

Programming Assignment Science II

1. Restriction Enzyme:

Name: Nael

Cut: GCC / GGC

Recognising Sequence: GCCGGC

5'... GCC GGC ... 3' 3'... CGG CCG ... 5'

2. Genome Sequence:

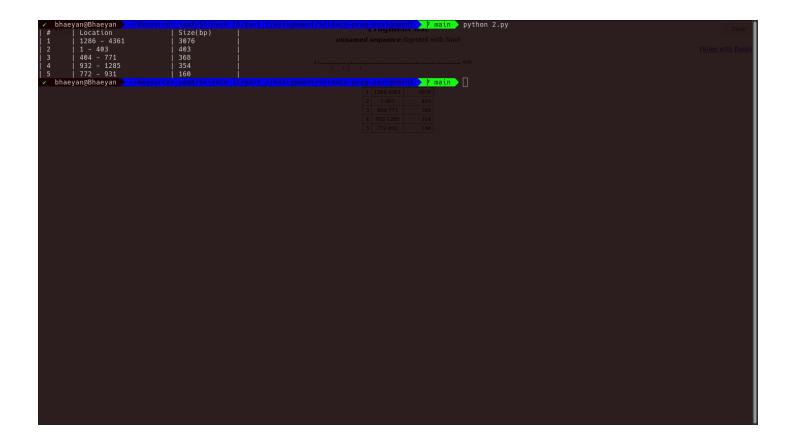
Name: PBR322

Size: 4261 bp

Sequence:

 ${f c}$ gggcctcttgcgggatatcgtccattccgacagcatcgccagtcactatggcgtgctgctagcgctatatgcgttgatgcaatt cggttgctggcgcctatatcgccgacatcaccgatggggaagatcgggctcgccacttcgggctcatgagcgcttgtttcggcgt ggcctcaacctactactgggctgcttcctaatgcaggagtcgcataagggagagcgtcgaccgatgcccttgagagccttcaacc cagtcagctccttccggtgggcgcggggcatgactatcgtcgccgcacttatgactgtcttctttatcatgcaactcgtaggaca ${f t}$ ggcggccgacgcgctgggctacgtcttgctggcgttcgcgacgcgaggctggatggccttccccattatgattcttctcgcttc geggetettaceageetaaettegateaetggaeegetgategteaeggegatttatgeegeeteggegageaeatggaaegggt ${f g}$ ccac ${f g}$ g ${f g}$ t ${f g}$ ctcct ${f g}$ tc ${f g}$ tc ${f g}$ gaccc ${f g}$ gct ${f g}$ gc ${f g}$ g ${f g}$ g ${f g}$ t ${f g}$ ccttact ${f g}$ gtta ${f g}$ ca ${f g}$ aatca ttcgtaaagtctggaaacgcggaagtcagcgccctgcaccattatgttccggatctgcatcgcaggatgctgctggctaccctg: ggaacacctacatctgtattaacgaagcgctggcattgaccctgagtgatttttctctggtcccgccgcatccataccgccagt

cggtcacagettgtctgtaageggatgeegggageagacaageeegteagggegegteagegggtgttggegggtgteggggege tggaageteeetegtgegeteteetgtteegaeeetgeegettaeeggataeetgteegeettteteeettegggaagegtggeg cacctatctcagcgatctgtctatttcgttcatccatagttgcctgactccccgtcgtgtagataactacgatacgggagggctt ${\tt acgggataataccgcgccacatagcagaactttaaaagtgctcatcattggaaaacgttcttcggggcgaaaactctcaaggatc}$ ggtgagcaaaaacaggaaggcaaaatgccgcaaaaaggggaataagggcgacacggaaatgttgaatactcatactcttcctttt tcaatattattgaagcatttatcagggttattgtctcatgagcggatacatatttgaatgtatttagaaaaataaacaaataggg



Fragment list

unnamed sequence digested with NaeI

[Sites with flanks]

1 | | | | | 43

 #
 Location
 Size [bp]

 1
 1286-4361
 3076

 2
 1-403
 403

 3
 404-771
 368

 4
 932-1285
 354

 5
 772-931
 160