

Competent cells selection guide

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Routine cloning and library construction	8	7	7	9	y 9	. 0	*	**	24	<i>y</i> 4
E. cloni [®] 10G (Classic)	✓	✓	✓	✓	✓	Ø	Ø	Str	≥5 × 10 ⁹	10 ⁶ -10 ⁹
E. cloni 10G (Elite)	✓	✓	✓	✓	✓	Ø	Ø	Str	≥2 × 10 ¹⁰	_
E. cloni 10G (Supreme)	✓	✓	✓	✓	✓	Ø	Ø	Str	≥4 × 10 ¹⁰	_
E. cloni 10G F' (Elite)	✓	✓	✓	✓	✓	Ø	✓	Str	≥2 × 10 ¹⁰	_
E. cloni 5-alpha	✓	✓	✓	Ø	Ø	Ø	Ø	_	_	≥1 × 10 ⁸
Unstable inserts or toxic gene products										
Copycutter [™] EPI400 [™]	✓	✓	✓	✓	✓	✓	Ø	Str	≥1 × 10 ¹⁰	≥1 × 10 ⁷
Large inserts, plasmids, or fosmids										
TransforMax™ EC100™	✓	Ø	✓	✓	✓	Ø	Ø	Str	≥1 × 10 ¹⁰	≥5 × 10 ⁸
TransforMax EPI300™	✓	Ø	✓	✓	✓	а	Ø	Str	≥1 × 10 ¹⁰	≥5 × 10 ⁸
TransforMax EPI300™-T1R	✓	✓	✓	✓	✓	а	Ø	Str	≥1 × 10 ¹⁰	_
BAC cloning										
BAC-Optimised Replicator™ v2.0	✓	Ø	✓	✓	✓	а	Ø	Amp, Str	≥1 × 10 ¹⁰	_
E. cloni BAC-Optimised 10G	✓	Ø	✓	✓	✓	Ø	Ø	Str	≥1 × 10 ¹⁰	_
Phage display										
TG1	✓	Ø	Ø	Ø	d	Ø	✓	_	≥4 × 10 ¹⁰	_
ER2738	✓	✓	Ø	Ø	d	Ø	✓	Tet	≥2 × 10 ¹⁰	_
SS320 (MC1061 F')	✓	Ø	Ø	Ø	е	Ø	✓	Tet, Str	≥4 × 10 ¹⁰	_
MC1061 F-	Ø	Ø	Ø	Ø	е	Ø	Ø	Str	≥4 × 10 ¹⁰	_
CRISPR sgRNA libraries and lentiviral plasmid cloning										
Endura™	Ø	Ø	f	Ø	g	Ø	Ø	Str	≥1 × 10 ¹⁰	≥1 × 10 ⁷

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

g: mcrB- mrr-; not suitable for cloning eukaryotic genomic DNA



a: Requires OriV vectors (e.g., CopyRight® and pCCFOS)

b: Requires IPTG

c: Only with pJAZZ® vectors

d: mcrB- only; not suitable for cloning eukaryotic genomic DNA

e: mcrA- mcrB-; not suitable for cloning eukaryotic genomic DNA

f: RecA13 only



Primary A	ind exoression controller	Antica endoro	Siotic res	Electrock office of the state o	Chonically Confidence of the Choracter o	ngo encynr.
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	$P_{ ext{lac}}, P_{ ext{tac}}, P_{ ext{trc}}, T5_{ ext{lac}}$ $rhaP_{ ext{BAD}}$	✓	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, rhamr	nose-ina	ucible p	romoter		

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