

BCS10-2015_ST25.txt
SEQUENCE LISTING

<110> Bayer BioScience N.V.
VIB VZW
Universiteit Gent
De Block, Marc
Hannah, Matthew
Van Der Kelen, Katrien
Van Breusegem, Frank

<120> A gene expression signature for the selection of high energy use
efficient plants

<130> BCS10-2015

<160> 353

<170> PatentIn version 3.5

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<210> 16
 <211> 637
 <212> DNA
 <213> Brassica napus

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<210> 17
 <211> 555
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 <213> Brassica napus

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gcttgtcaga	gatccaaaaga	aacgaacccg	tgcgttgagg	aatgagaagg	tcagatggag	540
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<210> 18
 <211> 679
 <212> DNA
 <213> Brassica napus

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 aagggaagcgt ataaagacaa ggataggtca agagttaaagg atagatcgag taagaaaagc 240
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<210> 19
 <211> 844
 <212> DNA
 <213> Brassica napus

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 tccatggtct cctcatgggt gtttgaagat tttaaatctg ctctttcaga agatctcagt 780
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<210> 20
 <211> 699
 <212> DNA
 <213> Brassica napus

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 gttttgagca tttgttttgg atcccataat cattcgtac 699

<210> 21
 <211> 676
 <212> DNA
 <213> Brassica napus

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<210> 22
 <211> 565
 <212> DNA
 <213> Brassica napus

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<210> 23
 <211> 404
 <212> DNA
 <213> Brassica napus

<400> 23						
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<210> 24
 <211> 897
 <212> DNA
 <213> Brassica napus

<220>
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 <223> n is a, c, g, t or u

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<210> 25
 <211> 716
 <212> DNA
 <213> Brassica napus

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<210> 26
 <211> 937
 <212> DNA
 <213> Brassica napus

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<210> 27
 <211> 629
 <212> DNA
 <213> Brassica napus

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<210> 28
 <211> 744
 <212> DNA
 <213> Brassica napus

<400> 28						
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<210> 29
 <211> 693
 <212> DNA
 <213> Brassica napus


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<400> 29
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cagtcaatga ggataagaat gaagaatatg aggatggaaa tgatgaagaa gattacgagg 480
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<210> 30
<211> 484
<212> DNA
<213> Brassica napus

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<210> 31
<211> 1011
<212> DNA
<213> Brassica napus

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<223> n is a, c, g, t or u

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<220>
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<223> n is a, c, g, t or u

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<220>
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<222> (763)..(763)
<223> n is a, c, g, t or u

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<220>
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<223> n is a, c, g, t or u

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<220>
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<223> n is a, c, g, t or u

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<213> Brassica napus

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<212> DNA

<213> Brassica napus

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<212> DNA

<213> Brassica napus

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<213> Brassica napus

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<210> 47
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<212> DNA
<213> Brassica napus

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aaaaagcaga tgtttattcg tatggtgtaa ttctcctgga gcttatcact ggtcggaaac 480
ctgtagatac gtctcagcca cttggggacg aaagccttgt tgaatgggca aagcccttgt 540
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602

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<210> 48
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<212> DNA
<213> Brassica napus

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<223> n is a, c, g, t or u

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cgctaccacg ggttggcgta gagtttcacc tcgagaaaac actggaccgt gtggaatggt 480
acggaagagg tccatttgag tgttaccggg accgaaaaat agcagccctt gtggggatat 540
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<210> 49
<211> 742
<212> DNA

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<213> Brassica napus

<400> 49

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acggcttgac	tgcatagacg	aggtcttgac	gacgtgtgca	atgctttcag	taccttcagt	360
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<210> 50

<211> 788

<212> DNA

<213> Brassica napus

<400> 50

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tggatatggc	tacacagaag	gcagatatct	aattacacac	tatattgctg	agcgacagtc	300
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<210> 51

<211> 1174

<212> DNA

<213> Brassica napus

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<223> n is a, c, g, t or u

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<222> (715)..(715)

<223> n is a, c, g, t or u

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<222> (747)..(747)

<223> n is a, c, g, t or u

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<221> misc_feature

<222> (1017)..(1019)

<223> n is a, c, g, t or u

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<221> misc_feature

<222> (1037)..(1037)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (1122)..(1122)

<223> n is a, c, g, t or u

<220>

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 cactgaggct tttttcataa gcaagagtta atagatttct tcgaggaata catcaagatt 240
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 atgaagatgt atcacagaag gaagaagaag gtattaaaaa gaagaggaaa gattnggttt 720
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<210> 52
 <211> 1886
 <212> DNA
 <213> Brassica napus

<400> 52
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 <211> 803
 <212> DNA
 <213> Brassica napus

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 <213> Brassica napus

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aaccagaggg	actaagtgat	aaaccaaaag	ctgagccatc	agcagcacca	gcagaagctc	240
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agctttgttg	ttgcaaagtg	tgatattgtca	aaatgtgaac	tagtaacttc	catgagtagt	480
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<210> 55
 <211> 897
 <212> DNA
 <213> Brassica napus

<220>
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 <222> (29)..(29)
 <223> n is a, c, g, t or u

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<210> 56
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 <212> DNA
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gagagtatcc	tgaggattat	tttcttgccg	tgagattact	tcatttggtta	tatgtacaaa	660
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<210> 57
 <211> 792
 <212> DNA
 <213> Brassica napus

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 <212> DNA
 <213> Brassica napus

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 aaaaaaaaaa aaaaaagggc ggccgctcta gagtatccct cgaggggccc aagcttacgc 600
 gtaccagctt ttcttgtaga aagtgggtccc tatagttagt cgtattataa gctaggcact 660
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 accttacttc tgtggtgtga cataattgga caaactacc 759

<210> 59
 <211> 776
 <212> DNA
 <213> Brassica napus

<400> 59
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<210> 60
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<210> 61
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 <212> DNA
 <213> Brassica napus

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<210> 62
 <211> 917
 <212> DNA
 <213> Brassica napus

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 <211> 680
 <212> DNA
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 <212> DNA
 <213> Brassica napus

<400> 64						
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<210> 65
 <211> 501
 <212> DNA
 <213> Brassica napus

<400> 65						
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<210> 66
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 <212> DNA
 <213> Brassica napus

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<210> 67
 <211> 718
 <212> DNA
 <213> Brassica napus

<400> 67						
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<210> 68
 <211> 495
 <212> DNA
 <213> Brassica napus

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<210> 69
 <211> 681
 <212> DNA
 <213> Brassica napus

<400> 69						
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<210> 70
 <211> 573
 <212> DNA
 <213> Brassica napus

<400> 70						
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<210> 71
 <211> 726
 <212> DNA
 <213> Brassica napus

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 <211> 598
 <212> DNA
 <213> Brassica napus

<400> 72						
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<210> 73
 <211> 902
 <212> DNA
 <213> Brassica napus

<400> 73						
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 <212> DNA
 <213> Brassica napus

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gcactctggt	ctttttgcat	tgaataaaga	gagtgagtca	ttgtgtattc	agcagacttt	660
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 <213> Brassica napus

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 <212> DNA
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 <211> 471
 <212> DNA
 <213> Brassica napus

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 aatgttttag gcgttgggtg aggtggagggt tgcggagtgg gtttaggcct cgggtggggg 240
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<210> 115
 <211> 982
 <212> DNA
 <213> Brassica napus

<220>
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 <223> n is a, c, g, t or u

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 ctcgccggaa aacagtgcag gccatggacg ttgtctacgc tctcaagagg cagggtcgga 180
 ctctgtatgg attcggcggg tgattcgatt gtttcagttt cagatcttgt aaaatctttt 240
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<210> 116
 <211> 443
 <212> DNA
 <213> Brassica napus

<400> 116
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<210> 117
 <211> 692
 <212> DNA
 <213> Brassica napus

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<210> 118
 <211> 512
 <212> DNA
 <213> Brassica napus

<400> 118						
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<210> 119
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 <212> DNA
 <213> Brassica napus

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<210> 120
 <211> 600
 <212> DNA
 <213> Brassica napus

<400> 120						
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<210> 121
 <211> 446
 <212> DNA
 <213> Brassica napus

<400> 121

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 <212> DNA
 <213> Brassica napus

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<210> 123
 <211> 547
 <212> DNA
 <213> Brassica napus

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 <211> 306
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 <211> 695
 <212> DNA
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695

<210> 126
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 <212> DNA
 <213> Brassica napus

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 <223> n is a, c, g, t or u

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 <222> (926)..(926)
 <223> n is a, c, g, t or u

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 <212> DNA
 <213> Brassica napus

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	aagtggcaga	agagagtgat	ggtgatttgg	gtttcggctt	gttcgactaa	gcaagaagca	420
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	tcagctttca	aaactattct	aataacatag	aagagaggat	tggattcttg	atactactgt	300
	tcgtctcttt	tttttttttt	ttataataac	tcttgaacag	tgcaagttca	acttttgttc	360
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<210> 129
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<400> 129

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<210> 130
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<212> DNA
<213> Brassica napus

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662

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<210> 131
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<212> DNA
<213> Brassica napus

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<223> n is a, c, g, t or u

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<220>
<221> misc_feature
<222> (617)..(623)
<223> n is a, c, g, t or u

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<220>
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<223> n is a, c, g, t or u

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<220>
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<223> n is a, c, g, t or u

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1033

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 <212> DNA
 <213> Brassica napus

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 gggaagcacc gcaagcatcc aggaggtcgc ggtaacgcgg gaggtatgca tcaccaccgt 240
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 ggg 1023

<210> 133
 <211> 582
 <212> DNA
 <213> Brassica napus

<400> 133
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 cgcttcttcc acctacgacg tccagcgcaa gctcgttcag actgctctct ccgccgattc 180
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 cataaaactc tttccaagggt ggtgttttag ttctgtggtt gttgatctca gattctttat 480
 tttggttttt cttttcgaaa cggttttgag attgagctct atgattttgc aatgtcagaa 540
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<210> 134
 <211> 513
 <212> DNA
 <213> Brassica napus

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 gccatcaacc attigagcgg agattacttc tctgagttct tgccttactc cactgtctac 240
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<220>
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<400> 135
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<210> 136
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<220>
<223> primer

<400> 136
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<210> 137
<211> 21
<212> DNA
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<220>
<223> primer

<400> 137
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<210> 138
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<220>
<223> primer

<400> 138
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<210> 139
<211> 20
<212> DNA
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<220>
<223> primer

<400> 139
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<210> 140
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<212> DNA
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<220>
<223> primer

<400> 140
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<210> 141
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<212> DNA
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<220>
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<400> 141
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<210> 142
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<220>
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<220>
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<400> 143
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<210> 144
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<220>
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<400> 144
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<210> 145
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<220>
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<400> 145
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<210> 146
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<213> Artificial Sequence

<220>
<223> primer

<400> 146
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<210> 147
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<212> DNA
<213> Brassica napus

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<210> 148
<211> 485
<212> DNA
<213> Brassica napus

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tcaagagaag caaggatatt gttaagttca aggtcagggtg ctcgagggtac ctctacacac 180
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<210> 149
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 <212> DNA
 <213> Brassica napus

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<210> 150
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 <212> DNA
 <213> Brassica napus

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<210> 151
 <211> 375
 <212> DNA
 <213> Brassica napus

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<210> 152
 <211> 759
 <212> DNA
 <213> Brassica napus

<400> 152						
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<210> 153
 <211> 577
 <212> DNA
 <213> Brassica napus

<400> 153						
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<210> 154
 <211> 408
 <212> DNA
 <213> Brassica napus

<400> 154						
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<210> 155
 <211> 696
 <212> DNA
 <213> Brassica napus

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<210> 156
 <211> 287
 <212> DNA
 <213> Brassica napus

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<210> 157
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 <212> DNA
 <213> Brassica napus

<400> 157						
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<210> 158
 <211> 590
 <212> DNA
 <213> Brassica napus

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<210> 159
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 <212> DNA
 <213> Brassica napus

<400> 159						
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<210> 160
 <211> 507
 <212> DNA
 <213> Brassica napus

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<210> 161
 <211> 617
 <212> DNA
 <213> Brassica napus

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aaaaaaaaaa	aaaaaaa					617

<210> 162
 <211> 544
 <212> DNA
 <213> Brassica napus

<400> 162						
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<210> 163
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 <212> DNA
 <213> Brassica napus

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<210> 164
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 <212> DNA
 <213> Brassica napus

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<210> 165
 <211> 608
 <212> DNA
 <213> Brassica napus

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<210> 166
 <211> 609
 <212> DNA
 <213> Brassica napus

<400> 166						
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 <212> DNA
 <213> Brassica napus

<400> 167						
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 <211> 655
 <212> DNA
 <213> Brassica napus

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<210> 169
 <211> 763
 <212> DNA
 <213> Brassica napus

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 <212> DNA
 <213> Brassica napus

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 <212> DNA
 <213> Brassica napus

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 <212> DNA
 <213> Brassica napus

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 aatcggatca aagagggcaa gtttagtctc aatggagtcg actacactct tcccatcaac 300
 aagcctccca acagcctcca cggtggtaac aaagggttctg ataagaagat ctgggacgtt 360
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 ggagaagaag gttaccccgg tgcggctgcc gtcattggcg catacactct cacgtcagcc 480
 acgacctaga gacttgacat ggaggcagtt ccggagaaca aagacactcc catcagctta 540
 gctcagcata catactggaa cttagcgggt cagcctcag gaaacattct tgaccatagg 600
 atccagattt ggggggtctca tgtcactcct gtggatcagt tcacagttcc tacaggggag 660
 atcttgccgg taaagggaac tccttttcg 688

<210> 174
 <211> 390
 <212> DNA
 <213> Brassica napus

<400> 174
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 tggacaacgc ctaacattaa cgaggcaatg cagctatgcg tggatgcttg ttcaaaactt 180
 ggagagatca tgcgtgattg tctgaaacag gctgcctcag ctccgatga atgaacatac 240
 tctcaagaaa ctatggatcc tcagccattg gtatgaaacc ggtaagatg tggtttaggt 300
 aaaattgagt ttatactaaa ctggagtggt gtagtttaaa accgatgtaa tttgctatgt 360
 caaatttgat ggaactagag atattttaag 390

<210> 175
 <211> 732
 <212> DNA
 <213> Brassica napus

<400> 175
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 catgcccaga ccgtgaaccc atgatatgca ttcatccac tcggaggcgg tgggacagcc 120
 catgcccata tgccctgaag ccgtggtgtg tcgtcaaaca agaaaacaaa agcgagacgc 180
 ttaagcctcc ctctgcttct tcttctcctc gcgaccggcg ctcttgcgct ccaggataga 240
 ctgcggtccc ttgtcgagct tgagcttggg gatgacgacc ttggaggagg cgatgggggt 300
 gggaaccgac tggccgttgc tcttctcgcg gacgatgccg ttgacatgaa tgcagtactt 360
 gaggcggtag acggaggaga ccttgccctc acgtcccttg ttagaaccgc ggacaacggt 420
 gatctcgtca tccctacgga tgggaatgct gcgcactccg tgcttctcgc ggagctcctt 480
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 atgtgcgggt tgtcgggtta gtagacaaag cggacgcgtg ggtcgaccgc ggaattccgg 660
 accggtacct gcaggcgtag cagctttccc tatagttagt cgtattagag cttggcgtaa 720
 tcatggtcat ag 732

<210> 176
 <211> 500
 <212> DNA
 <213> Brassica napus

<400> 176
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 aaagatagac aagaagttat tattgaaaag gttgtgcgca acaagcgcaa gtctatcacc 120
 atcgtgaaag gactagaact gtttgggata aaactcagtg acgctctaa aaagtttggg 180
 aagaagtttg ctacaggagc gtcagttgtc aagggaccaa ctgaaaagga gcaaattgat 240
 gttcaaggga atataatcta tgacatcgtt gaattcatta cagacacttg gcccgatgta 300
 cctgaaagat ccatttttct cattgaagat gggaagaaag ttcaagctgg ttgatcacca 360
 cctctggcct gttttttttt gggcatggca ggttcacgtg tttggaggaa acgctacgag 420
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 ctttgaaaaa aaaaaaaaaa 500

<210> 177
 <211> 635
 <212> DNA
 <213> Brassica napus

<400> 177
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 ggggtttcacg gcggagagta tcagtacctg atcggagaag cgctcatcat tcctaagtag 120
 attattcaat ggcaaccagt cagtacactt tcccttcttc acgtgcatat atttatcgca 180
 tctgtatttg acgatttctc tcaatctcgt actctctccg cagtggctag gtcgtttctg 240

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cttggatctt	atcagactgt	agagctgtatt	gagaccttca	tgaactacc	aggagaacat	600
caagaggtgt	gtgtgtatta	tatacgatcc	ctcta			635

<210> 178
 <211> 741
 <212> DNA
 <213> Brassica napus

<400> 178						
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cgccgccaat	gatggagacg	ccgatgggta	agaagaaacg	tgagcggccg	aggaagtatg	660
ctcctgaagg	tcaagtctcc	ttagggcctt	ctcccatgcc	ttcttcttct	tctgcgagta	720
acaaagctaa	ggactcttct	g				741

<210> 179
 <211> 568
 <212> DNA
 <213> Brassica napus

<400> 179						
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caatgggagg	agctatcaac	aagactgtga	acattgtgga	gctgattaag	agaaggatcc	300
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aagaggaagg	ccttctacct	attgagacca	caaggcatgt	ttccatgata	accattatcc	420
tatccacgaa	agagcttaat	acatcctctg	ttgggtatca	gtgcccattt	cctattgaga	480
tggtgaagcc	tttaggcgat	atcgactatg	aaggaggaga	gggttcacct	ggtggcagag	540
gcagaggaag	gggaagagga	agagggag				568

<210> 180
 <211> 619
 <212> DNA
 <213> Brassica napus

<400> 180						
agtcttcatt	agcgagaaaa	aatccaatcg	ttagagcctc	caggcatctc	ggccctccac	60
ctgggtttta	ctctgtcccc	tctaagctgg	ttaaaggagga	agcacctggt	ccggatatgt	120
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catcatcaca	gacacaagca	gaatttcctt	atgctcagca	tcctcagaga	gacaacgac	360
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tgtgaaatca	caatggaaga	gtaacacggg	gagtgtctgc	tacctaactc	caacttagcc	480
tcgttctgtt	gaagtctctc	ttgttgaggt	gtttgtagcc	ttggtttctt	gtggggcgct	540
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gaatgaatgg	tttctggga					619

<210> 181
 <211> 465
 <212> DNA
 <213> Brassica napus

<400> 181						
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gactataaaa	attggcaagt	cctgtgacat	gggtcataga	tggacggttt	caaaatctgt	120
atcagattgc	gctgaggccc	tgattggtgc	ctattacgtc	agcgggtgat	tgactgcggc	180
tccttcacatg	atgaaatggc	ttggctttga	cgttgaattt	gacagagaac	tagtgaatga	240
agccatcaat	agagtgtctc	tacggtgtta	catcccctaa	gacgatgagc	ttacggagtt	300

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ggagacaaag	atccgacgtg	aattctcttc	aaagttcctt	ttgaaagagg	ctatcacaca	360
ctcatctgtt	catgaatcct	actcctacga	gaagattgga	gtttctaggc	cattccgtgc	420
ttgattttct	aatcacccga	catcctcttt	aacacctacg	aaaaa		465

<210> 182
 <211> 555
 <212> DNA
 <213> Brassica napus

<400> 182						
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tcccgtgaaa	taatgatggc	tcactttgtg	tttttttttg	tgtgtgttga	tttgcaggac	120
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aaaccacaat	tattgtgaat	ggtgaataaa	tttgatgttg	gcgattcagt	tcaattcgtt	420
tactactaaca	atctcgctag	aacttcagat	tattattctg	aaatctgcat	ttacagatta	480
accatcctag	ctaaatacga	tttaacacca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	540
gtactctgcg	ttgat					555

<210> 183
 <211> 520
 <212> DNA
 <213> Brassica napus

<400> 183						
gatactgaat	ccaccggagc	tttggacttg	tctaagatca	gagagatgag	gcttgttcct	60
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cctgaaccaa	ttgaagaaga	agaagaagaa	gaagaagaag	aagaacataa	ctgggtgttt	180
agtgtgtatc	agatgggttg	tggtggagga	gcggaagaag	acggcgaatg	gccaatatct	240
cagagcccga	cgagtgtaat	tggtctatcc	attggagatg	aaggggggtc	tgctcagcct	300
atgctcagac	tccagatcaa	tgatcagagg	tttgacgacg	ctgaagagat	ggttcatgaa	360
agtgaagacca	aagatcacta	atctgtttcac	aaatgtatta	ctccaaaaca	gagttgtttc	420
ttatgttaaaa	acagtgtcgt	ctctctgttc	ttcaaagctg	agctgtgtgc	tttgttaaat	480
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<210> 184
 <211> 606
 <212> DNA
 <213> Brassica napus

<400> 184						
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tacacagcag	tcttacaaaag	taagcgattc	attcccattc	aagtggataa	acaagaagtg	300
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<210> 185
 <211> 686
 <212> DNA
 <213> Brassica napus

<400> 185						
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tttcttttgac	aaccctatct	taatcgtata	tctcgttaatt	ttctgaaaga	aaaaaaaaaa	660
aaaaaaaaaaaa	aaaaaaaaaaaa	catgtc				686

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<210> 186
 <211> 395
 <212> DNA
 <213> Brassica napus

<400> 186	aagcatggga	gtttataatg	aagatgccta	tggagcctga	tgagaaagtc	tggtcgacgt	60
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	ttgtttgtta	taacacggaa	gattcagctg	ctcttgttct	attgtcaaac	gcgtacagag	180
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	gaaaagaacc	tggcctgagc	tggattacca	ttggagggtca	aatccacaag	ttttgctctg	300
	gggatcacca	ccatccccag	aaggatgata	tatacagagt	tttgaatgat	ttgatggaaa	360
	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	atgtc			395

<210> 187
 <211> 786
 <212> DNA
 <213> Brassica napus

<220>
 <221> misc_feature
 <222> (645)..(645)
 <223> n is a, c, g, or t

<400> 187	cccacgcgtc	cggtgccgcg	gcgacccaat	caattataag	accattaaag	tcataatctt	60
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	tttcagagat	acgatgtcga	caccagcgag	gaagaggctg	atgagggtat	tcaggagggt	180
	gcagcaagat	cctcctgctg	gtatcagtg	tgctcctcag	gacaacaaca	tcttgctctg	240
	gaacgctggt	atcttcggtc	cagatgatac	gccttgggat	ggagggtact	ttaagttgac	300
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	gtttcaccca	aacatctatg	cagatgggag	tatctgtctt	gatatcttac	agaaccagtg	420
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	ccccgagttt	gtaacatttg	aagaagtga	ggagaggcct	atcanattgg	ttaaaaaag	660
	tggtgtttca	tgccctccgg	tcagttaagt	tatcatgtaa	tgtaattgtc	ggatgaacct	720
	aaatgtattt	gaatgataag	acatcttgct	tgcttttaag	ttgtgtgcgt	aatgtaacta	780
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<210> 188
 <211> 775
 <212> DNA
 <213> Brassica napus

<400> 188	cctatcagta	acctttttaca	ccagttttcac	tgatcaataa	caaagagaaa	ttaatgttgt	60
	gaacccccaga	aagaaaagaaa	aaacgcgtgaa	tccaaacaca	agctaaacca	aacaacatgt	120
	atataaaaaat	gctaaaccaa	actatacaca	gattacaacc	aaaagggtctt	tgtgtgtgtt	180
	ttcccgttag	aatcatctca	tccttccatc	caaaagtaca	aacattcatg	taattaactt	240
	aagagaatga	tgcccttcagc	ttcacacatc	tctctttttc	tctcatccaa	gactcaaacg	300
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	aagagacgac	aagcttttgt	tgattgcttg	agctctttta	agtctatctc	tacttgatgc	600
	acgtttttgga	caaacgcgtga	ctttctgtta	gattaattat	gtccaacact	cttcgctctt	660
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	atactgtttc	ttcatctttt	cctctactc	cgactgcctt	tcacattgcc	gacag	775

<210> 189
 <211> 890
 <212> DNA
 <213> Brassica napus

<400> 189	aatctggtac	gcctgcaggt	accgtgtccg	gattcccggg	tcgaccacg	cgctccgcca	60
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	tacaattatg	gtcctatcca	gttttgaagc	caaactctga	agtttgaatt	cacctcgcat	420
	ccgctccaag	gtaaagaaat	aacgtaagta	ttattatatc	ttactgcaa	gtaaattttc	480

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gaaaaaatct	aatcatagtt	gataaatttg	gtttcttcag	attaatgtca	atggacagta	780
aatgtatgaa	ttgcacctga	ttacacttgc	ttgagaagg	cattgggtca	gaatcaagt	840
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<210> 190
 <211> 305
 <212> DNA
 <213> Brassica napus

<400> 190						
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tccagattga	tgctaaaata	ccaatggctg	cacttcttga	tttgctgaa	gaatgagtga	180
tcttaaacaa	acaatcggtt	tggtctttgt	gtttattttat	gtgctactaa	tcatacatgt	240
tgcttcatca	agcgattttg	attctacgta	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaac	300
ttgtc						305

<210> 191
 <211> 822
 <212> DNA
 <213> Brassica napus

<220>
 <221> misc_feature
 <222> (15)..(15)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (72)..(72)
 <223> n is a, c, g, or t

<400> 191						
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tctgacatac	aaaatctctg	ggattaatta	atgccttcaa	ttcaaaatta	cagacatcaa	180
aaaaagaaa	atggtaggag	gatcaaaagg	aacaaaatga	gattcaaact	taacagctga	240
ttcagttttc	attcatcgat	tgggttagga	ggtggaggag	ctaaaatgat	gttcaatgtc	300
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gatccgctac	acagaacatc	tttagagtgt	tatggattcg	ctctagtgcc	atgcttccaa	480
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acatcaattg	gtatccccct	ggctgcaccc	agatctatcg	agttccaact	tttcttttct	780
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<210> 192
 <211> 470
 <212> DNA
 <213> Brassica napus

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gaagagagcc	agtgggtccca	aatgccctgt	tacaggcaag	cgtatccatg	gaattcctca	180
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agctaccaag	gcttgagggt	tttacgtttt	ttttattttg	gccttgaaag	gatacatctt	420
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<210> 193
 <211> 662

<212> DNA
<213> Brassica napus

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<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (638)..(638)
<223> n is a, c, g, or t

<220>
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<223> n is a, c, g, or t

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	ttgctgggtg cgcagctgca aatgcagtgc gagattacca gaggaaattc caagaaatga	180
	atgaagagag gagagtcctt gaccgggagc tggcccgctg aaaggtaagc gcaagcaggg	240
	ttgcaactgt agtggcaaat gagtggaaag atggtagcga caaagtgatg cctgtgaagc	300
	aatggctcga agaacggaga tttctgcagg gagaaatgca acagctacgt gacaaaacttg	360
	ccatagctga ccgagctgca aaatcagaag ctgagctgaa ggagaaattt caactgcggc	420
	ttaaaggtctt agaagagagt ttaagagggc ctccaagcgg tggcaacaga acgacacctg	480
	gaggaagaag tatcagcaac gggccttcac gaagacaatc acttggcgga gccgatgtca	540
	taccaaact gacctcaaat ggattcttct ccaagagaac accgagttcc cagttcannt	600
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	ac	662

<210> 194
<211> 480
<212> DNA
<213> Brassica napus

<220>
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<223> n is a, c, g, or t

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	aagcttattt ggctgccttt gaccaatcaa aagctcctga agaaggtgca ctgagggag	180
	aacatgaaga agcagttcga aaagccttg ctatgtttta cgccaatgct gttagggctg	240
	gtatagcaag aaaaagatac gaggatcttc ttcacaagg cttgaagaaa aaatttgcgg	300
	attacaaaag aaatgcattc atggaggcag atttgcggtg caggagtgtc atccaaagta	360
	tggagaagca gctgagagca gcttgccatg cctctaattg gaatatggat aatgtttgtca	420
	aggttctaga agctcgtttg tcagcctann aagcatcatg ccatggccca gggaaatggc	480

<210> 195
<211> 577
<212> DNA
<213> Brassica napus

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	gagacatttt ccatgcaagc tgagaatgac gccaaagaag gtgctgattt ctcggctgca	180
	aagcattgtc gaatggagtt actgcttcag caatctgtgg gtcattgagg gtcagctttt	240
	aagcactgca agacgactca tgaatcatta aaggtgatga acagtaagca agtcgcagat	300
	gtctcttcac ttgttaagtg tgcttgatga aataacgagg agcacgacac cgaagtggat	360
	tctgcaagga ctgctggtga gaaagatgta gccaaaaaca gcgatgagat aatccagcaa	420
	attgatcgca tgtcggagga cgagaaagtg tctttatcac aaatattgga caatgtcaag	480
	acacatgaaa aatctcttga aagtttccaa caggatcatt gttgccaagc cagatgcatt	540
	gaggataaag ctcaagaaac ttttcaacaa agatata	577

<210> 196
<211> 511
<212> DNA
<213> Brassica napus

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<400> 196
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aagggttcgt tcagtttagt ctggtggttag gcgatagctg gtctcattca tgcaccaact 240
gagtgattct gtattggaac ggtgatgagc gttatgcgta tatcgataag tccccctcac 300
ttccttcggc ttccgcttcg tacactgtga ctggtagagg tctaagaaat tcctcatcaa 360
gtagtaagt tgtcaagatg atgtaaagac ataatacaag catatgagta agctttctat 420
ggtttccttt gctgcgtgtc aaaatgatgt aaagacataa cataagcaca tgagtaagct 480
ttctttcgtt tagttttgat tttgattgaa g 511

<210> 197
<211> 655
<212> DNA
<213> Brassica napus

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gcatttataa aagacatggt cacttctgac cttgaaatag ctcgatgtga aggttcattc 300
gtccggacag ttagtggtcat tagaggacaa gttaaaaagg ctgggaaaaa catgctcgat 360
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atagtcttct taagggtctg gacccagtg gaagttccac aattttacaa ccctctaact 480
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agcgagcata acatttctat tccagtgaat aaggattcac tctacaagcc gatcgaaagg 600
aagacaaaga agttcaaccc attggtgatt ccaaagaaac tacaagcaga gttac 655

<210> 198
<211> 681
<212> DNA
<213> Brassica napus

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gatcaataaa agtgatgatg gaatctggct gtgaagagg aacgttggag gcagaagtgt 480
caaacaaagg agcgttggct ctatatggga gactcgggtt catagaagcc aaacggctac 540
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<212> DNA
<213> Brassica napus

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tttggaatc gagactttca taccaatgtt acttcagagg caagaagatg gccattcacg 180
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caactggaga tacagagact tgggagacct ttccattgtt aaggaagcac ccatctttca 420
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cgtcagtgct tatataatac atggagattg cta 573

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<223> n is a, c, g, or t

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 tctatcaggg ttgtttctag acgacttatt gtatatctct aagcttttag aagtgatgct 360
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 tactcaaagt tgagaggtat tgtagccttg taggcagtac ttgtaagttg taacgttttag 480
 ttaaccacca atgatgcttt caaatatccn agataaaaaa aaaaaaaaaa aaaaaaaaaa 540
 aaaaaaaaaa aa 552

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 <211> 659
 <212> DNA
 <213> Brassica napus

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 caacttcaag gctgttaaag atccaaacac tggctcttac tctttttctt tccaaaacta 600
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<210> 202
 <211> 683
 <212> DNA
 <213> Brassica napus

<400> 202
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 aaaaaaaaaa aaaaaaaaaa aaa 683

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 <212> DNA
 <213> Brassica napus

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 accgcctcca tggatgctgg tcaagttggt ttccacaatt ccaagat 527

<210> 204
 <211> 345
 <212> DNA
 <213> Brassica napus

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agattgccaa	gatgaagggt	cgctactctg	gatcggtaag	aggaagggtg	cccgtgaagc	300
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 <212> DNA
 <213> Brassica napus

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 <212> DNA
 <213> Brassica napus

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<210> 208
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 <212> DNA
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<210> 209
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 <212> DNA
 <213> Brassica napus

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 <222> (646)..(646)
 <223> n is a, c, g, or t

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 <212> DNA
 <213> Brassica napus

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 <212> DNA
 <213> Brassica napus

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cacaagtact	gcttggttggg	ccgtctctct	tctgaggttg	gctggaacca	ttgcgacact	480
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 <211> 455
 <212> DNA
 <213> Brassica napus

<400> 212

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 <212> DNA
 <213> Brassica napus

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 <213> Brassica napus

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agaccaagtg	tgtaaacgat	catgaggggt	tgcttgtttt	cttttatgat	tttgagtaac	480
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<210> 216
 <211> 532
 <212> DNA
 <213> Brassica napus

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<210> 217
 <211> 502
 <212> DNA
 <213> Brassica napus

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 <222> (444)..(446)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (476)..(478)
 <223> n is a, c, g, or t

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<210> 218
 <211> 433
 <212> DNA
 <213> Brassica napus

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<210> 219
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 <212> DNA
 <213> Brassica napus

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atatt						605

<210> 220
 <211> 725
 <212> DNA
 <213> Brassica napus

<400> 220						
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<210> 221
 <211> 696
 <212> DNA
 <213> Brassica napus

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<210> 222
 <211> 332
 <212> DNA
 <213> Brassica napus

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<210> 223
 <211> 756
 <212> DNA
 <213> Brassica napus

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<210> 224
 <211> 414
 <212> DNA
 <213> Brassica napus

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<210> 225
 <211> 526
 <212> DNA
 <213> Brassica napus

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 <212> DNA
 <213> Brassica napus

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 <212> DNA
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<210> 228
 <211> 369
 <212> DNA
 <213> Brassica napus

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 <222> (162)..(163)
 <223> n is a, c, g, or t

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 <222> (294)..(294)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (296)..(296)
 <223> n is a, c, g, or t

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 <212> DNA
 <213> Brassica napus

<400> 229
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 aattcgaagt caaaggcgac gatttagtgt acactgagct gcgtaaacca gagacggaga 180
 caaagccttg ggagcttaac gaggatttgc ctgggatggg tcaattctac tgcttgcat 240
 gcgatcggtg tttctccaag gcgtctgtgc gagatgatca tttcaagacg aagaaacata 300
 agaagcgtgt gaagataatg aatggaccag cgccacactc gcaactcgat gcagatttag 360
 ccgctggaat ggggaatgcc gacaatgggt caaagctcat ggctgcttga gtttacttca 420
 gtttagtttg gtttgggtct gtttctcatt agtctacagt ttatggaacc tagattgttg 480
 ttggtagaga tggctccttag tagttaaaact atataaaatcc taaattaatg atatgcgttt 540
 tttgttctt 550

<210> 230
 <211> 597
 <212> DNA
 <213> Brassica napus

<400> 230
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 caacaccttg cttcgcgcta aagatggcag cgcttttgct aaatgtgaag gatgcaacaa 180
 gaacgtagct gttgcgctta tcagtatgca caattgcagc ctcgacgcta aaattcgagt 240
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 gaagaagtca acatctgatg aacctaattt aaagagactc aggaagtcca aggatgagaa 360
 taagaagaag agctcttcct ccaacaagcc caagcgacct cttacagcct tcttcatctt 420
 catggctgat ttccgcaaaa ctttcaaaga agagaatcct gacgctggcg ttaaggatgt 480
 tgcaaaagcag ggtggtgaaa agtggaagtc tttggatgag gaagagaaga aagtttattt 540
 ggagaaagct gctgaactaa aggcgtgaata caacaagtca ctggagagca gcaacga 597

<210> 231
 <211> 583
 <212> DNA
 <213> Brassica napus

<400> 231
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 ggcgaagcat ataggattaa gatgtatgcc tgagaacggt gcgtttctca aatgcaagaa 180
 gaacgatcca aaccctgaga aatgtcttga aaagggtcgt gacgtcactc gctgtgtcct 240
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 tatgtattac tacacaaacg agtttgatct ctgtaggaaa gagcaagaag ctttcgagaa 360
 agtgtgtccc ctgaaatgag aatcacaagc taatttgtaa tctcctattc attaaaatga 420
 gcttattttac tctcttcctt ttgttgtcgt caccattttt tactctcaag tgctttcgta 480
 gcgacttctc aaagacagcc aaatgactca gttttcattg tttgattgtt cttaaccag 540
 gcacagaatc tgttttatgt gcttatcttt tgccatactt gac 583

<210> 232
 <211> 743
 <212> DNA
 <213> Brassica napus

<400> 232
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 ctaaggaaac aagcgagct cttgggatgg gattcagatg tggcttctc ggtttgcttc 180
 acatggatgt atttcatcaa cggcttgaac aagagtacgg tacacaagtg atctccacga 240
 tccctaccgt tccttacacc ttcgaatact cagatgggag caagttgcaa gtgcagaatc 300
 ctgctgcatt accttcaaac cccaaatata gagtacagc ttcttgggag ccaacggtga 360
 tcgccacaat catccttcct agtgagtacg taggagctgt gatcaacctc tgctctgacc 420

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acatcctctt	gaacggtcag	gcagttgatg	cgtagcaac	tattgttcac	aaccagaaag	660
cttaccgcgt	gggtaaagag	cttggttgaga	agcttaagaa	cttcatagag	aggcagatgt	720
ttgaagtaat	gatacaagct	gct				743

<210> 233
 <211> 613
 <212> DNA
 <213> Brassica napus

<400> 233						
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aaacagaact	aaagctgata	caaaaaaaca	ttcgttatga	caacaatgat	gataatgaag	240
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tagaaacaat	gaaatagccg	atctccagtg	gaaaaagggt	gaagaaccaa	aagagttcac	420
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acccttacta	ccataacact	gtcttcacca	agacatctca	catgattgat	aaagataagc	540
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<210> 234
 <211> 602
 <212> DNA
 <213> Brassica napus

<400> 234						
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catcggttgg	gagtggcgtg	tatgagtact	atacatgggc	aaagcttggg	gaaaagatta	180
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caagcacatc	gccagatggc	tcttttggtg	ctgggacctt	gtatgatgat	ataccatatg	480
acaccgatgc	ttcaaagcct	ggctaccata	ttaaaagact	aggacatat	tccttctcct	540
gccagaagct	tggccagatc	tctgtccgtg	tttcttcaaa	gggacacgcc	gagaactcaa	600
tc						602

<210> 235
 <211> 513
 <212> DNA
 <213> Brassica napus

<400> 235						
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ctttgtgctg	ctaatacagta	tagtatattc	tttgcatact	gctatctttg	tgctaatacca	120
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tggtttggct	tggggtttctt	tcgcattgcc	cctccctcga	gacgaaaatg	ggtgccttca	240
ggtttcacca	gtaccagggt	gtcgggaagag	ctctcccgac	agagaaggat	gttcaaccca	300
agatttacag	gatgaagctc	tgggccacga	acgaggttcg	tgccaagtcc	aagttctggt	360
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gcagaactgg	gtaccacaac	atgtacaagg	agt			513

<210> 236
 <211> 123
 <212> DNA
 <213> Brassica napus

<400> 236						
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aggtagaatg	atgttttgat	gatttcaagg	aaccaatgcy	tttaattctat	tgtagaatt	120
gcg						123

<210> 237
 <211> 208
 <212> DNA
 <213> Brassica napus

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<400> 237
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gtggaatttg agggagatga agatgatgag gaaaatgatg aaggctctga tgaagacgat 180
gaggaggggg acggtgaaga tgatgagc 208

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<210> 238
<211> 721
<212> DNA
<213> Brassica napus

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<400> 238
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tcgtttgggt ggtcaagtcc ttggtgaaat cggttccctt cctgatgtct ttgttgaaact 180
cgaggtgaac ttctttcttc tacggcgtct gttgggagtg agaacaagg gatcagagaa 240
gcaagggaaa gtgtcaaagc taacaaaggg agagattctg atgctcaaca tcggttccat 300
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tcctgtatgc acgagcagag gagagaaagt ggcactaagt aggcgtgtgg agaagcattg 420
gcgtttgatt ggttgggggtc agattcaagc tgggaaccacc attgaagtgc ctccttcacc 480
tttctgaggt gtgttgctt aattttcatg ttggtttttt ttttggagag tacctatctg 540
cggatataca ttgttacta gttttactct tgttttgtgc ttttctttct tagatgttta 600
ttgcattttt gtctcatttt cattaaacttc tctgtttta tatactctgg gaatttcagt 660
atggccgggtg aagtttacag aaacgagtta aaaaaattta aaaaaaaaaa aaaaaaaaaa 720
a 721

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<210> 239
<211> 260
<212> DNA
<213> Brassica napus

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<220>
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<222> (235)..(237)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (239)..(240)
<223> n is a, c, g, or t

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<400> 239
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gttggtcttg agagatggag gatattgggt tgggttaaaca aggttggaag tggatgcagt 180
ctcagaaaca tatgtgctcg aacgcttggt ctgcggcgcg gcgttttgtg gaganntnn 240
gggagcttgt ggagcgtcac 260

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<210> 240
<211> 663
<212> DNA
<213> Brassica napus

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<400> 240
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tgtggagatg atggttacgg aagctcagga ttttttctcg aaatggggag agagtgggta 180
agtggatcta aagactgagc tagagcggct catcatctta accgcaagca gatgtttact 240
aggtcgtgaa gttcgtgacc agctttttga tgacgtgtcc gctttgttcc acgaccttga 300
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cagggaccgt gcacgtgaaa agctctccga gatgtttaca aagatcattg ggtcgagaaa 420
acgctccggg aaatgcgaga acgacatgtt gcagtgttcc atcgagtcga agtacaaga 480
cgggaggcag acgacggagt ccgaggttac cggctctgctc atcgccgctc tctttgcagg 540
acagcacacg agctccatca ctccacgtg gacaggtgag tacctgatga agtacaaga 600
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cga 663

```

```

<210> 241
<211> 759
<212> DNA
<213> Brassica napus

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<400> 241
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caaatcaaca	ggccttccac	gtaagcgttt	ctacagagca	agagctcata	gcaaccact	120
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gaagtacatt	ccgaattact	ttgagaaagg	acagctttcc	aagatgtttt	tcctcttccc	480
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gcttggagag	tggatgaggt	cttgcttgga	gaaacatccg	atgtttgagt	ctttgacgca	660
agatgagctt	gattcggatc	ctgtcgttga	gcttctgtgc	agtgtacttg	aggaagggca	720
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<210> 242
 <211> 733
 <212> DNA
 <213> Brassica napus

<400> 242						
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tcttcttgcg	gcagttagtt	gccctagggg	gaagacgggc	atagcacttg	cggcagatca	180
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ggagacgcag	caccaagtga	agagtagatt	cggacgcgtg	ggtcgacccg	ggaattccgg	300
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tcatggatcat	agctgtttcc	tgtgtgaaat	tgttatccgc	tcacaattcc	acacaacata	420
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tttcaccagt	gagacgggca	acacctgatt	gcccttcacc	gcctggccct	gaaagagttg	660
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<210> 243
 <211> 460
 <212> DNA
 <213> Brassica napus

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cggatacaac	aggtgtgtca	aaatatctgg	acttgccaac	ttcttcttcg	aagtatacca	300
cgagcagtag	ttcatacact	gcatctccgg	gtacaggaag	aagatctaga	agagcagtag	360
atcaaacacca	aaacggatac	ggtttcta	atgatccgaa	aataattata	tctgactcgt	420
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<210> 244
 <211> 394
 <212> DNA
 <213> Brassica napus

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gtctccaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa			394

<210> 245
 <211> 757
 <212> DNA
 <213> Brassica napus

<400> 245						
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<210> 246
 <211> 710
 <212> DNA
 <213> Brassica napus

<400> 246						
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aaaaacattt	gtttatcttt	gaataaacta	aacagtgtgg	ttatttgaat	tttaatgatt	660
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<210> 247
 <211> 508
 <212> DNA
 <213> Brassica napus

<400> 247						
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<210> 248
 <211> 697
 <212> DNA
 <213> Brassica napus

<400> 248						
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cagcctgcgc	caagcaacaa	gaggacggcg	actgcactctg	tttccaaaac	acctgtccct	660
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<210> 249
 <211> 485
 <212> DNA
 <213> Brassica napus

<400> 249						
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tcaagagaag	caaggatatt	gttaagtcca	aggctcaggtg	ctcgagggtac	ctctacacac	180
tttgcgtctt	cgaccaagag	aaggctgata	agcttaagca	gtctcttcct	ccagggtttga	240
gtgtgcaaga	cctttgaaca	tctcttcaag	tgtcaatggg	accgacctgt	gttgaagttt	300
taagatacct	ttttatttat	ttggagatta	tagtttttga	atcaagactc	ttcttctctt	360

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cttttcaaga cctggatttg tattttgcct aatgtgggta gtaacaagaa gcattcacat 420
taattttcta tatggttttg atttattcca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaac 480
atgtc 485

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<210> 250
<211> 736
<212> DNA
<213> Brassica napus

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<220>
<221> misc_feature
<222> (557)..(557)
<223> n is a, c, g, or t

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<400> 250
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cgagatgtta ccgtcagatc aagggggaagc catacccgaa atcgcgatac tgccgtgggtg 120
tccccgaccc caagatccgt atctacgacg tcgggatgaa gaagaaagga gtcgacgagt 180
tccattcttg cgtccaccctc gtctcatggg agaaagaaaa cgtctccagc gaagctctcg 240
aggccgcgcg tatcgcttgc aacaagtaca tgggtcaaatac agctggaaaa gatgctttcc 300
atttgaggat taggggttat cctttccatg ttctgaggat caacaagatg ctttcgtgcg 360
ctggggctga taggccttcag actggtatga gaggtgcctt tggtaaggct ttggggactt 420
gtgctagggt ggcgattggg cagggtgcttt tgtctgtgag gtgtaaggat aaccatgggg 480
ctcatgctca ggaggcgctt aggagggtta agtttaagtt ccctgggtcg cagaagatta 540
ttgttagcag gaaatgngga ttcaccaagt tcaaccgtgc tgattacact aggctgagac 600
agtccaagag gattgttcct gatggtgtca atgctaagtt cttatcgaac catggtcgtt 660
tggctaaccg tcaacctgga agtgcggtca tatcagccac cagcgattaa gagtgaagaa 720
atgatttggtg gttgta 736

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<210> 251
<211> 508
<212> DNA
<213> Brassica napus

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<400> 251
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ctctgtctgt cagcgctcgt gtctcgccag cgccgctgat caccatggat ctaccaaggt 180
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ctcgtgcatt tacttttact ttcagcacct tgtgactggg cttgttatca aagccagcaa 420
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tcatgtatcc agtggatgat tctgttcc 508

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<210> 252
<211> 411
<212> DNA
<213> Brassica napus

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<400> 252
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tctgtagatg agagcaagac accgagtggg tctgcggatg gaagcaagtc tgagaatggc 120
tctgcagcag gtggggaaga tgatgatgga ttcaagacga ttacaagccg taggaacaga 180
agaggaaaacg gagacaagaa aaacagtggg actcctaagg tcaaagcttg atataatctc 240
ctctcctctg caaacaccca acaagtacaa gaaagagtta cagttttcaa gcatttgata 300
gaaaattaat tgttttgaag agaagggaaa ctttgagata atttttcgac attacagatt 360
tacatctctt tacttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacatgt c 411

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<210> 253
<211> 769
<212> DNA
<213> Brassica napus

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tgtgacaaga tcgccttcgt agttcacgct tccttcacatg cctccgggta caagctcgtt 180
gccactggaa ggccggcggt cgccgaagac gcactttctt cctctccttc ccaaggcgag 240
gttgggatcg aggggtggaa cgagttcgag gagtacgctg ttgtgtatgc gaagaaagga 300
tcgaagaaga ttctggtcaa gtgtttggcg atagatgata agcttcttgt tgatgctata 360
gctgaagggt gaaaagaaga gcctgctcat ctcgagattg aagttgggaa ctatgttgct 420
gagtcgagag aggaaggaga ctacgatgca gagtttaaga atctggggaa gttagtcact 480
gatttgacaga atcagattct gtacaagggt gctgaaggcc ttaaaccctg tcctcctagg 540

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accaggtcca	gttcggagac	aaatgaagag	cgtagagtctg	gatattacgt	tagaaggcct	600
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ggttacagcg	atctcatccc	tggcccaggt	gctggagtat	acccgtcagg	gtggtttggc	720
gatgaagctg	ctgtagacga	cgatctcctg	tcctgagtgt	gatctcact		769

<210> 254
 <211> 213
 <212> DNA
 <213> Brassica napus

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tcttttcgaa	acgggttttga	gattgagctc	tatgattttg	caatgtcaga	aatatatggt	180
tggtttctgg	ttattatgaa	acttatittag	ttt			213

<210> 255
 <211> 434
 <212> DNA
 <213> Brassica napus

<400> 255						
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aaaaagacgt	tttgacaatg	caaatagtga	agtgtcaaac	acgaccaaag	agaggggttaa	180
actgttaaag	ccaagtattt	gcatcgtcct	tcaaaaaactt	tcaagacgtg	ggagagggac	240
aacttgggaa	caataagaag	atgcatataa	ttaatctctc	tcccagaaag	aagagattaa	300
caaaagaggc	aatagatgta	tgtacatggg	attttagctc	cacggtatgt	aataactccg	360
ggaatgttat	gaactcataa	gaagtaacct	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	420
tactctgcgt	tgat					434

<210> 256
 <211> 630
 <212> DNA
 <213> Brassica napus

<400> 256						
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tatctttttt	tttgtctttt	ttttttttgt	tgattgggtt	tgtgtagatt	gattcgaggc	120
aattcgagaa	agtgatgagg	tacataagg	cagggtgtga	aagcaatgct	actcttgaat	180
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gcaccgtttg	ggttaactgt	ttcgacgtct	ttgacgcagc	cattcccttt	ggtggttaca	480
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ttgcataaat	gttcaaaaata	aaattaacaa				630

<210> 257
 <211> 614
 <212> DNA
 <213> Brassica napus

<400> 257						
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gaagatcaac	ttgttgaaat	ccaactatga	acaactcttt	gagggtgttg	ccaagaagaa	420
gagcgtggca	gatgaagccg	ggatgggtctt	gcagggtaaa	gttcgacagt	tgcaagctgc	480
aaccacgtcg	tgaaaattca	ttcatctctt	cgtggctttt	actttttttg	acgtttttgtg	540
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atatgttttg	tggt					614

<210> 258
 <211> 521
 <212> DNA
 <213> Brassica napus

<400> 258						
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aaatggtgac	ggccaagaaa	acgaagaagt	cacacgaggg	catcaacagt	aggttggtctc	120
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gtgattctga	catcatcaag	agcattcctg	gtgaccagtg	ataccatttt	cgattttgtt	420
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<210> 259
 <211> 586
 <212> DNA
 <213> Brassica napus

<400> 259						
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cggtaaagcc	gccgccgccg	ccgccgcttc	gaaatccgcc	gccacttcct	caaacggagt	180
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cctctgctct	catccacagt	ccagagatat	tcgtattgaa	tctttgtctg	ttacgtttca	300
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cctcgggctg	aacggatgtg	ggaagtctac	tcttttaact	tcgattggac	tcaggggagt	420
cccgattcct	gatcacatgg	atatctacca	tctctccac	gagattgagg	ccactgacat	480
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tgagactcct	gttgaacagg	atgatggagg	cgagagagagg	cttgac		586

<210> 260
 <211> 470
 <212> DNA
 <213> Brassica napus

<400> 260						
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aagccactac	tcgagtatca	ggcgtgtgtc	aagagaatcc	aaggcgatga	ctctggccac	180
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ttaagggatg	tataaaaacg	agttgatgtt	ggaacatttt	tgtaactgc	aaacctgatt	360
atgccaaatt	gctttgctgc	tcgggtttgt	ttctatcgct	tttatgtttt	ttttttccta	420
cagacattgt	tattgtcctt	cttttgaagt	aataaaatgt	ctaataacag		470

<210> 261
 <211> 519
 <212> DNA
 <213> Brassica napus

<400> 261						
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atcaaaaactc	tgttggaata	aaggaagaga	ttgagaaatc	aaaggattat	gcaatggaga	240
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acatgttaag	caaccgaagc	tagatgtaga	tgcggaaggg	gatgcatgct	ctatagaaag	360
aaagaaaaaac	ttctcaaga	gccaattcga	ggcagagggt	gccaaagtct	cgaatccgta	420
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tttaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaacatgtc			519

<210> 262
 <211> 690
 <212> DNA
 <213> Brassica napus

<400> 262						
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gttggtttgct	ggataccaac	tgccctcatcc	tctcaagtac	aagatcatag	tcaggattca	300
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ggagcttgac	tttctcaaga	gccaattcga	ggcagagggt	gccaaagtct	cgaatccgta	420
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690

<210> 263
 <211> 517
 <212> DNA
 <213> Brassica napus

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 ccgagaacgt ttgagatcag gatgtccgtc gaggaagacg ccaccgtag ggagccactc 120
 gatctgattc gattaagtat cgaagagaga atctacgtca agctccgatc cgaccgtgaa 180
 ctccgcggca tatgtctcaa gcacaatttt tattgacgag atcgactctc tttgcaattc 240
 gaggttatca cgactgtaga aatcgacgac gagacatacg aagagatcgt tcgtacttcg 300
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 aaacatttta actgaatgta gctgagatat tgttatt 517

<210> 264
 <211> 813
 <212> DNA
 <213> Brassica napus

<400> 264
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 tgaaccaac cactttttct cagtattagt ctc 813

<210> 265
 <211> 417
 <212> DNA
 <213> Brassica napus

<400> 265
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 gatttactct gatgatgttg aagtttcaat gatataatct ttgtttcatt acctcaaaaa 360
 ccaagtttgc tgggttaataa agtattttata aaatgctcga tcacatgggtg tttgaat 417

<210> 266
 <211> 363
 <212> DNA
 <213> Brassica napus

<400> 266
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 aaa 363

<210> 267
 <211> 481
 <212> DNA
 <213> Brassica napus

<400> 267
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a						481

<210> 268
 <211> 590
 <212> DNA
 <213> Brassica napus

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tgctaagctg	cctttcattg	atgaaaaacg	ccttctggaa	gctgtttccg	aagtgggaatt	240
cactttaacg	gatgaagaga	agcgtagaaa	cagcatgatg	tgtgacatgc	tattcatcgc	300
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gggtaaggag	gacatcttgg	acaaccaagt	catttgttgc	atttacagac	ttccggatgc	540
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<210> 269
 <211> 453
 <212> DNA
 <213> Brassica napus

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<210> 270
 <211> 606
 <212> DNA
 <213> Brassica napus

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ctgggtcagt	atatagagag	aactgcaaat	cctttgatat	tagatagtct	ttttcagcat	540
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tgaatt						606

<210> 271
 <211> 520
 <212> DNA
 <213> Brassica napus

<400> 271						
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ctacagtcta	cagtgttctc	aggccgtggg	cttgatggat	gctctgggtg	ctttcagatg	420
gaagttgctg	tacataatgt	agcaatggac	ttgatatttt	tcactctaca	tacatgtaaa	480
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<210> 272
 <211> 716
 <212> DNA
 <213> Brassica napus

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 aacccataga gtaagaaggt gtaggcaagt taatgacagt ggtcttcact ttggatcatca 180
 aactgatgct atttgtcaca ccttgtgatc ctattccact gtccttaagc ccctggaaaag 240
 ggaagtgggtc cgggtccacgc gctgggtgcag agttgatctg aaccgttcct gtctccattg 300
 catcactgat cagcattgcc ttgttgatgt cctttgtgaa tacacatccc tggaggccaa 360
 agttactagc attgcaatga ttaatgcctt ctcaacaga attgatcctc aagacgggta 420
 agacaggacc aaacggttcc tcccaagcaa tcctcatgtc cggtttgaca ttgtccaaaa 480
 gcaacggcca aatcaagtta ccttgtcttt tatactcttg gcagaacgtt gctcctttat 540
 ccttagcatc catcaccaat gaaattagct gatgattcag acaccaccgc tgtaatatca 600
 cagttctcct cgggtgggtcc caccgtgagt ttagccactt tagctttcac tttctcaaca 660
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<210> 273
 <211> 657
 <212> DNA
 <213> Brassica napus

<400> 273
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 acgttacgtc cacgcgcac cttctctcac cctgcgcata ttagccgttc ctcacgccgc 180
 gtctttcctt ccctgtactc ctcccacaca cctctaaggt ttcggattca gacatgtaac 240
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 ttttacgctg atagttcgtg gggaaacgac gcgactacaa gcattctcat tgcagcagcc 540
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 <212> DNA
 <213> Brassica napus

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<210> 275
 <211> 864
 <212> DNA
 <213> Brassica napus

<400> 275
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 aatattgctc tgtttgga gttctaaagc gtcagtgggt gttcgtcgat tcagctgact 240
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 aagatatggg aagacaagaa gttcatgggt ggtttgacct cttcaaagtg aaactcttc 780
 aagccacatt atctccactc atggagtttc aagctgagac atccctcggg gaggattcac 840
 tcgcagccgc ttgatccaaa cgca 864

<210> 276
 <211> 746
 <212> DNA
 <213> Brassica napus

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<400> 276
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aatagcaaag ctaaaaaatt agctga 746

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<210> 277
<211> 679
<212> DNA
<213> Brassica napus

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acaggcaatc tattggttgt ctttgaggaa tggggaggag atccaaacgg aatctcactg 180
gtcagaagag aagtggacac tgtctgtgca gatatctatg agtggcaatc aacgcttggtg 240
aactatcagt tgcattgctt tggaaggatt aataaaccac tgcattccaa agtgcattta 300
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<210> 278
<211> 187
<212> DNA
<213> Brassica napus

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cggtgcttac ccagtgaggag aaaatagcaa ttctgttaat gacattactc tctactgatg 180
tcatgag 187

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<210> 279
<211> 506
<212> DNA
<213> Brassica napus

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cggggataaa tgattgatga tgaatctttt ttgtttggga atcttttttt tttttttttg 420
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aaaaaaaaa aaaaaaaaaa aaaaaa 506

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<210> 280
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<213> Brassica napus

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<222> (15)..(15)
<223> n is a, c, g, or t

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<220>
<221> misc_feature

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<222> (17)..(20)

<223> n is a, c, g, or t

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tgatggggtatc	tcttgtccgt	gaatgggttg	ggtttcagca	atttcaaaat	tgattgaatt	180
cttcgccaaa	ttgaagcaaa	aggacatgaa	ctcattgaca	gttggtgtta	tgggaaaagg	240
cggtgtagga	aaatcatcca	ccgtcaactc	tcttattggt	gaaca		285

<210> 281

<211> 704

<212> DNA

<213> Brassica napus

<400> 281

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tcttctctct	cctccgccac	aaacggcgga	tcatctttcc	agatcgaaga	cattctgtcg	180
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gtggatcaga	agttgtcaga	tcggaaaaca	gtagagtggg	aaaccgagat	cggacaagtt	600
tctgttcgct	atatgcctct	cgggacaaat	gagcaaccac	ttgatttgcc	tagagatgca	660
catgttcttt	cgccgcggtg	ctggatcggt	ttctttgtga	tccc		704

<210> 282

<211> 329

<212> DNA

<213> Brassica napus

<400> 282

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ttcatatttct	tagttatcat	gtggatttgt	tgtgtagcat	aattcactgt	agtgttcttt	240
aagactctgg	tgtgctttgt	agtatttatg	agattatatt	attgttagta	tacaaaaaaa	300
aaaaaaaaaaa	aaaaaaaaaaa	aaacatgtc				329

<210> 283

<211> 705

<212> DNA

<213> Brassica napus

<400> 283

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atttttggat	ggaccggctg	ctacacaagt	tttgagctg	cggtttggac	atagctgcaa	180
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atagactcgg	gaggtgatta	cttagcgcat	acttcttcca	tgggttggtg	cttctaggta	600
agcaacaaga	aaaagagtaa	tttctgagga	agcaaaagcc	acaaccaagt	tctttatatt	660
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<210> 284

<211> 570

<212> DNA

<213> Brassica napus

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agaccgtcaa	aagctttcaa	caggctgcaa	aagagtttga	gtctgagctt	aagacggagc	360
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<210> 285
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 <212> DNA
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 <211> 753
 <212> DNA
 <213> Brassica napus

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<210> 287
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 <212> DNA
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 <213> Brassica napus

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<212> DNA
<213> Brassica napus

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<211> 622
<212> DNA
<213> Brassica napus

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<211> 667
<212> DNA
<213> Brassica napus

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<212> DNA
<213> Brassica napus

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 <213> Brassica napus

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 <212> DNA
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 <211> 763
 <212> DNA
 <213> Brassica napus

<400> 307

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 <212> DNA
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 <212> DNA
 <213> Brassica napus

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a						121

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 <211> 401
 <212> DNA
 <213> Brassica napus

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<211> 340
<212> DNA
<213> Brassica napus

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<210> 313
<211> 730
<212> DNA
<213> Brassica napus

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<210> 314
<211> 582
<212> DNA
<213> Brassica napus

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<210> 315
<211> 731
<212> DNA
<213> Brassica napus

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<223> n is a, c, g, or t

<220>
<221> misc_feature
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<223> n is a, c, g, or t

<220>
<221> misc_feature
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<223> n is a, c, g, or t

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 <211> 489
 <212> DNA
 <213> Brassica napus

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<210> 318
 <211> 731
 <212> DNA
 <213> Brassica napus

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 <212> DNA
 <213> Brassica napus

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 <223> n is a, c, g, or t

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<210> 320
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 <212> DNA
 <213> Brassica napus

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<210> 321
 <211> 721
 <212> DNA
 <213> Brassica napus

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<210> 323
 <211> 648
 <212> DNA
 <213> Brassica napus

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<210> 324
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<212> DNA
<213> Brassica napus

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ctgcaatggt accaacaat gagagttttg ggcgcttacc caccttgaat catctcactt 180
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tctttcctta aacccttttc tctcattcct ctctcaacc tatcaacact cgtccatttc 480
tgttcctcag catacatatt cgagagcaaa acctgatatc ctgaaaagtt cttcccttta 540
tccactttag ctaacttctc tgaaacagtt tcagcaagct caatctcacc gtgtactcta 600
caagctccca ggaccgaacc ccatagctca gcaatgtttc cttcttcacc aagcccttta 660
acaaactcgt aggccttcac aacgcggcct actctcccta acatgtctgt aacgcagcaa 720
tagtgctcc 729

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<210> 325
<211> 832
<212> DNA
<213> Brassica napus

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<400> 325
caaacatgga cagatctatc tttctttctc tagcactagc ctcactcttg gtcggagtcg 60
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gccaaacccg tcttgttact tcggggctat cgaccaacct gaaacggtag tgcgaaagct 180
ggaggttcaa cgtggaagta cacaacatca gaaacttcga cgtggtgcct caggagtgcg 240
tgtctcacgt ccagaattac atgacgtcat ctacgtacga ggatgacgtt gagagagccg 300
tcgatgaggt catccttcat ttcgggagca tgtgtttag caagagtaag tgcgatggca 360
tggaacgctt gatctttgat attgatgaca cgcttctctc taccattcct taccacaaga 420
gcaacggctt cttcggagga gagaaattga actctactaa attcgaggat tgggtaagga 480
agaggaagag accaccagtg ccacacatgg ttaatttgta ccatgagatc agagaaagag 540
gaatcaaagt cttcttgatc tcttctcgga aagaatatct cagatctgcc accgttgaca 600
acctgatcca agccggttac tatggctggt ccaacctcat cctcaggggg ctagaagatg 660
aacaacaaaga agtcaaacaa tacaagttag agaagaggac atggctaaca agtcttggtt 720
acagagtttg gggagtgatg gcagaccaat ggagcagctt tgcaggttgt cctcttccca 780
agagaacctt caagctccct aactccatct actatgtcgc ctaatcaaaa ca 832

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<210> 326
<211> 724
<212> DNA
<213> Brassica napus

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<400> 326
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gcagacttct cagcgaaact ctgggatgag ttaacagggg atgtgcttca ttcttttgag 180
cacaagcata tcgttcgagc atgtgctttc tcagaggata caaaacgggt gtcacagga 240
gggtttgaga agattctccg tgttttgac ctgaaccggt tggatgcacc tctacaggaa 300
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atgcagacat tagagactaa gtctcctgtc accagtgtcg aagttagcca agatgggcca 480
tacattacta ctgctgatgg gtcaaccggt aagttctggg acgctaacca ttttgactg 540
gtgaagagtt atgagatgcc atgcaacatt gagtctgcgt cgttgagacc aaaatctggt 600
gagaagtttg ttgctggtgg tgaggatatg tgggtccgtg tgtttgattt ctacactggc 660
gaggagattg ggtgcaacaa gggacatcat ggtccagtag actgcgtgag gttttacca 720
acgg 724

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<210> 327
 <211> 703
 <212> DNA
 <213> Brassica napus

<220>
 <221> misc_feature
 <222> (577)..(577)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (613)..(613)
 <223> n is a, c, g, or t

<400> 327
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 ccaagcagag aggtctgaga atctcagagg aacgtgtgct cttggacggg tcaccagaga 180
 acccggttggg gacaataact gtccagctag gcaacgtgga gtccaaattt gcgagctcgt 240
 tgtctgagtc aggagaggtg aaagtggag agatggagtg ccgcatttga 300
 cgaaggttgg atcgtttgag gttgatgtga ctcttgaagg tagtattata ctgtgcaggc 360
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 atgtgaactt tatgagcgtt ggaagaatcg caccgaggaa gcaagctatt atggcgattg 480
 gtgtagatga tcagccgagt aaggacactc ttaagaagaa ttggggagat ccctgcggtg 540
 ggaaggagtt tgttttcctc aagggtctagt ttggggnggg gggggggttg tgaattatgg 600
 aatcctgaaa gngagaggat tcctatgaaa gggttttgga gtttggttg ggttaaggca 660
 ataatgttat cttatggcct tataacaaag ttttgataaa aaa 703

<210> 328
 <211> 825
 <212> DNA
 <213> Brassica napus

<220>
 <221> misc_feature
 <222> (9)..(10)
 <223> n is a, c, g, or t

<400> 328
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 cagttacaaa ttaaaatagt tagagtatta cacagcaaac aaaacagcga atctgttcta 180
 atcttcctca cgcgtcgatgc ttgttcggaa gaggtagtct tcgccttcaa gttcatcttg 240
 atacatgttt attggtggat ctttatgttt ttcacacctc tctttctcat caatacgtct 300
 ctttcccttt cttagtatat agaagaaaata atggaatcca tcgccaaaag tgttgacttc 360
 catggaccaa ttaaacttgg gatccataaa caaaggacgc ctgaaatgcg gctggccaaa 420
 agtaattgaa atgaaaatcc catctggttt cagaacccgg tgaactccat caagagtagc 480
 catgactttg ctaacgggtt cttgacgggg attccatgga tcaccagcat ccacgaacag 540
 tacttcctct agttctagat cgcgggaggc cgctctagag gatccaagct tacgtacgcg 600
 tgcagtcgac gtcatagtct ttctatagtg tcacctaaat tcaattcact ggccgctcgt 660
 ttacaacgct ctgactggga aaaccctgcc gttacccaac ttaatcggct tgcagcacat 720
 gcccctttcg ccagctggcg taatagagaa gagggcccca ccgatcccc ttcccaacat 780
 tgcgcaacct gaatggcaaa tggaccccc cgtaaccgcg cattc 825

<210> 329
 <211> 673
 <212> DNA
 <213> Brassica napus

<400> 329
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 aaaatgaagt acatgagggt ctttcgcaag cgtatgaaca ctaagccttc tcacggcccc 120
 attcactttc gtgctccctc caaaatcttc tggcgactg ttcgcggtat gattccacac 180
 aaaacgaagc gtggagctgc tgcgcttgca cgcataaggg ttttcgaagg tgtgcctcca 240
 ccatacgaca aggtcaagag gatggttatc cccgatgctc tcaagggtgt gaggcttcaa 300
 gctggtcaca agtactgtct gttgggtcgc ctttcttctg aagtcgggtg gaaccactac 360
 gacaccatca aggagctgga gacgaagagg aaggagagat ctcaagtggg ttacgagaga 420
 aagaaacaac ttaacaaact tagagccaag gctgagaagg ttgctgaaga gaagctcggg 480
 gcacagctcg aaattcttgc acctgttaag tattgaagag aagatcatca tcatcactag 540
 ttgtgttctc tgtcttcgca tgttttttga accgacccat tatactttat cattacttag 600
 ggtgttgtat gagattttgt cctgatatta tctttcttga gttccaagaa aaaaaaaaaa 660
 aaaaaaaaaa aaa 673

<210> 330
 <211> 546
 <212> DNA
 <213> Brassica napus

<400> 330						
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caaggccac	gaccaggtgg	aaggcgccca	ggtgatgggc	ccatgcacca	tcagcctcag	120
caaccaatgc	cttttatgca	gtcacagatg	atgccaaagag	gacgtgggta	ccgttaccca	180
cctggtagaa	acatgccaga	cggtctaata	ccaggaggaa	gggttccatt	tccttatgac	240
tctaattggg	tgcttcttgg	tcagcatttg	cccgcgggtg	cattggcttc	ttcccttgct	300
tcttcccttg	ctcaagcttc	ccctgctcag	cagagaactc	ttctgggtga	gagtctatac	360
ccattagtgg	acctgataga	gcacgagaac	gctgccaaag	tgacgggtat	gcttttggag	420
atggatcagg	ccgaagtttt	gcatctgctc	gagttcccgg	aagctctaaa	tgctaaagtt	480
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agtga						546

<210> 331
 <211> 790
 <212> DNA
 <213> Brassica napus

<400> 331						
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gaatcaaaag	ctctctagca	gacaaaacaa	caaagaatgg	aacaaacaat	catctcttca	120
agcttctgcg	actgggtact	cgaaaactac	atctctccct	gtaagtittc	tgtagacacc	180
gaccattgtc	tcaagcttgt	actcagtggt	gttcctctcc	ttaggctcca	aaaacacctt	240
catgatcttg	gtgccatcaa	cacggtatct	agtacgcttt	ccaacaatct	cagcagggtg	300
agcgacatcc	tcaagcatgg	cttcatggac	ggagggtgaga	gtcctgttgc	gtggtctctg	360
aacagctgag	cccttcttag	ggggacgcat	gattctcctg	gtggcaacaa	agataacatc	420
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gtccttgtgg	atcttgttct	gagcagagaa	catcttggtg	gattcagaga	aacacgacga	720
agaaccctag	aagggtggtg	aaagggtttac	tgcttggtga	agcaatatca	tatacttgtg	780
agtggttcag						790

<210> 332
 <211> 588
 <212> DNA
 <213> Brassica napus

<220>
 <221> misc_feature
 <222> (16)..(18)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (504)..(504)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (506)..(508)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (544)..(546)
 <223> n is a, c, g, or t

<400> 332						
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caaggattga	tttgaccagt	gactgcttaa	gaggtagcta	cgctaagatg	aatagctcca	180
cgaaacttgc	tcctcctaaa	cagagacgtc	aagggtgctg	tggtggtaag	atgaagaaac	240
agagacgtct	tgatgtcaag	gagaagtcag	tttcttcttc	ttcttcgtcg	gaagacagtg	300
ccggccatat	ctcgaaactt	gtcctcctg	gtaaagttag	acctactttt	aaagactttg	360
ccgggattaa	aaaagtgttg	gatgagttgg	atcagtatat	tctgtcccct	attctcaatc	420
ctccattgtt	tggaagatt	ggagcgaagc	caccaagcgg	gattctattc	catggaccac	480
ctggctgtgg	aaagactcgc	ttgncnnntg	ccgtcgccaa	cgaagctggg	gttccctttt	540
atcnnntttc	agccacagaa	attgtttctg	gtgtttctgg	tgcgtctg		588

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<210> 333
 <211> 648
 <212> DNA
 <213> Brassica napus

<400> 333
 gattccctct gcacaaagtg aaatctaggg ttccagataa agattcctta agagatctcc 60
 gatcaagatg agttacggac aagataggct caggggact gtcaagtggg ttgacacca 120
 gaagggtttc ggtttcatca ctcccgacaa tgggtggcgac gatctattcg ttcaccagtc 180
 ctccatcaga tctgagggat tccgaagcct cgctgcggag gaacctgtcg agttccaggt 240
 cgagaacgac aacaacggcc gtcccaaggc gatagagggt tctggacccg acggcgctcc 300
 tgttcaagggt agcagcggcg gtggcccgtc tggcggacgc ggtggattcg gcggtggtgg 360
 aagaggtgga ggtggagggtc gtgggtttgg cggcgggaaga ggtggtggtg gtcgaggagg 420
 aagcgactgt tacaagtgtg gtgagccagg tcacattgctg agagactgtt ctgaagggtg 480
 tggaggatag ggaggaggga gaggtggata cggcgggtgg ggaggtggcg gaggaggaag 540
 ctgctatagc tgtggcgagt ctgggcattt cgccagggat tgcactagcg gtggacgtta 600
 atcagatgga gaagtattct cgcagcttat tatctattta ttgttcgc 648

<210> 334
 <211> 818
 <212> DNA
 <213> Brassica napus

<400> 334
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 tgtccaacgg ttgaagagat tctcttctct ctatgaaaaa acaagtttag ggtccagctg 120
 ttttaagttc ttgaaacatg taatgaaaaa aataatgtgt tcgaaacaga caaatcttgg 180
 gaactgaaga ttgttcacat ttcaagcttg tcttggtttt cgggttcttg aagtttcatt 240
 gatggcaaaa accacaaagc catttatgtg aaatgtgggt gtcctgttta gattgttatc 300
 attagattta gatctaatat gtataagctc agtccaagtg ttccttcttt tccttacatg 360
 accagatata taacttttgt ggtccttaag ctccactttt atgtggctct tctcaaaatc 420
 ttttagaaaag aaaatctttc atacaacttt tgctatgttt caacgttttt tgtcttttga 480
 taagtctgga atctcaagta ctgggggtctc ttgagtttc ttatgtcttt attccaacaa 540
 aagaaaatat caaatctttg tttatagatt ctgtttctac cgtaccatta ctgattaatg 600
 aagggttatga tgttcttaat ctgtagtact tggatgagaa caagtctttg attctgaaga 660
 tagttgagtc tcaaaactca ggaaagctca gcgagtgtgc cgagtaagat taaacatac 720
 tccttgattt tcaattgtgt ttaaaatatg atcataaggt taaatatttt gttacaggaa 780
 tcaggcaagg cttcaacgca acctcatgta cttggctg 818

<210> 335
 <211> 642
 <212> DNA
 <213> Brassica napus

<400> 335
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 cagctggtct gggagatcgt aaagagaaac aactgtttct tggtaaaca gttcggcaga 120
 ggcaatgcta aggttcagtt cagcaaggag accaacaatc tctgcaacct caactcctac 180
 aagcactctg gtttggccaa caagaagaca gtgaccattc aggtagctga caaggagcaa 240
 tgcgtggtac tcggaacaac caagaccaag aagcaaaaca agcctaagct ctctgttaac 300
 aagtctgtcc tcaagaagga gttccctagg atggccaaag ctgttgccaa ccagggtgtg 360
 gacaactact acaggcctga cttgaagaag gcagcacttg ctaggctaag cgtgatcagc 420
 aagggccttg gagtcgccaa gtctggtccc aagaggagga acaggcaggc ttgaattgaa 480
 gaatccgcca ttggatgaac atttctactt ctgaaaagct tgttttgaaa gtttcagaca 540
 cttctttgta ggttaaagtt ttttttatgg acggatgagt gttttgcttg aaacacctac 600
 attgttatcc ttttctcaca aaatgataat aaaaactatt tt 642

<210> 336
 <211> 123
 <212> DNA
 <213> Brassica napus

<400> 336
 atgtcttatc tctgaacttg aacttagttt ctagtgggtc gcagtacttt tgttttgtca 60
 aggtacaatg atgttttgat gatttcaagg aaccaatgct ttaactctat tgtcagaatt 120
 gcg 123

<210> 337
 <211> 411
 <212> DNA
 <213> Brassica napus

<400> 337

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gacagagtta	gctcttgagt	tcgcttaccg	gtactctcag	aggtataaga	tggttttgtg	180
ggtaggaggg	gaagctagat	acttcagaca	gaacctcttg	aacctgtcgt	ttagcttggg	240
ggttgatgtg	agcgctgatg	ctgagaagga	tagaggtagg	ctaaggagct	ttgacgagca	300
ggagtttgaa	gctttcaaga	ggataaagag	agagcttttc	agagacatgc	cttatctgct	360
catcattgat	aatcttgaga	tagagaaaga	ctggtgggaa	gggaaagatc	t	411

<210> 338
 <211> 506
 <212> DNA
 <213> Brassica napus

<400> 338						
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aagattcaac	aatgggttctg	ccctttgtaa	agaagtcacc	gtgttggaag	gttcttgaat	180
caatggagat	cttcaaagct	atgccacagc	gtccacattt	caatccactg	ctggagtgcg	240
aggaagagtc	acgtgaagga	gacgccattg	gtgcaatggt	gaagtccact	ggactgttag	300
agaaagtcaa	taatattcaa	ggggacgatt	cagtgactga	gataaacagg	atcaaagagt	360
gttttctcaa	gctagaggaa	cacgggttcg	acgttaccgc	accttgttct	cgggatagac	420
aagctgctct	ccgttttaag	aaagccagac	gtgggcgttt	ggaagagttt	aaaagttgct	480
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<210> 339
 <211> 770
 <212> DNA
 <213> Brassica napus

<220>
 <221> misc_feature
 <222> (623)..(623)
 <223> n is a, c, g, or t

<400> 339						
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gctactcagt	ctaagttgat	cgagatccct	aacaagttca	aagaagagga	tgtgagctcg	180
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ttcaggattc	acctattcct	gtcattcttg	ttgagaacag	cggacgatgt	cataagaatg	720
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<210> 340
 <211> 688
 <212> DNA
 <213> Brassica napus

<400> 340						
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agtgagaggg	aggaagagga	acgacaaaaa	gcgaagaata	aaaagaagaa	aaagaagatg	240
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atcagggata	aggtacggaa	gatagagtac	agaaaccgcg	agcagtttag	acacgatgtg	600
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ccitttggcag	atcagtggct	ggagattt				688

<210> 341
 <211> 500
 <212> DNA
 <213> Brassica napus

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<400> 341
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aagacagaga aaagtctgcg ccgagaacca gaaccgcccg ctcaagcagc ccggtgtcac 180
caccagcaat ggtgggtcgt ggtcttagaa gtcctgtgtc tggttcaggt acaagggaga 240
caaggctagc acagcagcaa agatggccaa accaaggcac tcatccaaac aacagcggtg 300
cggctgggtga ttcagtggga tgggctaadc cggtagaagag gttaaggaca gattctggta 360
aaagaaggcc gagccattta tagacagatt aagcctcctt tatctttagt gcttagaggt 420
gtgatatgta atgtggcaat tgaaagcaat gtagactcgc ttgtaaacaataataattc 480
tctagatctc ctttcctggt 500

<210> 342
<211> 733
<212> DNA
<213> Brassica napus

<400> 342
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gaagtgaaac agatttctacc tcaaggaaact ttccgaaagc acaagagatc agacagcaac 180
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tcgaactcac agagagctcg aagtcagctt ttcgagacgc atcttgcaaa gctgttcaag 300
caaaaagtag aaatattcac caagggttgaa tttaccaggg aatcagttgt aacgacaaca 360
gtgaagctgt gtctgaagag tttgcaagaa tatgtgcggc tccaaacgtt taacaggagc 420
gggttccagc agattcagct agacattcag ttcttaaaag ctcttttgaa agaaacagtc 480
gaggacgaag ctgctatiga cttcttgctc gacgaggtga tcgttgccggc ttcagagagg 540
tgtcttgatg tgactccatt ggaaccacca atcttgaca aactcataca agccaagctc 600
gctaaatcta aggaacacaa caacaacaac ccgtttcctc ttgaaattaa 660
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ctgctcagag cta 733

<210> 343
<211> 310
<212> DNA
<213> Brassica napus

<400> 343
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gtttgttatg gagttgagaa acttgctctg ttttttcgtt ttgttttaga atatgaggca 180
taatctactt tgatctccat attatgactt gaaaaaatca aatatgggtt aggtttttaa 240
cattcaactt tgtagatcc atgtggctca attaaaggtc gaatcagtaa atccgtggag 300
tttttcagcc 310

<210> 344
<211> 713
<212> DNA
<213> Brassica napus

<400> 344
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ccgagagacg ggaagcacat cgaggtcctg ggttacttca atcccttgcc aggccaggac 180
ggtggtaaga gaatgggtct caagtccgat cgaatcaagt actggttatc tgttgggtgct 240
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tttgggtgtg aaaacggcaa ggcgtgttga ggtcttgagg gagattcagg ttataagttt 660
gacgtttatg atgtgcttat taacactacc tatatgagct attctttaat ccc 713

<210> 345
<211> 493
<212> DNA
<213> Brassica napus

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cgcaccctgc ttcgagcggg gcgtcagtag cctgactaca acatcaggga gtacgctaag 180
cgaaggacct tggatgggtt ccgcatgaac aagaatctca ccgaccattc aaaggtggag 240
gaggcttatg ttgaaggtaa gaagcagctg gaggttgtgg agagggtggt caagggtttac 300

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ctggcgatc	ctcccaagac	caagaacatc	atgggactca	agcttcagta	gtggatatgt	360
atgtttgggc	ttttttcaat	acccttaaaa	agctatttgt	tattgtcatt	ggatcatgtt	420
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<210> 346
 <211> 817
 <212> DNA
 <213> Brassica napus

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gcgcgaggtc	gaagccatca	aggactgctg	cgaggagatc	aacgatacca	tcgaacgttt	180
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aaagtactaa	ttaaaattta	gtacttaaga	aatgttttat	tttatgtatc	tcaaatatat	480
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ttattttctt	atgttatgtg	ttcaagtgtg	ttttgagcta	taaaagtgtg	agaagatgtg	600
ctttttattg	ccgtaaaaaa	aaaaaaaaaa	aactcgagtt	tttttttttt	ttttttgaga	660
ttaatctttt	agcttttttc	atttttagtaa	caggaaaacg	cagcgtaagg	gacaattatt	720
acacttttag	ataacataat	cagaccattc	ggtcaaatac	gatgtctggt	ccatgggtcaa	780
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<210> 347
 <211> 534
 <212> DNA
 <213> Brassica napus

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cggctcgggt	aagcaacgac	gatgttctct	gcacacgtgt	catcaccatg	tactccatgt	360
gcggctctcc	tgatgttctt	cggctgtgtg	ttgatgtctt	gcggaagaag	aatctcttcc	420
agtggaacgc	tgtcatcagc	tcttacttca	gaaacgagct	tttaccacaa	cttttctaga	480
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<210> 348
 <211> 577
 <212> DNA
 <213> Brassica napus

<400> 348						60
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cggatgggtt	atttgatctt	ggtttgcaag	aaatggattt	ttcaggtaac	ggtttaaccg	360
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<210> 349
 <211> 813
 <212> DNA
 <213> Brassica napus

<220>
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 <222> (716)..(716)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (760)..(760)
 <223> n is a, c, g, or t

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<210> 350
 <211> 638
 <212> DNA
 <213> Brassica napus

<400> 350
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 tgatttcgtg gacaagaagt ttagtgatgc ccagttcaag gtatggggaa agaaagggtga 180
 ggaacaagca gcaggggtga aggagttat tgaggcagtg aagattcttg aagctgagct 240
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 ccctgaccaa gagaaaattg ttgctgacgc cgctgagttt aggaagaata atctctgatc 480
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 gtatggaccc taagtaatgc attttaaaat aaaatcta 638

<210> 351
 <211> 637
 <212> DNA
 <213> Brassica napus

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 gacgaggctg cttcacttgc ctaagtctta tcccattcac tgcaacatgg ttccaccaag 180
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<210> 352
 <211> 846
 <212> DNA
 <213> Brassica napus

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 gattttacag aaactcaaaa gataaaaaaa aaaaaaaaca caagggaagg ggattacaaa 180
 cacatacaac acataaaacta aagagagatt attcaagaaa gcttttggtt cttataataa 240
 ctaaagatca aattaattaa ctaattaaac attcatcctc attgggggtg gttttgtttt 300
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 cctgagttca cccactcgtg gactaaacac ttgagacaaa ctcttattat tgagcggagt 480
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 aacgaa 846

<210> 353
 <211> 461
 <212> DNA
 <213> Brassica napus

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 ctttcatgtc cctctctcta tctctctttc tattgttcgg taaaatttct catatttggt 420
 atgtaatcat atgtttgatc aaaatattat aatcttcaac t 461