

Sequence Listing Information:

DTD Version: V1_3
File Name: CeMV 3rd application sequence listing 20240228.xml
Software Name: WIPO Sequence
Software Version: 2.3.0
Production Date: 2024-02-28

General Information:

Current application / IP Office: EP
Current application / Application number: not known
Current application / Applicant file reference: CeMV2
Applicant name: Bejo Zaden BV
Applicant name / Language: en
Invention title: CeMV resistance in celery (en)
Sequence Total Quantity: 15

Sequences:

Sequence Number (ID): 1

Length: 98

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..98
 - > mol_type, genomic DNA
 - > organism, Apium graveolens

Residues:

taaaagatgt taacatgtgc cttcaagtct ctttctgcat tcttgatggt ttttagcattt

60

ttattaactt cttttttgtg tgtgttactt aatatgta

98

Sequence Number (ID): 2

Length: 98

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..98
 - > mol_type, genomic DNA
 - > organism, Apium graveolens

Residues:

taaaagatgt taacatgtgc cttcaagtct ctttctgcat tcttgatggt atttagcattt

60

ttattaactt cttttttgtg tgtgttactt aatatgta

98

Sequence Number (ID): 3

Length: 101

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..101
 - > mol_type, genomic DNA
 - > organism, Apium graveolens

Residues:

aaaaagttcc aaaacaatca aacataaaat agattcaacc taccattact aaaaatrtrtt

60

atgttctatg tcataaagcc tcaatattct gaaattacac a

101

Sequence Number (ID): 4

Length: 101

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..101
 - > mol_type, genomic DNA
 - > organism, *Apium graveolens*

Residues:

aaaaagttcc aaaacaatca aacataaaat agattcaacc taccattact taaaatrtrtt
atgttctatg tcataaagcc tcaatattct gaaattacac a

60

101

Sequence Number (ID): 5

Length: 101

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..101
 - > mol_type, genomic DNA
 - > organism, *Apium graveolens*

Residues:

gctgcaaatt ttcccatgg ccgccgcctt acgcctctat atctcttcca gtcttgtgga
gactgacttt caggtgccac aacctctatt tttatgtcct c

60

101

Sequence Number (ID): 6

Length: 101

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..101
 - > mol_type, genomic DNA
 - > organism, *Apium graveolens*

Residues:

gctgcaaatt ttcccatgg ccgccgcctt acgcctctat atctcttcca ctcttgtgga
gactgacttt caggtgccac aacctctatt tttatgtcct c

60

101

Sequence Number (ID): 7

Length: 9052

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..9052
 - > mol_type, genomic DNA
 - > organism, *Apium graveolens*

Residues:

acacaattca cacaaacgcg cacatacact caggttcggt tttccttctc tgcttcctct
tcttcacccc cttccatcc aattcaatcc aatctatata tacacatata cacacaattc
tcacacgcct acacaattat tatacatata tcttcactct attcactcaa tttcaccaaa
aagttttgat cttaaatcaa ttaagcatct ttaattacat gtatatatgt ttgtgtgtat

60

120

180

240	ggattgattg	taatgtgttt	gaatTTTTgt	tgattatgtg	attaatgaat	tagatctgtg
300	TTTTTggtgc	agaaaattgt	tgatttgaat	aagattggag	gtgattaggg	tttgatttta
360	tgtccgtcaa	tcaatctagg	gctgagaaga	gcgagtcggg	acagcatcga	aaaactaatc
420	gatccggtaa	tagctccggt	gggcagagga	atTTTccagg	cggTggtggt	aagggtagcg
480	gtgctgccac	cGccctact	cTTtcgcttt	cgactagtcg	aaggtatatt	aggTTTctg
540	tctttgtttt	ttgtaattgt	gtgtacattt	agacctcgat	aaattattat	gcaatttggt
600	agttgtctaa	gattaattgg	tactcggttg	gttagtaatc	tcgataattt	gatacgtgat
660	tggttagtga	cctaagattg	ttggtacttg	gttagtaatc	ttgacaattt	gatacgctat
720	tggttagtaa	cctaagattg	ttggtacttg	gttggttagt	aatctcgata	attaaatact
780	acgtgattgg	ttagttagct	aataagtgct	tgattggttt	gtagtcttta	taaattaata
840	tgtgggggtg	attggtgacc	taagattggt	tagtgcttga	ttggataaat	tcagtacgtg
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960	ggTTTgtttt	acctgtagtt	aatttgtaag	ctttattaat	taagtaatag	aatctttggt
1020	ccggacagta	tgaagttata	gagtatactt	gtctgttttg	tgtacttttc	tgatgattct
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1260	TTTTgttca	aggattttta	ttgtTTTTgt	TTTTgaatgt	ggtgtgatgg	tcaagtatgg
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1560	gctaattgga	gtttttTgtg	gtcgtggctc	aggTggaggT	tttcctctcc	agtttggatc
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1680	gctatctcag	ttacctgaag	cttaagaatg	atattggTct	tcatataatt	ataattattg
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1800	atgagcagaa	acgggaacag	gttttaaaaca	ttgttgccat	ctTTTTTgt	tcattgtgat

1860	gtgggggtgg	ggcttgcaaa	taggatttac	ttgcaatttc	tagatgaata	tttttaatat
1920	cagtattctc	ttattatgat	gggaggctaa	atcatttgta	actttgattt	ctaaatggtt
1980	gatgtgaagt	atattactta	tgatccctct	ggtccaaata	gataggctac	attttgtggt
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6180	atcgccaaat	tcccatatgg	gaggattccg	tggagcacca	caacaaccac	gcggttatgc
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6600	tcgtgttttt	aacagatctc	ggcctaatac	gcctccttcc	agaggatatgg	agtctatttc
6660	tgtaggaaac	attcctacgg	aaaaggtg	gccggaagaa	caattgcgaa	aaaagtcatt

6720	ggaaactatt	aaagaattct	acaggtatga	tgagaccttg	ttgcttgctt	gtggttggtc
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6960	ctgtgtactt	tatatctgct	cttttttagtg	tatttgcatt	ttatcttgct	gtcattaggc
7020	gcccagcaga	tcatcggcta	ttgctatcaa	taaaaacagt	caaagaatgt	gaatcttaga
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7140	taattgacgg	ttatagttta	gaaggattaa	agatactagc	aagtcgagag	agagctaaca
7200	tttatatat	ttacaaaata	aacattaatt	ttaaagttaa	ccctgtgtaa	ttcgaaatat
7260	acctaaatac	tgtttatatc	tgatttctag	gccttttagta	gagcctcagt	tgtcattcta
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8220	tcaaagattt	gaatgctccc	agcttttatc	catcaatgat	atccatctgg	ataactgatt
8280	ccttcgagag	gaaggacatg	gagaggggtc	tacttgctaa	gcttctgggtc	aaccttgcaa

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8340      aatctcggga  caccttgтта  agtcgacctc  aatttgtaga  agggtatgta  atggttacct
8400      gattcttgct  tacaccactt  cactgactaa  gttttatcct  agaaggtcaa  aatatgttgt
8460      ccggtgttct  ttcacttcat  aattgttttt  ttgccagggt  tgaatctggt  ctagcttggt
8520      tggaggatgc  tgtaactgat  gtcctaaag  caccagaatt  tcttggtggt  atctttgcta
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8700      tggagattat  taaaactgaa  aaaggagaac  aggtcttgaa  agaaatttgc  acgggctcta
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8880      atcagtgaat  ctcttcatat  tgcagatata  tttatctcta  gatggtcact  tgggttggtg
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9000      cccaaacatc  catggttttt  aatgaacatc  caaaaatttc  agtttatcaa  ca
9052

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Sequence Number (ID): 8

Length: 5328

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..5328
 - > mol_type, other DNA
 - > organism, *Apium graveolens*

Residues:

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60      atgtccgtca  atcaatctag  ggctgagaag  agcgagtcgg  gacagcatcg  aaaaactaat
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180     ggtgctgcca  ccgcccctac  tccttcgctt  tcgactagtc  gaagttttaa  gaagcctagt
240     aatgcgcaag  gatcgcaaат  tcgggttggt  aattcggata  ttaggaatga  tgctactgcc
300     ggtggtaatg  ttgctgtttc  tggttcagcc  cgtgggtgtg  agaatggcgc  tcattcacia
360     tcacatggag  ggtctgatgc  tccagctggt  gtcaagcaga  atgttactcc  gacacaaaaa
420     attaatcggg  gtgtgccgaa  agctcctgct  ccaaataata  cccccgtaag  ctcaaataca
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540     cctggтсtga  tgcaggтacc  tgctcgaaat  agctcagcgc  cgccaaattt  ggatgagcag
600     aaacgggaac  aggctcgcta  tgaatcatca  agagttatgc  ctgtgctgcc  agcccaatcc

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780	atccaaactc	agaagccttc	tgttcaccct	atctctggga	tgcctatgca	aatgccattt
840	caccagcaac	atataccagt	tcaatttggg	aatcctaata	cacagttgca	gtcccaaagc
900	atggtaaata	gctctatgcc	aatgccaatg	ggaatgccct	tccctatggg	aaatccttct
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1500	actgttgaga	aaaatattcc	taagatatct	ggtcaagaag	gagaagctac	atctattcgt
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1620	atacctgttc	aaattaaagg	aactggcgga	gtatctgatt	cagcttccgc	atctagccct
1680	ctaccaagtt	ctattccttg	tacacctcct	gaaaattccg	agtattccac	aggctctagt
1740	attactgtag	ttgcaaaaaa	tgatctattg	gataggctta	atgataatga	tgagaaacac
1800	agtaagaaga	gccaatctgt	actgcagaat	cagattgatc	gacctgttgc	cccttcgtta
1860	cccgaagttg	tagaggacac	aagatcatct	tctataccag	aagctcagcc	aggagaggaa
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2100	ctgctctctg	agccaaatgc	agatgctgct	ggttgtgtgg	caagtgcaaa	atccgattca
2160	ccaagaccat	atgaacatgc	tgatcaaact	gagagcctta	tcatggaagt	gaaagataaa
2220	cagctgaagt	tggagatgga	acctgtacac	ctcacaaaag	gtgatgcaga	tgctgattta

2280	tcaacctcta	tagttgggac	agtggactgc	ctgattactg	aaacatcctc	attgtctctt
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2400	gataatacca	tggttagtac	agaaacagaa	tccaacaagt	tagatcagaa	atcacaaatt
2460	ctttcagttc	catctcagtc	tgagccgcct	tgtgaaactg	aaattgctga	tagtgatagc
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2580	tcaaagaata	caaatacaaa	gaagaagaga	agagaagctt	tacaaaaggc	agaccgtgct
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3240	atgcattcca	gtggaatcct	atctgggcca	gttcattcta	tgggtcctca	gtatggaatg
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3600	ttttgtgaga	tgtatgctga	tttctgctat	catcttgctg	gcgacttgcc	tgattttaat
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3900	tgcattaaga	aactattggg	ccagtaccaa	aatcctgatg	aggaagatgt	agaagccttg
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5160	cttcccatgg	cagaaattgg	aaggttaatt	tatgaaggtg	gggaacaaca	aggacagctt
5220	gtagaaatag	ggcttgacgc	tgaagttctt	ggaagcgtcc	tggagattat	taaaactgaa
5280	aaaggagaac	aggtcttgaa	agaaatttgc	acgggctcta	gtttacgtct	agaaaacttt
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Sequence Number (ID): 9
Length: 1775
Molecule Type: AA

Features Location/Qualifiers:

- source, 1..1775

> mol_type, protein

> organism, *Apium graveolens*

Residues:

60	MSVNSQRAEK	SESGQHRKTN	RSGNSSGGQR	NFPGGGGKGS	GAATAPTPSL	STSRSFKKPS
120	NAQGSQIRVV	NSDIRNDATA	GGNVAVSGSA	RGVQNGAHSQ	SHGGSDAPAV	VKQNVTPTPK
180	INRGVPKAPA	PNNTPVSSNT	MAPSTPVKGG	GFPLQFGSIS	PGLMQVPART	SSAPPNLDEQ
240	KREQARYESS	RVMPVLPAQS	VPKQNVPTNN	SATSDQPNIV	DTHSMSKARR	DVQVAPGPHA
300	IQTQKPSVHP	ISGMPMQMPF	HQQHIPVQFG	NPNPQLQSQS	MVNSSMPMPM	GMPFPMGNPS
360	QVQQQLYIQG	LPPHMMPPQG	VMHQGGGVNF	SSQMGTLPH	MGNMGMNINP	QFSQQQPGNF
420	GGARKTVKIT	HPDTHEELSL	SKRTDTYKES	GSSAPRSHTN	IPPQSQPISS	FPPGRPSNFY
480	PNSYSQGSVF	YTGPNSLHLS	SNQVPPNSQA	PRLYKQVTVK	PAASPRLEKI	AETSLPASSP
540	TVEKNIPKIS	GQEGEATSIR	TERDPEKTS	MSSQKSEYTS	IPVQIKGTGG	VSDSASASSP
600	LPSSIPCTPP	ENSEYSTGSS	ITVAKNDLL	DRSNDNDEKH	SKKSQSVLQN	QIDRPVAPSL
660	PEVVEDTRSS	SIPEAQPGEE	NVRETSVA	VDLNTNSSEV	QGIHELEKSD	GVDSAEMSAD
720	VSVDNKPKE	AMRTQESRNI	LLSEPNDAA	GCVASAKSDS	PRPYEHADQT	ESLIMEVKDK
780	QLKLEMEPVH	LTKGDADADL	STSIVGTVDC	LITETSSLSL	GSTISHDYDK	TSASDASTII
840	DNTMASTETE	SNKLDQKSQI	LSVPSQSEPP	CETEIADSDS	TELLSSNDL	KDKPVPETIM
900	SKNTNTKKKR	REALQKADRA	GRIADLYMAY	KGPDEKKENP	IDVESSETSS	SQAKELASGF
960	SPKDVPNESK	AEPDDWEDAA	DLSTPKLDDG	KLLGEVKDHI	EDKTLMDRKY	SRDFLLKFSE
1020	QCKDLPVGFK	ITLDIAEALV	LSIGNVPLPS	PGRNDDRSMG	RSPSGRRGVG	MGMGDDDKWS
1080	KVPGPLPPGL	DMGYGSHANN	VFQPGANFGV	LRNPRVQSPV	MHSSGILSGP	VHSMGPQYGM
1140	QRTNSDADKW	QRATNFQRGL	MPSRTPAQV	MHKAERKYEV	GKITDEEQAK	QRQLKAILNK
1200	LTPQNFERLF	EQVKQVNIDN	AGTLTGVISQ	IFDKALMEPT	FCEMYADFCY	HLAGDLPDFN
1260	EDNEKITFKR	LLLKNCQEEF	ERGEREQEEA	NRAEEEGEVK	QSDEEREK	VQARRRMLGN
1320	IRLIGELYKK	KMLTERIMHE	CIKKLLGQYQ	NPDEEDVEAL	CKLMSTIGEM	IDHPKAKEHM
1380	DAYFDMMAKL	SNNMKLSSRV	RFMLKDSMDL	RKNKWQQRK	VEGPKKIEEV	HRDAANERQA
1440	QANRLARGPS	MGSSFRRGQQ	PMDFAPRGSN	VLSSPNSHMG	GFRGAPQQPR	GYATQDIRTD
	ERHPFDNRNL	LPQRPLGDSI	TLVPQGGLAR	GMSIRGQPPM	LSVPFSDMHN	QDSRRTTPGL

1500	NGYGSVTD RP	VYTSREELIP	RSAQRFVSPS	AHDHMNITDG	NSTYMNREMP	NPDRVFNRSR
1560	PNTPPSRGME	SISVGNIPTE	KVLPEEQLRK	KSLETIKEFY	SAKDEMEVAL	CVKDLNAPSF
1620	YPSMISIWIT	DSFERKDMER	GLLAKLLVNL	AKSRDTLLSR	PQFVEGFESV	LACLEDAVTD
1680	APKAPEFLGG	IFAKFVLENV	LPMAEIGRLI	YEGGEQQGQL	VEIGLAAEVL	GSVLEIIKTE
1740	KGEQVLKEIC	TGSSLRLENF	RPPNSKRALT	LDKFI		
1775						

Sequence Number (ID): 10

Length: 10368

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..10368
 - > mol_type, genomic DNA
 - > organism, Apium graveolens

Residues:

60	caattataaa	tgttcagaat	atttgttgat	aaactgaaat	ttttggatgt	ttattaaaaa
120	ccatggatgt	ttgggattct	ggataatata	tctatataaa	aaatatgaag	agggctatat
180	tctataaaac	ccaaccaag	tgaccatcta	gagataaata	tatctgcaat	atgaagagat
240	tcactgatag	ggctggacat	aaaatttctt	ctatgcagat	tacaataatc	atggctacac
300	ttagataaat	ttgatctagc	gtcaatgccc	ttttagagtt	cggaggccga	aagttttcta
360	gatgtaaact	agagcccgtg	caaatttctt	tcaagacctg	ttctcctttt	tcagttttta
420	taatctccag	gacgcttcca	gaacttcagc	tgcaagccct	atttctacaa	gctgtccttg
480	ttgttcccca	ccttcataaa	ttaaccttcc	aatttctgcc	atgggaagca	cattttccag
540	cacaaattta	gcaaagatac	caccaagaat	ttcgggtgctt	taggagcatc	agttacagca
600	tcctccaaac	aagctagaac	agattcaaac	ctggcaaaaa	aacaattatg	aagtgaagag
660	aacaccagac	aacatatttt	gaccttctag	gataaaaactt	aagtcagtga	agtgggtgtaa
720	gcaagaatca	ggtaaccatt	acataccctt	ctagcaaatt	gaggttcgac	ttaacaaggt
780	gtttcgagat	tttgcaaggt	tgaccagaag	cttagcaagt	agaccctctt	ccatgctcct
840	tcctctcgaa	ggaatcagtt	atccagatgg	atatcattga	tggataaaaag	ctgggagcat
900	tcaaactctt	gacacacagg	gcaacttcca	tctcgtcttt	ggcactgaga	tttagagcat
960	cttttgagtc	gaatatacag	taaaactgaa	agaggaagca	gggctgtatc	tcaaaatact
1020	ttaatcaact	catcacaact	ttcgcaaaca	aagcaaatgc	ctgttattct	agatgaagaa

1080	tcctatatga	aagaacctgg	gctacggctg	cgtaacaagc	cagatcaa	agtcaaaaga
1140	gcctgggaga	gggcctagta	acaagccgga	tcaaataattg	acacttgccc	aggctgacag
1200	agtttcagga	gtacaaggcc	taaatcggac	taatactacg	gccatggctg	aaagcaatga
1260	ttaactagaa	agggacctca	atctgaatag	caa	atggaga	agtaagccaa
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5940	tctgtgagga	catatcactt	gtctttccag	gatctctttc	agtacaaata	gatgtagctt
6000	ctcctctacc	atatacttga	ggaatatattt	tctcaacagt	aggtgagctt	gctggcaaag
6060	aagtttcagc	aattttttcc	aagcgtggga	gctgctggct	tcacggtgac	ctgtatttta
6120	aatgagcatg	taccgtaaata	aacatttcag	taatggcatg	caacaaaata	ccagcagtgg
6180	ataaaacaac	acggtaatac	ggtttaataa	agacaggcta	acctgtttat	ataaccttgg
6240	agcctgtgaa	tttggaggaa	cttggttact	gcttaaataga	agagaattag	gacctgtata
6300	aaatacggaa	ccctgactgt	aagaattagg	gtaaaagtta	cttggaaggc	cagtaggaaa
6360	agatgaaata	ggttgggact	gaggtggtat	attggatgtg	atcgcgagac	agatcgaacc
6420	agattctttg	taagtatcag	tctttttaga	taaactcaac	tcttcatgag	tatcagggtg
6480	agttatctta	actgttttac	gagcaccacc	aaaatttcct	ggctgctgct	gcgagaactg
6540	gggattgagt	gttcatcccc	atattcccca	tgtgaggtaa	ctgggtaccc	atttgcgagg
6600	agaaattgac	accctgactc	tgatgcatga	caccctgagg	tggcatcatg	tgggggtggaa
6660	gaccctgaat	atacagttgc	tgctgcactt	gagaaggatt	tcccataggg	aagggcattc
6720	ccattggcat	tggcatagag	ctattttacca	tgctttggga	ctgcaactgt	ggattaggat
6780	tcccaaattg	aactggtata	tgttgctggt	gaaatggcat	ttgcataggc	atcccagaaa
6840	taggggtgaac	agaaggcttc	tgagtttgga	ttgcatgttg	accaaggtgc	aacttgcaca
6900	tctcttgctt	ttgacatcga	atgagtgtca	acaatattag	gttggtcaga	agttgcagaa
6960	ttattggtag	gcacattctg	cttaggaacg	gattgggctg	gcagcacagg	cataactctt
7020	gatgattcat	agcgagcctg	caaaaataat	tgacaagcag	gaaaggaagt	tgtcaaacaa
7080	ttaatatcag	cagggataaa	gagcagagca	taatcagcct	attctgtaat	ttaatcaact
7140	catctcattg	cactagggcc	aaaagtcatt	ctacagaaag	cacatcatat	tacaattaac
7200	caaacccttt	ttcaagctct	ataatagatt	actcaaaaac	tgagattgca	atttcaagtg
7260	tgctgttcga	aaaaatagag	atgcaacaaa	tgtgggacac	cacaaaatgt	agcctatcca
7320	tttggaccag	aagggggatc	ataaagtaat	atacttcaca	tcaaccattt	agaaatcaaa
7380	gttacaaatg	atctagcctc	cctattataa	taaagagaat	actgatatta	aaaatattca
7440	tctagaaatt	gcaagtaaata	cctatttgca	agcccccccc	cacatcacaa	tgaacaaaaa
7500	acatggcaac	aatgtttaaa	acctgttccc	gtttctggct	catccaaatt	tggcggcgct

7560	gagctagttt	cgagcaggta	cctaaaccac	aatccgaaat	cattccagta	attataatta
7620	tatgaagacc	aatatcattc	ttaagcttca	ggtaactgag	atagctaaca	atatacattc
7680	ttgatgaaaa	ctttcagccc	tacctgcatc	agactaggac	tctattgatc	aaacctggag
7740	aggaaaacct	ccacctgagc	cacgaccaca	aaactccaat	tagcttatta	tgaatacaga
7800	agttcatata	tttaacttca	tcatgtacaa	tgccaaatat	ttacatagaa	cgacacttaa
7860	ccttttagcag	gggttgaagg	ggccattgta	tttgagctta	cgggggtatta	tttgagcag
7920	gagctttcgg	catatccccg	attaattttt	ggtgccggag	taacattctg	cttgacaaca
7980	gctggagcat	cagaccctcc	tacaacaagg	acaacaaaat	aaaaaccata	ctcgaccatc
8040	acaccacatt	caaaaacaaa	aacaattaaa	atccttgaac	aaaatctctt	tcaataccat
8100	gtgattgtga	atgagcgcca	ttcttgcaca	ccacgggctc	aaccagaaac	agcaacatta
8160	ccaccggcag	tagcatcatt	cctaatatcc	gaattcacaa	cccgaatttg	cgatccttgc
8220	gcattactag	gcttcttaaa	actacaaaaa	ataaaaaaaaa	attattagaa	tcatcagaaa
8280	agtacacaaa	acagacaagt	atactctata	acttcatact	gtccggacca	aagattctat
8340	tacttaatta	ataaagctta	caaattaact	acaggtaaaa	caaacctaa	tatccttgat
8400	aaattaaaaa	aaacacattc	tttaatctta	gtatataacc	aataatcacg	tatctaattt
8460	atccaatcaa	gcactaagac	aatcttaggt	cacgtcaatc	acccccacat	attaatttat
8520	gaagactaaa	aaccaatcaa	gcacttatta	gctaactaat	caatcacgta	gtattttaatt
8580	atcgagatta	tgtaaccaac	caagtaccaa	caatcttagg	ttactaacca	atagcgtatt
8640	atattgtcaa	gattactaac	cgagtaccaa	caatcttagg	tcactaacca	attgcgtatc
8700	taattattca	aattactaac	caaccagta	ccaattaatc	ttagacaact	aacaaattgc
8760	ataataattt	atcgaggtct	aaatgtacac	acaattacaa	aaaacaaaga	caggaaaccc
8820	aatatacctt	cgactagtcg	aaagcgaagg	tagaggggcg	gtggcagcac	cgctaccctt
8880	accaccaccg	cctgaaaaat	tcctctgccc	accggagcta	tcacccggat	cgattagttt
8940	ttcgatactg	tcccgactcg	ctcttctgag	ccctagattg	attgacggac	ataaatccaa
9000	accctaataca	cctccaatct	taatcaaatac	aacaattttc	tgcacacaaa	acacagatct
9060	aattcattaa	tcacataatc	aacaaaaatt	caaacacat	tacaatcaat	tcatacacac
9120	aaacatatat	acatgtaatt	aaagatgctt	aattgattaa	agattgaatc	tttttggtga

9180	aattgagtga	atagagtgaa	gatatatgta	taataattgt	gtaggcgtgt	aagaattgtg
9240	tgtatatgtg	tatgtataga	ttggattgaa	ttggatggaa	gggggtgaag	aagaggaaga
9300	cagagaagga	aaaactgaac	ccaagtgtat	gtgtgtgttt	gtgtgaattg	tgtgtgtgag
9360	aaaagaagtg	tgttttaact	tttatatgtg	tatatataaa	atcaagaatt	aaagtatcat
9420	tgttttcaaa	ttggaattca	gaaaaaatta	aattaaaata	atataattgt	tgtttaaaag
9480	cttccttttg	agaaaattac	aaattttaga	ttatatatgg	acgatgggtca	aaaatattat
9540	tttttaatat	aatatgacaa	acatactatt	tgtaaaattg	atgggtcaaaa	atatcaacca
9600	agtacatatt	tcgaagaatt	gataatctaa	tacgtatttg	atgagctacg	gagttttacc
9660	cgcgatacgc	aagattgtta	tccgaaatth	gttaaactga	aattgtttata	taaatgaaaa
9720	aaaatcggta	tatcgtattc	cgagatgatg	aactcttaat	tatattaacg	aacaaataaa
9780	aatacataaa	gatgcaccaa	aaaatataaa	tcgtcacttt	caaagaaaaa	tacaggaacc
9840	tattgtttga	ttaaaatctc	acatcaatgt	caggattata	ttcgccacaa	agatttcagc
9900	gttaagcaat	tgacgattat	aagaagtga	catagtaaca	atctgaatgc	tttgtttaatt
9960	aatataacgc	gtacattact	taacggaaac	gtaaatgtgt	accagtgtgg	ccagatagac
10020	tattcacctt	cttataatta	cactttacta	cattagtctt	ttgcatgaca	ctatthtttct
10080	tgggagatgc	aatatataaa	atgctttaac	tctaattgtcc	ccacaaatgt	catgtcgtgt
10140	ttaacaatac	atgtttgttt	aattgtacaa	acagttaa	ctcgatatta	taatacttta
10200	taacttctga	aatatgggtt	aattatatct	aacttcggtg	aatctaaa	taagtaat
10260	ggtttaatat	catatatgtt	agcataaa	atgttagtat	aaaatataaa	gtttgtcata
10320	caacgataac	atthttcttht	aatttaatat	tagtaacaaa	ttatcccttht	aatatcattc
10368	taagcaataa	tataaacaaa	ctaatagataa	ctgatcttht	atataatt	

Sequence Number (ID): 11

Length: 3737

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..3737

> mol_type, other DNA

> organism, *Apium graveolens*

Residues:

60	atgtatatat	ggctcagaag	agcgagtcgg	gacagtatcg	aaaaactaat	cgatccgggt
	gatagctccg	gtgggcagag	gaatthtttca	ggcgggtgggtg	gtaagggtag	cgggtgctgcc

120	accgcccctc	taccttcgct	ttcgactagt	cgaagtttta	agaagcctag	taatgcgcaa
180	ggatcgcaaa	ttcgggttgt	gaattcggat	attaggaatg	atgctactgc	cgggtggtaat
240	gttgctgttt	ctggagggtc	tgatgctcca	gctgttgtca	agcagaatgt	ggagggttttc
300	ctctccaggt	acctgctcga	aactagctca	gcgccgccaa	at ttggatga	gccagaaacg
360	ggaacagaga	tgtgcaagtt	gcaccttggt	ccacatgcaa	tccaaactca	gaagccttct
420	gttcacccta	tttctgggat	gcctatgcaa	atgccatttc	accagcaaca	tataccagtt
480	caatttggga	atcctaattc	acagttgcag	tcccaaagca	tggtaaatag	ctctatgcca
540	atgccaatgg	gaatgccctt	ccctatggga	aatccttctc	aagtgcagca	gcaactgtat
600	attcagggtc	ttccacccca	catgatgcca	cctcagggtg	tcatgcatca	gagtcagggt
660	ttctcgcagc	agcagccagg	aaattttggt	ggtgctcgta	aaacagttaa	gataactcac
720	cctgatactc	atgaagagtt	gagtttatct	aaaaagactg	atacttaca	agaatctggt
780	tcgatctgct	ccgcgatcac	atccaatata	ccacctcagt	cccaacctat	ttcatctttt
840	cctactggcc	gtccaagtca	ccgtgaagcc	agcagctccc	acgcttgga	aaaattgctg
900	aaacttcttt	gccagcaagc	tcacctactg	ttgagaaaaa	tattcctcaa	gtatatggta
960	gaggagaagc	tacatctatt	tgtactgaaa	gagatcctgg	aaagacaagt	gatatgtcct
1020	cacagaagtc	agagtataca	tcgatacctg	ttcaaattaa	agcaactggc	ggagtatctg
1080	attcatcttc	cgcacttagc	ccctctacca	agttctattc	ctagtaacc	tcctgaaaat
1140	tccgagtatt	ccacaggctc	tagtattact	gtaggtgcaa	aaaatgatct	attggatagg
1200	tctaatagata	atgatgagaa	acacagtaag	agagcctatc	tgtactgcag	aatcagggtat
1260	taccctcttt	taagattttt	attccagcag	tatacttcag	ttgctgtagt	gtatggtttt
1320	aacaaatttt	gttctcagat	tgatcgacct	gttgcccctt	cgttaccgga	agttgtagag
1380	gacagaagat	catcttctat	accagaagct	cagccaggag	aggaaaatgt	cagggaatca
1440	gaaacctctg	ttgccgttga	cttaaataca	aatagttctg	aggtacaggg	aattcatgag
1500	ttggaaaaaa	gcgatggagt	cattctgctg	aaatgtcagc	tgatgtatct	gtggataata
1560	agccaaaaca	ttgaagctat	gcgaactcaa	gaaagtagaa	acatactgct	ctctgagcca
1620	aatgcagatg	ctgctgggtga	agcagatgct	gatttatcaa	cctctatagt	tgggacagtg
1680	gactgcctga	ttactgaaac	atcctcattg	tctcttggtg	ccacaatctc	acatgattat

1740						
	gataagactt	cagcttcgga	tgcttctact	ataatcgata	ataccatggc	tagtacagaa
1800	acagaatccg	acaagttaga	tcagaaatca	caaattcttt	cagttccatc	tcagtctgag
1860	ccgccttggtg	aaactgaaat	tgctgatagt	gatagcacag	aattgctttc	ttcatcaatt
1920	gatttgaaag	ataaacctgt	gccggagaca	attatgtcaa	agaatacaaa	tacaaagaag
1980	aagagaaaag	aagctttaca	aaaggcaaac	cgtgctgaaa	catcttctag	ccaagctaaa
2040	gagttggctt	ctaaatttct	ccgaaagatg	ttccaaatga	gagtaaagct	gaaccagatg
2100	acttgggaag	atgctgcaga	tttatcaact	ccaaaacttg	atgatgggaa	gctccttgga
2160	gagtcccagg	aagagataat	cgataggtca	atgggaaggt	ctggatcagg	tcgccgtggt
2220	gttggcatgg	gtatgggcga	tgatgataaa	tggagtaagc	gggcgactaa	ttttcagaga
2280	ggctctaatgc	cttctcctcg	gactcccgca	caggtgatgc	ataaggctag	agaaaactat
2340	ttgagcaagt	caagacaagt	taacattgac	aatgctggta	ctctcactgg	tgtgatatct
2400	caaatctttg	ataaagctct	tatggaaccg	acattttgtg	agataggcta	ctttctgaat
2460	aagtgccagg	aggagtttga	gagaggtgag	agggaacaag	aagaagccaa	cagagctgaa
2520	gaggaaggtg	aggttaaaca	atctgatgaa	gaaagggaag	gaagagagtc	caggcacgaa
2580	ggcgaatggt	gggcaacatc	aagacttatt	ggggaattat	gcaagaaaaa	gatgttaaca
2640	gagaggatca	tgcatgaatg	cattaagaaa	ctattgggcc	agtatcaaaa	tcctgatgag
2700	gaagatgtag	aagccttggtg	caaactaatg	agcacaatag	gagagatgat	agatcacctt
2760	aaagccaagg	aacacatgga	tgcatatttt	gatatgatgg	ccaagctatc	taataacatg
2820	aagctctctt	cgagagtgag	gttcatgctg	aaggattcaa	tggacctgca	ggaaaaacaa
2880	gtggcagcag	aggaggaaag	ggtcaacaac	ccatggactt	tgctccaaga	gggtcaaattg
2940	tattatcatc	gccaaattcc	catatgggag	gattccgtgg	agcaccacaa	caaccacgcg
3000	gttatgccac	tcaagatagt	taggacagtg	agagacaccc	ttttgataac	aggaattctc
3060	tattgccaca	gaagaccctt	tggtgactcc	attacccttg	tgccccaagg	tggtcttgcc
3120	aggggaatgt	ctattagagg	acagcccca	atgttaagcg	tacccttctc	tgacatgcac
3180	aatcaagatt	ccagaaggac	tacccttggt	ctcaatgggt	acggttctgt	aacagaccgg
3240	ccagtttata	cctcaagaga	ggaactgatt	ccgcgatctg	ctcagagatt	tgtcagcccg
3300	tctgctcatg	accacatgaa	tataacggat	ggaaattcga	cttatatgaa	cagggaaattg

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3360   cagaatccag  atcgtatttt  aacagatctc  ggcctaatac  gcctccttcc  agagccctgc
3420   ttcctctttc  agttttactg  tatattcgac  tcaaaagatg  ctctaaatct  cagtgcctaa
3480   gacgagatgg  aagttgccct  gtgtgtcaaa  gatttgaatg  ctcccagctt  ttatccatca
3540   atgatatcca  tctggataac  tgattccttc  gagaggaagg  agcatggaga  ggggtttgaa
3600   tctgttctag  cttgtttgga  ggatgctgta  actgatgctc  ctaaagcacc  gaaattcttg
3660   gtgctttag  aaatagggct  tgcagctgaa  gttctggaag  cgtcctggag  attattaaaa
3720   ctgaaaaagg  agaacag
3737

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Sequence Number (ID): 12

Length: 1245

Molecule Type: AA

Features Location/Qualifiers:

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- source, 1..1245
  > mol_type, protein
  > organism, Apium graveolens

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Residues:

```

60   MYIWLRRASR  DSIEKLIDPG  DSSGGQRNFS  GGGGKGSAA  TAPLPSLSTS  RSFKKPSNAQ
120  GSQIRVVNSD  IRNDATAGGN  VAVSGGSDAP  AVVKQNEVF  LSRYLLETSS  APPNLDEPET
180  GTEMCKLHLG  PHAIQTQKPS  VHPISGMPMQ  MPFHQQHIPV  QFGNPNPQLQ  SQSMVNSSMP
240  MPMGMPFPMG  NPSQVQQQLY  IQGLPPHMMP  PQGVMHQSQG  FSQQQPGNFG  GARKTVKITH
300  PDTHEELSLS  KKTDTYKESG  SICSITSNI  PPQSQPISSE  PTGRPSHREA  SSSHAWKLL
360  KLLCQQAHL  LRKIFLKYMV  EEKLHLFVLK  EILERQVICP  HRSQSIHRYL  FKLKQLAEYL
420  IHLPHLAPLP  SSIPSTPPEN  SEYSTGSSIT  VGAKNDLLDR  SNDNDEKHSK  RAYLYCRIRY
480  YPLLRLFLQ  YTSVAVVYGF  NKFCSQIDRP  VAPSLPEVVE  DRRSSSIPEA  QPGEENVRES
540  ETSVAVDLNT  NSSEVQGIHE  LEKSDGVILL  KCQLMYLWII  SQNIEAMRTQ  ESRNILLSEP
600  NADAAGEADA  DLSTSIVGT  DCLITETSSL  SLGSTISHDY  DKTSASDAST  IIDNTMASTE
660  TESDKLDQKS  QILSVPSQSE  PPCETEIADS  DSTEILLSSI  DLKDKPVPET  IMSKNTNTKK
720  KRKEALQKAN  RAETSSSQAK  ELASKFLRKM  FQMRVKLNQM  TWEDAADLST  PKLDDGKLLG
780  ESQEEIIDRS  MGRSGSGRRG  VGMGMGDDDK  WSKRATNFQR  GLMPSRPTPA  QVMHKARENY
840  LSKSRQVNID  NAGTLTGVIS  QIFDKALMEP  TFCEIGYFLN  KCQEEFERGE  REQEEANRAE
900  EEDEVKQSD  EREGRESRHE  GECWATSRLI  GELCKKKMLT  ERIMHECIKK  LLQYQNPDE

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960	EDVEALCKLM	STIGEMIDHP	KAKEHMDAYF	DMMAKLSNNM	KLSSRVRFML	KDSMDLQEKQ
1020	VAAEEERVNN	PWTLQEGQM	YYHRQIPIWE	DSVEHHNNHA	VMPLKIVRTV	RDTRLITGIL
1080	YCHRRPLGDS	ITLVPQGGLA	RGMSIRGQPP	MLSVPFSDMH	NQDSRRTTPG	LNGYGSVTDR
1140	PVYTSREELI	PRSAQRFVSP	SAHDHMNITD	GNSTYMNREM	QNPDRILTDL	GLIRLLPEPC
1200	FLFQFYCIFD	SKDALNLSAK	DEMEVALCVK	DLNAPSFYPS	MISIWITDSF	ERKEHGEGFE
1245	SVLACLEDAV	TDAPKAPKFL	VLVEIGLAAE	VLEASWRLK	LKKEN	

Sequence Number (ID): 13

Length: 160

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..160
 - > mol_type, other DNA
 - > organism, synthetic construct

Residues:

60	tcaatttgga	catgtttctt	cttaataata	attttaataa	taataatttc	aaaaatgttc
120	agaacctgtt	tgggaactag	gaattgacaa	ccgattgatt	ttccggaagt	tctacctcag
160	gatcatgagt	cgctgctttc	tcgcaggaag	catgtgctgg		

Sequence Number (ID): 14

Length: 462

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..462
 - > mol_type, other DNA
 - > organism, synthetic construct

Residues:

60	ggtaatgttg	ctgtttctga	atccttctca	agtgcagcaa	ctcatgaaga	gttgagttaa
120	aatattcctc	aagtatatca	agtgatatgt	cctcacagca	cctcctgaaa	attccgagta
180	ttccatttaa	caaattttgt	tctcagattg	atcgacctgt	tgcccccttcg	ttacccgaag
240	ttgtacaaa	tgcagatgct	gctggtgaag	cagatgctga	tttaaagaat	acaaatacaa
300	agaagaagag	aaaagaagtc	aactccaaaa	cttgatgttg	agagaggtga	gagggagaag
360	aggaaggtga	ggttaaaaga	aagggaagga	agagaaagaa	aaagatgtta	acagatgaat
420	gcattaagaa	actattgggc	cagtttgctc	caagagggtc	aactgtaaca	gaccggccag
462	ttcagtttta	ctgtatattc	ggaagttgcc	ctgtgtgtca	aa	

Sequence Number (ID): 15

Length: 24
Molecule Type: DNA
Features Location/Qualifiers:
- source, 1..24
 > mol_type, other DNA
 > organism, synthetic construct

Residues:
ttttccaagc gtggggaagc tgct

24
END