Investigation of Wza in Erythromycin Sensitivity of Escherichia coli K30 E69 by Genetic Complementation

Brian Yuen, Jerome Ting, Kevin Kang, Timothy Wong Department of Microbiology & Immunology, University of British Columbia

SUPPLEMENTAL MATERIAL

Escherichia coli K30 capsule biosynthesis cluster, partial sequence Sequence ID: <u>AF104912.3</u> Length: 16109 Number of Matches: 1

Score 2595 bits(14	Expect 05) 0.0	Identities 1405/1405(100%)	Gaps 0/1405(0%)	Strand Plus/Minus
uery 1	ACGGCAGATATTTCCT	STGCAGATCACTAAAATTGAA	TCAAACATTAGTTIGGCCATC	TC 60
bjct 3292	ACGGCAGATATTTCCT	GTGCAGATCACTAAAATTGAA	TCAAACATTAGTTTGGCCATC	C 3233
uery 61	TTAATGTATCGTACTG	TTTCCGTCATATCATGAACAC	CTGATATTGTAGGTACGAGCT	5T 120
bjct 3232	TTAATGTATCGTACTG	TTTCCGTCATATCATGAACAC	CTGATATTGTAGGTACGAGCT	3T 3173
uery 121	GATATAACACGATTCC	<u>ААССААСААСАССТССАСТСС</u>	ТТАСАТАТАСААТСТСАТААС	5T 180
bjct 3172	GATATAACACGATTCC	AACGAACAAGAGGTGCAGTCG	TTACATATACAATGTCATAAG	ST 3113
uery 181	TGTAGTTGAAATTCTG	TACCTAAGACCATTGCTGAAG	CATCCTGAGCATTCAATTGAT	AT 240
bjct 3112	TGTAGTTGAAATTCTG	TACCTAAGACCATTGCTGAAG	CATCCTGAGCATTCAATTGAT	AT 3053
Query 241	ATATCTGCTATTTTC	CTGTCCTATCACCTTTTAACT	GACGTACAACAAATATCCCTG	A 300
bjct 3052	ATATETEETATTTE	ctgtcctAtcAccttttAAct	GACGTACAACAAATATCCCTG	TÅ 2993
uery 301	GCATCGCTCATTTCTT	GAGAAATACCCTCAGCATTAC		A 360
bjct 2992	GCATCGCTCATTICT	ĠĂĠĂĂĂŤĂĊĊĊŦĊĂĠĊĂŦŦĂĊ	ĊĂĂĠĊĠĊĊŦĊŦĠĊĂĂĠĠĠŦĊĂ	A 2933
uery 361	CCGCTGCGGTCCATTT	TCAATGTACTTTGCTTACCGA	CCTCTCCCATGACAAATACTT	G 420
bjct 2932	CCGCTGCGGTCCATTT	TCAATGTACTTTGCTTACCGA	CCTCTCCCATGACAAATACTT	rĠ 2873
uery 421	AGATCATCATTACTTG	GAATGAATAATATATCGCCAT GAATGAATAATATATCGCCAT	GGTATAATAAATGATTCTGGG	480
bjct 2872	AGATCATCATTACTTG	GAATGAATAATATATCGCCAT	GGTATAATAATGATTCTGGG	1 2813
uery 481			TIGTATCTTTACCGTTATGAG	TA 540
1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -	AGAACAACGTTTCTCC	AGTENGENTENGEEGEANGEE	CCCTGCCGCATTGATAGCAT	C 600
uery 541		AGTCAGCATCAGCCGCAAGCC		2693
uery 601	ATCACAGTTAGGGGAA	TATTIGTAATGGCCTGTTTTC	CAGAGTTIGCAACTICACCAG	TT 660
bjct 2692	ATCACAGTTAGGGGAA	TATTTGTAATGGCCTGTTTTC	CAGAGTTTGCAACTTCACCAG	2633
uery 661	ACATAAACCTTTTGTG	ACCGGAATGCAGCTATGCTGA	CATCAACTTGAGGGCTTTCAA	TA 720
bjct 2632	ACATAAACCTTTTGTG	ACCGGAATGCAGCTATGCTGA	CATCAACTTGAGGGCTTTCAA	A 2573
uery 721	TATGTAGTTAATCGGC	TTGTAATATCTTGTCGTACTT	GACTTACTGTTTTTCCAGCTAG	C 780
bjct 2572	TATGTAGTTAATCGGC	TTGTAATATCTTGTCGTACTT	GACTTACTGTTTTTCCAGCTA	2513
uery 781	TGAACCTTACCTATGT	AAGGATAAAAAATAGTTCCGT	CAGAATTTACCCAGTTACCCG	A 840
bjct 2512	TGAACCTTACCTATGT	AAGGATAAAAAAATAGTTCCGT	CAGAATTTACCCAGTTACCCG	A 2453
uery 841	TCACTTGCACTACGAT	ATTGACCAGCAGGTGTCGTTA	ATTCCGGATGATCCCATACCG	00e A
bjct 2452	TCACTTGCACTACGAT	ATTGACCAGCAGGTGTCGTTA	ATTCCGGATGATCCCATACCG	A 2393
uery 901	ACCATGAGCACATCAC		AACTTTTTAATAGGTTATCCA	AC 960
bjct 2392	ACCATGAGCACATCAC	CCACACCAATGCGATACTCAT	AACTTTTTAATAGGTTATCCA	C 2333
uery 961	TGAGGATTCGAGCGTG	CTATAACCGGTTCCGGACGGA	GTTGATCTATTAGACCTGGCG	rc 1020
bjct 2332	tgaggáttcgagcgtg	CTATAÁCCGGTTCCGGÁCGGÁ	GTTGATCTATTAGACCTGGCG	tc 2273
uery 1021	ATAGGATAAACATTCA	CCAGCTTATCCAAATCGTAGT	CGCTATCCGGGAGTTCTACCA	G 1080
bjct 2272	ATAGGATAAACATTCA	CCAGCITATCCAAATCGTAGT	LOC FATCEGGGAGTTETACCA	CG 2213
uery 1081	TTTTTACGCAGACTGT	TCAATCCCTGACCAGGGATGA	TTGTACAACCTGATAAAAACCC	A 1140
uery 1141	ATTGCCAATGCTAATG			AG 1200
bjct 2152	ATTGCCAATGCTAATG			4G 2093
uery 1201	TAAATCAAAATTTGCC	AATTCCTGAGCAGCTGTCACA	6CCGTT6CTTCCCT6CC6GCT	G 1260
bjct 2092	TAAATCAAAAATTTGCC	AATTCCTGAGCAGCTGTCACA	GCCGTTGCTTCCCTGCCGGCT	G 2033
uery 1261	TGGAGAGATAAAAGCT	GACTGCGTCCTGCAGCGCTAC	CACCETETETECTETETET	AG 1320
bjct 2032	TGGAGAGATAAAAGCT	GACTGCGTCCTGCAGCGCTAC	CACCETETETETET	G 1973
uery 1321	CATTCAGCCTTATAAA	CTARACGGTATTTCTATCCCT	GCACTGGCCCCAACGTCATCGC	T 1380
bjct 1972	CATTCAGCCTTATAAA	CTAAACGGTATTTCTATCCCT	GCACTGGCCCCAACGTCATCG	1913
uery 1381	GICGCIGITGITCGCG	TTGGTGTAC 1405		
bjct 1912	GTCGCTGTTGTTCGCG	TTGGTGTAC 1888		

FIG. S1 BLAST results for comparison of *wza* in TOPO® construct and *E. coli* WT *wza* sequence. The BLAST shows a 100% identity. The reference sequence is the *E. coli* K30 capsule biosynthesis cluster, partial sequence, (accession no. AF104912.3).

Primer	Primer sequence (5' to 3')	Melting temperature (°C)	
Forward	AGA ACT CCC GGA TAG CGA CT	57.6	
Reverse	CCA ACT GAG GAT TCG AGC GT	57.2	