

<110> CJ CheilJedang Corporation
 <120> Novel promoter and use thereof
 <130> OPA22002
 <150> KR10-2021-0061306
 <151> 2021-05-12
 <160> 28
 <170> KoPatentIn 3.0
 <210> 1
 <211> 330
 <212> DNA
 <213> Corynebacterium glutamicum

<400> 1
 attctttgtg gtcatatctg tgcgacactg ccataattga acgtgagcat ttaccagcct 60
 aaatgcccgc agtgagttaa gtctcaaagc aagaagttgc tctttagggc atccgtagtt 120
 taaaactatt aaccgttagg tatgacaagc cggttgatgt gaacgcagtt tttaaaagtt 180
 tcaggatcag atttttcaca ggcattttgc tccagcaaac gcctaggatg tacatggtgc 240
 cctcaatggg aaccaccaac atcactaaat ggcccaggta cacactttaa aatcgtgcgc 300
 gcatgcagcc gagatgggaa cgaggaaatc 330

<210> 2
 <211> 330
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Pm3gdh

<400> 2
 attctttgtg gtcatatctg tgcgactgtg gtatacttga acgtgagcat ttaccagcct 60
 aaatgcccgc agtgagttaa gtctcaaagc aagaagttgc tctttagggc atccgtagtt 120
 taaaactatt aaccgttagg tatgacaagc cggttgatgt gaacgcagtt tttaaaagtt 180
 tcaggatcag atttttcaca ggcattttgc tccagcaaac gcctaggatg tacatggtgc 240

cctcaatggg aaccaccaac atcactaaat ggcccaggta cacacttta aatcgtgcgc 300
gcatgcagcc gagatgggaa cgaggaaatc 330

<210> 3
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<223> Pm16gdh

<400> 3
attctttgtg gtcatatctg tgcgactgtg gtatacttga acgtgagcat ttaccagcct 60
aaatgtccgc agtgagttaa gtctcaaagc aagaagttgc tctttagggc atccgtagtt 120
taaaactatt aaccgtagg tatgacaagc cggttgatgt gaacgcagtt tttaaaagtt 180
tcaggatcag atttttcaca ggcattttgc tccagcaaac gcctaggatg tacatggtgc 240
cctcaatggg aaccaccaac gtcactaaat ggcccaggta cacacttta aatcgtgcgc 300
gcatgcagcc gagatgggaa cgaggaaatc 330

<210> 4
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<223> Pm78gdh

<400> 4
attctttgtg gtcatatctg tgcgactgtg gtatacttga acgtgagcat ttaccagcct 60
aaatgtccgc agtgagttaa gtctcaaagc aagaagttgc tctttagggc atccgtagtt 120
taaaactatt aaccgtagg tatgacaagc cggttgatgt gaacgcagtt tttaaaagtt 180
tcaggatcag atttttcaca ggcattttgc tccagcaaac gcctaggatg tacatggtgc 240
cctcaatggg aaccaccaac atcactaaat ggcccaggta cacacttta aatcgtgcgc 300
gcatgcagcc gagatgggaa cgaggaaatc 330

<210> 5
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Pgdhm primer

<400> 5
ctctagaact agtggatcca ttctttgtgg tcatatctg 39

<210> 6
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Pgdhm primer

<400> 6
agttcttctc ctttactcat gatttcctcg ttcccatctc 40

<210> 7
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> GFP primer

<400> 7
gagatgggaa cgaggaaatc atgagtaaag gagaagaact 40

<210> 8
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> GFP primer

<400> 8

ccccctcga ggtcgactta ttgtagagc tcatcca 37

<210> 9
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Pgdhm primer

<400> 9
attctttgtg gtcatatctg 20

<210> 10
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Pgdhm primer

<400> 10
gatttcctcg ttcccatctc 20

<210> 11
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> pDZ-Pm3, 4, 6_gdh primer

<400> 11
gtgaattcga gtcggtacc ccgtcggtgg gggagttg 38

<210> 12
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> pDZ-Pm3, 4, 6_gdh primer

<400> 12
gatatgacca caaagaatta aaattgtttg aaaatt 36

<210> 13
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> pDZ-Pm3, 4, 6_gdh primer

<400> 13
aatTTTcaaa caattttaat tctttgtggt catatc 36

<210> 14
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> pDZ-Pm3, 4, 6_gdh primer

<400> 14
cctgtcatc aactgtcatg atttcctcgt tcccatct 38

<210> 15
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> pDZ-Pm3, 4, 6_gdh primer

<400> 15
agatgggaac gaggaaatca tgacagttga tgagcagg 38

<210> 16
<211> 39
<212> DNA
<213> Artificial Sequence

<220>

<223> pDZ-Pm3, 4, 6_gdh primer

<400> 16

ggtcgactct agaggatccc ccaactccga tgtcacctg

39

<210> 17

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> lysC(L377K) primer

<400> 17

gtgaattcga gctcgggtacc ctccaagatt ttggtgctgc g

41

<210> 18

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> lysC(L377K) primer

<400> 18

atctcagagg tggaaatctt ttcgatgttc acgttgacat

40

<210> 19

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> lysC(L377K) primer

<400> 19

atgtcaacgt gaacatcgaa aagatttcca cctctgagat

40

<210> 20

<211> 41

<212> DNA

<213> Artificial Sequence

<220>
 <223> lysC(L377K) primer

<400> 20
 ggtcgactct agaggatccc cgttcacctc agagacgatt a 41

<210> 21
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> hom(R398Q) primer

<400> 21
 gtgaattcga gctcgggtacc cttccacac ccgtgttacc g 41

<210> 22
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> hom(R398Q) primer

<400> 22
 atcatcgcgc tcttcctgtt ggattgtacg caggagatt 40

<210> 23
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> hom(R398Q) primer

<400> 23
 aatctccctg cgtacaatcc aacaggaaga gcgcgatgat 40

<210> 24
 <211> 41

<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	hom(R398Q) primer	
<400>	24	
	ggtcgactct agaggatccc caaccattag ctgcagcaac a	41
<210>	25	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	lysC(L377K) primer	
<400>	25	
	tcctaatagca cagaagctgg	20
<210>	26	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	lysC(L377K) primer	
<400>	26	
	gtggtgcagt tagggttcgc	20
<210>	27	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	hom(R398Q) primer	
<400>	27	
	atccaactgc agacgtcgaa	20

<210> 28
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> hom(R398Q) primer

<400> 28
atctgggtgg ccttcaaagg

20