
Product Datasheet

**HiDi® Taq DNA polymerase
#9201**

Product Name	HiDi® Taq DNA polymerase
Catalog Number	#9201
Description	HiDi® stands for High Discrimination of mismatches at the 3'-terminus of primers in PCR. This enzyme family is optimized for this feature and is the first choice for applications that rely on this property such as allele-specific PCR (asPCR), also known as allele-specific amplification (ASA). Comparison studies with competitor products show that the HiDi® Taq DNA polymerase family is the first choice for highly selective PCRs, such as genotyping by allele-specific PCR, HLA genotyping, analysis of single CpG methylation sites or the detection of mutations in a high background of wild-type sequences. By using HiDi® Taq DNA polymerase, less than 10 copies of a mutation can be detected in a background of >10,000 wild-type copies without any other tedious assay optimization. Applications: - Allele-specific PCR (asPCR), allele-specific amplification (ASA) - HLA genotyping - Analysis of single CpG methylation sites by PCR (methylation specific PCR, MSP) - Mutation detection by PCR even in a high background of wild-type sequences - Genotyping e.g., in CRISPR/Cas and TALEN approaches This DNA polymerase is also available as a nuclease deficient variant, featuring higher robustness towards potential PCR inhibitors and compatibility with real-time dyes. Several independently conducted studies show that HiDi® Taq DNA polymerase is ideally suited for use in asPCR in numerous research areas ranging from mutation detection to genome editing. Please see "References" below. <i>For research use and further manufacturing. Designed and manufactured under ISO13485</i>
Tested Applications	End-Point, Real-Time
Brand	myPOLS Biotec
Storage	-20°C

- References**
- Lifestyle-specific S-nitrosylation of protein cysteine thiols regulates *Escherichia coli* biofilm formation and resistance to oxidative stress.**
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- Primordial Germ Cell Migration and Histological and Molecular Characterization of Gonadal Differentiation in Pachón Cavefish *Astyanax mexicanus***
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Sex Dev. 2021 Mar 10;1-18.
Link to publication: <https://doi.org/10.1159/000513378>
- Emergence of artemisinin-resistant *Plasmodium falciparum* with kelch13 C580Y mutations on the island of New Guinea.**
Miotto O, Sekihara M, Tachibana SI, Yamauchi M, Pearson RD, Amato R, Gonçalves S, Mehra S, Noviyanti R, Marfurt J, Auburn S, Price RN, Mueller I, Ikeda M, Mori T, Hirai M, Tavul L, Hetzel MW, Laman M, Barry AE, Ringwald P, Ohashi J, Hombhanje F, Kwiatkowski DP, Mita T.
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Link to publication: <https://doi.org/10.1371/journal.ppat.1009133>
- Rapid repair of human disease-specific single-nucleotide variants by One-SHOT genome editing.**
Yokouchi Y, Suzuki S, Ohtsuki N, Yamamoto K, Noguchi S, Soejima Y, Goto M, Ishioka K, Nakamura I, Suzuki S, Takenoshita S, Era T.
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Link to publication: <https://doi.org/10.1016/j.jbiosc.2020.01.005>
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Tsukumo Y, Naito M, Suzuki T.
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Link to publication: <https://doi.org/10.1371/journal.pone.0229712>
- Eliminating primer dimers and improving SNP detection using self-avoiding molecular recognition systems.**
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Link to publication: <https://doi.org/10.1093/biomethods/bpaa004>
- Compensation of Disabled Organogeneses in Genetically Modified Pig Fetuses by Blastocyst Complementation.**
Matsunari H, Watanabe M, Hasegawa K, Uchikura A, Nakano K, Umeyama K, Masaki H, Hamanaka S, Yamaguchi T, Nagaya M, Nishinakamura R, Nakauchi H, Nagashima H.
Stem Cell Reports. 2020 Jan 14;14(1):21-33
Link to publication: <https://doi.org/10.1016/j.stemcr.2019.11.008>
- A New Protocol for the Detection of Sterigmatocystin-producing *Aspergillus* Section *Versicolores* Using a High Discrimination Polymerase.**
Kubosaki A, Kobayashi N, Watanabe M, Yoshinari T, Takatori K,

Kikuchi Y, Hara-Kudo Y, Terajima J, Sugita-Konishi Y.
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 Link to publication: <https://doi.org/10.1016/j.algal.2019.101469>

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 Genome Res. 2018 Feb;28(2):223-230
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One-step generation of multiple gene knock-outs in the

diatom *Phaeodactylum tricornutum* by DNA-free genome editing.

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Content	S pack: 250 U, 5 U/μl, 1 x 50 μl HiDi® Taq DNA polymerase; 1 x 1.25 ml 10x HiDi reaction buffer
	M pack: 250 U, 5 U/μl, 1 x 200 μl HiDi® Taq DNA polymerase; 2 x 1.25 ml 10x HiDi reaction buffer