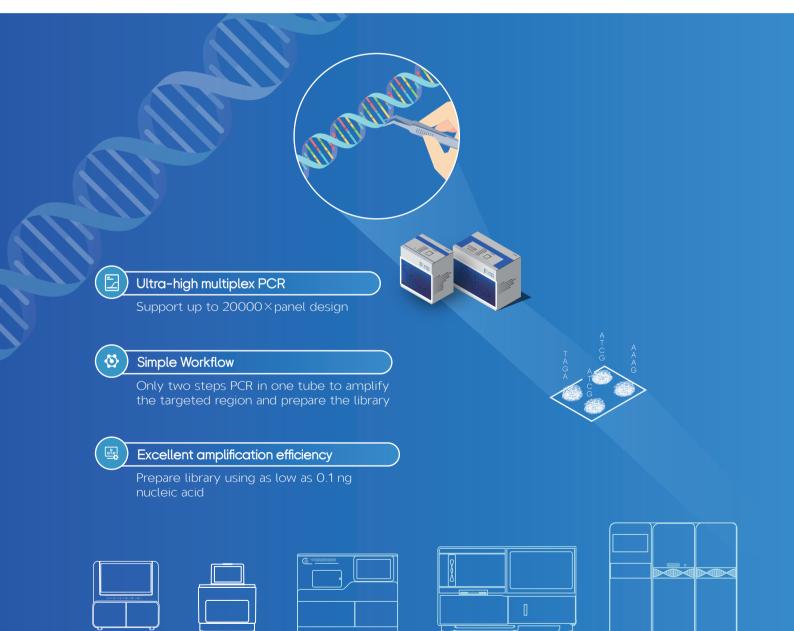


ATOPlex multiplex PCR-based library preparation kit customized platform

Your accessible expert for target region sequencing



DNBSEQ-G400*

DNBSEQ-T7

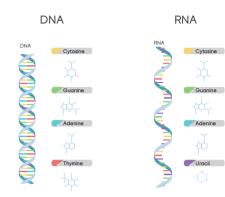
DNBSEQ-G99

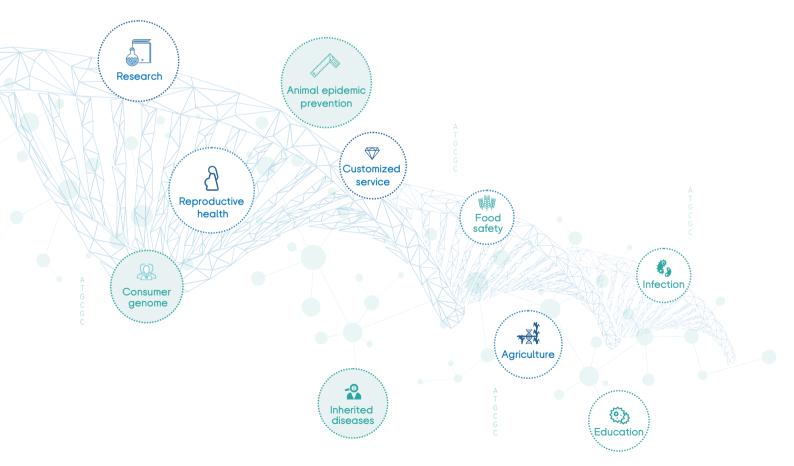
DNBSEQ-E25

DNBSEQ-G50*

INTRODUCTION

ATOPlex multiplex PCR-based library preparation kit customized platform based on MGI's self-developed ultra-high plex PCR technology, which have the features of auto-design workflow, work for trace sample, all the reactions in one tube and pure PCR products, providing excellent performance library kit for target sequencing. It work for DNA, RNA and can be applied in medicine, research, public health, food safety, DTC (direct to customer) and other scenarios.





FEATURES

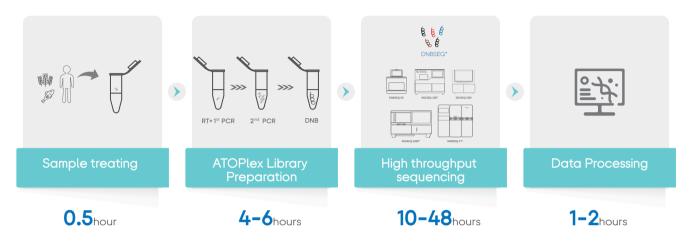
Own many core technologies to achieved primer auto-design, reducing dimer effectively one-tube reactions.

Simple workflow	Library prepared by two steps PCR in one single tube	
Ultra-high Panel Size	10-20000X	
Less Sample Input	Minimum 0.1 ng or a few cells	
		1 st PCR gene spec
Auto-workflow Automated design workflow	Trace-samples Work for direct amplification from trace sample, such as blood spot	2 nd PCR barcoding
Ont-tube	Pure-PCR	\downarrow
All the reactions accomplished in one tube	Efficiently clean the PCR product contamination	

Parameters			
ATOPlex multiplex PCR-based library preparation kit customized platform			
Platform	DNBSEQ-E25/DNBSEQ-G99/DNBSEQ-G50/DNBSEQ-G400/DNBSEQ-T7		
Input type	DNA and RNA		
Sample type	Blood, blood plaque, Cell free nucleic acid, FFPE samples and environmental extracts, etc		
Input required	Recommend 10 ng input. Minimum input is 0.1 ng or single cell		
Panel size	10-20000X		
Sample multiplexing	Up to 4608 barcodes available		
Variant types	SNVs, indels, STRs, SNPs, CNV, hotspot fusion		
Amplicon size	60-500 bp		
Performance	≥95% coverage, ≥95% specificity, ≥90% uniformity		

WORKFLOW

In combination with MGI's sequencer and software to cover from sample to report



Business workflow



Automized design website ATOPlex.mgi-tech.com



Publication

- [1]. Li, Ran, et al. "Developmental validation of the MGIEasy Signature Identification Library Prep Kit, an all-in-one multiplex system for forensic applications." *International Journal of Legal Medicine* 135.3 (2021): 739-753.
- [2]. Li, Qian, et al. "Prolonged shedding of severe acute respiratory syndrome coronavirus 2 in patients with COVID-19." *Emerging microbes & infections* 9.1 (2020): 2571-2577.
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- [4]. Yang, Yong, et al. "Serological investigation of asymptomatic cases of SARS-CoV-2 infection reveals weak and declining antibody responses." *Emerging Microbes & Infections* 10.1 (2021): 905–912.
- [5]. Souza, Thiago, et al. "Human endogenous retrovirus K activation in the lower respiratory tract of severe COVID-19 patients associates with early mortality." (2021).
- [6]. Ni, Gaofeng, et al. "Novel Multiplexed Amplicon-Based Sequencing to Quantify SARS-CoV-2 RNA from Wastewater." Environmental Science & Technology Letters 8.8 (2021): 683-690.
- [7]. Yang, Lin, et al. "Simultaneous detection of fetal aneuploidy, de novo FGFR3 mutations and paternally derived β thalassemia by a novel method of noninvasive prenatal testing." *Prenatal diagnosis* 41.4 (2021): 440–448.

940-000954-00 940-000960-00	ATOPlex Custom Panel (50x) ATOPlex Custom Panel (50x) ATOPlex Custom Panel (50x)	1152 RXN 5760 RXN
240-000955-00 240-000954-00 240-000960-00		5760 RXN
240-000960-00	ATOPlay Custom Papel (50y)	
	ATOTIEX Custom Tuner (00x)	23040 RXN
	ATOPlex Custom Panel (100x)	1152 RXN
940-000946-00	ATOPlex Custom Panel (100x)	5760 RXN
40-000942-00	ATOPlex Custom Panel (100x)	23040 RXN
940-000941-00	ATOPlex Custom Panel (200x)	1152 RXN
40-000951-00	ATOPlex Custom Panel (200x)	5760 RXN
40-000956-00	ATOPlex Custom Panel (200x)	23040 RXN
940-000949-00	ATOPlex Custom Panel (500x)	1152 RXN
40-000959-00	ATOPlex Custom Panel (500x)	5760 RXN
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40-001188-00	ATOPlex DNA Single BC Library Prep Set	96 RXN
40-001189-00	ATOPlex DNA Single BC Library Prep Set	576 RXN
40-001191-00	ATOPlex DNA Dual BC Library Prep Set	96 RXN

More information

Website: https://www.mgi-tech.com/products/atoplex/ Email: mgi_atoplex@mgi-tech.com

Order information



Start ATOPlex Panel Design

Contact Us

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*Unless otherwise informed, all sequencers and sequencing reagents are not available in Germany, USA, Spain, UK, Hong Kong, Sweden, Belgium and Italy.