

BD Advantage™ 2 PCR Kits Protocol-at-a-Glance (PT3281-2)

Please read the User Manual before using this abbreviated protocol. The Protocol-at-a-Glance is provided for your convenience, but is not intended for first-time users.

BD TITANIUM™ Taq

- Routine PCR
- RT-PCR
- Insert screening
- Primer extension

BD Advantage™ HF 2

- High-fidelity amplification

BD Advantage™ GC 2

- GC-rich sequences

BD Biosciences Clontech PCR Systems

BD Advantage™ 2 PCR Enzyme Systems

- Long & accurate PCR
- High-performance cloning
- RACE applications
- cDNA library construction
- cDNA subtraction

BD Advantage™ Genomic

- Long & accurate PCR with highly complex templates

Product	Size	Cat. No.	New Cat. No.
BD Advantage™ 2 Polymerase Mix	100 rxns	8430-1	639201
	500 rxns	8430-2	639202
BD Advantage™ 2 PCR Kit	30 rxns	K1910-y	639207
	100 rxns	K1910-1	639206
BD TITANIUM™ Taq DNA Polymerase	100 rxns	8434-1	639208
	500 rxns	8434-2	639209
BD TITANIUM™ Taq PCR Kit	30 rxns	K1915-y	639211
	100 rxns	K1915-1	639210
BD Advantage™ HF 2 PCR Kit	10 rxns	K1914-y	639124
	100 rxns	K1914-1	639123
BD Advantage™ GC 2 Polymerase Mix	100 rxns	8433-1	639114
BD Advantage™ GC 2 PCR Kit	10 rxns	K1913-y	639120
	100 rxns	K1913-1	639119
BD Advantage™ Genomic Polymerase Mix	100 rxns	8418-1	639110
BD Advantage™ Genomic PCR Kit	30 rxns	K1906-y	639104
	100 rxns	K1906-1	639103

(PR34898)



BD Biosciences

United States
877.232.8995

Canada
888.259.0187

Europe
32.53.720.211

Japan
81.3.5324.9609

Asia Pacific
65.6861.0633

Latin America/Caribbean
55.11.5185.9995

BD Biosciences Clontech
1020 East Meadow Circle
Palo Alto, CA 94303-4230
Technical Support (US)
E-mail: tech@clontech.com
www.bdbiosciences.com

BD Biosciences Clontech

BD Advantage™ 2 PCR Kits

Protocol-at-a-Glance *continued*

PCR Master Mix

We recommend making a PCR master mix for the total number of reactions (n) plus one extra.

1X (n)	____ X (n + 1)	Component
_____	_____	PCR-Grade Water
5 µl	_____	10X BD Advantage 2 PCR Buffer*
		—or—
5 µl	_____	10X BD Advantage 2 SA PCR Buffer*
1 µl	_____	50X dNTP Mix (10 mM each)
1 µl	_____	50X BD Advantage 2 Polymerase Mix
_____	_____	_____
_____	_____	_____
_____	_____	_____
50 µl	_____	Total Volume

* Use either one of the two 10X Buffers shown. See User Manual (PT3281-1) for additional information.

Recommended Cycling Parameters

Use the following guidelines when setting up your initial experiments with BD Sprint Advantage PCR Products. These are general guidelines—the optimal parameters may vary.

Target Size	Cycle Parameters*	Target Size	Cycle Parameters*
<1 kb:	• 95°C for 1 min • 25–35 cycles 95°C for 30 sec 68°C for 1 min • 68°C for 1 min	5–9 kb:	• 95°C for 1 min • 25–35 cycles 95°C for 30 sec 68°C for 6 min • 68°C for 6 min
1–5 kb:	• 95°C for 1 min • 25–35 cycles 95°C for 30 sec 68°C for 3 min • 68°C for 3 min	10–20 kb:	• 95°C for 1 min • 25–35 cycles 95°C for 30 sec 68°C for 12 min • 68°C for 12 min

* See User Manual for additional information on cycle optimization.

Recommendations for Electrophoresis

Expected insert size range	Recommended % agarose	Recommended DNA size markers
0.3–1.5 kb	1.5	φX174/ <i>Hae</i> III
0.5–10 kb	1.2	1-kb DNA ladder
>5 kb	0.8	λ/ <i>Hind</i> III

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