

Table S1 Strains

Strain	Description	<i>cfp</i> position	<i>yfp</i> position	Structure
MG1655	Yale <i>E. coli</i> genetic stock center (CGSC#7740)	N/A	N/A	N/A
HL716*	MG1655 + <i>lacIq</i> at <i>intS</i> site	N/A	N/A	N/A
HL1745§	MG1655 + PLlacO-1::T710:: <i>cfp</i> at <i>intS</i>	<i>intS</i>	N/A	Single color
HL1852§	HL1745 + PLlacO-1::T710:: <i>yfp</i> at <i>galk</i>	<i>intS</i>	<i>galk</i>	Non-clustered
HL1951§	MG1655 + PLlacO-1::T710:: <i>yfp</i> at <i>galk</i>	N/A	<i>galk</i>	Single color
HL2028*	HL1852 + Δ <i>lacI</i>	<i>intS</i>	<i>galk</i>	Non-clustered
HL2960	MG1655 + PLlacO-1::T710:: <i>cfp</i> at <i>galk</i>	N/A	<i>galk</i>	Single color
HL3355*	MG1655 + KanR::PLlacO-1::T710:: <i>cfp</i> at <i>gtrAB</i>	<i>gtrAB</i>	N/A	Single color
HL3360	HL2960 + PLlacO-1::T710:: <i>yfp</i> at <i>intS</i>	<i>galk</i>	<i>intS</i>	Non-clustered
HL3368*	MG1655 + KanR::PLlacO-1::T710:: <i>yfp</i> at <i>galM</i>	N/A	<i>galM</i>	Single color
HL3515*	HL3355 + T1 terminator::PLlacO-1::T710:: <i>yfp</i> ::Asp terminator at <i>intS</i>	<i>gtrAB</i>	<i>intS</i>	Codirectional: <i>cfp</i> upstream of <i>yfp</i>
HL3546*	HL3368 + T1 terminator::PLlacO-1::T710:: <i>cfp</i> ::Asp terminator at <i>galk</i>	<i>galk</i>	<i>galM</i>	Codirectional: <i>yfp</i> upstream of <i>cfp</i>
HL3573	HL3515 + (Δ T1 terminator::PLlacO-1)	<i>gtrAB</i>	<i>intS</i>	Operon: <i>cfp</i> upstream of <i>yfp</i>
HL3578	HL3546 + (Δ T1 terminator::PLlacO-1)	<i>galk</i>	<i>galM</i>	Operon: <i>yfp</i> upstream of <i>cfp</i>
HL3640	HL3515 + Δ <i>lacI</i>	<i>gtrAB</i>	<i>intS</i>	Codirectional: <i>cfp</i> upstream of <i>yfp</i>
HL3641	HL3546 + Δ <i>lacI</i>	<i>galk</i>	<i>galM</i>	Codirectional: <i>yfp</i> upstream of <i>cfp</i>
HL3642	HL3573 + Δ <i>lacI</i>	<i>gtrAB</i>	<i>intS</i>	Operon: <i>cfp</i> upstream of <i>yfp</i>
HL3643	HL3578 + Δ <i>lacI</i>	<i>galk</i>	<i>galM</i>	Operon: <i>yfp</i> upstream of <i>cfp</i>
HL3953	HL3355 + T1 terminator::PLtetO-1::T710:: <i>yfp</i> ::Asp terminator at <i>intS</i>	<i>gtrAB</i>	<i>intS</i>	Non-coregulated, codirectional: <i>cfp</i> upstream of <i>yfp</i>
HL3954	HL3368 + T1 terminator::PLtetO-1::T710:: <i>cfp</i> ::Asp terminator at <i>galk</i>	<i>galk</i>	<i>galM</i>	Non-coregulated, codirectional: <i>yfp</i> upstream of <i>cfp</i>
HL4302	HL1951 + T1 terminator::PLtetO-1::T710:: <i>cfp</i> ::Asp terminator inserted at <i>galM</i>	<i>galM</i>	<i>galk</i>	Non-coregulated, divergent

Previously reported strains in Lim *et al.* 2011 (*) and Block *et al.* 2012 (§).

Table S1 continued Strains

Strain	Description	<i>cfp</i> position	<i>yfp</i> position	Structure
HL4342	HL1745 + T1 terminator::PLtetO-1::T710::yfp::Asp terminator inserted at <i>gtrAB</i>	<i>intS</i>	<i>gtrAB</i>	Non-coregulated, divergent
HL4343	HL1745 + PLlacO-1::T710::yfp::T7 terminator::T1 terminator inserted at <i>gtrAB</i>	<i>intS</i>	<i>gtrAB</i>	Divergent
HL4348	HL1951 + PLlacO-1::T710::cfp::T7 terminator::T1 terminator inserted at <i>galM</i>	<i>galM</i>	<i>galK</i>	Divergent
HL5056	HL3355 + T1 terminator at <i>intS</i>	<i>gtrAB</i>	N/A	Single color
HL5057	HL3368 + T1 terminator at <i>galK</i>	N/A	<i>galM</i>	Single color
HL5086	HL5056 + T1 terminator::PLlacO-1::T710::yfp::Asp terminator at <i>galK</i>	<i>gtrAB</i>	<i>galK</i>	Non-clustered
HL5087	HL5057 + T1 terminator::PLlacO-1::T710::cfp::Asp terminator at <i>intS</i>	<i>intS</i>	<i>galM</i>	Non-clustered
HL5113	HL5056 + T1 terminator::PLtetO-1::T710::yfp::Asp terminator at <i>galK</i>	<i>gtrAB</i>	<i>galK</i>	Non-coregulated, non-clustered
HL5149	HL5057 + T1 terminator::PLtetO-1::T710::cfp::Asp terminator at <i>intS</i>	<i>intS</i>	<i>galM</i>	Non-coregulated, non-clustered
HL5553	HL5086 + $\Delta lacI$	<i>gtrAB</i>	<i>galK</i>	Non-clustered
HL5554	HL5087 + $\Delta lacI$	<i>intS</i>	<i>galM</i>	Non-clustered
HL5555	HL4343 + $\Delta lacI$	<i>intS</i>	<i>gtrAB</i>	Divergent
HL5556	HL4348 + $\Delta lacI$	<i>galM</i>	<i>galK</i>	Divergent