

Organization Applicant

Street :
 City :
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<110> OrganizationName : Valtion teknillinen tutkimuskeskus

Application Project

<120> Title : METHOD FOR PRODUCING TERPENES

<130> AppFileReference : VTT355

<140> CurrentAppNumber :

<141> CurrentFilingDate :

<160> 101

Sequence

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<211> Length : 9285

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SequenceDescription :

Sequence

<213> OrganismName : Primer

<400> PreSequenceString :

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20

<212> Type : DNA

<211> Length : 20

SequenceName : Seq_5

SequenceDescription :

Sequence

<213> OrganismName : Primer

<400> PreSequenceString :

caattctgcg gacgacaata

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<212> Type : DNA

<211> Length : 20

SequenceName : Seq_6

SequenceDescription :

Sequence

<213> OrganismName : Primer

<400> PreSequenceString :

gaccagaggg gatgttctac

20

<212> Type : DNA

<211> Length : 20

SequenceName : Seq_7

SequenceDescription :

Sequence

<213> OrganismName : Primer

<400> PreSequenceString :

actctgtccc tggaatgaag

20

<212> Type : DNA

<211> Length : 20

SequenceName : Seq_8

SequenceDescription :

Sequence

<213> OrganismName : Primer

<400> PreSequenceString :

caagattctg cgtcttcatc

20

<212> Type : DNA

<211> Length : 20

SequenceName : Seq_9
SequenceDescription :

Sequence

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<213> OrganismName : Primer
<400> PreSequenceString :
taataggcga atctggtgtc
<212> Type : DNA
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SequenceName : Seq_10
SequenceDescription :
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20

Sequence

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<213> OrganismName : Primer
<400> PreSequenceString :
gatattgtag ccctgtgtgc
<212> Type : DNA
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SequenceDescription :
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20

Sequence

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acatgctgat cacgtaaagc
<212> Type : DNA
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SequenceDescription :
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20

Sequence

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<400> PreSequenceString :
aaatagacga ctcccacctg
<212> Type : DNA
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SequenceDescription :
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20

Sequence

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ccgtctacca agtagtcacg
<212> Type : DNA
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SequenceDescription :
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20

Sequence

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<400> PreSequenceString :
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<212> Type : DNA
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SequenceDescription :
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20

Sequence

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tgttcttggc cccttctc
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18

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Sequence

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 SequenceDescription :

Sequence

<213> OrganismName : Primer
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 cagcattgcc ttttgagg 18
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Sequence

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Sequence

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Sequence

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 <212> Type : DNA
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 SequenceName : Seq_21
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Sequence

<213> OrganismName : Primer
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 <212> Type : DNA
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 SequenceDescription :

Sequence

<213> OrganismName : Primer
 <400> PreSequenceString :
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<212> Type : DNA
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Sequence
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      SequenceDescription :

Sequence
-----
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<212> Type : DNA
<211> Length : 20
      SequenceName : Seq_25
      SequenceDescription :

Sequence
-----
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<400> PreSequenceString :
agctagcatt cttgcgttc                                  19
<212> Type : DNA
<211> Length : 19
      SequenceName : Seq_26
      SequenceDescription :

Sequence
-----
<213> OrganismName : Primer
<400> PreSequenceString :
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<212> Type : DNA
<211> Length : 20
      SequenceName : Seq_27
      SequenceDescription :

Sequence
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<213> OrganismName : Primer
<400> PreSequenceString :
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<212> Type : DNA
<211> Length : 18
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      SequenceDescription :

Sequence
-----
<213> OrganismName : Primer
<400> PreSequenceString :
gaatggcgta ggactgttg                                    19
<212> Type : DNA
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Sequence
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<213> OrganismName : Primer
<400> PreSequenceString :

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cgtatccata aactcggtaa tc
 <212> Type : DNA
 <211> Length : 22
 SequenceName : Seq_30
 SequenceDescription :

Sequence

 <213> OrganismName : Primer
 <400> PreSequenceString :
 cattcattcg ctgttagagg
 <212> Type : DNA
 <211> Length : 20
 SequenceName : Seq_31
 SequenceDescription :

20

Sequence

 <213> OrganismName : Primer
 <400> PreSequenceString :
 caccttttct gttccacac
 <212> Type : DNA
 <211> Length : 20
 SequenceName : Seq_32
 SequenceDescription :

20

Sequence

 <213> OrganismName : Primer
 <400> PreSequenceString :
 gtaaggatct gtacggcaac
 <212> Type : DNA
 <211> Length : 20
 SequenceName : Seq_33
 SequenceDescription :

20

Sequence

 <213> OrganismName : Primer
 <400> PreSequenceString :
 agatccacat ctgttgaag
 <212> Type : DNA
 <211> Length : 20
 SequenceName : Seq_34
 SequenceDescription :

20

Sequence

 <213> OrganismName : Aspergillus nidulans
 <400> PreSequenceString :
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<212> Type : DNA

<211> Length : 1368

SequenceName : Seq_35

SequenceDescription :

Sequence

<213> OrganismName : Aspergillus nidulans

<400> PreSequenceString :

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<212> Type : DNA

<211> Length : 1310

SequenceName : Seq_36

SequenceDescription :

Sequence

<213> OrganismName : Aspergillus nidulans

<400> PreSequenceString :

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<212> Type : DNA

<211> Length : 3056

SequenceName : Seq_37

SequenceDescription :

Sequence

<213> OrganismName : Aspergillus nidulans

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<212> Type : DNA

<211> Length : 996

SequenceName : Seq_38

SequenceDescription :

Sequence

<213> OrganismName : Aspergillus nidulans

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Sequence

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<211> Length : 2872

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<212> Type : DNA

<211> Length : 26755

SequenceName : Seq_43

SequenceDescription :

Sequence

<213> OrganismName : Aspergillus nidulans

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YAEISLLLEP	GELIYVAPSL	MTTKMLDRSA	VQTVFRCLTR	IPADHPISID	DSGWLSSDIG	240
RLPADVYCLD	HDGEEYTVCW	RKLEMEYFDG	EKDITALPFY	PLKFHPNYER	FLSNRARQGT	300
AFRALVEDEN	LHHYYAGWTL	ITGLFERTES	DGKSTESKPE	DSEYVDSEVF	LDTQEARRHM	360
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ERNALVSVFL	RVLEYYSGLV	FLTTNRVGAL	DEAFRSRVHL	SLFYPHLNRT	DMAKILESNI	660
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<212> Type : PRT

<211> Length : 924

SequenceName : Seq_44

SequenceDescription :

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<213> OrganismName : Aspergillus nidulans
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EIRRKLLLEAF NHWKYVDEQS CQAIATTVGM AHNASLLIDD IQDSSKLRRG VPCAHEVFGI      180
AQTINSANYV YFLAQNLFR LRSWPQAISV FNEEMVNLHR GQGMELFWRD NLLPPSMDDY      240
LQMIANKTGG LFRMIVRLLQ TSSRQVIDVE QLVDVLGLYF QILDDYKNIR EEKMAAQKGF      300
FEDLTEGKFS FPICHAIGEG AKNRTALLHM LRLKTDDMKI KQEAVCILDN AGSLDYTREX      360
LYGLDRKARS LLREFKTPNP FMEALLDAML SSLQACH                                397
<212> Type : PRT
<211> Length : 397
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      SequenceDescription :

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Sequence

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GGVTALVLGD GMTRAPIVRF PSLEEAGAAK QWLGSDAGFL IIEDAFNASS RFARLQNIKA      180
TAVGSDLYIR FFASTGDAMG MNMISKGVEQ ALEAMQKHGF ESMDEVVSLSG NFCADKKPAA      240
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VVTAIYLATG QDPAQNVQSS NTLTVMKNVN GDLQISVFMP SIEVGTVGGG TVLGPQKAML      360
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<212> Type : PRT
<211> Length : 416
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Sequence

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<400> PreSequenceString :
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LSRQLQAWSV KDTVHVGFEI ILPALLRLLR EKGHEFEFDG RAELDRLNRI KLSKFRPEYL      180
YSARTTALHS LEAFVGMIDF DKVAHQKVNQ SFMFSPSSTA AFLMFSSSWD DECEQYLRVL      240
LQNGAGGGTG GMPSAYPSKY FEVSWVRGQL ARLESKLTLE QALTTLLDNG YSTGDLGIED      300
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FRTYHGERDP SFTANSNVLL ALLNTPDAAT VSPQIEKAAA FLCDVWWTAD SEIGDKWNLS      420
PYYPSMLMAE AFGKLLQVWS DGGLKSISSQ FIRDRVSVCL YQALVRTLQT QNENGWGS      480
SHEETAYAIL TIAHACQLPV VNQLWTVNQL AVSRGRKFLQ NSAGDKAEYL WVEKVYSS      540
LLSKSYVLA LKVSFERSYP ACLANLFIVS KKRIVIEFARF HSMLPLFSSM ELWKVRAAIV      600
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LPQAKRIKMG SQLPSDVS RV LSAFVHHVMD HPSVKAAPL EYERVKNELQ VFLLSHIEQA      780
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FQTCEEKYVA EAMCRHLAVM CRMYNDYGSL ARDRDEKNLN CVNFPEFAQA GPKSDAVRQK      900
QLFSLAEFER SNMKRGLEVL TEMAQDRAK MRMLEKVQMF CDVTDVYGQI YALEILRVGC      960
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<212> Type : PRT
<211> Length : 979
      SequenceName : Seq_47
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Sequence

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<213> OrganismName : Aspergillus nidulans
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VFEDSLRDRK YLVGDRLTLA DIMCVSLVSF GFAQIFDKEW REAFPYFSGW YMMVMHLPIM      240
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<212> Type : PRT
<211> Length : 266

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SequenceName : Seq_48
SequenceDescription :

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<213> OrganismName : Aspergillus nidulans
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MVSLKTVQAS NAGLRALPNI TALFVGGTSG IGQSTLRQLA RYADSPTAYI IGRNEARTRP      60
FLSELQQLNP KGRFHFIHAD VSLVRNVDAE CQQILQQQKK LNFLFMTPGG ISLGGRNETV      120
EGIDYLFALR YYSRMRFIQN LLPLLEASSP SRVISVYGGG FEYSINTADL DLKHNFSLLN      180
AYKHSITMTS LSMEHLARTH PAVSFIHVYP GLVGTNIYTN SFPAPVSTFY NYLVWPFMKP      240
FSVDLGESGE RHLFHLSSAH YPAKQGIVPQ GVPLEAGEVA KGITGEPGSG AYLLNWKGDV      300
RPSTKILAQY REQIPQLVW DHTESLMDQA VHR      333
<212> Type : PRT
<211> Length : 333
SequenceName : Seq_49
SequenceDescription :
```

Sequence

```
-----
<213> OrganismName : Aspergillus nidulans
<400> PreSequenceString :
MVDATSPPGV NAVVNYVVPN SDGSPPATND MAVMLGQKDM ISHKMRIRDL RPYKEEYSLD      60
RNGFQYATIH STLTADTDET QIKEVYYREI EKLVDITGA KRVLAFFHAV RTRTGNEFGE      120
QIKDRYQGVV GPAYRVHIDQ TPQGALSIVQ FMFPDLADDV RNSGFQVINV WRPLTRVQRD      180
PLMVADAAEM PPEDLLLISR KYYNGLHSSN FVIKYDGRMA AGEGPTDGLS GDGKHSWWYI      240
GDQEPTEALV FSSSGFRNGK AIIGTAHDLY SAEPMINAYE RKNASSLYGH DESQI      295
<212> Type : PRT
<211> Length : 295
SequenceName : Seq_50
SequenceDescription :
```

Sequence

```
-----
<213> OrganismName : Aspergillus nidulans
<400> PreSequenceString :
MDNYTWHSGT LIPSDSPSSI DRSQLYLEIL GVLSVVYLLQ TLVAYSFSFK APFVGFRFWY      60
EPKWLVLGRF SQGALAQVNE GYAKYKNAMF KVARNDSDIL VIPNKYVEEL RSLPDEKISA      120
IRAHIKNLLG KYSTTLILLE SDLHTRMLQT KLTPNLGSFI EVIESELLFA MDQEIPANLD      180
DWQSVNVFHI VLRIVARISA RVFLGVPACR NEEWLQTSIH YTENVFATVM LLRRFPKWMH      240
PIVGHLLPSY WAIHRNLRTA KRIISPMVRQ RRAEEAKRNP DYVKPNDLLQ WMDGANEND      300
GQPDKLAHRQ LLLSLASIHT TTMAAAHCFY DLCQHPEYFE PLREEINDVI AQDGGWKKTT      360
LNKMRKLDSF LKESQRINPP SLLAFNRIVS EDLTLSDGTL LPKGTHFSMP SAAILQDNGV      420
EPGADQFDGF RYYKKRLNPE EANKHQFAMT DNNNLHFGHG KYSCPGRFFA SNEIKIIMAH      480
LLTDYEFKYP RGATRPRNLT ADENLYPDPS ARLLMRRRVV APPQASITPQ LVSA      534
<212> Type : PRT
<211> Length : 534
SequenceName : Seq_51
SequenceDescription :
```

Sequence

```
-----
<213> OrganismName : Aspergillus nidulans
<400> PreSequenceString :
MYPWSSTGTS PFSHPDNEGA ESGDMSMGEE QQQPHQRRQK FNNLRACQSC RASKVRCDQP      60
NPGMPCLRQC KSGKPCVDAA SQPGKRQRQP INSILEMESR IETILSSAEL QDSAGDGETA      120
HSTALRSPSQ LSHHIQPFQH LPMGFAIPFN GGNSGTEDLN SSIRSWLNDN ITDLDDARTTE      180
TIFSHYLTNM VPTFPVVVFA TGTAAADVRR NNPIFLAIL DVASSGFCAL ETQRKLRLKI      240
VQAYVHCLMR TEQYTLGLLQ ALIVSATWYR TIEPVEPGEQ MDIYQISHTA ANMALIMRLG      300
ESLNAKSWGQ PMFPRREMCK GPGSFAQADS LEARRVWLGC HYICSNTSMS LRAPNIMRWT      360
RLMDECLLEV ENSPAALLSD RLLCQHRLQ HITEEFAMHL SAEASAPAK SRAIQIQVTH      420
RAFKRQLSEW RRTVGDGWDH HCTATSDDVP EDNAQRLTPP PPIVAIEPHA ITEFMDTIDN      480
IFRVFTSLDM STIRALPAMY LIRIIYTFII LVKLYFAAAK LPAQDAVLQV DGLQVSRRFN      540
RVIQMTAGWG PLWPATKLTT VFTKMRSWFE SGGDNCCQRL QQAAAWLTGW ELKPPSQGRD      600
AHAMNMAEVV SDDGSIVASS SRGPASWVPS LASTDVTDLA FSHEPPLGTE FSIAPPPFRS      660
MSCATKSCSP QAGAAEFMHD EEVPLEGQRL GDLPNIDQMD DVGMDWSQYT NMGFDLYNLD      720
APFLPNPPSG FDPDAAMKDN CADRNT      746
```

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<212> Type : PRT
 <211> Length : 746
 SequenceName : Seq_52
 SequenceDescription :

Sequence

<213> OrganismName : Citrus unshiu

<400> PreSequenceString :

MRRSADYGPT	IWSFDYIQL	DSKYKGESYA	RQLEKLKEQV	SAMLQQDNKV	VDLDPLHQLE	60
LIDNLHRLGV	SYHFEDEIKR	TLDRIHNKNT	NENLYATALK	FRILRQYGYN	TPVKETFSHF	120
MDEKGSFKSS	SHSDDCKGML	ALYEAAYLLV	EEESSIFRDA	IRFTTAYLKE	WVVKHDIDKN	180
DDEYLCTLVK	HALELPLHWR	MRRLEARWFI	DVYESGPDMM	PILLELAKLD	YNIVQAIHQE	240
DLKYVSRWWM	KTGLGEKLN	ARDRVVENFF	WTVGDIFEPQ	FGYCRRMSAM	VNCLLTSIDD	300
VYDVYGTLDL	LELFTDAVER	WDATATEQLP	YYMKLCFHAL	YNSVNEMGFI	ALRDQEVGMI	360
IPYLKKAUAD	QCKSYLVEAK	WYNSGYIPTL	QYEMENAWIS	VTAPVMLLHA	YAFTANPITK	420
EALFLQDQSP	DIIRISSMIV	RLEDDLGTSS	DELKRGDVPK	SIQCYMHETG	VSEDEAREHI	480
RDLIAETWMK	MNSARFGNPP	YLPDVFIGIA	MNLVRMSQCM	YLYGDGHGVQ	ENTKDRVLSL	540
FIDPIP						546

<212> Type : PRT
 <211> Length : 546
 SequenceName : Seq_53
 SequenceDescription :

Sequence

<213> OrganismName : Citrus unshiu

<400> PreSequenceString :

atgagaagaa	gtgctgacta	tggctctact	atatggtcctt	tcgattacat	ccaaagttaa	60
gactctaagt	acaagggtga	aagttacgcc	agacaattgg	aaaaattgaa	ggaacaagtt	120
tctgctatgt	tgcaacaaga	taataagggt	gttgatttgg	acccattgca	tcaattggaa	180
ttgatcgata	acttacatag	attgggtgtc	tcataccact	tcgaagatga	aattaagaga	240
acattggaca	gaatacacaa	taagaacaca	aacgaaaact	tatacgcaac	cgccttgaag	300
tttagaattt	taagacaata	cggttacaac	actccagtta	aggaaacatt	ttctcatttc	360
atggatgaaa	aaggttcatt	caagtcttca	tcccactccg	atgactgtaa	gggcatgttg	420
gctttatatg	aagccgctta	cttggttggt	gaagaagaaa	gttctatctt	tagagatgct	480
atcagattca	ccactgcata	tttgaaagaa	tggttagtta	agcatgatag	agacaagaac	540
gatgacgaat	acttatgcac	tttggtcaaa	catgctttgg	aattaccatt	gcactggaga	600
atgagaagat	tggaagcaag	atggtttatc	gatgtatatg	aatctggtcc	agacatgaac	660
cctatcttgt	tggaattggc	taagttggat	tataacatcg	tacaagcaat	tcaccaagaa	720
gatttgaaat	acgttttctg	atggtggatg	aagaccggtt	taggtgaaaa	attgaatttc	780
gccagagata	gagtcgtaga	aaactttttc	tggtacagtag	gtgacatctt	tgaacctcaa	840
ttcggttatt	gtagaagaat	gtcagctatg	gttaattgct	tgtaaacatc	catagatgac	900
gtttatgatg	tctacggtac	tttggtacgaa	ttggaattgt	ttacagatgc	agttgaaaga	960
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gtaaccgctc	cagttatggt	gttacatgca	tacgccttta	ccgcaaacc	tataactaag	1260
gaagccttag	aattcttgca	agattcacca	gacataatca	gaatatcatc	catgatcggt	1320
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tacttgccag	atgttttcat	tggtatcgca	atgaatttgg	tcagaatgtc	ccaatgtatg	1560
tatttgtagc	gtgacggtca	tggtgttcaa	gaaaatacca	aagacagagt	tttatcattg	1620
ttcatcgacc	ctatccctta	a				1641

<212> Type : DNA
 <211> Length : 1641
 SequenceName : Seq_54
 SequenceDescription :

Sequence

<213> OrganismName : Citrus unshiu

<400> PreSequenceString :

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gactccaagt	acaaggggga	gagttatgca	cgccagctcg	aaaagttgaa	ggagcaagtc	120
tccgcatatc	tgagcaaga	taacaaggct	gtggatcttg	accccttgca	ccagctggag	180
ctcatcgaca	atctccaccg	gttgggcgtg	agctaccatt	tcgaagatga	gatcaagcgt	240

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accctcgacc gaattcataa caagaatacg aacgagaatc tctatgccac agctttgaag 300
ttccgcatcc ttccgagcagta cgggtataac acgcctgtta aggaaacatt ctctcacttt 360
atggatgaga agggcagctt taagtccagc tctcattctg atgactgcaa gggcatgttg 420
gccctttacg aggcagcgta tctgctcgtg gaggaagagt cgtcaatctt ccgcgacgcc 480
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gatgacgaat atctttgtac cctgggtgaag cacgcgctgg agctccctt gcatgtggcg 600
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cctattttgc ttgagctcgc aaagtgtgat tacaatatcg ttcaggcgat tcatcaagaa 720
gacctgaagt atgtctcccg ctggtggatg aagaccggcc tcggtgaaaa gttgaacttc 780
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tttattgacc ccatcccata g 1641

```

<212> Type : DNA

<211> Length : 1641

SequenceName : Seq_55

SequenceDescription :

Sequence

<213> OrganismName : primer

<400> PreSequenceString :

catgctggat ccaaatgag aagaagtgtc gactatggtc

40

<212> Type : DNA

<211> Length : 40

SequenceName : Seq_56

SequenceDescription :

Sequence

<213> OrganismName : primer

<400> PreSequenceString :

cgctttggat ccttaaggga tagggctcat gaac

34

<212> Type : DNA

<211> Length : 34

SequenceName : Seq_57

SequenceDescription :

Sequence

<213> OrganismName : primer

<400> PreSequenceString :

catgctggat ccaaaatgcg ccggctcggc gactacgg

38

<212> Type : DNA

<211> Length : 38

SequenceName : Seq_58

SequenceDescription :

Sequence

<213> OrganismName : primer

<400> PreSequenceString :

cgctttggat ccctatggga tggggtcaat aa

32

<212> Type : DNA

<211> Length : 32

SequenceName : Seq_59

SequenceDescription :

Sequence

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-----
<213> OrganismName : Saccharomyces cerevisiae
<400> PreSequenceString :
atggaccaat tgggtgaaaac tgaagtcacc aagaagtctt ttactgctcc tgtacaaaag      60
gcttctacac cagttttaac caataaaaca gtcatttctg gatcgaaagt caaaagttta      120
tcattctgagc aatcgagctc atcaggacct tcattcatct gtgaggaaga tgattcccg      180
gatattgaaa gcttggataa gaaaatacgt cctttagaag aattagaagc attattaagt      240
agtgggaaata caaaacaatt gaagaacaaa gaggtcgctg ccttgggtat tcacggtaag      300
ttacctttgt acgcttttga gaaaaaatta ggtgatacta cgagagcggg tgcgggtacg      360
aggaaggctc tttcaatttt ggcagaagct cctgtattag catctgatcg tttaccatat      420
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cctttgcccg ttgggtgtat aggccccctg gttatcgatg gtacatctta tcatatacca      540
atggcaacta cagagggttg tttggtagct tctgccatgc gtggctgtaa ggcaatcaat      600
gctggcgggtg gtgcaacaac tgttttaact aaggatggta tgacaagagg cccagtagtc      660
cgtttcccaa ctttgaaaag atctggtgcc tgtaagatat ggtagactc agaagaggga      720
caaaacgcaa ttaaaaaagc ttttaactct acatcaagat ttgcacgtct gcaacatatt      780
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tatggctggg aagatatgga ggttgtctcc gtttctggta actactgtac cgacaaaaaa      960
ccagctgcca tcaactggat cgaaggctcg ggtaagagtg tcgtcgcaga agctactatt      1020
cctggtgatg ttgtcagaaa agtggttaaaa agtgatgttt ccgcattggg tgagttgaac      1080
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gcagctaatt tagtgacagc tgttttcttg gcattaggac aagatcctgc aaaaaatgtt      1200
gaaagtcca actgtataac attgatgaaa gaagtggacg gtgatttgag aatttccgta      1260
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ccaacaaaac ctaacaattt ggacgccact gatataaatc gtttgaaaga tgggtccgct      1560
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<212> Type : DNA
<211> Length : 1578
      SequenceName : Seq_60
      SequenceDescription :

```

Sequence

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-----
<213> OrganismName : primer
<400> PreSequenceString :
agcgcggtac catggacaa ttggtgaaaa ctgaag      36
<212> Type : DNA
<211> Length : 36
      SequenceName : Seq_61
      SequenceDescription :

```

Sequence

```

-----
<213> OrganismName : primer
<400> PreSequenceString :
agcgcggtac ccacatgggt ctgttgtgct tc      32
<212> Type : DNA
<211> Length : 32
      SequenceName : Seq_62
      SequenceDescription :

```

Sequence

```

-----
<213> OrganismName : primer
<400> PreSequenceString :
gcggccgccc ttgtatctc      19
<212> Type : DNA
<211> Length : 19
      SequenceName : Seq_63
      SequenceDescription :

```

Sequence

```

-----
<213> OrganismName : primer

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<400> PreSequenceString :
gcggccgctg atgtctgctc aagcggg                                     27
<212> Type : DNA
<211> Length : 27
      SequenceName : Seq_64
      SequenceDescription :

Sequence
-----
<213> OrganismName : primer
<400> PreSequenceString :
tacgactcac tatagggcga attgggtacc gggccccccc acgtggatga tggacggcgc   60
aaac                                                                    64
<212> Type : DNA
<211> Length : 64
      SequenceName : Seq_65
      SequenceDescription :

Sequence
-----
<213> OrganismName : primer
<400> PreSequenceString :
attgatttga gcctgtgtgt agagatacaa gggcggccgc gttgtatatatt ggtcaggtag   60
gagtcaa                                                                    67
<212> Type : DNA
<211> Length : 67
      SequenceName : Seq_66
      SequenceDescription :

Sequence
-----
<213> OrganismName : primer
<400> PreSequenceString :
gactaacagc taccccgctt gagcagacat cagcggccgc atgtaccggt ggagttcgac   60
<212> Type : DNA
<211> Length : 60
      SequenceName : Seq_67
      SequenceDescription :

Sequence
-----
<213> OrganismName : primer
<400> PreSequenceString :
gccaaagcgcg caattaaccc tcactaaagg gaacaaaagc tgcacgtggc tgggcaggcg   60
atcaag                                                                    66
<212> Type : DNA
<211> Length : 66
      SequenceName : Seq_68
      SequenceDescription :

Sequence
-----
<213> OrganismName : Aspergillus fumigatus
<400> PreSequenceString :
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tgacgaaata tgttgtgtat atatatatat gtacgttaaa agttccgtgg agttaccagt   120
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gagtacgact ttaaatttag tccccggcgg cttctatattt agaatatattg agatttgatt   360
ctcaagcaat tgatttggtt gggtcacctt caattggata atatacctca ttgctcggct   420

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cttaatatgg aaggctcctc aggacaagtc gacctgtgca gaagagataa cagcttgga      1680
tcacgcatca gtgcctcctc tcagacaggc tccttcaata tcattctctg tc              1732

```

<212> Type : DNA

<211> Length : 1732

SequenceName : Seq_69

SequenceDescription :

Sequence

<213> OrganismName : primer

<400> PreSequenceString :

gatttcagta acgttaagt gatcaaag

28

<212> Type : DNA

<211> Length : 28

SequenceName : Seq_70

SequenceDescription :

Sequence

<213> OrganismName : primer

<400> PreSequenceString :

gacagaagat gatattgaag gaggc

24

<212> Type : DNA

<211> Length : 24

SequenceName : Seq_71

SequenceDescription :

Sequence

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<213> OrganismName : Aspergillus nidulans
<400> PreSequenceString :
acgtggatga tggacggcgc aaacgagaac gacgggcagc cgcacaagct ggcgcaccgc      60
cagctcctcc taagcctggc ttccatccac acaacaacca tggcggcggc gactgcttc      120
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<212> Type : DNA

<211> Length : 12508

SequenceName : Seq_78

SequenceDescription :

Sequence

<213> OrganismName : Malus x domestica

<400> PreSequenceString :

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FEGEDILDEA KASLTALRD SGHICYPDSN LSRDVVHSLE LPSHRRVQWF DVKWQINAYE 240
KDICRVNATL LELAKLNFNV VQAQLQKNLR EASRWWANLG IADNLKFARD RLVECFACAV 300
GVAFEPEHSS FRICLTKVIN LVLIIDDVYD IYGSEELKH FTNAVDRWDS RETEQLPECM 360
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<212> Type : PRT

<211> Length : 576

SequenceName : Seq_79

SequenceDescription :

Sequence

<213> OrganismName : Picea abies

<400> PreSequenceString :

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<211> Length : 1641
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Sequence

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DDEYLCTLVK HALELPLHWR MRRLEARWFI DVYESGPDMN PILLELAKLD YNIVQAIHQE      240
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VYDVYGTLDL LELFTDAVER WDATEATEQLP YYMKLCFHAL YNSVNEMGFI ALRDQEVGMI      360
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<211> Length : 546
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Sequence

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<212> Type : DNA

<211> Length : 12485

SequenceName : Seq_82

SequenceDescription :

Sequence

<213> OrganismName : Taxus chinensis

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<212> Type : DNA

<211> Length : 2589

SequenceName : Seq_83

SequenceDescription :

Sequence

<213> OrganismName : Taxus chinensis

<400> PreSequenceString :

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ESHFSLCDRL	LNTTNSVIAL	SVWKTGHSQV	EQGTEFIAEN	LRLLNEEDEL	SPDFEIIIFPA	240
LLQKAKALGI	NLPYDLPFIK	YLSTTREARL	TDVSAAADNI	PANMLNALEG	LEEVMWKKKI	300
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SDVLNNFKDE	NGRFFSSAGQ	THVELRSVVI	LFRASDLAF	DEGAMDDARK	FAEPYLRDAL	480
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<212> Type : PRT

<211> Length : 862

SequenceName : Seq_84

SequenceDescription :

Sequence

<213> OrganismName : Taxus chinensis

<400> PreSequenceString :

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SequenceDescription :

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SequenceDescription :

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 Sequence Description :

Sequence

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 <212> Type : DNA
 <211> Length : 18
 SequenceName : Seq_95
 SequenceDescription :

Sequence

<213> OrganismName : 5' fragment primer (DNA)
 <400> pyrGAF2/3_R3
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 <212> Type : DNA
 <211> Length : 24
 SequenceName : Seq_96
 SequenceDescription :

Sequence

<213> OrganismName : 3' fragment primer (DNA)
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 <212> Type : DNA
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SequenceDescription :

Sequence

<213> OrganismName : 3' fragment primer (DNA)

<400> 3'AN1594R

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<212> Type : DNA

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SequenceName : Seq_98

SequenceDescription :

Sequence

<213> OrganismName : KS cDNA

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<212> Type : DNA

<211> Length : 2859

SequenceName : Seq_99

SequenceDescription :

Sequence

<213> OrganismName : KS protein
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IGATKWDEEA	EDYLRHVMRN	GAGHGNGGIS	GTFTPTTHFEC	SWIIATLLKV	GFTLKQIDGD	300
GLRGLSTILL	EALRDENGVI	GFAPRTADVD	DTAKALLALS	LVNQPVSPDI	MIKVFEGKDH	360
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<212> Type : PRT

<211> Length : 952

SequenceName : Seq_100

SequenceDescription :

Sequence

<213> OrganismName : Aspergillus nidulans
<400> deletion vector

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