

BT.LABNUT.020.WO - seqlisting
SEQUENCE LISTING

<110> YSOPIA BIOSCIENCES

<120> Méthode et kit de détection de Christensenella minuta

<130> BT.LABNUT.020

<160> 14

<170> BiSSAP 1.3.6

<210> 1

<211> 93006

<212> DNA

<213> Christensenella minuta

<220>

<223> >CP029256.1:1921147-2014152

<400> 1

attttagtg taaatcagcg tgcggacagt ctgtgaacac ttgaaatata ctatgtagtg	60
taagtactaa tagtatgtta cactatgaag agttacagga gcagacaaag gatttcatga	120
tggtactcaa acaaacgcac gagcgcccc caggtgaagg agtttgcttc acgccgagct	180
ggagtaacca tagcagtcca aaagccggga tgtacagcat cgcaaaattc acaatatgga	240
gctataaggt ggatgtggta tagcgtcgga aagtccgaaa atatctgcaa agtgttctgt	300
tccggcataa aaaacgcttt tcttacgaag aacgtgcggc ttatatgggtt atttttgaat	360
tatcctgtgc tttttggtag agtcgctata atagtattat tattgcagat tctcttgaac	420
cgttgagggg cagacattcg gcatatagta ttacagagc catattcgac atatgataag	480
accgcgccgc cattgaattc gatatgaaag tatgttaaaa aggaggccag tatgatacag	540
aaaaaaatat tgaaaccgtt tttatgtctt ttatgtattc tcgctattct tgcattctgcc	600
ggatgtggta tgatggggga gctattgaac gttcttgagg aagaaccgaa acccacgaaa	660
gagctggaat ctacggaaga ttttaactcag ccgagcagag agccgtatac tagacgatat	720
tattctagcg atgtcgagcg ttttgatgtc ccgcttgggg aacgctccag ggagtttttg	780
acaaggatgc ttttgtcatc gtattctttg aattcaagga cattatagaa gcccaataca	840
ctgaagaaaa cgaaacgagg cttctcgagc tttatgagga aattaggtcc ggcctgctgg	900
atgttaaaac ggacgttagc cttgcgaagt atgattatta cttgtttata gatgattttt	960

BT.LABNUT.020.WO - seqlisting

tttcgatact ttggtgtaaa tgtaaataatg atatgatact tacatatcca cttgctatgg	1020
gctaaacttt tatccatttg aaaaactcct ttcgagtaga atgtagatgt tcaggctaca	1080
tgaaaacgag aaaggagttt ttgcccctgt aagctttgtt tcccaccgt atatagaccg	1140
taccggataa aaaggacagt ttccgaaaag ccacccccgc tgtaggatag aactacaacg	1200
ggggtgaaaa tgtgtatgtc aagaaaatac acacaaatca aaggatatta tgaagaaatg	1260
gaacgccagc accaagaagg ctgcagctgt cgggaaatcg gagaaaagtt aggctttaca	1320
aaagaacagg tgaaagaatg cctaagaaga ccaagacgca aagcccaaaa acagaacgcc	1380
agtatcccaa atcggcgtgg tcgaccggct aagcaaatgc cttgcattct cagtgcattg	1440
taaaaagagg tcaggcagct tcggatggaa aatgaattgc tgccgggattt tctgaaaaca	1500
accgaaagga agtgagaacg tctgccaaat atcaggtgat aaaaaatac gcacgaagt	1560
atccaatcat tcgcatgtgt gtattctttg gggatatccg cagcggatac tacagctttc	1620
taaagcggag gatacagcca aaccgggaat ccgcattact ggggcgaatt caagaatgcc	1680
gcggcagtg aagatatatg aatacctacg gctgtcatcg ggtacagatt tggatcaaac	1740
gccagtacgg tgaatactac aattacaaga cgggtgtggcg tgttatgcac aaatacgggc	1800
tgctatctaa gattcgccga aagagattct ttcattgcgg tgagcagatc cgtacctacc	1860
ccaatctatt gaatcggaac ttccacgccg acaagcctaa ccagaaatgg gtaacagaca	1920
tcagttgcat cccaaccagt cagggccccc tacctttcca tcattcggga tttgtttgat	1980
ttaagcattg ccgcttaca aacaagtatc catcagagca ttaagctggg acttgatatg	2040
atacggttgg cgatggaaaa agaaacagtc accgcagagt tgcagctcca cagtgatctt	2100
ttctttgcgt ttgacatctt tgagcgtctt caataccaag ttgatcgatt gctctgtgcc	2160
tgtgcgatgc gctacgatac ttaggtcgta aaggcctcgt atgaccgaca ggtacaccgt	2220
gccttgttct gtgggggtat atgagtgaat tgaatccgga ctatcgggag gcgctctatc	2280
tcacctatct tgaggatatg agatatgcgc aggcggcgga ggtcacggga aagacggtga	2340
agcagattac caacatggta tatcgcgga aagagagctt gcgcaaactg ctggaacggg	2400
aggggatcac aaatgcggag tcatgcggaa cgggtcgcg ataccggcg cgctgttccc	2460
ggctcgttca gcttcaagaa atatgaagac ggcagagtat acccgacga aaaccgatg	2520
gaaatcctct ttaccctga tgatacggag gcatacgcca ctgcggaatg cactgttacc	2580

BT.LABNUT.020.WO - seqlisting

gtgaccggaa taaaatacac aatcacaagc gtcccctacg acatctacat caacgacaag	2640
ctgccgggga cggcgtttga gaatttaggg cttccttccg gcatcaacat agaggtcagc	2700
accggcgcga acttttagttc cgttcccgtg acatgggaca gttcctccta cggcccggac	2760
tcttatgagg agcagatcat taccggcgat ctgcatgttg aaaagagttc atacgcggat	2820
cttctggagc cgacaagcac agtcaaggct actgccagga taaagctcat tgataaccgt	2880
gtctttacgc ccacgcttga gccgcccacc tactccaagc agctctacgg aggcgatttg	2940
tgcttccttg tcttttctga caactacctc tccggcggaa aggccacggt gaacggcgaa	3000
acggttcccc gcacgttcaa gctggacaaa aatcagaaaa tatacggaca ctcattgacg	3060
gcgagccagc tcctgcaggc cgagccgctg cagctgaagg gcatcttcac tcccaacgac	3120
cagaagcggg acaccacggc ggaatgtacc gtcgggtgtga atgtcattcc ccgcagattt	3180
gtcaaacca gttacaacag ggtgcttaac aacacaaaga tcggcatgac ctttgaggag	3240
ctgaacctgt cggagtcgtt cagtttcttc gtgggttagcg acgaaactcc ccccgagag	3300
ctcgagtcgt attctatgaa tgttgtcacc tcgtgggacg cttcaactta tgaccccaat	3360
tcgtatgata tgcagacgat ctacggtgaa gtcgaccgcg ccgaattgga gaagtatttc	3420
accataccag aggatgccaa cctcagggtc gtgatcaagg ttcagctgca gcccgaacca	3480
gccgaaacgg agatcacgca ggcacccgta ttccgctgga aaaacgggtga ttttacgctg	3540
tccgacaaca ccatcttctc ccagcgaagg tttcaggtgg gaacctataa cgcggaagtc	3600
ggcagtcctt ttggcggcgt ggtaaaggct aaggggacgg ataccgtcgt ccccggcaca	3660
ttctcattta agaagggtac gccgctctac tcctcgtctc cgggcgaata cgacatgacg	3720
gtggtgttca cgccgacaga tccgcgcctc cacaagccga cggagaccag catcaaaata	3780
aacgtcatca aaaacaccct caaggatgcc gatgagccgg aaccattac cgataagccg	3840
ctcggcacgc cttttacgga gcttgggctg ccgaaagatg tggctcgtcaa tgccgttgac	3900
ggcgcttggc gctggattga cgtagcatgg gatgcggcgt cctatgacgc ggagtccccg	3960
gattggcaga ccatcaccgg tacgttggtg tttgatgaat atgacgaaag cacctaccag	4020
cagccaggcc ctgtggtaac ggccacgatc agggtaaagc tcacgtccc ggattccgcg	4080
cctaccgtca ccaccggaac cctgccgacg gcttgacgct taacgcggat acaggcgaaa	4140
tcagtggcac gcccactgcg gcgggcactg cggctctttac ggtcaagggtg gtcaacgttt	4200

BT.LABNUT.020.WO - seqlisting

tgggttcgga cacaaaggag ctgtcccttg cgatagtcaa ggccgagcac accgccacct	4260
ttgacggcaa cggtggtatg ccctctgtcg gcagtatgac caccacgaat cagaagctgg	4320
tctctctgcc cgatgcttcc cgcagcaagc acagcttcga cggctggtac accgaaaaga	4380
gcggcggcag cgacaacccg cccgtcaccg attatgcgct gcgctttgaa ataggaggcg	4440
gcagccatat tgccgacgtg cggggaacgt acaacaccta cattgacctg acaaagtacg	4500
ttccgatccg gcgcggctat acctttatcg gctggtacag cgaccgcgat ctgacaaaca	4560
aggtttccgg cgtttatctg acgaacgata tgaccgtata tgcaggctgg cgcgtgactg	4620
caatccccga gaccggtgac ggagccaac tgggtttgtg gagtattacg ctatgtgcgt	4680
ctcttgccgg atgtctcgcg ctgaccacat ggagctcag acggcgcaag ggcgcatcac	4740
gggaaactgc agaaaagtaa tcagcacacc tttgtggcac gggtttgttc cccgtgcca	4800
cattcgctat cttcccagga aaaagacggc tgtccttttg aagaacagcc gtcctgcttt	4860
tactgttgat gtgtatgcac ctggatatca ttcctcaaac aggtacagga gatagccgta	4920
cccatcggac tccatctttg cataaggcac aaagcggagg gacgcactgt tgatgcagta	4980
gcgcacgccg ttgggcgatt ccggatcacc ggtaaataca tgaccgagat gagagtctcc	5040
agcgcgggctt ctgacctccg tgcggcgcat accatggctc aggtcctcca gctccaccac	5100
ggcaggctcc tcaatgggct tggtaaaggc gggccagccg cagccgctct cgaacttgctc	5160
cgtggaggaa aagagcgggt cgccggtaac gatgtccaca tagatgcctt tctcgaactg	5220
gttccagaac tcattgctga agggacgctc cgtgccgctc tcctgggtga cccggtactg	5280
ctccgccgtc agcttgctcc ggacggactc cgccgcgggc ttttggtagt cgcccggatc	5340
gatgcgcagc ttggagaaca gctccatctc cgcttttggg atatggcagt agccgttcgg	5400
attcttctcc agatagtcct ggtggtactc ctcggcggga tagtagtttt tcagcgggcc	5460
gatctccacg aagaacttct cgctgcgtcc ccgctcaatc tcggcgatgc gttccaccgt	5520
ctccttcgcg ctttcgttag tgtagtagac gccggtctgg tactggctcc cgatgtcggt	5580
gccctgccgg ttttctaccg tagggctcgg gacgtagaag taggccagca gcaggcgctc	5640
gagacttatc tgctcgggggt cgtattccac ccgcacggctc tcccgaagc cggtgttccc	5700
cttgagacg gtctgatagt cggcgtccgc ctcgcaggta ccgttggcgt agccgctctc	5760
ggcatccaga acgccgggga tggactgcat cagctgttcc agtccccaaa agcagccgcc	5820

BT.LABNUT.020.WO - seqlisting

tgccagatag atgacat	ttt ccgtggtatc cataa	acatg ctctcctcgc	cggacatatc	5880	
agagggatgc ccggccat	ttt ctttcgattc cgtttt	ctcgc ggcatattct	tatgtgctgc	5940	
ggcgcagccg ctca	gtagca gtgccgcagc	aagcagaagc ggtaata	ctc tccgatacat	6000	
ggtggtttcc tc	cttttctac tacaata	aatt tatggatagg	atatggcagc	cagccatacg	6060
cctttccatc ccatag	tcta agctacaata	aggggagtaa ttgg	tctgac gactc	ctttc	6120
ttgggtctac acgccc	gtac gtgagacagt	cagccatcct cttgt	tcgag cgttc	gtttt	6180
gcaggtagag ccacc	actcg tgcgttcgtg	tcactcagta gatt	gaatag gcaat	gggta	6240
agagatgggc accg	attaca atacatcaat	caggaggaat acttat	gaac gctgtc	ggta	6300
tcgacatttc caaagg	caag tgcattggtt	g ctatcctgcg	tcccttcggt	gaggtggtt	6360
cttcaccttt tgaa	attcag cacaccgctc	atgaactcag acgttt	ggtt gaacgt	ctga	6420
aaagtttggc cgg	tgaacc cgcatgtta	tggagcatac tgg	caattac tatct	gcctg	6480
tcgccaggca tctgc	acgaa gccggcctct	atgtgtccgt tgt	caatgct attct	tgtac	6540
atgactacgg tcaaa	attcc cttagacggg	tcaaaacgga caag	atagat gctgt	taaaa	6600
tcgccagcta tgct	ctaagc cattggcttg	atcttccgca atat	gcgccg gaaga	agacg	6660
ttcgccacat gctta	aaacc tgcgcccgc	cc agtgcaacca	gtacgttaag	cagagtgtta	6720
tgcttaaaaa cagc	ctatc gctttgcttg	accaaactt tccg	agtgtc aacat	gctgt	6780
tctccagccc gccc	cgcaag ggggacggtc	acgaaaaatg gatt	gacttc gtggg	taaat	6840
tttggcattt tgaat	gcgtc aacagccttt	ccaaaaacgt tttt	accag cgctat	caaa	6900
aatggtgcaa aaga	acaggt tacaactttc	tttccactaa ggcc	gctgcc atctac	gatt	6960
tcgcctgcat acaag	tcagt acactgcctc	gaagcacctt tgcc	aaacag cttatt	actc	7020
aagctgtgtc gcag	cttaac tccctatcgg	aaacgctggc tctg	attcgg cagcag	atgc	7080
tttcccttgc ctcc	gcttg ccggaatttc	ctgttgtcat ggct	atgcaa ggggtc	ggca	7140
atgtgttagg acct	caactc atggctgaaa	ttggcgatgt gcg	acgtttc aaccg	taagc	7200
agtcgctgggt tgct	tttgcc ggtatcgacg	caccgccttt ccag	tcgggc gccttt	gaag	7260
cacagagtac cggc	atttc aaacgaggtt	cttcctcact caga	aaagacg cttttt	cagg	7320
tcatggactg cctg	ctcaaa cacgcgccct	ctcatgatgc tgt	attccaa tatct	tgaca	7380
aaaaacgcgg cgag	ggtaag cattattacg	tctacatgat ggc	aggagcc aacaag	tttc	7440

BT.LABNUT.020.WO - seqlisting

tgcgatatcta ctacgcacgg gttaaggagc atctaggcag tttggcggtt cagtagccca	7500
catattcttt ttgcttggct taccagctta tttcagggtg gttttatttg atgttccatt	7560
ttttaccttt cattttttat tcattttcgg cttgactttt ctttgcaggt ctgaggagat	7620
aaattcgctt gtcagcccat atcggcggca agagcctggt cgatgagctt ttgcagcgctc	7680
tccgcctgct ttttttccgt gacggcacct gtgatgggct ctcccacgat gttgccgttg	7740
cgggtcaacca catagggtggg gggataagca aagatgttcg tggtaaactt tccgcctcg	7800
ccgtcgggaag cgaaatacac attctgataa gtcgcgcctt tcttggcgag tacatctttc	7860
gcctcagaaa ttgccgcttt gtcgccgtcc agtgtgaagg tgttgacacc gatgagcgcg	7920
ccgcccttct cagtaagctc cttgttcagc gcatccaact cggcaagctc gcccacgcag	7980
ggattgcagg tggtaaacca aaaattcact acgggtgacgg cgttgccgga gaatagctca	8040
tcgctcttca ccgcgttccc atccaagtct ttaccctcaa atgcaggga cttctgcata	8100
ctgccgtcat cgggcggcgt ggtcatgtcg ctgcccgcag gcatactcat ggttccatcc	8160
atggattgct gtgccgcctc ggggtatttt ttctcaatca tggtcagctt gttttcgatg	8220
tcgcggattt tctccgcttc ttcctgaagc agtttcagct catccgccgt aaactgatcc	8280
ttggcggatt cgattgtact gagcaggaaa tcaccgtagt ttttgccgtc ttcctgcatg	8340
gtcatgccct tgtcggccgc catgaatacc ttttcccaa gcgctgtgtt ctccgagaga	8400
atggcatttt cctgtgccag cagatctttg tgcattggcag ccgcttcctc ggcgttcttc	8460
ggctcattgc tcatcccatc cattttgtcg ccgccctttg cgccgcaggc tgccagagac	8520
agcaccatca gtgcgagaag caacagcgcc agcaatcggc cggcagttatt cattctattc	8580
atccgttttg ttcctccttg ttattgttgt ttttctgcgg ctgttctgcc gcctttgttt	8640
tatctttacc gtttccgaag ccgtagcgga agcacacggc gttggtcgga caggctcgga	8700
cgcacatccc gcagcgaatg cactctgtat ggttgggcgt ctttgtcaca tccacatcca	8760
ttttgcaggc tctggcgcat tttccgcagg agacgcactt gtttttgtcc accttcatct	8820
ggaacaggga caccctgttg aacagcgctt agaacgcgcc cagcgggcag agccacttgc	8880
agaagggacg gtagaatacg atactcagcg caatcaccgc cagcaggatg ctgaacttcc	8940
atgtaaacag gctgcccagc gccgcccga tgccggaatt ggcaagggac agcggaatgg	9000
ccccctccag cacgccctgc gggcagaggt atttgcagaa gaaagggtcg cccatgccca	9060

BT.LABNUT.020.WO - seqlisting

catcgttcac aaggaatgcc ggcagcagca aaaccatcac cagcaaaacg gcgtacttga	9120
ggatatcgag cggcttcagc cttttcgtgg acagcttctt cgtgggaatc ttgtgcagca	9180
gctcctgaaa ccagccgaag ggacacagaa aaccgcagat aaagcgtccc agcaggactc	9240
ccagcaaaat gaggaagcct gtgatataat aggagaagct gaacttggaa gaccctacca	9300
ccgcctgaaa cgccccgatg gggcaagcgc cggaggccgc cgggcaggag tagcagttca	9360
accccggcac acagacggtt ttccctgcgc cctgatacag tccaccctg aggaaattcg	9420
gcaggtgcag gttggtcaat aaagttgccc ccgcctgtat ccagccccgg aagcgggaca	9480
tagtctgtga cacgcccga aacttcttac ccaatgcccc cacactccag acataatttg	9540
attgctttgc tcagcaccgc cgccgcctcg ccgcgccata cgccgaagca cagcatggcg	9600
attcccgcaa ccagcagcaa ggcctgcgcc gcagtctttt ttacatgact caattccatc	9660
accctttcgt tttttctgcc accatcataa cgcgagaaag ttaaaatccc tgttaagaac	9720
gaaaatttaa cgcaaaccctt atctgttttt gctataattt aagaacaaca tgaaaatgaa	9780
gaataaaaag gagggctctc atgcaccttt tagtaattga agatgaacgc gccctgtgcg	9840
agaccatcgt ccgcagcctg cggcggctgg cctacagcgt agattactgc tacgacgggg	9900
agaaggcgct ggagctgatc gccgttgaaa aatacgatct catcctgctg gatctgaacc	9960
tgccggggaa ggacggcatg acggtgctgc gcaccctgcg gcagacagac cgggagacga	10020
gggtgctgat cctctccgcc cgagcgagg tggaggacaa ggtggagggg ctggatgcgg	10080
gcgccaacga ctatctggca aagccctttc acttagccga gctggaggcc cgcatcgcga	10140
gcctgactct gcggcagttc acccagcagg atgtgctggt gacctgcgga gccttgacct	10200
ttgacacgcg ctcccgacc gcttccgtca acgggcagac attgacgctg acccgcaagg	10260
aaacgggcat tctggaatat ctgatggtgc accaggggag gcctgtgagt caggaggagc	10320
tgatggatca tgtctgggac aacagcgtgg acagcttcag caactccatt cgggtacata	10380
tctccgccct gcgcaaaaag ctccgggtcg ccctgggtta cgaccccatc cgcaaccgta	10440
tcggcgaggg ctatctgatg ggaggcgagg agacatgagg aagatatctt tgaaatggcg	10500
catcacctg atgaccgtcc tgcttatcgg catcacctgc gtcgcatga atctgctgct	10560
ctgctcctcc ggtgtgtact atatggacac gatcgagac accctgcagg gcggcggcac	10620
tattattatg aacggtgaag gggcagagag ctttgatccg cagctcataa cgctgacga	10680

BT.LABNUT.020.WO - seqlisting

ggatctgacc atcgttgtca atggagcaca ggggcgtttt cgtacgacca actggtacat	10740
cacggctgtg gtgacactgc tcagcggcat tctggcctat tttgtcagcg ggcgcgcctt	10800
caaacccttg cgcagcttcg cttctcaggt ggagaaggtg cagctgaata atctggcgga	10860
tatgagaacc aatgaggatg ttctgccgga gtttcggcag ctgagtcact cttcaacca	10920
gatgctggag cggctgaaca acgcctttgc cgctcaacgg cagttcaccg gcaacgccgc	10980
ccacgagcta cgcacgccgc tggcgctgat gcaggcgcag ctggatctgt tttccgcgga	11040
gcatcccgat gtgctgccgg agacggcgga atttctctcc ctgctgcagg agcagacgga	11100
gcggctggcg cagatgacaa aaacgtact ggaaatgagc gaccttcaaa cagtagcgcg	11160
taccgaccaa atccagctgg gaccgatgat cgaggagatc ttcgcggatc ttgcgccgct	11220
ggcggaaaaa aacgatatca tgctggagcg aaaggcgac ggcgccatga ccggcaacga	11280
cacgctgatc taccgaatgc ttttcaacct gacggaaaac gccatcaagt acgaccgtcc	11340
cggaggcgca gtgcgcattt ccatatcca ggaggaaaag cgccttctca tccgcatcat	11400
ggataccggt tgcggcatcc cgaaagaata ccggcagagt atcttccagc ctttcttccg	11460
ggtagataag tcccgtagca gggaatacgg cggcgcaggg ctggggctgt cgctagcatg	11520
ggagattgcc aatctccatg gtggttccgt atgggtcgag aagagcacag aggaaggaac	11580
caccattgct gtggaagtcc cagcgtaata aatcaaaact cccattaaa caagtggttt	11640
gatctagcct tataagagct aatcagctat ggcagtttcc ttaaggagac atcgaatagc	11700
gcggtgacca cattttatcc tttggcggcc cctacccaag ggcctctttg tttctatttc	11760
agattgatcg agctttccca gataatctgt cgccaactaa aacgtactgc tctaaaaagg	11820
ctttacacac tggaagagca agtaccgaaa acaaatcatc cttatctttg aaataccgat	11880
aaagggcacc tgttgtaagg ttagcaccgg ccatgatctg gcgcaaggat actccggtaa	11940
aactatattc taagaattcc ttttggcact tttaagggtg tcgccatgtg ttttatcata	12000
ttctgcaatc aatataactt cctccccgta atgttggtat cttgatcttt attgtcaaga	12060
ttttgagtat gaaatgtctc ataatagtgc ctaaaaattt cccacgccc ttatctaaaa	12120
attacacatg caaaagaaaa tagccctttt taaatcgact ctataatttg aattaacagc	12180
ttgtcctcat caaacaattc gtatagatta ttttggagga caaataataa ataatataga	12240
aaaatttaat attgtattgg aaaagctatt gcaaaatatg tcgattattt tcatttgcgt	12300

BT.LABNUT.020.WO - seqlisting

gacagtttaa ataattataa agcgtttata aaatatat	agatagagca taggttggtc	12360
cagaatttac aatagatcta aaaggatcga acatgttgta	gtaaaagggtt attgaggagg	12420
cgatacaaat gtgtacagca ataacgtatt atacaaagga	tcactat	12480
tggtatctgga attttcttat aatgaaacag taacgggttac	acaaaaatat tatccgtttc	12540
attttcgtaa tggaaaagtg ctcaatcatc attatgcaat	gatagggatg gcttatatag	12600
ttgatgactt tccgctttac tacgatgcaa caaatgaaaa	gggtctcagt atggcaggac	12660
tgaacttccc ggataatgcg gactataaag aagtgaagga	aggatacgat aatattgctc	12720
cctttgaatt tattccatgg atactcggtc aatgtgcaag	tgtgagtga gcaagaattc	12780
tcttagaaca gattaacttg gtaaatttga acttttagtga	agagctgccg ctttctccat	12840
tacattggat gatttctgac cagcgagatt ccattgtagt	agaatcaaca aaagatgggt	12900
tgaaagt	cgaaaaccct gtaggagttc tgacaaataa	12960
tggttaatct caataattat atgcatttat cgaaagaacc	ccctgcaaat acatttgctg	13020
ccgaattgga acttgaacag tatagccggg gtatgggggc	gataggcctt cccggagatt	13080
tatcatccgc ttcgagattc gtgaaagcag cgttttacaaa	gatgaactcg gtttccgggtg	13140
attcggaatc ggaaagtatc agccagtttt ttcacattct	tggctcggta gagcagcaac	13200
gaggctgcgt acatcttgggt gaagataaat atgaaataac	aatttattct tcctgctgta	13260
acatggacaa gggaatttat tactatacaa cttatgaaaa	caaccagatc acagcagttg	13320
atatgtataa agaaaatctg gacggaaaca ctataataag	ctatccgctt atgaaagaac	13380
agcagattaa ctatcggaat tactaatacc cttaaacata	agttttgtaa ataatctttg	13440
catagctttt atattattct tttaggtgcg agatagtgggt	atatctaaaa attttcta	13500
attttgaatt tgaacaggct gcctcagaat gaaagtcggg	gcagcctatt tgtgcttgaa	13560
ataggagcat tcctgcgttg cagtaatggc aaataacaag	tgtagaataa gcaggtactg	13620
aattaagagt taaggttatc ttatggcacg gattatgaag	aacagaaaaat gtaaaatagc	13680
cgttgcatg tttttcgtta ttcttttttt ggtgtaccac	tccttcacgc gggacatgat	13740
tgcagcggcg aagactgccc gatttatcac ttcatacaaa	tggcactctg acaaattatc	13800
ggggctttta gtattgctac gacagtggag atat	ttttttttg ttttctttat	13860
ttgaaactat gctttgagca tagagagatt tcattcgtag	atgtgtggtt ctgccacata	13920

BT.LABNUT.020.WO - seqlisting

atcgacataa agccggtata ggcctagccg ggacttcgtc cctgtttttt cataaatcga	13980
cgcaatatat cgctgcaagg tgcgacgca catataaagg gcatccgcca tttcctgcac	14040
actctcttcg gtagaaatca accgctcaaa tacttcatgc tctctctgcg tcagcgaaaa	14100
ggattctgca aatttttgag agtattctcc ccggctttta tttatggatt tatccgcaa	14160
tgtattcttt atcacgttat tcctgcggtt tatatagaca aacattaca cgctgacagc	14220
cataaacaaa accagcgcag agataaccgt tgcaaagcga tcatctgaaa ccagcagcgc	14280
aatcgaaaaa ttagtaatca aaacagcgt gatattatgt gcggtacgcc ccataccggc	14340
ccacagtgcc ggaatcctca tatagcgtga aagctccatg aaactggcgg taaagaagac	14400
gacgaaaaaa ccagaagaca agtagaatat aaataatccg cccaagaatg gaataccgaa	14460
tttaggaaat acgacacaca tgactgacat caacataatg cagtacatta tgataggcat	14520
atatttcctg tttttcaaat caaacagaaa acctgccgta agcccgcttg ctgccagaag	14580
aaggcgcggc cattgtccga tatccgtacc tgccgcgtgt tcaagcgtaa ccgcgttatt	14640
gagcgtacta aaaatacatg ccataagcgc aactaacaga gcgagaaaaa taccggctgt	14700
aagcctgcct gttaccctg ccggagaaac aaccattttt tcccgttcat tctcttgca	14760
agcaacaggt ttcctgcgcg cccgctctgc ctcataaac agcaaggcaa gaatactcaa	14820
aaaagcagaa agcacaatcg cctctgccaa ttccgcgtta attagattgt tattgataaa	14880
ctgaatcagt attccaagcg catacgatat ccctaccaa cgggcaagac aattgttttc	14940
ccctattgca caggcggcca tatcgtagac cttgccgtg aatatacaa gcagcaagaa	15000
taaaatgatt ccgaatatca acgttgtaaa gtaagagacg cactgctgga tcacaaagat	15060
acatacgact gatgtcatta ctacgataaa caggaaaatg attcggtatg ttttttgat	15120
caagcgggcc agaaatggat aaacgaaaa accggctgcg cttactcca atatgtaatt	15180
ttgtgcgtta atagcctctg acggctttgc caaaagagaa accatatcga catacaaata	15240
ttccgcgccc aaaaatacaa aagtaaaaat agccatcatc agtacggcgg tcagcgacgc	15300
tggttttccc agttccgttt ttgtttcatt ccacatactt cgattccttg ttaatatcat	15360
atctacatca tttattatac attgaaattc agttgattcc taccgtctga aaacagtttg	15420
gcgctgttgt gccacatact tttgatagtt tggcgctcat gtggcctacc atctcatcat	15480
acgaaaagca ataataaggg aaagcatttt ttaagatatt caaacgacaa aaccaatatt	15540

BT.LABNUT.020.WO - seqlisting

ttaggaggga	aaaatgaaac	agtgcgataa	tggtcatttc	tatgacgaag	caagatttga	15600
ttcctgtcca	tattgtcagg	aaggcgcagg	agtagggaaa	acggtagctg	cgggcgctat	15660
cggaaaaacg	gtagccgcag	tacccggata	cggcacagga	gaggctgata	gcggaaaaac	15720
ggtagggata	atccagaaaa	aaatcggcat	cgatccggcg	gtcggctttc	tgatctgcat	15780
caaaggcccg	catcgcggcg	aagatttcaa	gctatgcgct	gggagaaact	ttattggcag	15840
ggcttctgct	atggacgtgt	cgctgacaga	tgacgacacg	gtttcccgtg	aaagccatgc	15900
gcttgtgtca	tacgacgcga	agcataaccg	ttttacgctt	tctcccggtc	aggggcgtgg	15960
gatcacctac	tgcaacgacg	agcaggttga	agtagccaaa	cctctccatg	catacgatat	16020
tatagaagtt	ggaaaaagcc	gcctgctgtt	cctgccgcta	tgcggtgaaa	atttccgttg	16080
ggacgacgaa	gagcagaatg	aggattgata	aatggaaaat	ataattgcat	ggctgaatac	16140
gcctctgacg	gaggacggct	cttttcggct	atggatgctt	gtcgcggcat	gcgctctcgc	16200
cgttatcatc	cttttagctt	tcctaaacag	gaagcacaga	cagaaaaaaaa	caaaaagaat	16260
agaacggaaa	acggcttctg	ttacggagaa	gccaaaggta	aagcccaatc	ttgagattgc	16320
taatcttcag	gggcttggaa	aacgggagga	gcaacaggac	gctttcggtg	caagtctgtt	16380
gaaaaattat	gaggaaaacg	ggctgcttgc	ggtgctatgc	gatggtatgg	gggggatggc	16440
cgaaggcggc	atgattgccg	ggtatgttgt	gtctgagcta	ttgcgtatat	tcccatggca	16500
agattgtagc	gaaccggaag	agaaaatcaa	caggataagt	tcccatgttt	atcgtcagtt	16560
ccgcggacat	ggaggtagca	cgctcgtcgc	ggcgttggtg	aaagggtgga	ccttgtcttt	16620
ctggtgcgtg	ggtgacagcg	accttttttt	gctgcgcgaa	gaaaagctct	acgcactgaa	16680
tatgagacag	gaatataaga	acgatctttt	aatccgtgca	ttagaaggag	ctttcccgcc	16740
agaagaggca	tttatagatc	cacaggctgc	ggcgctttcc	gaatatattg	ggaaggaaac	16800
catagtgtgt	gaacataacc	gcatgccgtt	gccgcttagg	ccggaagaca	cgctgctgct	16860
ttgttcggac	ggcgtaagcg	atacgtgac	attgacgcag	gttcgggaag	cgatggctct	16920
ttcgtccgaa	gaatgttgca	aaaagctgga	aagggatatt	ctttcggcag	atatcccaaa	16980
tcaagataat	tatacggtag	ttgccatcag	gtatcacgga	aaaataacgg	aggagtataa	17040
agatggaaac	gaaaaagaaa	atatcgacta	aaaaaattat	ggcaatcgcc	ttgttctgcg	17100
ttttcgcgat	aagctgtgta	ttgtgcggaa	tatctgctgc	cagcagcatg	ggcatgacac	17160

BT.LABNUT.020.WO - seqlisting

ctgctcaagc	gcgtaatggc	gtggcctatg	tgccagcaggt	attatatgac	gtttccggtg	17220
gccctgttgc	ggctggaagc	ggaacatgct	gggctgtcgg	taaaccggga	gagcccgtgg	17280
aatatTTTTgt	aacaaacggg	catgtgggtgc	agtatgcgta	tatcgttccc	aagcaagatc	17340
cctcgtatag	cggaaggtg	acggtagttt	attccgggtgc	cgagaatgat	tttgtagatg	17400
cgcaggTTTT	atattattcc	ggcccggagg	aaaaggatat	cgctattttg	aaagttccaa	17460
gcccgcagag	caaacgcctc	ccgcttccca	tcagaccgtc	tgatactgtg	cagccgggag	17520
aaacagctta	tgctctggga	tttccgggtg	tatcggatac	actggcagag	aatatccgct	17580
atgatatcga	cgacgttacc	ataacagacg	gtgttatcag	taagcgcgcg	tcggtttcgg	17640
gaacgggcta	cgaagcgttc	cagatgaacg	tagacatcaa	tccgggcaat	tccggtggac	17700
ctctgggtgga	cgctgacggc	aatgtgattg	gtgtaaacac	gtcggggctc	gttactcaga	17760
tcgggtacgga	ggagcaatcg	gtaaatatca	acactagcgt	aaactacgcc	agcgttgccg	17820
atcagcttat	ccgtattctg	gacgaggaac	gtatcgaata	cacgctgatg	ggtgaaaaaa	17880
actggatgtt	gtataccttt	gtcgttaattg	gcgggtgtaac	gcttatcctc	ggaattgtat	17940
ttctgggttat	ggacagaaaa	aaaacgtcgg	ttctgtcagc	ggcggatacc	gagggaagtt	18000
ttgttgccgg	aaaaccggca	aaaaacagcc	cgtcaggcaa	aaaaccgctg	ctacgcggcg	18060
tcactgggaa	atatgccgga	cagagcttcg	atctctccaa	aggaaagggt	acgcttggac	18120
gcgatccaaa	cctttgtaat	attgtgttcg	ataagagtac	gccgggggatc	agcgggaatc	18180
actgccaagt	ttcctatgat	gcagccgggg	attatTTTTct	gttgatggat	aacggatcct	18240
cctacggaac	gtttcttgga	aatggaaaga	aactgcctgc	atccgtcgct	gaaaagctgg	18300
caacgggaga	tacgttctat	ctgtgtaaca	atgccataa	atttattgtt	gcaaaggagt	18360
agaaaatggc	agcatattac	ttggaaaatg	ggaaaataca	ggaggcatgc	gctggatatg	18420
cctcccgcg	agacgcggaa	atatatcatc	ttagtgccaa	cggagaaatt	acaacaaaag	18480
agattgtacc	ggatctgaaa	cctggcgaag	gtctgctgat	gtgtactgaa	ggTTTTtatg	18540
tggagtcgct	ggaagtacaa	gtagacttcc	tgaaagctgc	ggatgcggag	cattggctta	18600
aatatatggc	cctgcgcat	atcgaacgag	cgagatatat	tgatgacagg	ctttgggtgt	18660
tggcagaaat	gatggaggaa	aaaatatgaa	tctggaaaaa	gtatgttacg	gctgtttccg	18720
ggaaaaagag	ccgggagtct	gcccatactg	cggatatgac	gatacagagg	aacaaccgtt	18780

BT.LABNUT.020.WO - seqlisting

ttagcgctg ccgccgggga caattttaaa cggacggtat atggcgggaa aggtgctggg	18840
agtaggcggt ttcgggatta cttatcttgg gtacgacctg acgctggaaa ttaaggtagc	18900
aatcaaagaa tatatgccgt cagggatggc gacgaggtat aaagacggat atacggttac	18960
actcaccggg cgcgtggaaa aggaatatgc ggcaggaatg gaacgctttt tggatgaagc	19020
acgtattctg gccaaacttc aaaatttgcc taacatcgta tcggtacaaa attatttcaa	19080
ggaaaataat actgcgattt tcgtaatgga atatatcgag ggaatgagcc ttaaagaata	19140
tgttgacagag catggaggca gtatttccta tactgaggcg cttgcaatcc tgctccctgt	19200
catggaggcc ctgtgcgaag ttcactccct gaatctgatg caccgggata ttagcccgga	19260
taatattctac attacagcat caggagaaaag cagattgctt gatttcggcg cggcacggtt	19320
ttccatgggt gacaacaaaa gcgtatctgt tatcttaaaa catggatatg cgccggagga	19380
gcaatattcc agccacggaa atcagggggc gtggacggat atctacgcga tgggagctac	19440
gctttaccga tgtgtaactg gaatagtgcc gccggactca atcgagcgca ttcacaacga	19500
tacgatcaaa aagccctccg agttgggcat cagcttgctt acatcaatgg aaaatgcaat	19560
attgaaggca ctctccgtca aagcagagga taggtatgct aatatgcgtg cgttttattga	19620
tgcgctgtcc ggtaaaaaag cggtatcggg aacggaacgc gtaacggcag gcgtaacgca	19680
acgtgcctcg acgatagctc ctgcggacgg tagaagcgac ttttgggatt ttatgaaaac	19740
aaatccgttg atacgttgga tgattgtagg agctgccgcg gctatttttag tattttgcgtt	19800
gattttccct gcggcgggag tatacaatgg gaagaacacg cctataacct ctaacggtgg	19860
aacgaatgcc cctgccgcta cacaggaatt ggtcgtgcca agcacagagg gcagcgcccc	19920
ggtgacaaca ccggaaacgg acgctccggc tatggagatg acaacccatg atattactgg	19980
ttatggcgct gaaatctccg tcccggctga ctggacggaa gatccggaaa gctgggcttt	20040
cacgagcccc gattcgcgta tggctcttgg cgttgagcta tacttctatc agccctatat	20100
ggcttgttat tccataaacg acgtcgagaa caatgtagaa acgatcgag cgtagggcatc	20160
agaggaaatg gggacaacag gatatgaaat caaaacggcg gggccgcaac aaataggaga	20220
cgtgcctgcc taccagatcg acctccgcgc aaaaagcaa acaggcggag agattgacgt	20280
ggtactcctt tttgctgaaa cgcaaaatgg ttttggatta tatgatatca tgggagcttg	20340
tacggcagat gatgaagaag cgtacgcagc gcttcgcgga tatatggata ctttcatgat	20400

BT.LABNUT.020.WO - seqlisting

tacaggccct gtcgatacga cgttcagggtt gtattcaaac caagagctgg gcttcaaatt	20460
tctgtatagc gcagattata tacaggaaga accggctatt gttaatgtga aattcgaatg	20520
gccggttata tcgtgcgtcg ctctatatcc ttttgcagga gatgaaacac aatttgtaga	20580
gggtggaaaat gtttctacaa ttgcggcgac tgcacaagaa gcgagtaatt tcttttataa	20640
caccacata aacttgggag cggcgttgaa cgagccatat atagatacat ggggcggcgt	20700
tgaatggaca atgtgggaag gaacattaca atcttcttcc gttgcattcg gtgcagcaga	20760
gatcaatggg cagatatatg tcgttgccag cagggttcag gaatcaaag tagagacagc	20820
aaatagtgtc agacgtgatg caatgtcttc cctgcgtccg gtttgaccgg acgcaaggga	20880
cggaaaggag ctatgatatg gcagtgggtca tcaaacaac ggtaaattgc ccgcggcgta	20940
tggcggttta tgcgattttt gatacattag ataaactaaa tggatattat gatcaggaac	21000
ttgtgggaga tatcaaagcg caaataaacg tatttgataa cttgagttag tttgcttttg	21060
cggtagcga acagggggat gcctctatca tacatatttc catactctac cctgcgccgg	21120
aattgacga ggaaggacag cgacgcaccc tcgtcttctt gcgggatagt attattcagc	21180
atattgagaa tgaactcaac accacagcca gagaataaaa atcataaggc agatgtggtt	21240
gtccgctgtt tcggataaac aaacatggag gaaacgaaa tgaacggaaa agataagtgc	21300
aggattttta aggaaatacg gcaaaaaata gcagatgaga acgaaatcga atatgtaacg	21360
agggattgta aatttcaggg tgaatgtaga ggcacatgtc cgcgttgtag agcggaagta	21420
cgatatttgg aagaacaact tgaacggcgt aaaaagttgg gaaaacgtgt cgccatagcc	21480
gcactggcga caggactggt attgggcagt atcggctgta ccgaaagtga ctctcggttt	21540
caaagaggct gcgcgcccgt agaaagttat gatgatgaag aatggacgtc gcttgaggga	21600
gaagttcctg cggacagctt gataaatgaa caaacgaat aaaaaaacgg tttttccaac	21660
gattgctttg gagcgtcatc ggatgacaac agatggtatt ggtgttacga cgcttggtgc	21720
ggcctacggc tgtctactcc gatgtcagta ttgtctgaat ccgcattcgc ggcagcaaga	21780
aacgaatcaa tgcgaatata cgccggaaaa actgttgaat gaggtgaagc aggataatct	21840
gtattttttg gcaacaggcg gcggtattac gtttgggggt ggagaaccgt tgctttaccc	21900
ggagtttatc aagatgttcc gcacactcat gcctgccgga tggaaactaa atatagagac	21960
ttccctttat gccccggcag aagctgttat taccgcggcg caggtagcgg atagtatgat	22020

BT.LABNUT.020.WO - seqlisting

tatagacata aaggacatgg acaatagaat ctacgaacgc tataaccgggc agaatgccga	22080
agtaatgaag aggaatcttg ccatacttcg gaatacgaat gatattgggaa gcgtccgtat	22140
ccgtgtcccc ctgattccta aatataatac ggaacacgat caaaaaaata gcgcatatat	22200
acttcaaaag atgggggttct ccaacttaga atttttccgg tatgtcataa agcaaccggg	22260
aaggctaaat gcagaataaa tgaacatacc gaatcaatgc agaatcaaat gattcaaaga	22320
ttactttacg taggtttccg ttttatctgt gatgaagtct gggctttata cagctcggac	22380
aacggcaggc tgagtattgg tattgagccg gtggtgttgg ggaagtattt gctggtggga	22440
tacttgcatg gcatagagtc gaagcggcgc atcgagcagg agatacaggt aaatatggcc	22500
tatcgttgac ttctggggct ggattcagat gagcgggtgc cggatcattc aacgatttca	22560
taaaacagat gcagcccgt taatggaaca aatctgtttt gtcgcctgct tgagcatatc	22620
ttgcggcaat gcatagaaaa aggattgggt gatggaaaga tcactctgcc ccactccgcc	22680
catgcaaaag cggatgcgtc atttaaagt aatgtcaaag tattggtgga acgtaaaacc	22740
atcgattaca taaaacggtt ggatcgatac gaagaagcgg agaatatcag aaatgtcggg	22800
agttatcaag ccccagcgcg taccgcacgg gaaatggaaa ccagcattgg tgaagaaaac	22860
aatcaatata atatgaccga cccggacgcg ggaatgctga gacatccggg gaaacctttg	22920
gggatacatt acctgcgtca ccaaagtgtg gacgcggcac atgggatcgt ggtggacgtg	22980
gcggtgacgg caggaaatgt aaacgatttg gaaccgtacc ttgagcgtgt ggaatatatg	23040
tgtaaccaca tcggattaaa tattcaggac acgggagctg acacgagtta tggaactagc	23100
ctgatctatc acgaaatgaa gcgcatggga atcaggctgc acacacccaa atcaacagac	23160
ggtgagacat acaaggcaga gctaaaacgt gaacattttc gatacgaatg tgaagagaat	23220
gattactttg ttgcccata agccggatat tgaaattgaa gagtctggag cgagagtgt	23280
acaatatctg caaggtctat cgggcgatcc gcaaagattg ttgagattgc gtgatactgg	23340
agcaatgcgt aagcagtagc caacatagcc ggagcatccg ggtaaatatc tttgaagaag	23400
cggtagtca gtaacggaag acagacgaca cgcctgccc taaacgagtt ttagatttaa	23460
gacagatatg gtgcgaggga aattttgtgg tgcaggagtt gatacacagg ttaaagtgcc	23520
tgacaaggcg aggtaaaggaa gcggcagaag accattgcct cctatccgct actgccttga	23580
acatcaaacg catgataagg tatctgggat aactcctatg tcattatttt ttgctttgat	23640

BT.LABNUT.020.WO - seqlisting

tttctaagta tcatcacttc gcctgagaaa aaagaaatag agaaaaaggc caatggctat	23700
gataaagatg tgggatttct acctgcggta cacagaagaa tgtgtggaag taccggacag	23760
gatcgtggag gcgatgtatg ggcacaagcg tcaggaggaa tccggcgaac ggtatatctg	23820
ccgttatcgc gcaaaaaagt gtatcaagct ttaggggagg tctaaaagaa tgtatttgcg	23880
ctaattgatgt ttgataagta tacaaattca agctgtgaat cgggagaaag ctaaagcatg	23940
gtcaaaagaa aaaatacaaa aaagagaaaa aatcagcctc attaaggggt aaatagtcca	24000
gaaaacaaca agacgtttac caatattaca aatagaagat tgaacgcaag taaaatattt	24060
gtcatattga agctcttgaa atttacgttt agacattgta ttataaagaa gtaaaaattg	24120
tttttagaag cggattatat tccgcttttt tgtaaaaaga attctgtgcg gcaagaggca	24180
tcagcaggta ccattataat tcattcacgc taaaaattt gctgtaaaaa tagataacaa	24240
gtatagatta ttagaaaaaa gcattgcaaa gctaagtgggt ttctttcata tgggggctaa	24300
ttagttggta aaaaagaaac caactttgca caggtagacg gttttttatt tgtgaggtaa	24360
aggaggcctc atgggaaaga aaattcggcg ctttttgtgg agtagcttgg taggcatatt	24420
aatcttatgt attgctatat ttacttggat aactttctat atggtcaatg aaaatgacag	24480
gacgattagt gatatagga aaatttatat gtccgaaatg ggcaagcaaa tctcgttgca	24540
tttttccact gtaattgatc tgtaccagtc caagctgaaa ggcgttgat ggagcaatat	24600
gcgcaatgat ataggcgcg cgaaactgcg agagaatttg gctgccagtg cccaaagcct	24660
tggattcagt tatcttgcc tttatgctga tgacggcagc tacgaagcta tttatgggaa	24720
cccatacaga tagacgaaga aagtgccctt atggatgcgc taagcgaga cgtgcaaaag	24780
gtaacagaag gcacgaacca gtcaggcgat gatcttcttt tactgggaac ggctgtttct	24840
tttcccatgg aaaatggtga aaatagcact gcgcttggtg caggtatacc catacagact	24900
cttatagata tactctcgct cgatatcggg gaaaccctg tttattctca tatcatccgc	24960
aatgacggga catatgtaat aaaaaatgcc gatgcaacag aagaagattc cgattcgtat	25020
ttcgcccgtg tgctcaatta cggtcatttc ggcaatggta cccctgagga agaagtacag	25080
aagatctcag aagcgataga agcgggggag aaatattcca tggttgacaga gatcaaagat	25140
gaaatccgca atacacattt taccctcgct ggatattccg actggtattt ggtatcagtt	25200
cttccttatg aattgctgca tgaacctata tctcatctgc ttgatcaacg tatttttact	25260

BT.LABNUT.020.WO - seqlisting

gccatcagtg gctgtgtcat cattttatcg gtaatgcttt taatatatta taagtttttc	25320
cgaatgtccc agcgacagat aaagctttta caagagacac ggagcgtgca	25380
aatagagcca aaagtacatt tttttcaagt atgagccatg atatgcgaac gccgatgaac	25440
gccattatgg gaatgacagc tatagcttcg acacatcttg acaaccggat acaattgcag	25500
gactgcttga aaaaattgcc ctgtctagca agcatctgct ggggttgatc aatgatgtgt	25560
tagatatgtc gaagattgag agcggcaaga tgatgctgaa tgtggatata ctttctctgc	25620
gtgaagtgat ggataatatt acaaatatag tgcagtccca gatcaaggca aagaaacaga	25680
tattcgatat ttttattaaa aacatacaga ctgaacatgt atactgcgac ggcacgcgac	25740
tgacccaggt gcttttaaac atactttcca atgcaatcaa gtttacgccg gagagaggaa	25800
ctattcatgt agcattgaca caagaggatt cgccgttagg agaattctat gtgcgcaacc	25860
attttgggggt gagagacact ggaatcggta tgtcgctga atttcaaaag aatattttcg	25920
attctttcgc gcgtgaggat accaagcgcg tacagaaagt cgaaggaacg ggtcttgga	25980
tggcgattac caagcatatt gtcgacgcga tgaaaggagc gatagaatta aaaagcgaag	26040
taaataaagg cacggaattc cacattattht tggatatgga aaggaatacg gaaaaagaag	26100
aagatatgct tctctcggct tggaatgtgc tgggtggtaga cgatgacgag cagctttgcc	26160
acagtgccgc ttcttcgtta aaaaagattg gcgtgaagggt ggattatgcc ttagacggcg	26220
agactgccgt tgaaatagcg gcgacgcacc ataaagagaa acagggttgc cagattgtat	26280
tactggactg gaaaatgccg ggaatggatg ggattgtgac tgcttacgat tggaatgaaa	26340
tcgaggaaga agcgcgcaag gctggagtca acggtttcct ttccaagccg ctattttaat	26400
ctacactttt ctacgggctc aggcctttta taaagactac cctgctggaa tcaaagccgc	26460
tggagaaaag gattaatttc atcggtatgc tcggcgacac aacggccacg ggctttgtgc	26520
ttgcggttat gatgtccaac tcaggcagcg cgtgggataa cgcaagaaa tatatcgagg	26580
gcggtgcgca cggcggaaaa ggcagtgaag cgcataaggc cgccgttgtc ggcgatacgg	26640
taggcgatcc tttcaaggat acgcccggct cgtcccttaa tattctgatt aagctgatgt	26700
ccatggtggc ggtcgttttt acggcgggtta tcgtaaatta cggtatacta caataaattc	26760
gaccttcaga gtattaaata tattataaac aatatattct taaaaaata catataaat	26820
atagcacttt tgcaatctta aaccgcaaag gtgctttttg tatgtccttt tatagggcac	26880

BT.LABNUT.020.WO - seqlisting

gagcacctcc atttctccat tttgatcggg cgttttcaaa caagcgacaa aatggaggtt	26940
actatgaaaa aagtgaatct aaggaggttt tatccatctc tctatacgaa agatacttat	27000
gtctttctac cggatgatgt agttactgct ttatgggaag aaacaaaaag agaaagggcg	27060
ggatatgcaa aaatacggta tcaccgcgca tactattctc ttgaccggga ggatgggatt	27120
gagcgatttg ccctgcactc ccctatgctg ccggaagaga tcatgcagca aaaggaactg	27180
cgcgaaatttc tttattctat cattatggaa ttaccggaaa agcagctgaa aaggttctac	27240
gcctactatg tactgagaat gaaactgaaa gatattgcgc ggattgaagg aaccgatgcc	27300
gctgctgtat tacgggtctgt tcaaaagtca gaaaaaacga tccgcaaaaa aataaaaaat	27360
tttttagaag attgagacaa aaaacgggtgt gtttttctac tgaataataa gggagtattt	27420
ttcttccgat aaaaacgaaa tatccaatcg tctgaatacg ttagctgcat agcgagcaaa	27480
agaacgcaca cgcgaggact gcctgcggga atattcccgt caataagata acatcaaagg	27540
cacgagcggg aatgtcaacg tccggaaact tccgtggctg ggagtatgcc atgacctata	27600
cagcctatca tgatacttgc gcgtagtcga gatcaagttc cagagcgtgc ccctgccgtt	27660
ggcaggggtg tgagattcca atgtggcgct gcccgcgccg gttcagacgg ttgcccgctc	27720
gttatgggaa gtagtgtcga atgataacgg aatagaatat ggaaagtggg ggcagatttt	27780
ctgatctgaa tatcagcacg aatagtctgc cccaacttct gaatttatca aacctctttg	27840
ttgtaatttg gaaatatgag ttttttttgc atggagattg tttcggacta taataagagc	27900
atccgcaaaa tctttgaaag gaggtgccta tttgtacgaa acaaagttgc catgtgagac	27960
ctgcaaagaa aagtcaagcc ggaaatgaat aaaaaatgaa aggtaaaaaa tggaacatca	28020
aataaaacca ccctgaaata agctggtaag ccaagcaaaa agaatatgtg ggctactgaa	28080
ccgcaaaact gcctagatgc tccttaacct gtgcgtagta gatacgcagg aacttgttgg	28140
ctcctgccat catgtagacg taataatgct taccctcgcc gcgttttttg tcaagatatt	28200
ggaatacagc atcatgagag ggcgctgttt tgagcaggca gtccatgacc tgaaaaagcg	28260
tctttctgag tgaggaagaa cctcgttttg aaatgccggt actctgtgct tcaaaggcgc	28320
cggactggaa aggcggtgcg tcgataccgg caaaagcaac cagcgactgc ttacggttga	28380
aacgtcgcac atcgccaatt tcagccatga gttgaggtcc taacacattg ccgaccctt	28440
gcatagccat gacaacagga aattccggca agccggaggc aagggaagc atctgctgcc	28500

BT.LABNUT.020.WO - seqlisting

gaatcagagc cagcgtttcc gatagggagt taagctgcga cacagcttga gtaataagct	28560
gtttggcaaa ggtgcttcga ggcagtgtac tgacttgtat gcaggcgaaa tcgtagatgg	28620
cagcggcctt agtggaaaga aagttgtaac ctgttctttt gcaccatttt tgatagcgct	28680
gggtaaaaac gtttttggaa aggctgttga cgcattcaaa atgccaaaat ttaccacga	28740
agtcaatcca ttttctgtga ccgtccccct tgcggggcgg gctggagaac agcatgttga	28800
cactcggaaa ggttttggta agcaaagcga tgaggctgtt ttttaagcata acactctgct	28860
taacgtactg gttgcactgg cgggcgcagg ttttaagcat gtggcgaacg tcttcttccg	28920
gcgcatattg cggaagatca agccaatggc ttagagcata gctggcgatt ttaacagcat	28980
ctatcttgtc cgttttgacc cgtctaaggg aattttgacc gtagtcatgt acaagaatag	29040
cattgacaac ggacacatag aggccggctt cgtgcagatg cctggcgaca ggcagatagt	29100
aattgccagt atgctccata acaatgcggg tttcacctgc caaacttttc agacgttcaa	29160
ccaaacgtct gagttcatga gcggtgtgct gaatttcaaa aggtgaagca accacctcac	29220
cgaagggacg caggatagca accatgcact tgcccttgga aatgtcgata ccgacagcgt	29280
tcataagtat tcctcctgat tgatgtattg taatcgggtgc ccatctctta cccattgcct	29340
attcaatcta ctgagtgaca cgaacgcacg agtgggtggct ctacctgcaa aacgaacgct	29400
gcaacaagag gatggctgac tgtctcacgt acgggcgtgt agaccaaga aaggagtcgt	29460
cagaccaatt actcccctta ttgtagctta gactatggga tggaaaggcg tatggctggc	29520
tgccatatcc tatccataaa ttattgtagt agagaaagga gagtgcattt atggaaaatc	29580
tttcctctcg cgtctatacg gtcaaagaag tagcaaaaat gttaaatatg aagccgagga	29640
ccgcttatgc cttttgtgaa tccacagata aatttcaagt agaacgtgta gggcaaagag	29700
ggcttcgtat caacaaagca tcatttgacg catggatgcc cagcggaacc caatcggcta	29760
atacgaaaga ggtatagaaa atggcaattt caataaaaca aagaggtaaa aaatatacgt	29820
tcacattcta ttataaagac gaaaatggaa taaacaggca acaatatgaa gcatatagca	29880
acctggataa agccgatgaa cgagcaaaga tgattgaatt tctgaaatgg aagaatgatg	29940
ataaaacgct gctacagtta gtaaattgagt ataatgcgaa taaagcagga acaaaaacaa	30000
agcattattc taaaaatgat aatatgtgca aaacattctc agagtttatt tgggcatggg	30060
cacagcggca tgcgcataaa gtacgaatga agccaagttc gtacgcaggt ttgaagcgga	30120

BT.LABNUT.020.WO - seqlisting

atattaggaa tcacatcgag ccatatttcg gaaaaatgat tgtgagcaag attacaccgg	30180
aaacaataga agattttttc tttcaattaa gccaaaagaa atgcaggggc gcaaagagtt	30240
ataaaaagag tgaagatcaa atacctactc ttaaaggaag ttcgctaataa aaagtattta	30300
atattatccg gcctgctttt cgggatgcgg aaacatgggg atatacgaag cgaaatccaa	30360
taagcagtga tcaagccccg gcatataagt atgcaaaacg aaaattctgg aaaaaagaac	30420
agggtgcagca tgcttttgaa aaaattaatg atcccgtttt gcatttagct gtacatcttg	30480
catttatgtg caatatgcga ccgggcgaag ttgtgggaac ggatgctgaa ggtattgatt	30540
tggcaaataa atacttccaa atcagtcaag cgcttcagcg tgttgaaaca gaagcccttg	30600
aagagcttgc tcaagatgat attatccgta ttttcccgaa aaagaaaccg gacgcaaaga	30660
ctgtgatgat cctaaaaaag ccaaagacag aaaaaagtga gcgcaaagga ttcctaaaca	30720
tgaaactgtg tgaggaaatc gagaaacgtt tgcaacagat cgagcaagat aagcgatatt	30780
acggcaagga ttatcatgac tatggcttgc tcctttgttt cccaaacggt gatccgattg	30840
aaccccggaac aatggataag cgatttaaga agtggcaaaa aagtgatggg gtgagtgcgg	30900
aagatgtaat tgatatgcaa ggattacgaa aatctgcaac aatgtataaa ttgaggttaa	30960
caaactatga tgtgcagggt gtcggaggcg aaggcggaca gacatcggct acaacgattc	31020
ttgaccacta tgacgaagtt ctcgaagaag atagaagaaa gttatctata caagtggaaa	31080
atgattttta tgggcggctg aaacaaaaac gggtaacaga ggactttgac ttgcgaaggt	31140
tatttaagga gttagtcaa cagccggatt tagcaaaaaa actttacgct tgtttaccg	31200
tggtgcagaa agcgacctga attgcactca aaatttatga gcaaaattta tgagcaaata	31260
atttttgctc ataaataata gatattggca gaacaaaaat agtagaaaaa ctgaagacct	31320
cgataaagat ggtaatggaa aagcggtttc ctacaaactc gtaaaaaacc gctctaccaa	31380
aggatttctt tggagctgat ggcgggactc gaaccgcga cctatacctt accaaggtat	31440
tgcgctaccg cctgtgccac atcagcatta tgaaattttt aggtgaaacg caaatcctta	31500
ccaaggatgt gctctacccc tgagccacat cagcataata aaactgtgac ttaaataatta	31560
tatgatactc cggcagatth ttcaatccct ttcaacggaa gaaattttcg cttgcccctg	31620
ggggtaaaaa catgtaccaa actattaaaa aagcataaat actttcacat tttgtttttc	31680
ttacgctata atgaaattat tctgaattaa ttttatgaaa ccctcccgtt tcataagaaa	31740

BT.LABNUT.020.WO - seqlisting

taaagggaaa gaaggatttt acaatgattt gtaacaactg taagcaaagc tacgacgaca	31800
atttgaacgc atgtccttat tgcggcgag ccaaggcgggt tactgataac atacgccgc	31860
agcaatacgg acagggtccc cgcaggcat accaggctaa ttctccggca aagggtacgg	31920
cgacgggcag cctggctctg ggtatcatcg ccatcgcgat aggcgttttc gtcccgtcg	31980
cgggcctcat tctcggcatt attgcgctta ccctggggaa taaggccaag tgcattgtcc	32040
cggcggacca aagaggatg gcaacggcgg gctttatctg cggtatcatc ggcatcgtaa	32100
tcgcggtcat cttttggatc ataaatgcag ttgtggcggc ttccatgttg tcttacttat	32160
actattgatc ggagtgtaaa aatatcatga gaaataaacg cggaattttt gctttactct	32220
tactgttcat gatattgctt gcagccggat gcgcgtccag caccgctccg acggttgaaa	32280
taggcggcga ggtcctcccc tccttatatt ccgtgggtggg agaaaagaaa attaccggca	32340
catcgaagaa tatcagcacg ggacttgagg aggtagagct tacctatcag ggcgtatcaa	32400
tcgacgagct caattcctat atcgagtctc tgatttcgga cggttacctg gttacgcagg	32460
aagcgtcggc aacaggaagc ggccagggct accagattgg aaaggaagca tccacagagg	32520
gaaacatcat tcttatcagc ttttactttg aagacggcgg gtctacggtc atcaattatg	32580
ctgtaggcgc gggcaccatt acgccggaaa ccagaggcta acatttcccg ctgaaaacag	32640
tctcccaaaa ccgcaccgag gcgctgccgc ggtgcggttt ctatttcggc actgcgatta	32700
tttttgtttg gtccggccct tttttccgta taataaaaga aacaaatcct ttgggaagga	32760
gcctccatga ttttacatta cgagaaagaa cgcgtttatg cgaaagatga aaacggaatg	32820
ctgctggccg agatcacatt cccggagaca gcggacggat gggcggatat agaccatacc	32880
tttgtcgatc cttccctgcg tgggcagggc ttagccgata aactcgtacg cgccgccctc	32940
cagcagatcg cagaggccgg aaaacggccc gtcgccacat gcccttatgc ggtcaattgg	33000
tttgaacagc atccggagga attaaaagat ttgttcggcc cataaaaagg cttttaaatg	33060
ggtgcttttg aacagcgcgg ccataaccaa acattttttt tgaaaatttt aaaaaatact	33120
tgcaggattt tgaattcggg tgtagaatac atataataag aagatcatac aaggaatcag	33180
taaaaaatgg tttgaggaac tgatttcagg gtatgataat agtaaagaca gatggacttc	33240
ggcggatggg ggtccggaag aacgtctgaa tcgaaaaaga aagggcgtga taccaatgta	33300
cgattccgaa tgcgtgacgt tgggcacgca cgcacagtcc cagaagtagg ctttaaggtc	33360

BT.LABNUT.020.WO - seqlisting

gcacgaaagg gatcacggaa caggattttt gaattggcag ttgacggttt gaaaatatcc	33420
gtgacagtgg agcaaggttc ccggagatgt tgtgaagaaa gcggaggga aaaccggatt	33480
ccacggcaga gttgtaaaga aagctcagtg gaggcgccga aaaagcaaac gtatcgcggg	33540
cgttgtagcc gcaagggagt ctggaacaat tccagaccaa atgtgtgtgg tgccgaaggt	33600
gtagcttggt cgcaagaaat gcggtaccgg agcaaccggt tggtagctaa atacaaatac	33660
tgcgtatcaa tgtggcggtc ggcagaaacc gatgggggat gcatgaccg aaggtatagg	33720
cagagcgag gcgcacaaaa gtaaaaaata atgtaaatat ggcaatgggg tttccgaatg	33780
gaaaccccat tttttcggtt tacgataccg cttcccgatt cgcctcttcc tcgttctttt	33840
cgcgcgaaat cctgatgtgg agtttgcgct ccagatcttt tattttcccg tgctcacgcg	33900
gcgtaatcag cgtatatgct tttccatcct tgcccgcgcg tccggttcgc ccgatacgg	33960
gtacgtaata atccggtttg tccggcacgt cataattgat gaccagatcg atcttatcga	34020
tatcgattcc ccgcgccgcg acatccgttg cgatcagcac ccttggtttt ctttgcgga	34080
aggtattcat gatcgatcc cgttcctttt gccgcatatc gccgtgcagg caggccgacg	34140
cgagtcccct atggaaaagc tctttttgca gctctttcac cttacgcttg gtgttacaaa	34200
agacaagcgt aagccgggga gcgcaccggc cgatcagccc gcataaccga tttgatttcc	34260
gtttggtctg catataggcc tgcgagaccg tttcgaccgg gcggttctgt ccccgatct	34320
taacacggac cgggtctttc tggaactgcc ccgcaatcgc cgtgatttcc ttgttcatcg	34380
ttgccgagaa cagcatggtc tggcgctgct ccggcacagc ggacaaaatt tctttcatat	34440
ctccgagaaa tccgtaatcc agcatttcgt cggcttcgtc catcacgacc gtgcgcacat	34500
ttttcagctt cagcaccttg cggttgataa ggtctttcag acgcccgggc gtaccgacaa	34560
cgatctgcgc gcctgtccgc agggctttga tctggattcc cgcaggctgt ccgccgtaaa	34620
cgctcacaat cttaccctt ttcaggtggg ccgaaagttc agccgcaacc ttagcgtct	34680
gcatcgcaag ctgcgtgtc gggcacagga tcaatgcctg caccttcctg ttgggcggaa	34740
aaatattctc caggatcggg atcataaacg ccgccgtctt ccctgttccc gtttgcgcaa	34800
ggccgatcag atcctttttt tccaatagcg ccggaagcgt ctgctcctga atcggcgtcg	34860
gttttgtagta ccctatccgg taaagcgttt tgttcatttc ttttgataac tgcatcgaaa	34920
aactcaaata actacctctt tcccactccg gcaaaaaata agactttgcc tttcaaagca	34980

BT.LABNUT.020.WO - seqlisting

aagtcttttc atcaatctac tttgtgtacg tctgaagtat agcacacttt cttccatttg	35040
taaaatggaa gaaagcttca gctgtccctc cttaccatat tctgcaaaac aggactgctt	35100
ataacttatt ttgcatattg gctcagatat caaggaccac tttctgaacc cgatcttgat	35160
tttgctcgat ataccggaac gcatccgcca tcctgtccag gccaaacttt tgtgtaatca	35220
gtcttttcag gcatattttc ccctgcttta ccaggtcaat cgattccata taatcttcct	35280
ctacatacat caaagtcccc aaaagcgtat attcacggtc ctgcacattt gccagattga	35340
tatgcggcat cccagcaaaa acacctgcga ccacaatcgg gatccctttc ggcgagagga	35400
aaagcgcttg attaagtgcg gcttcatttg ccgtgcattc atagaccgcg tctatcccat	35460
cttttccaaa cactttttct atttcttcgg caagctcctg ccgggatata ttcacagtat	35520
gcccgatccc gcattgtttt gcaagatcaa gccggaaatc cgagatgtcg gtaatcatta	35580
ccttcctggc tcccattcct tttacgcttt gcgcaaccag attgccaatc gttcccgcgc	35640
cgaggacaag gatatTTTTT cttccactt cccgaaacgc cttttttaca gcatgtaccg	35700
caaccgcaag cggttctatc aacgttcctt cgtcaaaacc gacgttatcc ggcaggcggt	35760
aaaataaatc ctcatccgcg acataatagt ccgaagctcc ccccgggcat tggcagccaa	35820
gcacttccag cttttcacia atattgtatc tgcctgcccc gcagggtttg caggctccgc	35880
ataccctctg cggccgtaaa acaaccgggt cgcctttttt cagctttgta ttttcgcctg	35940
aaatttcttc tataattccg gtacactcat gtcctaacac aatcgggaag tccataaacg	36000
gatgctctcc gtaataggca tggatatcag agccgcatat accgatggct ttgaccgcga	36060
ttttagcctg tcccggacct atcgcaggct gttcgacttc gcggcattca aaatttttaa	36120
tcccggttaa ttctacctgt cgcacttttc gcctccctta aaaatcaacc actactttaa	36180
tagaatcctt tttgccggca accgctttgt cgaaagcttc ttgtgccttt tcaaacggaa	36240
actgatgtgt catgaccgga aggatatTTT cccgcccata atggatcagt gtcacgctt	36300
tctcaaactg gttcacataa cgaatcactg ttttataagt aaggccgcgc ataaccgcac	36360
tcgacatcgg cataggggtc ccgtcgtcga tcaaaaggcc cagtaatgtt atcgtcgccc	36420
cgtccgcac atatcctgat atatcataga atgtcttctc gggtccaacc gactcaaacg	36480
catatcgcg cccataacca tccgttaact cccggatttt ttccgcaaca tccccatccc	36540
tgggattgat ggtatctgtc gctcccattt tcttggccat ttcaagctta aacggctcca	36600

BT.LABNUT.020.WO - seqlisting

tgctgactgc aataatgggt cggcgcccaa ttgttttaag cgcatgtatg gtcattcattc	36660
caatgggttcc gcagccgaca acgaccgcgc tgtccgcgta tccgatcccg ctgttgggtca	36720
cgccctgcag cccgacgggt aacggttcga ttaacgcacc ttcctgatag gacatatcct	36780
ccggcatttc atataccaaa aattcggggc acgctacata ctgcacatg catccatccc	36840
aaggcggcgt acccataaaa tacatattat ggcaaaaatt ataccggccc gcgcggcatt	36900
cgctgcagcg catacacggt tttcccgggt ccacaatcac ccggtcgccc acggacaggc	36960
ggctgcatcc ttccccggcc ttgacaacct cacctgcgca ttcattgccc agaatcaacg	37020
gttttccgtt catggcataa tcgccgattt ttccatccgt ataaaaatgc aaatccgagc	37080
cgcatatccc catggattta atgcgcacca atactttctc ctcttttacg tcgggcatcg	37140
gcaaagcccc tattttccatc ttccgcgggt ctgtcagcac ccatgctctc attgtttcca	37200
ttgatatcca cctcattatt taaagtttgt ttttccgcgc ttccttatca ctctgtcag	37260
gccgccattt ctttttggc caatttcct ctccgcacat tatccagcag gaggccaga	37320
agaataatcg ctccctttgc aacatcgcg aggaatggat ttacgttctg gagagtcac	37380
cagtttgaga tgacctgat aatcaatgcc cctgcaaccg cgccaataat atagccgttg	37440
ccccccgaaa ggctcgtccc gccgataaca accgccgca ttgctgcccag ctcaaggcct	37500
tctccgaggg ttgctggcgc agacataagt ttggagctca aaataacaga actgattgcc	37560
gaagtaatcc ccgcaatcac gtaggcaaca attgtagtct ttgcaatact gattccggag	37620
taccacgccc ctttcgcatt gctgccaaca gccagaatgc gcctgccaat cgtaaaccgc	37680
ttcatcagga ggattgctac tacggttacc gccgcaaata tccagatcgg cgtcgggaacc	37740
tccccagct tgcccaagcc gaagaaatca aagccttccg ccacaattgg gaattggcgt	37800
cccgatgtga tgtagagtgc aattccatac gtaaccagct gcatcgccag cgtgaccata	37860
aagggcggaa aattcaactt tgaaatcatc aggccgttgc aggtccaat cgcaatcccc	37920
gttgctacgg caatcaatat gacgacagga atagataggc ccgcggaaaa gcataacgcg	37980
ctgataattc ctataatcgt aacttgtccg ccgacagaaa ggtcaatacc tcccgtagcg	38040
ataacaaagg tcattccaat cgccagaatt ccggtagtag ctgtccgctg caaaacgctg	38100
accatattcg ttggagaggc gaaaagcggc gttactatcg tgactacgag gcacagtaca	38160
accaatatca aaataattga aaactcggat gccaatatct tttttacttt ttctctcgtc	38220

BT.LABNUT.020.WO - seqlisting

at ttgtttgt cctaccttac atatagattt gcattttttgc tttgtctatt tctcttgcca	38280
tgaacgtccc cgcaatcttt ccctctttca gtatgattat tttatccgac atgttgagaa	38340
cctcttctat ttctgacgac ataacgacga ctcccactcc ttgttccacg agggcattca	38400
tcagttcgta taccgcaact ttggcgccta catctatgcc tcgcgtaggc tcgtcgaata	38460
cgacgatctt tgattggggc gctatccact ttgcgagtac aaccttttgc tggttcccc	38520
ccgaaaggct actgaccgga tattcgaccc cggcgcactt aatttgcagg gctgcaacca	38580
tttcatccat aatgcctttt acttttttcc ggttaatcca tcccagtctg gaaacatcct	38640
ttagggacgc gaggattata ttatctaaaa tgctcatttc cgtaacgagc ccctcttccg	38700
cccggttttc cggaaccagc cctatttttc tggcaattgc ctccgacggc tgccgggcgg	38760
taattttttt gctatcaagg taaatatctc ctgccacgcg gggatgcccc ttgccaaaaa	38820
cgccgaacaa cgccttggct gtttcgggtct ttccggcccc caaaagtcct gcgatgcca	38880
ggattttctc ccggtgtacc gaaaatgaaa tgtcctccag cagcccttct acggagatat	38940
gctcaaaacg cagtaattct tccccctgg ggaatacctt tttcggatat ttattcttca	39000
gcttccgccc tgcgataagt tctgccagtt tttcttcgtc cagttccgcc gaccgtatt	39060
gcccgatatt ctgcccattc cgaaatacga tgatctcatc cgtcacttcg aggacttctt	39120
ggagcttatg ggaaatatat ataacgatat atccgaggtc ttttagccgc ttgacagcac	39180
gaataacggc ttttccgtct ttatccgtaa gcgcagacgt cggttcatcc aaaataacca	39240
ccttgagtt ctgtgagagc gcacgcacga tcgcgaccag ctgctgatgg gcaaccttca	39300
ggctctccag gcgcgtatgt gtgtcgatat cgatttccat catgtgcagt aattctttcg	39360
cttgtttatg aatttttttc caattgatat agcctgcttt gctgcccgtt aaatgagaga	39420
taaagatat ttccgcgacg cttaaatacgg ggagcatatt gagctcctga tatacaatcc	39480
ctaccccaaa atgctgtgcg tccagcgggg atgaaatttt taccggtgtt ccatctgcaa	39540
gaatctttcc tttatcggca atgtaggctc cgttgataat cttcattgtg gtagactttc	39600
ccgcaccgtt ttcgccggct aagccataaa ccattccgct gtgcagccgg aaactgatat	39660
catccagagc tttaataccc ccaaagcttt tacagatccc ttttagctcc aggctttcct	39720
gtatcatcta tattcaccac tttctcccga tatccgtctt gtttccctgt tcccatcagg	39780
gcggcgatat acgcaccgcc gccccgcttg caaaattgct tcaattcata aagctattcc	39840

BT.LABNUT.020.WO - seqlisting

agatatcttc cgtaccagac cacagctctg tctccgtttt tacatcatac agcgcccaca	39900
gggtcgggtc gcttgtatcc ggcctgtaa tgaccgggt ttccataggg atcacttcgc	39960
cgtccagtgt ctctccttta gaaacgatct caagacatcc tttcgccgct actgtcgcca	40020
gcgcaagcgg actctgttcc acgcacacat ccatcaaacc ggaattcagg gcgtctacgc	40080
cgctgggatc acaatcgatt ccagaccagt agatatgatt ctctcgccg cttttcccg	40140
tttttccgtt ttggcgcagg gcggaaatca cgccggggtc catagagtca cagtgcgtaa	40200
taacaccgaa cagatccgga ttcgccgtta aaacgtcatt taacgacttt tccgccgtat	40260
cgcttgccca gtcgcatgga ctttcaatca gctgcattcc cgtttcggcc gctacctcgt	40320
cgattccatc ctgccggaga taggcgtcac tctgcgtcat cgttccctgc atgacggcta	40380
ccttcggatt ttcaacgccc aattcttttg ctttatcagc cagccactgc gccgcactcg	40440
cacctgtggc cacattatcg ctcgatacga ccgcaaaatt gaggttgtcg cctgaaat	40500
ctttattaaa accgatgcac tgtattcccg catttaccgc tttttgtact gccggagcca	40560
gcgcttcgct gtctgctgca tggatcgcg taatgtcaca gcccatattg ataaaatcat	40620
cgatttggct ggattgttcg tttgcatttc catcgcagtt gactaacgta acttcgcac	40680
ctgcggcttc cattaatttc aaaaaatact cggctgcgct tacaatatag gtggacgata	40740
ggtcgctgac cgtaaatccg acttttagtc catcgccttt gcccgccagc tctgcggcaa	40800
aaccattgcc tgccgccgcg ccgtcccctt cggaaacctg ggagattct tctgccgggg	40860
ctgccgcgct ttgttcagcg gtttcgaccg gctccgcaga tgtctgcgct gccggagctg	40920
cacacgcggc aagcattgct gccgccagta aaagtgcac cacaaccatt gataat	40980
tcatgttctc ctctgatata attggattat tttcttttgc cccaatgagg caaactta	41040
ttttttcgat agattccgga cattcctgct ttttcaaagc ccgccgtacc gagatacgcc	41100
ggctctccgat caactatgcg gtcacatagg tgtgaaattc tagccattag aaaaaggcac	41160
aaaaaaaggc gcctttttcca gcgccgataa ataaaaatac aaaaaaacg attggtta	41220
aaactacact tttttcacca acgttccgta tattctgatt tcataaagct ttgatacagg	41280
gtagtataaa tagccgatata cctaaacagg atcgttttaa agttaatccc ctttgctt	41340
actttaacac agtccaatat acatgtcaat attcttttag cggtccatt ctctctcgc	41400
gctggcctgc tgcccacaaa attgcataat ctgcgccttt ttgccatttt ttccgctttt	41460

BT.LABNUT.020.WO - seqlisting

tggatcttcc	ggtaaaat	tatgccctga	ggttttgtct	tcaaaggtat	cttctgtggg	41520
caagggtttg	acaaagatga	ttatctataa	tataatcctg	tgtgtagtag	aagccaatcg	41580
aaaacattcc	tgtatctttg	catgtaaagg	ataaattttt	atcctgcagc	aaatctttat	41640
ttgtttttca	tcttttttcg	atagagaccg	gattttgccg	ggcttttggt	ttatcatgct	41700
ttcttttgag	gattcatgcc	gggggcgcgg	taatacgcat	gcattttata	cagaacatac	41760
atattacaaa	aggagattct	aatttattat	gattagcaaa	ccatattcaa	cagatttcag	41820
gctcgacgga	aaaattgcac	tgatcacagg	tgccgcttcg	ggcatcggtc	tcgctatcgc	41880
ccagctcttt	tcggaacagg	gcgctactgt	atgtcttctc	gatcggaata	taaaaagcgc	41940
gcttggagct	tcggccaaca	tccccggttc	ttatgcttac	ggtgtggata	ttgccgattc	42000
ggcatccatc	gaagaggcga	tcagccaaat	tctaaaagcc	cacgggagaa	tcgacattct	42060
cgtaaacagc	gcggggatcg	gtacggtcga	atgggcgaag	gatttcccgg	aagaagattg	42120
gcgcagcgta	atcgatataa	acctgaccgg	gaccttcctg	atatctcagc	gggtaggccg	42180
tgaaatgatt	gccatgcagg	agggcggaaa	aattatttgc	ctcgcttctc	aggcaggaat	42240
tgttgccatc	gacaagcatg	tcgcttacag	tgccagcaag	gcaggcatca	tctctatggt	42300
gaaatccctt	ggctatgaat	ggggaaaata	tggcattcag	gtgaatgcga	tctctccac	42360
tgctacggaa	acgccaatca	tcgtcggata	ttgggatgtc	ggcaaggttc	atgaagatgc	42420
gatcgccaat	actcccgccg	ggcgcttttg	caagcccatg	gaagttgcgc	tggcagccct	42480
gttcctggcc	tgcggcgctt	ccaatatgat	tacgggctcc	aatctcgtaa	tcgacggcgg	42540
ttataccatt	cattaacggt	accgttcctc	ctcccaggcg	tgttctgtgc	cgctctgtccg	42600
gaatacgctt	gggatagaat	atccaaacct	attgcattta	tcttcttaca	atccgctgtc	42660
caatagtatg	cgcagtgtca	ggaggtctct	atgacaaaaa	taccgaata	ccggaataa	42720
tattccgaac	tgaagggga	aatcaagcgt	ggcacctata	gcccagggat	gtttctgccc	42780
accgaaacgg	agttggaaaa	catgttcggc	gtaagcagaa	ctaccatacg	aaaagcaatc	42840
agccttttgg	tactcgaagg	attcatttcc	gtacagcagg	ggcgcggaac	ggaagttcag	42900
gaagtctcca	catcgcaaag	gctgaaccag	atcacttctt	tttcggaaac	cttgtctcaa	42960
aagggtata	tcgtaactac	gcgcggat	tacctcgaac	atattcccgc	gcctgcgttt	43020
gtccgcgaag	cgcttgatt	ggagaaagat	tgacaggttc	atcatttgca	aagagtgcaa	43080

BT.LABNUT.020.WO - seqlisting

tgtgccgatg ggcgccccgat ttgtattatg gagaattata tcagtgccca tataatcccc	43140
gatttcgaga ttcgcaacag caattttgtc agcctgtacg agcttttgga acatgaatat	43200
aatctcgttc tgcgtgaggc tgttgaacgt attaccgcca taggcgcctc cttcacagaa	43260
tctcaaatac ttcttgttcc ttcaggcacc ccactcttat tcagcaagcg tatcacctac	43320
tgtgataaag gaccttttga atatgtaatt aacaaagtgc ttgcagagca gtatgaatat	43380
gcaattcatc tttcggaag ggcttaggac ctaattttcc agcttggtcc cagaaaaata	43440
tgattcgata aaaaaaccgc cccagccaaa tggctggggc ggtttttacc tataaatgat	43500
tgatttattt tccttccgcg aggttcttgt agtattcgta ccgttccttc gcttcctctt	43560
cggattttgc aaacagcttg tccgccattt ccgggaagag tttcttcaag gatttatagc	43620
gggtctcgct catgatgaaa tcctggaagc ttgccgttgc cggtttgga tgcagcgtga	43680
acggattctt accctcttcc ttgagcgccg ggttgtaacg gtacagctgc cagtagcctg	43740
cttccaccgc gcgcttttct tcgtgttgtg atttgcccat gttgataccg tggttaatgc	43800
acggagcata cgcatgatg agggacggac ccggataggc ctccgcttcc tgcacgcct	43860
tcaaaagctg gccctggttc gcgcccattg caacgcttgc aacatagaca tagccatagg	43920
tcatagcgat cgcgccaagg tctttcttct tgaccttctt tccggatgct gcaaacttcg	43980
cgatggaacc ggtaggcgtc gccttacttg cctggccgcc cgtgttgga taaacttccg	44040
tatcgagcac gagcacgttc acgtcttcgc cggaagcgag cacgtggtcg aggccgccgt	44100
agccgatatc atatgcccag ccgtcgccgc cgaagatcca gacggacttc ttaatgaaca	44160
ggcttttctg gtccaatatc ttcttgaggc tatcgactc cgccgcaacc ttcccaaggg	44220
ccgcctcgag gttcgagaa gcggcctttg actcgtcgcc cttgtctgct gcttcaagcc	44280
atgctttcat tgcttcaca acttccgcgt ctttctcacc gggcgcgtcg atcgagcct	44340
gcacctgctc tttgagggcg ttcttgccgg ccgtgaaggc aaggttcata ccatagccga	44400
actccgcgtt gtcttcaaac agcgagtttg cccaagccgg gcctttgccc gcgtcgttta	44460
ccgtataggg gcacgtcgga gcgctgccgc cgtagatgga cgagcagcct gtcgcgttcg	44520
caatcgtcat cctgtcgcca aagagctggg taacgagttt tacatacggc gtttcgccgc	44580
agcctgcaca tgcgcccag aactcgaaca gcggctttag gaactggctt tccggaaccg	44640
tattcttttt gatctcgatc ttcggttcgg gcagcgccgc tgcaaagtcc cagttctctt	44700

BT.LABNUT.020.WO - seqlisting

tctggagttt ttcctgctct gcaaggggct tcataataag ggccttttcc tttgcggggc	44760
aaatatccgc gcagttgccg cagcccgtac agtcgagcgt agaaacctgc atacgatagt	44820
tgtagccggc cttgccgcgt gcgggcttcg tcgcatagtt cgccggcgcg ttcttcatgt	44880
cttcgtctgt cgcgaggaac gggcggattg ccgcgtgcgg gcatacatac gagcactggt	44940
tacacataat gcagttatca atctgccact ccggaacctt gaccgcaatg ccgcgcttct	45000
cgaatttcgt cgttcccgtc ggaacgaagc cgcgcggatc gaaggcggaa accggaagct	45060
cgtcgccctt ctgcacaagg atcggatgga tcacgtcgca gtaatatattg tcgtcgggaa	45120
gcgtcaggca gggagcgccc tgcgtcgtgg ccgccagct ttccggatag tttacttcct	45180
caacagccat gcctgcgtcg accgctttgt agttcatggt tacaatctcg tcgcccttct	45240
tgccgtacgt tttcttgatt gcctgcttca tgtactcgat ggcgtcagcc tccgggatga	45300
tgcccgcat cttgaagaat gcagactgca taaccatggt ggtcctgccg ccgaggccga	45360
tctcgccgc gatcttgatt gcgtcgatat tataaaattt cagtttcttc ttggcgatta	45420
cgttcttcat gaccgccgga agctccgttt ccatctcttc gagggaccag ggggagttga	45480
ggaggaacgt gccgccttcc ttgattcctt cgagcacgtc ataacggatg acgtaggacg	45540
gattgtggca tgcaaccata tcgggatgcg taatgaggta tgccgactgg atcggggatt	45600
taccgaaacg caggtgcgaa atcgtgatgc cgcccactt cttggagtcg taggagaagt	45660
aaccctgcgc atacatatcc gtatggtcgc cgatgatctt gatagagttc ttgtttgcgc	45720
ctaccgtacc gtcggaaccg aggccgtaga atttcgcgt aaagaggccg tgcggcgaag	45780
aatcgatcat gtctttcact tcgagggacg ttcccgtcac atcgtctgtg ataccgaccg	45840
tgaagtgggt cttcggcgta tcctgcttca tattgtcata aaccgctttc accatggaag	45900
gcgtatattc tttggagcca aggccatagc ggcccgcata aaccttgata cccgccggc	45960
ctgcttcaaa gagcgccgtt acgacgtctt catacagcgg ttcgccaaga gaaccgggtt	46020
ctttggtcct gtcgaggacg gtcacttttt cagccgaagc cggaatcgca tccacaaacg	46080
cgcttgcatc ccacggccta tacaggcgga ctttaatgac accgagtttt tcgccctgcg	46140
cgttgaggta gttgacggct tcttccgtta cgtcgcagcc gctgcccattg ataacgacaa	46200
cgtgcttcgc atccggtgcg ccgacataat caaacaggtg atactggcgg ccgaacactt	46260
tcgcaaattc gttcatcgtt tcctgaacga ttgccggcgt cgccacgtaa tacttgtttg	46320

BT.LABNUT.020.WO - seqlisting

cagcttccct gttctggaag tagatatccg ggttctgcgc cgtaccctgc tgggtgcggat	46380
gatccggggtt catgccacgt gcgcggaact cctcgatcgc tttccagtca accatctcgg	46440
ccagtttgtc atagtcgagg agctcgattt tggaaacttc gtgggacgtc ctgaagccat	46500
cgaagaagtg cacgaacgga accttcgctt tcagcgtgga aagatgggcc accgcagcca	46560
tatccatcgt ttcctgtacg gaagcggcag ccagcatggc aaaaccggtc tggcgcgcag	46620
ccattacgtc ggcatggtcg ccgaagatgg aaagcgcgtg tgccgcaagc gcccttgcgg	46680
aaacgtgaaa caccgcagga aggagttccc cggagatttt atacatattc ggaatcatca	46740
gcagcaggcc ctgggacgcc gtaaacgtgg acgtaagagc gcccgcagcg agcgaaccgt	46800
ggacagcgcc ggacgcgccg ctttcggact gcagctcgga aattttcatc gtctgtccga	46860
agatattctt tcttcctgcc gcggccatt cgtcgcagga ctccgccatc ggcgaggaag	46920
gagtgatcgg gtaaatcgcg ccgacgtcgg aaaatgcata ggcgacgtgc gcggcagcgg	46980
tattaccgtc gattgtttgt tttgccattc ttagtgacct cctaatttta taattcattt	47040
aaaaacattc gcaacattat aattatagta ttacgggcac taaaaagtca aggcagagcg	47100
ccgctatata cccctttttt gtaatttttg cagcatgctc cgggggcgta taaattcatc	47160
cgtatgtacg tacatttttt attttagaga aagaggcgtt ttcttttcca aaaccatgcc	47220
ttgtactcca tcctttcctg tgctatactt aaggccacaa caaaaaatgt gcagagtaga	47280
ttttgcgcgt caagtgtatc aggatgggat gtcgcctgat aacgaaaagg cccttgcctt	47340
gcggtgcaaa gtcgcgtccg ctgctcacia aagaagattc tttgaagcgg cttttgcttt	47400
tttgcatttt ggccgacagc ctttcttttg tagaagcgtt gccattttta cgaaaggag	47460
gttattttta tgtccaaaat cagtcccaa accctgcgcc tcgtgtattg cgcaaccttt	47520
atcgccattg ccgtttagt cggcagtttt ctgtcttttt acctgacgga aagtattaaa	47580
ttcaaccttg cgcccgtagt tatcatgctg accggcgcgg tgctcggccc catttggggc	47640
gcggcggccg gcggcgtgac cgacctgctg tccttcctca tcggcacggc cgcaaaaccc	47700
ggtccttatt ttcccggctt tacggtgacg atgatccttt acggcctgat atccggcctc	47760
atcttttacc ggaaaaagcg cccgtccgag ataccgtcga ttgcaaaaat ttccctcggc	47820
acggcgctta cgagacgggt ttgttcgctg ctcatcaatt ctttctggaa ttacctgctg	47880
tacgggccga cctacctcgt ggtgctcact acgcgcctgc cctccacata cattatgtgc	47940

BT.LABNUT.020.WO - seqlisting

gcagtgata	tcgtcctgat	gtgcatcttg	ctgaaaaaca	aacaaaagat	gttcaaatcc	48000
ctttacgtgc	ccgttgccgc	gtaagcagga	aaaaagccgc	acatccgccg	ctttttttgt	48060
ttcctttttt	ggcagaggat	ttcgaattaa	aacgtgaaaa	gccggttcct	gagaaccggc	48120
ttttcaaaaa	ataataaaaag	ggtgggggatt	gacatatcct	agtctcctaa	gatacagtct	48180
cattttatac	tacatccggc	aggattgcaa	gtgataatth	gttaataatt	tatgaaccct	48240
gccttttcac	ttttcccgcg	ctttcccaag	cctcctgagc	acataattcg	gcagcgcgaa	48300
gcagccccgg	tgaagctccg	tattgtaata	atccgtatgg	aggccaagcg	cgttccacgc	48360
cgccgcatcg	aacacaagcg	gatcgcggtc	ctgggacgcg	aaccgaaca	gccagtggcc	48420
ggacgcgtag	gtgggcatat	ggaactgata	gacccggcac	acgggaaata	cggaggaaag	48480
ttttttatgc	gcgcgctcca	tctcgaccgc	gtcgccttca	taataggagc	tttcgtgctg	48540
gttgaccatt	acgccgcctg	gcgcgagcag	cctcgcgcag	tcttcataaa	acgcctgcga	48600
aaaaagccct	tccccacgc	cgaccgggtc	cgtggaatcg	atcaggatca	ggtcgtatth	48660
ttcctgcgcc	tcccgcaaaa	aggcaatccc	gtcgcagaag	tgaagagaaa	cgcgccgggtc	48720
cccagccttc	gacgcagtct	gcggaaggta	ttcgcggcac	agggtccacca	ccatccggtc	48780
gatctccacc	atatcgatat	ggcggacgcc	cggatagcgt	acaagctcgc	gcaccgcgcc	48840
cccgtcgccc	ccaccaatga	taagcacgtt	ttttgcatct	gcgttcaccg	ccatcggcag	48900
gtgcaccagc	atttcatggt	aatgaattc	atcccgcctg	gtcagcatga	tgaaccgctc	48960
gagcgtaaaa	aaacgtccgt	attcgtagga	atcgtaaaaa	tcgatctttt	ggaactcact	49020
tctcgatatc	atgaaatgat	cctttattht	aatgccaaat	ttcgcattht	ccgtaaaata	49080
ttcataaaac	cagtcattth	tcaaaattht	tgccataaaa	aatctccttc	atctcccgtc	49140
ccaggttccg	ctcgatgcgc	gcgcgcgtct	tctccttcag	gtccgccgcg	tcgagattga	49200
acaaataatt	gtcaagatca	tatttcttca	aaacctgctc	cgtgtggaac	acgcgttcct	49260
catacaggth	gacgtcgtat	gtgtcatatt	tttcgaggat	atgcctgggg	ataaaatcct	49320
ggatggacat	aatatcgtga	tccatgaaca	ccttgccctc	gttttccgtg	cgggtgaatc	49380
cacgtacgcg	gtagtccata	gtaataatat	ccgaatcaaa	gcttgtgatt	agcttctcga	49440
gcgttttcag	cggcgatatt	tccccgcaag	tggaacgctc	gatatccgcg	cgaaaggctc	49500
aaaccccgth	ctgcggatgg	ctttccggat	aagtatgcac	cgtcagggtg	cttttatcaa	49560

BT.LABNUT.020.WO - seqlisting

gatgtcccac caggctcgcg ggcacctctt cctccgcaat cagcatcgtg acagacgcgc	49620
cctgcgggttc gtaatcctgt tccgcgatgt tcagaacctg tgcgccgatg cggcgcgccca	49680
cgtctgtcag gatctccgtc agacggcgcg cgttatagca ttcgtcgata tattcgatat	49740
aactttgccg gtcctctttt gtgttggcat aacaaatadc gtataaattg aagctcaatg	49800
tttttgtgag attattgaat ccgtataatt tcagtttttg caaacattc ctccgcacca	49860
gaactgtttt atttatagtt tcattatata tcaacgaacg ggaaatggga accatttatc	49920
ccggcatggg gatcacactt ttgtcactct ttcgtcgtgc ttccttatgc aggacgtata	49980
tttgcctttc ccggtcatct attataaata gtaccggata agaattgtatt cgcagcccaa	50040
ggaataacctg ataaatcaag attggtctgc caatacagct aaataaggag gaacaacatg	50100
aagtttcaac tcgcaacaga ttacgcaata cgcacacctg gctacctcta tgaaaacaac	50160
aacaggcttt ccaccgcgac ccacctgtcc gaaaagcttg ggatcacata cctgtatttc	50220
atgaagctga cgggcgtatt gaagcatgcc ggactgatcc agtctgtcca gggctgcaac	50280
ggcggctacc agctcgcaa aaatgcggag gacgcgacgc tttatgatgt ggtgaagggtg	50340
atcgagggcg gtattaagat caaccgctgc ctcgaggaag accgtttttg cagcagggac	50400
gcggcggaat ggtgcaccgt gcacacctt ttccaggaac ttcaggacgg tttcatcgag	50460
cggcttgaca gcgtccgcat ccgcgacctg tgccaaaaac cggaaaagca gactgccgcc	50520
cgtgaatacg cggccctcga ggtttaacgg caggcatcca ttataacgac aggaggaaca	50580
ttgtacctat gaaaaaaata cggcgactaa ccacggcttt gctcgtgatt attttcctgt	50640
tctccataac cgcgacggcg atggcggacg gtgcgcccag tcttgttgat ttaccagtta	50700
caggcttatt gaacacagaa tatacggaac caacagatac ggaagatacg gaaacaacaa	50760
cagatgcgga agaagacatg ggtgccgggt ctgaagcgcc cgggtgcggca gaggaatcca	50820
cgacggaggg cgcgtccgca ccggacggtg ataatccttc gccttcccct tctccctccg	50880
tcccggagga cggcacggcg gcggaagccc cgggtgggaat ttcgcttatg tcgcttattc	50940
ccggcgcgga cgttacggca acaacctggg aggacctaaa ggactccgtg gagcaggcag	51000
aggctcgacgg aaaaataatc gctctcgacc cggcccttgc ggggaccatg tccgccacgg	51060
cagaactggg gatcgccac aataacagcg tggtaatcga cggcggcggc ctcacgcttg	51120
gcgcgccgtc cggcggagcg catttccgca ttacaaattc gggcacgggt accgttacct	51180

BT.LABNUT.020.WO - seqlisting

tgaaaaacat gacgcttgac ggcaccggcg gcacaggcag cgtcgtcctt tcaggcggcg	51240
gcgcgaagct cgataccgta acggtcagca gcgtttccgg tacggctgtc tccgccaccg	51300
gcacagacag cttaacgctt acaaacgtaa gcgttgcaaa cgcggccgca ggagttgcgg	51360
caagcgcagg cgcgcttacc atttccgatt cctccttcca aacgatctca ggcacggccg	51420
taacggcatc cggcacggct acgcttgata ctgtgacggg agacggagca aaaaacggcg	51480
cggctggcgg gagcggcctg ctgaccatcg acggttcgga attcaggacg gtcgccaccg	51540
ccgccattac gcttggcagc ggcggcgcgg aggttacgga taccatcatt gacggtgtga	51600
cgaacggctc cggcgtcgtg acgggggcca atacactcaa gcttacgggt tctgcgatca	51660
cgaatgttac aggtacgggc atcgctggaa acagcggcaa tattaccgta gacggctgca	51720
cattttcggga aaccaacggg cacggcatca gcgaaggaaa agacgtcacc gtcaaaaaca	51780
cattgtttga aaatgtgctc aaccagcgcg gcggccatgg cagcgaatc tatgccggca	51840
cgaacctcac ggtagaagct tcaagctttg tgaacagcgc ctccacgtg gacagcggct	51900
atattcaggg agcgatcgtc ggctacggag gcagcgggaa aacgatcaac gtaacgcgct	51960
cgtacttcaa ggacaacaag gcctcccgct acggcggcgc gatcggcctt taccagtacg	52020
gcggcactgt gaacgtcagc tacagctatt ttgaaggcaa cggcgtttcc ggcaaaagcg	52080
caaacagcga cggcgggtgcg atcggcgtct acaacaacag cagcagcgta ctttgtacgg	52140
tgaacgtgga taacaatacg tttatcggca atactgcggg cgacgacggc agcgcgctct	52200
ttttcgaggg ccgcaacgac atgggtggctg caaacgtaac ccataacacg ttctatggca	52260
ataaatccac caaatatttg ctggcggccg cggacagcgg cggcgtgggt cagctttccc	52320
tcgatgtggt cggtactttt accaataaca cgttcatcgg caacactgct cccaattatg	52380
caagcaagca tggggccggg gcggcggctg gcgagcatat cgactccgag aacgcggcgg	52440
tgcgtccac ggccaccttc aaaaacaaca ttttcgtggg caacggcggga aacggcggca	52500
atagctacgc ctcccgaat atcgacgtca cggacggcac cgaccttggc ggcaacgtag	52560
gctacgaaa cggcacggct gttgcggcga atatcacggc ggagagcgta ttcggcactt	52620
ccccgcagcc gcgcgcgaac aacacgcac acggcgcggc gggaaaagcg ggcagcgggt	52680
atacgggtat cctcacgacc gtcgtcatcc aaccgaacga cggggtaacg ggacaggcgg	52740
ataacacagc cggcgcgccc gcttacggca cggtatgaag aggattcacg cgcggcgcct	52800

BT.LABNUT.020.WO - seqlisting

ccaattccga tgccggcgcg ctggagatca aattcgtgaa attcgacgcc aacggcgggcg	52860
cgtggagcgg actgcccggc cttacctacg acggctccaa atattatgcg gacgatacgg	52920
cttcacggg ttacttcctc gtaacggacc cgggcggcag cgtgagcgta ctcagcggcg	52980
accttcccac caatgggtccg cttgtctttg acggatggta tacacaggca gacggcgggga	53040
caaaggccac cggcgatgtg gccgcggccg accagacgct gtatgcgcac tggaaatccg	53100
cagcggcgga atacaccgtg acatacgtgg gcaacggcgc agatgccggt acggtccctg	53160
ccccggacac cgtgacggag aatacgcttt accaggtaaa cgccaccccg cccacgcgca	53220
ccggctttac gttcggcggc tggaaggcgg acgatgcttc gggcacggtc taccagcccg	53280
gcggctcggt cattatgcct tcaagcgacg taaccctgac cgccgtgtgg gcgcccgttc	53340
cggtcacata taccataacc tatcacggca acggaagcga cggcggcacg gtccctgccc	53400
cgggcaccta taacagcggc cagacagctg ctatttccgg ccccggaacg atgtcccgga	53460
cggaccacag cttcctcggc tggaacaccg atccggctgg gaacggtagc ggatatacgg	53520
aaggccaagg attcctgatc tcaggaaacc ttgacctgta cgctcaatgg caggataacg	53580
ggcggccggc cgtactctat accctgactt ttgattcgca gggcgggtaca tacgtcggcc	53640
cggtcacaaa catcgctgcg ggaagcaagg ttgcagcccc cgcgccgcct gcacgcacag	53700
aatatacgtt tgatgggtgg caccatactg cggactgtac atgcgcaagc gacgatccgt	53760
gctgggattt tgaccgcgac acgataaatg gccataaaac gctgtacgcc cgggtggatcc	53820
cggcggcaca aacactatat acggtgacgt ttgacgcaca gggcggcagc ggcgtcgccc	53880
cggttacggg aatcgtaccc gggtcacgga tcgcggagcc agccgcgccc acgcgggacg	53940
gctatgtgtt ccgcggttgg tatcaggaga gcgaatactc cagcccgtgg gtatttacgg	54000
agcacacggt gaatggcaac ctgacgctgt acgcaaaatg ggaagcatca cctggcgccg	54060
gtacggatgc cggcgcccg gatacccaa acggcggcgg taaagtggaa agcaccgcta	54120
aaacaggcga tgcctccgcc ccattggcgg tactgattct tgccgcggcg gcggcagctg	54180
cggatgatctt ccgcgcggta tcgacgctaa aaaaacgcaa cagttaacag cctctgcctt	54240
gttcctctcc gggaacggcg cggaaaagcc ccggacagtg tgcccggggc ttttcgtata	54300
tgtttcacat tactaatccc cctgccgtgc agcatccgcc agggggattt tttccgtttc	54360
accggcagcg ccttccgctc cggacggttt ggatgacagt aaaaaacgga tgcgcttcta	54420

BT.LABNUT.020.WO - seqlisting

gcacatccgt tttagaatcc cagtcagtta ttccccggcc ggtgccgaag actccgaacc	54480
gctttccgcc gcttccgccg ctgtcggcgc gtggccgaag cgggtactcaa tctccttgcc	54540
gcggatctcg gcgatctgca tcatctgcgt aaccgtcaca aatttatagc cttcatcctt	54600
cagcgccttg atgatcctgt cgtacgcata cacggttgtg gcatggatat cgtgggacag	54660
aacgatagcg ccgtcctgca catatccgcc atccgggggtg ccgttgacca catggtcgta	54720
cacggtatcc gggtcgcggg tttccttctt ccagtcgttc ggggtccaccg accacaaaat	54780
ctgctcgcgg ccaatctgct ccgccatgtc ctcagacata gagccatacg gcggacggtc	54840
gatcagcgca cgcaggcccc tcgccgcttc gatcgcatac ttggccttcc catactgggt	54900
cgtcatgatt tcatcaagcg aaagcttcat caggctctta tgatcccagc tgtgcgtgcc	54960
gatctcgtgt ccttcgtcat acacgcgctt cacaatatcc ggatactcgg ctgcgttggt	55020
cccgaccatg aaaaacgtcg cgaccgcata gttttccttc aggatatcaa gtagcttcgg	55080
cgtgttttcg ggatgcggac cgtcgtcgaa agtaagcgcc actactttgt catttaacgg	55140
atcgatcccc tcaaggctct tcggggccat gtatccttcc tttgcctgca gctgggcgag	55200
gctagtgggt acctcgggcg tgggctcggg cgtcggttcc ggcgttgccg ttggttcggg	55260
cgtcgccgcc gcggacgggt ccccggtggg ggtcgtggta atcaccgtgg gcgcggcgga	55320
agattccgcc acgctgcccg tgccgccgca tcctgccgca aacgcggagg ccaccagcac	55380
cgcaagtatc atagagatca atttcatttt ttatttcatt cgttattcct ttcagcggtc	55440
ttgggggaac cgccgcttca attataatac acatactgat atgttgcaaa caccagcggc	55500
cagcgtgat caataaattc ccggtatgcg gctctttccg tcattcctcc ccaacagctt	55560
cacccgcagc tggagcgctc ctgaacaaat atgcgggcgt ttctcctctg agctccgcga	55620
tctgcatcat ttgcgagacc gtgacgaatt tataaccctt ttccttgagc gcgggaataa	55680
tacgcgcata cgcgtccacc gtggactggg aaatttcgtg ggacaggatc acaacgccgt	55740
cctgcaccac gccgccgttc catccgttca ttacatgctc atagatggca tccgcatcct	55800
tatacttcca atcctccggg tccaccgacc aaaggacctg ctcgcggcca atctcttccg	55860
cctgctcctc cgtcagggtg ccgcccggcg ggcggtcgaa aagggtacgc aggcccgtcg	55920
ccgcttcgat cgcgtcgttg gccttcgtgt attgctccaa ctgctccgct gtggacaggc	55980
ccttccattc cgacgcttcc ggatgggtat agctgtgcgt agcgatctcg tgtccttcct	56040

BT.LABNUT.020.WO - seqlisting

catattccccg cttcacaacg tctggatact cctcggcgag gttccccacc acaaaaaacg	56100
tcgcgactgc gccgttctcc ttccaggatgt ccagcagctc cggcgttttg accggattcg	56160
gccccatcgtc aaaagtgagg gccaccacct tgtcgttcat cggatcgatc ccgtcaaggc	56220
tcttggggaag cataaaagccc tccttcgcct gcaattgctc aaggtccgtt acttgcccgg	56280
gagtggggtc gggcgttgcc gccggttcgt cttcttcggg catatgggat gcggcggcag	56340
tttgcccgct cgtaatcact gttggctctg cggcggccgc cgcatcccc gcgccgcagc	56400
ctgcaagcag agccatgcag gcaaggacgg acagggtaat acagaccgtt ttcctcatca	56460
ttttttatcc tttcagcagt ctctgaatac cgttcttttag attatagtgt acttgtaaca	56520
aagttgcaaa ctctttttcc ccggtaccgg cgtatacaaa aagataaccg cagtatactg	56580
cggttatccg gtcattttat cctgctgctt tgcattcttc ctcttcgccc tgtccggcgg	56640
aatcagccgc gggcgacta tagaacttaa agccgcccat atcctggccg cgggcttcgg	56700
caatctgcat catctgggtg atcgtgacaa acttgtagcc ccggctcttg agttccttga	56760
tgatacggtc atacgcgttt acggtcgtct catggatgtc atgcgacagg atgacccgc	56820
cgtcggaaaag gtagccctcc acttcctttg ctccgccgcc gtccccgccg ttcattcacgt	56880
tggaataaat gatattctgga tcgcggtaat cggtcaccca gtctttcggg tccatggacc	56940
agatgatctg ctcccgcccg atggacgcgg cttcctcctt tgtgatcgct ccgcccggcg	57000
gacggtcgat taggggtgcgc aggcccgtcg ccgcttcgat cgcgtcattg gccctcgtgt	57060
attggtccaa tttctctcct accgataaat tgggccattc tttcgtatgg ttccagctgt	57120
gcgtgccgat ctcatgtcct tcgtcgtaga cacgctttac gatatccgga tatttctccg	57180
cattctgccc cagcatgaag aacgtcgcaa ccgcatcgtt ttccttttagg atatccagaa	57240
gcttcgggggt aagcgtctcg tgcgggccgt cgtcaaagggt cagggcgatc accttgctgc	57300
ccatcggatc gatccccctg atactttttg cggtcatgaa gccgtcccgc tgccggatct	57360
ggtagatatc cgtttcggct ggccccggccg gggccgtttc ctgctcagtt ccggctgcgg	57420
ctgcctgctc cgccccgagg accgcttcct tgttcccggc attcagtatg cccgcaagcc	57480
ttgcaagcgg gactcccacc tcaaagcttc ccgccccgga aggcgcgatc gtcccgtcgc	57540
cgaagaaaaa cagcacttta tccggcgcta acacgaaatt cgcataattg gcttcctcgg	57600
gagccgttcc ctgtgtgaac aggctttcat ccatatTTTTT cagcagtact tcattcctgc	57660

BT.LABNUT.020.WO - seqlisting

gcagatattc ctgcgcagcc tgcgcaacct gcgtgaggta atcctgtgac ggatcgaaca	57720
catccgaaag cgcgagcttt ttgcctgccg cggggctcgta cacaaacgca tcgacttcct	57780
ccgccgcagc ctgccccgcc agctccgatt ccgtcgtaaa ctttatactg agcaggttcc	57840
cttccgtaac atacggctta taggtcatcg tcaggctgca cagcccatct ttgttttccc	57900
cgtgcgcagc gtccgcagac gcgcggaatt ctgcgagctt attttccgca aatgctttca	57960
gctctgccga gatatccggc gcgttcgcga ccaccggata atcgacggat accagggtat	58020
ctccttccgt ttccaaaata tgtccgctcg ttatcccttc cgccgaatca agctgcctgc	58080
tcaccgccgc cgcttcaaac cgtccccggg aggcttccat gtccccggtt ccatttccc	58140
cgcaacccgc cgcaagcgga agcgccaacg ctgccgccgc aaaaagcgcg atccatttcc	58200
gtttcatact ttttcccccg cgccggacgc ccaatacccg gcctttgttc ctatgcttgc	58260
cgctcccaga cctgatccgc ggttttgaag cgtctttcgc caccaaaatt attttcccat	58320
attataccac agaacctata tttatcaciaa tttgtttccg catgccgcgt gtaaccttcc	58380
acgacggagt ttgtaatccc tttcccaata tgatacgata ctaggtacga gcaggcgggt	58440
gcgttatgga ttactcaaaa aagagccttt gggctttttt gccaaacagg aaaagcgaaa	58500
cgaaaccagt ggatgtcttt tacgtatatc ccactattta cgcgcacca ttccagaaaa	58560
aacgccatca tatgagcatg aggaatccga tctacctgtg ggtcgccaag gggatgtctg	58620
cctggcaggg ccagcttttt gcgcgccatt gcaattttta cgcgccgcat taccggcagc	58680
ttggcacaga aagcttcaaa atgcccctgc ctgaagtcac gcgcgcggaa cggatgcctt	58740
atgaagacgt acgcgatgca ttctactatt accttgagca ttataacaac ggacggccgt	58800
tcatccttgc cggacacagc caggggagcg ccatgctgct ccagctcatg cgccgggaat	58860
tttccgatcc gcggctgcag aaaaagctcg tcgccgccta tttgatcggc ttctcgctta	58920
cccggcgcga tttcaagcgt tatccgcata tccgccttgc cggggcggcg gacgatacgg	58980
gggtcattat ttcttataac acgaccgcgc acggccttcc cctgatgcgg tttatccgcc	59040
cggattcgct ttgtgtcaac ccgctgaact ggcggcacga cagtgtatat gcggataaat	59100
ccaagaacga cggcgcgggtg ctgttccaat tcgggaaaag gttcaaatac gaggtgcccc	59160
actatacggg cgcgtatgtg gatgaggcgc gcggcgtgct gatgatcgac gacgatgcgg	59220
cttacgagct ttacaaggcg cgggtggttct tcaaaaaatt tctgatgaac cgtggatcgc	59280

BT.LABNUT.020.WO - seqlisting

tgcacatgct cgatatcgcg cttttctata aaaacctcga gcgaaatgtg ggggaacgaa	59340
tcgccgcata tttgtcccgg ctttccgaat gacggcgctg cgcgcccccg caggataaat	59400
ccgcagtaaa aaaaccacgg atactcaatc cgtgggttttt agctctttcg gctttgtgat	59460
gatgcccgcg aacagttccg cctcgccatt ttcgtccgcg gatacccggc cccggcaatg	59520
gatccacacc cattttccgt ccttatcgcg caccgggtat tccaaatcat gcgtatcggt	59580
ggccccgtcg cgtatttcct ccatcgattg tgcaaaggca gggcgttcgt cctcatggat	59640
cagcatgctc catatggaat ctccgccata cacaacctct cccggaagcg caaattcttc	59700
caccattttc ggcggaaaac ggaacatatt cgtcttcata ttgcagatat agatataatc	59760
gtccgtactg gccgaaagcg cctcgtagag gtgctcctta tcgtaggaaa aattccccgg	59820
catgcccttt tccgcccgtc cacgtcccat cctgccgttg tggatatatcc gcttctgccg	59880
gtacatccgt tcgtccactt ccgtgggtgat cttggttata tcttccatgt cctgcgggcc	59940
gacttccagc actccatagc aaaagctgat ctcataggc tttttttccc gttcccggat	60000
ccttgccagt tcctcgagcg catgctgcat gaccctatcc gccacccgtt ctccgcagcc	60060
gtaaaacacg accataaatt cgtccccgct catacggaag gcgaactggc ctttttccag	60120
cgaacccgta accaccttcg caatcgtagg gagcaaatta tctccctcta catgtccgta	60180
ggatatgttt accgttttca acaggttcac atcatagagg cacaccgtaa ccgccgcgt	60240
ttcttttttg gcccgcgcaa gcacttccga aagccgctcc ttgcctgcgc ggcggcccat	60300
catccctgtg agctcgtcga ggctggcctc ccgcgacatc ttttttgcg tcgtaatatc	60360
cacggattgc tggaaatgca cgatgcgccc gtccagccag cgcatcgtgc tgtcataatt	60420
ttcataatgc ctgtgcgtga gcgtattgta ttctccac aggtaggatg gcttttccgc	60480
cggattgttc cgcagctggg cgatcgggca gaaatcacia cgctgcgtct tatccgcctg	60540
caaaatcttc cagcatatct taccgatagg ttctccacg ccaaactctt tgcgcatggt	60600
cttattcata aaaagaattt cgtccgtatc gagatccgtt acatagatat tcgcccgc	60660
attatccatc aactcgtaa acaccacgt ctgctccatc tggttctggc aatagatccg	60720
gttggcaagg gcgatcctcg aggtctgcgc gagcatttcc aacagccttt tttctcttc	60780
cgtccattcc tgttcttttt ccgccatgat tacgccctgg atgcggctgg aataagaaac	60840
gggaaccacc aacaggggcg cgtcttcttc cgtccggcag tccaatttca tgatcctgtc	60900

BT.LABNUT.020.WO - seqlisting

aagcttctca tcgtctgcgg cctcgtccgt ccgggcaaaa tccttcatt cactgaaatc	60960
cagatcaaaa aaatgacgga ccgcctcctc cggcaggatc cttccattgc gccacaccgc	61020
ggcttcacgg acccggtagt cttcggagag gccaatgagc cccacgccgc agacaggcaa	61080
aaaacgccgg ataaaaacgg caaagctttc gatgatattcc gcaagcgggc cctgcccgat	61140
cacaaagggg tccagttctt cgagcgcttc attcaggatg tttaaatatt ctgttttccc	61200
acagttgccg ctcatataaaa aatacccttc cacgctagta tgttttaaaag atattgtgtt	61260
tattatacgc cttcgctata tgaaaaacaa tcatatttct tattttaaca aaatccatcc	61320
cggccgctga aacttccgct ttttatcact gcttgggcgt tccgtccagt cttttttaat	61380
tgtaattgtt tttcaattac attattgtac attataacgc ttcctcaaata aaattacaat	61440
attaattaca ggagaagcag cggatatggaa aaattcaagg tcaatacaaaa cgacggcaaaa	61500
atttcgtcca tcaaccggac gatccgtttg aagccggaat attttgaaaa aattatggag	61560
ttgagtgaag agaccggcgt ttccttcaac aaaatcgtga accagtgtat tgagtatgcc	61620
ttaaataata tggaagaaaa ataatgcaga tatcaaaaaa gacgttgccg gagcagcgctc	61680
ttttttgatg tttccattta ctgaagaatg ccgtactgta cgataaccgc cgcaaaaacg	61740
accgccacca tagacatcag cttaatcagg atattgaggg acggaccgga cgtatccttg	61800
aaaggatcgc ctaccgtatc gccgacaaca gcggccttgt gggcttcact gccttttccg	61860
ccgtgcgcac cgccctcgat gtatttcttc gcattatccc atgcgccgcc ggagttggac	61920
atcataaccg caagcacaaa gcccgtagcg gtcgcgccgc cgagcatacc gactacgccg	61980
ttcgcgccga ggataaggcc cacgatgatc ggggcaacga atccgaggat cgccggagcg	62040
agcatcaggt gcagcgcgcc cttcgtgcag atgtccacgc acgattcgta atcaggctct	62100
ccttcgcctg tcatgattcc cttaatctcc ctgaactgcc gccgcacttc gacaacgatc	62160
ttcatcgccg ctttcccac cgcgctcatt gtcattggacg agaacaagaa cggaagcatc	62220
gcgccgatca gcaggcccat caggaccgtc gggtcgagca gggagagcgc cgacatatcg	62280
atctggcact ggtccgcaaa cgctgcgatc aacgcaagcg ccgtaagcgc cgactgccg	62340
atggcaaagc cttgcccgt tgcagccgtc gtatttccaa gcgaatcgag cgcatccgta	62400
cgttcacgta ccaccggatc ctgaccgctc atttccgcga ggccgccgc attatctgca	62460
accgggccgt aagcgtccgt cgcaagcgtg atgccgagcg tggaagcat gcctaccgca	62520

BT.LABNUT.020.WO - seqlisting

gagatcgcaa cgccgtaaag accgacttca aagctgccgc tgccaagcgt tccgcccga	62580
gcaaaatagc tgatgagcac gctcgcaacc actacgatga ccggaaccgc cgtggatttc	62640
atgccaagag caatcccgt gataattgtg gtcgccgggc ccgttaccgt agactccga	62700
aggtcttttg tgggcttgaa gtggtcggac gtgacgtatt ccgtatagta gccgatgata	62760
atgccggcaa caagaccgga aaggatggcc acatacacgc cgacatggtc cggcccagg	62820
attcccgtta ccaggaaata acccgctacg gcaacgatcg ccgctgcaat atacacgccc	62880
ttatgaagcg cggaaagcag gttcttctgc gaagcgttct cttttgtttt caaaaaaag	62940
ctgccgatca cgctggcaac gatgccaagc gccgcgagaa ccatcggaag cgccagtccg	63000
ccgccgccga ggcccgccgc aaccgcgagg gcgcccgcg aaataatgga cccgacgtag	63060
gattcgtaaa ggtccgcgcc cattcccgca acgtcgccga cattatcgcc gacattatcc	63120
gcaatggttg ccgggttgcg cggatcgtct tccgggatgc ccgcctccac cttgccgaca	63180
aggtctgctg ctacgtcagc cgctttgggtg aagataccgc cgccacacg cgcgaaacgc	63240
gccatgcacg aagcgcccat gccgaacatc agcatgttgct tcgcgatctg cgccgtatcg	63300
cccgcaaaat acgcgttttag tataaaatac cagatcgtga gatacagaag gccgaggcct	63360
acgaccgtca tccccataac cgcgcccgaa gagaacgaaa cgcgacgcgc cgaattgagg	63420
ctcttcgtcg cgcccgtagc cgtacgggaa ttcgccgccg tggcgatttt cataccgatg	63480
aaaccgcga gcgcgggagaa tacgccgccc acgatgaatg cgatcggtac gaagaaggctc	63540
atgaagcctg ttgcggccaa gatcgccagg acgatggtta cgatgacgaa aaagatcgca	63600
accgtcttat actggcgttt caggtaggcg ttcgcgcccc gcctgatggc accggcaatt	63660
ttcttgatct tttcgctgcc ttcgcttttt ttcagcacac cggatgcagc gaccgctgctg	63720
aacacaagtg caatgacagc gccgatcaag gcccaaaaca taatgtccat tggctacttc	63780
tccttatgat tgcatatatt tgtagaaact cttatacagg cgcgcccgca ccgccc aaac	63840
cggatatggc aaaagcgcgt catctatttc aaatatggaa atcggccttc cgcgctctgc	63900
cggagcaagg ccgcctttgc ttgcttcttc ttgttgctga aaagttctac ccgctgccc	63960
cgcggttttt ccgccgggtt tgcacggagt cccgggctgt ctgtcttgat gaaaaccgt	64020
accgggagcg gcaccgtaaa agtagttcga aaacctgacc agcttcatta taatactttt	64080
tttgtttatt tgaaagtaaa attggcaatt tattcccgt ttttttgaac aatttcaatg	64140

BT.LABNUT.020.WO - seqlisting

aaatttctcaa ttttttcgaa cattgctgaa aaatatgcac gatttcccat tttgacggga	64200
tttgacaggt ggatttggat aaattataat tgaattgtac taatacactt aatacagaga	64260
taggagacgc tgccgcgcta tgatggtaaa gcttgacccg gcatccaaaa agccgatcta	64320
tgaacaaatc gtccaggagg taaagtcgct tgtcatgacg ggaaagctgc tgccgcatga	64380
gcaggtgctt tctgtgcgca aggcggcaaa ggagctgggc gtcaatcca atacggtcca	64440
aaaatcatac gcgatcctcg agcgggaagg catcctttac tctgtgacgg gaaagggcga	64500
ttttgtggcg gacaacgccg cccgcatcaa ggagatgaaa aagcaggaaa tccgtgatat	64560
gttcatacag gtcacgcggg aggcgcgcga ttccggtttg tggatcgatg aaatattcac	64620
catcgtggac gaggcctact cgacaaactg agaacgggtt ttccgctctt gcgccgttcc	64680
gcacgatcag acgtccacag ccgcccgaag ggcgcccttt tttatccccg gccccgaaa	64740
cccacgttcc cggcggcctt attttaattt tcccggcggg tttggagtct tgcggaaagc	64800
gtataaaata attatcaaac ggaaaggaca aacagaaaat gtcgatgcg gttcgccgta	64860
caacatgcgg aaaaatatgc gggacgggtg aaaaggacgt ccatgtatgg cggggcattc	64920
cttatgcgca gccgccata ggtccgctgc ggtttcgccc cgcgagcct gtctccgcat	64980
gggacggggg ttatatggca acggcattcg gaccgcctg ccccagcgc aaaagacgcg	65040
tcgggacgag cgaggactgt ctctacctca acatctggtc tccccggccg gacggtaaga	65100
agcgcgcggg gcttttcttt atccacggcg gttcgttcgc gggcggggcg ggcagcgatc	65160
ccgaatacga cgggacgtcc ctggccaaaa gcggggacgt agtggtcgtg acggtcaatt	65220
accggctggg cgtgctcggg tttctcgatt tctctttcct aggggaagat ttctcgccga	65280
actgcgggct ttccgatatc gttgccgcgc tcgcatgggt gcacgggaat atcgaagcat	65340
tcggcggaga cccggaaaat atcacggtgt tcggccagtc tgccggggcg atcgccgcct	65400
ccgtactgcc cgtaatgcct tctgcgcgga actatgtatc taaagttatc atgatgagcg	65460
gcggaccgtc gcttttgtat acgaaggagc attaccggga aaccgcacgg aaattccttt	65520
catttatgaa tatctccacg ccggaggaac tgcgcctgat ccccgaggag aagctggcgg	65580
caaaacagaa aaaatttgct tcctgctgcg gcctcggcga cggaaccttt atgatcgagg	65640
tagacggagc gctggttccc gattaccgga ttcccgcggc ggcgagggc gccgcgaggg	65700
atatccctat cctgatcggc acgaccggg aggagctttc cttttcctgc aaaaagcttc	65760

BT.LABNUT.020.WO - seqlisting

tttccagggt gctcgatatc ggaagcatct taaaatcaga ccgcaacaga gaaagcgcag	65820
agacccggca gcggatcagg gaggcctaca gacggtatgg acgccgtgcg gaagccatga	65880
tgctgacaga ccgtgttttc cgtatggcaa gcgtatggta tgccgaggtc tacagccaat	65940
atgcgcgcac atggatgtac cgtttcgatt atgaaacccc ggccatgcag cttaccgccc	66000
tgcattgcctg ccattcttcg gatatcccgt acgtcttcgg caatctccat gcccggcagt	66060
ataaatggat gttccttctg cccgcgccgc gttcacgccg caaagtgtc gcggagattc	66120
agggggattt catccgcttt gccaaaaccg ggcttctccc gtggccgcgg tgcggcagcg	66180
gtatgacccc ggcaaagtgc tatgacaaac gctgccgcag cctgcccattg gtggagccgg	66240
agatcaagcg cgaatatgaa aaaagcgaat tcaagcgcca cagctttaa gggcttgact	66300
atacgggagc cggtcagcga taatagaggg aaacaagctg aagatcggag gatgccgtat	66360
gacagatcta tcggaagtcc ggaagctcct tgcggaatat tctacgtgcg agataagcga	66420
aattacgccg gaaaagcgtt taacaagcga cctggagctt gattcctttt ccctgcttga	66480
cgccgttgcc gcctgtgaag accacttccg cttttctatc ccggacgagg atttaaggcg	66540
cctcgatacc gtccaggatg tgggtggacta tatcaacgcg aaagcaaat agcgaaga	66600
gcctcaaaag ccgtattgcg tctcatgcmc aggtacaatc tttcctgggc aggtttcgcc	66660
gcccaggcc attctgtcag cggcagcaac attttaaaac ttatacaaat aagtttagcc	66720
gtgatttcag ggctgacaac cctaaccaga aacggacgac ggacatcatc tgcatacata	66780
cgaagaggt ttgatccgt tttccctatt ttttctttct cgagaggttc cagatggaaa	66840
gcgcgtaaaa cgagccgcc gtaattacca tgaccgcaat acatgccgcg ggcgtcgtca	66900
tttccccgcc gaattcaaat ttcacgcaa gcgccgtatc gaagtcccgc accatgcttt	66960
cgggcgcgcc ggcaaaggaa accgcggcag gttgctctgt catcactgtg cggaaaaaag	67020
acgcggagta agagaccgga aacgcccgga tgatcccctg caccgcctcg ggcagactgc	67080
cgatgggaat atagacgccg gtaagaaagc cgatcagcgt gccgatgaca gtgctcgccg	67140
ttccgaacgc attctggctt ttgaaaaacg agacgataaa aagcacgatg gagctcgacg	67200
acaggaccga aagaaaaatc ccgccgatca cttgagcat attctccatg gaaagcacct	67260
ccccgccgga cgcaacgata aaaatctcgc cggcaaccag cgcaagcagg ctcatgatga	67320
cgcccacggc aaacgcgcag aaaatataac cgcccgcgag gctgccccgt ccgatggggg	67380

BT.LABNUT.020.WO - seqlisting

acaccgtaaa atccttgacg atcttttttcg cgcgggtcctc caccatgatg ccgaacgcgc	67440
ccagcgtgga cgtcatggag atcactgcga ggatccccgc gatgatccag ctgttcatca	67500
gaaagtcgat cccttcaca tcttccatgc cgcctgtaat cgtgtcgccg aggaacaccg	67560
catacagcgc gatgatgata aatacggcga gcaggga aaaacaccgag cttctgtccc	67620
tgaagaatac ttttaagttg cgttttgtca ttgccacat aatcagttcc tcacttccgc	67680
gcctgtaatg ttcaggaaaa cgtcgtccat cgttccccgc cgtacctga atccggcaat	67740
ctcttccccg catttatcga taatgccgat tgcctccgct gtgtgccgca gccggatgat	67800
aaaatctccg cctgtttttt ggaaagcgat cccttccccgc ttcaggaggc cggaaagctt	67860
ctcttccccg ttgggctga tcttaagcat atcccgggta taattttcct tgagctccgc	67920
gggcgttccc ttggcaagaa tgcgtccgcg gtccatgatg gtgatgtagt ccgcctgcgc	67980
cgcctcttcc atgtagtgcg tggtaaggaa gattgtcatg ccgcgctccc tttgcagcag	68040
gcggatcgta tcccatacct tgcggcgggt ctgcggatca agaccggtt tcggttcgtc	68100
aaggaatagt atttgcggcg tattaacaag agcgcgggcg atatccgcac gccgccgtg	68160
cccgccggaa agctttccgt acgggcgggt ccaaaacccc atcacatccg ctgtaaacgc	68220
cgcggatgtg accgcgtccc tgagtgcgtc ttttcccatt ccatagaggc ttccccgcag	68280
cagcaggttt tcgcgcacgg taagcagtgc gtcaagaacg ctgtcctgga aaacgatgcc	68340
gatttccgcc cggatggccc cgtcttcccc gcctagctcg cggctgtcca ccaggacccg	68400
ccccgcatcc ggcgcgagct gcgtagatat tatgtcgatc gtcgtcgatt ttcccgc	68460
attcggccct aaaaacgcaa acagcgctcc tttttccaca taaaagtcga ttccattgac	68520
agcccgtaca tttccatagg attttttcag gccttccacc gtgataattt ttgtcatgct	68580
tctcccgctc tttcggtttt tacagggttt acgttatcaa taaaaaaga ccgcttcaag	68640
cggttttgcg caaggtgcat tttttctatg ctaaagtga gaaaagccgc ccggctacag	68700
ggacagggtg aacaggcagg acaccgggaa aacaaggata agcgcgggca gcatattaac	68760
agccttgacg tccttgattt tggcgatggc aaagccaagc gcaagtgtca tcagcccgcc	68820
gacggcaata aaatcgcca acatcggttc gcttataagg ggcatgataa accggctggc	68880
gtaaaagcag gcggtaagga tcaaaaactg cgggaggaca atgataagga tcgcagagcc	68940
gagcgccgtg gcaaagataa gggacgcgaa aatatccatc gcggccttgg aaagaagcac	69000

BT.LABNUT.020.WO - seqlisting

cgtgaaatcc ccggtcatcc cctcggtgaa agcgccgaag atattggtgc cgctggcgca	69060
gaagaccgtc gccacaacca cgtaaaaatt catgtactcc ttccggtccc cttcgatctt	69120
aaaatgcatg cgggagatcg ctttcccaaa cagggcgcg g acccgccgt ccagccgcag	69180
taattcccc gccaacgttc ctaggataag cgacaggatc acggccggaa gggaagacag	69240
ctttgtcagg gagatcacc c gatggcaat cgcgcaaatc ccgaaaacag tattaagggg	69300
ctgcgaaatg cgctggggaa cttgtctt tatttttagcc ccggcgagcc cgcccgcgac	69360
gatacacagg caatcgatta ttaccctac cggcatgaat gtttctccc tcgtatggtt	69420
tcaaagacgg tgtaataata cataccgggc tttggaagtc aagcggaagt acaaataaaa	69480
aggcgggctt ccgcccgcg gaccggcagc tccggtcatt tccgtttcat tttttgatc	69540
tgcttattga tatcctccgc gtccgctttg ttttgataa caagcacacc aaaggtcgcg	69600
aggtatacga cgccgatcat cccgagaaca attggcacgt agggcatttc catgggaata	69660
aagcccgtgg gcccgccgat caggaacacc accgcgaca tatcggccag gtcgacaatc	69720
atctgcagcg ccgggctgct gatcggcagc ctgtcggtaa aagaaatcat caccgcgata	69780
cacgtcgtca tcaggaacag gaccagcacc gcttcggca ccacggccgc aaacccacc	69840
gtaaccgaga gtatcgtaaa caaaagcatc agtacggtaa aggaaacgca attcatggta	69900
acgtaaaact taaatttcga catcttctt ttctctcta caggccaagc ttttgcttga	69960
gcgtttctac ataatggcgt gtgacgatga ctttttcgcc atttcaagc tccgcctcca	70020
tttttccgtt cagcagcgcc cgcacatttt tgagcgtcat tacgttcagg atgcacgatt	70080
tgctgatgcg caaaaatta gcctttgcga cctggctttc cagctcgtat aatttcaggc	70140
cgcatcata gacctctgt tccgtataaa cgaaggtgcg gttatccacc gactcaaat	70200
agaatacatc cccgagccgt atctggaagg tctttccgtc ccgtttggct atgacggaaa	70260
aggaatacag cctgatctgc tcgatcagtt tttcaagtcc gggatcgata agcccgcat	70320
tgatggtgac ctccacctt tcattgtccg gcgactggtc gatcagaagt ttcaacccat	70380
tccctcctcg ttacggcctg tacggcgcac cgtcccgcat tcgcctgcgg ggcattgcgtc	70440
ccttttgctg ctccttgccg ggccttccgt caattggtaa aaaatccaag ctgcctgccc	70500
gccggttttt tgcgcgatg cgcggggcct tcggcaagaa gtccggaagg aatatccgca	70560
agaaaaggcg agcgttctt ttgccttgat agcataacaa gctcgtcctg tgcgcgggtc	70620

BT.LABNUT.020.WO - seqlisting

atgccacat	aaaacagcct	gcgttcctct	ccttcgctgc	attccccatc	cttcctgcgc	70680
aagggaatca	ggccgtccgt	tacgccgcac	aggaatacgg	ccgggaattc	gaggcctttg	70740
gccgcgtgca	gtgtcatcag	cgtgaccgcg	tccgcggtat	atgccttctg	cccgtgcgc	70800
tttaggtcgc	cttcctgtcc	gagcgtcagg	gcggttagaa	agtctgccat	gcggtgatgg	70860
aacaccgcca	tgttcctcag	gcgtttcagg	cacgcgggcg	cttcttcccc	atatccttgc	70920
cctgaaatcc	atagatcgag	aagctccgca	ggagcagcct	tgcgcatcag	cggcgcgcag	70980
gtttcaaaat	gtccggcaag	ctttgtttcc	cccgcattct	ccaaaacaga	tacaagcgaa	71040
gctgccgttt	gcttcctccg	tccgtaagcg	tccaatatct	tttccgccac	tgccggggcg	71100
acgctgtccg	cccgcaggca	ggtcccagg	gaaacgtgt	ccttcgggtc	gcacaggatg	71160
cggaaaaacg	cgagcgcgcc	gcgcacgcgg	cggtcagtga	gcgtattatc	ctttcccagc	71220
accacatagg	ggattccctc	ttttacgagg	cattcctcga	tcagctccgc	ctgccggtgc	71280
gtgcggtaaa	gcacggcaat	atcggacagg	ccataagcgg	tgtccgcgct	ttttttatgc	71340
tgcgcatggg	cggcaagcat	gtcgaccccg	cccaccatag	cgtaattttc	cttcgcaata	71400
aacagcgcct	ccgagaaggg	agagtccgcc	gctaaaagcc	gcgtttttac	accgctttcc	71460
cgctgcgctt	ccagcacagg	ttcactgcgg	cggagcaccg	ggagggcgca	gccgatgatt	71520
tcgggcgtag	aacggtagtt	ctttttcagg	cgatatttcac	gtacaggccg	gtcctctttg	71580
aggcgcgtca	agcaatgcgc	gtccgaaccg	cgggaagccgt	aaatagattg	gtccgggtcg	71640
ccgatcacia	aaattccttt	gctctttttc	ccccatgcgc	ggatcaattc	gagctgtacg	71700
ggattgatat	cctgaaattc	gtccacaagc	aaatgctcaa	agcgcggaca	gagcgtttcg	71760
cactttgcgc	cgccagcacg	gaatttctcc	agcgtatcgg	ccaggatatc	gtcgaagtcg	71820
agcacgccga	gcgagcgcag	ccgagcgcag	taagcgtcgt	acaccacctg	gggaatatcg	71880
cccgccgcgc	cgttcttgat	tttagaaacc	gcctgtattg	cgtcgcgggg	tttcatgaca	71940
cagttacacg	cggtaagcgt	ttcggaaaga	accgcctgcg	cttcctgtcc	gtcgatcacc	72000
gttatatctt	tatccatttc	tttcagcagg	ctgagcccaa	gggagtggaa	cgtgccgatg	72060
tgcatgtccc	gcaccgcctt	tttatcgccg	aattgcgtct	ccagcctctc	ccgcatttcg	72120
cttgccgctt	tattcgtaaa	ggtgacggcc	gtgatcgctt	ccggcgctac	gccgcactgc	72180
tcgacaagcc	atgcgatgcg	gtacacaagc	gtacgtgttt	tgcccgtacc	cggccccgcc	72240

BT.LABNUT.020.WO - seqlisting

agcacggcga ccgtgcgttc cggggcagat gcggctgccc attgttcttc attgaggccg	72300
taagggtttc cgcccgtttc cacgggtgcc gcctcttttg ggctttcgtc cgccttaggc	72360
ggtgccgcct gcgcggacgc atgtttttcc ggtttctttt tgggttcgtt cgcaagcagg	72420
gaaagctggc cggacagcgc ctgcacctcg cttttatcca tcacgagaat ctttccgtat	72480
tcgccgtcgt agcccggatg gatttccacc tcgccgcagc gcaggcggcg gattccctcc	72540
gcgatgcaca cgcctgccgc ccgttcgatt tccgcgagcg gcgttttgcg caggatggta	72600
agctccggac cgagcgtccc gataagctcc agatattgcg cgcgcacctt cttgctcgca	72660
ggcgtaagcc ccatcgacga agctaccacc tcgggcagcg gcacgatgct ttcaaaatgc	72720
tttgcathtt ccggccgaaa tccttcgcg cggtccgcaa gctccaccac acggtggtag	72780
acgcccacgg tgatgcgccg cccgcagacc gggcatttgc cggccgcggc ggccgtctcc	72840
tccggcgtca tgcacacctt gcagttccgg tgtccgtcgt tatggtatht cccttcctcc	72900
gggaaaaact cgagcgtccc gtaaaattca tccgtatcat ggttttcgag cgccgccgca	72960
atggcgggat agctcatttc cgtattgaag agattggctt cccgcgcaag gttcgcggga	73020
gaatgcgcat ccgaattgga taccatcgtg aatccgtcga gcgcagacag ccgccagttc	73080
ataggcggat cggacgacag gcccgtttcg agcgcattgga tatgcggcgt cagggtctcta	73140
aagcattctt cgacggcgtc aaagcccgaa taggctccga acagcgaaaa atgtggcgtc	73200
caaatatgcg ccgggataaa gactgcctcc ggacagatat caagcgtgat ctcaagcagg	73260
tcccggctcg gaaggccgag gatgggccgt ccgtccgaat gcaggttgaa cgagagctcg	73320
agcttccccg ccagcgcctc tgccgcctcg agcgagggca gcaggatcac attgtggatt	73380
ttgcgtacct tgccgtcctg tttatagata gagctgatct ccccgaaag gataaaccgc	73440
ggcgatgcgg gattgcctcc cacctcatcc gcaaggcggg attcctcttt taagcggtag	73500
aggccttctt cggcaggagc cagcttttgc ttcagttcct cccgccatgc gggatgcgta	73560
aagtcacccg ttcccagaag gtcgattccc ttacggcgcg cccacaggtc gagatgctca	73620
ggcacgcatt ccctgctggg cgcacgggaa tatttgaggt ggatatgcag gtctgctata	73680
aacatttaat attccgttcc ttttctcggg tcaaaatgat cgcatttggt cctctcgccc	73740
gtcagcatat cgggatcgat atccccgtac acctggcagg accgtatttc cggcatgccg	73800
ggcgcaaagg tcagcacgcc gtagtgcacg cagttatagc acagcacgtt ttcctcgttg	73860

BT.LABNUT.020.WO - seqlisting

acataattct gctttaattg gattcccaac tgaattctct ctttatgat tacatgttcg	73920
ttatittttca taccctgtgt ctttggaag gtatacagct ttttatagaa gccgccggca	73980
agataaacgg gcacgagcgg gttatgcccc ggaaaggccg ctttccgctc caaaggaagg	74040
gcagctctcc ggcgcatgct ccgcatcgtg cctgaggcag tagcccttcg cgcagtccgc	74100
acaaaaataa gaagacatag gcggttcccc gtttccatag aataacttta ttataccacg	74160
aaaaaagcgg cggtgaacgc tcccgcgct taaaatatcc gtaattacag caattcgccg	74220
tactttcgga taaacatttt cttgagcgcc gtcacgagcg ccatatatgc gattaccgta	74280
acgaacagca gcaggaaaa gctgcctggc atcgccatca tcccaagctc gcgccccacg	74340
atcgtgtagg gaatgaccgt gcccacggca atcccgatgg atgtgagcag cgaaagctgc	74400
cacgaggcgc ggctccttat aaacggtgta tgcggcgctgc ggatcatgtg gatgacgagc	74460
gtctgctcc acagcgattc cacaaccaa cccgcatgga acagcgcgac aaagccctcc	74520
tgcgccgttt cgccaagcgt gtggtacgcc ccgccaaca ccatcgggca cagcaggaaa	74580
tacattgcga ggtacgtcgt gatgtcgaac accgagctcg tcggcccaat ccataccatg	74640
aatttgctga tggaggaagc gtcccacgcg cggggcacgc gaaggaatc ctcgtccaca	74700
ttgtcccacg gaacggcaag gcacgaaacg tcgtaaatca gattcagcag gagaatctgc	74760
acgggcatca tgggaaggaa gggcagaaaa gcgctcgccg ccagcacgga aaacatgttc	74820
ccaaagtgg agctcgccgt catcttaata tacttaatga tgttggcata cgttttgcgt	74880
ccttcgatca cgccctgccc gagcaccgtc agatcctttt cgagcaggat aatgtctgcg	74940
gattccttgg caacgtctac cgccgtatcc accgaaatgc ccacgtccgc ctccttcacg	75000
gcgaccgcgt cgttgatgcc gtcgccaagg aagcctaccg cgtgccccga ggcgcgcaga	75060
gcacgcacga tccgcgcctt ttgctgtggg gaaagcttgg cgaacacatg cgtccgttcc	75120
gccgccgctt caagcgccgc gtcgtccatt tcttcacgt ccgcgccgag caggacgtgc	75180
tttgccggga tgcccacttg gcggcagata tagcgtgtga ccgcatcggt atctcctgtc	75240
agcaccttca cgtccacgcc gtaatctcgc agcatctcga gcgcccgcgc tgtgctttcc	75300
ttgggcgggt cgaggaaagc aaggtagcca atcagcacca tatccgtttc atcatccaca	75360
gagaacgcgc cgcccgtatc ctcgctcagt ctatgcgcga ttcccaagac ccgcatgcc	75420
tccgcgttat atccggcgac ggtctcaagt atctcccgc gcacctcttc ggtaagcggg	75480

BT.LABNUT.020.WO - seqlisting

atcacttccc ctttgtattc cgcataatgcg ctcaccgcga gcatctcttc gatagcgccc	75540
ttggtgatga tctgtgtttt tcccttttta tcagcgacaa ccacgctcat gcggcggcgg	75600
ttgaaatcaa aaggaacctc gtccaccttg cggtaatcct ccgcgagttc cgccatcccc	75660
acatcctgcg catggttcat gacggcgacg tccatcaggt tccgcaggcc tgtctggtga	75720
tagctgttga gaaacgcgtg gcgcagcacg cgcgcatctt ttttgccatg gatatcgagg	75780
gaatattcga gcaccacctt gtcctgcgtg agcgttcccg ttttatccgt gcacagcaca	75840
tccatcgcg cgaattctg gatcgacccc agctgcttga cgatgacctt ttccttcgac	75900
attgccaccg cgccccgcgc gaggtttgcc gaaacgatca tgggcagcat ctggggcgtg	75960
aggcccacgg ccacggaaat ggcaagaga aacgcctgca tccagtcgcc tttggtaaaa	76020
ccgttcagaa acaacacgat gggcaccatc accagcataa aacggatgag caccacgaa	76080
acggagtcca cgcccttttc aaagctggtc ttgggtttgc gcgccgtcac ctgccgcgcg	76140
agggaaccaa gcaccgtatc gtcgcctacg gcgatcacga tggccgccgc cgacccgctg	76200
accacgttgc tgcccataaa ggcgaggttg tcccgcccga gcacgtccgg cccgcccag	76260
cgcaccgtgc gtccaaattt ttccaccggc tcgctttcgc ccgtgaggga ggattggctc	76320
acaaacaggt ctttcgcctg cagcaccgc aggtcggcgg gaatcatatc gcccgcgcg	76380
aggcgcacga tatccccaac gacaatttcg tcaagcgga tttcctgttc catgcccccg	76440
cgcaccacgg cggcagttgt ctctaccagt tctgaaagcc tttccgccgc ccggcccag	76500
cgtgtttcct gcacaaactg gagtgttccc gataaccgaa ccatcgcaag cacgataata	76560
acggcaagcg catcctgttc gcccggctcg gcaagcacta cgtccgtcac aaacgagatg	76620
acggcgagca ccagcagcac gatcgtaaac ggatttaaaa acgccttgac aagccgtttt	76680
aaaagggaat cgcctccgcc gtaggtgatg cggttttccc cgaagcgtcc gcgcataatcc	76740
cgtaccgctt cctgcgcata tccccgtac gtattggaat accgtttcaa aacgtgtcc	76800
tggcttttgc ctgaagcgag gagcagcctt tcttttactt cctgcgcctt gcacgtttgc	76860
agggcaacgt ttactttttt gttcattggt ccttacctcc tgtttgaagt tccggacccg	76920
gagaaacgag acgcagtgcg ccgccctcct gggccctggg ctggtttttg gtccgcatg	76980
tccacgtttc tcacttcctt tcgcaatcaa atcatagaaa caaaaaatcc cgccgaagca	77040
tgaacgcaac agcgggactg ttcccacaga aacacacgaa aaaacgcgct accgttcaag	77100

BT.LABNUT.020.WO - seqlisting

cttcagcatc gcagggcaat gaaattgcat tagtctatgc cttggtttcg acataaactg	77160
ctgaccctct catagtgtct ccactatttt gcggcagcaa tccgtatccc tgcggtaacc	77220
tcgcctaccg aaatcgaact attcatttcc ggtttccagt ataccgcgc gccgcgccgt	77280
tgtcaacttt agtcccgata ataccggagg attacgcttg caggcacagc acgtttgcgg	77340
taagatatcc atatatcaat taaccacaac ttgcggaggc ggaacatgaa atttgcgaat	77400
aaaatgaaag tgttcgattt gaatatTTTT tccaaactgg aggaaaagcg cgcggaactc	77460
ctccggcggg gcatggaggt catcaacctt tcggtgggta cgcccgattt caggccggat	77520
gaccacgtaa tcgcggcgct gaaagaagcg gcgggcatag cgggtaactt caaatattcc	77580
cttgccgata tccccgaact gatccaggcg gtgatcgctt ggtacggccg ccgctacggc	77640
gtttcccttg agccgcggca ggtgatgtcc gtctatggta cgcaggaggg catggcgcac	77700
gtagcgctcc cgatctgcaa tcccggcgac cttgtgatcg cgccgaccc gtgctatccg	77760
gtgtttatgt ttggcccgcg gatggcggag gcggaaattt attatacgcc gctaaaaaag	77820
gaaaataatt ttctgattga ttttgacagc atccccgaag atgttgcccg gcgggcaaag	77880
atgatcgtcg tttcttatcc caataacccg gtgacggcgg tcgcggatta cgccttttat	77940
gaaaagctcg tctcatgggc aaaaaagtat ggcgtgatcg tgatacacga caacgcatat	78000
tccgagcttg tgatggacag cgaaccgggg atgtcgttcc ttgccgttcc gggagcgatg	78060
gatgtgggaa tcgagtttaa ttccctctcc aaatcctaca acctgaccgg gctgcggatc	78120
tcttttgcta tgggcaatac ggaaatcatc cgcaacttcc gctgcctgcg ttcacagatc	78180
gattatggca tttctttccc ggtgcaaaag gcggctattg cggcattaaa cgggccccag	78240
gatattcttg aacgcaaccg caagggatac cgcgagcgca gggacgcgct gtgcggcggc	78300
ctgcggagca tcggctggga cgttcccgat tccccgggta ccatgttcgt atgggcgccg	78360
ctgccaaagg gctatgaaaa gtcgtgggag ttcgcgcttg agctaattga taaaacggga	78420
gtgatctgca cgcccggcga aagctttggc cctgctggcg aagggttcgt gcggcttgca	78480
ctggtggcag atgtgccac catcgagcgt gcggtgtgcc tgatccgtga aagcggaatg	78540
atccgatgag ttatggatgg ctcggcggtt atttgctcca gaaagcgggc gtgaccacag	78600
actaccaacc cgaatggcaa gccacccgtt atttcgtagg cgaaaaatg tttgccatgc	78660
aaggcggcga caggaacaaa agacctattt ttacgatgaa actcgagcct tcgctggggg	78720

BT.LABNUT.020.WO - seqlisting

atttcctgcg aaggcagtat cccggcgcgg tcgttcccgg ctattatatg aataaggtgc	78780
attggaattc gctgtacctt gaaagccgcg tccccgaaga aactgtgcgc gaaatggcag	78840
ataaagcgta tgaagccggc ctttgcgcat tatcgaaaaa aaaacggagc gagatcgaaa	78900
acgggaagga atagaatatg ctgatcgatt ttgaacaact ggacgaaacg gagatcaaaa	78960
acttctatgg cggcacgcaa tccacttatg cgcggatggt tgccggacgaa agcaaccgta	79020
tcatgcgcgg acggcttgcg cccggcgcgt cgatcgggtcc gcacacccat gaaacgggca	79080
gtgaaattat tttcatcctt tcgggaacag gaaaggcggt ttgcggcgga gccacggaag	79140
ccctgacgcc cggatatgtgc cactattgcc cgaagggaca tacgcacagc cttacggcgg	79200
acggcgccga ggcgttggtc ttttttgtag tcgtcccga gcaataacaa gcaaaagagg	79260
cgcttccgcg cctctttttt tgtctttttt ccgcgtgtga atccgttatg ccggcatcag	79320
gctgccgccg cccgcgaggg cgattgtctg tgcgccgagc cattcgtttc ctgccgcgtc	79380
cgcatcgtaa tacaggttat gccctccgct cacaatatct gcgcacgtct cgtccgcatt	79440
tgtgaggacc gtcacatagc tgtctccggt cagcgtccat gcgctgtccg catcgaggga	79500
taccgccgcc gcctgcgcgg tgttctccgt gttgaccgcg cctgtaaagg tgctgccctg	79560
cgtaaagtga agcgcaaagg tgctgatctc gtcgcacgtc acgtcgcctt caaaaacctg	79620
gtttataccc gtcagggtaa actgcccgcc atttgagccg ggctgcccc agttatttgt	79680
ctcgttgccc gccacattcg caaggacgcc gcttgtgaag acgagttccg tattttcaaa	79740
gaacgcctcc gcctgcgtat tggtcacata gatcatcggg ccgtccgacg tcgtcgtgag	79800
cctgctgtcc gccgcttcaa agcgtgcggt cccctctgcc gcgtcgccgg aggtgctctg	79860
atagagcatg ataccgtttt ccccgcccc ggtgaggtcc gtatccgtca tggatgatgga	79920
gttcttttct tccaccactg ccgcctggct gcctgccgcc gttcccgtga ggctattttac	79980
cgtgatgtcc cccgtcgaat agatgcatgg gctgccgtcg cccgccgca agaccgttcc	80040
ggtgtttacc gtgatggttc cttcgccgcg gtctgtagcg atgggcgcac aatgcgcacc	80100
ttgcgtcgta atatctacat ttgtggcggt gaccgttccg ccataggtgg cgtcaaggcc	80160
gcgggaggaa ttcccggtcg tatggatggt gacgttatcc gccgtgaccg tggagtcctc	80220
acccgttgca aagatggcgt tcgagccttc cgccgaggaa gtcaataaccg tatccgaaat	80280
ctcggctgtg ctgccgcctg ccgccgcgaa tacggcgttt accgcataaa aattactttc	80340

BT.LABNUT.020.WO - seqlisting

atccgtactc gacgtatcgc ccgttttatc gagcgtccca ttttcgagga tcaggctgcc	80400
gccgtttttt acgagtacgg tatttttcgtc tgcagacgag gaagcaattt cttcgccgtc	80460
cgagggtccc ctggtgccgt ccaccgtaaa tacgcccga agctcgatac ttcccgtctc	80520
cgagccgctc aaatccccgc cggggccgcc cgcgccgcc gcatttataa tctcaagggt	80580
cgtgggaaca aaggattcgc tttcgcccga tccttccatc ttaacaaccg taccttccgt	80640
aaggccggcg ggcgacgcct ctgtctcgct gccgccgtcc tgttttgtga tggtgaccgc	80700
agtaaggctc acggtgattt ccgttccgtc ttcattccgc gtaaagccgc ccgccccgcc	80760
ggggccgcct tcgcccagat cagggtggtgt gccgccgttt cctgcgtctt cggacggcgc	80820
ttcaccgctt ggcatatccg gcgcctcccc cgacggcatt tctccgcttt ccagatcggg	80880
cggtgtgccg ccactcattc cgcctgtcac cgtcccagg gcaatcgctc cttcattccc	80940
gcttaccgcg gttaccttcc catatatcgc gtcattcctga acctgcgcgc ccgtttcctc	81000
cgccggggca gcggacgaag tctccgccgc ctgctgcga caggcggtaa accccatcgc	81060
cagaaccgcg cacagcagga ccgttaatat ttttttcata ccagttgttg ctcctttctt	81120
ggtctggtcc cattatggaa gcgtaacgtg aaggctgtgt ggtgaaagga tgaaaaatct	81180
gtaaacgcca aaaaacgccc gcggggaaat tccccgtggg cgttttgcgc ataatttacc	81240
attcttccgt atacatatgg atcggatagg agaggatttc cagcggatca agctggtcga	81300
ccgtcacata tcctgccggt gcgttcagga ttgtcggaat acggttcaca acggtcgcgc	81360
aggtgtgctc cactgtcgct ggtttgacca cgtgaaactc cgtatcaggt tcgccgacaa	81420
tcttccagtc gcacatatcg ccgtcgtccg gcccgatac cttgccata cactgggtct	81480
cgatcaccgg gccctggtgc gtctgcgtcg tgacgaccgc gtcattccg atacagttgc	81540
ccttcgggat cgtctccccg gtggtttcag aatacaggtc tttaccgtaa aaatacggta	81600
cgctcttttg cgtctgggat ttgatcgtcc agcccatttt ggcgcacagc gcctcgttgg	81660
aattccacac ataactcgggt tcgagaactt ccgggtgggc cagttgcttt tcaaattctt	81720
ccggtgtgag tcctacgccg tgcgcctgcg cgagcgcgag tccgtaatcc tccacgttat	81780
agctgaccgc tccttcgatg cggctctatag tatggacgcc gcccgcaacg cccgcgatca	81840
tgttcaccca atagatatcc tgcattcccc agcccacaat agtgcagccc gtttccttgg	81900
cgaggacgtc cagcttattc gtaagggcgg gcgaggtcgt ccacggatag atcgcttctt	81960

BT.LABNUT.020.WO - seqlisting

cacatgtcgt cactacgttg atgccgcgcg cggcgcattht ttcgatatgc ggatacatat	82020
cgtccatgaa gctgaacagt gtaagaaccg caatatccgc atcacattcg tctaggacag	82080
catccgcgtc actgcggatc ggaacgccga ggcgcacgcc aaggcctgcc cattccccta	82140
cgtccatgcc aacgatgtct ggattcacat cgaccgcgcc cacgatatcc gcgcccttct	82200
catacaaata ccgaaccgta tactttgcca tttttccgca gccatattgt acggcacgaa	82260
ttttttgctg atacatattt tctccctctt ttcaaaaatt tccaccgatg tccgcttggtg	82320
ttgttttccc cctggatact atcaatatac cacccataag acacctcaaa ctttttttta	82380
atcaaaaagcg cccggcgagg tgcggggcg ctgcttttca ctttagctgg aactgcggat	82440
cgcttcaagc ggactcatct tcgttgccct ccatgcagga taaatgccgg acacaatgcc	82500
gacgcctacg gcgatcgcaa tcgcgccgag gctgagccac cacgggatgg aaagctgtac	82560
cccgttctgg aaatacatgc cgaggaagct gatctcgctg ccgccgaaat ttgcggccgc	82620
gccgaagata tagctgacct cgaggccgat cagccctcct ataaggccga tcattgccgc	82680
ctccacgagg aacatcaggt tgatcttgcg aatggaaagg ccgataacct tcattacgcc	82740
gatctcccg ccccgttcaa ggatgctcgc gagcatggta ttggcgatac cgatcgccga	82800
taccagcagg gagatgaggc cgatggcgat gagctgcgac tgctggcgcg cctgttcctc	82860
ctgcatctgg gtgatccatt cgggtggggct gtaggcctgg aatcccattt ccttgaccgc	82920
cttgaggatg tcttccaccg cgtcaacatc caccgcgttc acatagccct gcgaatattg	82980
tccttctttg attcctgcct ggtccatcag cttgcggttt tcgcggataa gcatattggc	83040
ggcgggaata ctcatataga tattatagct ctctgactg tccgactgct taagaatgcc	83100
cgtaattttt ccgcggtatt ccttgggcgc cggctggtca ggggtggatg ggtctggatt	83160
ttcgatcagg tatccgctgc ccgggtaata cttcacgttc gtccctacct agtctacatc	83220
cggccccggc ggcttctggt attcgccgtc gtcggccacg gcgaccgct agccgccagc	83280
catcatcacg ccgcccata tgctccgga ggcattcggg tcctggaaat actgccgggc	83340
gttcgcgccc acgataagct ccacgttagg gctgtccgag aagacatttc cctccatgaa	83400
tttaaaatcc atagtttgcg ggtcaaccgc ataaatatag gtatccgcct tatattttcc	83460
catcacaata tacgagggga tgctcatcag gccgctcgcg tttttcacc ccggaatggc	83520
ccgtatctgg ttcagcttgg catccgtaag cttggcgttt tccccgagc ccatggggga	83580

BT.LABNUT.020.WO - seqlisting

tatctcgatc cgcgtaaggt ccgtactctg catgatgctc tggttgaact gctcaaggtt	83640
cccgagaccg agcgccacca tgataacaat gcacgccgtt ccgataatca cgccgaggac	83700
ggtcagtatg gtccgcatct tgcgccgcca cagattggat gccgcaagaa gaacaatatc	83760
aataaatgtc atcgtcttcg aggtcctccg aaagctcctg cgcgcgtttt tttcttttcc	83820
tttttaccac aattacaatg gccacggctg ccgcagcgcc tgcggtgatc cccagcccc	83880
accacgggaa acctgctggc tcctccggcg ggagctcttc gccgggatcc atgccgcat	83940
aatccggcat aggcgtgagg actgtttcaa ccggcacctt catctcgtat tcttcgccgt	84000
actcgtcttc ataagtacg acaaaatttc cttccaccgg accgggctgg acggcatctt	84060
ccgcgcctgc gccgcctaca gcctgcaccg tgccgctttc ccccgataca acaatcgagt	84120
ccggtccatc cgcaccgccg gttattgcmc cgtccgccgc gggagccact tcggcattcc	84180
cggtttccgc gccgctcatg ccgcccattc ccgcattcgg gtcctgggca acggacgcat	84240
agatatccgc cgtcttcgcc gtgccggatt ccatatttcc aagaaaagcg ctcgattccg	84300
gcgtaagacc gggaacgtca agcacgaccg ttacattata aagggtgttt tttcccttgt	84360
tgtataaatt gaggctcgcg gaggtggat cgcccatata gacttccgat gggaatttcg	84420
gcggatcata ttcaagacgg atcttctggg gcacctccac gctgatctca tccgccgccg	84480
taagctgcmc cgcctggctg tcttcgtagg cgatggcgat atcgatcttc tgcggccccg	84540
ctttggcgtc ggcgcgcgct tccatcgtga agctgaaatc cgccgttttc ttcgggcccga	84600
tcttttcaat atacgccgta ttggatttgt cgccgggcat cagatcggtc gtctggcttt	84660
tgaaggtagc tgtgatgttt ttgacgctcg tcgatttgct cgtgttggtg agcgtcacct	84720
ttacggtaaa cttttcacc gcgttgaccg gatcgggact gatctcgtaa ttgctgatga	84780
tgaccttggg ctgagaactc actccgctcc cccgccacc gccgcccgcg ccgggatcga	84840
tccccgggtc tgttcccggg tctgttcccg ggtcttccgt cggctgaccg gacggctccc	84900
cacttggttc ggccgtcggc tcagaggggt cttgccgctc cgttaccttg acgaataccg	84960
taaactcctg cgttttaaca gtgccgtcca taagcgggta tttcgcggtg acgacaaccg	85020
gatagttccc attcacctg ttttccgaa gcggcaggct gaggtccacc aaataagact	85080
cctttgtttt cccgtcggcc agcttatttt ccttaaggga tacggccgta tcgtaattat	85140
tgaatataaa gggagcggct ttgggatcmc cgaggccaac cgaaatattg acctgttccc	85200

BT.LABNUT.020.WO - seqlisting

cattttttcac ctgttctgtt cccggggccgg ggaccagcgg aaggagaatg cgcgccgttc	85260
ccccggatac ggcggggcta tatccctcct gataggaggc gttcatgccc ccgtattgac	85320
ttttgccgtc gatccggagc gccgttccgc gcatatccgc agcaaatacg gttggcagcg	85380
caaacgaaaa cgcgagtata acgatgagtg cgataattgt gatccgtttc ttcatttttc	85440
ctctccctgt attcctaatt ccgcctgtat gatctcttcg gtacttattt cggcagggtcc	85500
gtgcgtttcg cgtttcgcca ctttcccgtc tatgatatga ataacctggt cggcatattc	85560
cgccctggct ggatcgtgcg tcacgaacag gagggtcgcg ccgcgttttt ttgcctgtcc	85620
gcacataatg tccataatct gttccgcggc caccgaatcg aggttgcccg tcggttcgtc	85680
cgcaaagata atctccggct ttgcgataat ggcgcgcgcg atcgatacgc gttgctgctg	85740
gccgcctgac agctggtttg gaagattttt aagctgctgc ctgaggccca tttccacaag	85800
cagttttttt gccgcttcca tgcgcctggc gcgcggcacg ccccggaaca tcaagggcag	85860
cgccacgttt tccaccgccg tcatggtggg catcaggttg aacgattgga agacgaagcc	85920
gatatgcttc aaacggaaat ccaccaattc gctttcattc attttataag tcggtttttt	85980
cttgataaaa atcctgcccc cggtcggatg ttcaagccct gcaagcaggg aaagcagcgt	86040
cgattttccg ctgccccagg tgccgagaat cgcgcacacc tctccgggca tcacatcaat	86100
gtccacaccg tccagtgcac gtatttttgc actgcccacg cgggtatattt ttttcagatt	86160
cctggctgca atgatcgggt ccaaagactt cctccaaaaa tggcgtcttt cgggcataaa	86220
aaagccctgc acgaagtga ggggaaacgg caaagatccc acccctaacc tacgtctttc	86280
attatagcat aaagaatctt tccgttgggc ggcactttat gaataaattc ttacaaataa	86340
tatggttttt taaaaattat tatcgggacg gcggaaggcc gcgaaccgtc ctccgcagaa	86400
tatagagaag ggaaacgcgg atgcgtttcc cttctctaata tttatagtcc tgcggtttcc	86460
gttctaagta tacggcaggc tcggttctca agcgaacggc gctgtttcag ccctcgatga	86520
tcttgacgaa cgattggtac tgcgcagccc attccgccgt atcccggggg gtatacgtct	86580
tcggcgcaca ggacgcggcc accacgcggc gcgcctcttt gatgtccttg atttcacccg	86640
cggcaatgag ctgtactacg atgttaccaa gcccggttgc ctctgcccgt ccggcaatta	86700
cggtcatgcc tgtcgcattg gccgtcatct ggcacagaag cgcgctcttt gtgccgcccc	86760
caaggatatg caccgtaccg tatttttttgc ccgtgcattc cgcgaggcgt ttgatgctgt	86820

BT.LABNUT.020.WO - seqlisting

aatgaaactt catggccagg ctttcgtcga tgcagcggat gatttcgcct tccgtctgcg	86880
gaacaggctg ccccgctctt tcgcagtagg cgcggatacg cctgggcagg tttccaggct	86940
ttccaaattc cgggctgtcc acatcgatca ggctacggaa cggcgtgcat tctttcgcca	87000
tctgctccag ctctccaaag ccgaactcct tgccctcgcg gatccactgg cggcgggact	87060
cctggatcgg ccacgtaccc attatatatt tcaggaaacg gtaagtgcct tccacccgcg	87120
cctcgttcgc gaagttgtat cccgctgcct tttcgttgat gcagggttcg tgcagctcgg	87180
tgccaagcag gtcctatgta ccgcagctga tgaaaataaa atcatcttcc tgcgtggggg	87240
tcgccgcgac cgccgccgca gtgtcgtggc cggcagtaca catcactttg gctttggggg	87300
cgccaagttc ttcgcagatg tcgtcgcgca gcaggccgca ctcggttccc ggctggacga	87360
tatcacataa tttttcgcgc agaatgcccg aaagctccag caccttttca ctccagtccc	87420
tgcttttcgc atccagcatt tcagatgtgg acgcaatggg gtattccgta tgcatttccc	87480
ccgtaaggaa atagttgtaa agatccggcg taaagagtat ttttttcgtc gccgccagaa	87540
gctcgggctt ctgctccttc aggtaaagca gttggtaaag cgtgttgatg gctagatgct	87600
gcaggccccg cgtctgatac agctcgtccg gatcaatccg cttcatgaat tcctcaaacg	87660
gctgttccga ccgcccgtcg cggtaatgaa cagggttctg gacaagctgg ccgtcttccc	87720
cgatcaagcc aaaatcgacg ccccatgtgt cgatgccgat catatcgaag cctcccgcaa	87780
gcgccgcctt gctgatgccc tgcttgatat tgtaaaacag gcgcagcgca tcccagaaaa	87840
gcgtcccgtt cagcgaaacc ggatcattgg tgaagcggg gagttcttcc attgtaattt	87900
ttccatccgc atactgggcg atcattgcac ggccgctgga agcgccgaaa tcgaatgcta	87960
aaattctgct catgctcttt cccctttact atttctatta tattaactat actgaaaata	88020
agaatcggaa tcaatgaaga aaacaacaaa tttttgtaaa ttttcaacac tctttgtttg	88080
gatatgcggg tttttgtttt ttcccggaa tgatgtcacg tttcgtttgt gagataataa	88140
aaatataatc atcaccagc ctgagaggac ggaggaaaga tcatggacta tgtaaagctc	88200
ggcagaacgg atctgaagat aagccggatg gtaatgggcg gagacgtgcg cacacccgcg	88260
gaggaatttg ccgccgcgt gcagcttgcg gtggatcatg gcgtgaacct catcgatacc	88320
gcgcccgcct acgggaacag cgaggaggtc cttggcacga ttctcccgga gatcaggggc	88380
gagttgtttg tatctactaa attcagcaac gacccgcagc cttttttgcc gcaggaccgg	88440

BT.LABNUT.020.WO - seqlisting

gactgcctga tgcgtgccgt ggaaaacagc ctctcccgt tgaacgcga taagatcgat	88500
atctggatgg tgcattgagc cgaccgtccg tatcaatacg actggtggga acgcccgcag	88560
gaccttaatc atcctgaagc gtattatggg ccggtcatgg atgtgctgtc cgacctgaaa	88620
agccaaggcg ttatcaaata tacgggcatc ggcgggacga cggcatatga gatcgtgccg	88680
atcatcgaaa gcggcttttt cgatgtgata ctgactgcct tcaactacag ctttttgtgg	88740
caggaggcgg ccatcgaggt aatccccgcg gcgaaaaagc agaatatggg gattttgctt	88800
ggctccgcgc tccagcaggg cgcgctcgcg aagcgctacg acgaacaggt aagggcaaag	88860
ccggcatggc tttcaaagcc ccgccagcag caatacctga aattatacga gctgtgcgac	88920
gatttgaaga tcgatatcgc agaccttgcg atgcggtttg ctttttcaaa tccggatatt	88980
cacgccgtcg taacgggctc gggcaagggt aagaatgtgc agcggaacct tgagtcgtac	89040
cacaggggccc cgctgccgca ggatgtgctc aggcgtatcg gtgaaattta ccggatggta	89100
cccttccgcc cattcgagga atcgtttttc atgcccttta cgcgccccta taaagggccg	89160
cgggcgggtgc actgaacggc ttcggctttc cgcacatccg ccaaataatt tttgtattaa	89220
aaaaggacag gcaaccgccc gtcctttttt gatcccggtt tttttcttct tcagctcgtc	89280
gtccgtaatc tgcaggctcc tgcgtacgat cttcttggaaggaaacttgt ccgcgcgttt	89340
ttccacaatg cgttcaaagc ccgcgcatcat gaacggcgcg accgccgtga aaacacacac	89400
tacaacggcc tgcggaaggc tgattggcgc cacatcgaaa aagcccctga ggaaaatgat	89460
gcacaggatg aacaggccaa tggcgctgcc gaggatcacc ttgcgcgccg tggtaaacgg	89520
catgctgacc ttagctacca cccacatacc gaccgcaacc gccatgagca tgcacatcgt	89580
ggagaccgcc gccggggtgt attggaagat tcccgcaagc acgttgaccg caaggattcc	89640
gataataacg gaaagccctc cgggcaatga tttttttaaa atattaatca ggaaatgctc	89700
cttgatcggc gcaaaattcg gctccaaagc aaggaaaaac gccgggaagc caatggtcac	89760
aaaactgatt agcgtcatct gcaggggct aaacggataa ctgctgtcga gcaggattac	89820
cgctcggaac gcaaggagca ccgcatacac cgttttggtataaaacagag tggccacgcg	89880
ttctatgttg ttgattacct tgcgcccttc atttacaata tcgggcatcg tcgcaaaatt	89940
agaatcgagc agcacaaggt tggcgatatt tttagccgcg tcgctgcccg acgcatagc	90000
aatgctgcaa tcggattcct tcagggccag cacgtcgttt acgccgtcgc ccgcatggc	90060

BT.LABNUT.020.WO - seqlisting

gaccgtatga cccttgcggtt tcagcgcggc aatcaattcc tttttctggg aaggcggttac	90120
ccgccccaaac acgctgtact tttcggcagc cgcctcaata tcctccttcg ttttgagcag	90180
ggtggcatcc accgcttcat aattttttac gcccgcgcgt ttggcgatcg cgccggccgt	90240
gaccggactg tccccggata tgatcttaag ctctacctgc tgcttctcaa aaaattcaag	90300
cgtctttttc gcatccgcc gaatccggtc ggaaatgagc aggaacgcga tggggcgcat	90360
tccccggggg accttggtat ccagcacgtc ggtggcgctc ctgtgcgcaa gcaccagcac	90420
ccggcttcct tgtttcgcgt atttttccgc gtcgaggccc gcatacccgt tgggaaaaat	90480
aaactcgaag gccccgagga aataggtccc ttccccttca aagcttacgc cgctgtattt	90540
acgcgccgaa gaaaatggca cgatggtttt tacttcatgg tcaaagctct tgccgaattt	90600
ttccactacg gcatggaaag tcgcgttatc gtcctgaagc gtcctcgcca tattggagag	90660
gatcctgtcc aagtcttttg cagcgcctac gggaatgact tcctccacat gcatctttcc	90720
ctcggtgatc gttcccgctt tgtcaaggca caggatatct acacgcgcga gcgtctcgat	90780
gcagtagagg tcctgcacaa gcgtctgctt tgtcgcgagg atcacggcgc tggttgcaag	90840
ggaaatactg gtgagcagga taaggccttc agggatcatg ccaataaggg cccccaccgt	90900
tttgaccgta ttatccggta tgggcaggcc caccacaagc ccctgtttca gaaacagcag	90960
aatacccacc ggcacgatga tgatgctgat aattttaagg atgcggttga gggaattgcg	91020
cagctcggac gtacgctttt tagatgcctt cgcatcatag gaaattttat ttgcatagtt	91080
ttcaattccc acgcgctcca cacgcgcgta agcgttgccc gatacgataa agctgcccga	91140
ataaagaaag tcgcccgggc ctttgggcac aacgtcggat tcgcccgtaa tcagggactc	91200
gttgacctcc accgatcctt caagcatcac cccgtccgca catacctggt tgccgggccg	91260
aagctgcatc acatcgtcaa ggacgatatc cgcaacgccg atctcctttt cggctccgtt	91320
ccgtaccacc gtgaccttgg ccgccacgat caccgagagc ttatcgagcg ttttcttgggt	91380
tacgatctcc tgtgcaatcc caatgacaag gttccccacg acaacgagca ggaaaacaag	91440
ttccttgatg tagcccgta tcacgataag gaccgtgaac accatattca gtatattaaa	91500
aaaggttaca aggttatcct taaaaatctg ccggtacgat tttgtcgtat tcgtattata	91560
cgcatthtg agaccgcac caatacggct tttgacctgt ccgtccgtaa gccccgtgcg	91620
gcagtccgaa tcatagcgct gttgcccgtc gtccatgtcg ttccttcccc gtcattacat	91680

BT.LABNUT.020.WO - seqlisting

agtgacttta ttatatcata tttaccctat gctccaatga ttatccgcca aaatttataa	91740
attcctaaca aaaacgacgg atttcttcat ccgccgtttc aaaagtctta agaatttcct	91800
tatttcgtga ggaaccggta ttccgttacg tcgtggtagg tctttccctt ctgcaggatg	91860
caggaaggaa attcatcgtg gtgcacgctg tccgggaaaa gctgcgtctc aaagcaatag	91920
gccgtacgcg ggccgtattg cactccgttc ttccccttca tctccggcac gaagttcgcc	91980
gtatagagct gcatgcccgg tttgtccgta tagacctcca tcacgcggcc gctctgcggg	92040
tcttcaaccc gcgccgcacg ccggaagccc gcgccccaca aaacaaagtt gtggtcgtat	92100
ccccgcaca gttcatctg cgggaatgga tcttcgatcc gctcgccgat caggtgcgga	92160
tgcgtgaaat cgagcggagt gcccgaacc tcggcaatct ctcccgtggg gatcaggttg	92220
ccgtccaccg gcgtatatcc cccggcgtcg atggtcagca catggtcgct gatctcgccc	92280
tcccccgca gggtgaaata agaattgatt gtgagggaca atatgggtgtc ctcatccgat	92340
tctgcaaaat attcgaggcg cactgcatta tcgtccgtaa gggtcatttc aatgcgcaca	92400
tccaccgcg ccgggaagcc gccttccccg tccggactgt gataggaaag ggtcagcata	92460
ttgccgtctg ccgtaccgtc ccacaccttg cggttaaagc tgttgtctcc tccatgaaga	92520
agatttaccg cgttttcgtt gcacgggatg gcgtaatcct ttccgcccac cgtgaaccgg	92580
ccgtttgcga tccggttggc ataccgcccg actggtgcgc caaaaaaggg atggccgcca	92640
aaatactcct ccggcggttc aaagccgagc actacatccg ccctattgcc gtctgcgtcc	92700
ggcatttcga ccgacataat cgtcccgcca taattcgtga cttcatgca tccgccggct	92760
tcactgaaa atgtataaac aaaaatatcc ttaccgtctt tactgccagt tttttgagtt	92820
tcaatcatga tctttaccgc ctttttgatt tgctattatt attctacatc aaaagcggct	92880
tttttcctat ccgttatcaa tcaatttttt gtgaaatttt cttttgcaat atgaaggagg	92940
tgtgctataa tagttagcag tggaggcata gctcagttgg tcagagtacc tgcttcacat	93000
gtaggg	93006

<210> 2

<211> 978

<212> DNA

<213> Christensenella minuta

<220>

BT.LABNUT.020.WO - seqlisting

<223> CP029256.1:1933575-1934552 BSH gene

<400> 2

atgtgtacag caataacgta ttatacaaag gatcactatt ttggaagaaa tctggatctg	60
gaatttttctt ataatgaaac agtaacgggt acacccaaat attatccgtt tcatttttctg	120
aatggaaaag tgctcaatca tcattatgca atgataggga tggcttatat agttgatgac	180
tttccgcttt actacgatgc aacaaatgaa aagggtctca gtatggcagg actgaacttc	240
ccggataatg cggactataa agaagtgaag gaaggatacg ataattatgc tccctttgaa	300
tttattccat ggatactcgg tcaatgtgca agtgtgagt aagcaagaat tctcttagaa	360
cagattaact tggtaaattt gaactttagt gaagagctgc cgctttctcc attacattgg	420
atgattttctg accagcgaga ttccattgta gtagaatcaa caaaagatgg tttgaaagtt	480
ttcgaaaacc ctgtaggagt tctgacaaat aatcctacct ttgactatca gatgtttaat	540
ctcaataatt atatgcattt atcgaaagaa cccctgcaa atacatttgc tgccgaattg	600
gaacttgaac agtatagccg gggtatgggg gcgataggcc ttcccggaga tttatcatcc	660
gcttcgagat tcgtgaaagc agcgtttaca aagatgaact cggtttccgg tgattcggaa	720
tcggaaagta tcagccagtt ttttcacatt cttggctcgg tagagcagca acgaggctgc	780
gtacatcttg gtgaagataa atatgaaata acaatttatt cttcctgctg taacatggac	840
aagggaattt attactatac aacttatgaa aacaaccaga tcacagcagt tgatatgtat	900
aaagaaaatc tggacggaaa cactataata agctatccgc ttatgaaaga acagcagatt	960
aactatcgga attactaa	978

<210> 3

<211> 129

<212> DNA

<213> Christensenella minuta

<400> 3

ctcgggtcaat gtgcaagtgt gagtgaagca agaattctct tagaacagat taacttggtg	60
aatttgaact ttagtgaaga gctgccgctt tctccattac attggatgat ttctgaccag	120
cgagattcc	129

<210> 4

<211> 121

BT.LABNUT.020.WO - seqlisting

<212> DNA

<213> Christensenella minuta

<400> 4

aagaaccccc tgcaaataca ttgctgccg aattggaact tgaacagtat agccggggta 60

tgggggcat aggccctccc ggagatttat catccgcttc gagattcgtg aaagcagcgt 120

t 121

<210> 5

<211> 86

<212> DNA

<213> Christensenella minuta

<400> 5

tgctcccttt gaatttattc catggatact cggatcaatgt gcaagtgtga gtgaagcaag 60

aattctctta gaacagatta acttgg 86

<210> 6

<211> 20

<212> DNA

<213> Christensenella minuta

<220>

<223> BSH_qPCR_F2

<400> 6

ctcggatcaat gtgcaagtgt 20

<210> 7

<211> 20

<212> DNA

<213> Christensenella minuta

<220>

<223> BSH_qPCR_R2

<400> 7

ggaatctcgc tggatcagaaa 20

<210> 8

<211> 20

<212> DNA

<213> Christensenella minuta

BT.LABNUT.020.WO - seqlisting

<220>

<223> BSH_qPCR_F3

<400> 8

aagaaccccc tgcaaataca

20

<210> 9

<211> 20

<212> DNA

<213> Christensenella minuta

<220>

<223> BSH_qPCR_R3

<400> 9

aacgctgctt tcacgaatct

20

<210> 10

<211> 21

<212> DNA

<213> Christensenella minuta

<220>

<223> BSH_qPCR_F6

<400> 10

tgctcccttt gaatttattc c

21

<210> 11

<211> 23

<212> DNA

<213> Christensenella minuta

<220>

<223> BSH_qPCR_R6

<400> 11

ccaagttaat ctgttctaag aga

23

<210> 12

<211> 26

<212> DNA

<213> Christensenella minuta

BT.LABNUT.020.WO - seqlisting

<220>

<223> BSH_qPCR_probe2

<400> 12

agtgaagagc tgccgctttc tccatt

26

<210> 13

<211> 27

<212> DNA

<213> Christensenella minuta

<220>

<223> BSH_qPCR_probe3

<400> 13

actgttcaag ttccaattcg gcagcaa

27

<210> 14

<211> 27

<212> DNA

<213> Christensenella minuta

<220>

<223> BSH_qPCR_probe6

<400> 14

cacacttgca cattgaccga gtatcca

27