



ATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAATAA
 TAGAGCTAGGGCGCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATT

T7 promoter → lac operator

NdeI

TTTTGTTAACTTTAAGAAGGAGATATACATATGCATACCCCAGAACACATCACCGCCGTGGTACAGCGCTTTGT
 AAAACAAATTGAAATTCTTCCTCTATATGTATACGTATGGGGTCTTGTGTAGTGGCGGCACCATGTGCGGAAACA

1	5	10	15
Met	His	Thr	Pro
Glu	His	Ile	Thr
Ala	Val	Val	Gln
Arg	Phe	Val	

KSI

GGCTGCGCTCAATGCCGGCGATCTGGACGGCATCGTCGCGCTGTTTGCCGATGACGCCACGGTGGAAAGACCCCGT
 CCGACGCGAGTTACGGCCGCTAGACCTGCCGTAGCAGCGCGACAAACGGCTACTGCGGTGCCACCTTCTGGGGCA

20	25	30	35	40
Ala	Ala	Leu	Asn	Ala
Gly	Asp	Leu	Asp	Gly
Ile	Val	Ala	Leu	Phe
Ala	Asp	Asp	Ala	Thr
Val	Glu	Asp	Pro	Val

KSI

GGGTTCCGAGCCCAGGTCCGGTACGGCTGCGATTTCGTGAGTTTTACGCCAACTCGCTCAAACCTGCCTTTGGCGGT
 CCCAAGGCTCGGGTCCAGGCCATGCCGACGCTAAGCACTCAAATGCGGTTGAGCGAGTTTGACGGAAACCGCCA

45	50	55	60	65
Gly	Ser	Glu	Pro	Arg
Ser	Gly	Thr	Ala	Ala
Ile	Arg	Glu	Phe	Tyr
Ala	Asn	Ser	Leu	Lys
Leu	Pro	Leu	Ala	Val

KSI

GGAGCTGACGCAGGAGGTACGCGCGTCCGCAACGAAGCGGCCTTCGCTTTACCGTCAGCTTCGAGTATCAGGG
 CCTCGACTGCGTCCTCCATGCGCGCCAGCGGTTGCTTCGCCGGAAGCGAAAGTGGCAGTCGAAGCTCATAGTCCC

70	75	80	85	90
Glu	Leu	Thr	Gln	Glu
Val	Arg	Ala	Val	Ala
Ala	Asn	Glu	Ala	Ala
Phe	Ala	Phe	Thr	Val
Ser	Phe	Glu	Tyr	Gln
Gly				

KSI

5250
5325
5400
5475
5550

