



华大智造
MGI

靶向测序 随你所定

ATOPlex多重PCR建库试剂盒 定制平台

——您身边的靶向测序专家



超高重PCR设计

最多可支持20000× Panel设计



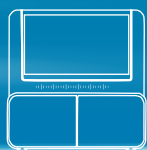
超简单流程

在一管内进行2步PCR即可实现
靶区域扩增与文库制备



超低样本投入量

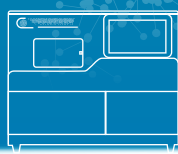
优异的扩增效率, 最低只需0.1ng
核酸即可进行文库制备



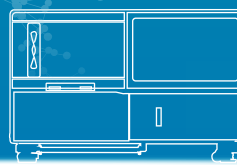
DNBSEQ-G99



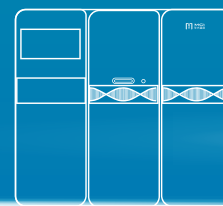
DNBSEQ-E25



DNBSEQ-200



DNBSEQ-2000



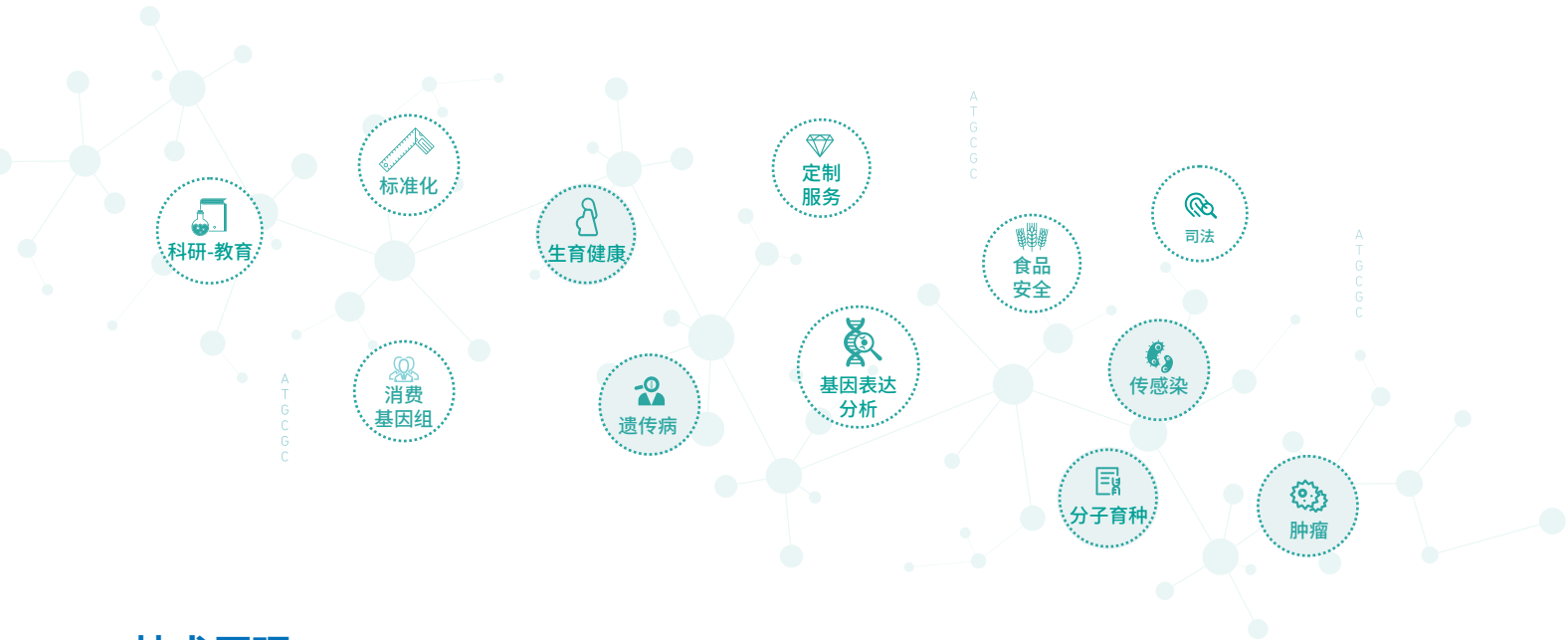
DNBSEQ-T7

平台介绍

ATOplex 多重 PCR 建库试剂盒定制平台，以自主研发的超高重 PCR 核心技术为基础，为客户提供性能优异的定制 Panel 和建库试剂，将靶向测序应用于多种领域。

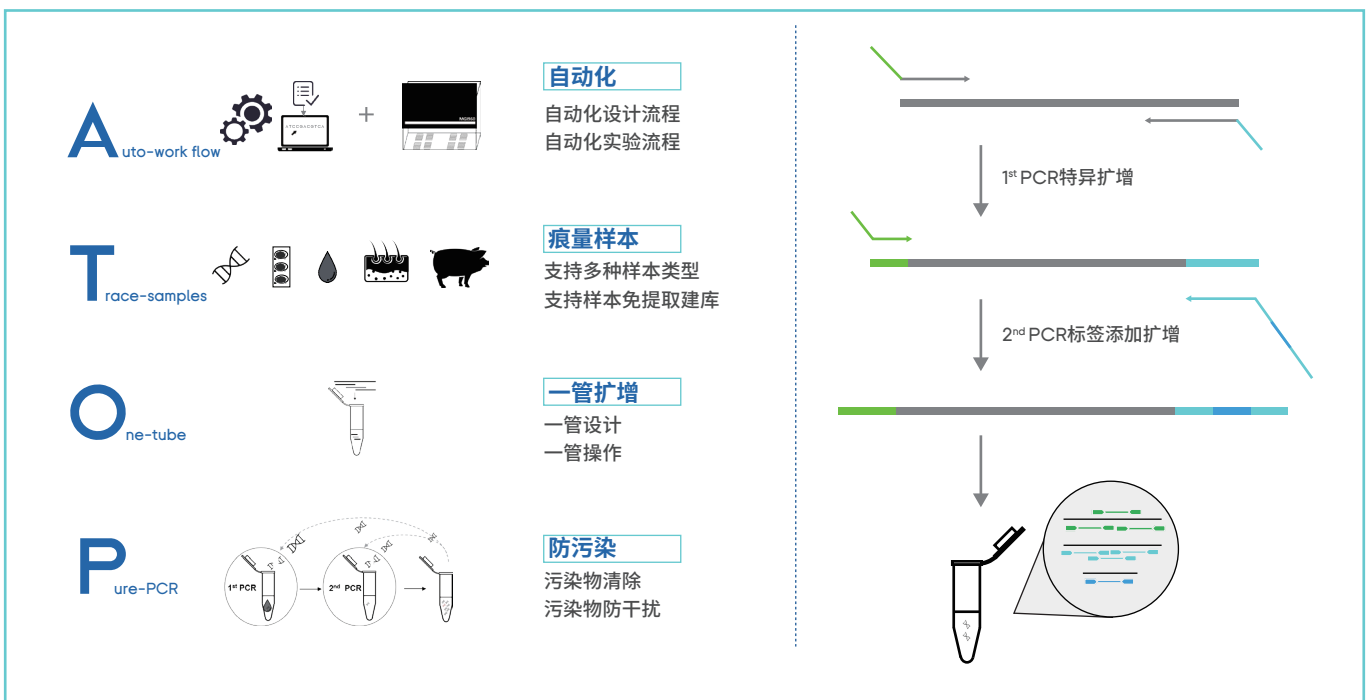
应用领域

适用于 DNA、RNA 和甲基化 DNA 捕获方向，充分满足医学、科研、公卫、食品安全、DTC 等领域的基因检测需求。



技术原理

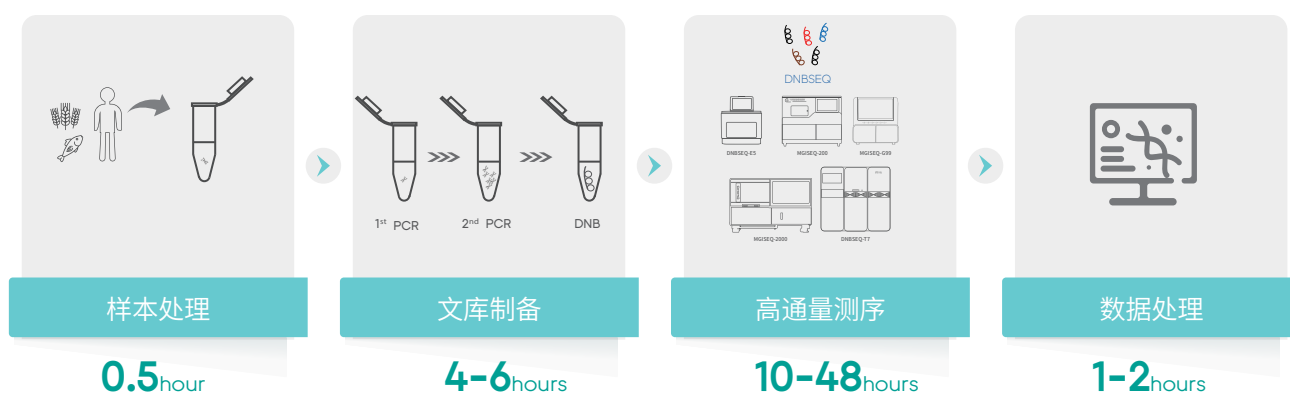
多项核心技术实现自动化引物设计，能在一管操作的同时有效减少引物二聚体的产生。



性能参数

ATOPlex 多重PCR 建库试剂盒定制平台	
适用平台	DNBSEQ-E25/DNBSEQ-G99/MGISEQ-200/MGISEQ-2000/DNBSEQ-T7
样本类型	血液、血斑、游离核酸、FFPE样本和环境提取物等
panel大小	10-20000重
反应管数	1管
样本投入量	推荐10 ng投入, 最低投入量 0.1 ng或者少量细胞
检测类型	SNVs, InDels, STRs, SNPs, mtDNA detection, CNV, 热点fusion
扩增子大小	60-500 bp
性能	≥95% coverage, ≥95% specificity, ≥90% uniformity

搭配MGI测序仪与分析软件, 实现从样本到报告全流程覆盖



定制流程



自动化设计网站 ATOPlex.mgi-tech.com



平台发表文章

- [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.
- [3]. Xiao, Minfeng, et al. Multiple approaches for massively parallel sequencing of SARS-CoV-2 genomes directly from clinical samples. Genome medicine 12.1 (2020): 1-15.
- [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]. Fintelman-Rodrigues N, et al. Genetic Evidence and Host Immune Response in Persons Reinfected with SARS-CoV-2, Brazil. Emerging Infectious Diseases 27.5(2021):1446-1453.
- [8]. Warish Ahmed, et al. Detection of the Omicron (B.1.1.529) variant of SARS-CoV-2 in aircraft wastewater, Science of The Total Environment, Volume 820, 2022.

订购信息

物料编码	产品名称	规格
940-000944-00	ATOPlex 定制化Panel (50x)	1152 RXN
940-000955-00	ATOPlex 定制化Panel (50x)	5760 RXN
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940-000956-00	ATOPlex 定制化Panel (200x)	23040 RXN
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940-000953-00	ATOPlex 定制化Panel (1500x)	5760 RXN
940-000948-00	ATOPlex 定制化Panel (1500x)	23040 RXN
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940-001333-00	ATOPlex RNA 双标签建库试剂盒套装	576RXN

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