

# Construction of pCXZ14W, a Novel pUC19-derived Plasmid Encoding the *rop* Gene

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## SUPPLEMENTAL MATERIAL

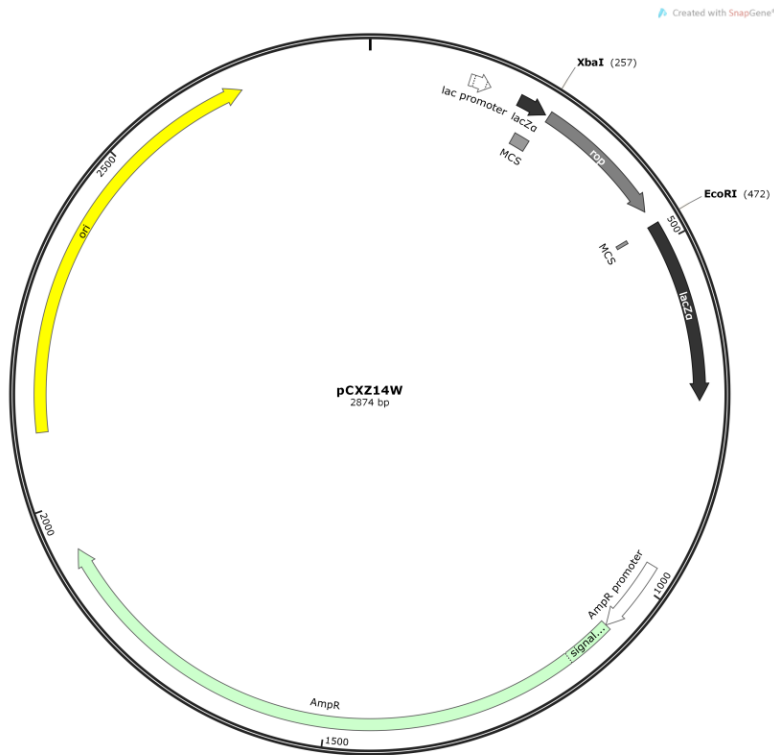
A

Download		Graphics	
Sequence ID: lc 218619 Length: 1242 Number of Matches: 1			
Range 1: 32 to 212		Graphics	
Score	Expect	Identities	Gaps
324 bits(175)	5e-93	178/181(98%)	0/181(0%)
		Strand	
		Plus/Minus	
Query	1	GTGACCAAACAGGAAAAACCGCCCTTAACATGGCCCGCTTTATCAGAAGCCAGACATTA	60
Sbjct	212	GTGACCAAACAGGAAAAACCGCCCTTAACATGGCCCGCTTTATCAGAAGCCAGACATTA	153
Query	61	ACGCTTCTGGAGAACTCAACGAGCTGGACGCGGATGAACAGGCAGACATCTGTGAATCG	120
Sbjct	152	ACGCTTCTGGAGAACTCAACGAGCTGGACGCGGATGAACAGGCAGACATCTGTGAATCG	93
Query	121	CTTCACGACCACGCTGATGAGCTTTACCGCAGCTGCCTCGCGGTTTCGGTGATGACGGT	180
Sbjct	92	CTTCACGACCACGCTGATGAGCTTTACCGCAGCTGCCTCGCGGTTTCGGTGANNACGGT	33
Query	181	G 181	
Sbjct	32	G 32	

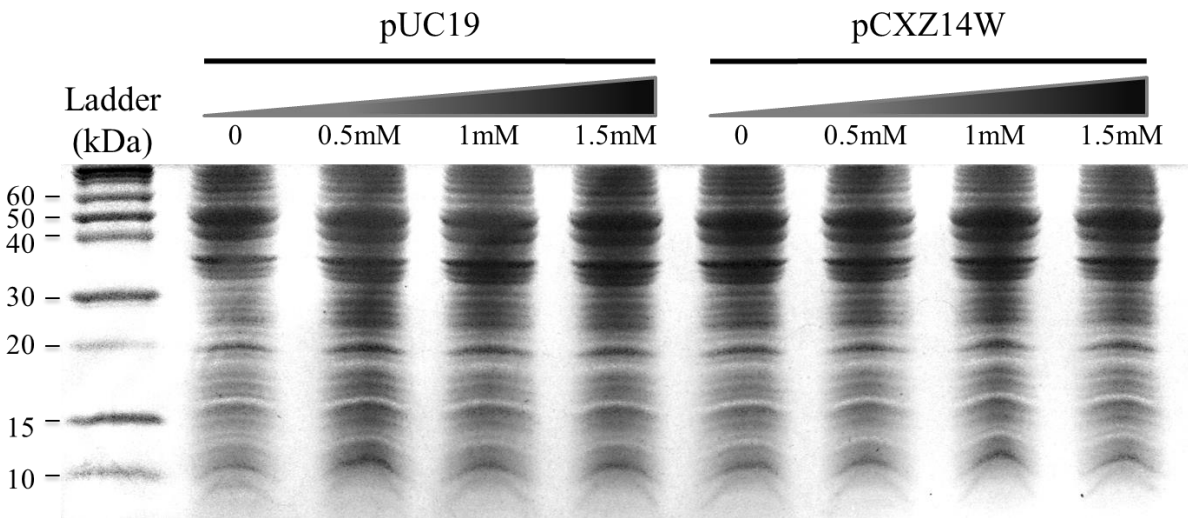
B

Download		Graphics		Sort by: E value	
1z1-M13R_R_A05.ab1					
Sequence ID: lc 16973 Length: 843 Number of Matches: 2					
Range 1: 31 to 240		Graphics			
Score	Expect	Identities	Gaps	Strand	
388 bits(210)	1e-112	210/210(100%)	0/210(0%)	Plus/Plus	
Query	1	GTGACCAAACAGGAAAAACCGCCCTTAACATGGCCCGCTTTATCAGAAGCCAGACATTA			60
Sbjct	31	GTGACCAAACAGGAAAAACCGCCCTTAACATGGCCCGCTTTATCAGAAGCCAGACATTA			90
Query	61	ACGCTTCTGGAGAACTCAACGAGCTGGACGCGGATGAACAGGCAGACATCTGTGAATCG			120
Sbjct	91	ACGCTTCTGGAGAACTCAACGAGCTGGACGCGGATGAACAGGCAGACATCTGTGAATCG			150
Query	121	CTTCACGACCACGCTGATGAGCTTTACCGCAGCTGCCTCGCGGTTTCGGTGATGACGGT			180
Sbjct	151	CTTCACGACCACGCTGATGAGCTTTACCGCAGCTGCCTCGCGGTTTCGGTGATGACGGT			210
Query	181	GAAAACTCCACCATCACCATCACCATTAA			210
Sbjct	211	GAAAACTCCACCATCACCATCACCATTAA			240

FIG S1 BLAST Alignments of correct sequence of *rop* with polyhistidine-tag fused in frame to the plasmid sequence determined by GeneWiz using universal primers M13F(-21) (A) and M13R (B).



**FIG S2 pCXZ14W plasmid map.** Two restriction sites, *XbaI* and *EcoRI* that were used in our cloning strategy are marked.



**FIG S3 18% SDS-PAGE gel showing protein expression profiles of *E. coli* DH5 $\alpha$  cells harboring either pUC19 or pCXZ14W plasmid induced by IPTG or not.** 1 ml culture of each group was pelleted and boiled in SDS sample buffer. Approximately 20  $\mu$ g protein from each group was loaded into SDS-PAGE gel. Novex<sup>®</sup> Sharp Pre-stained Protein Standard was used.