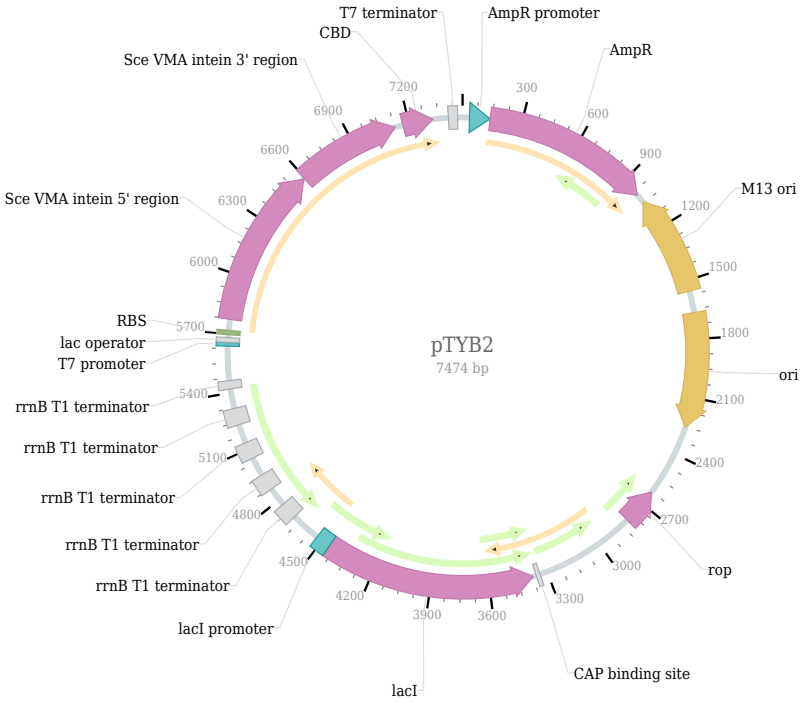
pTYB2

载体编号 Vector ID	V012776
抗性 Antibiotic Resistance	Ampicillin
长度 Length	7474 bp
载体类型 Vector Type	E.coli expression plasmid

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High copy number
启动子 Promoter	T7
克隆方法 Cloning Method	Enzyme Cut
备注 Comment	pTYB2 is an E. coli cloning and expression vector (7474 bp) used in the IMPACT™ Kit (NEB #E6901) which allows the overexpression of a target protein as a fusion to a self-cleavable affinity tag (1,2). This C-terminal fusion vector is designed for the in-frame insertion of a target gene into the polylinker upstream of an intein tag (the Sce VMA intein/chitin binding domain, 55 kDa) (1,2). This results in the fusion of the C-terminus of the target protein to the N-terminus of the intein tag. Thiol-induced self-cleavage of the intein releases the target protein from the chitin-bound intein tag, resulting in a single column purification of the target protein. For fusion of the N-terminus of the target protein to the intein tag, use pTYB21 (NEB #N6709) or pTYB22 (NEB #N6710). This vector can be used in conjuction with pTYB22 (NEB #N6710) to test which fusion constructin (N-terminal or C-terminal) maximizes the expression and yield of a target protein (3).

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复溶方法

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.