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Product Datasheet

HiDi® Taq 2x PCR Master Mix
#4200

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Product Name	HiDi® Taq 2x PCR Master Mix
Catalog Number	#4200
Description	HiDi® stands for High Discrimination of mismatches at the 3’-terminus of primers in PCR. HiDi® Taq 2x PCR Master Mix is a ready-to-use master mix specially optimized for assays in which high discrimination is required. The combination of highly selective aptamer-based fast-start formulated HiDi® Taq DNA polymerase and an optimized buffer with ultrapure dNTPs ensures simple reaction setup and relible results. HiDi® Taq DNA polymerase efficiently amplifies from primers that are matched at the 3'-end and discriminates primers that are mismatched. The variant has a 5'-3'-exonuclease activity and therefore, can be used for hydrolysis probe-based real-time PCRs. By using HiDi® Taq DNA polymerase, less than 10 copies of a mutation can be detected in a background of >10^4 wild-type copies. For more information, please check : **HiDi® Taq 2x PCR Master Mix**
Tested Applications	End-Point, Real-Time
Brand	myPOLS Biotec
Storage	-20°C
References	Drum, M., Kranaster, R., Ewald, C., Blasczyk, R., & Marx, A. (2014). Variants of a Thermus aquaticus DNA polymerase with increased selectivity for applications in allele-and methylation-specific amplification. PloS one, 9(5), e96640. Barraud, N., Létoffé, S., Beloin, C., Vinh, J., Chiappetta, G., & Ghigo, J. M. (2021). Lifestyle-specific S-nitrosylation of protein cysteine thiols regulates Escherichia coli biofilm formation and resistance to oxidative stress. npj Biofilms and Microbiomes, 7(1), 1-11. Miotto, O., Sekihara, M., Tachibana, S. I., Yamauchi, M., Pearson, R. D., Amato, R., ... & Mita, T. (2020). Emergence of artemisinin-resistant Plasmodium falciparum with kelch13 C580Y mutations on the island of New Guinea. PLoS pathogens, 16(12), e1009133. Yang, Z., Le, J. T., Hutter, D., Bradley, K. M., Overton, B. R., McLendon, C., & Benner, S. A. (2020). Eliminating primer dimers and improving SNP detection using self-avoiding molecular recognition systems. Biology Methods and Protocols, 5(1), bpaa004. Morisaka, H., Yoshimi, K., Okuzaki, Y., Gee, P., Kunihiro, Y., Sonpho, E., ... & Mashimo, T. (2019). CRISPR-Cas3 induces broad and unidirectional genome editing in human cells. Nature communications, 10(1), 1-13. Madhuri, S., Bártulos, C. R., Serif, M., Lepetit, B., & Kroth, P. G. (2019). A strategy to complement PtAUREO1a in TALEN knockout strains of Phaeodactylum tricornutum. Algal Research, 39, 101469.
Content	S pack: 1 x 1.25 ml HiDi® Taq 2x PCR Master Mix M pack: 5 x 1.25 ml HiDi® Taq 2x PCR Master Mix