EcoExpress PiggyBac Dual-GFP-Puro

100 µL (50 ng/µL; 5 µg total DNA)

Cat No: PL0010

Shipping : Ship at ambient temperature.
Storage : Store at -20°C.

General Information

EcoExpress PiggyBac Dual-GFP-Puro is a 7,259 bp dual-promoter piggyBac transposon donor vector for mammalian expression studies. The CMV promoter is positioned upstream of the multiple cloning site, while the EF-1α core promoter drives the CopGFP-T2A-PuroR reporter and selection cassette. The map includes minimal piggyBac terminal repeats, an SV40 poly(A) signal, an ampicillin-resistance cassette, a bacterial origin and an f1 origin. It is supplied as purified plasmid DNA for research use only.

Vector Information

Vector size: 7259 bp; circular
Vector type: Dual-promoter piggyBac transposon donor vector
Promoters: CMV promoter; EF-1α core promoter
Bacterial selection: Ampicillin (AmpR)
Mammalian selection: Puromycin (PuroR)
Reporter: CopGFP; T2A links the reporter and resistance cassette
Terminal repeats: PB Minimal 3′TR and PB Minimal 5′TR
Other mapped elements: SV40 poly(A) signal; bacterial ori; f1 ori; AmpR promoter

Applications

Mammalian transgene expression studies; GFP-based monitoring of the reporter cassette; puromycin selection; stable cell-line development when used with a compatible, separately supplied piggyBac transposase.

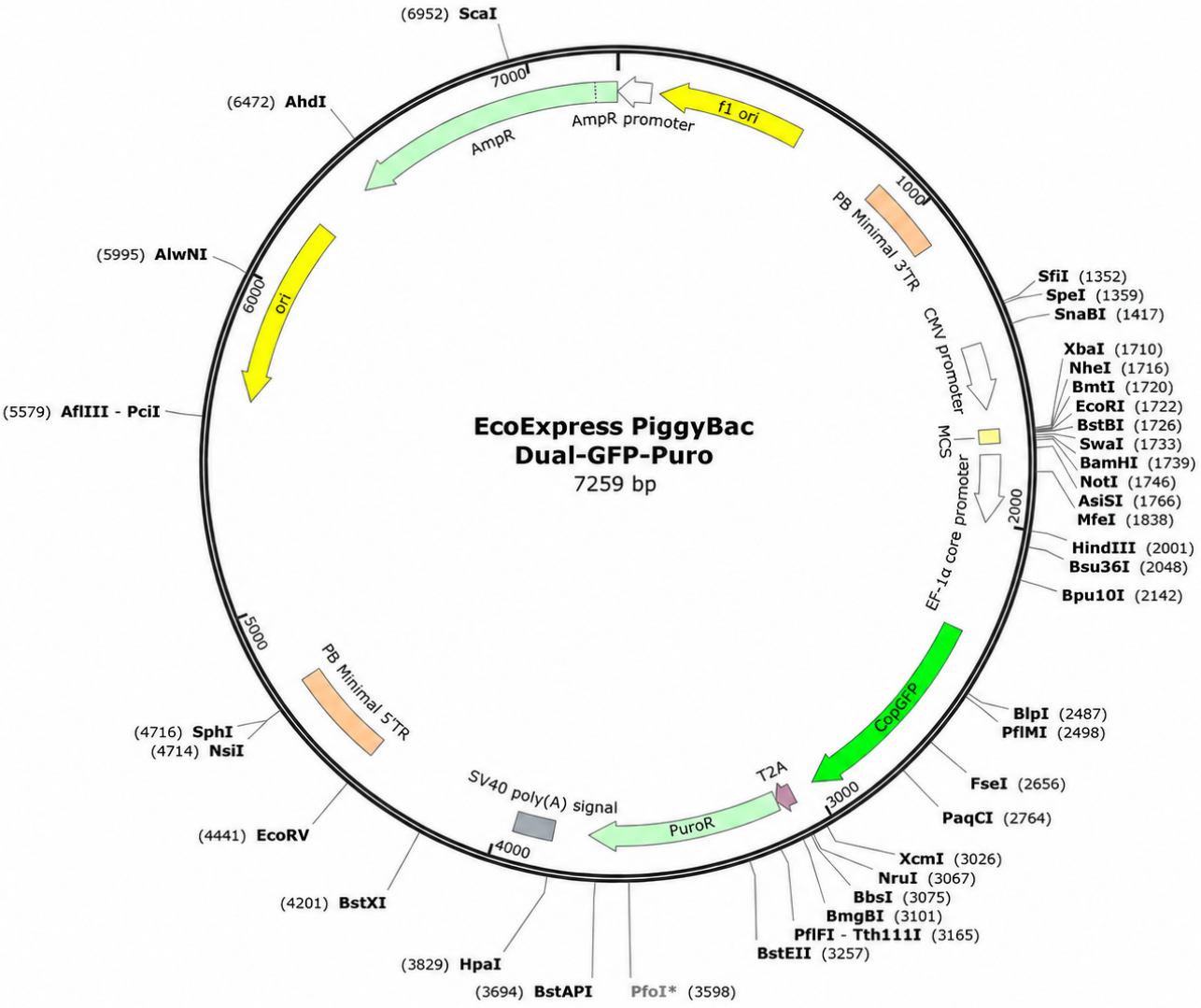
Multiple Cloning Site (MCS)

XbaI (1710) - NheI (1716) - BmtI (1720) - EcoRI (1722) - BstBI (1726) - SwaI (1733) - BamHI (1739) - NotI (1746) - AsiSI (1766). Positions are those labeled near the MCS on the supplied map.

Important Note

For Research Use Only. Not for use in diagnostic procedures. This product is the donor plasmid; a compatible piggyBac transposase must be supplied separately for transposition-mediated integration. The map does not show a transposase coding sequence. Map annotations do not replace sequence verification: confirm restriction sites, insert orientation and junctions against the full plasmid sequence before cloning. Reporter expression alone does not establish genomic integration.

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