

Figure 66.1 Base Sequences for Bacterium A.

1	tctctgatgt tagcggcggg cgggtgagta acacgtggat aacctaccta taagactggg	60
61	ataactcgg gaaaccggag ctaataccgg ataataatit gaaccgcatg gttcaaaagt	120
121	gaaagacggg cttgctgtca cttatagatg gatccgcgct gcattagcta gttgtaagg	180
181	taacggctta ccaaggcaac gatgcatagc gcacctgaga gggatgatcgg ccacactgga	240
241	actgagacac ggtccagact cctacggggag gcagcagtag ggaatcttcc gcaatgggcg	300
301	aaagcctgac ggagcaacgc cgcgtgagtg atgaaggctc tcggatcgta aactctgtt	360
361	attaggggag aacatattgt taagtaactg tgcacatctt gacggtacct aatcagaaag	420
421	ccacggctaa ctactgcca gcagccgagg taatacgtag gtggcaagcg ttatccggaa	480
481	ttattgggcg taaagcgcgc gtaggcggtt tttaagtct gatgtgaaag cccacggctc	540
541	aaccgtggag ggtcattgga aactggaaaa cttgagtcca gaagaggaaa gtggaattcc	600
601	atgtgtagcg gttaatgag cagagatatg gaggaacacc agtggcgaag gcgacttct	660
661	ggctgtaac tgacgtgat gtgcgaaagc gtgggaatca aacaggatta gatacctgg	720
721	tagtccacgc cgtaaacgat gagtgctaag ttttaggggg ttccgccc ttagtctgc	780
781	agctaacgca ttaagcactc gcctggggga gtacgaccgc aaggtgaaa ctcaaaggaa	840
841	ttgacgggga cccgcacaag cgggtggagca tgtggttaa ttcgaagcaa cgcgaagaac	900
901	cttaccaaat cttgacatcc ttgacaact ctagagatag agcctcccc ttggggggac	960
961	aaagtacagc gtgggtgatg gttgtcgtca gctcgtgctg tgagatgtg ggttaagtcc	1020
1021	cgcaacgagc gcaaccctta agcttagttg ccatcattaa gttgggact ctaagttgac	1080
1081	tgccggtgac aaaccggagg aaggtgggga tgactcaaa tcatatgcc cttatgatt	1140
1141	tgggtctacac acgtgctaca atggacaata caaagggcag cgaaccgag aggtcaagca	1200
1201	aatccataa agttgtctc agttcggatt gtagctgca actcgactac atgaagctgg	1260
1261	aatcgctagt aatcgtagat cagcatgcta cggatgaatac gttccgggt cttgtacaca	1320
1321	ccgcccgtca caccacgaga gtttgaaca	1351

Figure 66.2 Base Sequences for Bacterium B.

1	taacacgtgg ataactacc tataagactg ggataactc gggaaaccgg agctaatacc	60
61	ggataatata ttgaaccgca tggttcaata gtgaaagacg gttttgctgt cacttataga	120
121	tggatccgag cgcattagc tagttggtaa ggtaacggct taccaaggca acgatgcgta	180
181	gccgacctga gaggtgatc ggccacactg gaactgagac acggtccaga ctctacggg	240
241	aggcagcagt agggatctt ccgcaatggg cgaaagcctg acggagcaac gccgcgtgag	300
301	tgatgaaggt cttcggatcg taaactctg ttattagga agaacaatg tgtaagtaac	360
361	tatgcacgtc ttgacggtag ctaatcagaa agccacggct aactacgtgc	411

Figure 66.3 Base Sequences for Bacterium C.

1	gcctaataca tgcaagtaga acgctgagaa ctggtgcttg caccggtca aggagtgcg	60
61	aacgggtgag taacgcgtag gtaacctacc tcatagcggg ggataactat tggaaacgat	120
121	agctaatacc gcataagaga gactaacgca tgttagtaat taaaagggg caattgctcc	180
181	actatgagat ggacctgctg tftattagct agttggtgag gtaaaggctc accaaggcga	240
241	cgatacatag cegacctgag agggatgatc gccacactgg gactgagaca cggcccagac	300
301	tcctacggga ggcagcagta gggaatcttc ggcaatgggg gcaacctga ccgagcaacg	360
361	ccgcgtgagt gaagaagggt ttcggatcgt aaagctctgt ttttagagaa gaatgatgt	420
421	gggagtggaa aatccaccaa gtgacggtaa ctaaccagaa agggacggct aactacgtgc	480
481	cagcagccgc ggtaatacgt aggtcccagc cgttctccgg atttattggg cgtaaagcga	540
541	gcgcaggcgg tttttaagt ctgaagttaa aggcattggc tcaaccaatg tacgctttgg	600
601	aaactggaga acttgagtgc agaagggggag agtggaattc catgtgtagc ggtgaaatgc	660
661	gtagatata ggaggaacac cgggtggcga agcggctctc tggctctgaa ctgacgctga	720
721	ggctcgaag cgtggggagc aaagaggatt agataccctg gtagtccacg ccgtaaagca	780
781	tgagtctag gtgttaggcc cttccgggg cttagtccc gagctaaccg attaagcact	840
841	ccgcctgggg agtacaccg caaggtgaa actcaaagga atfgacgggg gcccgcacaa	900
901	gcggtggagc atgtggtta attcgaagca acgcgaagaa cctaccagg tcttgacatc	960
961	ccgatcccc ccttagagat agagttttac ttcggtacat cggtgacagg tgggtcatgg	1020
1021	ttgtctcag ctctgtctg gagatgttg gtaagtccc gcaacgagcg caaccctat	1800
1081	tgtagttgc catcattaag ttgggcactc tag	1114

Figure 66.4 Base Sequences for Bacterium D.

1	ggtaccactc ggcccgaccg aacgcactcg cgcggatgac cggccgacct ccgctacgc	60
61	aatacgtctg ggcgtgtgtc cctggtgtgg gccgccatca cgaagcgtg ctggttcgac	120
121	ggtgtttat gtacccacc actcggatga gatgcgaacg acgtgagtg gctcgggtca	180
181	cccagccca ctgattgacg ccccctcgtc ccgttcggac ggaaccgac tgggttcagt	240
241	ccgatgccct taagtacaac aggtacttc ggtggaatgc gaacgacaat ggggcccgcc	300
301	ggttacacgg gtggccgacg catgactccg ctgatcgggt cggcgttcgg ccgaactga	360
361	ttcgatgcc ttaagtaata acgggtgttc cgatgagatg cgaacgacaa tgaggctatc	420
421	cggttcgtc cgggtggctg atgcatctct tcgacgtct ccatggtgtc ggtctcactc	480
481	tcagtgagtg tgattcgatg cccctaagta ataacgggcg ttacgaggaa ttgcgaacga	540
541	caatgtggct acctggttct cccaggtggt taacgcgtgt tcctcggcg cctggtgggc	600
601	aaacgtcacg ctgattcga gcgtgatcgc atgccctaa gtaataacgg ggcgttcggg	660
661	gaaatgcgaa cgtcgtctg gactgatcgg agtccgatgg gttatgacc tctcgaactc	720
721	tacggtctgg tccgaaggaa tgaggattcc acacctcgg tccgccgtaa agatggaatc	780
781	tgatgttagc cttgatggt ttgtgacatc caactggcca cgacgatac tegtgtgcta	840
841	agggacacat tacgtgtccc cgccaaacca agactgata gtcttggtcg ctgggaacca	900
901	tcccagcaaa ttccggttga tctcggcga gccattgc	939

Figure 66.5 Base Sequences for one Archaeon.

1	agagtttgat cctggctcag agcgaacgct ggcggcaggc ttaacacatg caagtcgaac	60
61	gggcgtagca atacgtcagt ggcagacggg tgagtaacgc gtgggaacgt acctttggt	120
121	tcggaacaac acagggaaac ttgtgctaat accggataag cccttacggg gaaagattta	180
181	tcgccgaaag atcggcccgc gtctgattag ctagtgtgtg aggtaatggc tcaccaaggc	240
241	gacgatcagt agctggtctg agaggatgat cagccacatt gggactgaga cacggcccaa	300
301	actcctacgg gaggcagcag tggggaatat tggacaatgg gcgaaagcct gatccagcca	360
361	tgccgcgtga gtgatgaagg ccttaggggt gtaaagctct tttgtcggg aagataatga	420
421	cggtagcgca agaataagcc ccggctaact tcgtgccagc agccgcggta atacgaaggg	480
481	ggctagcgtt gctcggaatc actggggcgt aagggtgcgt aggcgggttt ctaagtcaga	540
541	ggtgaaagcc tggagctcaa ctccagaact gcctttgata ctggaagtct tgagtatggc	600
601	agaggtgagt ggaactgcga gtgtagaggt gaaattcgta gatattcgca agaacaccag	660
661	tggcgaaggc ggctcactgg gccattactg acgctgaggc acgaaagcgt ggggagcaaa	720
721	caggattaga taccctggta gtccacgccg taaacgatga atgccagccg ttagtgggtt	780
781	tactactag tggcgcagct aacgctttaa gcattccgcc tggggagtac ggtcgaaga	840
841	ttaaaactca aaggaattga cgggggccc cacaagcggg ggagcatgtg gtttaattcg	900
901	acgcaacgcg cagaacctta ccagccctg acatgtccag gaccggtcgc agagacgtga	960
961	ccttctcttc ggagcctgga gcacaggtgc tgcattggtg tcgtcagctc gtgtcgtgag	1020
1021	atgttgggtt aagtcccga acgagcgcga cccccgtct tagttgctac catttagttg	1080
1081	agcactctaa ggagactgcc ggtgataagc cgcgaggaag gtggggatga cgtaagtc	1140
1141	tcatggccct tacgggctgg gctacacacg tgctacaatg gcggtgacaa tgggaagcta	1200
1201	aggggtgacc ctctgcaaat ctcaaaaagc cgtctcagtt cggattgggc tctgcaact	1260
1261	gagcccatga agttggaatc gctagtaatc gtggatcagc atgccaggt gaatacgttc	1320
1321	ccgggccttg tacacaccgc ccgtcacacc atgggagttg gctttactg aagacggtgc	1380
1381	gctaaccagc aatgggggca gccggccagc gtagggtcag cgactgggtg gaagtcgtaa	1440
1441	caaggtagcc gtaggggaac ctgcggctgg atcacctct t	1481