



Research article

Antimicrobial activity of bacteriophage derived triple fusion protein against Staphylococcus aureus

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Table with 3 columns: Line number, DNA sequence, and motif label (TF or TFnt). The DNA sequences are shown with yellow highlighting on specific nucleotides.

266	TGCGAGGGCACTCAAGCGGAGCTGGTGGTCATGTAGTCATGTTTATTGACCCT TGAGGGGTCATTCATCTGGTGGAGGTCATGTTGTTATGTTTCATCGATCCA	TF TFnt
319	GAAAATATCATTCACTGTAAGTGGGCAAATAATGGCATCACAGTGAACAATA GAGAACATCATCCATTGCAACTGGGCTAATAACGGAATCACTGTTAATAACTA	TF TFnt
372	CAATCAGACAGCGGCTGCTAGTGGCTGGATGTATTGCTACGTTTACCGTTTGA CAATCAAACAGCTGCTGCTTCAGGTTGGATGTATTGTTACGTTTATAGGCTTA	TF TFnt
425	AAAGCGGAGCTCTCGACGATGAAAAATCACAAGTATGTAGTGGTTTGGCTATG AGTCTGGAGCTTTGGATGATGAAAAATCACAAGTTTGCTCTGGTCTTGCTATG	TF TFnt
478	GAAAATATGACATTACAAATTTAAATGCTAAACAAGATAAATCAAAGAATGG GAGAAGTACGATATTACTAATTTGAACGCTAACGAGGATAAGTCTAAGAATGG	TF TFnt
531	GAGCGTGAAAGAGTTGAAACATATCTATTCAAACCATATTTAAAGGTAACAAGA TTCTGTTAAGGAACCTTAAGCATATCTATTCAAACCATATTAAGGTAATAAGA	TF TFnt
584	TTACAGCACAAAACCTAGTATTCAGGTGTGGTCATCCACAATGATTATGGT TTACAGCTCCAAAACCTTCTATCCAAGGAGTTGTTATTCAATAACGATTACGGT	TF TFnt
637	AGTATGACACCTAGTCAATACTTACCATGGTTATATGCACGTGAGAATAACGG TCAATGACTCCATCTCAATAACCTTCCCTGGTTGTATGCTAGAGAGAATAACGG	TF TFnt
690	TACACACGTTAACGGTTGGGCTAGTGTATTGCAAATAGAAACGAAGTGCTTT AACACATGTTAAAGGTTGGGCTTCTGTTTATGCTAATAGGAATGAGGTTCTTT	TF TFnt
743	GGTATCATCCGACAGACTACGTAGAGTGGCATGTGGTAATCAATGGGCAAAT GGTACCATCCAACCTGATTATGTTGAGTGGCATGTGGAAATCAATGGGCTAAC	TF TFnt
796	GCTAACTTAATCGGATTTGAAGTGTGTGAGTCGTATCCTGGTAGAATCTCGGA GCTAATTTGATCGGTTTTCGAAGTTTGCGAGTCATACCCTGGAAGAATTTCTGA	TF TFnt
849	CAAATTATTCTTAGAAAATGAAGAAGCGACATTGAAAGTAGCTGCGGATGTGA TAAGCTTTTTCTTGAAAATGAGGAGGCTACATTGAAGGTTGCTGCTGATGTTA	TF TFnt
902	TGAAGTCGTACGGATTACCAGTTAATCGCAACACTGTACGTCTGCATAACGAA TGAAATCATACGGACTTCCAGTTAACAGAAACACTGTTAGGTTGCATAATGAG	TF TFnt
955	TTCTTCGGAACCTTCTGTCCACATCGTTCGTGGGACTTGCATGTTGGCAAAGG TTTTTCGGTACATCATGTCCACATAGATCTTGGGATCTTCATGTTGGTAAAGG	TF TFnt
1008	TGAGCCTTACACAACCTACTAATATTAATAAAAATGAAAGACTACTTCATCAAAC	TF

	AGAGCCTTACACTACA ACTAATATTAATAAGATGAAAGATTACTTTATTAA GA	TFnt
1061	GCATCAAACATTATTATGACGGTGGAAAGCTAGAAGTAAGCAAAGCAGCAACT GGATTAAACATTATTACGATGGAGGAAAGCTTGAAGTTTCTAAAGCTGCTACT	TF TFnt
1114	ATCAAACAATCTGACGTTAAGCAAGAAGTTAAAAAGCAAGAAGCAAACAAAT ATTAAAGCAATCTGATGTTAAACAAGAAGTTAAGAAA CAAGAGCTAAGCAAAT	TF TFnt
1167	TGTGAAAGCAACAGATTGGAACAGAATAAAGATGGCATTCTCGACGCTGCAA TGTAAAGCTACTGATTGGAAGCAA AATAAGGATGGTATTCTTGATGCTGCTA	TF TFnt
1220	CACATGAACATTTCAGCACAAATGGTTGAATAATTACAAAAAGGATATGGTTAC CACATGAGCATTCTGCTCAATGGTTGAATAACTACAAGAAAGGTTACGGATAT	TF TFnt
1273	GGCCCTTATCCATTAGGTATAAAATGGCGGTATGCACTACGGAGTTGATTTTTT GGTCCATATCCTCTTGGAAATTAATGGTGGAAATGCATTACGGTGTGATTTCTT	TF TFnt
1326	TATGAATATTGGAACACCAGTAAAAGCTATTTCAAGCGGAAAAATAGTTGAAG TATGAACATCGGAACACCTGTTAAGGCTATTTCACTGGAAAAATTGTTGAAG	TF TFnt
1379	CTGGTTGGAGTAATTACGGAGGAGGTAATCAAATAGGTCTTATTGAAAATGAT CTGGTTGGTCAAATTATGGAGGTGGA AATCAAATTGGACTTATTGAGAATGAT	TF TFnt
1432	GGAGTGCATAGACAATGGTATATGCATCTAAGTAAATATAATGTTAAAGTAGG GGTGTTCATAGACAATGGTACATGCATTTGTCTAAGTATAACGTTAAAGTTGG	TF TFnt
1485	AGATTATGTCAAAGCTGGTCAAATAATCGGTTGGTCTGGAAGCACTGGTTATT AGATTACGTTAAGGCTGGTCAAATTATTGGATGGTCAGGTTCTACTGGATATT	TF TFnt
1538	CTACAGCACCACATTTACACTTCCAAAGAATGGTTAATTCATTTTCAAATTCA CAACAGCTCCACATCTTCATTTCCAAAGGATGGTTAACTCATTTTCTAACTCA	TF TFnt
1591	ACTGCCCAAGATCCAATGCCTTTCTTAAAGAGCGCAGGATATGGAAAAGCAGG ACTGCTCAAGATCCAATGCCATTTCTTAAAGTCTGCTGGATATGGTAAAGCTGG	TF TFnt
1644	TGGTACAGTAACTCCAACGCCGAATACAGGTTGGAAAACAACAAATATGGCA TGGAACAGTTACTCCAACACCTAATACTGGATGGAAGACAAATAAGTACGGTA	TF TFnt
1697	CACTATATAAATCAGAGTCAGCTAGCTTCACACCTAATACAGATATAATAACA CTCTTTATAAGTCTGAATCAGCTTCTTTTACTCCTAACACAGATATTATCACA	TF TFnt
1750	AGAACGACTGGTCCATTTAGAAGCATGCCGAGTCAGGAGTCTTAAAGCAGG AGAACA ACTGGACCTTTTAGATCAATGCCTCAATCTGGAGTTTGAAGGCTGG	TF TFnt

1803	TCAAACAATTCATTATGATGAAGTGATGAAACAAGACGGTCATGTTTGGGTAG	TF
	TCAAAC <u>T</u> ATCCATTACGATGAGGTTATGAAACAAGATGGTCATGTTTGGGT <u>T</u> G	TFnt
1856	GTTATACAGGTAACAGTGGCCAACGTATTTACTTGCCTGTAGAACATGGAAT	TF
	GTTAC <u>C</u> ACAGGA <u>A</u> AAT <u>T</u> CTGGTCAAAGGATATATCTTCCTGTTAGGACTTGGAA <u>C</u>	TFnt
1909	AAGTCTACTAATACTCTGGGTGTTCTGTGGGGAACATAAAGCTAGAGCATCA	TF
	AAATCTACAAATACAT <u>T</u> AGGAGTCTCTGGGGTACAATCAAAXXXXXXCATCA	TFnt
1962	<i>CCATCACCATCACTGA</i>	TF
	<i>CCATCACCATCACTGA</i>	TFnt

Figure S1. Plant-codon optimized sequence of *TF* gene. Upper line is sequence of original *TF* gene and lower line is codon-optimized sequence of *TF* gene (*TFnt*). Yellow boxes indicate modified sequences. Green box shows mutated restriction site that was present in original *TF* gene sequence and is absent in codon-optimized *TFnt* gene. Underline: start (ATG) and stop (TGA) codons. Italics: 6x His-tag



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