

SEQUENCE LISTING

<110> INTEGRAGEN

<120> Human diabetes susceptibility IGLC gene

<130> B0536

<160> 33

<170> PatentIn version 3.3

<210> 1

<211> 820

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (26)..(733)

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Leu	Leu	Ala	Tyr	Gly	Ser	Gly	Val	Asp	Ser	Gln	Thr	Val	Val	Thr	Gln	
10				15				20						25		

gag	cca	tcg	ttc	tca	atg	tcc	cct	gga	ggg	aca	gtc	aca	ctc	act	tgt	148
Glu	Pro	Ser	Phe	Ser	Met	Ser	Pro	Gly	Gly	Thr	Val	Thr	Leu	Thr	Cys	
			30					35						40		

ggc	ttg	agc	tct	ggc	tca	ggc	tct	act	agt	tac	tcc	ccc	agc	tgg	tac	196
Gly	Leu	Ser	Ser	Gly	Ser	Gly	Ser	Thr	Ser	Tyr	Ser	Pro	Ser	Trp	Tyr	
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cag	cag	acc	cca	ggc	cag	gct	cca	cgc	acg	ctc	atg	tac	aac	aca	aac	244
Gln	Gln	Thr	Pro	Gly	Gln	Ala	Pro	Arg	Thr	Leu	Met	Tyr	Asn	Thr	Asn	
		60					65					70				

act	cgc	tct	tct	ggg	gtc	cct	gat	cgc	ttc	tct	ggc	tcc	atc	ctt	ggg	292
Thr	Arg	Ser	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Ile	Leu	Gly	
	75					80					85					

aac	aaa	tct	gcc	ctc	act	atc	acg	ggg	gcc	cag	gca	gag	gat	gaa	tct	340
Asn	Lys	Ser	Ala	Leu	Thr	Ile	Thr	Gly	Ala	Gln	Ala	Glu	Asp	Glu	Ser	
90				95					100					105		

gat	tac	tac	tgt	gtg	ctc	tac	atg	ggg	aga	ggc	att	gta	ata	ttc	ggc	388
Asp	Tyr	Tyr	Cys	Val	Leu	Tyr	Met	Gly	Arg	Gly	Ile	Val	Ile	Phe	Gly	
			110					115						120		

gga	ggg	acc	aag	ctg	acc	gtc	cta	ggg	cag	ccc	aag	gct	gcc	ccc	tcg	436
Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly	Gln	Pro	Lys	Ala	Ala	Pro	Ser	
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gtc	act	ctg	ttc	ccg	ccc	tcc	tct	gag	gag	ctt	caa	gcc	aac	aag	gcc	484
Val	Thr	Leu	Phe	Pro	Pro	Ser	Ser	Glu	Glu	Leu	Gln	Ala	Asn	Lys	Ala	

140	145	150	
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Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly Ala Val Thr Val			
155	160	165	
gcc tgg aag gca gat agc agc ccc gtc aag gcg gga gtg gag acc acc			580
Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala Gly Val Glu Thr Thr			
170	175	180	185
aca ccc tcc aaa caa agc aac aac aag tac gcg gcc agc agc tat ctg			628
Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu			
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agc ctg acg cct gag cag tgg aag tcc cac aga agc tac agc tgc cag			676
Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg Ser Tyr Ser Cys Gln			
	205	210	215
gtc acg cat gaa ggg agc acc gtg gag aag aca gtg gcc cct aca gaa			724
Val Thr His Glu Gly Ser Thr Val Glu Lys Thr Val Ala Pro Thr Glu			
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tgt tca tag gttctcaacc ctcaccccc accacgggag actagagctg			773
Cys Ser			
235			
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Ser Thr Ser Tyr Ser Pro Ser Trp Tyr Gln Gln Thr Pro Gly Gln Ala	
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Pro Arg Thr Leu Met Tyr Asn Thr Asn Thr Arg Ser Ser Gly Val Pro	
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Asp Arg Phe Ser Gly Ser Ile Leu Gly Asn Lys Ser Ala Leu Thr Ile	
85	95
Thr Gly Ala Gln Ala Glu Asp Glu Ser Asp Tyr Tyr Cys Val Leu Tyr	

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Met Gly Arg Gly Ile Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val		
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Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser		
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Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser		
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Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser		
165	170	175
Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn		
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accatggcct tgaccccact cctcctcctc attgtcctcc ttactgcac agtccaggac	300
rgcacaaagc atcctgatcc cccagctcac tgacaccacc tcccaactca tgccagaact	360
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gcttgggcag gggaagagga gcacatttgc atgaaaggcc catctctctc ctctaaggct 180
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ccacctccca ggttcaagcg atttcctgc ctcagcctcc cgagtagctg ggactacagg 180

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<223> SNP163=C/T

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acggggactg ggggaccctg acatgaggga ggaggaaagg agatgggaag aatgggtgac 180
cagagggacc actagaccac ygagggtgag agcttgctaa tatcagagcc atgtgtagga 240
gaatgaagtg caatcttgga tagacctcca gtgcaggtgg tccagccatc aatgaccata 300
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cagccttgag caaaatggca agacctgtc tccacaaaaa gtaaaaaaaa ttagctgggt 600
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 gagactggag agaggcccat ttcacaaaaa ccaaagtct tcctgatgat ggtaaccgc 180
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catgaggggg cagagagtca gcgggagggg agacagctga gctcatctga aggggtattta 240
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agtgtccatc catctgtgcc tgcccagtca ggcctccatg ctgccccctg taatggccac 540
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gtaacgtgca tcacagagtc tggacaagac aaagtagttc tgctgggaca catcctggtg 720
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gttatgcaag gaatgaaaaa atgaagcatc aaataaaata ctgatagcaa acagtcattt    180
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catgtaaaat cctgttgaca cgtgagaata tgcctaagta ccgctagata gcttattttg    720
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<223> SNP157=C/G

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atgcttaata ttttttgaat tattgtatct ttagtcattg cgagccatca ttttgagagt    180
cagtctcatt cttttagccc tagattattt ttattttctt gagatacgtg aataaagggc    240
acaggaaaaa aacacagttg agagttttgg ataatagtaa cctaattcac ccagatttta    300
sttcatattg gttggaactc taagttgggt gcaactaaca tgagacttgt tttgatttat    360
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tgtaaacata ttcttgaatg actaatgaac agtgcttcat gtgaacaaat tttcaccttc 420
tgataatttc caatattaca ctttgaaaaa cattcccatt gtagtgctct agaaaatata 480
atttcaattg ttaaaattca atattactgt aattgaggat attaaataac ttgttggttac 540
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gctgtgctgt gtgccaaacta aactcaatgc cattttgggt ctttacttca atgacaattc      300
caaaatcacc ttgaaaaaaa tacagaaata tgggttgtaag agcttggtga tattgctaac      360
ttgaaaccag atgctgggga cacacattct gccttggatt ycttggtcat agctgcctta      420
aaaaacatac agaagcacag tggaggtgga gggataagac tttgaaacca tctcatgctg      480
atgccttact gcccgagaaa aattttaacg gaccttgcta ataatttgct cacttggtaa      540
gtaacatgag tagttgttgg tctgtactaa gctgagtttg gttgtctggt aactacagaa      600
acttaaacctt aaaaggtacc cccaagccc accaaattta attttagcta tagttcaagc      660
tatttggtgtt attagtgagt aaatagggaa aataatctca atggagttaa atgtattctt      720
gggtaaagta tcagctgggtt tattagtgtc tatcaaaggt acattttaca gatagtgaaa      780
gttggggaag taggaataac t                                     801
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<210> 15

<211> 801

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (401)..(401)

<223> SNP160=G/T

<400> 15

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aaagaaataa tgcctcagct gtaaactctg cagagaggac ccactcattc tactccctta      120
ggatcatgagt tgaaagatcc atttgcaatg gtcaggatgt ccttcagaa gagctgggtc      180
tgttctgagg ggccacccga cttgggatcg gagcccagca gggggtgctg ttggactgtt      240
cctgagaggg cagggctctg ggccaggcca cataggaaaa tactggttct catacacttg      300
agcaagcagt gtcctcactg aagtatgact tcctgcacct gcaccaccga gcaggagcca      360
cttctgcac ctcaggagcc actgagcact agactcacac kccaatgctt cctattttat      420
cctccgccct catggagtcc ttgtccaagc ctgcccttca agcagagaca aatcacacag      480
```

```

caggaacaaa tttgctcaaa ggaacttgaa ctacaatggt tcctgggcac agaagagaa 540
acacttgga ttggggaagt tcccatccta acaacttaga ctcaggaaga agaaccctgg 600
agcttctcca gcatggccag aatctcagtc cacttcaaaa tcctcagtct ttagatcagg 660
agttctttta gggatgaggt caaggtttct ggggtgcacat taccactgcc tttcagtcct 720
atcatctggg catgaggagc ttgttatctc gttctatcca ttatttctaa acctcctgt 780
agagggctgg gttagagagt g 801

```

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<210> 16
<211> 801
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (401)..(401)
<223> SNF162=A/T

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<400> 16
caccagcct acagtgggtc gtttctaaga caaatgctt tgaattggct taggtcagca 60
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gtcagcctcc cccttcccca ccttcgcccc ttagttgcct tcacctgaac caaagtagtt 180
tagtctaaga tgaaagttta ctacgctgca aaatagcttg ttttgtctgt tcttagcctg 240
cccagctact taggtcataa gtctaact tgaagagccc ctaagctaac taagattaca 300
atgcattgtg ggctgcaaca aaatgcagca aaacgaccct aaaataaaca aaaaacaaaa 360
aactcctggc gctcccaccc aacaatcaac aggcgagaag wttatgaccc cgtagtactc 420
agcctatgag gaactggggg agggacctgt gcactagggg ataaactgct tgttgaaagt 480
gtgctgggtg tgctgtcag acacctgac ttgcaagact gtcattaaaa gtctcacttt 540
cactgttctc cggtctctcg agtccattct ttgggttggg atgggcgaga ctgtttctca 600
cattatgaaa agctgaaggt taagtgaact tggggaatac tgctcctgc tggctggatg 660
tcatggaagc ctggcccatc agcagagaat gataagctgg agttctggag ggtctgattt 720
ccaaggaatc accccttgg aagctcctct aatacaccct gatgagatta acctgattag 780
gtccattggt tgataaaaag a 801

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<210> 17
<211> 801
<212> DNA
<213> Homo sapiens

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<220>

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<221> misc_feature
 <222> (401)..(401)
 <223> SNP164=A/G

<400> 17
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 cctgtgcctg cccatggtgt ggggagggag ggagtgggga agggggtgtg ggcctttgag 120
 cttcactaga gacctgaggg agcagaggtg ctccccaaga cctggactcc ttccctcacc 180
 ctccctcccat cactctcctc actgtagcta tggccaggtg agggctcagg gctacttgag 240
 gaccttgctc agcccagggc ctccatccca ggcattgttt ccaaactctg taagggtgt 300
 ctctgaatct gtagaaacag ttattttctat gtgccagga ctgggttaga gggcaccaac 360
 cccacccctt gcaaactgct cctcacctct tagcgcccca rtgaggagaa gaaagagtta 420
 gaaatcagga atctactcag ggctcccctc tctccccttt ccagcctcc cctggctttc 480
 tctttctaca gaaacaccaa ggaggcagcc accaaggacg aggggaggcc caggcattat 540
 accaggcagc ggagccagcc agtccccca gatggtggag ggaggtgggtg gaggtgtctg 600
 ggaccagaaa atagtgagga ccctcttact gaagtgagga cgggtggcat aaactgaggc 660
 ccagatgggtg gaccagatct cctgagccat ctactcattt cttcgtgtgt tccagtttg 720
 gtaagaatag gctaaaaaaa aaaaaaaaaag gctttgaaga ggttcctttc ctcagataag 780
 aattcgtaga ggattattgc c 801

<210> 18
 <211> 801
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (401)..(401)
 <223> SNP166=A/G

<400> 18
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 cacacccttg gtccctcagaa ggttgaagac tgctaggcag gagaaattat tcctgaagac 120
 ctctacggag cctgtttctg tgaacagggt ttgttagtct aacatgatta agctctccag 180
 gtaaagatct ccaatgacca gctggctgac tgtgggttga aagaagggtt actctatgat 240
 gcaggcctct catgggggtat ggaaaggac ctgggacttt gaaatcatca aggatgagtt 300
 gtcaccagac accactgcc aatgggttgg tctcagtcct aaggtaacca tcaatctccc 360
 ttaggttatg ataaacttag ctattcttgg cagagcaaaa rggaaccaag ttccacctgt 420
 ccactggcaa ataatactct tctagctacg gatgaggaca ggtcttggga ttttatatta 480

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atcttcctga aaacacagag acagccaagt tattgcctga tacttacaaa gataaggctt 540
tgataaaata caagaattat ttgtattttg aggaaaaaga catTTTtgat aaagcacaga 600
agagcctaaa acagattctg cacaggcaaa taatatttta taaaaatggT gtcaattaat 660
atgttgaata aaaggTatTT ttgagggggT tgatttccag ccatctcaca ggaaaacaac 720
tgcattggtt gcattaaCT ttgactgtgc tgcgagtgtc ctccaaagga tctcgcttac 780
tcccttatga gtgacatggg c 801

```

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<210> 19
<211> 801
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (401)..(401)
<223> SNP168=G/A

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<400> 19
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atgggtgatca agccttgtgc tttttcatct gcttttatac ccctttatga tctagtcatT 180
tcaggTtaat gtaagtagtg ttccatttct taaaagggat aaaatatTTa aatagttgct 240
aatTTtatTT ttatttgaat accaatgaaa tattatcatt tttagataat tcttattgtt 300
tgctactcaa acgaagatat gatattatct tattattaaa aactcctgg taacttctgt 360
ggattttgtg aggtcagaaa aaaaatgcct gaaattttca rtggaaagcc ttgagtacat 420
tacacctgac ttcacaatgc agtaaataga gaaacaagag tttccgattc atgtaagaag 480
gagcataaca gattaaggta tgaggaataa tttatatcca aaactacacc agtgtctcca 540
ggcatgtgtt agaacagtac ccccaaatt ctgttgtgca tatgcatctt ctggggattt 600
tacaaaatgc agattctgat tcagtggctc tggagtgagg acacagtctc tgcatttcta 660
gaaagttcct accacacaaa atccacatat atgtttgaac aataacaagg ccagccagga 720
gaagaggctc aggtgtgtaa tcctagcact ttgggagttt gaggcaaaag aattacttga 780
ggccaggagt ttgagaccag c 801

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<210> 20
<211> 1336
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_feature
 <222> (336)..(336)
 <223> SNP169=C/T

<400> 20
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 cttcaaaggt ttaatttctg acttcattgt tctttgttct cgagatgaac ttccttgtcc 180
 cttctcctaa gctacctgct ctgtaaaca cttctccac cagtccaat ctgtaactca 240
 catctcctcc ttatttagaa agagtcctct ttactcctt gctaccatt ctgtaactg 300
 cccctccac aaaactaccc ttccacatt tgccaygcc tgacatgcc aaacatacct 360
 tgtaccataa tggactgct ctccctccc acctaattag ccatactcaa ttttaaacag 420
 tagccaatca ggtcagttta gattgtgtgg tccaactcca gccaatgggg acaggacaca 480
 gaagcagga ctaaccacgt tagggatgaa aacccttcc ctctttgtt tgggtgtgctc 540
 ttgcagtggc cagaagtga agcggcactc ttctgtagaa ataagtttgc cttgctgaga 600
 aatattttgt ctgagtgtc attttcttg cgactctgag ctcttgtttc taacaaaata 660
 gggggtcac tgggattccc atttctctct gaggaagggc ctctgatcac ctcttaggag 720
 gagatgcac cactgcttc attgcagtgg cctcaggggt aaggaatcag gaccaccca 780
 gcatgataaa taaaccaga ctctcagcaa cacaggaaga aaaggcctac agttaccgtg 840
 gcgaccaggt aactgtgcac agacaaagg aaaaaaac actagggcag tgaagtactt 900
 ccttagtggc caggacattc tgcaggttga aaatgtgtga atgagatgca caattaagtg 960
 caaagtgagt gtggagtaaa gtaaagggtg caagaaatct ctagtaagag aggttgagcc 1020
 ccagggaat ggtgcaagaa atctctagta ggagaggttg agccccacgc aactcagca 1080
 gggaaaggag agcgagaaac ctccagtagc ggggattgag cctccaggga aaagggtgca 1140
 agaaatcttt aatacgagag attgagcccc cattaacctc caagacggga gtgcaagaaa 1200
 tctctaatat gagagatatg agccccatt aacttccagg atatgaaata ccctagtaaa 1260
 acaagaacta caaagggcaa aggagataac acaattccct ctgatagcct tctaggtctc 1320
 atgttaaaat attgga 1336

<210> 21
 <211> 801
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (401)..(401)

<223> SNP170=C/T

<400> 21

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aaaattaaaa aaataaatta atacctttct ctctcacaca cacacacaca aacacctttt      60
atgtgttaag ccagatacag ttaacatgaa aaccagatgt tttaaataa tacctcaaaa      120
ttcagatcaa ataatatata tcctgaatct tgtttaaaaa gtcatatata atccactagt      180
ttcactattt ttggtgctac tgaataatgt atggtttgta ttttttgttt tatgaggttt      240
tttaatttgg tttgaaatac ttgctttaga ttactgaaa ctagaattaa tgggactttt      300
ttgaaatttt gcttttagac ctggggagtg atggttcaga gtcagatgtg ctcacagtta      360
tggatgctac atccactgat cctggctgaa gaggttccag ygacacttga atagtaactt      420
ttgtttcagg aggtaatcct tctagtgtct taggcttctt aaacatttga tgacactggg      480
tcttgtgctc cattttctcc ttgaaagtta aaaactgtag ccggcacttg gaacactggt      540
gtgcactctt tccccagtgg cccctataat gacacatgta tgggtgttgc gttttgaaaa      600
ttttgagaca aaagggacaa agcaaattct ttgtgttttc atggcacggt ctaaaatgtg      660
tttctacatc agcaaagacc gacgatctat aatggcaaac ctggcacaca tagggcattt      720
cgccaggctt atgatgggcc ttcagtgtgt gtaagaggac ctgatctggt tcaaatagaca      780
attcacagat ttacagaca g                                          801

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<210> 22

<211> 801

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (401)..(401)

<223> SNP172=A/T

<400> 22

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aaatatgctg gtatgaccaa gacagttata gtttaaactt ctatctctgt ggaattatgg      60
atagtccac tcttcaatct ttaataagtc cttcagttta gatgataaat tacatagtca      120
acctagttaa aaggaatcta gaggttgatg aaagctgtga gagcatattc tatgcagacc      180
acatagggtc tatcatgact ccctatgtaa cttgggtctc tgcgactggg aagctcccag      240
ggaaaaaacc ccagttaaga cttctgcaga gcattcacat tttgtttcaa acttatacaa      300
cactaatgct aaagctcaac tctcagaatt gtattattca gtattatcca aataactgat      360
taatttacac actgaaggga aagaacaagg aatggaccta wacacacttg tagtttacia      420
gtataagaag ctaacaaaga ataagattaa aataacttgt gccaggccgg gcatggtggc      480

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```

tcacgcctgt aatcccagca ctttgggagg ctgaggcagg tggctcacga ggccaggagt 540
ttcagaccag cctgaacaac atggtgaaac cccatctcta ctaaaaatac aaaaacttag 600
ctgagcgtgg tggcacacgc ctgtaatccc agctactcag gaggcaggag aattgcttga 660
acccgggagg cagaggttgc agtgagctga gattgtgcc a ctgcactccg gcctggacaa 720
cacagcaaga ctccgtctga aaaaaaaaaa aaaaaaaaaa caaacaactt gtgcccacat 780
taactaggtg ttaaaagcca a 801

```

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<210> 23
<211> 601
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (301)..(301)
<223> SNP174=C/G

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<400> 23
agctggaagg gagtgggaaa ctgccggtgg cagtgcctggc aggtggtgtg gtcttcccag 60
ctgtcgttcc tctgcttctc aaattccaaa tgatgcttca tgtgattcat aaacttaata 120
tttttttagaa ctttcacgca gctgaggcat ttaaagggtg tgtgagtctt ctgttccggc 180
tgcccatctc ctttatgctg tccatagtaa aagtcgctaa gtaacacgat gggattttct 240
ttcttgggat caaaggctct gttttgactt gctagacttg aaatgtctgt cattgccagg 300
scagactcac ttgctctctc tggatctgta agattgaaat gtgcctttcc attagcatca 360
ggccaaggaa atgttactcc attctgaaca tggtttgatg agttgcagat cccctgtgag 420
gggtgtatttg tgcttattgt agaagacata tctgaaggga ccacagctaa agaaggtacc 480
cctgggattc catccctgag ttaaccctt ttggaatctc tgctgtttat atctgaagtg 540
gaaagtcgct ttgaatcagg agaactctca tttctgcctc ctccagagac catagctcca 600
a 601

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<210> 24
<211> 692
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (492)..(492)
<223> SNP181=A/G

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<400> 24
acacctatct ttttgtcttt tcttttcttt ctttcttttt tttgagacag ggtctccctc 60

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tctcactcag gctgaagtgc agtggatatga tcttggtctca ctgcaacctc tgcctcccta 120
gtagctggga ccaccacagg catgcaccac catgtccggc taatttttaa aatttttttg 180
gtagagacag agtttttgcca tgttgcccag gctgggtctca gactcctgga ctcaagagat 240
ccgcccacct tggcctccca aagtgtctggg attacaggcg tgaaccactg cgttggggccg 300
cttatcactt taatgtctaa tgagaggccc ctggagctgg aacccttagc ccagcctga 360
cccctgacct ttctcccatg tcctcaaatt caaaaactca cctctggctg tccattcagt 420
tgttctcaag tctgactgtg ctctttgtcc ttcatgaact agaactagtc tttctttcaa 480
accattttga tragctgatc aatgtctcct cataccattt ttctcattca gccttcctcc 540
tggggttggt tttatttacc atctaacaat atttctgtaa ccctgagcct ctagagctgc 600
ctcaggtgca ctaacgctgt gactaggctg ccctgggaca agctaagagg ttctgcgggg 660
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```

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<210> 25
<211> 801
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (401)..(401)
<223> SNP182=A/G

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<400> 25
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ccttcagtgc atggggctca gtgcagctgc ctccctgaca gtctccctgg gacattaagc 180
ttgtcagctt ctctcttcca aatgcaggctc tggttgtcct aagcccagct cagcgctgct 240
gtggactttg catcctaaaa acattatcaa ctctgccttg tgcctcagtg gactggcctg 300
gaggaaacaa tatgaggtgt cctggctctt tccaccccca gcgtctctct ccctcagtgg 360
taccagtacg gtccctcatga cggttcatct atacctgcca rtctaggcct ccacactgcc 420
gactgtggat ggtcacagaa cccaaaatgc taatcagcct taagcagatc atgctaatag 480
tttctgcaga tctgggtgcc tcatcccaga tctaggagtt cacaagctag gccagctcca 540
gggagataac atgtatcaca gagtctggac acgacaaagt ggctttgctg tattttttgct 600
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tgaacaggaa agcagccagg aggatgtgct gccttttgac ctgtacacaa atcagtgcc 720
tgtgccgact gtgtgtgaat atctgtgcct gtgtgtatat ttgtgtacat gtgtgtatgt 780

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atgtgtacgt gtccaagttg g 801

<210> 26
 <211> 801
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (401)..(401)
 <223> SNP183=A/G

<400> 26
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 tgatgacatc aggacagtta aaggatctgc gtgtctaact gccccaggt gatgctaaca 180
 ttgctgccct ctgaggacca caagcaaagt agctcagctc ctgacctcct gctcccagca 240
 caggtgagat gcacctcagc tacatctgtg aagcccagga gactttctct ccctcctcag 300
 gctccctgga gtgatgaccc aggactcatg cctctgcaca tttatccttt ccctcagagt 360
 ttggggcctt atcagtcctg ttacatcttc tcagcatctg raaccactgg agaggtggtc 420
 accatctcct gtgctgacac agcagtgaca ttgggggtta taattctgtc tcttggtaac 480
 aaaagcaaca gggaagagcc ccataatgact gaggggtgag atcaggaaaa agcctcagag 540
 attccagttc taatctcagg ccgttctttg tattctttta tgagctagtt agtcagctgg 600
 tcagtcagct gtggccacaa gaagaaatgg aagagaggtt cagaaaacag ccctagagac 660
 catagacca gagctctaga gacagcaggc ccaatgtgct acacagggcc acagggaaag 720
 gcatcaggtt cattagaaga cagaagacag gagggcaggg gatcccttag accatgactt 780
 ttatcagaat ttcctcagga a 801

<210> 27
 <211> 801
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (401)..(401)
 <223> SNP186=A/G

<400> 27
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 gggtttacaag ttactgttct ccaatatgat tggggtttgt ttcactgttt ctctatatat 120

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atatatttgc attttcttgg gtaagctgag ccccttgtac ctggtcttga gtcaggcagg 180
ggccacacag agaagaggac ttctcccctt ggcaccagcc gtccacagat cagggcatca 240
aggacctgag cagcagggttc tgaatccaca cctagacccc ggaagtcctt gagctcccag 300
ccgacagtgt ggagcagcca ccagggggaa gcagagaatc aactggcaaa gcgacctggg 360
gatggggcag gcctgggtga tagggagatg ctgacatgca rtaagagcca gtgaccacca 420
cctcagattt agagggaaag ggtctttatt gtcctagagt attgtccttg aactgatgt 480
aaaaattcta gaatcacatt ttgtcttcag ctcttttgca tgctgactct ttgtctgaca 540
cagatccagg cacttgactt ctcaaacgc cccctcctcc acaccagtt gtgctaaaac 600
tgcaccccc tcatgtgcag tgcctctct gaggtcacag gtatccccct actcccattt 660
gatctgggaa cccctgtcct gcagacatag tggttggtt ctaacttct agctgccct 720
ccacatccac cgtccctggc ctttcccgac tctctctgg ggaagctgcc aaatcacagc 780
tcttgatttc ctggtgagtc a 801

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<210> 28
<211> 735
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (535)..(535)
<223> SNF188=A/T

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<400> 28
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atcctgaaca agagggcttt ctggacttct ttttgttttc aggtttgtgc cccttcagg 180
ttggggctgt ctggagtccc agccagggga cagtggaggaa atccagcagt ctcaactga 240
ctctgttgta tttcatctgc tggggccatc ccaaactgct gcgtaccatt tcctttcctg 300
gtgctcaaat agctgctcca tgcacttgct atggttttat agctcaatct agatgggaag 360
acaggatagt gtatgttaca atatttaaata agaacctgaa tcccttaata gttattttaa 420
tatggaacat taaaagagtt gcatcatagg caatggggaa agatgaagaa agattaaacg 480
catttgaggg aaaaactaaa aatgtcttta ttgaatgtct gtgtgtcttc agtgwcaag 540
ggttgagaga ggtcagcttt aggttgctct gaggatgtgc tcagatgggg gaaagtaaga 600
aagcaggaaa cgtgcatctc tgtgacctga cacataaatc acagtaaaat ggaagtaaat 660
ctttcaataa acctttcaag ataacatcac tctggtgcac atagaaaggc ctgttagcaa 720

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actttccctt ttccc

735

<210> 29
 <211> 601
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (301)..(301)
 <223> SNP189=A/G

<400> 29
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 gcacctaag agccattaa acaccctt gtgcctcaat ggaataacct ggagtaaata 300
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ggttgtgtca aatgtcccaa ctcaaaactt ttctgttttc ctaagttatc tgcttctatc 840
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cagcatttcc tcatcttcaa atgtggagga cagtagatga tcttagctcc caggattagt 480
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tatagtcaaa aaggacccca acttaaagca cctgccagcc ctctcctcct ccaccactgc 600
cgaatggagc caggcacgag tattccaggt ggacagacga atagaaatac aggggacgag 660
ccccttccca gatcctagcg cagcttgctc cctacttaag gaatgatatt ggaccctgca 720
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 <213> Homo sapiens

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ggcacctcta aaagcccat aatattctgc aagatactag tatgtcatgg aagtagttta	660
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