

>vB_Slq_MQ-4

ggggcattgactccgcgaaaaacgcgttgtagtggcgtttataaaatcggtttataattacattgaggcataacaattggctaaatctatcaaggggcagtcagtcgaaccgcactgcc
cttgccaacattttggcggtgccttgacctgacgttgatcaggaacggcctgccgtgcgtcacgcgcggtgggcgcggtaagcaatgggagtttgacaccgccgccgtt
gtgactgggtgcgtgaccgtgccgtcaccgacgccaccggcgaaacgcaggctgatgaagccgaaatgtcccggcggtattaagcgcgccaacatggagctgtcagagcttgag
ctagccaaggccaaggcgctggtggcccctgttgaccagattgagcggatgcttggcgcgtgttcgctgaggttcgcgcgggaatgcgcaacctgccttcccgccaccgtgtcgat
gcttatcggtgaaaccgatgaacgccgcttcaagcaggtgcttggcagcgaaattgatcaggtgttggaagcgcttgcaagcgctgatttgctggacggatacgacgagggcgaaa
gcgacgatgacagcgaagaatgaacagcagttcagcaacctgaaggcgtagccggggcaatcaagcgggcgcagcgctcagctattgccgccgccggaatgaagccatcaca
gtgggctgaggaacatatcaagataccggcgggcaacgccgtgccgggcaagctacggctggataacgcgccgtaccagcgcgaaccaatggacatgcttgtaaccggattg
ctaccgcgttacgctgatgtggggcgcgcaggtgggcaagacgatgctggcgctgtgcgttcaggcgctactgcatcgcgatggcaccccgagtcfaatgatgatgcagccaagc
caagacgacttgcgcacctggcttgaaaccaaattcaacccgctggccgacgagtgcgaaaccggtcaaccaagccgttgccaagccgcgtggccgggatggcgtaacaacca
gaaaatgaagtcataccccggcgggttcctgatgttcgcttggtctggttcaccaagacgatgcgcggggcggtctgcgccgctgatcgctgtgacgaggtggacggctacgaac
gcaccgccgagggccatccggttggcctgctgtggcagcggtccgccacgttcggtgatcagcggttcctactggaaatcagcaccgccacatcaagggcgaaagctacattgaa
aatcggtcgacatgggcgacgggcggcatttcttgtgtctgcccgcactgtgatgaccacgtaacccttgattgggataacgtgcattgggaaggcaaggagaaacccatgag

gaaacgttagccgccatcagcgagcaaaagccggacacggcgcaacttgattgcccggcctgcggcagccagtggaacgaaggcgagcgcatagccgccatcaggaacgccg
aagccttgggcgctggctggaaggccaccagaccgtttgacggtcacgcaagctaccacctgaacgagctttacagcacgttcgcgcaaagtgccggccatcgccgtgactacctc
gacaagctgaaaaccgacgatttgcagacgttcaccaacgttagcttggcgacagcgtgggaagaggaaggcgacaagggtgatccagatagcctgatggcacgccgggaaga
atacccatgcgccgtgccgatgggcggcctgtatcttaccgctgggatcgacatgcagattgaccgcctcgaatgcgaaattgtggcgtggggcggtggggaagaaagtgtgtctgt
tggctattgggtgctgtggggcgacccgatgacgccagatccgtgggacgcccttgatgacctgttagccgaaacattccagcatgaaagcggggcaatcctgccggttagcgctg
cgtgcctcgataccggcgccaccagcggctacacgcaagccgcctatgactacgccaaggggcgcacaggccgtaagctgttcgccatcaaggcggtgccgggctggggccg
tccaatcgttgagaagccgcagcgcaagcagctctgggaagaacgcgcgcaaggtggatctgttcttgggtgggggtggatgaggccaagcttgcacgtcacgccgcctgaacaag
aaaacgccggggccgggttactgccacttccctgatgatcgtgatgaagaatggtcaagcagatgacggcggaagctgaccgtgcgttatgtgaagggccagccaatccgcg
agtggaaaaagccagacaaggcgcgcaacgaagcgaccgactgccgaaactacgcgttcgcagcgctgaaaatcatgcagccatcgttaaacgccttgccgcacgcattggcg
tggatgttgaccggatctgaccgcgaaacgcccgcagttgccgcgcacaaagattgtgccgagcaacgacaacaagccaccagcaccagcgccagtgcaagacaaacccaaa
gaagaacagaagccgggttaatcggaatgcacgcatcaagaaatccgcatcagtacgccgcaaagcgggcagaaaggcggttcattgggttaatagctggtgatgaatagt
actgtagccttttaccggcagcgctcagcgctggccttacattgaatcaggtgatcacctgcccggctaccgggcaacagagtgggtcacttatggtttctgcgcggcccgaatc
catcaacgtgccagccactgccgatggcgaccagttcaagatttacgctagcgccgggggttacggaaacgtggccgccgggtaattactggtacagcctgcgcgttcgcgcggc

gatgacgtgattgacgcatcacgcgggcaactgaccataacgccggatatggctgacattgctgacggctatgacgggcgccaccgaaaacgaaattgcgcttgccgcgattgagg
ccgtgatagccaagcgcgcaacaatggatcaggaacgctaccgcatcaacaaccgcgagctttaccgcacgtcaattgctgacctgctgaaactccgcagccattacattgcgctg
gtcaatcttgagcgcggaaggcttgcggaataatccccctggggcaaaagtatccgggtgagccttaataatgaacctgaaatgttgaaaagagccgcaccggtggccgaacag
gcgaacaagcgggaacctatgcgcagccgactggctgcccgaatgtttgccgccgcccagcggtgaccgccttcaaccggctgggggtactaaccactgaccgccgaccagatta
ttgaaaagatcagcgcatcgttggtgcccgttcccgcgaacaggccgccaacaatgattacgcgaaatcgatatctgcgcatgtgccgcaaaatatcgttgggcaaaaggcgtga
tgttgaggccaagagtgttggaacgatggaaaacttgacaagccagccaatgacgccatcgaaaccgcgtgggaaaaatggggcaaccgcaagaatgcggatgtaaccggtga
agctgtcttggcgagcaattcaggcgctcatgcgtgaacaccgccgccaaggacgggtgaatttatgctgcgcctgatttatggcgctgaggcggggccgtggggcttctcgttgagg
tgtagacccgcagcgctgcccgtcatcatgaaagaagatcggttgccgtctggcggggtcatccgccaaggcatcgagttcaaccgctatggccgcgccatcgcgattatttcga
ttcgacagacgaaaccgaggaaacttatcgggtggggcgggaataattacgttcgcgtgcctgctgaacagatcgtgcatggttccttgaggacatggtaggccagaaacgcggcc
tgccgtggatggcaaccagcctgatccgtatgcggcacatggccggtatggaacaagctgcggtcatcaacgcccgccgggtgccaacaagcttgattcattgaacgtgagca
cgacgccgacgaacttgacattgatgacgaggaagaaattatcatcaacagcgaaccggcggaattcaacattttgccgaggggtgccaagggtgccaagttcgatcatcagtatcc
taacggcgaatatgccattttcatcaagtcaatgttgcgcgggatggcatcaggtggcgggcgttgcttacaacacccttgccaacgatctggaaggcgtcaactttccagcatccgcc
aagggtgcgttagacgagcgcgagcactggaaagagctgcaagaatgggtgattgaatgcctttgtcagccggtgtttgaggcggtggctaccgcgcgccctgttgagccgtaaaatta

ccgtcaatggccgcagcctgcgccctgaacgcatcgaccgttacagcgtcgttgaatggcagggccgccgtggcagtggttgacccaagcgcagacgttaaggcggccgttg
ccagcaaaaacaatatgctcgcacccgccggtcaaattatccgcgagctctggccgcgacctgattccgtatggattgaagcggcgcgcgacgttcgcgcgatggtcaacgcctac
gttgccgaaggctttgacgagaaggcagccaccgaactggtgatgttaagcatggggcgcgagcctcaattacaacaatcgagcgggcaagcagatgatcaaaaccagcgc
taattatttcattggcgaacgcttcacgcgtgacgcctcacaggccaaagcactgccagacttacaagcatggcgttggtgcgagtgatggaggttcgagcttcaacgaaactga
ccgtaccgttgagctggcattttcatccgaaattgaggtgaacgctggtttgggggtgaaatcctcgaccaccagccgggaagcatccgccttgaccgtctgcgcgatggcggcgct
gttctggtaaaccacgattgggatgatcaggttggcgttggtatccgtaaccattggcaatgaccgccggggcgggctgttggtgcgttttgcaaaagcgcgcgagccaatgaa
attttcaggacatcattgacggcatccgcaagcatgttccgttggtaccgcatcatcagcgccaagctggttgaaacacgcgcgacgatgtagacgtgtccgcatcatcgattggga
accttacgaaatttctattgtgagtggtccagcagaccaaccgttgggggtggccgttccgctgacaaacccaaagaagaacgcgcgagcacagaacaatgatactgccaccacca
atgaaccaccggcagatattccaccaatttattgagagcaaacattatgactgaaaaaacgctgcgcgatgccaaaggcaatctggtgcgcgctatggttgatgaacaaggcaacat
cacgcaggttatcgaagttctggaaaaggccggtgatgacgttcgttcagcacagcggcagggcactggaagccgaacgccagcgcaccagcacaatgattgagctgggcgacaa
gtacggcgcacaggatttggcccgccagttcattcaggacggcaaaagcgttgacgagctgacccgagcactgctggatcacgtcaacggtgaaggcaaggacaagccagccg
gtcaaaccgcgagcaccactaccagtgcacctaagccgatttccgaaatgccaaagcgaacctcggcatggatgacaaggaagtgcgccggtattcgattttcaaagcgggtgcgt
gcgttgacgccgaacgccagcaaggctgaccgcgagggccgccgctttgaaatcgagtgcagcgaggccgcacagcgcgcccttggaagaccgcacagggcatcctgatcc

cggaagatgtgtagcgcgctgccttcaacgctggcggcgcccctaacaccccgccggcgccacagaccggcagcaatctggcggcaaccgactttatggccggttcgttcacgaa
atgctgcgcaaccgcaccaccatcatgcgcttggcgcggttctatggcggtctggttgtaacgtcgaagtccgaaacagaccaatggcgcgagggcgtattgggtaggtgaagg
cgatgacgcgacggaaggcaccgagatcgggcaattgggcctgtctccaaaaactgtggctgcctacaccgacatcacccgctgtgctgatgcagtccacccggacgt
gaaagcatcgtgcgtggcgatctggtggctgccatcgcgagggcattgacctggcggttactacggcaccggcaccgacaaccagccacgcggtctggcgaactacaccggc
atcaacgcggttaactttgctggcactcagccgacctatgccgagctggtgcagatggaaaccgaaattgccgccgacaacgctgacgtcaacaacatggcatacgtgctgaacgc
catcgggcgcgggcgggcgaaaaccacgccgaagttgccgcaggcgcttccgtgtcggacgcaggcggtattttgggagccgggcaacaccgtgaacggctaccgcaccgaa
gtgaccaaccagatgccaccggtgatgtgttctttgtaactttgctgacctgattgttggcctgtggggcggtctggatctgaccgtgacctgacagcctcagcaagtctggcgg
cctgcgcacatcgtggtgtccaagatgttgatttcgccgtgcgccgcgttgaatcgttctgcttgggccgcaagggtccataagaacaatagttgttgaccaataaggccgctgcggcgg
ccttatctttatagggtaatagttatgtcaaaaagcattgtgttgaaactgacgtcagcgattgtggttgacggcgaagcatgccgaaagacagccttgttgagctgtccgaagctgag
gcaaaaacctgctgcatcgcggaaggccgtgttgacgatgttcagcctgccagtgatgaagataccgacatcaccaagatgaacaaggatcaactgattgacatgccaatca
gatggaaattgacggcgctgacaagatgaccaaggcgagttgattgaagctatcacccgagccggggaggcagaataatgcaacacggcacatcagtaaccgttctggccgtac
cggccaccatcacccgagcggcaacgggtgtgcggtcaacgtgggtgactatcacggcctgtgcctgatccacctcaacgcgattggcacggcaggcaccaccaccgtgagcc
ttgagcacagcgacaacggaactaccggtgggctgccgtggcaaacacacggttgcgccggttggcacatcggcatcagagcaaaccctgatgttcaacgctgaccgcttcaag

aagtttgtgcgcgtcaaggatgttccgctggcagtggttctgccatccggggcgtgacgctggttggcaataagcagattcctgattatgccagcgccagcttgggaaaatcttgac
gatttccttgatctggatactagcggcggttgcattccccgccgttatttcctcaaggatggcacgtctaaacaggtatcggtcattttgatgaccctactttgatgcgagattggc
gaatatgccgctgataccagttcaccgctatcactggcaaggaaagcgacctaacgcgcgttcgtcgtggggataccatcacgattgccggtgaaacattcattgccactgcgagc
gttgagcctgacggcactggcactgcggtggttcacatgacgcgccaagatgatcaattatgacatcgaatggatacagcttcttgacgtagccaaggagctgcaagccagcaccc
cgcagtttaaggccgccgttagccgggcctgcaatcgtactgccgccaccctgcgcaaaatgtcatccaaaggtttgaaggatgaactacaactgcgcacggtggccgccatccgc
aagcgtttaaaaaccatcaaattgcgtgccaacgttcagggaatgcaactttggtatggccttaatgacctgcctgtcagtagcttcaaagggcgaccaaagcagaccagcgacggc
gcgcagttcagaaacacaaaatttgcgggcgggttcgttgccaaaagcggcgtaaaaggaagcagaccgtgtttaaacgccgttgaaaacagcgcttaccaatcgttgaacagtt
gctgcctatcaaagatcaggccgatatttcatcgaggatgaaatatttgtgcaggtagagcagatttctggcagcacttccgccgcgacctaccgcgcgggttaaataatgacctcaa
aacatctgaccggtgggcctgattatgaacgccaataccgttggtgacttatccgtttacatgacgccatcgttgccgacattaaggcgcagttccctgaccttgtaaccgtcgaattcta
ccgggccgaggaaggccaaggcgaagatgcccgcaaaaccctgccggttctgcctgcctgcttgagctgtcagaaatggcggcagatccagaccgcgaccccgccacagag
caattggccgttaccgctacgtttgaggcgcatctaattgactcactgaaaacgcggaatgccaaagctgtctgtgcgcgtactggctgccgcgttcagtgcgtggttgcgcttgcg
ccgctggaataacccggctgtgccgggcaagtgcctgccgaccggggccagcctacgtgatgggcgcttaccctgatgactttccccggagcttgaccgttatgagggttggcgcgt
ggagtggcagcaggaattcatcttggtgacaccatttgaaggatgaaggcgtaaccctgacaagccgctttacagttgggtgcctgaaatcggcaccggccatgagggcgatt

attccgaggtgatgccatgagctatgacctcagcgaaataaatcgattctggcgaacatgatacgattggccgggtgatcgagctggacgaggccaacgcccgcgtcaagctgg
ccgtgggcggccttacaaccgattggctgccgtgggggtgctgaccgggcagggaaaaacacgcaaattgtcaccgccgcagattggcgagcaaattcatgatgttttcgccatacgg
tgacagcgcgcagggcggtgccggtatgtcaatctttcaggatgactttgccgcaccggcgcagagcaaggatcaggaaaccaccgtttaccggacggcagcacctggactac
aacagcgccaccaacacgctgacagtgacagtgaccggcagcgcgaaagggttggttaactgcaaagaggccaccataaatgcggccaccagcgtgacgctagacacccctga
cacgttttgcaaaggcaagctgaccgttgacggctctgctgacgtacaaggcgccatggccgggttctggcggttctggcgcaacggcgaaaatcaccggcaacgttgagattaccg
gcggcgatgtgaaagctgacgacatcagcttgaaaggccacggccacactgaacagggtgacggaaaccgcaccagcaacgcagtggcctgacaaacccaaagaagcaaaac
cctgttcatgcgggcaatctaaccgcgatgaacggaataaacgcattctacaggaaaggcgctaagcgccatcgagcacttgcgccaatccattactgacatactcacgacgccgatt
ggcacgcgagtgatgcgccgtgactacggcagccgcttgccgcgccttggtgatgcgccgatgaaccgcgcaaccctgcttgatatttactcagcgacagcagaagcgctgttgca
gtgggaaccgcgctttaggctgcaaaccgtcacggcgaccgccgcacagcccggcaaaattgaactgtcacttaccggcgaatacctgccggatggcgaaacaatcacattagat
ggcatagtggtgacctaaatggccggtgctttaccgtagtaaacctgtcacaattgccagcgcctaaagttgtcgaaacgctgagtttcgaaacgatcttagcggaattctggctgat
ttttatgaacgaatgaataaaaccggtcagccgttcacggcgctgcttgaatccgatccagcctataagctggccgaatgcgccgcgtatcgtgaattactggtgcgtcagcgcgtca
acgaatccgccaaggctgtcatgctggcatacggcaccggcgctgacctcgatcagcttgggtgcaaacgttgggtgtggcacgccttggttatcacgccgcctgatgaaaccaccgtac
cgccaacgcctgcgggtgatggaatctgacgacgatttcaggcgcgcatccagttgtcaccggaagcctacacaacagcaggttcagagggaagctatacgttccatgcgcttggc

gctgacgctgacattaaagacgttcagccggtcagcccgtcaccggcggtggtcactgtctatgtgctttcgcgaccggtaacggcaccgcgacacaaccattgtagacaccgtg
gccggaagctgaatgcaaagaccgtgcgccctatgaccgatcaggtggcggtgctgtctgctgccatcgtaactatgaaatcactgcggagctggtgatctatcccggccctga
ctcaaacgttgctgcaaaccgccaaggatgcaatcaagacgtatgcggaagctatgcaccgcatcggtatgacgtgacgctatccggcatctatgcggcactgcatcagccccg
gcgttcaggcagtaaacctgattcaccaaccgcaacgctgatcattgcggatgggcaagccagttatgcaacggccattaatgtgaccgtggcggtacacctcagatgtttgacctgtt
gccgccgaacgcgacgcccggcgagcgcgcgctatcagaagcaatgggcagggttggtgacgttcctgtcatcgtaagcaggtatggaacccggacacctgcccggcagacg
ttctgccgtggctggcggtgggcattcagcgttgatacttggtcaccggcatggactgaacaacaaaaacgaaactcaatcaaaaccgcagtcgcatcacagcgcacatcaaaggacg
cttggcgcggttgaaagccagcttgaagcgttggcataaatattgtggttcaagagtgggtccagcaagaaccgaagggcgacccctacacgttcaagctgatcatcagcacgtcg
caagaacctgtgacgctggaaatcatgagaaatattatcgacatcgtgaacacaaataaaaaactgcgttcgcacttgcggaacttccgtaacagcatcatcaaatcggaagtattt
accgccgcaatttcgggcatcggaatgaaatcaacgtcacaaattacgttggcatcgacactgcaatgaatgatttcaacgctgtaaacaatgtttattcataggtgaatgaattgaa
aagaaaacttactttgcgcaagatcgtgaaggcaacctaatcccaaacgcgaccgtgcatattatttagccggaaccgatacgttggcaacaaacattgttcagttaacggagAAC
cactccgcaacccgttcaccacagatgctgacggtgccgccattttcagtatgccaaactggtgaatatgacatccgcttttccaaggggacgttgggttggtcagcgcacatccggttcag
tgcttagatgttcgcgaaaccgttgacgaggcagccaaacattctgctgatgccaaagagtcagccgaccgagcggatgacgcggcaataaacgcgcagagcatagccgacgcc
gacacgtactacatcacaccagaagatccagacggaacgattgccgggctggccggtacggctgagggtaaatacattccgagtggcgcagggcatgggtgatgaactgtcattat

ctattaccgaaaaacaaacgggtgaggcggttgcaattgctgacgccgcaagcgcgagttccgtaaaaaacattgccgatttaataaaaaaatccgtaggtgcacaaacattcatgaga
tggcgcgaccgtcttgggattgttggcatttgcataattggtctgctgattctgatggcggcgtaaatttcgtagcaagttagttaaatttagcagaaaaagggtttttctcagagaacacagagctgt
cagataacgttttaaaaaacaaagatttttcagtgattaaaagtacagcggatcttttaattaaaagataaattcggcatgggtctgctgaaaataaaaagcagggtattctgtatcttccag
caattaacgctgtattcaatgctgccaccaaactgacctacggcaagaataaaaataagtcttggcggcgccggtgatattcttaccataaaagacagccgcggcggtgttggttgcgc
attgatagtagctgcgtagtccacgccaattagctgacaataacgtcacaccgcctgttcaagttacatcagaagattctattatctcaatgggttcagtcttatgctgaggcggccaagg
cgaatgtaggcagacgcattttcaataacgtgcctgcgcttggttaacccaaacaaagccaagaaaaagggttcattctggattgtctatggtcaatcgttctcagttggtgcgcaaagcg
gcgtagccttataccttacccaatccttgggtaacgtgatgcttggtgactccccgcgcggtatgaaatactcaactaacgcgacctatgaatatgcgccattgggcggcggttaacgtgt
tcaagccgctgggtgaggtgatgcaggataatgccgggaatatcgtagccaacacttctggcggctatggcgaaactatcgcgtcatcctttgctaataactgaaggcgtatcataac
caaagcatgggcatcgcaaatgatgatgactttatcattggcgtagcttgttggtgtgtctggccgcaccattgagcagctaaaaaaaggcgctagccctgaaatctataacagggt
tgaaacctgtttagacgggtattgctgaggctgccgattccgctgggtatgattgggagatcggcggcataatctacattcagggtgagaatgataacggccagccgttctcgttttacta
cccacgcttacaatcaatgatggacaccctgatcgcattcttgcattgacaaaaagcggccagagcaaaaagccactgttcatgctgaatcagcttggttaatacctacgttcgtgcaatg
ggtgttccatctgcgcaaatagaattagcgtgaaaaatgataacgtcgtgcttgttggtatcgatcaagggtatcgaatccgggcgcacacctatcagctaactcttaccgtcagcta
ggcgcggcggttcgctaaagatgcgttcaagcatatatctggttacggttcgtaccggttaaatgtgagaaggcggtattccacggcgactcgatttatttgggcatgactccgcatgta

acgccgttgaagttcaacaagggtttcaacggatggaactatgtagaacatgctgacaagggtatttcagtttcagattcttccggggccattgcttctactgatctaagtgtagccgtggt
ttcaccgacagtaatcaagggtcagtgacgacaggacgttgacagggactgttactgtcaccattggcgatgcgtcacataacggaacgcataaacatcagtgacagcagcaccgagg
ttgcttatgataagtggacgtatggcgtgccaaatcaatacccacaagaaaacgttgccggagttggttggtaaaaattactcgctaactacgttttcagcaattcaatctattgagtgtgaa
gaaatttaaataatggctattgatctggttatgggcgacacagtttttctacgggagtcagcattgacttgccggtaaaaaacgggctggtttcattggcctcgggtggtgatatgctcggc
atcaacttggttgaagggtggcgtagcaccaacgggtggttaggcacgccgctgcgtatggatgccaaatccaccaagcttgggagtttcggttatctggatttgaatatcaaagagactg
aaaactttacctacatctgcgtaaataaaatttgggttccgaccggcctaagccaatgccagcttatcggtacgtttcaatcaacatctgacaccggcgtaactgttgctggttccggctt
gataatggaacctaacgggttatcgcacggcggtggcatcgtttatgatggcacgcctaccgggtccaccgttatcacagataacatttcggcaaccaaccccccgcccggtctgcct
gcaactgaggaaacagcaacatggcgttttctctcaactatttatgacggacttagtggttcggcactggtacagatgccgataagcggcggtacatcattgataaaacggctggcg
tcaactgaacaggcgcaatgcgaatttggcattggttcgtgatttgcgtggcaaggatacgcgtaggcatgatgggtagccgtttgactcaaaacagcaccacgatcatggg
cgcatacgctgtatataaccgcgcgctgactgccgcagagttcgatctgatgtataagcgaatgcaagaaattgccgctgccaatggctggaacgcgatttaataagttatgaaacat
gcagggggtaaccctgcatttataaatattttcaatcggacaatttcagaatggcatataaaactattcataccaattacgggtctgatgcggctggcgcaagctgaggcaaccggcgt
gccaatcagttctgacgcacatggcgggttggtgatggcgctggcaacgaggtgacgcctaaccggcgcaatccacgttagtgcgagaacgttaccgccacacatcaaccgcgtt
acgcaagaccctgccgaccgcgtgcgcttactgctgagttggtgatacctgcgagcgtcggcggttcacgttgcgtgaggtgggattttgacgacgatggttcattgttcgtggtt

gggaacctgcccgccacttacaagcccgtaacgacgagggcgcttttgctgacacgggtggtgcgcgttgatttcttggtatccaacgcaagcaccatcagctttgagttcgacccaa
acattgtgatcgttactcaacagtggatcaccaacaacgtcactgcgggtaagatgtttccgggcggaaccaccgggcaggtgctaacgaagaattcaaactgacggtgacgcg
caatggaaagacccaactgacgcgctggtgtcgttgataccattgccgagctgcaaacgctggcggctggtcaaaccgtttagacctgaccgaaacgataacctacgggcttgc
ggtttacgtcgaaggcattcggttgccgcgcatggctggcgcgtgatggctgggagcctgacccggcaatcaacacccgtttcacgctgggcagatcgtacccggcaggaacccgg
ttgcaggccatcaacaacgaacccgcaggttcagcgccagcaccgctggaacgcagcaaaaacctgtcagacgtgcagaacgtggctaccgcccgcaccaaccttggcgtcatg
agcgtgccgaagtcaacgcgctgggcgcgcagcttgcgccatctggtctggtagcgccattcgccagaggaaccgcgccaacaggctggctgaaagccaacggcgcggcgga
tcagcagaactgcctatgcggccttattcgagccatcggcaccacatacggcgcagggcagcggttcacaacgttcaacatccccgatctgcgcggcgaattcattcgcggtgctg
acgatgggcgcggtgttgatgccgggcgcgcttccggcagcactcagacgcacgcattagccagccacacacatggcgcgtcagcaagcaacgttggcaaccacagccacggt
ggcgcgaaccggtggcgttggatgaccagcacattacaccatacggcgagaacaccaacgaaaccggcgggttcgatacgggacttatggaaacaacaactgcttgggtcgc
attcgtcggttgggataactcttggccgtacaccagcgcggcaggtgcgcacaaccacggcattgccgctgatggcgcgcacagccacacgatcaccgttgacgtacgggcat
tcacgaaacccgaccgcgcaacgtggccttctgtactgcattaaaatctaaggcgaactatgaaaacaaaaactgtctatcagtatgaccttgccgggctgtacgtggagccaacg
gaagcggatgaatcgccgcttgaaccgggcgtgttcctgatccccgctcgctgcgttgaggcaaagccgcgggtggttgccggtgaccagtggccgcgctggaatggggccgcg
tggcagatcatcacgtgaaacgcccggaggctgccgaggtggccgacccggatatccaagctgcgtgaattcctgaattcaaactctgatgttgagccctgctgcaatcaaccgat

gggggcgctaattgatgagccgagtttaacgttatgggcaggaatgaccggcacagttctgccgttcgcgggggctgcggcccctgctgattggttgctgtgcgccgggcaggcg
gtaagccgcaccacttacgccacgctgtttgcggtgattggcaccacctacggtgccggtgacggttcacaaccttcaacctgcccgatctgcgcgggcgtgttgctggtggcaag
gatgacatgggcggcacggctgctggccgactgaccgccgcaggcgagggctggcaggcaccacgctgggcgctaccggcggcacgcaggtgcattcactgacaacggcg
cagatgccagcgcataaccacgccgtcactgaccccgccacgcccacggcattaccgaccctacgcacgcgcatggagtgtatgaccccgccacacgcaccaatactaccg
ggtaaccaccggcaacgggcagggttctgacgtaggcacggccaacaaccacatcctgaccaacacggcggcagcggcgaccggcatcagcatctatgcttctggaaccggca
tcagcgtaacggcgctggaaccggcatcagcacgcagaacaacgggtcaggcggtgcgcacaacaacaccaaccaaccattgtgctgaaccacattattaaaatctaagtcca
cgtttgccgcctttcggggcggtttttatggacaaaccaaagaagagaacacgcgccattcctgcgaacatcgcacatgatttctacctgtgtgcacagtccgaggaaaatactaa
atggctggtgagactttttacatggcggtgaagtgctggatattgacagcgggtcacgccaattcaaaccgtgcgatccagcggtatcggcacgtagggcacggccccgaacgctg
acgcaacggcggtttccaatcaatacccctaccctgattgcaggcagccgtctggaagcgtccaagcttgatatgcttggcactggcgagggcaccctgccgaaagcgcttgatgcta
ttcttgaccaagctggcgcggttgatgctggtgcgcgttgaggaaggcgaaaccgaagctgaaacgctggctaacgtgctgggtggcgtaatgccaacaacggcaagtatga
aggcgtaacgcgttacttggcgctgaatccgcgcttggttcgcgccgcgcattctgcttgcgccgggcttcaccacacccgcgtaaccggcggcgtgaccgcgatcaccctca
gcgcaggcggcaccggctacaccgcagcgccagcggtgaagcatcaccggcggtggcggcaccggggcaactgccacggccaccgttctggcggcgtagtcaccggcgtaa
ccatcaccaatcacggcagcggttacacctcagcgccgaccgtggcggttactggtggcgggcggtactggcgcggcagcaaccgcagcatttggcagcactgccaacgccgtgg

tttcggaaatgatcggcatttccgaacgtatccggg'gcacatcatcgagacggcccaagcacgaacgacgccgcagccatcgctaccgtggcgatttcggcagccgccgctg
gtacgtcatcgacccgcgttctacggtcaccgatagcaccggcacaactgttgttcgtggatcatcgccgcgcgttgctggcctgattgccaaagtgacaatgaccttggttctggtg
gtcaccgtccaaccagaccatcaacggcatcaccggcaccgaacgcccgattgatttcgtgcttggtgacgctaacgcccgcgcaaacctgctgaacgaaaacgaggttgcgacc
atcatccggcaggacgggtaccgcctgtgggggaaccgcacctgtccagcgatcagaaatgggcgttcctgtgtgtgagccgaacggctgacatcatcaatgacagcttgctgcgt
gcgcacctgtgggccgttgaccgtggcatcacaaaaattacgtcactgacgtaatcgaaagtgtcaatgcttacctgcgtcacctgaccagcattggtgcgattttgggcgggtcgtg
ctgggcagatcctgacctaaatacacctgaccaaatecgcgcaaggtaaggtatactttgactttgactttacaccgacctaccggctgaacatattacgttccgcagccatctggtcaa
tgattacatcagcgaggtatttcgcataatggccgctcgcgacgttcgcaagaacctaaacctgtttgttgatggccgggggtacgccgggtcaaattatcgatttcaacgcaccgaaact
gacgctgcaaaccgaagagtttcgcggcggcggcatggatgcaccacttgcctgacaatgggcatggaagccatgaacactgactttgactgctggcgatgacgcagacgtg
ctggcgctgttcgggggtgccgagggcagttctgtgccgttcgttgcccgcgaggggctggaatcctatgacgggtactgtcacgccgggtggttcacaccatgcgcggcaagatcac
cgccattgaccccggcaccagcaagcccggtgaagtgcctgaactgcgggtcacctgaacctgtcttactacaagatgcagcacggaagccgcgtggttcacgaaatcgacgttg
aaaactacgtgcgcatcatcaacggcggttgatgcgctgtcagcgatggcaagcgcgctggctatttcgctaacaccttggccgggggttcccggccatctttcataaccaaactcatttg
aggcactaagatggaaaacaaagaaaacgaaatcccggcatggttgaacgtcaacgaggccgaagggtacgcagacatcacgctgagccgtggcggtgaaatccttggttcaa
ggtaaccgtcatccgtatgcgcgaaccgaccttgcggtatcaggaagtatcaagcgtgatgaaaggcagcgacgcgcagcgcgaaattcagacgttcgccacctgtgcgatctg

gcacctgatgacattcgcaaactgccgctgcgcgattacacgcgcctgcaaaaagcggttgtaaattttatcaactaacgcccgactacattcgcgggggcgctcttggcacttgcag
ccacaccggctggcaactgtcagaaatacagcggttgcgggtgagccgctttatctggtggattgaagggctgccccaaacagaatggctaacaaaaaacttaacgcaacgattacc
atcggtggggctatcgcaagtagccttaccggtgcattcggtacagtcaaaaaaggcggtgaccagatcggcagcgctatccagaaccttgaacgccgtcagcgcacccttgcaaa
ctctattcaaacgtttggccgtatgggcaaagacgttgacggtttgcgcgcgaagtatgacgccgtttctaaagccatcgacaaggccaaggctgcgcaagaccgtttaacagagc
gacggcagcgcgacaagcgaaaccttgacaagcgggcagaatatcaaggccggttaggtggcgcggtggcaatggccgccagtcttggcgcacctatcgcgaggtgttcagtt
cgaaaacgccatgttgggtgttgccaagcaggtgaaggcgcgcgcgacgaaagcgaaagctgaccaaagttttttgacatgggcaagcagatccaacagcttggccgtgaa
atcccccttgctaccaatgaccttgccgacatggtgacggctggcgcgcgcgcatgggcgtggcgagggatgaactgattgaattcaccgcaccgcagccaagatggctgacgcgt
tcgagctgcccgccggtgagctggccgacagcatgggcaagattgccgggctgtacaaaatccctatcccggccatcggtgagctggccgacgcaatcaactacctcgatgacaa
cgccatttcaaaggcggtgacatcattgatttctgcaacgcaccggtggtgtggccgcaacggtcaaaatcaccggcaaggaaatggccgcgttgggtccaccctgctgacga
tgggcgagcgcaccgaaaccgctggcaccgccgtgaacgccatgatgtcaaaatttggcgtgccgagaaaggaaccaagaaattccgcgcggcaatggatgacatcgggctgt
caaccgaagcggtgcaaaagggtatgcagaaagatgccgttggcacgctgcaaaagatcgtcaccgccatcaacaagatgccgaaggatcagcgccttggcatcatggttgacct
tgttggccttgagcattccgacacgctggcgaagctggcaaacggcatgggtgaattccgccgccagcttgagcttgcgaacggcgaggcagccaagggcagtatggatcgtgaa
ttccaagcccggcttgcgaccactaccgcgcagtggaaaatcaccaagaacgtgctgactgaattgtctgtgacgttcgggcaagtgtgttaccggccatcaacgatgtgcttaa

ccgtcatcccgttcgcatccaagctggcagacttcactaaagagcacccgcagctaaccaaagtattgttggcaccactgcggcgctggtgggcctgcgcatcgcgacgttcgcc
gccggatatgccttcacgttctgaaaggtgggggtgctcaaccttggcgttgccttggtggcacacgcgccaagatggcgatcactgcggcatcaacggcagcaatgggcgcag
cgtccaaggccgcaagcgggtggcctgatgggcatggcaaccagagcactgccgctggtggctggcgctgttcgcgcccttggcgttgcgctgatgaccacgccgattggctggat
catcggcggcatcgcaactgccgggctgctgattaccgctattgggacggcctgaaagcgttcatggttgaacgtggcaggggttcggtgatgcaatcaagccggtcactgacc
ggtttggcaccctgctggatatgttgaagccgctgcgcccgtgttgatatggtggccggtggcgtaaaaatcgcatgggattggttcaccaagctgttgagcctgtgagcttcacc
agcaccgagctgaaaaaggccggtgacgccgggcaggaattcggcaaggcgctggctggtggcatcgagctggtaacccgccgctgcaatggctgattgatagcctgaaatg
gctggacaacaacattggcgcggtgctggacaaggctgttaactcaaaaacaccgttgccaacaacgccgggcaggcggtggggcgacaccaagaaaatgtttggttcgtgggat
ggcttcaagcaggccgttggtctggaagcgcgcagccgcagaaagcgccaccggcagcaccgcaaatggctacaggggcgagcgagggggccagctacaccgacaacag
caaaaacgatattcacatcacgcagcgcgcaggtgagagcaacgccgaccttgccaagcgcacggctgacgagctggaacgccgccgctgttcgtcagaacagcatgatgc
aagacggagcaaccgcacaatgagtgttcaggttcagttgggcagtacaacataatgatggcgctgggcagctttcagttcagcattcagacggcggttatcaggaactgaaccg
ccgcagcgaatacaaatggccgtcacagcaccgctttggtcagcggccatcatcgcaattcgtgggcatcggtgaagatacaatcacgcttcggggcggtgatttatccagaataccg
gggcggattccagcagatcgagcggatgcgttcgattgccgggcgcggcagtcactgatgttggtggatgggctgggcaaggttatgggccgttgggttatcgaagcgattgac
gagaaacaacattgttcgggcggttcggcgcaccgcgcaagatggaattcagccttgcgctaaggaaattcgactgatgactaaatacattaccagcgaaggtgacaccgctgatt

atatcgctggaagtattacggcaatcaggatgacggcaccgttgaggcgttgatagaggccaacaaggggctgtctgactacggcccggagctgcccgcaggcattgaaattac
gctgcctgagatcgtcaccccggaaccacgcaggggggtgaaactgtgggattgaccagcgcaggaaccgcgccaacgttcgggttattgccaacggcgttgacgccaccctt
aaagtcaatgagcgccttgtcagcatcacggtgacagacagcaccgggtttgattccgacatgttggaatcactcttgctgacgatgaaccggcaaaccgatagagataccggaa
acaggcgcagagcttgaggtgttcttaggttatgacaactggacgcagcgcgatggggctgtttgtcgttgatgacatagagctttcaggctggccgggtgaaatgattatccggggcc
gggctgctccttacgacaaatcgaagggtggcaagaccagcttacagagccagaaaacgcgcagttggccgaaaggcaccaagctgggcgacatggtgaagaaaatagccagc
gagcacggcatggaacctgccgtttcggaatcgttggcgaaaatcccgtgccgcatatcgatcaggccgatgaatctgacatcaacctgctaaccgcatcggcaggaagtatga
cgccacaaccaagccatcaggcggcaagctggtgatgaccaagcgcggcgagggcaagacggccagcggcgaagaactgccagccgtgacgctgctggcgagtgttgcac
cgcgttcgcatgacgcaatcacgccgggaaagcgcaggcacggtggtggcgactggcacgcaaccaagaattcccgccggaacgaaatcaaggttggtgaaggcgagccg
gtgcgaggtgaaatattatttcccgaccgacgcaatggcgctggaagccgcgaaagccgagttgcacaggcggcagcgaggtgaaagcaaagttgccgtaagtatgccgggt
gatccatcgtagccgcagagtgttaagtaacgcttgccgggtccgttcaggtattgacggcgattggctaattaatcgcgttacgcaccgtattgatgaatcaggctattcgtgcgatg
tgagggcagaaaagccgaacgatgacaagaccgaggaagtagaagtatccgaaacgtaaacgttatgcttgcataatcctacatcacgcaatatcattatttacaccggcgagcaa
tcagccgggtttttgccaacacaatcattgtttcaatcaaggggttacttatgagcattcgcaagatgtacgacgccaagcagttgaaggcgaaacgcaacaacacgttccttgtgga
ctcgactgagctttacatggaacccggctacaacatccgcgatggcgagattgaccaagacaaggtagcggcgcttctgttcgtcgttcattggctgacgagtacgtgccagcaatcgg

cg ttgacattactgacaaagggctgcgcgtgaatgacggccagcaccgttaccttggcgcacagatggctattgcgcagggtaaagaacgcgtcctgttggaagtgggtgacgtga
ccgggctgagcgaagccaagaaaagttgccctgatgctgcgggccaacgatggcaccccaacgtcaaacaatcaagcgcgctgaggcttacgcccgcattggcggctgacggcctg
aacgcggttcagattgccgaggaagtgaagcgcagcccgctcagacgttcgcaacatgctggcgctggcccgatgcccggcaggcatcaaggcgcaggttcggcaggcagcat
gagctatgtaaccgccctgaaactgcacgccgaccacggcgatcaggcgggaagaggttgccgcgcagttgcaggaagaggccaaccagagcggcaaggaaaaggtaacacc
gaaacaactggcaccgaagccgccgaaggaaccaaggaacccggcgaggccaaaccgggcaagttccctgcccgaaggcgtgcgcacgcgtgagctgtccaccaact
ggaatgggtgaacggcgacgaaaagcggcttgccagcgcgaggctgacgaatcgtgaccctgcgcattcccgcgggggtgtccgcgagctgcgcgatctgctgcgcctgta
ccaaggcggcgaacagtgaagggttgccgcgtggtggtctggcgctggtgtacggtctgcaaaagcagaccgccgccaacggcaaatgcgttgagctggtgcgcgtcgtgtat
ccgttgcaattcttcacgcgccccacggatggaaccaaagccgtaatggaagatgacggcggcggccctgcgtggctggtgaccggcgacgtgacgacaagcaaaggccatca
cggctacggcctgtttccccggccaacctgatgccaatcgatgactgcgacccggacgcggttgacgagctgaccaaagacaaacccgccgaactgacggcgtaaggaatatt
gtggctatgaactgccctaactgcggcaagccttcacacactcgcagcagtaaatacatcgcaacaggttgaaagagatttattaccaatgcactaacattgagtgtccgcgacattc
aggacgcgggaagagttggtgaactacatcagcaagccaacaggaaacaatatgacggaagcggagcgggtagccgcattgggctaagtccaaccaacgagaggcacaaga
gcaggccggaaggcgtaaggggtgagtgtgaaattgaccaaagatgtaaaagatggtgcaaatctatggttggtggaagccaaggcaaaggacggcggcgtagtgcgctggatg
ctcaaaccagcattaagcgtttgccgctggatgatcagaatgcgcgcaacattatagcgcgaagatttaatgagggcgcgcagagatttgcgcaatatggcagaactccaccaccg

gcctgataacaacagccccccaagtgcgggctttttgtgggtggcgaccccggcaggaatcgaacctgaacccccagcttagaaggctggctctatccggtgagctacggg
gccgtgtaattatgtggcggtatcagcggtaagggtttgcactaccataccctaaaccgtaccctaattctgtttagcttaccctctaagtgtctgtaattcctcgcttattaactttgttgcatc
cgcttagaaggcggttacagtggcttaatcgcaagtcacaggaatcacgcgaccagccgctaagccactgcgtttaaacatcattctgcatcattcccggctaagtgtctgcgttcag
atcctgtttgacttgcgccaaccgtaccctaaaccgtaccctaaatgggggcataagccatgctgacagagcgccagatacaagcggccatgcgtgccgtgaccagtgaacag
tgctgaatgatggggccgcaggacgcggcagcggcagcctgcgcctgcgcacccgtgccggtgcaaagggccaaatgccacttggcaggccgtctggtggaacgccgggaa
acagaccagcaaggcgctggggcgctaccctgacatgagccttggcgacgcacgcaggaagtatgaaacggaagttcgtgacgtgttacaggcggggccgcgatccaaacgcag
tggttgcaagccgaagcgccgaccattgaacggatgtttcaggcttacattcaatcgctgaaagataaggcgcgggcccggtgggatgaatcagaacgcctgctgctgaccggc
agccacaatgccgctgacgatttggggcgcaacaccgtggcatccaccgtgaaccggcgggcgattgccgacctgctggcaaagggcacatcaagcgaggcgcgccgcacca
ccgatatgcagcgcacagctattgccgccgcatcattggggcgatgaaggctaccacgattacacgcaggaacgccgggtgattggggaatcaatatataaccctgttgacgcg
gttccgcgtgacgccggggccaacaagacgcgcgagcggaacctatcagcggaggaaataaagcacgcatggaacaacgcgccagaccagacaggcgatgtttgcggctgg
ttattgccaccggccagcgcgtcattgaggttatgcgcatagccggtgctgatgtggatttaaaatccgccctttggacgatgccagcggcaaagacgaaggcgccaagcatatgc
acatggtgccactcacggcgagggcggttgaaatcctgaacggctgatcgccattcatggtgacggctatctgttccggcgcgcgagggtgccaagggtgacattatcggcatt
ccgagcgcttagccgggcagccagccgcatggacggaataaaggcattccagccgcgtgacctgcgccgcacatggaaatcaagagccggtgacgctggcattgaccggtcac

ccgcgacctgatccaacagcacgcgcagaccgacaccggcagcaaacactatgaccggttcgactacctgccgcagatgcgcgaggctatgaaaaagtggcagattggctggc
agtggcattgcaatagtgtacattgaaagaacgttattgcacatgacgcaagaagcggcgggcggttacctctaaccgccaaggccgtgggaatgtgctagccggggctgatagg
tgcccactcctgccggtagccgcgccggtggcgcaaaagcggcgcataaccgtaagaacatttgccggggcctgagtccaagcgccacccggaagggaagagcaacgat
aagccgttgacaggttgaatgttcttagcgtgtgccacggcatgacccaaaaccccgacaagggttccccaacggaggtgatccctatctcccgtgcgagtggttagcagagcaaag
ccccaaatcgggggctttttcattcgtcgtttcgccgtccacaatcattgcgccgtgtaacgggcagtgccggcgccctacctcaagccacttttcgtaaccctgaccgtgtacc
cgcaaccatcagccttgcatcgcatttttcagccgggttgattgctttggcttggccgttgacgcgccgccaaccggtgacacctcgatttctccccttccccgtcatcaccgcttca
tcagcgccgacgcgcaggcgtgggggttcggatgactaagccacggcctcaaaagtcagcttggcgtgtggcatcgcccccaattcatcaaggaacgggtttcacgtattccttgaacgct
tcaccgggcgtggtggccgtcatcgccccgttaaggccaacgtgcttgacaccactgcaaacgcgcccttgtggccgtgctcaaagccaacagcggcgtgcgtcagttcgtgcc
acaggtggcagtcacacaagatacgggtcaacctgatccggcatgatgaagattcaaacgtgttatctgacgagcacttgctatgccaacactgcgccgccgtactcgaccgagcac
cggagctgcaaaaccctacagaaacccggaatttcggcagcgggtggccgtactcttcaaaacgtggcgcaaaactttgcggccagtgcatccaacctgcttcacgatccataaaat
atacctcagtgcggttaaacgtattggaataatagcggccaataaaaaagcccgccaatactgacgggctataagtaacgagtggttacataactaaaacggaatatcgatcaaaagtc
catagggcgttcgttactgccgccggttgctggtgggccactacggggccggggcggttgcccttcggctgctgtggctgccccagccgccctgctggccgctttgctgctgctggcc
gccaccgtcctgcggcttgccactcaacatgatcatttgccgttcattgctgagcacaatttcagtggtgtagcgctcaacgccttggttggtcattccacttgcgagtttgaacgcgcctt

caatgaacaccttgctgcctttccgcaggtattccccggcgatttcagccagcttgccgaagatgaccacgcgatgccattcggtttttcttctgttcgccggtggtcttatccttcagc
tttcagaggtggcaatggtgaggttagcaaccgcgcgcgcttcggcatatatcgcaattctggatcttgccgaggttgccgatcagttctactttgttcaatgagcctgccatatatgg
gccttaatatattttgcgtgaaagtttgacggcgtgctgctgtgagcatttgccgtcgcagtaaaggcgggtgttatcgcttcaaaatcttcaaagcagttgaggcagtagccccggcc
aacagctttggcgctgctggccggttgcggtggtgctctaacgctgcctcgcgttgcgcttttccaaatctgatgcgcgttcagatcgtcactcatggctagcactccccgaattca
gccagtgggcaggactcgcggtgatgcttgccgtaaagaccgcatgacgggcaggcatcaggctgcgcgttgctgtaacatgggttgagacaaccgcccgcgttccaaggca
attaccgccccggccagatagttgattgcgccaagcagttcagctacatcacggccagccggaaggcgtgcgattcctgcgctttttggcagcttgccctaagcgaaccctaagc
catagagttcaatcaggtgctgcatgggtgttcatcaaacggtttgccgaccgcgtgacgttcatggcccttaccgctggaagcctgcgcataagccctgtcaagcacactgcgcag
gctttcataatcacgatcactgtttgcattgtcgttgccgccttggtgttctgttcctcatatttcacgacggcatcaagtgaataccgcacgcgggaaccaaactttgtatagctggcc
ccttacccttggtgcgccagttgccagtgaccggtggtaacagcgccattccagcgcgtgcaccagttcctgtggcgtcagataagttgttgccgtctgtgccattgattgccctttctta
ctgctggttatcgggtgccaagcacctgctggtttaaatcgccactgctgctgcgtcctgatccgtggattcagccttggtgttttcgaaggcttcgcagccgcaatgattgtgtttaga
aatcatccccaacaccttgcgcaccttgccgggggtttgcccacattccttagtgtagcaacgccctgttcggtgacgccgcgcaggtgttgcgccacttctaacgaccgg
atcaagctgtttcgcgcgtcaatccagtcacgcagcgccttgccctgttcgctggtgaagcaagccctcatgccagcccggcgcgcgaagatttcgccgtgccgtcaccagactt
ggtgacttcacgctgcgtgccgcctgcccacatcgatgctggcggtcatttcgaacatgaagtttttcagtgaccggcaaacgccctgcggttcgtactcagttttgccgttcacc

ttgaccaacttcaccttttcgcgggcgcggtatgcaaacgatgatgtgcatgttgattgcaacagcgcattcatgaaccgcttgtgttctgccttggccttgtccactgcggtttaagcg
ggtagccagcgtggcgatctcttcacagccgccggtgccttcccactcatgcgtaacgctatcgatgatcagcacttcaacgccgagcggttcaaactgcttgatggcggtcaatgtag
cgctgcgggctgaaaggcgctctaaatcaccaatccagaattcaacatcagtgggggtgcgttgggttatcgcgagcacctcagaatacaggctgccgcgttgtttccgtatcga
ggaacccgatttttccgggttagttcgccagaccataggccaattcaatggccgtgcgggtttgccgccgccgctgatgccagccagaccaatgaccagccgcgcgttcac
gtttgccttacgaatatttacaactgacattatgctacccccctcaacgaattttggttttgttggcggtccatgctggcagggttaatggcttgatcttgcgccatatcccggccacacc
ccggagcgcgtggcactccgcataaatcttcaaactcgtgctgatactgcgccccggcccaactccaaagtctggcggtccagcacgtacacgccgaccgcaaacggcggtttttctca
acagcaacgaacacgaaaccgcgcgggcgcttgccggtggcagcctcgatgccgtcaaggtagaacgcggcctgcacgtcatagcggaaattcgcaatcgacttggcaaagcc
atccggccccggcggtttcggtggtctttaggtcaacaacaatgttgcacgcgccaccagtctggacggcagcggcacagttcgccgggtcagcggatcagtcagtaaaccgactg
ttcggccttgcctgcgccaatcagcttgctggccgccgggtggtctttgatggccttggctgcccgggtgtacggcgctcccactggtcttgggtcaggatctggcggtgagcggtgacc
gcttcccattccgccttaacgtctgaccacagcttcaccggcttgccgttggcggtcagccatgcggccatatcgtgacgggtggcgctgctggtgctcaacacatacggcggtgccgt
gcgcggcaaggtggctttccaagacttccgaccacaggaacacgtcaacaccgttttcacgcagggcgcgctgccagttccttgggtgctgccgctggtggacagtttaccggagcgc
tccgcgttcagtgattcaatttcagccttgagttccccgggtttcatatcctcgacgttcacgccaccgatcaccaagtcagaaacggattgccagtcacaccgagtgggcctgctta
atgcggtcaatcagttcagccttgctgccactggcttgcaatttcgggtgacgcagttcattcagttcattcagcatcgcaacaagctgttcgctgtcacgcacggcgcttgggtgagct

gcggcgcggttctgcgttgatttctccaccatcttgaccagcacttcacgatcatcaatcgcatcaggcatctggtcacggctgaacgctaacgcgtactcgcggtaaaacagttcggg
ttcaagcaccaagctatgaatttcacgcccgatgaaatacgcccttgtgtctggcttatcatcggtatcggcacgtaagcaaagcggaatgcagcgggctgcggtggattaggtcaa
ggccagatttcgaaatgcccggcccgctgtggtgaagcctcgttgatgtcagaataaacacccggtttcataattgccccttggtagagtgatgtaaaatgaatttctgttaaagcaa
cgcaagtataattaagtattcgcgcagttgtcaaagctttcgtgtgtagcctattaccttgccaatgacgggtgctttcattgaccggccttgtcacatcaaattatacagcgggttatcagc
aagtagcctaacgtgatcagggccagccggatgcatccgaaaaatgcgaacgtgcgcacctatcatgacgccgtacaggccgccgccttcaacaacggttttgcgcgtatcaagat
aaacgttgtcaccttgataattgtgggttccatcacgtcactggacactacaacaacagcgaagtgtccggctgaataccgaagaattcggcatcattctggaatgattttgcgacgtt
ctgcggcacatcctcgccaagcaattcagcttcaactgcaaccgagcgccttggccaagtttgccaatacgggaagtgttaccgctgcggttcgcgctcccaccggctaactgtcac
cgctgtgggtccaacatgtcagccacgtcctgcaacgtcatgcctgcggcttggcgctttgtctgattttgtccgggcatgtgaacgaattccctgtaaatcatcgtgaatgatcgg
taccgctgcggttgatcggagtcaaccggagtcactatttatcacacgtccggttagtgctaatttgcgcaagtataaattaacgcgatacaatgacaatttaagacgatgattaccgtt
aagggaattatgactgtaaagctgcgcgactatcaacaagacattatcgaccgtgggcggcaggccatgcgtaaacataaacgcgtgctgtttcaggcacccaccggcgctggg
aaaaccgcgcttgcatctttcatggctggtgaaacatctgcaaaaggtggcacggtttggtttatctgccaccgggcagaactggtgctgcaacaagtgtgactttcaaaaagtgtgg
attgagcacggattcatagccgccggttacccaatgaacctgcgcgcaggcggtcaaatttgagcatagacacgctgaaaaatcggctaaatgtgcttgcgccgccgagacttgca
atcatcgacgaatgccaccacgcgagcgcagcaggatgggcgcgcgtcgtgcaatggctgaccgctggtaacagtttcgtgatcggcctgtcagcaacccccggaacgcttgac

ggcaaggggctggatgaacactttgatgaaatgataccggggccatctgtggcgtggctgatggagcaaggccacctttcgcaataccgcatgttctgcccggacacgcctgacat
gaaaggcgttcgcaaatacatgggcgatttcgccaaaggtgaaaccgccgaaaagatggacacgccgaagctgaccggcaacgttatcaatcactggctatcacgcgccaagga
catgcagaccgttgccctttggcatcaccgtggcgcacagccagcatattgccgaacagttaaccttgccgggattccagcggcacacctcgacggcggaaccgacaaggccga
gcgcaagcgcacatccgtgggtacgctgacgggtcaatcaaggtgctgtcaaacgtggggctgttcggtgaaggctttgacctgtcagccatcgcgcagactgacacaacgattga
ctgttgacattgacctgaacccaacacaatcattgtcgtggtgcctgcaaaagtggggccgcgtgctgcgaccgtcaccgggcaaaactgccgtaatcctcgaccactcaggcaacg
cgctgcggcacggcttccccgatgatgaccggtcatggacgctggaaggcgacaacgacaaaagcgaaaaaagatgctgctggtgggccaccgccgccggtcatctgtgaaaag
tgcttcaacgccatccggcggccactgccaccagaatgcccgactgcggcaagcggctgattaaagaggccaaggaaatcgaggttcagagggcgagctgatcgaggttga
cgccgaaaagaaaagcctgatgcgccacacgcgcaagcaggaagaggaattgtgtaagacgcttgacgagctggtagcgcttggtcagcgccgtggcgtcaagtcaccaatgg
cgtgggcatcagacatcatgcgcaagcgcagcaccgctatctgttcgggtgattgataggtaaaaccgattggcgtgtttacatgagtaaacgctattattccacataggcgggcg
gcaggatgcagccggagaggagcaacgcaggggcttgatcgtagtatcaggattcccaaccgtgaggccgaacattggacactcgccgcaaggcagaaacgcttaccaatgaaat
cgaaccgaggctaccgacgaagcacgacgcccgaaccaaccaccccgccccgggtacgccggggcattcactgaggaatgaaccatgttcactttcgtttatcgcgggcaaaacgtt
caaatgccagttccgcaatgacctaaactgtgcagcttacctgcctgtcaaacggcatcagcaagacgctgaccacgccgaatattcatcattcacatcaggcgacggcggaagcgggt
ttgcgatcagcttcttgccaccgaaactgaggggccgcaaataatgagcaacgaacacgcgctacaaaacgccatccgcaatgcactggcgggcaaggcgctaattttccgcgcca

acgtgggcaagggctggaacggcaacaaggtgattaacgtcagccgccgatgatgctgaccgagatccgggcgatgtgctgattaagcaggccagaccgttgacaccgggc
tgccgggttggtttccgacctgttcgggctggtcaaggtgaccatcacgcctgacatggtggggcaggaaatcggcgtgttcgtgggtgctgaagtcaaagacgagtttgccgcg
tcagcccaaacaggccgcgttcctcaaggccgtcaacgacaacggcgggcgcgctggcatcgtgcggtcagtgtatgacgccgaacaactgattgccgggggtagcatgtgg
gatgcgcaccaaataaccgcacgttctggcgggcgctcaaagagcacgacaacattttgtcatggcggcaatggtgccacaagcaacgcgcaggtttacggcccgtgtcac
cagcgcaaatacgaagcaattaaaaatcatgggggtgaggaatgattgaaatttcaaagagttacgcgcgcgtgcgctggcatacttcaacggccttggtccgcgctgcgtaagttc
gcgcgcaacgtccagttggctgcaatccggttcggcgtgtccaccgggtgcggtcaatgcaggtggttttagactaccgaaacccggcccgcgcgtttcccggttcaccggcatt
gccaaatcccgcgcgtgcccgtcagcgtgaaggcggccaaatgatcaacccaaacgatgtgctgacgtatgacgagctgaaacggcagcgtgacggcctgttaacggcgcgtgg
tggggctgatgggttcattagcggccaaaaggcgtgcgtgcataaccacgaatgcaattgcgcttggcacgccccaaggatgccgtcaaacattgtgccgggagttatccgccg
ccggtggacaccacccggcgcagttcgaagcgtggcaggccaccagcatggctaaggcaacgccgtggcagcacgacattgcggcagccatcgcggaagccagacgccg
cagggtgaccggcaaacagcattatgccgtgttcagatgggtgaccgggttggcgtgtacgaggcaggcaagccagccgccggccactatggacaacccgcgatgattg
ccggggcgcggttagagtcatccgccgccggtgcaagctgtcaattgatgacatcccgtgattgccgagctgcgccgcgatggcctgactgaacgcgaggttgccgcaaagttt
gatgtttccgtgtcagccatatccgacgcatgcgcggcaaaagctggggcggcattcggaggttcaccagatgcaaacacgtgtgaccgtgaacgacctgaaacgctacgttcac
aacctgaacaccctgcacaaccttgatgccggtgacgccggttcatcaaggttgaaggatggggcaacttttacaccagtattgcgaccacgcgcggcttgtcagactgaccgac

agcgccgcaccgcgtgacgtcatcagcgagttaaagcgcaaagtctggcccgttatcttgaggatggcaaaagcatgaacccaattgattgcatcaagaaaaacattgtttcggagc
tgaccacgcaggggtgccagcccgggtcaacgcgcagcaggccgccgactatgccgccgggcagtaccgcacaaccagcacgcttggcaaagatccttacggcgagctgttgccg
ttggcgggagcaatggcaatgaagaatcaaccgggctttcggttcgtccaaccaagccgagagtgaacaggcgttttaaagcgtgatacgtaatgaataataacgtttacataa
gtaaatgcgccgtgttatcatcggcgcatattttattagtaggggggttatatggacgagaaaacgaagaaactacgcgaaatcatggctgccacaatctaaccaataaagccgtggg
cgaaatacttggccggtctgaccaaactgtgcgcatctggcttgcgccaacggggggccgcgtcatccctgatgccctgcttgaactgctagcgtgaaagtggccgcgaacgtatg
aacgcctgcacttgggaaggcgtcaacggtcaccctgattgatggccgcgaagtgctgagcgattcaccggaatggaaggctgaatgcgaagcgcgctacctgctggcacgtccta
ccgttgacgagcgccgcgcatctgtggcagccatcgagaaacggcgcggttaaggcagcacgcgaagatttagaacagcgcgcatctggcaaaaaagataacaaggg
gccaagatgcaaacattacgcgatttgacagaagaggaaatcagccaagccctttcgttcacacgcctgatgaccgtgatacttgggtggaaaatggcctttgccatcaaatctgaatt
gggtgatgccggtttgatattgggatgattggggccccaatcgtctgactacgaagaacgcgcatcacgccacgtatggaagtctgcaaagtgggtggacgcgtcaccatcgg
aacctgatttgggaagcgcagcaacgcggcttcaaactggaagcgcctgaaacgcaggtgatgaccgatgaagagattgccgagcgccaacgcgtgcgcaaggcagctaaag
acaaatccgcccgcgaggaacgcgagcgccagaaaagccgcgcaggaactggctaaccagtgtgggatgaagccaccgaaacgcacgaacaccctacctgacgcgcaaac
attgcaacgcctatggccttaaaactggccgttggccgctgcgcaaccgtcatggcgaagtgtacggccacgcacctgacgtgctgcttatccctatgcgtgacgcgtctggcgctcat
cacctcattgcagggcgtgttcagccagatgccgaagggtacaccaagggcaaatacgttcctgattgacggcaaaaaatccggttcattggcacatgatcggcaacatcgggtgatg

gcaacaccattgcgctggtggaaggctacgccaccggggcaaccatccgcgagctgacaggctggtgctgctggtctgctttgaccgcaccaacctgatcaccgtagccgaag
ccatccggccaatgacgcaggggcaggcaatcgtcatctgcgccgacaatgaccagttcacccgaagaatcccggcgtaactgacgcaaagaaagccgccaacgcgattggg
gccaaggtgcttatcccgcatcccagcgggaacggctgagaacggatacagcgacttcaatgacctttacatgactgagggggccggatgtggcaatgcgacagcttggcatag
agccaccagcaccagcagaaccggaacacgatgaaccggccaacgacaacgaaccgttctacccgctgggatacaaccggggcgaatatttctaccttgtgaacggcacgcagc
aaatcacatcgctgaccgcctcgcagcacagcaaatcaaacctgatgcaaatggcatcactgacttactggagcatggaatacccgccaagactggcccggcatgggatgtggc
cgcagatgacctgatgcgcaaatgcgaagcgcggggcgtatttcaactgacgtaatccggggccgtggcgcatggatggacgcaggccgcacagtgttcatttcggatcgcac
ctgtgggttgatggccgccttacgtcatccaccggcatcaaatcccggtacgtgtacgagcttgaccgcgagattggcacgccggttgaaaccccgctgaccgatgacgaaggccg
caagctggttgaaatcgcgcaactgttccgctggacgaaaccggcaaacgcggcactgctggccgggttcgtggcactggcaccactgtgcggggcattgcgctggcgtccaca
cgtctggatcaccggcggggctggctgcggtaaaaccactgttctgaatgactacgttcaccgcctgcttaacggcatggacatttcgcacagggcaacagcaccgaggcgggca
tacgccaacattgcgctgtgacgcaaggccggtgctgttcgatgaatcggaacagaacaacgaccgcgaggccagccgctgcaaacgtgctttcgcttatccgccaagcgtc
cagcgagtcagccgcatgacgctgaaaggcacagcgaccggcgacgcaatgcagttcatcattcggtcaatgttctgcctgtcatcattcaggtgggcatgaagcaccaagcag
actatgaacgcctgaccattctggcggtgaagccgaaagaagataaccgcagcgcggcgaggaatgggcagcgctcaaagataaactttacctgattgagcgcgaccgggaatt
acccgcgagactgtttaaacgctctttagacctgctgaaaacgacgctgaaaaacattgtcacgttcgtggatgccgccccaagaagtccggcagcgtgcgtgagggcgaccaat

acggcacccgtgtggccgggtgctggtcactgacaagccgcgagctggcaacgcctgaacaggccgccacaatgattgattcattcgattgggaagagttgcgcgagaataccaa
aatcaatgagtctaatttagctctcagcgccattatgagcgcagaactgcgtctgcctgtaggtggtagtgcctcagctctacgaaatcgctctgaaggccgctgggcgcatggtggag
ggtattagttgcacatcgctcagaggctgtggccgtgttgggccgcgcaggcatccgcgtggagactgacaagatcctgctgtcaaacaacagccagaagctgaccgaaatactgc
gcaacacccccatatgccgcagactggaaaggccagctattgcgcgtcgatggcgtcaagcgtcatgacaaggtagtgaagttcagcggcgttgcacgcgctgcatagccgtgcc
gctatcggtgctatcggatgacccggaaacgcttgatatgccgttttgataaaagcccgtgaatgcgggtttttattttcattaataggtaaaaccgattggagtgtttacgtaggtaaa
cgctattettacctcaacgaaacggcactaccgccgaccgactgagggcaagaaaatggctaagactaaatatttcgcagttgacgcaaacggcaaaacccacacccgcacaagc
gcacgcacctacacgcatatggtggttgttctggcgaatctggaagctggccgggaagccgcccgcagcgaacataaccgcaaggcttacgctcgcaaccacgcttttactgcc
agaagctggcccagctccaaaatacagcagcagccctgccgagatggcgcgctataaagcagcagcagccatgacctgcgaggagtacgtcaataattgcgtagccaacgcgct
ggcagcgattgacgcacgcggcggcgagtttgcaaatgattgggctgatttcggatggtgtggccgtctggacttggcgcagaagctggcagcaaaatgggcgcacatgggcaa
agttgagattctggaagcgcagcaggcataaaccaaccagccccggaaccaaccggggcatctatggggcgaaacctgaaaagccaaaaagacaaactgtttgacgcgttgca
gaccgcgcagggcgctttgatgaacgttcggcaggccaaggctgtgctgttctgaaactggaaagcctgccggaaggcgatgaagcgtatttgattgacgccgtgctgaccctcg
tttgcgaggccgagacgcagcttgatgccgtgcaacagatcggcatgaaggatgatgacccgaagccgtgccggtgacggcgcgcgcaagataaaccaacctgccccggca
acggggccaacaaccaacaagtgaggaatcaacccatgaccaatttcaaagcaaaccgggaagccgtggcaaaactgaaagccatgtttactgaaatgcacgaactgtgcgttgc

aaataacatcgctatgttgctgccatctgcaccgaagataacgaccagttcagcgccctgagcagttcggcatacgtggatagcgacctgacgccgacgcctaacgcaatcatcgc
cgctgttgaaatcatcagagcgccggacgttcctgacgagatggtcaaagcgctgcgcctgcgcaacgtgatggccggtgaatgcgattgcgacgaatgccgcgagaaccgagc
cgcacaggcgcactaaccaccctgaacgccccgccgcgtggtggggcgcactactaggaaaggaacatatgggcataatcagacaccctttattagtcgagggttcgacaag
ctgagcgaagcagccagatgtaaggcaaccgaaacggttggcgcgttctgcatgtttgacacgccgacagaacgcaaccgccgccgaagatgatacgtgagttgagccttattc
agattcgcgccgccggtgaactggttgaacagcaaactatcatggggctgttctaccaagcgaaggcatcgcggtgcgcgagggcatcaacgcagcaatcagcatcattaacga
catgtgggccgacgagtaacaccaacggaaaattccagcgtaacaccaccaccctgcccgccactgcgccgggttttttacgcccgcaatccataccgaaacggtcaaaaaacc
accgccgtaacgctgttttgttaccggttacaaaatacatcaataaaatcaacgcggtaacggtaacgcgttacgcggaactatagacatatagaaatataaaaatatagggtgagtta
catttctcatgtgtgtctataataataataatgttacttctgttacttattattttatagagcaaaaacagtcatttagcggtaacaaaatgcggtaacagcgggtaacgtttcggcgtt
actgttaccgtggcgcttgtttacacattaggctacaatccccactattgactttacttgtgattattgggggttacatggagttaacgcagacagttcaggacatagctgacgttattggcc
gtgaacgtgcgctatacctgattgggaaactcccaaccacacgcgttgagtcaaggggctacaacaagggtttgtgtacgtgcaaagaacctgccagttgatcacctgttggttact
atccttggttggaacgatgcagccaagttagtgcgccactttggtggtgagctgatacaggtaaagtaattgcgaatatattaccgcgtttccttcaccgcagcatcaaaaaatgacc
gccgatggcatgaccgttaaggccgttgccgagcttcttgactgtcagagcgcaccgtcagcagacacagcgcagacaaacccaaaaaagaaatcacggcggaatgacaac
aatccgcaaatcaaccctatcagggccacagcatgaacgatcaggtttccgtgaattcccctattgcaaaaataatcagtgcgcttggcttggccggtattacgtcatggtcagagttcg

ccagtgc atgtgccgcgtgtataccctgctgcta atcggatgaatgggtgtacaagaaatcatccgccccgcctttgttcgcaacggtttc atcgcaggtgataccgatggcgaataa
aaaactaatcgggcttgttggcgcagcctgcgccgccatcctgtacaccgtcaccgccgaagtatgaaggcacgccgcaa atcggctacctcgaccccggttgccattcctaccgcct
gcaccggccacactggccccggacgttgttggcaagcgctacaccaagcaggaatgcgaacagatgtttggatgaagatatgtccgccatgcttcggcggttctgaaatgcaccc
cgcaattgaaaggctgcacctatcaattagccgccgcaagcgactttgccttaacaagggcattggcgcttactgtggcagtagcggtgctgcgtacttcggcagggtgattggaa
gaacgggtgccgggctatcaaccagaaaccgaacggccagcctcagtgggtgtttgccactgacaagcatggccgcaaggatgttgccgggcttggtcaa acgcgcggctga
gatccgtaaaattgtgagactgacttatgaaaccagccaccgaaacaatcattgcgttggccgtatgcgctggcctgtttggcggcgggctgttc atcggcggttgatggggctaacca
gcgatggcaggccaaatggtctgaacgcgatgcctcagacgcccaagcatctgcgctggaatctgagcgcgcacgcgctgacgaacacaaggccgctgaaaatgcggctgctat
cgataaggcatatcaagagggcgctacacgatgccgagactaaagcta atcgcattatcgctgacctgcacactggcaatctcaggctgcgccagtcgcttacctgcaccatccgtgc
cgctgacctgtccagcaccaacagtgccgccccgcgtcactgatgcggccagtgccgtgtggactttcaacagcagatgcagagtttctattcgattcgagagcgagccgacaaagt
agccgagcagttgaaggccgcgcagcagttcattcaatgcgaatacgaacgcggcaagaagcgtgccaatgacaggcccaa atgagaacgcctctcaacgccaaagaaaaaa
aaggctactccgacgccccggacggcctgcgggggcattgactcaggcagcatgagctatgtaaccgccctgaaactgcacgccgaccacggcgatcaggcgga

>Feature vB_Slq_MQ-4

78 605 gene

gene gp01

78 605 CDS

gene gp01

codon_start 1

transl_table 11

product terminase small subunit

589 2634 gene

gene gp02

589 2634 CDS

gene gp02

codon_start 1

transl_table 11

product terminase large subunit family protein

2641 3180 gene

gene gp03

2641 3180 CDS

gene gp03

codon_start 1

transl_table 11

product hypothetical protein

3180 4736 gene

gene gp04

3180 4736 CDS

gene gp04

coden_start 1

transl_table 11

product phage portal protein

4813 6783 gene

gene gp05

4813 6783 CDS

gene gp05

coden_start 1

transl_table 11

product major capsid protein

6845 7135 gene

gene gp06

6845 7135 CDS

gene gp06
codon_start 1
transl_table 11
product hypothetical protein

7135 7488 gene

gene gp07

7135 7488 CDS

gene gp07

codon_start 1

transl_table 11

product hypothetical protein

7491 7823 gene

gene gp08

7491	7823	CDS	
		gene	gp08
		coden_start	1
		transl_table	11
		product	hypothetical protein
7810	8367	gene	
		gene	gp09
7810	8367	CDS	
		gene	gp09
		coden_start	1
		transl_table	11
		product	hypothetical protein
8370	8951	gene	

		gene	gp10
8370	8951	CDS	
		gene	gp10
		coden_start	1
		transl_table	11
		product	hypothetical protein
8948	9598	gene	
		gene	gp11
8948	9598	CDS	
		gene	gp11
		coden_start	1
		transl_table	11
		product	phage baseplate assembly protein

9646	9984	gene	
		gene	gp12
9646	9984	CDS	
		gene	gp12
		codon_start	1
		transl_table	11
		product	Phage baseplate assembly protein GpW
9985	10899	gene	
		gene	gp13
9985	10899	CDS	
		gene	gp13
		codon_start	1
		transl_table	11

product Phage baseplate assembly protein GpJ

10892 11485 gene

gene gp14

10892 11485 CDS

gene gp14

coden_start 1

transl_table 11

product Phage tail protein

11487 13889 gene

gene gp15

11487 13889 CDS

gene gp15

coden_start 1

transl_table 11

product prophage tail fiber N-terminal domain-containing protein

13892 14698 gene

gene gp16

13892 14698 CDS

gene gp16

codon_start 1

transl_table 11

product hypothetical protein

14765 16270 gene

gene gp17

14765 16270 CDS

gene gp17

coden_start 1
transl_table 11
product Phage tail protein

16279 16584 gene

gene gp18

16279 16584 CDS

gene gp18

coden_start 1

transl_table 11

product hypothetical protein

16581 17246 gene

gene gp19

16581 17246 CDS

gene gp19
codon_start 1
transl_table 11
product Phage tail fibers

17372 18796 gene

gene gp20

17372 18796 CDS

gene gp20
codon_start 1
transl_table 11
product putative phage tail protein

18796 19305 gene

gene gp21

18796 19305 CDS

gene gp21

codon_start 1

transl_table 11

product Phage major tail tube protein

19364 19660 gene

gene gp22

19364 19660 CDS

gene gp22

codon_start 1

transl_table 11

product phage tail assembly protein

20120 22141 gene

gene gp23

20120 22141 CDS

gene gp23

coden_start 1

transl_table 11

product phage tail tape measure protein

22138 22545 gene

gene gp24

22138 22545 CDS

gene gp24

coden_start 1

transl_table 11

product phage tail protein

22545 22754 gene

gene gp25

22545 22754 CDS

gene gp25

coden_start 1

transl_table 11

product putative tail protein X

22751 23794 gene

gene gp26

22751 23794 CDS

gene gp26

coden_start 1

transl_table 11

product putative transcriptional regulator

23904 24785 gene

gene gp27

23904 24785 CDS

gene gp27

coden_start 1

transl_table 11

product putative transcriptional regulator

24782 25099 gene

gene gp28

24782 25099 CDS

gene gp28

coden_start 1

transl_table 11

product hypothetical protein

25115 25357 gene

gene gp29

25115 25357 CDS

gene gp29

codon_start 1

transl_table 11

product ogr/Delta-like zinc finger family protein

25367 25576 gene

gene gp30

25367 25576 CDS

gene gp30

coden_start 1
transl_table 11
product hypothetical protein

25689 25608 gene

gene gp31

25689 25608 tRNA

gene gp31

coden_start 1

transl_table 11

product tRNA-Arg-TCT

25994 27205 gene

gene gp32

25994 27205 CDS

gene gp32
codon_start 1
transl_table 11
product tyrosine-type recombinase/integrase

28236 27556 gene

gene gp33

28236 27556 CDS

gene gp33
codon_start 1
transl_table 11
product hypothetical protein

28837 28334 gene

gene gp34

28837 28334 CDS

gene gp34

coden_start 1

transl_table 11

product Single-stranded DNA-binding protein

29062 28853 gene

gene gp35

29062 28853 CDS

gene gp35

coden_start 1

transl_table 11

product hypothetical protein

29463 29065 gene

gene gp36

29463 29065 CDS

gene gp36

coden_start 1

transl_table 11

product hypothetical protein

29662 29450 gene

gene gp37

29662 29450 CDS

gene gp37

coden_start 1

transl_table 11

product hypothetical protein

30662 29676 gene

gene gp38

30662 29676 CDS

gene gp38

codon_start 1

transl_table 11

product putative replicative DNA helicase

32005 30662 gene

gene gp39

32005 30662 CDS

gene gp39

codon_start 1

transl_table 11

product Exodeoxyribonuclease VIII

32637 32083 gene

gene gp40

32637 32083 CDS

gene gp40

coden_start 1

transl_table 11

product putative DNA binding helix-turn helix protein

32784 34208 gene

gene gp41

32784 34208 CDS

gene gp41

coden_start 1

transl_table 11

product putative DNA helicase

34471 34662 gene

gene gp42

34471 34662 CDS

gene gp42

codon_start 1

transl_table 11

product hypothetical protein

34662 35072 gene

gene gp43

34662 35072 CDS

gene gp43

coden_start 1
transl_table 11
product hypothetical protein

35074 35238 gene

gene gp44

35074 35238 CDS

gene gp44

coden_start 1

transl_table 11

product hypothetical protein

35235 35474 gene

gene gp45

35235 35474 CDS

gene gp45
codon_start 1
transl_table 11
product hypothetical protein

35471 35716 gene

gene gp46

35471 35716 CDS

gene gp46
codon_start 1
transl_table 11
product hypothetical protein

35709 36086 gene

gene gp47

35709 36086 CDS

gene gp47

codon_start 1

transl_table 11

product hypothetical protein

36071 36310 gene

gene gp48

36071 36310 CDS

gene gp48

codon_start 1

transl_table 11

product hypothetical protein

36307 36549 gene

gene gp49

36307 36549 CDS

gene gp49

codon_start 1

transl_table 11

product hypothetical protein

36631 36816 gene

gene gp50

36631 36816 CDS

gene gp50

codon_start 1

transl_table 11

product hypothetical protein

36813 37037 gene

gene gp51

36813 37037 CDS

gene gp51

codon_start 1

transl_table 11

product hypothetical protein

37050 39743 gene

gene gp52

37050 39743 CDS

gene gp52

codon_start 1

transl_table 11

product topnim domain-containing protein

39872 40306 gene

gene gp53

39872 40306 CDS

gene gp53

coden_start 1

transl_table 11

product hypothetical protein

40352 40600 gene

gene gp54

40352 40600 CDS

gene gp54

coden_start 1

transl_table 11

product hypothetical protein

40654 40980 gene

gene gp55

40654 40980 CDS

gene gp55

codon_start 1

transl_table 11

product hypothetical protein

41035 41328 gene

gene gp56

41035 41328 CDS

gene gp56

coden_start 1
transl_table 11
product hypothetical protein

41719 42183 gene

gene gp57

41719 42183 CDS

gene gp57

coden_start 1

transl_table 11

product hypothetical protein

42180 42386 gene

gene gp58

42180 42386 CDS

gene gp58

coden_start 1

transl_table 11

product hypothetical protein

42376 42882 gene

gene gp59

42376 42882 CDS

gene gp59

coden_start 1

transl_table 11

product lysozyme