

# End Cloning Worries Forever!

Stably clone and maintain any DNA with our transcription-free CloneSmart® technology.

- Low backgrounds (<0.1%) eliminate the need for blue/white screening, etc.
- Elimination of LacZ/ccdB genes and promoters protects the insert from transcription.
- Vector stability is improved through the positioning of strong transcription terminators.

Small size means less interference with downstream applications:

- Vector size is ~2.0 kb for plasmids and ~7.2 kb for BAC's.

	Applications	Insert Size	Insert Site	Benefits	Level of Difficulty
<p><b>Big®Easy v2.0 Linear Cloning System</b></p>	<p>Very difficult DNA Large inserts Cam<sup>r</sup></p> <p>Very difficult DNA Large inserts Kan<sup>r</sup></p>	Up to 30 kb	NotI Blunt	<p>Highest fidelity cloning system known Stably clone any DNA</p>	<p>Most problematic DNA</p> <p>Least problematic</p>
<p><b>CopyRight™ pEZ BAC Cloning Kits</b></p>	<p>BAC cloning (pSMART FOS vector available for fosmid cloning)</p>	Up to 300 kb	BamHI Blunt	<p>High fidelity cloning Clone at single-copy; induce multiple copies of insert when ready to prep DNA Insert more stable due to no transcription</p>	
<p><b>CloneSmart® LCKan Blunt Cloning Kits</b></p> <p>* Available with Amp<sup>r</sup>.</p>	<p>Problematic DNA</p>	Up to 12 kb	Blunt	<p>Stably maintains problematic DNA at 20–50 copies/cell Clone: Toxic genes Strong promoters AT- or GC-rich DNAs Kanamycin or Ampicillin selection</p>	
<p><b>cSMART cDNA Cloning Kits</b></p>	<p>cDNA libraries</p>	Up to 10 kb	EcoRI/ NotI Blunt/ Blunt/ Blunt/ Blunt	<p>Much more accurate cDNA libraries and microarrays No cloning bias High insert stability T7 Promoter</p>	
<p><b>CloneSmart HCKan Blunt Cloning Kits</b></p> <p>* Available with Amp<sup>r</sup>.</p>	<p>General cloning and small problematic DNA</p>	Up to 10 kb	Blunt	<p>High-fidelity cloning Greater insert stability Wide insert range No colony screening No lost clones Kanamycin or Ampicillin selection</p>	

ORDER INFORMATION

Product Name	Size	Cat. No.
<b>BigEasy® v2.0 Linear Cloning Kits (pJAZZ® vector)</b>		
pJAZZ-OC Blunt Vector with BigEasy-TSA Electrocompetent Cells (SOLOs)	5 rxns 10 rxns 20 rxns	43018-1 43018-2 43018-3
pJAZZ-OK Blunt Vector with BigEasy-TSA Electrocompetent Cells (SOLOs)	5 rxns 10 rxns 20 rxns	43036-1 43036-2 43036-3
pJAZZ-OC NotI Vector with BigEasy-TSA Electrocompetent Cells (SOLOs)	5 rxns 10 rxns 20 rxns	43024-1 43024-2 43024-3
pJAZZ-OK NotI Vector with BigEasy-TSA Electrocompetent Cells (SOLOs)	5 rxns 10 rxns 20 rxns	43042-1 43042-2 43042-3
BigEasy-TSA Electrocompetent Cells (≥ 4 x 10 <sup>10</sup> cfu/μg) (SOLOs)	6 rxns 12 rxns 24 rxns	60224-1 60224-2 60224-3
<b>CopyRight® v2.0 BAC Cloning Kits</b>		
pSMART® BAC BamHI with BAC-Optimized Replicator™ v2.0 Electrocompetent Cells (DUOs)	10 rxns 20 rxns	42030-1 42030-2
pSMART BAC EcoRI with BAC-Optimized Replicator v2.0 Electrocompetent Cells (DUOs)	10 rxns 20 rxns	42031-1 42031-2
pSMART® BAC HindIII with BAC-Optimized Replicator v2.0 Electrocompetent Cells (DUOs)	10 rxns 20 rxns	42032-1 42032-2
pEZ® BAC BamHI with BAC-Optimized Replicator™ v2.0 Electrocompetent Cells (DUOs) without cells	10 rxns 20 rxns 10 rxns	42001-1 42001-2 42012-1
CopyRight pEZ BAC Blunt Cloning Kit with Replicator Electrocompetent Cells (DUOs) without cells	10 rxns 20 rxns 10 rxns	42005-1 42005-2 42016-1
CopyRight pEZ BAC BamHI Cloning Kit with Replicator Electrocompetent Cells (DUOs) without cells	10 rxns 20 rxns 10 rxns	42001-1 42001-2 42012-1
<b>BAC-Optimized Replicator™ v2.0</b> Electrocompetent Cells (≥ 4 x 10 <sup>10</sup> cfu/μg)	12 rxns 24 rxns	60210-1 60210-2
<b>cSMART™ cDNA Cloning Kits</b>		
cDNA-RN Elite Cloning Kit with 10G Elite Chemically Competent Cells	10 rxns 20 rxns	41015-1 41015-2
cDNA-RN Supreme Cloning Kit with 10G Supreme Chemically Competent Cells	10 rxns 20 rxns	41018-1 41018-2
cDNA-RN Kit with 10G Chemically Competent Cells	10 rxns 20 rxns	41009-1 41009-2
<b>cSMART™ cDNA BluntN Kits</b>		
cDNA-BluntN Elite Cloning Kit with 10G Elite Chemically Competent Cells	10 rxns 20 rxns	41036-1 41036-2
cSMART cDNA-BluntN Supreme Cloning Kit with 10G Supreme Chemically Competent Cells	10 rxns 20 rxns	41038-1 41038-2
cSMART cDNA-BluntN Kit with 10G Chemically Competent Cells	10 rxns 20 rxns	41032-1 41032-2
<b>cSMART™ cDNA Blunt Kits</b>		
cDNA-Blunt Elite Cloning Kit with 10G Elite Chemically Competent Cells	10 rxns 20 rxns	41047-1 41047-2
cDNA-Blunt Supreme Cloning Kit with 10G Supreme Chemically Competent Cells	10 rxns 20 rxns	41049-1 41049-2
cDNA-Blunt Kit with 10G Chemically Competent Cells	10 rxns 20 rxns	41042-1 41042-2

Product Name	Size	Cat. No.
<b>Kanamycin-Resistant Vector Kits</b>		
<b>CloneSmart HCKan Blunt Cloning Kit</b>		
with 10G ELITE Electrocompetent cells (SOLOs)	10 rxns 20 rxns	40708-1 40708-2
with 10G ELITE Electrocompetent cells (DUOs)	10 rxns 20 rxns	40706-1 40706-2
with 10G SUPREME Electrocompetent cells (SOLOs)	10 rxns 20 rxns	40719-1 40719-2
with 10G SUPREME Electrocompetent cells (DUOs)	10 rxns 20 rxns	40717-1 40717-2
with 10G Chemically Competent cells (SOLOs)	10 rxns 20 rxns	40730-1 40730-2
with 10G Chemically Competent cells (DUOs)	10 rxns 20 rxns	40728-1 40728-2
without cells	20 rxns 40 rxns	40704-2 40704-4
<b>CloneSmart LCKan Blunt Cloning Kit</b>		
with 10G ELITE Electrocompetent cells (SOLOs)	10 rxns 20 rxns	40834-1 40834-2
with 10G ELITE Electrocompetent cells (DUOs)	10 rxns 20 rxns	40832-1 40832-2
with 10G SUPREME Electrocompetent cells (SOLOs)	10 rxns 20 rxns	40845-1 40845-2
with 10G SUPREME Electrocompetent cells (DUOs)	10 rxns 20 rxns	40843-1 40843-2
with 10G Chemically Competent cells (SOLOs)	10 rxns 20 rxns	40856-1 40856-2
with 10G Chemically Competent cells (DUOs)	10 rxns 20 rxns	40854-1 40854-2
without cells	20 rxns 40 rxns	40821-2 40821-4
<b>Ampicillin-Resistant Vector Kits</b>		
<b>CloneSmart HCAmp Blunt Cloning Kit</b>		
with 10G ELITE Electrocompetent cells (SOLOs)	10 rxns 20 rxns	40054-1 40054-2
with 10G ELITE Electrocompetent cells (DUOs)	10 rxns 20 rxns	40052-1 40052-2
with 10G SUPREME Electrocompetent cells (SOLOs)	10 rxns 20 rxns	40065-1 40065-2
with 10G SUPREME Electrocompetent cells (DUOs)	10 rxns 20 rxns	40063-1 40063-2
with 10G Chemically Competent cells (SOLOs)	10 rxns 20 rxns	40076-1 40076-2
with 10G Chemically Competent cells (DUOs)	10 rxns 20 rxns	40074-1 40074-2
without cells	20 rxns 40 rxns	40041-2 40041-4
<b>CloneSmart LCAmp Blunt Cloning Kit</b>		
with 10G ELITE Electrocompetent cells (SOLOs)	10 rxns 20 rxns	40313-1 40313-2
with 10G ELITE Electrocompetent cells (DUOs)	10 rxns 20 rxns	40311-1 40311-2
with 10G SUPREME Electrocompetent cells (SOLOs)	10 rxns 20 rxns	40324-1 40324-2
with 10G SUPREME Electrocompetent cells (DUOs)	10 rxns 20 rxns	40322-1 40322-2
with 10G Chemically Competent cells (SOLOs)	10 rxns 20 rxns	40335-1 40335-2
with 10G Chemically Competent cells (DUOs)	10 rxns 20 rxns	40333-1 40333-2
without cells	20 rxns 40 rxns	40300-2 40300-4

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