Sequence listing

<110> UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNG HEE UNIVERSITY
NAVIPHARM CO, LTD

<120> Novel lactic acid bacteria and use thereof

<130> SP101436SGA

<150> KR 10-2017-0013632
<151> 2017-01-31

<160> 30

<170> KoPatentIn 3.0

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<223> 16S rDNA of Bifidobacterium longum IM55

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accggttttc agggatccgc tccgcgtcgc cgcgtcgcat cccgttgtac cggccattgt 180

agcatgcgtg aagccctgga cgtaaggggc atgatgatct gacgtcatcc ccaccttcct 240

ccgagttaac cccggcggtc ccccgtgagt tcccggcata atccgctggc aacacggggc 300

gagggttgcg ctcgttgcgg gacttaaccc aacatctcac gacacgagct gacgacgacc 360

atgcaccacc tgtgaacccg ccccgaaggg aagccgtatc tctacgaccg tcgggaacat 420

gtcaagccca ggtaaggttc ttcgcgttgc atcgaattaa tccgcatgct ccgccgcttg 480

tgcgggcccc cgtcaatttc tttgagtttt agccttgcgg ccgtactccc caggcgggat 540

gcttaacgcg ttagctccga cacggaaccc gtggaacggg ccccacatcc agcatccacc 600

gtttacggcg tggactacca gggtatctaa tcctgttcgc tccccacgct ttcgctcctc 660

agcgtcagta acggcccaga gacctgcctt cgccattggt gttcttcccg atatctacac 720

attccaccgt tacaccggga attccagtct cccctaccgc actcaagccc gcccgtaccc 780

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ccattgtgca atattcccca ctgctgcctc ccgtaggagt ctgggccgta tctcagtccc 1080

aatgtggccg gtcgccctct caggccggct acccgtcgaa gccacggtgg gccgttaccc 1140

cgccgtcaag ctgataggac gcgaccccat cccataccgc gaaagctttc ccagaagacc 1200

atgcgatcaa ctggagcatc cggcattacc acccgtttcc aggagctatt ccggtgtatg 1260

gggcaggtcg gtcacgcatt actcacccgt tcgccactct caccaccaag caaagcccga 1320

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<223> 16S rDNA of Lactobacillus plantarum IM76

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cataacaact tggaccgcat ggtccgagct tgaaagatgg cttcggctat cacttttgga 180

tggtcccgcg gcgtattagc tagatggtgg ggtaacggct caccatggca atgatacgta 240

gccgacctga gagggtaatc ggccacattg ggactgagac acggcccaaa ctcctacggg 300

aggcagcagt agggaatctt ccacaatgga cgaaagtctg atggagcaac gccgcgtgag 360

tgaagaaggg tttcggctcg taaaactctg ttgttaaaga agaacatatc tgagagtaac 420

tgttcaggta ttgacggtat ttaaccagaa agccacggct aactacgtgc cagcagccgc 480

ggtaatacgt aggtggcaag cgttgtccgg gatttattgg gcgtaaagcg agcgcaggcg 540

gtttttttaag tctgatgtga aagccttcgg ctcaaccgaa gaagtgcatc ggaaactggg 600

aaacttgagt gcagaagagg acagtggaac tccatgtgta gcggtgaaat gcgtagatat 660

atggaagaac accagtggcg aaggcggctg tctggtctgt aactgacgct gaggctcgaa 720

agtatgggta gcaaacagga ttagataccc tggtagtcca taccgtaaac gatgaatgct 780

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gcatgtggtt taattcgaag ctacgcgaag aaccttacca ggtcttgaca tactatgcaa 960

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agctcgtgtc gtgagatgtt gggttaagtc ccgcaacgag cgcaaccctt attatcagtt 1080

gccagcatta agttgggcac tctggtgaga ctgccggtga caaaccggag gaaggtgggg 1140

atgacgtcaa atcatcatgc cccttatgac ctgggctaca cacgtgctac aatggatggt 1200

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<210> 4
<211> 19
<212> DNA
<213> Artificial Sequence

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<223> T-bet R primer

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<210> 5
<211> 24
<212> DNA
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<220>
<223> FN-gamma F primer

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<210> 6
<211> 21
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<223> FN-gamma R primer

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<210> 7
<211> 21
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<223> GATA3 F primer

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<210> 8
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<210> 9
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<223> IL-5 F primer

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<223> ROR gamma t F primer

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<210> 12
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<220>
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<210> 13
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<223> FOXp3 F primer

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<210> 16
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<210> 17
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<210> 24
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<220>
<223> Actinobacteria F primer

<400> 25
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<223> delta/gamma-proteobacteria F primer

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<220>
<223> delta/gamma-proteobacteria R primer

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<210> 29
<211> 19
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<220>
<223> TM7 F primer

<400> 29
gcaactcttt acgcccagt 19

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<220>
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