

## SEQUENCE LISTING

&lt;110&gt; BIOGEMMA

&lt;120&gt; PEDICEL SPECIFIC PROMOTER

&lt;130&gt; BGM 47 - WO

&lt;160&gt; 8

&lt;170&gt; PatentIn version 3.3

&lt;210&gt; 1

&lt;211&gt; 1556

&lt;212&gt; DNA

&lt;213&gt; Zea mays

&lt;400&gt; 1

caagagtttc gtagtcctgg agtattagtt ttttgtttcc ttgatcaa	at accaagcaag	60
ttttgcttga aaggactaca gaaatatact actatataga ataacattgt	tgtcacctgc	120
gtttacagaa ccggtcgggtt tatcgaaacc gttggggccac agtttcgggtt	aaccaccgtt	180
ttttccaaat tcgtcctaaa ttttaaaaaa ttgaaaaaaa tataaaaaacg	aaaaccgtcg	240
gtaaaccgtt attttgaacg gttaaactgc tattttggat cggtaaacca	ccattgtttt	300
gctggaaaac cagatttagt tccaagattg agttctagtt taggcattta	gtggccagtt	360
taggcataatt agtcttgttt actgttatat gtatatgtga aaatgttata	tgctatatgt	420
gaagatgatt tactgttaga tactattttt tgcccagttt aagtgctagt	ttagtgctta	480
gacattacta gtgtttaact gtttatacat gacatatata tgaagatgtt	ttatgtcaac	540
tatgtattgt tgttgtaaga gacatgacag acatagtatg taagcatgga	gagaagattg	600
gcacgtgttt caagtgaag tattgtagag aaacgaagag cgtagaggga	catgccc aaa	660
tgcatgcaca tataactaca agcagtctag tgtgttattt ttgcttcgtc	gataagtatt	720
tatttgttgt tcttgttttt cttattaatg tatctaatac cttttatata	ggactacgta	780
tacagaatgg gccatatcac gatccttcca cacatgcctg agtactatta	ctatgattca	840
aactgaatac gtgagtattg tgaaacatgt caacatattt gtcgtgggag	aactctaaaa	900
gaacttgat ttgagtattg tgcagtccgg tgattgattg ttgcatgaga	actgaagttt	960
gtggttgcat atgaatgtcg tatgtcattt tgggtgaacat atgttggtg	aatcaattaa	1020
cataaaacttt caacgcgaat tgagcaaatt ataaataaac actgacattt	ttctggtttt	1080
ctataaaaaa cataaaaaat cgattcgttt tgacagaaaa ccgacagttt	cggacaattt	1140
accagcgggtt ttgatatttt atcgccgggtt tttgcaggga aaaccgtttt	aaatttgttt	1200
tggtttgaac tggccaaacc ggtcggtttt taccgggttt tagcggttta	gcgacggtaa	1260
accattaccg ctgggtagcg gttttttctg ttaaaatggg ttgggttaacg	ttggttggtca	1320

ctgacaaatg gtccctggggcc ccacatgtca tcttcatgag gatcacatcc ctaagagtgt 1380  
 taataatgaa cagaatcttt tagtccaata caccgacat actaccacca caccagcttg 1440  
 ccatgctgat accactgttg tgtaggatag tattgtccag ggctcgacct gtataaaagg 1500  
 cacacaccgg ggacgcatat cccttcacca ggagctcaca cacacatcca acagca 1556

<210> 2  
 <211> 1557  
 <212> DNA  
 <213> Zea mays

<400> 2  
 taacatgtgt actaacgtgt ttgctactgt ttgtgtttat agttcacaag atataaagta 60  
 ttgatggact aaggcagtga ggagatcaac actccaaaga agacattata aagtcattat 120  
 aaagaccttt atacatgcta agagtccaac acaccaagaa gtagaagtgg gatgcaaagc 180  
 cacaaataaa agtgaagtta ccaaagttga gacaaaggga tgagtgaatt agaagtgtct 240  
 cacgattttt ggtctactca aatcgacatg gcttcaactc tgagatgtag agatttttat 300  
 tagctctcca aaaagttcaa gatcatcaaa atcggagctc agagctatga gttatgacta 360  
 taatatgaat ttgggtgtgc taaaaaagc agcagcacag gagtagacgg tctagtgcgc 420  
 caaatctatt caaactgaca tggcttcaac tatgagatgt aaagagtttt attagctttc 480  
 caaaaagtcg aaggatcatca aaatcgaaat ttggagctaa aagttatgcc taaaatacat 540  
 gaagcatcat gttctgcgta agaggccgg tgccgcaagt acgaaatgtc tgggtgcgcca 600  
 atttcagaag gctatcgcta acagctagta cacgtgaagg tccggtgcgc tacagaactt 660  
 gctttttaat gactagtttt agtttgggtc ttatatatac cacaccaccc atccatttgg 720  
 agatgttggg gtccaagcaa catacacata ccgagtgaag tgaggcacac ctccatagct 780  
 ctaaaccacc aagtaactta tagaatcact atgtgattag cgtatgtgct ttacgaagtg 840  
 cttagattag ttagaccgct attgcgcttg ctctaggttg ttcctagtag attgagttag 900  
 gttagaaaaa cttatacaaa cccctcggct cttgcacgag tcgttggtact tgaaatgagt 960  
 gggacgagag tcttgagaga ccacaccaac cgtaattgtc gtgtggctac caccgtgtac 1020  
 cggacggaac gaggtcgtg gcgtttcgac cggaaactcg atagtgaaga tgacgaggag 1080  
 catccgagag gaggccaaaa gcggagcatc atttgcacgt gaagaaagcc tacgactctc 1140  
 tatagagtca atcgaccgag cgtgcttggc cctcacgtgg gcttttcttt gtgtaggggt 1200  
 accaatgagt gttagttaaa atattgagcg gttatagata tctcggtaaa agtactgaca 1260  
 catcaacggg agttagtaac ataatttgct aaacttcttt tgtggtagag atagtaacac 1320  
 taaggtaaaa cataatttgc acattattgt tttgttattt tcatatgttt tgttttagtaa 1380

```

aattatttgt gggtacattg gtgagaataa taaaaaacct aatttatcct tccctgttag 1440
accgtctgta gtccctttca agggaccaga gctcggcctc tataaagggtt cacaccgggc 1500
agtcattctt tcaccacgaa cacacggccc ggcacacat ccactactcc atcagca 1557

```

```

<210> 3
<211> 3552
<212> DNA
<213> Zea mays

```

```

<220>
<221> misc_feature
<222> (1330)..(1330)
<223> n is a, c, g, or t

```

```

<400> 3
atcgaatgagc ctgaaggact ttgcttcgcg agagagtcgc ctggcttcat cagtgggtgtt 60
tttgagaagg gctcgtctg atagtcggtc gataaggggt tgacgctagt cctatcgatc 120
ggttgtcgtt accaaccac aagcttgggc catagggcca ggcaacctgg tcatcagcca 180
ccttgtccaa cccttccttt gtttgaactt caccaacggt tcgtagaggt cgaaggtgaa 240
gatctcatct gggatgggct tttccccga cgcaatggtc gatagctcgt cggcctcggc 300
gttgaaacgt atgtagctgt ggtgcagctc gaagcctttg aacttttcct ctagcttttg 360
tactttactg tagtatgtgc acatccacat gtcgtgtagc tccattgcct tcatgaccta 420
gtcgaatgacc aacttggagt tgcccctaac taggagccgc tgacacacca cctcgctcgc 480
aatccggagc ccattgacga gggcctcata ttcagcgaca ttgttgggcg aatcaaagtg 540
gaggaagatg gcgtagcgga gtttgtgcc ttaaggcgac atgaggacga caccctgcc 600
gcttctggtc ttgaggtagg atccgttgaa gtacatgac cggtagctctg ggtccttgat 660
tgtgggtggc tcctgcgctt cgatccattc tgcgatgaag tcggtgaagag cctagaattt 720
ggtcacagtt ctagggatgt agttgatgtc gagccactg aggttgaggg gccattttgt 780
catgcgactg gacgcattcc gattattgat gatttcacca aggggtgcca tggacaccac 840
ctgcacgaag tgtcgggtcaa agaagtggat caactccac ttggcaatga ggactgcata 900
gagcagtttc tagatctaag ggtactgtgt cttggactcc atcagcacct cactaacgaa 960
ttaaattggac ttctgcacct tgagcacgtt tccctcgtcc tccctttcca caaccacctc 1020
aacgttgacc acctgggtgg tggctgcaac atagaggagg agtgtttcac ctgggtcagg 1080
cacgaccaag accagtggcg agctcaagaa cacattattc ggtcgagggc ctcttgatt 1140
tcaattgtct aagaaaaatg gttgctctta ttgaggaatt tgtaagggg aatacccttt 1200
tcttcgagca tagagtcgaa ttggaaatct ctatgaatct gtgtctctg tgtgtgtatg 1260

```

cattgtgaag	ttcccttgca	ggtgatgttc	tccctttggg	aggtttgccc	ctaaaaaccc	1320
ttgtttcacn	tcttttgcta	caccacgcac	accaggtggt	cgatagaatg	tacaaaccag	1380
ccttctgtgc	tcaaatcaac	cccaactttt	tccagtgggc	cacatatact	accaatattc	1440
ctcccacttc	atatcacctt	cggctcaagc	caaaaagatc	accatatcac	caattgtgtg	1500
ttctccacat	gagttcactc	tctgcaaacc	catttagtgc	tatgtgatac	ccttgtcttt	1560
ccaaaacccg	ttccaactac	ataagatcac	atcctcttta	tccaccaata	atcaatatgt	1620
gtgtcccatg	tcatactatg	ttttccatgc	ctcatatgcc	tcatacacct	catatgccta	1680
atatgtatat	ggtccactcc	accatgtact	gacgcgagtg	tgtgtcccag	gtgttagcca	1740
ccacggctgc	tccgatccgt	cagccaagac	ccagcactta	tccttcacca	cttccggtcc	1800
atcagcatga	gcccgcatga	ctttcacctc	agtcgtcgat	taccgtccct	gtgctccaca	1860
catgcacaag	ctgaccgaca	ttgttgccca	tacataatct	cacactgtgg	tcagtccact	1920
gtctaccaga	gagtgtctacc	cgttgacaat	tactcattat	caactcgaat	cataatggaa	1980
aagtcaacct	tgtgttcgca	tatttggtaa	cccttaacaa	tatTTTTctc	atgtagtaaa	2040
aatctctaag	aatTTTTgaa	atatttcaaa	gaaccaaacc	aaaccaatct	atccgccatt	2100
ccttgtcgta	atgttgagc	cactaatagc	agctaaccaa	ctaccacgag	taaccattaa	2160
tagatgattt	atgtgtaaaa	taaaatcaag	aaaaactttt	ctaatatctc	aactatcaac	2220
aaatggttcg	tactgattga	ttaaataat	gtaacttatg	tgcattttat	acgttaaata	2280
tttattctat	cccaaataat	gtttcaaaat	attaaaaaca	aaggagtcta	ctgcatttac	2340
tgagtaactg	tcaactatat	ttgtctcaag	taataataaa	agtctcaaga	cttccacaac	2400
atttcaagga	accaaacct	accttactat	agttatgaat	tgtcatagta	atgttgagc	2460
ttttggtaga	agacagctgg	ctttaacct	aaatcatcaa	tatttataat	ggcttggctt	2520
acatagtcaa	atcatgctaa	acctctttta	tcatgtcatc	ataaacatat	tcttccttga	2580
taaattaatt	tattgcatat	aactcgtgtg	catttgtgcc	tagtagaaaa	atattatttc	2640
ccaatattca	tccaaaaata	tcataaatat	aaaacatagg	attctattgg	attcattgag	2700
taaccctcaa	ctacatttgt	ctcatgtaat	aaaatagcct	taaaatttct	aatacatttc	2760
aaagaactaa	atccagcctt	actccagcta	tgattcctca	tggtaatctc	aaacttacta	2820
atagaagacc	cccatcccta	cctatacccc	tcaatagtca	tgatgaaatt	atgtacaaat	2880
tgaaatcaag	ctaaatcaat	tttatttcga	atagtaattt	ccaaacagtt	aatagaagaa	2940
gcatgacccc	acctataatc	ctcattatac	atgatggctt	tatatacaaa	ataaagccgt	3000
gccaaataca	tttgaccaca	attatgaaca	tataaatata	aacataggat	tctattggat	3060

```

tcattgagta accttcaact acatttgtct catgtaataa aatagtctta aaactttcaa 3120
tacatttcaa cgaactaaat ccaaccttac tccaactacg attcatcatg gtaattttga 3180
acttactaat agaagatccc caacctgcc atatataccc ctcaaaagtc aatgatgaga 3240
ttttgtacag aatcaaatca agcttaatca aattttatct cctaggagta attttgaaac 3300
agttaataga atatgcatga cccccaccta taatcctcat catacatgat ggctttgcat 3360
agcaaaacaa agtcatggaa aatacctttg accacaatta tgaacatatg gttccttgca 3420
agaattaaat gcgtagaatt cataggcatt tgaatctatg aatagaagtg gtatctagtg 3480
gggctataaa tagaccagct ccagcttct tttgacacaa ctactacct tttcatcttc 3540
caagtctctg cc 3552

```

```

<210> 4
<211> 46
<212> DNA
<213> Artificial

```

```

<220>
<223> primer

```

```

<400> 4
ggggacaagt ttgtacaaaa aagcaggctt atcgatgagc ctgaag 46

```

```

<210> 5
<211> 50
<212> DNA
<213> Artificial

```

```

<220>
<223> primer

```

```

<400> 5
ggggaccact ttgtacaaga aagctgggta tggcagagac ttggaagatg 50

```

```

<210> 6
<211> 35
<212> DNA
<213> Artificial

```

```

<220>
<223> primer

```

```

<400> 6
ccatggtggc tgctgttgga tgtgtgtgtg agctc 35

```

```

<210> 7
<211> 27
<212> DNA
<213> Artificial

```

```

<220>

```

<223> primer

<400> 7

ggtaccaaga gtttcgtagt cctggag

27

<210> 8

<211> 21

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 8

gcatgcattt gggcatgtcc c

21