



	Blue-White Capable	Phage T1 Resistant	Restriction-Deficient (EndA ⁻ /RecA ⁻)	Inducible Plasmid Copy Number	Clone Methylated DNA (RMS)	Antibiotic-Resistance	F' Episome	Electrocompetent: Efficiency	Chemically Competent: Efficiency	
Routine Cloning and Library Construction										
E. cloni® 10G (Classic)	✓	✓	✓	✓	✓	✗	✗	Str	≥5 × 10 ⁹	10 ⁶ –10 ⁹
E. cloni® 10G (Elite)	✓	✓	✓	✓	✓	✗	✗	Str	≥2 × 10 ¹⁰	–
E. cloni® 10G (Supreme)	✓	✓	✓	✓	✓	✗	✗	Str	≥4 × 10 ¹⁰	–
E. cloni® 10G F' (Elite)	✓	✓	✓	✓	✓	✗	✓	Str	≥2 × 10 ¹⁰	–
E. cloni® 5-alpha	✓	✓	✓	✗	✗	✗	✗	–	–	≥1 × 10 ⁸
Unstable Inserts or Toxic Gene Products										
Copycutter™ EPI400™	✓	✓	✓	✓	✓	✓	✗	Str	≥1 × 10 ¹⁰	≥1 × 10 ⁷
Large Inserts, Plasmids, or Fosmids										
TransforMax™ EC100™	✓	✗	✓	✓	✓	✗	✗	Str	≥1 × 10 ¹⁰	≥5 × 10 ⁸
TransforMax™ EPI300™	✓	✗	✓	✓	✓	a	✗	Str	≥1 × 10 ¹⁰	≥5 × 10 ⁸
TransforMax™ EPI300™-T1R	✓	✓	✓	✓	✓	a	✗	Str	≥1 × 10 ¹⁰	–
BAC Cloning										
E. cloni® BAC-Optimized 10G	✓	✗	✓	✓	✓	✗	✗	Str	≥1 × 10 ¹⁰	–
Phage Display										
TG1	✓	✗	✗	✗	d	✗	✓	–	≥4 × 10 ¹⁰	–
ER2738	✓	✓	✗	✗	d	✗	✓	Tet	≥2 × 10 ¹⁰	–
SS320 (MC1061 F')	✓	✗	✗	✗	e	✗	✓	Tet, Str	≥4 × 10 ¹⁰	–
MC1061 F-	✗	✗	✗	✗	e	✗	✗	Str	≥4 × 10 ¹⁰	–
CRISPR sgRNA Libraries and Lentiviral Plasmid Cloning										
Endura™	✗	✗	f	✗	g	✗	✗	Str	≥1 × 10 ¹⁰	≥1 × 10 ⁷

Amp, ampicillin; Cam, chloramphenicol; Str, streptomycin; Tet, tetracycline

a: Requires OriV vectors (e.g., CopyRight® and pCCFOS)
d: mcrB⁻ only; not suitable for cloning eukaryotic genomic DNA

e: mcrA⁻ mcrB⁻; not suitable for cloning eukaryotic genomic DNA
f: RecA13 only
g: mcrB⁻ mrr⁻; not suitable for cloning eukaryotic genomic DNA



For research or investigational use only.





	Background Expression Control Primary Promoter	Low Endotoxin	Antibiotic Resistance	Electrocompetent: Efficiency	Chemically Competent: Efficiency	
Protein Expression: Routine						
E. cloni® EXPRESS BL21(DE3)	T7	Ø	Ø	–	≥5 × 10 ⁹	≥1 × 10 ⁷
HI-Control™ BL21(DE3)	T7	✓	Ø	Gen	–	≥1 × 10 ⁷
HI-Control™ 10G	P _{lac^f} P _{tac^f} P _{trc^f} T5 _{lac} rhaP _{BAD}	✓	Ø	Gen, Str	–	≥1 × 10 ⁹
ClearColi® BL21(DE3)	T7	Ø	✓	–	≥1 × 10 ⁹	–
Protein Expression: Toxic Products						
OverExpress™ C41(DE3)	T7	Ø	Ø	–	≥1 × 10 ⁹	≥1 × 10 ⁶
OverExpress™ C41(DE3) pLysS	T7	✓	Ø	Cam	–	≥1 × 10 ⁶
OverExpress™ C43(DE3)	T7	Ø	Ø	–	≥1 × 10 ⁹	≥1 × 10 ⁶
OverExpress™ C43(DE3) pLysS	T7	✓	Ø	Cam	–	≥1 × 10 ⁶

Cam, chloramphenicol; Gen, gentamicin; Str, streptomycin; rhaPBAD, rhamnose-inducible promoter



Not finding a strain suitable for your application? Do you need a different size or bulk purchase?

Lucigen's Custom Competent Cell Preparation Services provide:

- **Support**—Personalized service from initial discussion through delivery
- **Flexibility**—Choose from the following options to match your specific needs:
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 - » **Format:** 96-well plates or tubes of your choice
 - » **Strains:** Lucigen or any BSL1 *E. coli* strain of choice that meets your application needs
- **Transformation Efficiency**—High efficiencies that match your needs, up to an industry-leading 4×10^{10} cfu/μg DNA
- **Rapid Turnaround Time**—Average 2-3 weeks
- **Quality**—ISO 13485 Certified with 10+ years of manufacturing excellence, available for OEM and partnerships



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