

Choose Your Competent Cells With Confidence

Difficult Cloning Competent Cells*

Large or Ligated DNA

200314	XL10-Gold Ultracompetent	$\geq 5 \times 10^9$
200315	XL10-Gold Kan ^r Ultracompetent	$\geq 5 \times 10^9$
200317	XL10-Gold Kan ^r Ultracompetent	$\geq 5 \times 10^9$
200159	ElectroTen-Blue Electroporation	$\geq 3 \times 10^{10}$

Unstable Cloning

200152	SURE 2 Supercompetent	$\geq 1 \times 10^9$
200238	SURE	$\geq 5 \times 10^8$
200227	SURE Electroporation	$\geq 1 \times 10^{10}$

Toxic Cloning

4-Fold Reduction of Copy Number

200171	ABLE C	$5 \times 10^6 - 2 \times 10^7$
200161	ABLE C Electroporation	$\geq 5 \times 10^9$

10-Fold Reduction of Copy Number

200172	ABLE K	$5 \times 10^6 - 2 \times 10^7$
200162	ABLE K Electroporation	$\geq 5 \times 10^9$

Genomic DNA or Methylated cDNA

200151	XL2-Blue MRF ^r Ultracompetent	$\geq 5 \times 10^9$
200230	XL1-Blue MRF ^r Supercompetent	$\geq 1 \times 10^9$
200248	XL1-Blue MRF ^r Kan ^r Supercompetent	$\geq 1 \times 10^9$
200138	XL1-Blue MRF ^r Kan ^r Library Pack	$\geq 1 \times 10^9$
200158	XL1-Blue MRF ^r Electroporation	$\geq 1 \times 10^{10}$
200229	XL1-Blue MR Supercompetent	$\geq 1 \times 10^9$

Phage Display

200123	TG1 Electroporation	$\geq 1 \times 10^{10}$
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Difficult Cloning Pack

	XL10-Gold Kan ^r Ultracompetent	
230247	SURE 2 Supercompetent	
	ABLE K	

ABLE Kit

200170	ABLE C
	ABLE K

ABLE Electroporation Kit

200160	ABLE C Electroporation
	ABLE K Electroporation

*Efficiency = cfu/ μ g pUC18

General Cloning Competent Cells*

Routine Cloning

200150	XL2-Blue Ultracompetent	$\geq 5 \times 10^9$
200236	XL1-Blue Supercompetent	$\geq 1 \times 10^9$
200228	XL1-Blue Electroporation	$\geq 1 \times 10^{10}$
200249	XL1-Blue	$\geq 1 \times 10^8$
200130	XL1-Blue Subcloning Grade	$\geq 1 \times 10^6$

Conveniently Packaged

230350	SoloPack Gold Supercompetent	$\geq 1 \times 10^9$
230325	SoloPack Gold	$\geq 1 \times 10^8$
200324	96Pack Gold	$\geq 1 \times 10^8$

Generate Unmethylated DNA

200247	SCS110	$\geq 5 \times 10^6$
200239	JM110	$\geq 5 \times 10^6$

Random Mutagenesis

200129	XL1-Red	$\geq 1 \times 10^6$
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Classic Strains

200231	SCS1 Supercompetent	$\geq 1 \times 10^9$
200232	AG1	$\geq 1 \times 10^8$
200233	NM522	$\geq 1 \times 10^8$
200234	JM101	$\geq 1 \times 10^8$
200235	JM109	$\geq 1 \times 10^8$

Difficult Cloning Pack

	XL2-Blue Ultracompetent	
230248	XL2-Blue MRF ^r Ultracompetent	
	SoloPack Gold	

*Efficiency = cfu/ μ g pUC18

Protein Expression Competent Cells*

General Protein Expression

230132	BL21-Gold (DE3)	$\geq 1 \times 10^8$
200131	BL21 (DE3)	$\geq 1 \times 10^6$

Codon Bias

Universal Strain

230280	BL21-CodonPlus (DE3)-RIPL	$\geq 1 \times 10^6$
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High GC Content

230255	BL21-CodonPlus (DE3)-RP	$\geq 1 \times 10^7$
230275	BL21-CodonPlus (DE3)-RP-X	$\geq 1 \times 10^7$
230250	BL21-CodonPlus-RP	$\geq 1 \times 10^7$

High AT Content

230245	BL21-CodonPlus (DE3)-RIL	$\geq 1 \times 10^7$
230265	BL21-CodonPlus (DE3)-RIL-X	$\geq 1 \times 10^7$
230240	BL21-CodonPlus-RIL	$\geq 1 \times 10^7$

Toxic Proteins

230134	BL21-Gold (DE3) pLysS	$\geq 1 \times 10^8$
200132	BL21 (DE3) pLysS	$\geq 1 \times 10^6$
230130	BL21-Gold	$\geq 1 \times 10^8$
200133	BL21	$\geq 1 \times 10^6$

Solubility & Codon Bias

230193	ArcticExpress (DE3)-RIL	$\geq 5 \times 10^6$
230194	ArcticExpress (DE3)-RP	$\geq 5 \times 10^6$
230195	ArcticExpress RIL	$\geq 5 \times 10^6$
230196	ArcticExpress RP	$\geq 5 \times 10^6$

Solubility

230191	ArcticExpress	$\geq 5 \times 10^6$
230192	ArcticExpress (DE3)	$\geq 5 \times 10^6$

Generate Phosphorylated Proteins

200124	TKX1	$\geq 5 \times 10^7$
200134	TKB1	$\geq 5 \times 10^5$

Protein Expression Pack

	BL21 (DE3)	
230246	BL21-Gold (DE3)	
	BL21-CodonPlus (DE3)-RIPL	
	BL21-Gold (DE3) pLysS	

*Efficiency = cfu/ μ g pUC18

Artwork by David Goodsell, 2010:
mgl.scripps.edu/people/goodsell

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