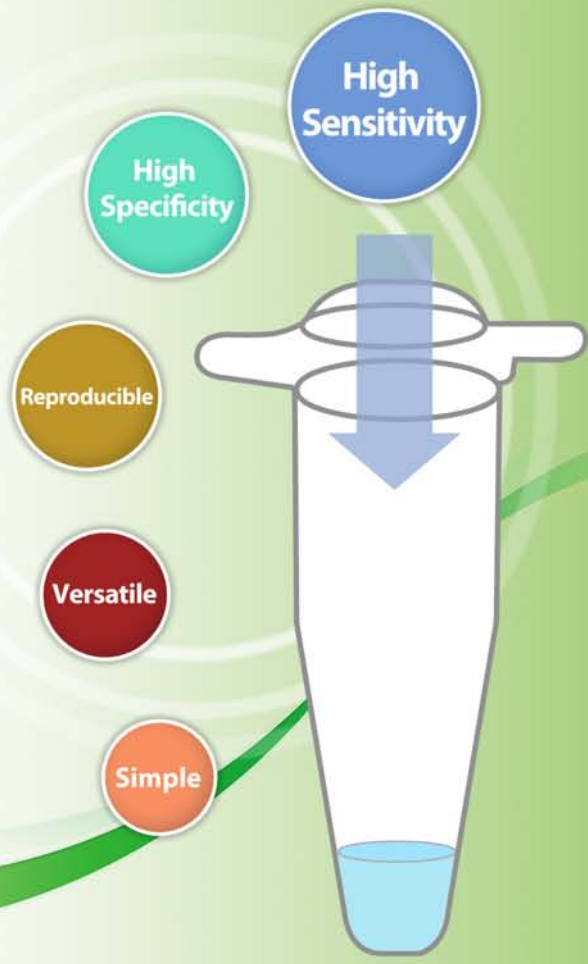


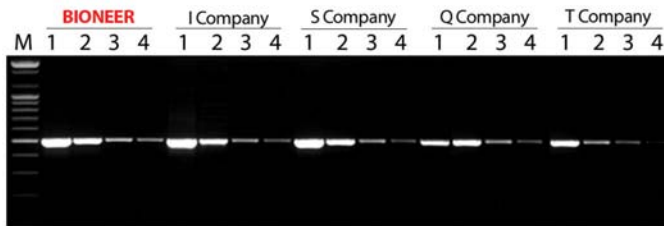
Empower YOUR PCR
with **AccuPower[®]**
Taq Series.



AccuPower® Taq PCR PreMix

Convenient, versatile lyophilized PCR Master Mix containing *Taq* DNA polymerase.
Great for routine PCR, SYBR-Green or dual-labeled probe based qPCR, primer extension, TA cloning, and more.

- 5' to 3' exonuclease activity
- 3' A overhang
- Amplify ~ 8 kb from human gDNA and 10 kb from Lambda DNA



Target Gene: Human myc
Lane M: 100 bp DNA Ladder
Lane 1: 10 ng of human total cDNA
Lane 2: 1 ng of human total cDNA
Lane 3: 100 pg of human total cDNA
Lane 4: 10 pg of human total cDNA

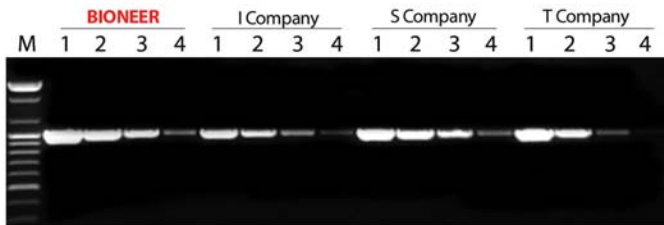
Comparison of PCR amplification efficiency between *AccuPower® Taq* PCR PreMix from Bioneer and other suppliers' PCR Master Mixes.

AccuPower® ProFi Taq PCR PreMix

Accurate cloning & expression

Ready-to-use lyophilized Master Mix featuring higher processivity than *Pfu* and higher fidelity than native *Taq*.
Great for long-range gDNA amplification and PCR using difficult templates or low-copy targets.

- 5' to 3' & 3' to 5' exonuclease activity
- 3' A overhang
- Amplify ~ 21 kb from human gDNA and 30 kb from Lambda DNA



Lane M: 100 bp DNA Ladder
Lane 1: 10 ng of human genomic DNA
Lane 2: 1 ng of human genomic DNA
Lane 3: 100 pg of human genomic DNA
Lane 4: 10 pg of human genomic DNA

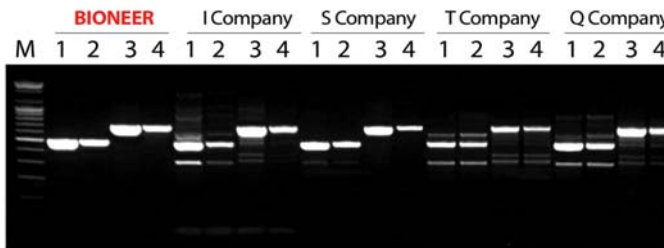
Comparison of PCR amplification efficiency between *AccuPower® ProFi Taq* PCR PreMix from Bioneer and other suppliers' PCR Master Mix.

AccuPower® PyroHotStart Taq PCR PreMix

Low copy amplification

Lyophilized Master Mix providing maximized specificity, improved sensitivity, and versatility.
Great for multiplex PCR, *HotStart* PCR, and SYBR-Green or dual-labeled probe based qPCR.

- 5' to 3' exonuclease activity
- 3' A overhang
- Amplify ~ 5 kb from human gDNA and 10 kb from Lambda DNA



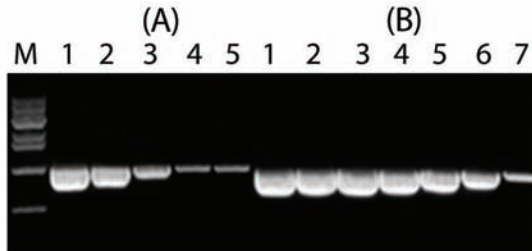
Lane M: 100 bp DNA Ladder
Lane 1: 100 ng DNA, PrP primer set (500 bp)
Lane 2: 10 ng DNA, PrP primer set (500 bp)
Lane 3: 100 ng DNA, PrP primer set (705 bp)
Lane 4: 10 ng DNA, PrP primer set (705 bp)

Comparison of PCR amplification specificity between *AccuPower® PyroHotStart Taq* PCR PreMix from Bioneer and other suppliers' *HotStart* PCR Master Mixes.

Taq DNA Polymerase

Offering improved yield, sensitivity, versatility, and robust performance.
Ideal for routine PCR, SYBR-Green or dual-labeled probe based qPCR, primer extension, TA cloning, and more.

- 5' to 3' exonuclease activity
- 3' A overhang
- Amplify ~ 8 kb from human gDNA and 10 kb from Lambda DNA



Lane M: 1 kb DNA Ladder
Lane 1: 100 ng template DNA
Lane 2: 10 ng template DNA
Lane 3: 1 ng template DNA
Lane 4: 100 pg template DNA
Lane 5: 10 pg template DNA
Lane 6: 1 pg template DNA
Lane 7: 100 fg template DNA

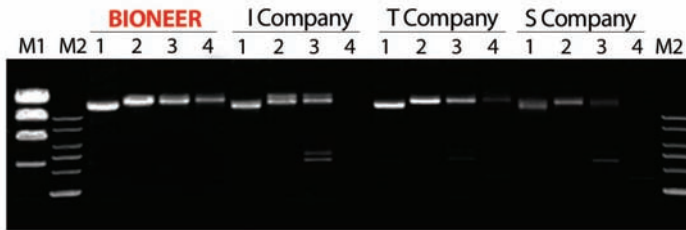
Enzyme activity(1 U) for *Taq* DNA Polymerase was tested on human genomic DNA (A) and Lambda DNA (B) template.

ProFi Taq DNA Polymerase

Accurate cloning & expression

Featuring higher processivity than *Pfu* and higher fidelity than native *Taq*.
Great for long-range gDNA amplification and PCR using difficult templates or low-copy targets.

- 5' to 3' & 3' to 5' exonuclease activity
- 3' A overhang
- Amplify ~ 21 kb from human gDNA and 30 kb from Lambda DNA



Lane M1: Lambda/*Hind* III Marker
Lane M2: 1 kb DNA Ladder
Lane 1: 15 kb fragment
Lane 2: 20 kb fragment
Lane 3: 25 kb fragment
Lane 4: 30 kb fragment

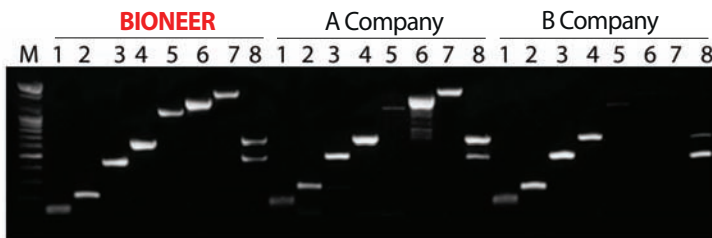
Comparison of PCR amplification of long targets between *ProFi Taq* DNA polymerase from Bioneer and other suppliers' DNA polymerases.

HotStart Taq DNA Polymerase

Low copy amplification

Providing maximized specificity, improved sensitivity and versatility.
Great for multiplex PCR, HotStart PCR, and SYBR-Green or dual-labeled probe based qPCR.

- 5' to 3' exonuclease activity
- 3' A overhang
- Amplify ~ 5 kb from human gDNA and 10 kb from Lambda DNA



Lane M: 100 bp DNA Ladder
Lane 1: 139 bp fragment
Lane 2: 211 bp fragment
Lane 3: 447 bp fragment
Lane 4: 618 bp fragment
Lane 5: 1,082 bp fragment
Lane 6: 1,296 bp fragment
Lane 7: 1,561 bp fragment
Lane 8: Multiplex PCR of 447 and 618 bp fragments

Performance comparison between Bioneer HotStart *Taq* DNA polymerase and competitors' HotStart DNA polymerases.

Specifications of *AccuPower® Taq Series*

Product	Product Size		Yield	Specificity	Fidelity	GC Rich
	Lambda DNA	Human gDNA				
<i>Taq</i> PCR PreMix	≤ 10 kb	≤ 8 kb	★★★	★★★	★★★	★★★
<i>ProFi Taq</i> PCR PreMix	≤ 30 kb	≤ 21 kb	★★★★	★★★	★★★★	★★★
<i>PyroHotStart Taq</i> PCR PreMix	≤ 10 kb	≤ 5 kb	★★★	★★★★★	★★★	★★★★

Ordering Information

Cat. no.	Product Description	Size
K-2601	<i>AccuPower® Taq</i> PCR PreMix, 0.2 ml 8-tube strip w/ cap, 20 µl/rxn	96 tubes
K-2602	<i>AccuPower® Taq</i> PCR PreMix, 0.2 ml 8-tube strip w/ cap, 20 µl/rxn	480 tubes
K-2609	<i>Taq</i> PCR Master Mix, 2x solution	2.5 ml
K-2610	<i>Taq</i> PCR Master Mix, 2x solution	25 ml
E-2011	<i>Taq</i> DNA Polymerase, 10x Reaction Buffer with MgCl ₂ , 10 mM dNTPs	500 units
E-2011-3	<i>Taq</i> DNA Polymerase, 10 x Reaction Buffer, 20 mM MgCl ₂	500 units
E-2013	<i>Taq</i> DNA Polymerase, 10x Reaction Buffer with MgCl ₂ , 10 mM dNTPs	2,000 units
E-2013-1	<i>Taq</i> DNA Polymerase, 10x Reaction Buffer without MgCl ₂ , 10 mM dNTPs, 20 mM MgCl ₂	2,000 units
K-2631	<i>AccuPower® ProFi Taq</i> PCR PreMix, 8-strip tube w/ cap, 20 µl/rxn	96 tubes
K-2632	<i>AccuPower® ProFi Taq</i> PCR PreMix, 8-strip tube w/ cap, 20 µl/rxn	480 tubes
E-2201	<i>ProFi Taq</i> DNA Polymerase, 10x Reaction Buffer with MgCl ₂ , 10 mM dNTPs	250 units
E-2202	<i>ProFi Taq</i> DNA Polymerase, 10x Reaction Buffer without MgCl ₂ , 10 mM dNTPs, 20 mM MgCl ₂	250 units
E-2205	<i>ProFi Taq</i> DNA Polymerase, 10x Reaction Buffer with MgCl ₂ , 10 mM dNTP	1,000 units
E-2206	<i>ProFi Taq</i> DNA Polymerase, 10x Reaction Buffer without MgCl ₂ , 10 mM dNTPs, 20 mM MgCl ₂	1,000 units
K-2611	<i>AccuPower® PyroHotStart Taq</i> PCR PreMix, 0.2 ml 8-tube strip w/ cap, 20 µl/rxn	96 tubes
K-2612	<i>AccuPower® PyroHotStart Taq</i> PCR PreMix, 0.2 ml 8-tube strip w/ cap, 20 µl/rxn	480 tubes
E-2017	<i>HotStart Taq</i> DNA Polymerase, 10x Reaction Buffer with MgCl ₂ , 10 mM dNTPs	250 units
E-2017-1	<i>HotStart Taq</i> DNA Polymerase, 10x Reaction Buffer with MgCl ₂ , 10 mM dNTPs	1,000 units
E-2017-2	<i>HotStart Taq</i> DNA Polymerase, 10x Reaction Buffer with MgCl ₂ , 10 mM dNTPs	500 units

AccuPower® is a registered trademark of Bioneer Corporation.

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