

Competent cells selection guide

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|---|------------|-----|-----|-----|-----|-----|----|----------|-----------------------|----------------------------------|
| Routine cloning and library construction | | | | | | | | | | |
| E. cloni® 10G (Classic) | ✓ | ✓ | ✓ | ✓ | ✓ | Ø | Ø | Str | ≥5 × 10° | 10 ⁶ —10 ⁹ |
| E. cloni 10G (Elite) | ✓ | 1 | 1 | ✓ | ✓ | Ø | Ø | Str | ≥2 × 10¹º | _ |
| E. cloni 10G (Supreme) | ✓ | 1 | ✓ | ✓ | ✓ | Ø | Ø | Str | ≥4 × 10¹0 | _ |
| E. cloni 10G F' (Elite) | ✓ | 1 | 1 | ✓ | ✓ | Ø | 1 | Str | ≥2 × 10¹0 | _ |
| E. cloni 5-alpha | ✓ | 1 | 1 | Ø | Ø | Ø | Ø | - | - | ≥1 × 10 ⁸ |
| Unstable inserts or toxic gene products | | | | | | | | | | |
| Copycutter [™] EPI400 [™] | ✓ | 1 | 1 | ✓ | ✓ | ✓ | Ø | Str | ≥1 × 10 ¹⁰ | ≥1 × 10 ⁷ |
| Large inserts, plasmids, or fosmids | | | | | | | | | | |
| TransforMax™ EC100™ | ✓ | Ø | 1 | ✓ | ✓ | Ø | Ø | Str | ≥1 × 10¹0 | ≥5 × 10 ⁸ |
| TransforMax EPI300™ | ✓ | Ø | 1 | ✓ | ✓ | а | Ø | Str | ≥1 × 10¹0 | ≥5 × 10 ⁸ |
| TransforMax EPI300™-T1R | ✓ | 1 | 1 | ✓ | ✓ | а | Ø | Str | ≥1 × 10¹0 | _ |
| BAC cloning | | | | | | | | | | |
| BAC-Optimised Replicator™ v2.0 | ✓ | Ø | ✓ | ✓ | ✓ | а | Ø | Amp, Str | ≥1 × 10¹0 | _ |
| E. cloni BAC-Optimised 10G | ✓ | Ø | 1 | ✓ | ✓ | Ø | Ø | Str | ≥1 × 10¹0 | _ |
| BigEasy [™] -TSA | b | 1 | 1 | ✓ | ✓ | С | Ø | Amp, Str | ≥2 × 10¹0 | _ |
| Phage display | | | | | | | | | | |
| TG1 | ✓ | Ø | Ø | Ø | d | Ø | 1 | _ | ≥4 × 10¹0 | _ |
| ER2738 | ✓ | ✓ | Ø | Ø | d | Ø | 1 | Tet | ≥2 × 10¹º | _ |
| SS320 (MC1061 F') | ✓ | Ø | Ø | Ø | е | Ø | 1 | Tet, Str | ≥4 × 10¹0 | _ |
| MC1061 F- | Ø | Ø | Ø | Ø | е | Ø | Ø | Str | ≥4 × 10¹0 | - |
| CRISPR sgRNA libraries and lentiviral plasm | id cloning | | | | | | | | | |
| Endura™ | Ø | Ø | f | Ø | g | Ø | Ø | Str | ≥1 × 10¹0 | ≥1 × 10 ⁷ |
| Site-directed mutagenesis | | | | | | | | | | |
| CJ236 | Ø | Ø | Ø | Ø | Ø | Ø | 1 | Cam | ≥1 × 10 ⁹ | - |
| | | | | | | | | | | |

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



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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

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



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|--|--|-----------------|-------------|---------------------|----------------------|----------------------|--|
| 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} , P _{tac} , P _{trc} , T5 _{lac} rhaP _{BAD} | ✓ | Ø | Gen, Str | _ | ≥1 × 10° | |
| ClearColi® BL21(DE3) | T7 | Ø | ✓ | _ | ≥1 × 10 ⁹ | _ | |
| Protein expression: toxic products | | | | | | | |
| OverExpress™ C41(DE3) | Т7 | Ø | Ø | _ | ≥1 × 10° | ≥1 × 10 ⁶ | |
| OverExpress C41(DE3) pLysS | T7 | ✓ | Ø | Cam | _ | ≥1 × 10 ⁶ | |
| OverExpress C43(DE3) | T7 | Ø | Ø | _ | ≥1 × 10° | ≥1 × 10 ⁸ | |
| OverExpress C43(DE3) pLysS | Т7 | ✓ | Ø | Cam | _ | ≥1 × 10 ⁶ | |
| Cam, chloramphenicol; Gen, gentamicin; Str, streptomycin; rhaPBAD, rhamnose-inducible promoter | | | | | | | |

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