

FIG. 1

16s rDNA sequence

```

AGAGTTTGATCTGGCTCAGGATGAACGCTGGCGGGTGCTTAACACATGCAAGTCCACGGGATCCATCATGCTTTGCTGGTGCTG
AGAGTGGCGAACGGGTGAGTAATGCGTGACCGACCTGCCCATACCGGAATAGCTCCTGGAACGGGTGTAATGCGGATGCT
CCAGTTGATCGCATGGTCTTCTGGGAAAGCTTTCGCGGTATGGGATGGGGTGGCGTCTATCAGCTTGACGGCGGGGTAAACGGCCCA
CCGTGGCTTCGACGGGTAGCGGGCTGAGAGGGCGACCGGCCACATTGGGACTGAGATACGGCGCCAGACTCTACGGGAGGCAGC
AGTGGGGAAATATTGCACAAATGGGGCGAAGCTTGATGCAAGCGACCGCGGTGAGGGATGGAGGCGCTTCGGGTGTAAACCTCTTTAT
CGGGGAGCAAGCGTGAGTGAGTTTACCGGTGAATAAGCACCGGCTAACTACGTGCCAGCAGCGCGGTAAACGTAGGGTGCAAG
CGTTATCCGGAATTATTGGCGTAAAGGGCTCGTAGGCGGTTGTCGCGTCCGGTGTGAAAGTCCATCGCTTAACGGTGGATCCGCG
CCGGGTACGGGCGGGTTTGAGTGGGTAGGGGAGACTGGAATTCCGGTGTAAACGGTGGAAATGTGTAGATATCGGGAAGAACACCA
ATGGCGAAGGCAGGTCTCTGGGCGTTACTGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCTGGTAGTCCA
CGCCGTAAACGGTGGATGCTGGATGTGGGGCCCGTTCCACGGTTCCGTGTGGGAGCTAACCGTTAAGCATCCCGCTGGGAGT
ACGGCCGCGCAAGGCTAAACCTCAAAGAAATTGACGGGGCGCGCACAAAGCGCGGAGCATGCGGATTAAATCGATGCAACGCGAAG
AACCTTACCTGGGCTTGACATGTTCCCGACGGTCTGAGAGATACGGCTTCCCTTGGGGCGGGTTCACAGGTGGTGATGGTCTGCT
CAGCTCGTGTGCTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCTCGGCCGCTGTTGCCAGCGGATTATGCGGGAACCTCAC
GGGGGACCGCGGGGTTAACTCGGAGGAAGGTGGGGATGACGTCAGATCATGATGCCCTTACGTCAGGGGCTTACGATGCTAC
AATGGCCGGTACAACGGGATGCGAGCGGGCGACCGGAGCGGATCCCTGAAAACCGGTCTCAGTTCGGATCGCAGTCTGCAACTCG
ACTGCGTAAGGCGGAGTGGTATGTAATCGCAATCAGCAACGTCGCGGTGAATGCGTTCGCGGGCTTGTACACACCGCCGCTCAA
GTATGAAAGTGGGCGAGCACCGAAGCGGTGGCTAACCCCTTGTGGGATGGAGCGGTCTAAGGTGAGGCTGTGATTGGGACTA
AGTCGTAACAGGTAGCGGTACCGAAGGTGCGGCTGGATCACTCCTT

```

Sequence distance

		Percent Identity								
		1	2	3	4	5	6	7	Divergence	
1		100	99.1	99.1	96.0	92.9	90.8	93.2		
2		0.5	100	98.8	95.8	93.4	90.6	93.7		
3		0.9	0.9	100	96.8	93.4	90.8	93.0		
4		3.0	3.1	2.3	100	92.9	91.4	93.1		
5		5.0	5.1	4.6	4.6	100	99.3	94.1		
6		6.7	7.0	6.9	6.3	7.6	100	99.9		
7		4.9	5.0	5.2	5.1	4.9	6.7	100		
		1	2	3	4	5	6	7		

1	<i>B. longum</i> BG1(KCTC 12208P)
2	<i>B. longum</i> (ATCC15707)
3	<i>B. infantis</i> (ATCC15697)
4	<i>B. breve</i> (ATCC15700)
5	<i>B. bifidum</i> (DSM 20456T)
6	<i>Bifidobacterium lactis</i> (DSM 10140)
7	<i>Bifidobacterium catenulatum</i> (KCTC 3221)

Phylogenetic tree

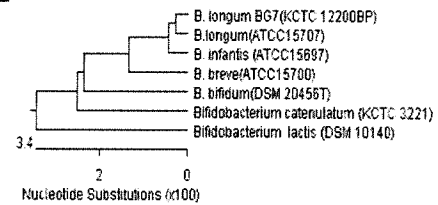


FIG. 2

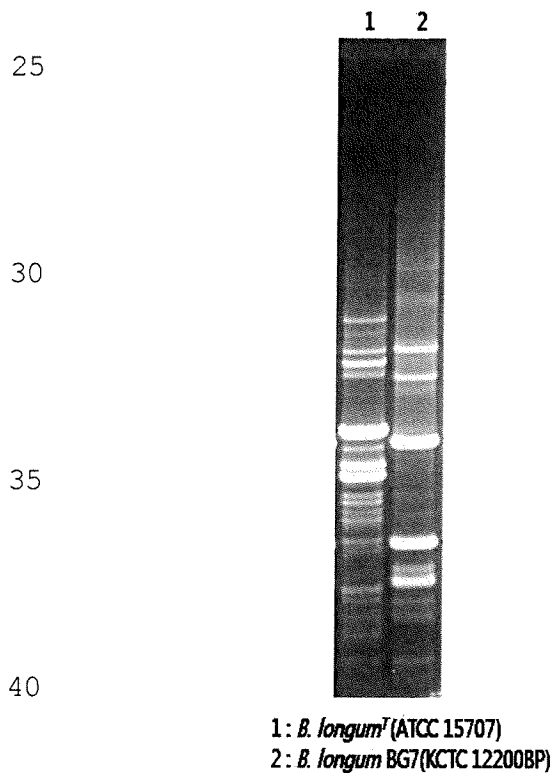


FIG. 3

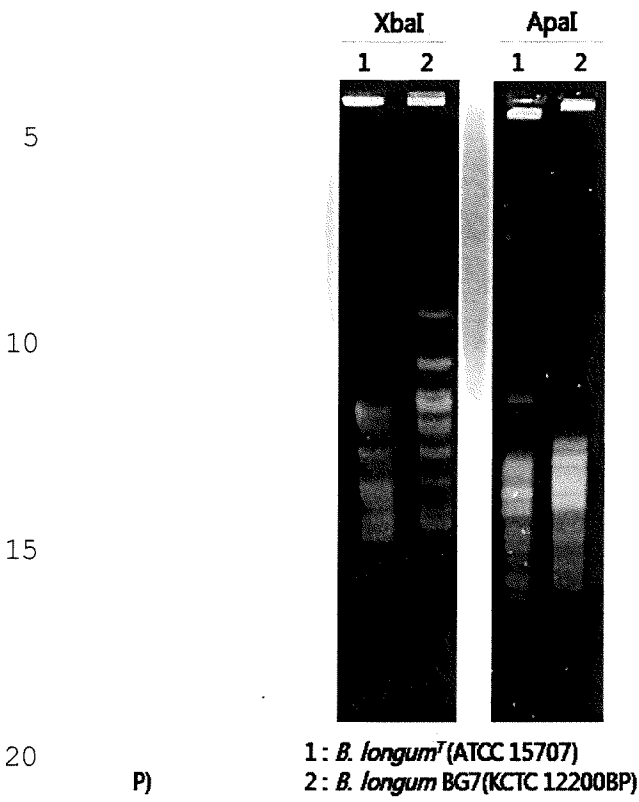


FIG. 4

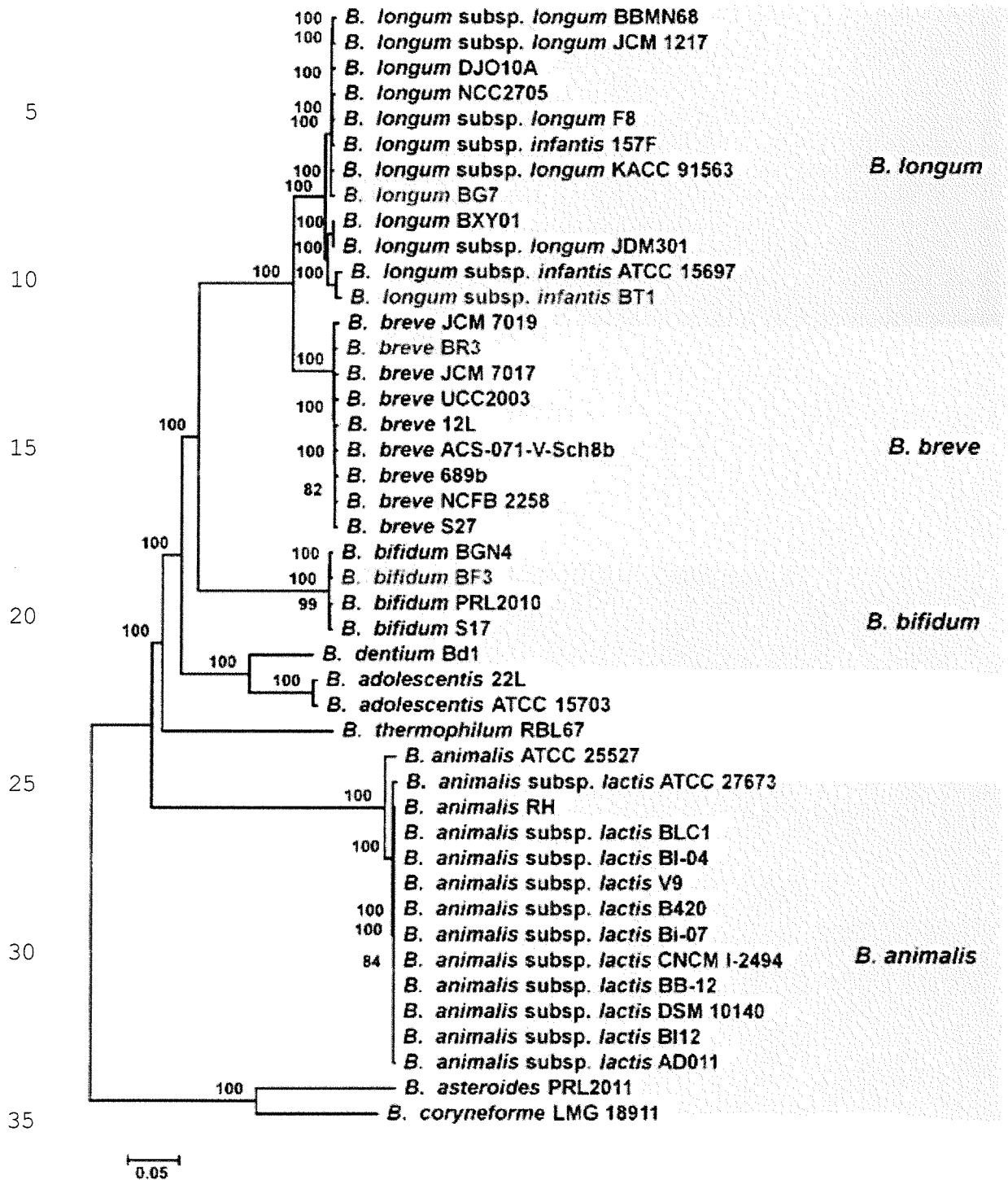


FIG. 5

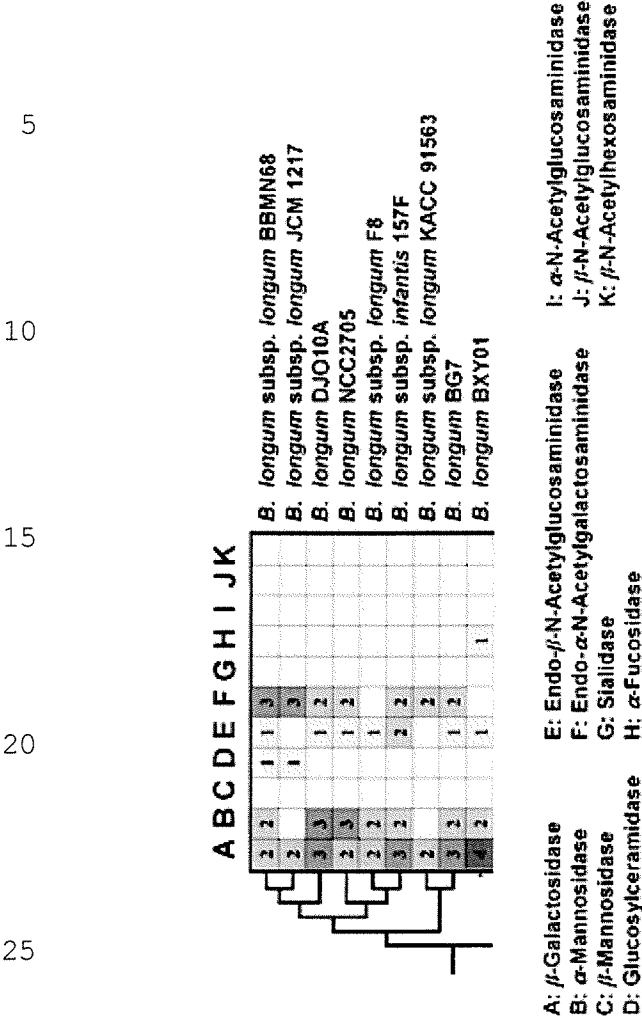


FIG. 6

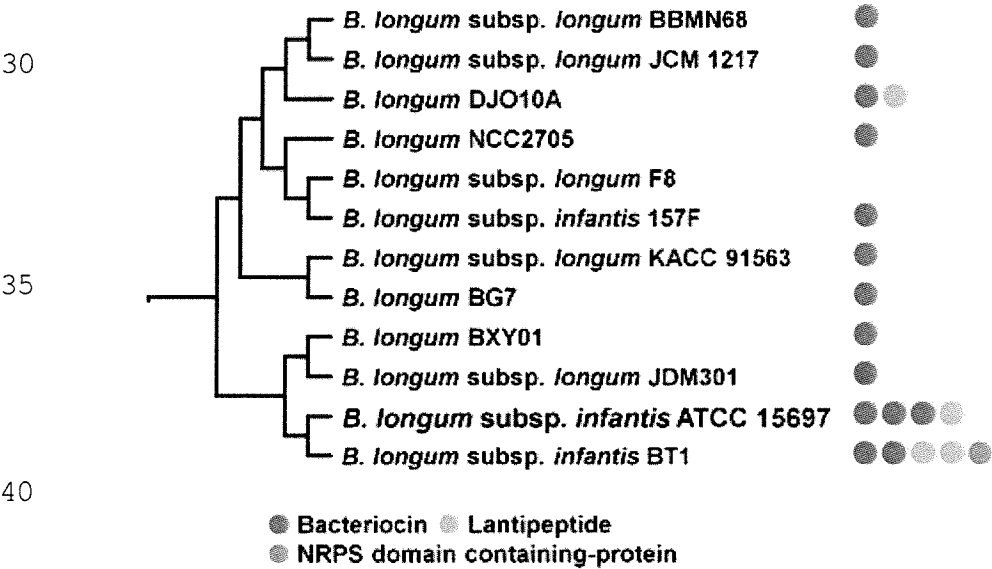


FIG. 7

