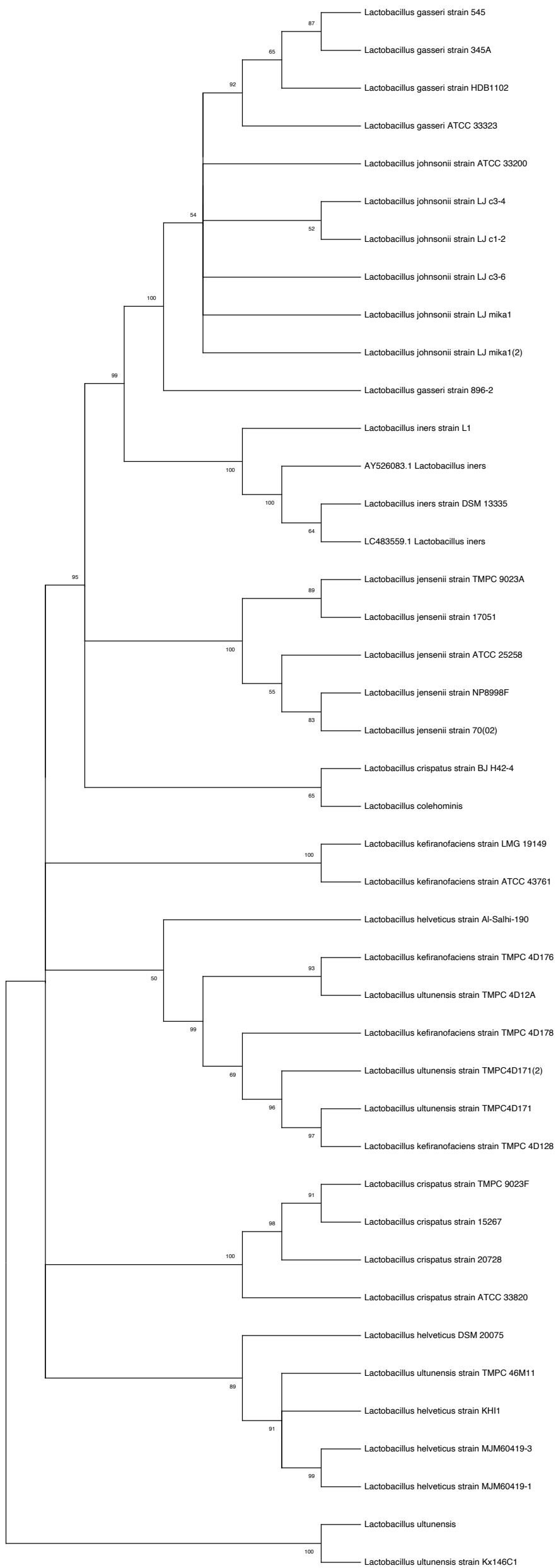
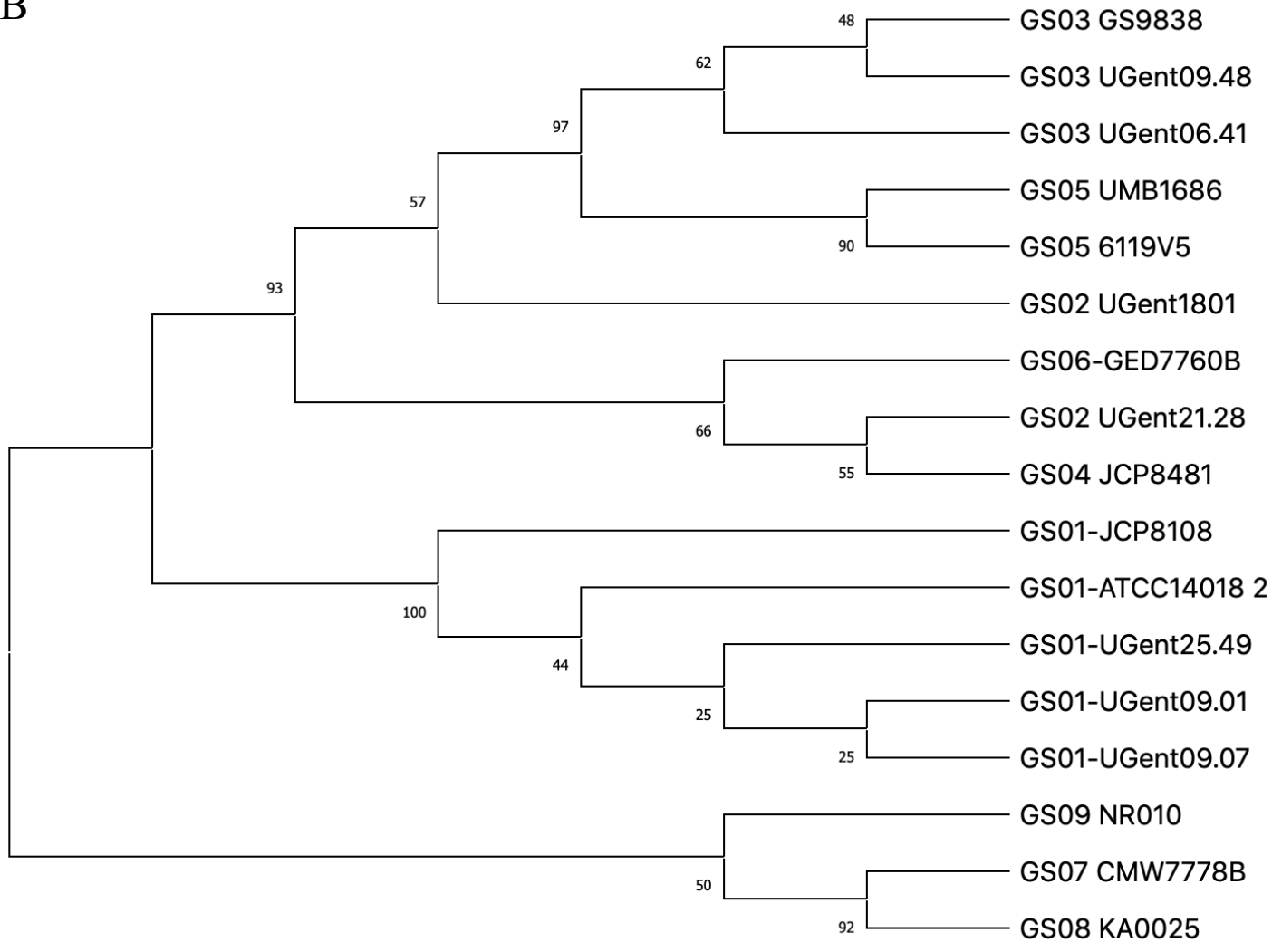


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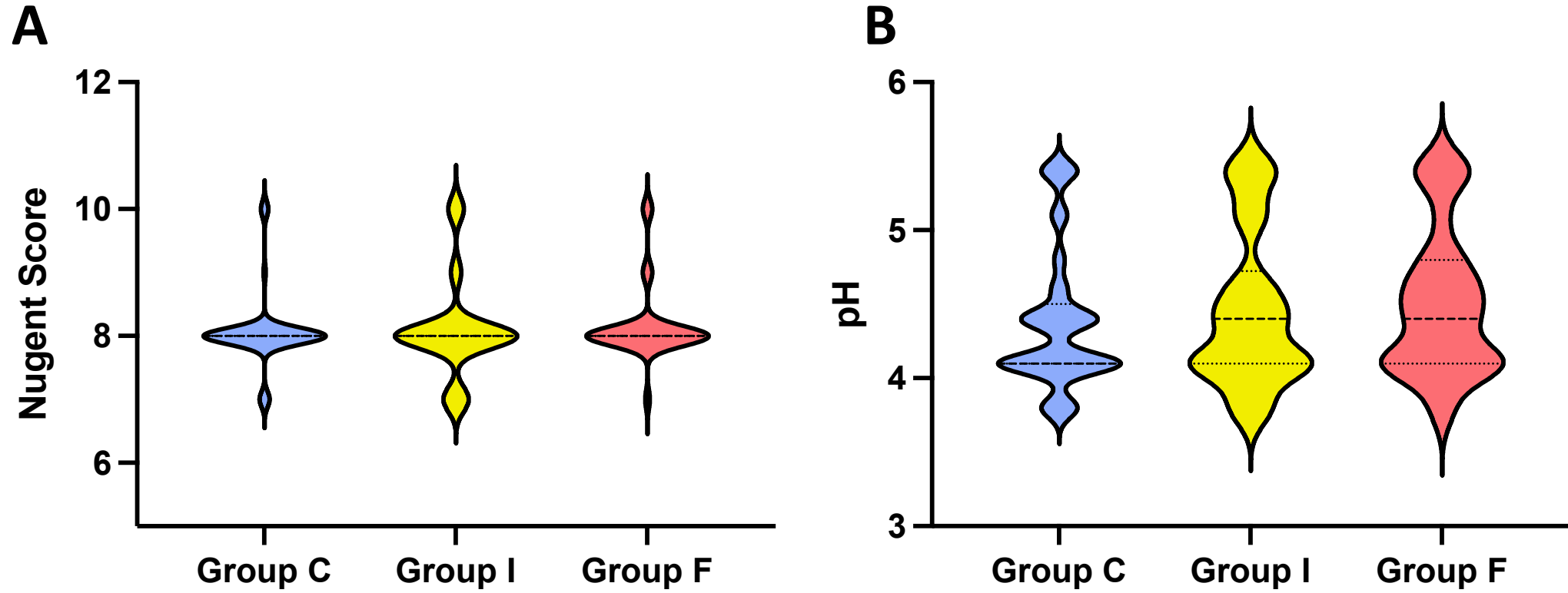


B



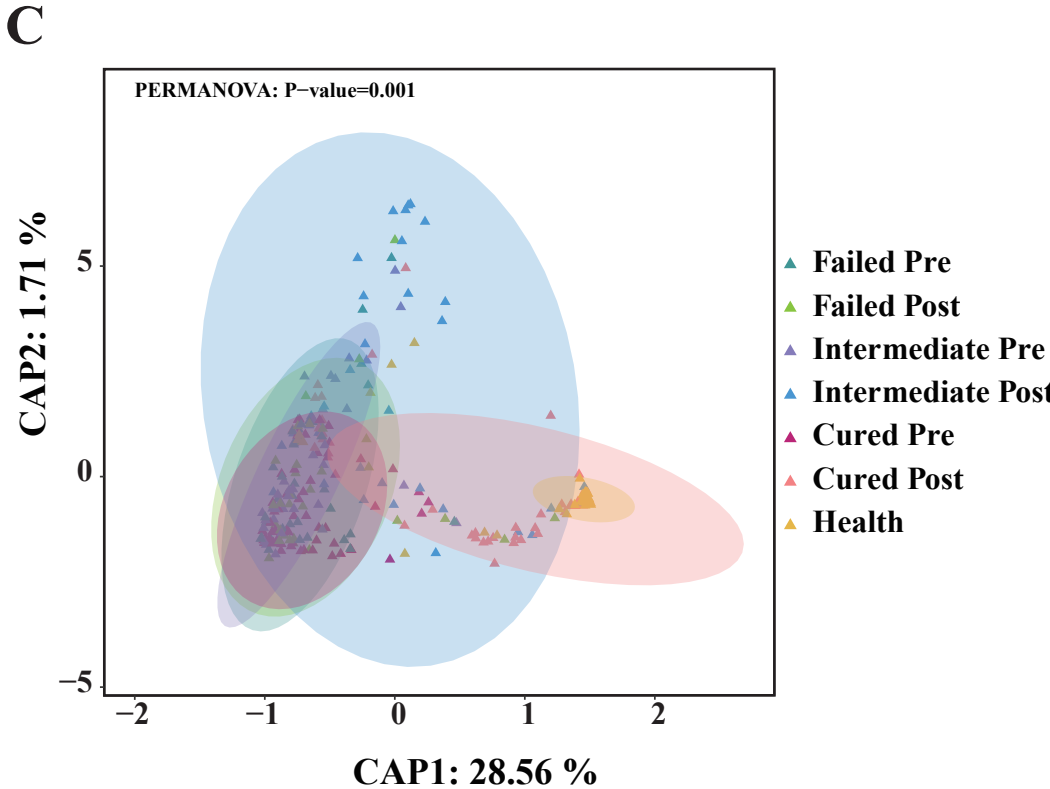
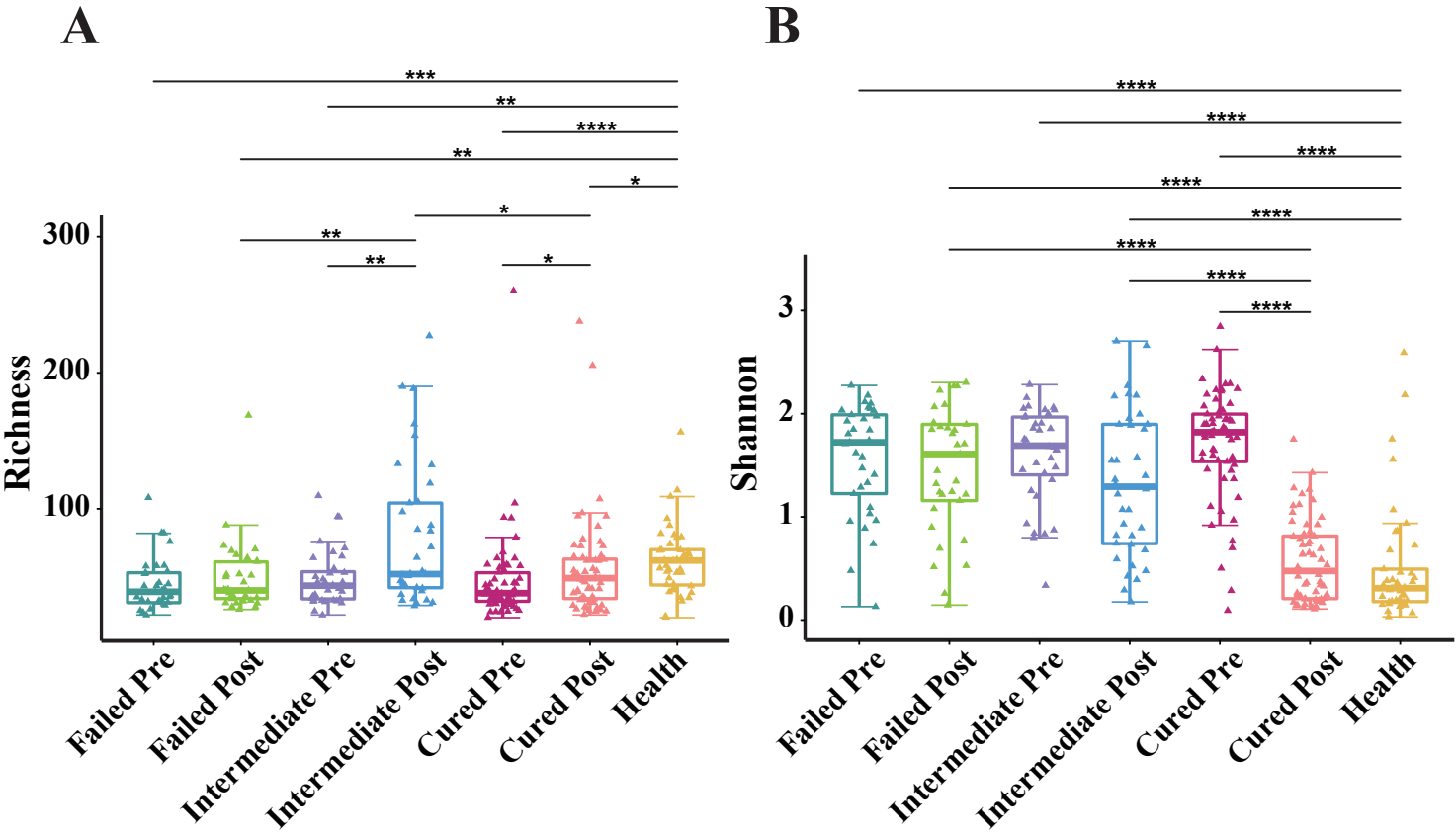
[Supplementary Figure 2] Intergroup comparison of Nugent score and vaginal pH

This figure shows the intergroup comparison of Nugent score (Supplementary Figure-2A) and vaginal pH (Supplementary Figure-2B) among Group cured, Group intermediate and Group failed with Kruskal-Wallis test used for statistical analysis. Only statistically significant differences are marked in the figure.



[Supplementary Figure 3] α -diversity analysis of all participants

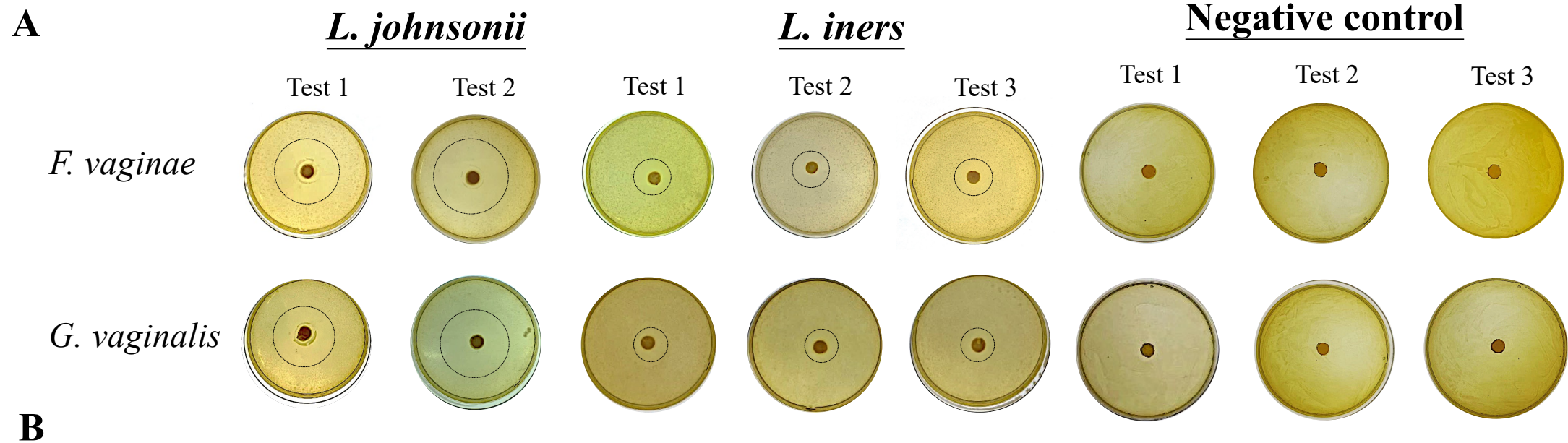
This figure shows the α -diversity analysis of healthy women and BV patients in each group. Significance is exhibited as: *: $p < 0.05$; **: $p < 0.01$; ***: $p < 0.001$; ****: $p < 0.0001$; Wilcoxon test for pairwise comparison between pre- and posttreatment and Kruskal-Wallis test for comparisons among different groups.



[Supplementary Figure 4] Antimicrobial activity test of *L. johnsonii* or *L. iners* against *G. vaginalis* or *F. vaginae*

A. Shows broths we used for antimicrobial activity tests. The clarity, brightness and contrast ratio were adjusted to better show the inhibition zone. The black dashed line marked the estimated edge of inhibition zone in each broth.

B. Shows the radius of inhibition zone in each broth.



| | <i>L. johnsonii</i> ^a | | <i>L. iners</i> ^a | | | Negative Control ^a | | |
|---------------------|----------------------------------|--------|------------------------------|--------|--------|-------------------------------|--------|--------|
| | Test 1 | Test 2 | Test 1 | Test 2 | Test 3 | Test 1 | Test 2 | Test 3 |
| <i>F. vaginae</i> | 4.6cm | 5.5cm | 2.5cm | 2.7cm | 3.5cm | 0cm | 0cm | 0cm |
| <i>G. vaginalis</i> | 4.2cm | 4.5cm | 1.9cm | 2.0cm | 2.0cm | 0cm | 0cm | 0cm |

^a This table shows the radius of inhibition zone in each broth.

[Supplementary Table 1] 16S rDNA sequence of *Gardnerella* genomospecies and *Lactobacillus* spp involved in this study

| Species | Strain | Sequence |
|--------------------------------|------------|--|
| <i>Lactobacillus Crispatus</i> | TMPC 9023F | <p>TAAGCATAGACGGCTATACATGCAAGTCGAGCGAGCGGAACCTAACAGATTTACTTCGGTAATGACGTTAGGAAAGCG AGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCATAGTCTGGGATACCACTTGGAAAAGGTGCTAATACCG GATAAGAAAGCAGATCGCATGATCAGCTTTTAAAAGGCGGCGTAAGCTGTCGCTATGGGATGGCCCCGCGGTGCATT AGCTAGTTGGTAAGGTAAAGGCTTACCAAGGCGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGAC TGAGACACGGCCAAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACG CCGCGTGAGTGAAGAAGGTTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAAGTGGCCTTTA TTTGACGGTAATCAACCAGAAAAGTCACGGGTAACACTACGTGCCAGCAGCCGCGTAATACGTAGGTGGCAAGCGTTGTC CGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGGAACT GCATCGGAAACTGTTTTTCTTGTAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATG GAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGA TTAGATAACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTTCCGCCTCTCAGTGCTGCAGCTA ACGCATTAAGCACTCCGCCTGGGAGTACGACCGCAAGGTTGAACTCAAAGGAATTGACGGGGGCCGCACAAGCG GTGGAGCATGTGGTTTAATTTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATTTGTAGAGATAC AAAGTTCCTTCGGGGACGCTAAGACAGGTGGTGCATGGCTGTCGTGAGTCTCGTGTGAGATGTTGGGTTAAGTCC CGAACGAGCGCAACCCTTGTATTAGTTGCCAGCATTAAAGTTGGGCACTCTAATGAGACTGCCGGTGACAAACCGGA GGAAGGTGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGGCAGTACAACG AGAAGCGAGCCTGCGAAGGCAAGCGAATCTCTGAAAGCTGTTCTCAGTTCGGACTGCAGTCTGCAACTCGACTGCACG AAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTAC ACCATGGGAGTCTGCAATGCCCAAAGCCGGTGGCCTAACCTTCGGGAAGGAGCCGTCTAAGGCAGGGCAGATGACTG GGGTGAAGTCGTAACAAGAGCATTAC</p> |
| | 15267 | <p>TCGAGCGAGCGGAACCTAACAGATTTACTTCGGTAATGACGTTAGGAAAGCGAGCGGCGGATGGGTGAGTAACACGTG GGGAACCTGCCCATAGTCTGGGATACCACTTGGAAACAGGTGCTAATACCGGATAAGAAAGCAGATCGCATGATCA GCTTTTAAAAGGCGGCGTAAGCTGTCGCTATGGGATGGCCCCGCGGTGCATTAGCTAGTTGGTAAGGTAAAGGCTTAC CAAGGCGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCAAACTCCTACGGG AGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGTTTTTCGGA TCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAAGTGGCCTTTATTTGACGGTAATCAACCAGAAAAGTCA CGGCTAACTACGTGCCAGCAGCCGCGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGC GCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGGAACTGCATCGGAAACTGTTTTTCTTGTAGTG CAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACCAGTGGCGAAGGCGG CTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATAACCCTGGTAGTCCATGCCG TAAACGATGAGTGCTAAGTGTGGGAGGTTTTCCGCCTCTCAGTGTGACGCTAACGCATTAAGCACTCCGCCTGGGGA GTACGACCGCAAGGTTGAACTCAAAGGAATTGACGGGGGCCGCACAAGCGGTGGAGCATGTGGTTTAATTCTGAAG</p> |

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| | | <p>CAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATTTGTAGAGATACAAAGTTCCCTTCGGGGACGCTAAGA CAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGCTGAGATGTTGGGTTAAGTCCCAGCAACGAGCGCAACCCTTGTTATT AGTTGCCAGCATTAAAGTTGGGCACTCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAGTC ATCATGCCCCCTTATGACCTGGGCTACACACGTGCTACAATGGGCAGTACAACGAGAAGCGAGCCTGCGAAGGCAAGC GAATCTCTGAAAGCTGTTCTCAGTTCGGACTGCAGTCTGCAACTCGACTGCACGAAGCTGGAATCGCTAGTAATCGCG GATCAGCACGCCGCGGTGAATACGTTCCCAGGGCCTTGTACACACCGCCCGTCACACCATGGGAGTCTGCAATGCCCAA AGCCGGTGGCCTAACCTTCGGGAAGGAGCC</p> |
| | 20278 | <p>AAGTCGAGCGAGCGGAACCTAACAGATTTACTTCGGTAATGACGTTAGGAAAGCGAGCGGCGGATGGGTGAGTAACAC GTGGGGAACCTGCCCATAGTCTGGGATACCACTTGGAAACAGGTGCTAATACCGGATAAGAAAGCAGATCGCATGA TCAGCTTTTAAAAGGCGGGCGTAAGCTGTCGCTATGGGATGGCCCCGCGGTGCATTAGCTAGTTGGTAAGGTAAGGCT TACCAAGGCGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCCAAACCTCCTAC GGGAGGCAGCAGTAGGGAATCTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGTTTTTC GGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACTGGCCTTTATTTGACGGTAATCAACCAGAAAG TCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGATTTATTGGGCGTAAAGCGA GCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGGAACTGCATCGGAAACTGTTTTTCTTGAG TGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACCAGTGGCGAAGGC GGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGC CGTAAACGATGAGTGCTAAGTGTGGGAGGTTTTCCGCCTCTCAGTGTCTGCAGCTAACGCATTAAGCACTCCGCCTGGG GAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAAGCGGTGGAGCATGTGGTTTAATTCGA AGCAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATTTGTAGAGATACAAAGTTCCCTTCGGGGACGCTAA GACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGCTGAGATGTTGGGTTAAGTCCCAGCAACGAGCGCAACCCTTGTTA TTAGTTGCCAGCATTAAAGTTGGGCACTCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAG TCATCATGCCCCCTTATGACCTGGGCTACACACGTGCTACAATGGGCAGTACAACGAGAAGCGAGCCTGCGAAGGCAA GCGAATCTCTGAAAGCTGTTCTCAGTTCGGACTGCAGTCTGCAACTCGACTGCACGAAGCTGGAATCGCTAGTAATCG CGGATCAGCACGCCGCGGTGAATACGTTCCCAGGGCCTTGTACACACCGCCCGTCACACCATGGGAGTCTGCAATGCC AAAGCCGGTGGCCTAACCTTAGGGAA</p> |
| | ATCC 33820 | <p>GACGAACGCTGGCGGCGTGCCTAATACATGCAAGTTCGAGCGAGCGGAACTAACAGATTTACTTCGGTAATGACGTTA GGAAAGCGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCATAGTCTGGGATACCACTTGGAAACAGGTG CTAATACCGGATAAGAAAGCAGATCGCATGATCAGCTTTTAAAAGGCGGGCGTAAGCTGTCGCTATGGGATGGCCCCG CGGTGCATTAGCTAGTTGGTAAGGTAAGGCTTACCAAGGCGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCA CATTGGGACTGAGACACGGCCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTCCACAATGGACGCAAGTCTGAT GGAGCAACGCCGCGTGAGTGAAGAAGGTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAA CTGGCCTTTATTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGC AAGCGTTGTCCGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAA</p> |

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| | | <p>CCGAGGAACTGCATCGGAAACTGTTTTCTTGAGTGCAGAAGAGGAGAGTGGAACCTCCATGTGTAGCGGTGGAATGC GTAGATATATGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGT AGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTCCGCCTCTCAG TGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGC CCGCACAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATT TGTAGAGATACAAAGTTCCCTTCGGGGACGCTAAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGCTGAGATGTT GGGTTAAGTCCCGCAACGAGCGCAACCCTTGTTATTAGTTGCCAGCATTAAAGTTGGGCACTCTAATGAGACTGCCGGT GACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGG GCAGTACAACGAGAAGCGAGCCTGCGAAGGCAAGCGAATCTCTGAAAGCTGTTCTCAGTTCCGACTGCAGTCTGCAA CTCGACTGCACGAAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCGGGCCTTGACAC ACCGCCCGTCACACCATGGGAGTCTGCAATGCCCAAAGCCGGTGGCCTAACCTTCGGGAAGGAGCCGTCTAAGGCAG GGCAGATGACTGGGGTGAAGTCGTAACAAGGTAGCCGTAGGAGAACTGC</p> |
| | BJ H42-4 | <p>TCTGCACTCAAGAAAAACAGTTTCCGATGCAGTTCCTCGGTTAAGCCGAGGGCTTTCACATCAGACTTATTCTTCCGCG TGCGCTCGCTTACGCCAATAAATCCGGACAACGCTTGCCACCTACGTATTACCGCGGCTGCTGGCACGTAGTTAGC CGTGACTTTCTGGTTGATTACCGTCAAATAAAGGCCAGTTACTACCTCTATCCTTCTTACCAACAACAGAGCTTTACG ATCCGAAAACCTTCTTCACTCACGCGGCGTTGCTCCATCAGACTTGCCTCATTGTGGAAGATTCCCTACTGCTGCCTC CCGTAGGAGTTTGGGCCGTGTCTCAGTCCCAATGTGGCCGATCAGTCTCTCAACTCGGCTATGCATCATCGCCTTGGA AGCCTTTACCTTACCAACTAGCTAATGCACCGCGGGGCCATCCCATAGCGACAGCTTACGCCGCTTTTAAAAGCTGA TCATGCGATCTGCTTTCTTATCCGGTATTAGCACCTGTTTCCAAGTGGTATCCAGACTATGGGGCAGGTTCCCCACGT GTTACTCACCCATCCGCCGCTCGCTTTCCTAACGTCATTACCGAAGTAAATCTGTTAGTTCCGCTCGCTCGACTTGCAT GTATTAGGCACGCCGCCAGCGTTCGTCTGAGCCAT</p> |
| | TMPC 9023F | <p>TAAGCATAGACGGCTATACATGCAAGTCGAGCGAGCGGAACTAACAGATTTACTTCCGGTAATGACGTTAGGAAAGCG AGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCCATAGTCTGGGATACCACTTGAAACAGGTGCTAATACC GGATAAGAAAGCAGATCGCATGATCAGTTTTAAAAGGCGGCGTAAGCTGTCGCTATGGGATGGCCCCGCGGTGCAT TAGCTAGTTGGTAAGGTAAAGGCTTACCAAGGCGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGA CTGAGACACGGCCAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAAC GCCGCGTGAGTGAAGAAGGTTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACTGGCCTTT ATTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGTAATACGTAGGTGGCAAGCGTTG TCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAAACCGAGGAA CTGCATCGGAAACTGTTTTCTTGAGTGCAGAAGAGGAGAGTGGAACCTCCATGTGTAGCGGTGGAATGCGTAGATATA TGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAG GATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTTCCGCCTCTCAGTGTGCTGACG TAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAG CGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATTTGTAGAGAT</p> |

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| | | <p>ACAAAGTTCCTTCGGGGACGCTAAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGAGATGTTGGGTAAAGT CCCACAACGAGCGCAACCCTTGTTATTAGTTGCCAGCATTAAAGTTGGGCACCTAATGAGACTGCCGGTGACAAACCG GAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCCTTATGACCTGGGCTACACACGTGCTACAATGGGCAGTACAA CGAGAAGCGAGCCTGCGAAGGCAAGCGAATCTCTGAAAGCTGTTCTCAGTTCGGACTGCAGTCTGCAACTCGACTGCA CGAAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCGGGCCTTGACACACCGCCCGTC ACACCATGGGAGTCTGCAATGCCCAAAGCCGGTGGCCTAACCTTCGGGAAGGAGCCGTCTAAGGCAGGGCAGATGAC TGGGGTGAAGTCGTAACAAGAGCATTAC</p> |
| <i>Lactobacillus gasseri</i> | HDB1102 | <p>CGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGCTTGCCTAGATGAATTTGGTGTTCACCAAATGAAA CTAGATAACAAGCGAGCGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCCAAGAGACTGGGATAACACCTGGAAAC AGATGCTAATACCGGATAACAACACTAGACGCATGTCTAGAGTTTAAAAGATGGTTCTGCTATCACTCTTGGATGGAC CTGCGGTGCATTAGCTAGTTGGTAAGGTAACGGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGATCGGC CACATTGGGACTGAGACACGGCCAAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTG ATGGAGCAACGCCGCGTGAGTGAAGAAGGGTTTCGGCTCGTAAAGCTCTGTTGGTAGTGAAGAAAGATAGAGGTAGT AACTGGCCTTTATTTGACGGTAATTACTTAGAAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTG GCAAGCGTTGTCCGATTTATTGGGCGTAAAGCGAGTGCAGGCGGTTCAATAAGTCTGATGTGAAAGCCTTCGGCTCA ACCGGAGAATTGCATCAGAACTGTTGAACTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATG CGTAGATATATGGAAGAACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGG TAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAGTGCTAAGTGTGGGAGGTTTCCGCCTCTCA GTGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAACTCAAAGGAATTGACGGGGG CCCGCACAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCCAGTGCAA ACCTAAGAGATTAGGAGTTCCTTCGGGGACGCTGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGAGATG TTGGGTTAAGTCCCGCAACGAGCGCAACCCTTGTCAATTAGTTGCCATCATTAAAGTTGGGCACTCTAATGAGACTGCCG GTGACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCCTTATGACCTGGGCTACACACGTGCTACAAT GGACGGTACAACGAGAAGCGAACCTGCGAAGGCAAGCGGATCTCTGAAAGCCGTTCTCAGTTCGGACTGTAGGCTGC AACTCGCCTACACGAAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCGGGCCTTGAC ACACCGCCCGTCACACCATGAGAGTCTGTAACACCCAAAGCCGGTGGGATAACCTTTATAGGAGTCAGCCGTCTAAGG TAGGACAGATGATTAGGGTGAATCTAAAAG</p> |
| | ATCC 33323 | <p>GAAAATGAGAGTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGCTTGCCT AGATGAATTTGGTGTTCACCAGATGAAACTAGATAACAAGCGAGCGGCGGACGGGTGAGTAACACGTGGGTAACCT GCCCAAGAGACTGGGATAACACCTGGAAACAGATGCTAATACCGGATAACAACACTAGACGCATGTCTAGAGTTTAA AAGATGGTTCTGCTATCACTCTTGGATGGACCTGCGGTGCATTAGCTAGTTGGTAAGGTAACGGCTTACCAAGGCAAT GATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCAAACTCCTACGGGAGGCAGCAG TAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGGTTTCGGCTCGTAAAGC TCTGTTGGTAGTGAAGAAAGATAGAGGTAGTAACTGGCCTTTATTTGACGGTAATTACTTAGAAAAGTCACGGCTAACT</p> |

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| | | <p>ACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGTGCAGGCGGT TCAATAAGTCTGATGTGAAAGCCTTCGGCTCAACCGGAGAATTGCATCAGAACTGTTGAACTTGAGTGCAGAAGAG GAGAGTGGAATCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACCAAGTGGCGAAGGCGGCTCTCTGGT CTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGAT GAGTGCTAAGTGTGGGAGGTTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCTGGGGAGTACGACC GCAAGGTTGAACTCAAAGGAATTGACGGGGGCCCGCACAAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGA AGAACCTTACCAGGTCTTGACATCCAGTGCAAACCTAAGAGATTAGGTGTTCCCTTCGGGGACGCTGAGACAGGTGGT GCATGGCTGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCCTGTCATTAGTTGCCAT CATTAAAGTTGGGCACTCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCC CTTATGACCTGGGCTACACACGTGCTACAATGGACGGTACAACGAGAAGCGAACCTGCGAAGGCAAGCGGATCTCTG AAAGCCGTTCTCAGTTCGGACTGTAGGCTGCAACTCGCCTACACGAAGCTGGAATCGCTAGTAATCGCGGATCAGCAC GCCGCGGTGAATACGTTCCCGGGCCTGTACACACCGCCCGTCACACCATGAGAGTCTGTAACACCCAAAGCCGGTGG GATAACCTTTATAGGAGTCAGCCGTCTAAGGTAGGACAGATGATTAGGGTGAAGTTCGTAACAAGGTAGCCGTAGGAG AACCTGCGGCTGGATCACCTCCTT</p> |
| 896-2 | | <p>AAACTGCAGTCGAGCGAGCTTGCCTAGATGAATTTGGTGTCTGCACCAGATGAACTAGATACAAGCGAGCGGCGGA CGGGTGAGTAACACGTGGGTAACCTGCCAAGAGACTGGGATAACACCTGGAAACAGATGCTAATACCGGATAACAA CACTAGACGCATGTCTAGAGTTTAAAAGATGGTTCTGCTATCACTCTTGGATGGACCTGCGGTGCATTAGCTAGTTGGT AAGGTAACGGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGC CCAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTG AAGAAGGGTTTTCGGCTCGTAAAGCTCTGTTGGTAGTGAAGAAAGATAGAGGTAGTAACTGGCCTTTATTTGACGGTAA TACTTAGAAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTG GGCGTAAAGCGAGTGCAGGCGGTTCAATAAGTCTGATGTGAAAGCCTTCGGCTCAACCGGAGAATTGCATCAGAAAC TGTTGAACTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACC AGTGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCC TGGTAGTCCATGCCGTAAACGATGAGTGCTAAGTGGTGGGAGGTTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAG CACTCCGCCTGGGAGTACGACCGCAAGGTTGAACTCAAAGGAATTGACGGGGGCCCGCACAAAGCGGTGGAGCATG TGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCCAGTGCAAACCTAAGAGATTAGGTGTTCCCT TCGGGGACGCTGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGC GCAACCCTTGCATTAGTTGCCATCATTAAAGTTGGGCACTCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGG GATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGACGGTACAACGAGAAGCGAAC CTGCGAAGGCAAGCGGATCTCTGAAAGCCGTTCTCAGTTCGGACTGTAGGCTGCAACTCGCCTACACGAAGCTGGAAT CGCTAGTAATCGCCGA</p> |
| 545 | | <p>CGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGCTTGCCTAGATGAATTTGGTGTCTGCACCAAATGAACTAG ATACAAGCGAGCGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCAAGAGACTGGGATAACACCTGGAAACAGA</p> |

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| | | <p>TGCTAATACCGGATAACAACACTAGACGCATGTCTAGAGTTTAAAAGATGGTTCTGCTATCACTCTTGGATGGACCTG CGGTGCATTAGCTAGTTGGTAAGGTAACGGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGATCGGCCA CATTGGGACTGAGACACGGCCAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGAT GGAGCAACGCCGCGTGAGTGAAGAAGGGTTTCGGCTCGTAAAGCTCTGTTGGTAGTGAAGAAAGATAGAGGTAGTAA CTGGCCTTTATTTGACGGTAATTACTTAGAAAAGT</p> |
| | 345A | <p>AGAGTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGCTTGCCTAGATGAAT TTGGTGCTTGCACCAAATGAAACTAGATACAAGCGAGCGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCCAAGA GACTGGGATAACACCTGGAAACAGATGCTAATACCGGATAACAACACTAGACGCATGTCTAGAGTTTAAAAGATGGT TCTGCTATCACTCTTGGATGGACCTGCGGTGCATTAGCTAGTTGGTAAGGTAACGGCTTACCAAGGCAATGATGCATA GCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCAACTCCTACGGGAGGCAGCAGTAGGGAAT CTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGGTTTCGGCTCGTAAAGCTCTGTTGGT AGTGAAGAAAGATAGAGGTAGTAACTGGCCTTTATTTGACGGTAATTACTTAGAAAAGTCACGGCTAACTACGTGCCAG CAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGTGCAGGCGGTTCAATAAGTC TGATGTGAAAGCCTTCGGCTCAACCGGAGAATTGCATCAGAACTGTTGAACTTGAGTGCAGAAGAGGAGAGTGGAA CTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGAC GCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGTCTAAGT GTTGGGAGGTTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAA ACTCAAAGGAATTGACGGGGGCCCCGACAAAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACGCGAAGAACCTTACC AGGTCTTGACATCCAGTGCAAACCTAAGAGATTAGGTGTTCCCTTCGGGGACGCTGAGACAGGTGGTGCATGGCTGTC GTCAGCTCGTGTCTGAGATGTTGGGTTAAGTCCCAGCAACGAGCGCAACCCTTGTATTAGTTGCCATCATTAGTTGG GCACTCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTG GGCTACACACGTGCTACAATGGACGGTACAACGAGAAGCGAACCTGCGAAGGTAAGCGGATCTCTGAAAGCCGTTCT CAGTTCGGACTGTAGGCTGCAACTCGCCTACACGAAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGA ATACGTTCCCGGGCCTTGTACACACCGCCCGTCACACCATGAGAGTCTGTAACACCCAAAGCCGGTGGGATAACCTTT ATAGGAGTCAGCCGTCTAAGGTAGGACAGATGATTAGGTTGAAGTCGTAACAAGGTAGCCGTAGGAGAACCCTGCGGC TGGATCACCT</p> |
| <i>Lactobacillus iners</i> | LC483559.1 | <p>GGCTCAGGACGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGTCTGCCTTGAAGATCGGAGTGCTTGCA CTCTGTGAAACAAGATACAGGCTAGCGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCCAAGAGATCGGGATAAC ACCTGGAACAGATGCTAATACCGGATAACAACAGATGATGCCTATCAACTGTTTAAAAGATGGTTCTGCTATCACTC TTGGATGGACCTGCGGTGCATTAGCTAGTTGGTAGGGTAACGGCCTACCAAGGCGATGATGCATAGCCGAGTTGAGA GACTGATCGGCCACATTGGGACTGAGACACGGCCAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGG ACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGGTTTCGGCTCGTAAAGCTCTGTTGTTGGTGAAGAAGG ACAGGGGTAGTAACTGACCTTTGTTTACGGTAATCAATTAGAAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTA ATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGTGCAGGCGGCTCGATAAGTCTGATGTGAAA</p> |

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| | | <p>GCCTTCGGCTCAACCGGAGAATTGCATCAGAACTGTCGAGCTTGAGTACAGAAGAGGAGAGTGGAACCTCCATGTGT AGCGGTGAAATGCGTAGATATATGGAAGAACACCGGTGGCGAAGGCGGCTCTCTGGTCTGTTACTGACGCTGAGGCT CGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAGTGCTAAGTGTGGGAGG TTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGG AATTGACGGGGGCCCCGCACAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGA CATCCATAGCCAGTCTAAGAGATTAGATGTTCCCTTCGGGGACTATGAGACAGGTGGTGCATGGCTGTCGTCAGCTCG TGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCTTGTCAATTAGTTGCCAGCATTAAAGTTGGGCACTCTA ATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACAC ACGTGCTACAATGGACGGTACAACGAGAAGCGACCCTGTGAAGGCAAGCGGATCTCTGAAAGCCGTTCTCAGTTCGG ATTGCAGGCTGCAACTCGCCTGCATGAAGCTGGAATCGCTAGTAATCGCAAATCAGCACGTTGCGGTGAATACGTTCC CGGGCCTTGTACACACCGCCCGTCACACCATGAGAGTCTGTAACGCCCGAAGCCGGCGGGATAACCGAAAGGAGTCA GCCGTCTAAGGCGGGACAGATGATTAGGGTGAAGTCC</p> |
| | AY526083.1 | <p>GACGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGTCTGCCTTGAAGATCGGAGTGCTTGCCTCTGTGA AACAAAGATACAGGCTAGCGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCAAGAGATCGGGATAACACCTGGA AACAGATGCTAATACCGGATAACAACAGATGATGCCTATCAACTGTTTAAAAGATGGTTCTGCTATCACTCTTGATG GACCTGCGGTGCATTAGCTAGTTGGTAGGGTAACGGCCTACCAAGGCGATGATGCATAGCCGAGTTGAGAGACTGAT CGGCCACATTGGGACTGAGACACGGCCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAG TCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGGTTTCGGCTCGTAAAGCTCTGTTGTTGGTGAAGAAGGACAGGGG TAGTAACTGACCTTTGTTGACGGTAATCAATTAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTA GGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGTGCAGGCGGCTCGATAAGTCTGATGTGAAAGCCTTCGG CTCAACCGGAGAATTGCATCAGAACTGTCGAGCTTGAGTACAGAAGAGGAGAGTGGAACCTCCATGTGTAGCGGTGA AATGCGTAGATATATGGAAGAACACCGGTGGCGAAGGCGGCTCTCTGGTCTGTTACTGACGCTGAGGCTCGAAAGCA TGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAGTGCTAAGTGTGGGAGGTTTCCGCCT CTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACG GGGGCCCCGCACAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCCATA GCCAGTCTAAGAGATTAGATGTTCCCTTCGGGGACTATGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTCTGTA GATGTTGGGTTAAGTCCCCGCAACGAGCGCAACCCTTGTCAATTAGTTGCCAGCATTAAAGTTGGGCACTCTAATGAGACT GCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTA CAATGGACGGTACAACGAGAAGCGACCCTGTGAAGGCAAGCGGATCTCTGAAAGCCGTTCTCAGTTCGGATTGCAGG CTGCAACTCGCCTGCATGAAGCTGGAATCGCTAGTAATCGCAAATCAGCACGTTGCGGTGAATACGTTCCCGGGCCTT GTACACACCGCCCGTCACACCATGAGAGTCTGTAACGCCCGAAGCCGGCGGGATAACCGAAAGGAGTCAGCCGTCTA AGGCGGGAC</p> |
| | DSM 13335 | <p>TGGCTCAGGACGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGTCTGCCTTGAAGATCGGAGTGCTTGCA CTCTGTGAAACAAGATACAGGCTAGCGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCAAGAGATCGGGATAAC</p> |

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| | | <p>ACCTGGAACAGATGCTAATACCGGATAACAACAGATGATGCCTATCAACTGTTTAAAAGATGGTTCTGCTATCACTC TTGGATGGACCTGCGGTGCATTAGCTAGTTGGTAGGGTAACGGCCTACCAACGCGATGATGCATAGCCGAGTTGAGAG ACTGATCGGCCACATTGGGACTGAGACACGGCCAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGA CGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGGTTTCGGCTCGTAAAGCTCTGTTGTTGGTGAAGAAGGA CAGGGGTAGTAACTGACCTTTGTTTGACGGTAATCAATTAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAA TACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGTGCAGGCGGCTCGATAAGTCTGATGTGAAAGC CTTCGGCTCAACCGGAGAATTGCATCAGAACTGTGCGAGCTTGAGTACAGAAGAGGAGAGTGGAACTCCATGTGTAG CGGTGAAATGCGTAGATATATGGAAGAACACCGGTGGCGAAGGCGGCTCTCTGGTCTGTTACTGACGCTGAGGCTCG AAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAGTGCTAAGTGTGGGAGGTT TCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAA TTGACGGGGGCCCGCACAAGCGGTGGAGCATGTGGTTTAATTGGAAGCAACGCGAAGAACCTTACCAGGTCTTGACA TCCATAGCCAGTCTAAGAGATTAGATGTTCCCTTCGGGGACTATGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTG TCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCTTGTCATTAGTTGCCAGCATTAAAGTTGGGCACTCTAAT GAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACAC GTGCTACAATGGACGGTACAACGAGAAGCGACCCTGTGAAGGCAAGCGGATCTCTGAAAGCCGTTCTCAGTTTCGGAT TGCAGGCTGCAACTCGCCTGCATGAAGCTGGAATCGCTAGTAATCGAAATCAGCACGTTGCGGTGAATACGTTCCCG GGCCTTGTACACACCGCCCGTCACACCATGAGAGTCTGTAACGCCCGAAGCCGGCGGGATAACCGAAAGGAGTCAAGC CGTCTAAGGCGGGACAGATGATTAGGGTGAAGTCGTAACAAGGTAGCCGTAGGAGAACCTGCGGCTG</p> |
| L1 | | <p>CTATACTGCAGTCGAGCGAGTCTGCCTTGAAGATCGGAGTGCTTGCCTCTGTGAAACAAGATACAGGCTAGCGGCGG ACGGGTGAGTAACACGTGGGTAACCTGCCAAGAGATCGGGATAACACCTGGAACAGATGCTAATACCGGATAACA ACAGATGATGCCTATCAACTGTTTAAAAGATGGTTCTGCTATCACTCTTGGATGGACCTGCGGTGCATTAGCTAGTTGG TAGGGTAACGGCCTACCAAGGCGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGG CCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGT GAAGAAGGGTTTCGGCTCGTAAAGCTCTGTTGTTGGTGAAGAAGGACAGGGGTAGTAACTGACCTTTGTTGACGGTA ATCAATTAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATT GGGCGTAAAGCGAGTGCAGGCGGCTCGATAAGTCTGATGTGAAAGCCTTCGGCTCAACCGGAGAATTGCATCAGAAA CTGTGCGAGCTTGAAGTACAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGAAATGCGTAGATATATGGAAGAACAC CGGTGGCGAAGGCGGCTCTCTGGTCTGTTACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACC CTGGTAGTCCATGCCGTAAACGATGAGTGCTAAGTGTGGGAGGTTTCGGCTCTCAGTGCTGCAGCTAACGCATTAA GCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCGGTGGAGCAT GTGGTTTAATTGGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCCATAGCCAGTCTAAGAGATTAGATGTTCCC TTCGGGGACTATGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAG CGCAACCCTTGTATTAGTTGCCAGCATTAAAGTTGGGCACTCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGG GGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGACGGTACAACGAGAAGCGAC</p> |

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| | | CCTGTGAAGGCAAGCGGATCTCTGAAAGCCGTTCTCAGTTCGGATTGCAGGCTGCAACTCGCCTGCATGAAGCTGGAA TCGCTAGTAATCGCAAATCAGCACGTTGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTCACACCATGAGA GTCTGTAAACGCCCGAAGCCGGCGGGATAACCGAAAGGAGTCAGCCGTCTAGTC |
| <i>Lactobacillus jensenii</i> | 70(02) | AGAGTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGCTTGCCTATAGAAAT TCTTCGGAATGGACATAGATAACAAGCTAGCGGCGGATGGGTGAGTAACGCGTGGGTAACCTGCCCTTAAGTCTGGGAT ACCATTTGGAAACAGATGCTAATACCGGATAAAAGCTACTTTTCGCATGAAAGAAGTTTAAAAGGCGGCGTAAGCTGT CGCTAAAGGATGGACCTGCGATGCATTAGCTAGTTGGTAAGGTAACGGCTTACCAAGGCGATGATGCATAGCCGAGTT GAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCCAAACCTCTACGGGAGGCAGCAGTAGGGAATCTTCCACA ATGGACGAAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGTTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAG AAGGATAGAGGTAGTAACCTGGCCTTTATTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCG CGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGATTGATAAGTCTGATGT GAAAGCCTTCGGCTCAACCGAAGAACTGCATCAGAAACTGTCAATCTTGAGTGCAGAAGAGGAGAGTGGAACCTCCAT GTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGTAACCTGACGCTGA GGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGG GAGGTTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCA AAGGAATTGACGGGGGCCCCGACAAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTC TTGACATCCTTTGACCACCTAAGAGATTAGGTTTTCCCTTCGGGGACAAAGAGACAGGTGGTGCATGGCTGTCGTCAG CTCGTGTCTGAGA |
| | 17051 | TGCAAGTCGAGCGAGCTTGCCTATTGAAATTCTTCGGAATGGACATAGATAACAAGCTAGCGGCGGATGGGTGAGTAA CGCGTGGGTAACCTGCCCTTAAGTCTGGGATACCATTTGGAAACAGATGCTAATACCGGATAAAAGCTACTTTCGCAT GAAAGAAGTTTAAAAGGCGGCGTAAGCTGTCGCTAAAGGATGGACCTGCGATGCATTAGCTAGTTGGTAAGGTAACG GCTTACCAAGGCGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCCAAACCTCC TACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGTT TTCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACTGGCCTTTATTTGACGGTAATCAACCAGA AAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAG CGAGCGCAGGCGGATTGATAAGTCTGATGTGAAAGCCTTCGGCTCAACCGAAGAACTGCATCAGAAACTGTCAATCTT GAGTGCAGAAGAGGAGAGTGGAACCTCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACCAGTGGCGAA GGCGGCTCTCTGGTCTGTAACCTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCA TGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCT GGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCCGACAAAGCGGTGGAGCATGTGGTTTAATT CGAAGCAACGCGAAGAACCTTACCAGGTTGACATCCTTTGACCACCTAAGAGATTAGGTTTTCCCTTCGGGGACAA AGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCCTTG TTAATAGTTGCCAGCATTAAAGTTGGGCACTCTATTGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTC AAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGGCAGTACAACGAGAAGCGAACCTGTGAAGG |

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| | | CAAGCGGATCTCTTAAAGCTGTTCTCAGTTCGGACTGTAGGCTGCAACTCGCCTACACGAAGCTGGAATCGCTAGTAA TCGCGGATCAGCACGCCGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTCACACCATGAGAGTTTGTAAACA CCCAAAGTCGGTGAGGTAACCTTTGGAGCCAGCCGCCTAAG |
| | ATCC 25258 | TGCCTAATACATGCAAGTCGAGCGAGCTTGCCTATAGAAGTTCTTCGGAATGGAAATAGATACAAGCTAGCGGCGGAT GGGTGAGTAACGCGTGGGTAACCTGCCCTTAAGTCTGGGATACCATTTGGAAACAGATGCTAATACCGGATAAAAGCT ACTTTCGCATGAAAGAAGTTTAAAAGGCGGCGTAAGCTGTTCGTAAAGGATGGACTTGCATGCATTAGCTAGTTGGTA AGGTAACGGCTTACCAAGGCTGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGC CCAAACTCCTACGGGAGGCAGCAGTAGGGAATCTCCACAATGGACGAAAGTCTGATGGAGCAACGCCGCGTGAGTG AAGAAGTTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAAGTGGCCTTTATTTGACGGTAA TCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGATTTATTG GGCGTAAAGCGAGCGCAGGCGGATTGATAAGTCTGATGTGAAAGCCTTCGGCTCAACCGAAGAAGTGCATCAGAAAC TGTCATCTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACC AGTGGCGAAGGCGGCTCTCTGGTCTGTAAGTACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCC TGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAG CACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAAGCGGTGGAGCATG TGGTTAATTGAAGCAACGCGAAGAACCCTTACCAGGCTTACATCCTTTGACCACCTAAGAGATTAGGTTTTCCCTT CGGGGACAAAGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGC GCAACCCTTGTTAATAGTTGCCAGCATTAAAGTTGGGCACTCTATTGAGACTGCCGGTGACAAACCGGAGGAAGGTGGG GATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGGCAGTACAACGAGAAGCGAAC CTGTGAAGGCAAGCGGATCTCTTAAAGCTGTTCTCAGTTCGGACTGTAGGCTGCAACTCGCCTACACGAAGCTGGAAT CGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTCACACCATGAGAG TTTGTAACACCCAAAGTCGGTGAGGTAACCTTTGGAGCCAGCCGCCTAAGGTGGGACAGATGATTAGGGTGAAGTCGT AACAAAGGTAGCCGTAGGAGAA |
| | NP8998F | CAAGTCGAGCGAGCTTTGCCTATAGAATTCTTYGGAATGGACATAKATACWAGCTWKYGGCGGATGGGTGAGTAAC GCGTGGGTAACCTGCCCTTAAGTCTGGGATACCATTTGGAAACAGATGCTAATACCGGATAAAAGCTACTTTCGCATG AAAGAAGTTTAAAAGGCGGCGTAAGCTGTCKCTAAAGGATGGACCTGCGATGCATTAGCTAGTTGGTAAGGTAACGG CTTACCAAGGCGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCCAAACCTCT ACGGGAGGCAGCAGTAKGGAATCTCCACAATGGACGAAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGTTT TCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAAGTGGCCTTTATTTGACGGTAATCAACCAGAA AGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAWGCCTTGTCCGATTTATTGGGCGTAAAG CGAGCGCAGGCGGATTGATAAGTCTGATGTGAAAGCCTTCGGCTCAACCGAAGAAGTGCATCAGAAACTGTCAATCTT GAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACCAGTGGCGAA KGCAGCTCTCTGKTCTGTAAGTACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAKTCCA TGCCGTAACGATGAGTGCTAAGTGTGGGAGKTTYCCGCCTCTCAGTGCTGCWCTAACGCATTAAWCACTCCGCCTG |

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| | | <p>GGGAGTACGACCGCAAGGTTGAAACTMAAGGAATTGACGSGGGCCCGCMCAGCGGTGGAGCATGTGGTTTAATTCSA AGCACGCKAAKACCTTACMGGYCTTGACATCCTTTGACCACCTAGAGATAGGTTTTCCCTTCSGGACAAGARACAGGT GGKGCAGCTGYSTCAKCTCGTYCSTGARATGTTTGGGTAAKTCCCGCATCGAGCGCACCCCTTGTTATMGT</p> |
| | <p>TMPC 9023A</p> | <p>TGGCAGGTGGCGGGTGTCTATACATGCAGTCGAGCGAGCTTGCCATTGAAATTCTTCGGAATGGACATAGATAACAAGC TAGCGGCGGATGGGTGAGTAACGCGTGGGTAACCTGCCCTTAAGTCTGGGATACCATTTGAAACAGATGCTAATACC GGATAAAAGCTACTTTCGCATGAAAGAAGTTTAAAAGGCGGGCGTAAGCTGTCGCTAAAGGATGGACCTGCGATGCAT TAGCTAGTTGGTAAGGTAACGGCTTACCAAGGCGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGA CTGAGACACGGCCAAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAAC GCCGCGTGAGTGAAGAAGGTTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACTGGCCTTT ATTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGTAATACGTAGGTGGCAAGCGTTG TCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGATTGATAAGTCTGATGTGAAAGCCTTCGGCTCAACCGAAGAA CTGCATCAGAAACTGTCAATCTTGAGTGCAGAAGAGGAGAGTGGAATCCATGTGTAGCGGTGGAATGCGTAGATAT ATGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGTAAGTCTGAGGCTCGAAAGCATGGGTAGCGAACA GGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTTTCCGCCTCTCAGTGCTGCAG CTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAA GCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCCTTTGACCACCTAAGAGA TTAGTTTTTCCCTTCGGGGACAAAGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGAGATGTTGGGTAAAG TCCCGCAACGAGCGCAACCCTTGTTAATAGTTGCCAGCATTAAAGTTGGGCACTCTATTGAGACTGCCGGTGACAAACC GGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGGCAGTACA ACGAGAAGCGAACCTGTGAAGGCAAGCGGATCTCTTAAAGCTGTTCTCAGTTCGGACTGTAGGCTGCAACTCGCTAC ACGAAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCGGGCCTTGACACACCGCCCGT CACACCATGAGAGTTTGTAAACACCCAAAGTCGGTGAGGTAACCTTTGGAGCCAGCCGCCTAAGGTGGGACAGATGAT TAGGGTGAAGTCGTAACAAGAGCAGGCCCC</p> |
| <p><i>Lactobacillus helveticus</i></p> | <p>Al-Salhi-190</p> | <p>GGGTGAGTAACACGTGGGGAACCTGCCCATAGTCTGGGATACCACTTGAAACAGGTGCTAATACCGGATAAGAAA GCAGATCGCATGATCAGCTTATAAAAGGCGGGCGTAAGCTGTCGCTATGGGATGGCCCCGCGGTGCATTAGCTAGTTGG TAAGGTAACGGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGG CCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGT GAAGAAGTTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACTGGCCTTTATTTGACGGTG ATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATT GGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGGAACTGCATCGGAAA CTGTTTTTCTTGAGTGCAGAAGAGGAGAGTGGAATCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACC AGTGCGAAGGCGACTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCC TGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAG CACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAAGCGGTGGAGCATG</p> |

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| | TGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATC |
| DSM 20075 | AAAGTTTGATTCTGGCTCAGGACGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGCAGAACCAGCAGAT TTACTTCGGTAATGACGCTGGGGACGCGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCCATAGTCTGGG ATACCACTTGAAACAGGTGCTAATACCGGATAAGAAAGCAGATCGCATGATCAGCTTATAAAAGGCGGCGTAAGCT GTCGCTATGGGATGGCCCCGCGGTGCATTAGCTAGTTGGTAAGGTAACGGCTTACCAAGGCAATGATGCATAGCCGAG TTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCAAACTCTACGGGAGGCAGCAGTAGGGAATCTTCCA CAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGTTTTCCGGATCGTAAAGCTCTGTTGTTGGTGAA GAAGGATAGAGGTAGTAAGTGGCCTTTATTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCC GCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGAT GTGAAAGCCCTCGGCTTAACCGAGGAACTGCATCGGAAACTGTTTTTCTTGAGTGCAGAAGAGGAGAGTGGAATTCCA TGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACCAGTGCCGAAGGCGACTCTCTGGTCTGCAACTGACGCTG AGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTG GGAGGTTTTCCGCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTC AAAGGAATTGACGGGGGCCCGCACAAAGCGGTGGAGCATGTGGTTAATTCGAAGCAACGCGAAGAACCTTACCAGGT CTTGACATCTAGTGCCATCCTAAGAGATTAGGAGTTCCTTCCGGGACGCTAAGACAGGTGGTGCATGGCTGTCGTC GCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCTTGTTATTAGTTGCCAGCATTAAAGTTGGGCA CTCTAATGAGACTGCCGGTGATAAACCAGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCT ACACACGTGCTACAATGGACAGTACAACGAGAAGCGAGCCTGCGAAGGCAAGCGAATCTCTGAAAGCTGTTCTCAGT TCGGACTGCAGTCTGCAACTCGACTGCACGAAGCTGGAATCGCTAGTAATCGCGGATCAGAACGCCGCGGTGAATAC GTTCCCGGGCCTTGTACACACCGCCCGTCACACCATGGAAGTCTGCAATGCCCAAAGCCGGTGGCCTAACCTTCGGGA AGGAGCCGTCTAAGGCAGGGCAGATGACTGGGGTGAAGTCGTAACAAGGTAGCCGTAGAGAACCTGCGGCTGGATCA CCTCCT |
| KHI1 | GCAGTCGAGCGAGCAGAACCAGCAGATTTACTTCGGTAATGACGCTGGGGACGCGAGCGGCGGATGGGTGAGTAACA CGTGGGGAACCTGCCCCATAGTCTAGGATACCACTTGAAACAGGTGCTAATACCGGATAATAAAGCAGATCGCATG ATCAGCTTATAAAAGGCGGCGTAAGCTGTCGCTATGGGATGGCCCCGCGGTGCATTAGCTAGTTGGTAAGGTAACGGC TTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGAACGGCCACATTGGGACTGAGACACGGCCAAACTCCTA CGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGTTTT CGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAAGTGGCCTTTATTTGACGGTAATCAACCAGAAA GTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCG AGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGGAATTGCATCGGAAACTGTTTTTCTTGA GTGCAGAAGAGGAGAGTGGAAGTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACCAGTGCCGAAGG CGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATG CCGTAACGATGAGTGCTAAGTGTGGGAGGTTTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCTGG GGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAAGCGGTGGAGCATGTGGTTAATTCG |

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| | | <p>AAGCAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATCCTAAGAGATTAGGAGTTCCCTTCGGGGACGCTA AGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCAGCAACGAGCGCAACCCTTATT ATTAGTTGCCAGCATTAAGTTGGGCACTCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAA GTCATCATGCCCCTTATGACCTGGGCTACACACGTGCTACAATGGGCAGTACAACGAGAAGCGAGCCTGCGAAGGCA AGCGAATCTCTGAAAGCTGTTCTCAGTTCGGACTGCAGTCTGCAACTCGACTGCACGAAGCTGGAATCGCTAGTAATC GCGGATCAGAACGCCGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTCACACCATGGAAGTCTGCAATGCC CAAAGCCGGTGGCCTAACCTTCGGGAAGGAGCCGTCTAAGGCAGGGCAGATGACTGGGGTGAAGTCGTAACA</p> |
| | MJM60419-1 | <p>GGCAATGGCGGGGTGCTATACATGCAAGTCGAGCGAGCAGAACCAGCAGATTTACTTCGGTAATGACGCTGGGGACG CGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCATAGTCTAGGATACCACTTGAAACAGGTGCTAATA CCGGATAATAAAGCAGATCGCATGATCAGCTTATAAAAGGCGGCGTAAGCTGTGCTATGGGATGGCCCCGCGGTGC ATTAGCTAGTTGGTAAGGTAACGGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGAACGGCCACATTGG GACTGAGACACGGCCCAAACCTCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCA ACGCCGCGTGAGTGAAGAAGGTTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACTGGCCT TTATTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTT GTCCGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGGA ATTGCATCGGAAACTGTTTTTCTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATAT ATGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACA GGATTAGATAACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTTCCGCCTCTCAGTGCTGCAG CTAACGCATTAAGCACTCCGCCTGGGAGTACGACCAGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAA GCGGTGGAGCATGTGGTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATCCTAAGAGA TTAGGAGTTCCCTTCGGGGACGCTAAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGAGATGTTGGGTTAAG TCCCGCAACGAGCGCAACCCTTATTATTAGTTGCCAGCATTAAAGTTGGGCACCTCTAATGAGACTGCCGGTGACAAAC CGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGGCAGTAC AACGAGAAGCGAGCCTGCGAAGGCAAGCGAATCTCTGAAAGCTGTTCTCAGTTCGGACTGCAGTCTGCAACTCGACT GCACGAAGCTGGAATCGCTAGTAATCGCGGATCAGAACGCCGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCC GTCACACCATGGAAGTCTGCAATGCCCAAAGCCGGTGGCCTAACCTTCGGGAAGGAGCCGTCTAAGCAGTCAGATGC CTG</p> |
| | MJM60419-3 | <p>GGCAATGGCGGGGTGCTATACATGCAAGTCGAGCGAGCAGAACCAGCAGATTTACTTCGGTAATGACGCTGGGGACG CGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCATAGTCTAGGATACCACTTGAAACAGGTGCTAATA CCGGATAATAAAGCAGATCGCATGATCAGCTTATAAAAGGCGGCGTAAGCTGTGCTATGGGATGGCCCCGCGGTGC ATTAGCTAGTTGGTAAGGTAACGGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGAACGGCCACATTGG GACTGAGACACGGCCCAAACCTCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCA ACGCCGCGTGAGTGAAGAAGGTTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACTGGCCT TTATTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTT</p> |

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| | | <p>GTCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGGA ATTGCATCGGAAACTGTTTTCTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATAT ATGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACA GGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTCCGCCTCTCAGTGCTGCAG CTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCGCACAA GCGGTGGAGCATGTGGTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATCCTAAGAGA TTAGGAGTTCCCTTCGGGGACGCTAAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGCTGAGATGTTGGGTAAAG TCCCGCAACGAGCGCAACCCTTATTATTAGTTGCCAGCATTAAAGTTGGGCACCTCTAATGAGACTGCCGGTGACAAAC CGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGGCAGTAC AACGAGAAGCGAGCCTGCGAAGGCAAGCGAATCTCTGAAAGCTGTTCTCAGTTCGGACTGCAGTCTGCAACTCGACT GCACGAAGCTGGAATCGCTAGTAATCGCGGATCAGAACGCCGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCC GTCACACCATGGAAGTCTGCAATGCCAAAGCCGGTGGCCTAACCTTCGGGAAGGAGCCGTCTAAGCAGTCAGATGC CTG</p> |
| <p><i>Lactobacillus johnsonii</i></p> | <p>ATCC 33200</p> | <p>GGCGGCGTGCCTAATACATGCAAGTCGAGCGAGCTTGCCTAGATGATTTTAGTGCTTGCCTAAATGAAACTAGATAC AAGCGAGCGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCAAGAGACTGGGATAACACCTGGAACAGATGCT AATACCGGATAACAACACTAGACGCATGTCTAGAGTTTGAAGATGGTTCTGCTATCACTCTTGGATGGACCTGCGGT GCATTAGCTAGTTGGTAAGGTAATGGCTTACCAAGGCGATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTG GGACTGAGACACGGCCAAACTCCTACGGGAGGCAGCAGTAGGGAATCTCCACAATGGACGAAAGTCTGATGGAGC AACGCCGCGTGAGTGAAGAAGGTTTCGGCTCGTAAAGCTCTGTTGGTAGTGAAGAAAGATAGAGGTAGTAACTGGC CTTTATTTGACGGTAATTAAGTAAAGTACAGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCG TTGTCCGGATTTATTGGGCGTAAAGCGAGTGCAGGCGGTTCAATAAGTCTGATGTGAAACGCTTCGGCTCAACCGGAG AATTGCATCAGAACTGTTGAACTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGAT ATATGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAA CAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTCCGCCTCTCAGTGCTGC AGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCGCAC AAGCGGTGGAGCATGTGGTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCCAGTGCAAACCTAAG AGATTAGGTGTTCCCTTCGGGGACGCTGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGATGAGATGTTGGGTT AAGTCCCGCAACGAGCGCAACCCTTGTCAATTAGTTGCCATCATTAAAGTTGGGCACTCTAATGAGACTGCCGGTGACAA ACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGACGGT ACAACGAGAAGCGAACCTGCGAAGGCAAGCGGATCTCTTAAAGCCGTTCTCAGTTCGGACTGTAGGCTGCAACTCGC CTACACGAAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCGGGCCTTGTACACACCGC CCGTCACACCATGAGAGTCTGTAACACCCAAAGCCGGTGGGATAACCTTTATAGGAGTCAGCCGTCTAAGGTAGGAC AGATGATTAGGGTGAA</p> |
| | <p>LJ_c1-2</p> | <p>TACATGCAAGTCGAGCGAGCTTGCCTAGATGATTTTAGTGCTTGCCTAAATGAAACTAGATACAAGCGAGCGGCGGA</p> |

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| | | <p>CGGGTGAGTAACACGTGGGTAACCTGCCAAGAGACTGGGATAACACCTGGAAACAGATGCTAATACCGGATAACAA CACTAGACGCATGTCTAGAGTTTGAAAGATGGTTCTGCTATCACTCTTGGATGGACCTGCGGTGCATTAGCTAGTTGGT AAGGTAACGGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGC CCAAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGAAAGTCTGATGGAGCAACGCCGCGTGAGTG AAGAAGGGTTTCGGCTCGTAAAGCTCTGTTGGTAGTGAAGAAAGATAGAGGTAGTAACTGGCCTTTATTTGACGGTAA TACTTAGAAAAGTACCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTG GGCGTAAAGCGAGTGCAGGCGGTTCAATAAGTCTGATGTGAAAAGCCTTCGGCTCAACCGGAGAATTGCATCAGAAAC TGTTGAACTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACC AGTGCGAAGGCGGCTCTCTGGTCTGTAAGTACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCC TGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAG CACTCCGCCTGGGGAGTACGACCGCAAGGTTGAACTCAAAGGAATTGACGGGGGCCCGCACAAAGCGGTGGAGCATG TGGTTAATTCGAAGCAACGCGAAGAACCCTACCAGGTCTTGACATCCAGTGCAAACCTAAGAGATTAGGTGTTCCCT TCGGGGACGCTGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGC GCAACCCTTGTCATTAGTTGCCATCATTAAGTTGGGCACTCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGG GATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGACGGTACAACGAGAAGCAAAC CTGCGAAGGCAAGCGGATCTCTTAAAGCCGTTCTCAGTTCGGACTGTAGGCTGCAACTCGCTACACGAAGCTGGAAT CGTAGTAATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTACACCATGAGAG TCTGTAACACCCAAAGCCGGTGGGATAACCTTTATAGGAGTCAG</p> |
| LJ_c3-4 | | <p>GCGGCGTGCCTAATACATGCAAGTCGAGCGAGCTTGCCCTAGATGATTTTGTGCTTGCCTAAATGAACTAGATACA AGCGAGCGGCGGACGGGTGAGTAACACGTGGGTAACCTGCCAAGAGACTGGGATAACACCTGGAAACAGATGCTA ATACCGGATAACAACACTAGACGCATGTCTAGAGTTTGAAAGATGGTTCTGCTATCACTCTTGGATGGACCTGCGGTG CATTAGCTAGTTGGTAAGGTAACGGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGG GACTGAGACACGGCCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGAAAGTCTGATGGAGCA ACGCCGCGTGAGTGAAGAAGGGTTTCGGCTCGTAAAGCTCTGTTGGTAGTGAAGAAAGATAGAGGTAGTAACTGGCC TTTATTTGACGGTAATTACTTAGAAAAGTACCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGT TGTCCGGATTTATTGGGCGTAAAGCGAGTGCAGGCGGTTCAATAAGTCTGATGTGAAAAGCCTTCGGCTCAACCGGAGA ATTGCATCAGAACTGTTGAACTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATA TATGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGTAAGTACGCTGAGGCTCGAAAGCATGGGTAGCGAAC AGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTTCCGCCTCTCAGTGCTGCA GCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAACTCAAAGGAATTGACGGGGGCCCGCACAA AGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCCTACCAGGTCTTGACATCCAGTGCAAACCTAAGA GATTAGGTGTTCCCTTCGGGGACGCTGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTCGTGAGATGTTGGGTTA AGTCCCGCAACGAGCGCAACCCTTGTCATTAGTTGCCATCATTAAGTTGGGCACTCTAATGAGACTGCCGGTGACAAA CCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGACGGTA</p> |

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| | | <p>CAACGAGAAGCGAACCTGCGAAGGCAAGCGGATCTCTTAAAGCCGTTCTCAGTTCGGACTGTAGGCTGCAACTCGCCT ACACGAAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCAGGCGCTTGTACACACCGCCC GTCACACCATGAGAGTCTGTAACACCCAAAGCCGGTGGGATAACCTTTATAGGAGTCAGCCC</p> |
| | LJ_c3-6 | <p>TCGAGCGAGCTTGCCCTAGATGATTTTAGTGCTTGCACTAAATGAAACTAGATACAAGCGAGCGGCGGACGGGTGAGT AACACGTGGGTAACCTGCCCAAGAGACTGGGATAACACCTGGAAACAGATGCTAATACCGGATAACAACACTAGACG CATGTCTAGAGTTTGAAAGATGGTTCTGCTATCACTCTTGATGGACCTGCGGTGCATTAGCTAGTTGGTAAGGTAAC GGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCCAAACCTC CTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGAAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGG GTTTCGGCTCGTAAAGCTCTGTTGGTAGTGAAGAAAGATAGAGGTAGTAACCTGGCCTTTATTTGACGGTAATTACTTA GAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAA AGCGAGTGCAGGCGGTTCAATAAGTCTGATGTGAAAGCCTTCGGCTCAACCGGAGAATTGCATCAGAACTGTTGAA CTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACCAGTGGCG AAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGT CCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCG CCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCCGCACAAGCGGTGGAGCATGTGGTTTA ATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCCAGTGCAAACCTAAGAGATTAGGTGTTCCCTTCGGGGA CGCTGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCC TTGTCATTAGTTGCCATCATTAAAGTTGGGCACTCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACG TCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGGACGGTACAACGAGAAGCAAACCTGCGAA GGCAAGCGGATCTCTTAAAGCCGTTCTCAGTTCGGACTGTAGGCTGCAACTCGCCTACACGAAGCTGGAATCGCTAGT AATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCAGGCGCTTGTACACACCGCCGTCACACCATGAGAGTCTGTAA CACCCAAAGCCGGTGGGAT</p> |
| | LJ_mika1 | <p>AGTCGAGCGAGCTTGCCCTAGATGATTTTGGTGCTTGCACTAAATGAAACTAGATACAAGCGAGCGGCGGACGGGTGA GTAACACGTGGGTAACCTGCCCAAGAGACTGGGATAACACCTGGAAACAGATGCTAATACCGGATAACAACACTAGA CGCATGTCTAGAGTTTGAAAGATGGTTCTGCTATCACTCTTGATGGACCTGCGGTGCATTAGCTAGTTGGTAAGGTA ACGGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCCAAAC TCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGAAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAG GGTTTCGGCTCGTAAAGCTCTGTTGGTAGTGAAGAAAGATAGAGGTAGTAACCTGGCCTTTATTTGACGGTAATTACTT AGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTA AAGCGAGTGCAGGCGGTTCAATAAGTCTGATGTGAAAGCCTTCGGCTCAACCGGAGAATTGCATCAGAACTGTTGA ACTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACCAGTGGC GAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAG TCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCC GCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCCGCACAAGCGGTGGAGCATGTGGTTT</p> |

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| | | AATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCCAGTGCAAACCTAAGAGATTAGGTGTTCCCTTCGGGG ACGCTGAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACC CTTGTCATTAGTTGCCATCATTAAAGTTGGGCACCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGAC GTCAAGTCATCATGCCCCTTATGACCTGGGCTACACACGTGCTACAATGGACGGTACAACGAGAAGCGAACCTGCGA AGGCAAGCGGATCTCTTAAAGCCGTTCTCAGTTCGGACTGTAGGCTGCAACTCGCCTACACGAAGCTGGAATCGCTAG TAATCGCGGATCAGCACGCCCGGTTGAATACGTTCCCGGGCCTTGTACACACCGCCCGTACACCATGAGAGTCTGTA ACACCCAAAGCCGGTGGGAT |
| <i>Lactobacillus kefirano</i> <i>faciens</i> | ATCC 43761 | AGAGTTTGATCATGGCTCAGGACGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGCGGAACCAGCAGAA TCACTTCGGTGAGGACGCTGGGAAAGCGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCTTAAGTCTGGG ATACCACTTGAAACAGGTGCTAATACCGGATAAGAAAGCAGTTCGCATGAACAGCTTTTAAAAGGCGGCGCAAGCT GTCGCTAAAGGATGGACCCGCGGTGCATTAGCTAGTTGGTAAGGTAACGGCCTACCAAGGCAGTGATGCATAGCCGA GTTGAGAGACTGATCGGCCACATTGGGACTGAGACACGGCCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTTCC ACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGTTTTCGGACCGTAAAGCTCTGTTGTTGGTG AAGAAGGATAGAGGTAGTAACTGGCCTTTATTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAG CCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTG ATGTGAAAGCCCTCGGCTTAACCGAGGAATTGCATCGGAAACTGTTTTTCTTGAGTGCAGAAGAGGAGAGTAGAACTC CATGTGTAGCGGTGGAATGCGTAGATATATGGAAGAATACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCT GAGGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAGTGCTAAGTGTT GGGAGGCTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACT CAAAGGAATTGACGGGGGCCCCGACAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGG TCTTGACATCTAGTGCCATTTGTAGAGATACAAAGTTCCCTTCGGGGACGCTAAGACAGGTGGTGCATGGCTGTCGTC AGCTCGTGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCTTGTATTAGTTGCCAGCATTAAAGTTGGGC ACTCTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGG CTACACACGTGCTACAATGGGCAGCACAACGAGCAGCGAGCCTGCAAAGGCAAGCAAATCTCTGAAAGCTGTTCTCA GTTTCGGACTGCAGTCTGCAACTCGACTGCACGAAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATA CGTTCGCGGCTTGTACACACCGCCCGTACACCATGGGAGTCTGCAATGCCCAAAGCCGGTGGCCTAACCGCAAGG AAGGAGCCGTCTAAGGCAGGGCAGATGACTGGGGTGAAGTCGTAACAAGGTAGCCGTAGGAGAACCTGCGGTTGGAT CA |
| | LMG 19149 | GACGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGCGGAACCAGCAGAATCACTTCGGTGAGGACGCTG GGAAAGCGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCTTAAGTCTGGGATACCACTTGAAACAGGTG CTAATACCGGATAAGAAAGCAGTTCGCATGAACAGCTTTTAAAAGGCGGCGCAAGCTGTCGCTAAAGGATGGACCCG CGGTGCATTAGCTAGTTGGTAAGGTAACGGCCTACCAAGGCAGTGATGCATAGCCGAGTTGAGAGACTGATCGGCCA CATTGGGACTGAGACACGGCCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTCCACAATGGACGCAAGTCTGAT GGAGCAACGCCGCGTGAGTGAAGAAGGTTTTTCGGACCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAA |

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| | | <p>CTGGCCTTTATTTGACGGTAATCAACCAGAAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGC AAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAA CCGAGGAATTGCATCGGAAACTGTTTTTCTTGAGTGCAGAAGAGGAGAGTAGAACTCCATGTGTAGCGGTGGAATGC GTAGATATATGGAAGAATACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGT AGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGCTTCCGCCTCTCAG TGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGC CCGCACAAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATT TGTAGAGATACAAAGTTCCCTTCGGGGACGCTAAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGCTGAGATGTT GGGTTAAGTCCCGCAACGAGCGCAACCCCTTGTTATTAGTTGCCAGCATTAAAGTTGGGCACTCTAATGAGACTGCCGGT GACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTACACACGTGCTACAATGG GCAGACAACGAGCAGCGAGCCTGCAAAGGCAAGCAAATCTCTGAAAGCTGTTCTCAGTTCGGACTGCAGTCTGCAA CTCGACTGCACGAAGCTGGAATCGTAGTAATCGCGGATCAGCACGCCGCGGTGAATACGTTCCCGGGCCTTGTACAC ACCGCCCGTCACACCATGGGAGTCTGCAATGCCCAAAGCCGGTGGCCTAACCGCAAGGAAGGAGCCGTCTAAGGCAG GGCAGATGACTGGGGTGAAGTCGTAACAAGGTAGCCGTAGGAGAACC</p> |
| | <p>TMPC 4D128</p> | <p>GTGCACCGGGCGGCGTGCTATACATGCAAGTCGAGCGAGCGGAACCAGCAGAATCACTTCGGTGAGGACGCTGGGAA AGCGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCTTAAGTCTGGGATACCCTTGGAACAGGTGCTAA TACCGGATAAGAAAGCAGTTCGCATGAACAGCTTTTAAAAGGCGGCGCAAGCTGTGCTAAAGGATGGACCCGCGGT GCATTAGCTAGTTGGTAAGGTAACGGCCTACCAAGGCAGTGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATT GGGACTGAGACACGGCCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAG CAACGCCGCGTGAGTGAAGAAGGTTTTTCGGACCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACTGG CCTTTATTTGACGGTAATCAACCAGAAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGC GTTGTCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGA GGAATTGCATCGGAAACTGTTTTTCTTGAGTGCAGAAGAGGAGAGTAGAACTCCATGTGTAGCGGTGGAATGCGTAG ATATATGGAAGAATAACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCG AACAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGCTTCCGCCTCTCAGTGCT GCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGC ACAAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATTTGTA GAGATACAAAGTCCCTTCGGGGACGCTAGACAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGCTGAGATGTGGGTAG TCCGCACGAGCGCACCCCTTGTATAGTGCAGCATAAGTGGGCCCTCTATGAGACTGCGGTGACACGGAGAGGTGGGGAT GACGTCAGTCATCATGCCCTTATGACTGGCTACCACGTGCTAAATGGCAGCCACAGCACGGACCTGCAGCAGCATCTG GAGCGTTTTAGTCGACGACGACTCACTGCAACTGAATCGTGAATCCGATACAACGCGCGGGAATCTTCGCTGTTACCT CCGCCGCTCACACTG</p> |
| | <p>TMPC 4D176</p> | <p>GTGCAAGGGCGGCGTGCTATACATGCAAGTCGAGCGAGTGGAACCAGCAGAATCACTTCGGTGAGGACGCTGGGAAA GCGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCTTAAGTCTGGGATACCCTTGGAACAGGTGCTAAT</p> |

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| | | <p>ACCGGATAAGAAAGCAGTTCGCATGAACAGCTTTTAAAAGGCGGCGCAAGCTGTCGCTAAAGGATGGACCCGCGGTG CATTAGCTAGTTGGTAAGGTAACGGCCTACCAAGGCAGTGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTG GGACTGAGACACGGCCAAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGC AACGCCGCGTGAGTGAAGAAGGTTTTTCGGACCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACTGGC CTTTATTTGACGGTAATCAACCAGAAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCG TTGTCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAG GAATTGCATCGGAAACTGTTTTCTTGAGTGCAGAAGAGGAGAGTAGAACTCCATGTGTAGCGGTGGAATGCGTAGAT ATATGGAAGAATACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAA CAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGTAAAGTGTGGGAGGCTTCCGCCTCTCAGTGCTGC AGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCAC AAGCGGTGGAGCATGTGGGTTAATTCGAAGCAACCGCAAGAACCTTACCAGGTCTTGACATCTAGTGCCATTTGTAG AGATACAAAGTTCCCTTCGGGGACGCTAAGACAGGTGTGCATGGCTGTCGTCAGCTCGTGTGAGATGTGGGTAAG TCCGCACGAGCGCAACCTGTATAGTGCAGCATAAGTGGCACTCTAATGAGAAGTGCCTGACAACGGAGAGGTGGATGA CGTCAGTCATCATGCCCTTATGACTGGCTACACACGTGCTACAATGGTACACAACAGGCAGCGAGCCTGCCAGGCAAG CCA</p> |
| | <p>TMPC 4D178</p> | <p>AAAGCAAATTGCGGGCGTGCCTATACATGCAAGTCGAGCGAGCGGAACCAGCAGAATCACTTCGGTGAGGACGCTGG GAAAGCGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCTTAAGTCTGGGATACCACTTGGAACAGGTGC TAATACCGGATAAGAAAGCAGTTCGCATGAACAGCTTTTAAAAGGCGGCGCAAGCTGTCGCTAAAGGATGGACCCGC GGTGCATTAGCTAGTTGGTAAGGTAACGGCCTACCAAGGCAGTGATGCATAGCCGAGTTGAGAGACTGATCGGCCAC ATTGGGACTGAGACACGGCCAAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATG GAGCAACGCCGCGTGAGTGAAGAAGGTTTTTCGGACCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAAC TGGCCTTTATTTGACGGTAATCAACCAGAAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCA AGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAAC CGAGGAATTGCATCGGAAACTGTTTTCTTGAGTGCAGAAGAGGAGAGTAGAACTCCATGTGTAGCGGTGGAATGCGT AGATATATGGAAGAATACCAGTGGCGAAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTA GCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGTAAAGTGTGGGAGGCTTCCGCCTCTCAGTG CTGCAGCTAACGCATTAAGCACTCCGCCTGGGAGTACGACCCGCAAGGTTGAAACTCAAAGGAATTGACGGGGCCCG CACCACCGGTGGAGCATGGGGTTTATTCCGAAGCAACCGCAAAAACCTTACCAGTCCTGACTTCTAGTGCCATTTGGA AATTACCAAAGTTCCCTTCGGACGCTCAAACACGAGGTGCATGGACTGTCTCCGCTCGAGTCAGCAAAATGTGGTTA ACTCCCGCACGAACGCAACCTCTGGTAATGATGTGCAGGATAAGTGGGCCATCTATGGAAACTGGCCGGTGAACATA CACCGGGAAGAATGGTGGCATGAACGCTCAAAGT</p> |
| <p><i>Lactobacillus ultunensis</i></p> | <p>Lactobacillus ultunensis</p> | <p>GTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCCTAATACATGCAAGTTCGAGCGAGCGGAACCAGCAGATCTG CTTCGGCAGTGACGCTGGGAAAGCGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCAAAGTCTGGGATA CCTTGGAAACAGGTGCTAATACCGGATAAGAAAGCAGATCGCATGATCAGCTTTTAAAAGGCGGCGTAAGCTGTC</p> |

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| | | <p>GCTATGGGATGGCCCCGCGGTGCATTAGCTAGTTGGTAGAGTAACGGCCTACCAAGGCAATGATGCATAGCCGAGTTG AGAGACTGATCGGCCACATTGGGACTGAGACACGGCCAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAA TGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGTTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGA AGGATAGAGGTAGTAACCTGGCCTTTATTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGC GGTAATACGTAGGTGGCAAGCGTTGTCCGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAAAATAAGTCTAATGT GAAAGCCCTCGGCTTAACCGAGGAACTGCATCGGAAACTGTTTTTCTTGAGTGCAGAAGAGGAGAGTGGAACTCCAT GTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGA GGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTTGG GAGGTTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCA AAGGAATTGACGGGGGCCGCACAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTC TTGACATCTAGTGCCATCTTCAGAGATGAAGAGTTCCCTTCGGGGACGCTAAGACAGGTGGTGCATGGCTGTCGTCAG CTCGTGTGTCGTGAGATGTTGGGTTAAGTCCCACAACGAGCGCAACCCTTGTTATTAGTTGCCAGCATTAAAGTTGGGCACT CTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTA CACACGTGCTACAATGGGCAGTACAACGAGAAGCGAGCCTGCGAAGGCAAGCGAATCTCTGAAAGCTGTTCTCAGTT CGGACTGCAGTCTGCAACTCGACTGCACGAAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATACG TTCCCGAGCCTTGTACACACCGCCCGTACACCATGGGAGTCTGCAACGCCCAAAGCCGGTGGCCTAACCGAAAGGA AGGAGCCGTCTAAGGCAGGGCAGATGACTGGGGTGAAGTCGTAACAAGGTAGCCGTAGGAGAACCTGCGGCTGGATC ACCTC</p> |
| | Kx146C1 | <p>GTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAGCGAGCGGAACCAGCAGATCTG CTTCGGCAGTGACGCTGGGAAAGCGAGCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCAAAGTCTGGGATA CCACTTGGAACAGGTGCTAATACCGGATAAGAAAGCAGATCGCATGATCAGCTTTTTAAAAGGCGGGCGTAAGCTGTC GCTATGGGATGGCCCCGCGGTGCATTAGCTAGTTGGTAGAGTAACGGCCTACCAAGGCAATGATGCATAGCCGAGTTG AGAGACTGATCGGCCACATTGGGACTGAGACACGGCCAACTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAA TGGACGCAAGTCTGATGGAGCAACGCCGCGTGAGTGAAGAAGGTTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGA AGGATAGAGGTAGTAACCTGGCCTTTATTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGC GGTAATACGTAGGTGGCAAGCGTTGTCCGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAAAATAAGTCTAATGT GAAAGCCCTCGGCTTAACCGAGGAACTGCATCGGAAACTGTTTTTCTTGAGTGCAGAAGAGGAGAGTGGAACTCCAT GTGTAGCGGTGGAATGCGTAGATATATGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGA GGCTCGAAAGCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTTGG GAGGTTTCCGCCTCTCAGTGCTGCAGCTAACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCA AAGGAATTGACGGGGGCCGCACAAGCGGTGGAGCATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAGGTC TTGACATCTAGTGCCATCTTCAGAGATGAAGAGTTCCCTTCGGGGACGCTAAGACAGGTGGTGCATGGCTGTCGTCAG CTCGTGTGTCGTGAGATGTTGGGTTAAGTCCCACAACGAGCGCAACCCTTGTTATTAGTTGCCAGCATTAAAGTTGGGCACT CTAATGAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGATGACGTCAAGTCATCATGCCCTTATGACCTGGGCTA</p> |

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| | | <p>CACACGTGCTACAATGGGCAGTACAACGAGAAGCGAGCCTGCGAAGGCAAGCGAATCTCTGAAAGCTGTTCTCAGTT CGGACTGCAGTCTGCAACTCGACTGCACGAAGCTGGAATCGCTAGTAATCGCGGATCAGCACGCCGCGGTGAATACG TTCCCGAGCCTTGTACACACCGCCCGTCACACCATGGGAGTCTGCAACGCCCAAAGCCGGTGGCCTAACCGAAAGGA AGGAGCCGTCTAAGGCAGGGCAGATGACTGGGGTGAAGTCGTAACAAGGTAGCCGTAGGAGAACCTGCGGCTGGATC ACCTC</p> |
| | <p>TMPC 4D12A</p> | <p>GGCGTGCGGGAGCTATACATGCAGTCGAGCGAGCGGAACCAGCAGAATCACTTCCGGTGAAGGACGCTGGGAAAGCGA GCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCTTAAGTCTGGGATACCACTTGAAACAGGTGCTAATACCG GATAAGAAAGCAGTTTCGCATGAACAGCTTTTAAAAGGCGGCGCAAGCTGTGCTAAAGGATGGACCCGCGGTGCATT AGCTAGTTGGTAAGGTAACGGCCTACCAAGGCAGTGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGAC TGAGACACGGCCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACG CCGCGTGAGTGAAGAAGGTTTTCGGACCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACCTGGCCTTTA TTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTC CGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGGAATT GCATCGGAAACTGTTTTCTTGAGTGCAGAAGAGGAGAGTAGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATG GAAGAATACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGA TTAGATAACCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGCTTCCGCCTCTCAGTGCTGCAGCTA ACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAAGCG GTGGAGCATGTGGTTAATTGAAGCAACGCGAAGAACCTTACCAGGTCTTGACATCTAGTGCCATTTGTAGAGATA AAAGTTCCCTTCGGGGACGCTAAGAACAGGTGGTGCATGCTGTCGTCAGCTCGTGTGTCGTGAGATGTTGGGTAAGTCCG CACGAGCGCAACCCTTGTATTAGTTGCCAGCATAAGTACACTTCTATGAGACTGCCGGTGACAACGAGGAGGTGGGA TGACGTCAGTCATCATGCCTTATGACTGGCTCACACACGTGCTACATGGCCAGCACGAGGCACGAGACCTGCAAAGTC AAGCAATCTCTTAGAGGCGTGTCTCTCACAGA</p> |
| | <p>TMPC 46M11</p> | <p>CGGCATCGGCGCTATAATGCAGTCGAGCGAGCAGAACCAGCAGATTTACTTCGGTAATGACGCTGGGGACGCGAGCG GCGGATGGGTGATTAACACGTGGGGAACCTGCCCCATAGTCTAGGATACCACTTGAAACAGGTGCTAATACCGGAT AATAAAGCAGATCGCATGATCAGCTTATAAAAGGCGGCGTAAGCTGTGCTATGGGATGGCCCCGCGGTGCATTAGCT AGTTGGTAAGGTAACGGCTTACCAAGGCAATGATGCATAGCCGAGTTGAGAGACTGAACGGCCACATTGGGACTGAG ACACGGCCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGC GTGAGTGAAGAAGGTTTTCGGATCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAACCTGGCCTTTATTTG ACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTCCGG ATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGGAATTGCA TCGGAAACTGTTTTCTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATGGAA GAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGATTA GATAACCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGTTTTCCGCCTCTCAGTGCTGCAGCTAACG CATTAAAGCACTCCGCCTGGGGAGTACGACCGCAAGGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAAGCGGT</p> |

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| | | <p>GGAGCATGTGGGTTTAATTCGAAGCAACGCGAAGAACCCTTACCAGGTCTTGACATCTAGTGCATCCTAAGAGATTAGG AGTTCCCTTTTCGGGGACGCTAAGACAGGTGTGCATGACTGTCGTCAGCTCGTGTGAGATGTGGGTAGTCCGCACG AGCGCACCTATATAGTGCAGCATAGGTGGCACTCTATGAGACTGACGATGAACAACCGGAGG</p> |
| | <p>TMPC4D171</p> | <p>GGCAGGCACGGCTATACATGCAAGTTCGAGCGAGTGGAAACCAGCAGAATCACTTCCGGTGAGGACGCTGGGAAAGCGA GCGGCGGATGGGTGAGTAACACGTGGGGAACCTGCCCTTAAGTCTGGGATACCACTTGGAAACAGGTGCTAATACCG GATAAGAAAGCAGTTTCGCATGAACAGCTTTTAAAAGGCGGCGCAAGCTGTGCTAAAGGATGGACCCGCGGTGCATT AGCTAGTTGGTAAGGTAACGGCCTACCAAGGCAGTGATGCATAGCCGAGTTGAGAGACTGATCGGCCACATTGGGAC TGAGACACGGCCCAAACCTCCTACGGGAGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACG CCGCGTGAGTGAAGAAGGTTTTTCGGACCGTAAAGCTCTGTTGTTGGTGAAGAAGGATAGAGGTAGTAAGTGGCCTTTA TTTGACGGTAATCAACCAGAAAGTCACGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGTGGCAAGCGTTGTC CGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAAGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGGAATT GCATCGGAAACTGTTTTCTTGAGTGCAGAAGAGGAGAGTAGAACTCCATGTGTAGCGGTGGAATGCGTAGATATATG GAAGAATACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGGA TTAGATAACCTGGTAGTCCATGCCGTAACGATGAGTGCTAAGTGTGGGAGGCTTCCGCCTCTCAGTGCTGCAGCTA ACGCATTAAGCACTCCGCCTGGGGAGTACGACCGCAAGGTTGAAACTCAAGGAATTGACGGGGGCCGCACAAGCGG TGGAGCATGTGGTTTAATTCGAGCACGCGAGATCTTACCAGGTCTTGACATCTAGTGCATTTGTAGAGATAACAAGTTC CTTCGGGACGCTAGACAGTGATGCATGCTGTCGTCAGCTCGTGTGAGATGTTGGGTAGTCCCGCACGAGCGCAAC CTTGTTATTAGTTG</p> |
| <p>GS01</p> | <p>JCP8108</p> | <p>GGATCTGACCAGCTTGCTGGTTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAA TAGCTCTTGAAACGGGTGGTAATGCTGGATGCTCCAACCTTACGCATGTCTTGTGGGAAAGTGTTTAGTGGCATGG GATGGGGTCGCGTCCTATCAGCTTGTAGGCGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGG CGGACGGCCACATTGGGACTGAGATACGGCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGG GAACCCTGACGCAGCGACCGCGGTGCGGGATGAAGGCCTTCGGGTTGTAACCGCTTTTGATTGGGAGCAAGCGGG TGAGTGTACCTTTTGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTATCCG GAATTATTGGGCGTAAAGAGCTTGTAGGCGGTTCTGTCGCGTCTGGTGTGAAAGCCATCGCTTAACGGTGGGTTTTCG CCGGGTACGGGCGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCTCGGTGTAACGGTGGAAATGTGTAGATATCGGGA AGAACACCAATGGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATT AGATAACCTGGTAGTCCACGCCGTAACGGTGGACGCTGGATGTGGGGCCCATTCACGGGTTCTGTGTGCGGAGCTAA CGCGTTAAGCGTCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCGCACAAGCGG CGGAGCATGCGGATTAATTCGATGCAACGCGAAGAACCCTTACCTGGGCTTGACATGTGCTGACGACTGCAGAGATGT GGTTTCCTTTTCGGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGC AACGAGCGCAACCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACTCACGGGGGACC CGCGGGGTTAACTCGGA GGAAGGTGGGGATGACGTGAGATCATCATGCCCTTACGTCCAGGGCTTACGCATGCTACAATGGCCAGTACAACGG GTTGCTTCATGGTGACATGGTGCTAATCCCTTAAAACCTGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAA</p> |

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| | | <p>GGCGGAGTCGCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGTACACACCGCCCGTCAAGTCATGAAAGTGGGCAGCACCCGAAGCCGGTGGCCTAACCCTTTTGGGATGGAGCCGTCTAAGGTGAGGCT</p> |
| | UGent25.49 | <p>TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGGGTGCTTAACACATGCAAGTCGAACGGGATCTGACCAGCTTGCTGGTTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTGAAACGGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAGTGTTAGTGGCATGGGATGGGGTCGCGTCTATCAGCTTGTAGGCGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATTGGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCTGACGCAGCGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTGATTGGGAGCAAGCCTTTTGGGTGAGTGTACCTTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGTAATACGTAGGGCGCAAGCAGTTATCCGGAATTATTGGCGTAAAGAGCTTGTAGGCGGTTCTGTCGCGTCTGGTGTGAAAGCCATCGCTTAACGGTGGGTTTTCGCGCCGGGTACGGCGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCTCGGTGTAACGGTGGAAATGTGTAGATATCGGGAAGAACACCAATGGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGTAGTCCACGCCGTAACCGGTGGACGCTGGATGTGGGGCCATTCCACGGGTTCTGTGTTCGGAGCTAACCGGTTAAGGTCCCCTGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCGCACAAGCGGCGGAGCATGGGATTAATTCGATGCAACGCGAAGAACCCTTACCTGGGCTTGACATGTGCCTGACGACTGCAGAGATGTGGTTTCCTTTTCGGGGCAGGTTACAGGTGGTGCATGGTCTGTCGTCAGCTCGTGTGTCGTGAGATGTTGGGTTAAGTCCCAGCAACGAGCGCAACCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACCTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGGGGATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTCACGCATGCTACAATGGCCAGTACAACGGGTTGCTTCAATGGTGACATGGTGTAACTCCCTTAAAACCTGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGTCGCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGTACACACCGCCCGTCAAGTCATGAAAGTGGGCAGCACCCGAAGCCGGTGGCCTAACCCTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAAGTTCGTAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTT</p> |
| | UGent09.01 | <p>TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGGGTGCTTAACACATGCAAGTCGAACGGGATCTGACCAGCTTGCTGGTTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTGAAACGGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAGTGTTAGTGGCATGGGATGGGGTCGCGTCTATCAGCTTGTAGGCGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATTGGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCTGACGCAGCGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTGATTGGGAGCAAGCCTTTTGGGTGAGTGTACCTTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGTAATACGTAGGGCGCAAGCAGTTATCCGGAATTATTGGCGTAAAGAGCTTGTAGGCGGTTCTGTCGCGTCTGGTGTGAAAGCCATCGCTTAACGGTGGGTTTTCGCGCCGGGTACGGCGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCTCGGTGTAACGGTGGAAATGTGTAGATATCGGGAAGAACACCAATGGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGTAGTCCACGCCGTAACCGGTGGACGCTGGATGTGGGGCCATTCCACGGGTTCTGTGTTCGGAGCTAACCGGTTAAGGTCCCCTGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCGCACAAGCGGCGGAGCATGGG</p> |

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| | | <p>GGATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGACGACTGCAGAGATGTGGTTTCCTTT CGGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTCTGAGATGTTGGGTTAAGTCCCAGCAACGAGCGC AACCCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACCTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGG GGATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTCACGCATGCTACAATGGCCAGTACAACGGGTTGCTTCA TGGTGACATGGTGCTAATCCCTTAAAACTGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGT CGCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCGCCGGCCTTGTACACACCGCCCGTCAAGTCATGAAA GTGGGCAGCACCCGAAGCCGGTGGCCTAACCCCTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAA GTCGTAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTT</p> |
| | UGent09.07 | <p>TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGGCTGCTTAACACATGCAAGTCGAACGGGATCTGACCAGCT TGCTGGTTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTGAAAC GGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAGTGTAGTGGCATGGGATGGGGTCGCGTC CTATCAGCTTGTAGGCGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATT GGGACTGAGATACGGCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCCTGACGCAG CGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTGATTGGGAGCAAGCCTTTTGGGTGAGTGTACC TTTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTATCCGGAATTATTGG GCGTAAAGAGCTTGTAGGCGGTTCTGTCGCGTCTGGTGTGAAAGCCATCGCTTAACGGTGGGTTTTCGCCGGGTACGG GCGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCTCGGTGTAACGGTGAATGTGTAGATATCGGGAAGAACAACCAA TGGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTG GTAGTCCACGCCGTAACGGTGGACGCTGGATGTGGGGCCATTCCACGGGTTCTGTGTGCGGAGCTAACGCGTTAAGC GTCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCGCACAAGCGGCGGAGCATGC GGATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGACGACTGCAGAGATGTGGTTTCCTTT CGGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTCTGAGATGTTGGGTTAAGTCCCAGCAACGAGCGC AACCCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACCTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGG GGATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTCACGCATGCTACAATGGCCAGTACAACGGGTTGCTTCA TGGTGACATGGTGCTAATCCCTTAAAACTGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGT CGCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCGCCGGCCTTGTACACACCGCCCGTCAAGTCATGAAA GTGGGCAGCACCCGAAGCCGGTGGCCTAACCCCTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAA GTCGTAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTT</p> |
| | ATCC14018 _2 | <p>TTTCGTGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCNAGTCGAACGGGATCTGAC CAGCTTGCTGGTTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTG GAAACGGGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAGTGTAGTGGCATGGGATGGGGTC GCGTCCTATCAGCTTGTAGGCGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCC ACATTGGGACTGAGATACGGCCAGACTNCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCCTGA CGCAGCGACGNCGCGTGCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTGATTGGGAGCAAGCCTTTTGGGTGAGT</p> |

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| | | <p>GTACCTTTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGGCGCAAGCGTTATCCGGAATT ATTGGGCGTAAAGAGCTTGTAGGCGGTTCTGTCGCGTCTGGTGTGAAAGCCCATCGCTTAAACGGTGGGNTTGCGCCGGG TACGGGCGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCTCGGTGTAACGGTGGAAATGTGTAGATATCGGGAAGAAC ACCAATGGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATA CCCTGGTAGTCCACGCCGTAAACGGTGGACGCTGGATGTGGGGCCCATTCCACGGGTTCTGTGTCCGAGCTAACCGT TAAGCGTCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCNGCACAAGCGGCGGA GCATGCGGATTAATTCGATGNAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGACGACTGCAGAGATGTGGTT TCCNTTCGGGGCAGGTTACAGGTGGTGCATGGTCGTCTGTCAGCTCGTGTCTGTGAGATGTTGGGTTAAGTCCCGCAAC GAGCGCAACCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACTCACGGGGGACCGCCGGGGTTACCNCGGAGGA AGTGGGNATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTACGCATGCTACAATGGCCAGTACAACGGGTT GCTTCATGGTGACATGGTGTAAATCCCTTAAAACCTNGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGG CGGAGTCGCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGACACACCGCCCGTCAAGTC ATGAAAGTGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGG G</p> |
| GS02 | UGent21.28 | <p>TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGAACGGGATCCGACCAGCT TGCTGGTTGGTGAAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTGAAAC GGGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAGTGTAGTGGCATGGGATGGGGTTCGCGTC CTATCAGCTTGTAGGCGGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATT GGGACTGAGATACGGCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGAAACCCTGACGCAG CGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAACCGCTTTTGATTGGGAGCAAGCTTTCGGGTGAGTGTACCT TTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGGCGCAAGCGTTATCCGGAATTATTGGG CGTAAAGAGCTTGTAGGCGGTTTCGTGCGCTCTGGTGTGAAAGCCCATCGCTTAAACGGTGGGTTTGCGCCGGGTACGGG CGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCGGGTGTAACGGTGGAAATGTGTAGATATCGGGAAGAACACCAAT GGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGG TAGTCCACGCCGTAAACGGTGGACGCTGGATGTGGGGCCATTCCACGGGTTCTGTGTCCGAGCTAACCGTAAAGCG TCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCCGCACAAAGCGGCGGAGCATGCG GATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGTCGACTGCAGAGATGTGGTTTTCCCTTC GGGGCAGGTTACAGGTGGTGCATGGTCGTCTGTCAGCTCGTGTCTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCA ACCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGGG GATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTACGCATGCTACAATGGCCGGTACAACGGGATGCGACAT GGTGACATGGAGCGGATCCCTTAAAACCGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGTC GCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGACACACCGCCCGTCAAGTCATGAAAG TGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAAGT CGTAAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTT</p> |

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| | UGent1801 | <p>GTGAGTGTACCTTTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTATCC GGAATTATTGGGCGTAAAGAGCTTGTAGGCCGTTTCGTTCGCGTCTGGTGTGAAAGCCCATCGCTTAACGGTGGGTTTGC GCCGGGTACGGGCGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCCTGGTGTAAACGGTGGAAATGTGTAGATATCGGG AAGAACACCAATGGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGA TTAGATACCCTGGTAGTCCACGCCGTAACGGTGGACGCTGGATGTGGGGCCCATTCCACGGGTTCTGTGTTCGGAGCT AACGCGTTAAGCGTCCCGCTGGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCCCGCACAAGC GGCGGAGCATGCGGATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGTCGACTGCAGAGAT GTGGTTTCCCTTCGGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTGTCGTGAGATGTTGGGTAAAGTCCC GCAACGAGCGCAACCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACTCACGGGGGACCGCCGGGGTTAACTCG GAGGAAGGTGGGGATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTCACGCATGCTACAATGGCCGGTACAAC GGGATGCGACATGTTGACATGGAGCGGATCCCTTAAACCGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGT GAAGGCGGAGTCGCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGACACACCGCCCGTC AAGTCATGAAAGTGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTG ATTGGGACTAAGTCGTAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTT</p> |
| GS03 | GS9838 | <p>TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGAACGGGATCTAGTCAGCT TGCTGACTGGTGTAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTGAAAC GGGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAGTGTTTAGTGGCATGGGATGGGGTTCGCGTC CTATCAGCTTGTAGGCGGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATT GGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCTGACGCAG CGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAACCGCTTTTGATTGGGAGCAAGCCTTCGGGTGAGTGTACCT TTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTATCCGGAATTATTGGG CGTAAAGAGCTTGTAGGCGGTTTCGTTCGCGTCTGGTGTGAAAGCCCATCGCTTAACGGTGGGTCTGCGCCGGGTACGGG CGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCCTGGTGTAAACGGTGGAAATGTGTAGATATCGGGAAGAACACCAAT GGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGG TAGTCCACGCCGTAAACGGTGGACGCTGGATGTGGGGCCCATTCCACGGGTTCCGTGTCGGAGCTAACCGTTAAGCG TCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCCCGCACAAGCGGCGGAGCATGCG GATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGTCGACTGCAGAGATGTGGTTTCCCTTC GGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTGTCGTGAGATGTTGGGTAAAGTCCCGCAACGAGCGCA ACCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGGG GATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTCACGCATGCTACAATGGCCGGTACAACGGGATGCGACAT GGTGACATGGAGCGGATCCCTTAAACCGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGTC GCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGACACACCGCCCGTCAAGTCATGAAAG TGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAAGT CGTAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTT</p> |

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| | UGent06.41 | <p>TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGGCGTGCTTAACACATGCAAGTCGAACGGGATCTAGTCAGCT TGCTGACTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTGAAAC GGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAGTGTTAGTGGCATGGGATGGGGTCGCGTC CTATCAGCTTGTAGGCGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATT GGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCTGACGCAG CGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTGATTGGGAGCAAGCCTTTTGGGTGAGTGTACC TTTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTATCCGGAATTATTGG GCGTAAAGAGCTTGTAGGCGGTTTCGTCGCGTCTGGTGTGAAAGCCCATCGCTTAACGGTGGGTCTGCGCCGGGTACGG GCGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCCCAGTGTAAACGGTGGAAATGTGTAGATATCGGGAAGAACACCAA TGGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGAGCGAACAGGATTAGATACCCTG GTAGTCCACGCCGTAACGGTGGACGCTGGATGTGGGGCCATTCCACGGGTTCCGTGTGCGAGCTAACCGGTTAAGC GTCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCCGCACAAAGCGGCGGAGCATGC GGATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGTCGACTGCAGAGATGTGGTTCCCTT CGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGC AACCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGAACTCACGGGGACC CGCGGGGTTAACTCGGAGGAAGGTGG GGATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTCACGCATGCTACAATGGCCGGTACAACGGGATGCGACA TGGTGACATGGAGCGGATCCCTTAAACCGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGT CGCTAGTAATCGGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGTACACACCGCCCGTCAAGTCATGAAA GTGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAA GTCGTAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTT</p> |
| | UGent09.48 | <p>TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGGCGTGCTTAACACATGCAAGTCGAACGGGATCTAGTCAGCT TGCTGACTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTGAAAC GGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAGTGTTAGTGGCATGGGATGGGGTCGCGTC CTATCAGCTTGTAGGCGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATT GGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCTGACGCAG CGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTGATTGGGAGCAAGCCTTCGGGTGAGTGTACCT TTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTATCCGGAATTATTGGG CGTAAAGAGCTTGTAGGCGGTTTCGTCGCGTCTGGTGTGAAAGCCCATCGCTTAACGGTGGGTCTGCGCCGGGTACGGG CGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCCCAGTGTAAACGGTGGAAATGTGTAGATATCGGGAAGAACACCAAT GGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGAGCGAACAGGATTAGATACCCTGG TAGTCCACGCCGTAACGGTGGACGCTGGATGTGGGGCCATTCCACGGGTTCCGTGTGCGAGCTAACCGGTTAAGCG TCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCCGCACAAAGCGGCGGAGCATGCG GATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGTCGACTGCAGAGATGTGGTTTCCCTTC GGGCGAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCA</p> |

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| | | <p>ACCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGGG GATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTACGCATGCTACAATGGCCGGTACAACGGGATGCGACAT GGTGACATGGAGCGGATCCCTTAAAACCGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGTC GCTAGTAATCGCGAATCAGCAACGTTCGCGGTGAATGCGTTCCCGGGCCTTGTACACACCGCCCGTCAAGTCATGAAAG TGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAAGT CGTAAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTT</p> |
| GS04 | JCP8481 | <p>ATGCAAGTCGAACGGGATCCGACCAGCTTGCTGGTTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTG CCCCATGCTCCAGAATAGCTCTTGGAAACGGGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAG TGTTTAGTGGCATGGGATGGGGTCGCGTCTATCAGCTTGTAGGCGGGGTAATGGCCACCTAGGCTTCGACGGGTAG CCGGCCTGAGAGGGCGGACGGCCACATTGGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATA TTGCGCAATGGGGGAAACCCTGACGCAGCGACGCCGCGTTCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTATT GGGAGCAAGCTTTCGGGTGAGTGTACCTTTCGAATAAGCGCCGGTAACTACGTGCCAGCAGCCGCGGTAATACGTAG GGCGAAGCGTTATCCGGAATTATTGGGCGTAAAGAGCTTGTAGGCGGTTTCGTTCGCGTCTGGTGTGAAAGCCCATCGC TTAACGGTGGGTTTTCGCGGGGTACGGGCGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCCCGGTGTAACGGTGGG ATGTGTAGATATCGGGAAGAACACCAATGGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGT GGGAGCGAACAGGATTAGATACCCTGGTAGTCCACGCCGTAAACGGTGGACGCTGGATGTGGGGCCCATTCCACGG GTTCTGTGTTCGGAGCTAACGCGTTAAGCGTCCCGCCTGGGGAGTACGGCCGCAAGGCTAAACTCAAAGAAATTGAC GGGGCCCCGCACAAGCGGCGGAGCATGCGGATTAATTCGATGCAACGCGAAGAACCCTTACCTGGGCTTGACATGTGC CTGTGACTGCAGAGATGTGGTTTCCCTTCGGGGCAGGTTACAGGTGGTGCATGGTTCGTCGTCAGCTCGTGTGCTGA GATGTTGGGTAAAGTCCCACAACGAGCGCAACCCTCGCCCTGTGTTGCCAGCGGGTATGCCGGGAACTCACGGGGGA CCGCCGGGTAACTCGGAGGAAGGTGGGGATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTCACGCATGCT ACAATGGCCGGTACAACGGGATGCGACATGGTGACATGGAGCGGATCCCTTAAAACCGGTCTCAGTTCGGATCGTAG TCTGCAACTCGACTACGTGAAGGCGGAGTCGCTAGTAATCGCGAATCAGCAACGTTCGCGGTGAATGCGTTCCCGGGCC TTGTACACACCGCCCGTCAAGTCATGAAAGTGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTGGGATGGAGCCGT CTAAGGTGAGG</p> |
| GS05 | UMB1686 | <p>TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGAACGGGATCTAGTCAGCT TGCTGACTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTGGAAAC GGGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAGTGTTTAGTGGCATGGGATGGGGTCGCGTC CTATCAGCTTGTAGGCGGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATT GGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCTGACGCAG CGACGCCGCGTTCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTATTGGGAGCAAGCCTTCGGGTGAGTGTACCT TTCGAATAAGCGCCGGTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTATCCGGAATTATTGGG CGTAAAGAGCTTGTAGGCGGTTTCGTTCGCGTCTGGTGTGAAAGCCCATCGCTTAAACGGTGGGTCTGCGCCGGGTACGGG CGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCCCGGTGTAACGGTGGAAATGTGTAGATATCGGGAAGAACACCAAT</p> |

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| | | GGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGG TAGTCCACGCCGTAAACGGTGGACGCTGGATGTGGGGCCCATTCCACGGGTTCGGTGTGGAGCTAACGCGTAAAGCG TCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACTCAAAGAAATTGACGGGGGGCCCGCACAAAGCGGCGGAGCATGCG GATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGACAGCTGCAGAGATGTGGTTTTCCCTTC GGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCA ACCCTCGCCCTGTGTTGCCAGCGGGTATGCCGGGAACTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGGG GATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTACGCATGCTACAATGGCCGGTACAACGGGATGCGACAT GGTGACATGGAGCGGATCCCTTAAAACCGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGTC GCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGTACACACCGCCCGTCAAGTCATGAAAG TGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAAGT CGTAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTT |
| | 6119V5 | TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGAACGGGATCTAGTCAGCT TGCTGACTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTGAAAC GGGTGGTAATGCTGGATGCTCCAACCTTGACGCATGTCTTGTTGGGAAAGTGTTTAGTGGCATGGGATGGGGTTCGCGTC CTATCAGCTTGTAGGCGGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATT GGGACTGAGATACGGCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCTGACGCAG CGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAACCGCTTTTGATTGGGAGCAAGCTTTCGGGTGAGTGTACCT TTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGTAATACGTAGGGCGCAAGCGTTATCCGGAATTATTGGG CGTAAAGAGCTTGTAGGCGGTTTCGTCGCGTCTGGTGTGAAAGCCCATCGCTTAACGGTGGGTCTGCGCCGGGTACGGG CGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCCCGGTGTAAACGGTGGAAATGTGTAGATATCGGGAAGAACACCAAT GGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGG TAGTCCACGCCGTAAACGGTGGACGCTGGATGTGGGGCCCATTCCACGGGTTCGGTGTGGAGCTAACGCGTAAAGCG TCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACTCAAAGAAATTGACGGGGGGCCCGCACAAAGCGGCGGAGCATGCG GATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGACAGCTGCAGAGATGTGGTTTTCCCTTC GGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCA ACCCTCGCCCTGTGTTGCCAGCGGGTATGCCGGGAACTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGGG GATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTACGCATGCTACAATGGCCGGTACAACGGGATGCGACAT GGTGACATGGAGCGGATCCCTTAAAACCGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGTC GCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGTACACACCGCCCGTCAAGTCATGAAAG TGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAAGT CGTAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTT |
| GS06 | GED7760B | TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGAACGGGATCCGACCAGCT TGCTGGTTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTGAAAC GGGTGGTAATGCTGGATGCTCCAACCTTGACGCATGTCTTGTTGGGAAAGTGTTTAGTGGCATGGGATGGGGTTCGCGTC |

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| | | <p>CTATCAGCTTGTAGGCGGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATT GGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCTGACGCAG CGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTGATTGGGAGCAAGCTTTCGGGTGAGTGTACCT TTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTATCCGGAATTATTGGG CGTAAAGAGCTTGTAGGCGGTTTCGTCGCGTCTGGTGTGAAAGCCCATCGCTTAACGGTGGGTTTTCGCGCCGGGTACGGG CGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCGCGGTGTAACGGTGGAAATGTGTAGATATCGGGAAGAACACCAAT GGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGG TAGTCCACGCCGTAAACGGTGGACGCTGGATGTGGGGCCATTCCACGGGTTCTGTGTCTGGAGCTAACGCGTTAAGCG TCCCGCCTGGGGAGTACGGCCGCAAGGCTAAACTCAAAGAAATTGACGGGGGCCCGCACAAAGCGGCGGAGCATGCG GATTAATTCGATGCAACCGGAAGAACCTTACCTGGGCTTGACATGTGCCTGACGACTGCAGAGATGTGGTTTCCCTTC GGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTCTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCA ACCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGGG GATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTCACGCATGCTACAATGGCCGGTACAACGGGATGCGACAT GGTGACATGGAGCGGATCCCTTAAAACCGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGTC GCTAGTAATCGGAATCAGCAACGTTCGCGGTGAATGCGTTCCCGGGCCTTGTACACACCGCCCGTCAAGTCATGAAAG TGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAAGT CGTAAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTT</p> |
| GS07 | CMW7778B | <p>TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGAACGGGATCTGACCAGCT TGCTGGTTGGTGTAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTACCCTATGCTCCAGAATAGCTCCTGGAAAC GGGTGGTAATGCTGGATGCTCCAACCTGACGCATGTTTTGTTGGGAAAGTGTTTAGCGGCATGGGATGGGGTTCGCGTC CTATCAGCTTGTAGGCGGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATT GGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCTGACGCAG CGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTGATTGGGAGCAAGCCTTCGGGTGAGTGTACCT TTCGAATAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTATCCGGATTTATTGGG CGTAAAGAGCTTGTAGGCGGTTTCGTCGCGTCTGGTGTGAAAGCCCATCGCTTAACGGTGGGTCTGCGCCGGGTACGGG CGGGCTAGAGTGCAGTAGGGGAAACTGGAATTCGCGGTGTAACGGTGGAAATGTGTAGATATCGGGAAGAACACCAAT GGCGAAGGCAGGTTTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGG TAGTCCACGCCGTAAACGGTGGACGCTGGATGTGGGGCCATTCCACGGGTTCCGTGTCTGGAGCTAACGCGTTAAGCG TCCCGCCTGGGGAGTACGGCCGCAAGGCTAAACTCAAAGAAATTGACGGGGGCCCGCACAAAGCGGCGGAGCATGCG GATTAATTCGATGCAACCGGAAGAACCTTACCTGGGCTTGACATGTGCCTGATGACTGCAGAGATGTGGTTTCCCTTC GGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTCTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCA ACCCTCGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGGG GATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTCACGCATGCTACAATGGCCGGTACAACGGGGTGCACAT GGTGACATGGAGCTAATCCCTTAAAACCGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGTC</p> |

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| | | GCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGTACACACCGCCCGTCAAGTCATGAAAAG TGGGCAGCACCCGAAGCCGGTGGCCTGACCTTTTTGGAGGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAAGTC GTAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTT |
| GS08 | KA0025 | TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGGCTGCTTAACACATGCAAGTCGAACGGGATCTGACCAGCT TGCTGGTTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTACCCCATGCTCCAGAATAGCTCCTGGAAAC GGGTGGTAATGCTGGATGCTCCAACCTGACGCATGTTTTGTTGGGAAAGTGTTTAGCGGCATGGGATGGGGTCGCGTC CTATCAGCTTGTAGGCGGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCCACATT GGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCTGACGCAG CGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTGATTGGGAGCAAGCTTTCGGGTGAGTGTACCT TTCGAATAAGCGCCGGTAACACTACGTGCCAGCAGCCGCGTAATACGTAGGGCGCAAGCGTTATCCGGAATTATTGGG CGTAAAGAGCTTGTAGGCGGTTTCGTCGCGTCTGGTGTGAAAGCCCATCGCTTAACGGTGGGTCTGCGCCGGGTACGGG CGGGCTAGAGTGCAGTAGGGGAAACTGGAATTCTCGGTGTAAACGGTGGAAATGTGTAGATATCGGGAAGAACAACCAAT GGCGAAGGCAGGTTTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGG TAGTCCACGCCGTAAACGGTGGACGCTGGATGTGGGGCCCATTCCACGGGTTCCGTGTCGGAGCTAACGCGTTAAGCG TCCCGCCTGGGGAGTACGGCCGCAAGGCTAAACTCAAAGAAATTGACGGGGGCCCGCACAAAGCGCGGAGCATGCG GATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGACGACTGCAGAGATGTGGTTTCCTTTC GGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCA ACCCTCGCCCTGTGTTGCCAGCGGGTATGCCGGGAACTCACGGGGGACCGCCGGGGTTAACTCGGAGGAAGGTGGG GATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTACGCATGCTACAATGGCCAGTACAACGGGTTGCGACAT GGTGACATGGAGCTAATCCCTTAAACTGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGCGGAGTC GCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGTACACACCGCCCGTCAAGTCATGAAAAG TGGGCAGCACCCGAAGCCGGTGGCCTAACCTTTTTGGGATGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGACTAAGT CGTAAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTTT |
| GS | | NR010TGGAGGGTTCGATTCTGGCTCAGGATGAACGCTGGCGGGCTGCTTAACACATGCAAGTCGAACGGGATCTGAC CAGCTTGCTGGTTGGTGAGAGTGGCGAACGGGTGAGTAATGCGTGACCAACCTGCCCATGCTCCAGAATAGCTCTTG GAAACGGGTGGTAATGCTGGATGCTCCAACCTGACGCATGTCTTGTGGGAAAGTGTTTAGTGGCATGGGATGGGGTC GCGTCCTATCAGCTTGTAGGCGGGGTAATGGCCACCTAGGCTTCGACGGGTAGCCGGCCTGAGAGGGCGGACGGCC ACATTGGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCGCAATGGGGGAAACCCTGA CGCAGCGACGCCGCGTGCGGGATGAAGGCCTTCGGGTTGTAAACCGCTTTTGATTGGGAGCAAGCTTTCGGGTGAGTG TACCTTTCGAATAAGCGCCGGTAACACTACGTGCCAGCAGCCGCGTAATACGTAGGGCGCAAGCGTTATCCGGAATTA TTGGGCGTAAAGAGCTTGTAGGCGGTTTCGTCGCGTCTGGTGTGAAAGCCCATCGCTTAACGGTGGGTCTGCGCCGGGT ACGGGCGGGCTAGAGTGCAGTAGGGGAGACTGGAATTCGGGTGTAAACGGTGGAAATGTGTAGATATCGGGAAGAACA CCAATGGCGAAGGCAGGTCTCTGGGCTGTTACTGACGCTGAGAAGCGAAAGCGTGGGGAGCGAACAGGATTAGATAC CCTGGTAGTCCACGCCGTAAACGGTGGACGCTGGATGTGGGGCCCATTCCACGGGTTCCGTGTCGGAGCTAACGCGTT |

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| | | AAGCGTCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACCTCAAAGAAATTGACGGGGGCCCCGCACAAGCGGCGGAG CATGCGGATTAATTCGATGCAACGCGAAGAACCTTACCTGGGCTTGACATGTGCCTGTCGACTGCAGAGATGTGGTTT CCCTTCGGGGCAGGTTACAGGTGGTGCATGGTCGTCGTCAGCTCGTGTGAGATGTTGGGTAAAGTCCCGCAACG AGCGCAACCCTTGCCCTGTGTTGCCAGCGGGTTATGCCGGGAACTCACGGGGGACCGCCGGGGTAACTCGGAGGAA GGTGGGGATGACGTCAGATCATCATGCCCTTACGTCCAGGGCTTCACGCATGCTACAATGGCCAGTACAACGGGTTG CGACATGGTGACATGGAGCTAATCCCTTAAAACCTGGTCTCAGTTCGGATCGTAGTCTGCAACTCGACTACGTGAAGGC GGAGTCGCTAGTAATCGCGAATCAGCAACGTCGCGGTGAATGCGTTCCCGGGCCTTGTACACACCGCCCGTCAAGTCA TGAAAGTGGGCAGCACCCGAAGCCGGTGGCCTGACCTTTTTGGAGGGAGCCGTCTAAGGTGAGGCTCGTGATTGGGA CTAAGTCGTAACAAGGTAGCCGTACCGGAAGGTGCGGCTGGATCACCTCCTT |
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