAAGACTC	CTACTAAGAG	CTCTTAGTAG
UDB-P048	TCCAGCTCAT	TTGAGCCGCA	TGCGGCTCAA
UDB-P049	GATAGTAACG	AGCAATGTGA	TCACATTGCT
UDB-P050	TGAGTGGCTA	GAGCGCCATT	AATGGCGCTC
UDB-P051	CCGTCATTAC	TCATTGAGAC	GTCTCAATGA
UDB-P052	ATCCACCGGT	CTTGCATCCG	CGGATGCAAG
UDB-P053	GCTTGTTTACG	CAATAGGCTT	AAGCCTATTG
UDB-P054	AACAAGCACT	TGCAGTAGCG	CGCTACTGCA
UDB-P055	TTGCCAGTGA	ATGCTCTTGA	TCAAGAGCAT
UDB-P056	CGAGTCAGTC	GCTGCACAAC	GTTGTGCAGC
UDB-P057	TCGCGATGTC	ATTCCTGTCT	AGACAGGAAT
UDB-P058	AGTGACACCA	TACGGCAAGG	CCTTGCCGTA
UDB-P059	GACATTCAAG	CCGTAATGAC	GTCATTACGG
UDB-P060	CTATCGGTGT	GGAATGCCTA	TAGGCATTCC
UDB-P061	CCGATGACGT	CCTACTGGCT	AGCCAGTAGG
UDB-P062	TTATCTCGAG	GTACACTTAC	GTAAGTGATC
UDB-P063	AGCCGATACC	AACGTGACTA	TAGTCACGTT
UDB-P064	GATGACGTTA	TGGTGACAGG	CCTGTCACCA
UDB-P065	GACGCGGTAT	CATCCACGAT	ATCGTGGATG
UDB-P066	ACGAGACGTC	TCGATCTCCA	TGGAGATCGA
UDB-P067	CTACTCAAGA	ATCTGTGAGG	CCTCACAGAT
UDB-P068	TGTTATTCCG	GGAGAGATTC	GAATCTCTCC
UDB-P069	CCGTCACCTGA	GTCAGTCTGC	GCAGACTGAC

Barcode_ID	Barcode2 序列		Barcode1 序列	
	测序仪拆分用序列 (同引物中序列)	测序仪拆分用序列	引物中序列	
UDB-P070	TGACGCAACT	CGTTAATGAG	CTCATTAACG	
UDB-P071	GTTGTTGCTC	AAGCTCACCA	TGGTGAGCTT	
UDB-P072	AACAAGTGAG	TCAGCGGATT	AATCCGCTGA	
UDB-P073	TGGTTGGAAT	GTTGATGCGA	TCGCATCAAC	
UDB-P074	GAACGTTCCG	TCACTGTTCT	AGAACAGTGA	
UDB-P075	ATCGCACGCA	AGGAGACATG	CATGTCTCCT	
UDB-P076	CCTAACATTC	CACTCCAGAC	GTCTGGAGTG	
UDB-P077	CGTGTGGATG	CACAGACCTC	GAGGTCTGTG	
UDB-P078	TTACGTCGGT	ACGTCTATAG	CTATAGACGT	
UDB-P079	ACGAACATAC	GGTCACTGCA	TGCAGTGACC	
UDB-P080	GACTCATCCA	TTAGTGGAGT	ACTCCACTAA	
UDB-P081	TGCCTGACTC	CCTACTTCGC	GCGAAGTAGG	
UDB-P082	CATTATCGCT	AGGTTAGGCA	TGCCTAACCT	
UDB-P083	GTAAGCGAGG	GTAGACCATT	AATGGTCTAC	
UDB-P084	ACGGCATTAA	TACCGGATAG	CTATCCGGTA	
UDB-P085	GACACTGCCA	CTGAAGCGTA	TACGCTTCAG	
UDB-P086	CCGTAGCATG	AGATGCTCCG	CGGAGCATCT	
UDB-P087	ATTCTATGGC	GATCTAGTAC	GTACTAGATC	
UDB-P088	TGAGGCATAT	TCCGCTAAGT	ACTTAGCGGA	
UDB-P089	ATACGCGCCA	ATGGAGTGAT	ATCACTCCAT	
UDB-P090	TCTTAGTGAC	CACTGCGATC	GATCGCAGTG	
UDB-P091	GAGGTACATT	GGAATTCCGG	CCGGAATTC	
UDB-P092	CGCACTATGG	TCTCCAATCA	TGATTGGAGA	
UDB-P093	TGGCTCGCTT	CGACCTTGTTG	CACAAGGTCG	
UDB-P094	GTCACCTAAG	TCCTGCGAGA	TCTCGCAGGA	
UDB-P095	CAATAGAGGC	ATGATACCAC	GTGGTATCAT	
UDB-P096	ACTGGACTCA	GATGAGATCT	AGATCTCATC	