

Genotypes of Bacterial Strains

Genotypes			Genotypes		
Comp Cell	Notes	Genotype	Comp Cell	Notes	Genotype
96Pack Gold	b,c	Tet ^r Δ (<i>mcrA</i>)183 Δ (<i>mcrCB</i> - <i>hsdSMR</i> - <i>mrr</i>)173 <i>endA1 supE44 thi-1 recA1 gyrA96 relA1 lac</i> Hte [F' <i>proAB lacI</i> ^h Δ <i>M15 Tn10</i> (Tet ^r) Amy Cam ^r]	BL21-CodonPlus (DE3)-RPX	b	<i>E. coli</i> B F <i>ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>metA</i> ::Tn5(kan ^r) <i>dcm</i> + Tet ^r <i>gal</i> λ (DE3) <i>endA</i> Hte [argU <i>proL</i> Cam ^r]
ABLE C	a,b	<i>E. coli</i> C <i>lac</i> (LacZω) [Kan ^r McrA ⁻ McrCB ⁻ McrF ⁻ Mrr ⁻ HsdR(r _K ⁻ m _K ⁻)] [F' <i>proAB lacI</i> ^h Δ <i>M15 Tn10</i> (Tet ^r)]	BL21-Gold	b	<i>E. coli</i> B F <i>ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>dcm</i> + Tet ^r <i>gal endA</i> Hte
ABLE K	a,b	<i>E. coli</i> C <i>lac</i> (LacZω) [Kan ^r McrA ⁻ McrCB ⁻ McrF ⁻ Mrr ⁻ HsdR(r _K ⁻ m _K ⁻)] [F' <i>proAB lacI</i> ^h Δ <i>M15 Tn10</i> (Tet ^r)]	BL21-Gold (DE3)	b	<i>E. coli</i> B F <i>ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>dcm</i> + Tet ^r <i>gal</i> λ (DE3) <i>endA</i> Hte
AG1	b	<i>recA1 endA1 gyrA96 thi-1 hsdR17</i> (r _K ⁻ m _K ⁻) <i>supE44 relA1</i>	BL21-Gold (DE3) pLysS	b	<i>E. coli</i> B F <i>ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>dcm</i> + Tet ^r <i>gal</i> λ (DE3) <i>endA</i> Hte [pLysS Cam ^r]
BB4		LE392.23 [F' <i>lacI</i> ^h Δ <i>M15 proAB Tn10</i> (Tet ^r)]	C600		e14(McrA ⁻) <i>supE44 thi-1 thr-1 leuB6 lacY1 tonA21</i>
BJ5183	a	<i>endA1 sbcBC recBC galK met thi-1 bioT hsdR</i> (Str ^r)	C600hfl		e14(McrA ⁻) <i>supE44 thi-1 thr-1 leuB6 lacY1 tonA21 hflA150</i> ::Tn10
BL21	b	<i>E. coli</i> B F <i>dcm ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>gal</i>	DP50		<i>tonA53 dapD8 lacY1 glnV44</i> (<i>supE44</i>) Δ(<i>gal</i> - <i>uvrB</i>)47 <i>tyrT58</i> (<i>supF58</i>) <i>gyrA29</i> Δ(<i>thyA57</i>) <i>hsdS3</i> (r _K ⁻ m _K ⁻) <i>mcrA</i>
BL21(DE3)	b	<i>E. coli</i> B F <i>dcm ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>gal</i> λ(DE3)	ElectroTen-Blue	a, c	Δ(<i>mcrA</i>)183 (<i>mcrCB</i> <i>hsdSMR</i> <i>mrr</i>)173 <i>endA1 supE44 thi-1 recA1 gyrA96 relA1 lac</i> Kan ^r [F' <i>proAB lacI</i> ^h Δ <i>M15 Tn10</i> (Tet ^r)]
BL21(DE3) pLysS	b	<i>E. coli</i> B F <i>dcm ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>gal</i> λ(DE3) [pLysS Cam ^r]	HB101		<i>supE44 ara14 galK2 lacY1</i> Δ(<i>gpt</i> - <i>proA</i>)62 <i>rpsL20</i> (Str ^r) <i>xyl-5 mtl-1 recA13</i> Δ(<i>mcrC</i> <i>mr</i> ^r) HsdS(r m)
BL21-CodonPlus-RIL	b	<i>E. coli</i> B F <i>ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>dcm</i> + Tet ^r <i>gal</i> λ <i>endA</i> Hte [argU <i>ileY leuW</i> Cam ^r]	JM101	b	<i>supE thi-1</i> Δ(<i>lac</i> - <i>proAB</i>) [F' <i>traD36 proAB lacI</i> ^h Δ <i>M15</i>]
BL21-CodonPlus (DE3)-RIL	b	<i>E. coli</i> B F <i>ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>dcm</i> + Tet ^r <i>E. coli gal</i> λ (DE3) <i>endA</i> Hte [argU <i>ileY leuW</i> Cam ^r]	JM109	b	e14(McrA ⁻) <i>recA1 endA1 gyrA96 thi-1 hsdR17</i> (r _K ⁻ m _K ⁻) <i>supE44 relA1</i> Δ(<i>lac</i> - <i>proAB</i>) [F' <i>traD36 proAB lacI</i> ^h Δ <i>M15</i>]
BL21-CodonPlus (DE3)-RIPL		<i>E. coli</i> B F <i>ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>dcm</i> + Tet ^r <i>gal</i> λ (DE3) <i>endA</i> Hte [argU <i>proL</i> Cam ^r] [argU <i>ileY leuW</i> Strep/Spec ^r]	JM110	b	<i>rpsL</i> (Str ^r) <i>thr leu thi-1 lacY galK galT ara tonA tsx dam dcm supE44</i> Δ(<i>lac</i> - <i>proAB</i>) F' <i>traD36 proAB lacI</i> ^h Δ <i>M15</i>]
BL21-CodonPlus-RP	b	<i>E. coli</i> B F <i>ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>dcm</i> + Tet ^r <i>gal</i> λ <i>endA</i> Hte [argU <i>proL</i> Cam ^r]	LE392	b	e14(McrA ⁻) <i>hsdR514 supE44 supF58 lacY1</i> or Δ(<i>lacIZY</i>)6 <i>galK2 galT22 metB1 trpR55</i>
BL21-CodonPlus (DE3)-RP		<i>E. coli</i> B F <i>ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>dcm</i> + Tet ^r <i>gal</i> λ (DE3) <i>endA</i> Hte [argU <i>proL</i> Cam ^r]	NM514		<i>hsdR514</i> (r _K ⁻ m _K ⁻) <i>argH galE galX lycB7 strA</i> (Hfl+)
BL21-CodonPlus (DE3)-RIL-X	b	<i>E. coli</i> B F <i>ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>dcm</i> + Tet ^r <i>gal</i> λ (DE3) <i>endA</i> Hte <i>metA</i> ::Tn5(Kan ^r) [argU <i>ileY leuW</i> Cam ^r]			

LEGEND

Genes carry a mutated allele unless listed as present on the F' episome, which is wild-type.

Strains are λ⁻ and F⁻ unless otherwise designated.

Strains shown in red are available as bacterial glycerol stocks.

a. Available as electroporation-competent frozen bacteria.

b. Available as high-efficiency competent frozen bacteria.

c. An uncharacterized mutation enhances the α-complementation for more intense blue color on plates with X-gal and IPTG.

d. pMC9 is pBR322 with *lacI*^Q inserted.

e. Su^r indicates nonsuppressing.

Genotypes of Bacterial Strains, continued

Genotypes			Genotypes		
Comp Cell	Notes	Genotype	Comp Cell	Notes	Genotype
NM522	b	<i>supE thi-1 Δ(lac-proAB) Δ(mcrB-hsdSM)5</i> (r _K ⁻ m _K ⁻) [F' <i>proAB lacI^hΔM15</i>]	XL1-Blue MRF'	a,b,c	<i>Δ(mcrA)183 Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 recA1 gyrA96 relA1 lac</i> [F' <i>proAB lacI^hΔM15 Tn10</i> (Tet')]
NM554		<i>recA13 araD139 Δ(ara-leu)7696 Δ(lac)I7A galU galK hsdR rpsL</i> (Str ^r) <i>mcrA mcrB</i>	XL1-Blue MRF' Kan	b,c	<i>Δ(mcrA)183 Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 recA1 gyrA96 relA1 lac</i> [F' <i>proAB lacI^hΔM15 Tn5</i> (Kan')]
P2392		LE392 (P2 lysogen)	XL1-Red		<i>endA1 gyrA96 thi-1 hsdR17 supE44 relA1 lac mutD5 mutS mutT Tn10</i> (Tet')
SCS1	b	<i>recA1 endA1 gyrA96 thi-1 hsdR17</i> (r _K ⁻ m _K ⁻) <i>supE44 relA1</i>	XL2-Blue	b,c	<i>recA1 endA1 gyrA96 thi-1 hsdR17 supE44 relA1 lac</i> [F' <i>proAB lacI^hΔM15 Tn10</i> (Tet') Amy Cam']
SCS110	b	<i>rpsL</i> (Str ^r) <i>thr leu endA thi-1 lacY galK galT ara tonA tsx dam dcm supE44 Δ(lac-proAB)</i> [F' <i>traD36 proAB lacI^hΔM15</i>]	XL2-Blue MRF'	b,c	<i>Δ(mcrA)183 Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 recA1 gyrA96 relA1 lac</i> [F' <i>proAB lacI^hΔM15 Tn10</i> (Tet') Amy Cam']
SoloPack Gold	b,c	Tet ^r Δ (<i>mcrA</i>)183 Δ(<i>mcrCB-hsdSMR-mrr</i>)173 <i>endA1 supE44 thi-1 recA1 gyrA96 relA1 lac Hte</i> [F' <i>proAB lacI^hΔM15 Tn10</i> (Tet') Amy Cam']	XL10-Gold	b,c	Tet ^r Δ (<i>mcrA</i>)183 Δ(<i>mcrCB-hsdSMR-mrr</i>)173 <i>endA1 supE44 thi-1 recA1 gyrA96 relA1 lac Hte</i> [F' <i>proAB lacI^hΔM15 Tn10</i> (Tet') Amy Cam']
SOLR	e	e14-(McrA-) Δ(<i>mcrCB-hsdSMR-mrr</i>)171 <i>sbuC recB recJ uvrC umuC::Tn5</i> (Kan ^r) <i>lac gyrA96 relA1 thi-1 endA1 λ^r</i> [F' <i>proAB lacI^hΔM15</i>] ^c Su ⁻	XL10-Gold Kan ^r	b,c	Tet ^r Δ (<i>mcrA</i>)183 Δ(<i>mcrCB-hsdSMR-mrr</i>)173 <i>endA1 supE44 thi-1 recA1 gyrA96 relA1 lac Hte</i> [F' <i>proAB lacI^hΔM15 Tn10</i> (Tet') Tn5 (Kan ^r) Amy]
SURE	a,b,c	e14-(McrA-) Δ(<i>mcrCB-hsdSMR-mrr</i>)171 <i>endA1 supE44 thi-1 gyrA96 relA1 lac recB recJ sbuC umuC::Tn5</i> (Kan ^r) <i>uvrC</i> [F' <i>proAB lacI^hΔM15 Tn10</i> (Tet')]	XLmut S Kan ^s		<i>Δ(mcrA)183 Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 gyrA96 relA1 lac mutS::Tn10</i> (Tet') [F' <i>proAB lacI^hΔM15 Tn5</i>]
SURE 2	b,c	e14-(McrA-) Δ(<i>mcrCB-hsdSMR-mrr</i>)171 <i>endA1 supE44 thi-1 gyrA96 relA1 lac recB recJ sbuC umuC::Tn5</i> (Kan ^r) <i>uvrC</i> [F' <i>proAB lacI^hΔM15 Tn10</i> (Tet') Amy Cam']	XLmut S Kan ^r		<i>Δ(mcrA)183 Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 gyrA96 relA1 lac mutS::Tn10</i> (Tet') [F' <i>proAB lacI^hΔM15 Tn5</i> (Kan')]
TG1	a	<i>supE thi-1 Δ(lac-proAB) Δ(mcrB-hsdSM)5</i> (r _K ⁻ m _K ⁻) [F' <i>traD36 proAB lacI^hΔM15</i>]	XLOLR	c,e	<i>Δ(mcrA)183 Δ(mcrCB-hsdSMR-mrr)173 endA1 thi-1 recA1 gyrA96 relA1 lac</i> [F' <i>proAB lacI^hΔM15 Tn10</i> (Tet')] ^c Su ⁻ λ ^r
TKB1	b	<i>E. coli</i> B F <i>dcm ompT hsdS</i> (r _B ⁻ m _B ⁻) <i>gal λ</i> (DE3) [pTK Tet']	XPORT		<i>Δ(mcrA)183 Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 recA1 gyrA96 relA1 lac</i> [F' <i>proAB lacI^hΔM15</i>]
TKX1	b	<i>Δ(mcrA)183 Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 recA1 gyrA96 relA1 lac</i> [F' <i>proAB lacI^hΔM15 Tn5</i> (Kan')] ^c [pTK Tet']	Y1088	d	e14-(McrA-) Δ(<i>lac</i>)U169 <i>supE supF hsdR metB trpR tonA21 proC::Tn5</i> (Kan ^r) [pMC9 Amp ^r Tet']
XL1-Blue	a,b,c	<i>recA1 endA1 gyrA96 thi-1 hsdR17 supE44 relA1 lac</i> [F' <i>proAB lacI^hΔM15 Tn10</i> (Tet')]	Y1089	d	<i>Δ(lac)U169 Δ(lon) araD139 strA hflA150::Tn10</i> (Tet') [pMC9 Amp ^r Tet']
XL1-Blue MR	b,c	<i>Δ(mcrA)183 Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 recA1 gyrA96 relA1 lac</i>	Y1089r-		Y1089 <i>mcrB</i>
XL1-Blue MRA	c	<i>Δ(mcrA)183 Δ(mcrCB-hsdSMR-mrr)173 endA1 supE44 thi-1 gyrA96 relA1 lac</i>	Y1090	d	<i>Δ(lac)U169 Δ(lon) araD139 strA supF mcrA trpC22::Tn10</i> (Tet') [pMC9 Amp ^r Tet']
XL1-Blue MRA (P2)	c	XL1-Blue MRA (P2 lysogen)	Y1090r-		Y1090 <i>mcrB hsdR</i>
LEGEND Genes carry a mutated allele unless listed as present on the F' episome, which is wild-type. Strains are λ ⁻ and F ⁻ unless otherwise designated. Strains shown in red are available as bacterial glycerol stocks.			a. Available as electroporation-competent frozen bacteria. b. Available as high-efficiency competent frozen bacteria. c. An uncharacterized mutation enhances the α-complementation for more intense blue color on plates with X-gal and IPTG. d. pMC9 is pBR322 with <i>lacI^h</i> inserted. e. Su ⁻ indicates nonsuppressing.		