Amino Acid Sequence #1

MDFPQQLEACVKQANQALSRFIAPLPFQNTPVVETMQYGALLGGKRLRPFLVYATGHMFGVSTNTLDAPAAAVECIHAYSLIHDDLPAMDDDDLRRGLPTCHVKFGEANAILAGDALQTLAFSILSDANMPEVSDRDRISMISELASASGIAGMCGGQALDLDAEGKHVPLDALERIHRHKTGALIRAAVRLGALSAGDKGRRALPVLDKYAESIGLAFQVQDDILDVVGDTATLGKRQGADQQLGKSTYPALLGLEQARKKARDLIDDARQALKQLAEQSLDTSALEALADYIIQRNK

Link: <https://www.ncbi.nlm.nih.gov/nuccore/AE014073.1?feature=CDS>

Strain: 2457T (368709..369608)

Paper: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC153260/>

Amino Acid Sequence #2

MDFPQQLEACVKQANQALSRFIAPLPFQNTPVVETMQYGALLGGKRLRPFLVYATGHMFGVSTNTLDAPAAAVECIHAYSLIHDDLPAMDDDDLRRGLPTCHVKFGEANAILAGDALQTLAFSILSDANMPEVSDRDRISMISELASASGIAGMCGGQALDLDAEGKHVPLDALERIHRHKTGALVRAAVRLGALSAGDKGRRALPVLDKYAESIGLAFQVQDDILDVVGDTATLGKRQGADQQLGKSTYPALLGLEQARKKARDLIDDARQSLKQLAEQSLDTSALEALADYIIQRNK

Link: <https://www.ncbi.nlm.nih.gov/nuccore/AAVAPZ010000018.1/>

Strain: E7800 (5890..6789)

PCR sFispA-F/sFispA-R on S. flexneri gDNA (956bp, pcrpdt)

PCR o1/o2 on pLYC73S (14896 bp, back)

assemble pcrpdt, back (BsaI, pLYC73S-sFispA)

transform pLYC73S-sFispA (Mach1, Amp)

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> sFispA-F Cloning of sFispA

ccataGGTCTCaTAACcccttttacaccggacaatgag

> sFispA-R Cloning of sFispA

tatggGGTCTCaTTGTttatttattacgctggatgatgtagt

> o1 Forward BsaI for pLYC73S template

ccataGGTCTCaACAATAAGTATTAATAGGCCCCTGATGAGTTTTGATGACGGCA

> o2 Reverse BsaI for pLYC73S template

ccataGGTCTCaGTTAGAGAGGGCTGCTTGAACCCA

> sFispA rbs.CDS of Shigella flexneri ispA

cccttttacaccggacaatgagtaatggactttccgcagcaactcgaagcctgcgttaagcaggccaaccaggcgctgagccgttttatcgccccactgccctttcagaacactcccgtggtcgaaaccatgcagtatggcgcattattaggtggtaagcgcctgcgacctttcctggtttatgccaccggtcatatgtttggcgttagcacaaacacgctggacgcacccgctgctgccgtagagtgtatccacgcttactcattaattcatgatgatttaccggcgatggatgatgacgatctgcgtcgcggtttgccgacctgccatgtgaagtttggcgaagcaaacgcgattctcgctggcgacgctttacaaacgctggcgttctcgattctaagcgatgccaatatgccggaagtgtcggatcgcgacagaatttcgatgatttctgaactggcgagcgccagcggtattgccggaatgtgcggtggtcaggcattagatttagacgcggaaggcaaacacgtacctctggacgcgcttgagcgtattcatcgtcataaaaccggcgcattgattcgcgccgccgttcgccttggtgcattaagcgccggagataaagggcgtcgtgctctgccagtactcgacaagtacgcagagagcatcggccttgccttccaggttcaggatgacatcctggatgtggtaggagatactgcaacgttgggaaaacgccagggtgccgaccagcaacttggtaaaagtacctaccctgcacttctgggtcttgagcaagcccggaagaaagcccgggatctgatcgacgatgcccgtcaggcgctgaaacaactggctgaacagtcactcgatacctcggcactggaagcgctagcggactacatcatccagcgtaataaataa