

### Cloning kits

#### TrueBlue® PCR cloning kit

TrueBlue® Technology consists of a newly modified lacZα gene fragment that is capable of providing 100% accuracy in blue/white selection. This is accomplished through the TrueBlue® Color Selection Cloning Sites positioned within the lacZα coding sequence lacZα coding sequence (codons 11-36) which do not permit the formation of false negatives, i.e. blue colonies that contain DNA inserts, potentially valuable clones which will be lost using conventional technologies. These TrueBlue® Color Selection Cloning Sites, enable the recovery of all cloned DNA fragments. No other vector has this configuration and capability. Thus, TrueBlue® is the only system available today that offers complete accuracy and reliability in rapid detection of cloned DNA.

#### The MicroCartridge™ System

The MicroCartridge™ reagent delivery system is a cylindrical unit, 15 mm high and 7 mm in diameter. It is comprised of three parts : (i) the body which contains four chambers into which four different pre-formulated solutions can be loaded, (ii) the flared piston which functions as a capping device for the four chambers, and (iii) the release button which is connected to the flared piston and functions as a device that opens the four chambers when pushed. Reagents contained in the chambers of a MicroCartridge™ are ejected into a reaction mixture simply by inserting the MicroCartridge™ unit into a microfuge tube, depressing the release button and microfuging for a few seconds. The MicroCartridge™ system eliminates pipetting errors and cross contamination.

- ◆ Color-coded release button for easy identification
- ◆ Flanged tube acts as tight-fitting cap
- ◆ Four chambers contain individual reagents pre-dispensed in their correct volumes
- ◆ Piston opens the chambers when the release button is pressed down

Description	Cat.#	Qty
TrueBlue® MicroCartridge™ PCR Cloning Kit XL	R58140	10 tests
MicroCartridge™ Blunting / Ligation Kit	R58150	10 tests

### Cloning vectors

#### Plasmid pAT153

MW : 3.67 kb

- ◆ Ampicillin and tetracycline resistance
- ◆ Non mobilizable

High copy derivative of pBR322 where the *bom* (basis of mobility) site has been deleted. So this non-mobilizable plasmid is more readily contained than pBR322.

- Unique restriction sites: BamHI, EcoRI, HindIII, SalI.
- Distributed in Escherichia coli K12 AB2463 F- $\rightarrow$ thr-1, leu-6, thi-1, lacY1, galK2, ara-14, xyl-5, mtl-1, proA2, his4, argE3, str-31, tsx-33, supE44, lambda- rfbD1, kdgK51, rac- recA13,
- Marker : Ap<sup>r</sup>, Tc<sup>r</sup>

Description	Cat.#	Qty
Plasmid pAT153	BM9760	1 Unit

#### Plasmid pBR322

MW : 4.36 kb

- ◆ A well-characterized vector.
- ◆ Ampicillin and tetracycline resistant
- The plasmid pBR322 is one of the most commonly used *E.coli* cloning vectors
- Marker : Ap<sup>r</sup>, Tc<sup>r</sup>

Description	Cat.#	Qty
pBR322, 1 mg/ml solution	T53080	100 $\mu$ l



#### Related products

Description	Cat.#
pTrueBlue® Plasmid	900700
10 $\mu$ g DNA in 50ml TE	
pTrueBlue®-rop Plasmid	968400
10 $\mu$ g DNA in 50ml TE	
TrueBlue®-BAC2 Vector	958900
500 $\mu$ l glycerol culture	
M13TrueBlue® Phage RF DNA	R04420
10 $\mu$ g RF DNA in 50ml TE	
TrueBlue® T7 Promoter Primer (20mer)	R04430
0.5 A260 units	
TrueBlue® TBR1 Promoter Primer (20mer)	R04440
0.5 A260 units	