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**Isolation of microsatellite markers from red drum, *Sciaenops ocellatus*, and characterization in red drum and spotted seatrout, *Cynoscion nebulosus***

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**Abstract**

**A total of 323 nuclear-encoded microsatellites were isolated from an enriched genomic DNA library of red drum, *Sciaenops ocellatus*, and characterized in 20 individuals each of both red drum and spotted seatrout, *Cynoscion nebulosus*. The microsatellites include 240 perfect repeats (224 dinucleotide, nine trinucleotide, four tetranucleotide, and three pentanucleotide) and 83 imperfect repeats. For red drum, 301 microsatellites were polymorphic; six deviated significantly from Hardy-Weinberg expectations following Bonferroni correction. For spotted seatrout, 172 microsatellites were polymorphic and only one deviated significantly from Hardy-Weinberg expectations following Bonferroni correction. The microsatellite markers characterized in this study will be useful for future aquaculture and population-genetic research in both species.**

The red drum, *Sciaenops ocellatus*, is an estuarine-dependent fish distributed in the western Atlantic Ocean from Massachusetts in the northeastern United States (U.S.) through the Gulf of Mexico to Tuxpan, Mexico. Red drum is an important aquacultured species in the U.S. and elsewhere, both to supplement ‘wild’ fish with hatchery-spawned fingerlings (Tringali *et al.* 2008; Vega *et al*. 2011) and to produce a viable commercial product (Lutz 1999; <http://www.fao.org/fishery/culturedspecies/Sciaenops_ocellatus/en#tcNA0078>). The related species *Cynoscion nebulosus* (spotted seatrout) is also aquacultured for stock enhancement along the U.S. Gulf Coast (Vega *et al.* 2011;

[http://www.usm.edu/gcrl/](http://www.usm.edu/gcrl/research/)

[research/](http://www.usm.edu/gcrl/research/)seatrout\_main.php). Stock-enhancement programs benefit from the use of genetic tools, such as microsatellites, through assessment of genetic diversity (Perez-Enriquez *et al.* 1999) and unequivocal identification of hatchery-spawned fish in the ‘wild’ as a means to assess stock-enhancement success (Karlsson *et al.* 2008a).

Here, we report development of 323 nuclear-encoded microsatellites from an enriched genomic library of red drum and their characterization in samples of red drum and spotted seatrout. Previously, Renshaw *et al.* (2009) demonstrated a reasonable success rate in cross amplifying microsatellites in spotted seatrout based on polymerase-chain-reaction (PCR) primers developed for red drum. The rationale for the work was to generate microsatellites that could be used to further saturate the genetic map for red drum generated recently by Portnoy *et al.* (2010) and to initiate a genetic map for spotted seatrout. Genetic maps for both species can be used as a tool to enhance selective breeding through identification of quantitative trait loci and marker-assisted selection (Liu & Cordes 2004) as well as use in association genetic studies (Ewens & Spielman 2001).

Generation of an enriched genomic library of red drum DNA followed protocols outlined in Renshaw *et al.* (2010). DNA fragments were hybridized at 58o C for 1.25 hours with 50pmol of a 3’-biotin modified (CA)13 oligonucleotide, bound to streptavidin-coated magnetic beads (Dynabeads M-280,Invitrogen), and then put through a series of washes to remove fragments without targeted microsatellite motifs. Microsatellite-enriched DNA fragments were ligated into the pCR 2.1-TOPO vector (Invitrogen) and transformed into *Escherichia coli* (One Shot TOP10 Chemically Competent Cells, Invitrogen). A total of 864 positive (white) clones were sent to the University of Florida’s Interdisciplinary Center for Biotechnology Research (<http://www.biotech.ufl.edu/>) for sequencing with the M13 forward primer. Sequences were edited and vectors trimmed using Sequencher 4.1 (Gene Codes). In addition, eight red drum microsatellite-containing sequences available on GenBank were evaluated (denoted as *Scoc* in Table 1). Primer pairs were developed using Primer3 (http://frodo.wi.mit.edu/). An additional 27 microsatellite markers (*Soc*744, *Soc*753, *Soc*758, *Soc*759, *Soc*761, *Soc*762, *Soc*770, *Soc*773, *Soc*778, *Soc*781, *Soc*783, *Soc*785, *Soc*786, *Soc*792, *Soc*796, *Soc*800, *Soc*804, *Soc*807, *Soc*810, *Soc*812, *Soc*814, *Soc*819, *Soc*825, *Soc*826, *Soc*834, *Soc*835, and *Soc*837), previously described in Portnoy *et al.* (2011), were included to assess population statistics for both red drum and spotted seatrout.

Fin clips were taken from 20 red drum and 20 spotted seatrout sampled near Corpus Christi (Texas). DNA was extracted using a modified Chelex protocol (Estoup *et al.* 1996). PCR amplifications followed the protocol outlined in Karlsson *et al.* (2008b), using 1µl of DNA, 1x Colorless GoTaq Flexi Buffer (Promega), 2mM MgCl2, 200µm of each dNTP, 5pmol of a fluorescently labeled 21bp 5’-tail-sequence primer (5’-GCCTCGTTTATCAGATGTGGA-3’), 5pmol of a reverse sequence primer, 0.5pmol of a third oligonucleotide consisting of the 5’-tail-sequence followed by the forward primer sequence, and 0.5U of GoTaq Flexi DNA Polymerase (Promega). The 5’-tail-sequence primer was labeled with one fluorescent label of Dye Set D (Applied Biosystems): 6-Fam, Hex, or Ned. Amplified PCR products were run on an ABI 377 automated sequencer. Alleles were sized using the Genescan 400HD [Rox] Size Standard (Applied Biosystems); allele sizing and calling were performed using Genescan 3.1.2 and Genotyper version 2.5 software. Genetic variability of each microsatellite was evaluated as number of alleles, gene diversity (expected heterozygosity), and observed heterozygosity. Wright’s FIS, estimated as Weir Cockerham’s *f* and using GDA (Lewis & Zaykin 2001), was used to measure departure of genotype proportions from Hardy-Weinberg expectations at each microsatellite. Micro-checker (Van Oosterhout *et al.* 2004) was used to assess evidence of occurrence of null alleles and scoring errors due to stuttering and/or large allele dropout.

Of the total of 426 microsatellites assayed, 323 consistently amplified and were polymorphic in at least one of the two species. Summary data for these microsatellites are presented in Table 1. A total of 301 markers were polymorphic in red drum, with the number of alleles ranging from 2 to 26; expected heterozygosity ranged from 0.0500 to 0.969, while observed heterozygosity ranged from 0.0500 to 1.000. Following Bonferroni correction for multiple tests (Rice 1989), genotypes at six microsatellites (*Soc*750, *Soc*886, *Soc*937, *Soc*960, *Soc*992, and *Soc*1003) deviated significantly from Hardy-Weinberg expectations; analysis with Micro-checker indicated the possibility of null alleles at 36 markers (Table 1), with seven of these (*Soc*797, *Soc*886, *Soc*892, *Soc*944, *Soc*945, *Soc*1003, and *Soc*1136) exhibiting evidence of scoring errors due to stuttering.

A total of 172 microsatellites were polymorphic in spotted seatrout (Table 1), with the number of alleles ranging from 2 to 27; expected heterozygosity ranged from 0.0500 to 0.969, while observed heterozygosity ranged from 0.0500 to 1.000. Following Bonferroni correction for multiple tests (Rice 1989), genotypes at only one microsatellite (*Soc*1061) deviated significantly from Hardy-Weinberg expectations; analysis with Micro-checker indicated the possibility of null alleles at 14 microsatellites (Table 1), with three of these (*Soc*847, *Soc*955, and *Soc*1061) exhibiting evidence of scoring errors due to stuttering. The microsatellites characterized in this study will be useful for future aquaculture and population genetic research in both red drum and spotted seatrout.

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Table 1 – Summary of 323 microsatellite markers isolated from red drum, *Sciaenops ocellatus*, and characterized in both red drum (top) and spotted seatrout, *Cynoscion nebulosus* (bottom).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Msat** | **Primers** | **Motif** | **Clone Size** | **GenBank** | **N/NA** | **Size Range** | **HE/HO** | **PHW** | **Micro checker** |
| ***Soc*742** | GTGAGGGTCGAACGTTTTGT | (GGT)5 | 85 | JQ235209 | 20/2 | 101-107 | 0.142/0.150 | 1.0000 | **-** |
|  | AAGTGTCCCACGGATGACTC |  |  |  | 20/4 | 107-122 | 0.633/0.700 | 0.8622 | **-** |
| ***Soc*743** | GACTCATCCTGGCTCTCTGC | (GT)117bp(TG)5 | 142 | JQ235210 | 20/13 | 157-183 | 0.899/0.900 | 0.9553 | **-** |
|  | TCTAGGACAGCATGGGCTCT |  |  |  | 20/14 | 171-221 | 0.890/0.750 | 0.0156 | **-** |
| ***Soc*744** | TGTCTTCAGATGGACGCAGA | (AC)53bp(CA)11 | 236 | JF509110 | 20/17 | 254-308 | 0.938/0.750 | 0.0100 | **N** |
|  | CAGAGAGGGCTTGTTTGAGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*745** | TTTGCAAGTGTCCGTCTGTC | (CT)52bp(CT)5 | 149 | JQ235211 | 20/4 | 169-175 | 0.653/0.900 | 0.1147 | **-** |
|  | TGGTGCATTATGAAAGCCTAC |  |  |  | 20/6 | 181-209 | 0.632/0.650 | 0.6147 | **-** |
| ***Soc*746** | CCATGTGGCAGATGACAGAC | (AC)11 | 279 | JQ235212 | 20/4 | 299-305 | 0.599/0.500 | 0.2156 | **-** |
|  | GGGGCGTCTTAACACACATT |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*747** | TTGTGGTTATGGTTCCATTCAA | (GT)5 | 110 | JQ235213 | 20/1 | 132 | 0.000/0.000 | 1.0000 | **-** |
|  | AAAATCTGCGGGATTACAGC |  |  |  | 20/5 | 128-138 | 0.426/0.400 | 0.1103 | **-** |
| ***Soc*750** | TGTAATGCAGCGATATGGTCA | (AC)27 | 149 | JQ235214 | 20/10 | 141-169 | 0.888/0.450 | **0.0000** | **N** |
|  | TGTAATGCAGCGATATGGTCA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*751** | CACGTTTTTGTCTTTGCACAC | (GT)6 | 93 | JQ235215 | 20/3 | 113-117 | 0.229/0.250 | 1.0000 | **-** |
|  | ACAAACACAAAGCCGAGGAG |  |  |  | 20/4 | 115-125 | 0.622/0.800 | 0.1644 | **-** |
| ***Soc*753** | TCCAGCCTGCTCAGATTTTT | (AC)26 | 155 | JF509111 | **na** | **na** | **na** | **na** | **na** |
|  | AAAGCAGGATGCAGTTCACTC |  |  |  | 20/3 | 134-142 | 0.537/0.600 | 0.6478 | **-** |
| ***Soc*754** | GAGTGAACTGCATCCTGCTTT | (TG)8 | 115 | JQ235216 | **na** | **na** | **na** | **na** | **na** |
|  | TCGCTCTCGCTCTCTCTTTC |  |  |  | 20/2 | 129-131 | 0.262/0.300 | 1.0000 | **-** |
| ***Soc*755** | TGTGAGCTGCTGGACTGTTC | (GT)8 | 95 | JQ235217 | 20/6 | 117-131 | 0.559/0.600 | 0.8009 | **-** |
|  | TGGGACTCGATGTATCCTGA |  |  |  | 20/4 | 121-129 | 0.696/0.800 | 0.2988 | **-** |
| ***Soc*758** | CCAGGATGCCAAGGATACAA | (AC)62bp(AC)5 | 289 | JF509112 | 20/19 | 307-387 | 0.919/0.850 | 0.1791 | **-** |
|  | TGCCTTACACAATGCTGGAG | 12bp(AC)16 |  |  | 20/2 | 251-253 | 0.050/0.050 | 1.0000 | **-** |
| ***Soc*759** | GCAGAAAAGCCCTGTTTCAA | (GT)20 | 210 | JF509113 | 20/12 | 223-249 | 0.910/0.900 | 0.2994 | **-** |
|  | TGCATGCCAATCTCATCATT |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*760** | GTCCAATGCAGCAAAGAAAA | (TG)7(AG)8 | 274 | JQ235218 | 20/5 | 295-315 | 0.426/0.300 | 0.0941 | **-** |
|  | TTGACAGCACGGACACATTT |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*761** | TGCAAACGTTCTGTGAGACC | (AC)7 | 205 | JF509114 | 20/4 | 223-229 | 0.581/0.550 | 1.0000 | **-** |
|  | CTCCCTTGTCTCTGGGATCA |  |  |  | **na** | **na** | **na** | **na** |  |
| ***Soc*762** | AAGCAGGCTCAGTCTTCAGC | (AC)9 | 286 | JF509115 | 20/6 | 303-315 | 0.846/0.700 | 0.0003 | **-** |
|  | CCCCCAAAATTACCAAATCTC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*766** | CCACTGTCTTGACACTGCGT | (CTG)5 | 184 | JQ235219 | 20/2 | 205-208 | 0.262/0.200 | 0.3606 | **-** |
|  | GCTGCTGTGAGCTCAATAACTC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*767** | GTATGACCACATGGGGCTTC | (AC)8 | 215 | JQ235220 | 20/4 | 229-235 | 0.276/0.200 | 0.1534 | **-** |
|  | TGGACGCCTGTAGTCTTGTG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*768** | TGGACGCCTGTAGTCTTGTG | (CA)6 | 141 | JQ235221 | 20/4 | 158-164 | 0.488/0.350 | 0.0003 | **-** |
|  | TGTGAATGCCTAACCAACCA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*770** | AGAGCATGGGGGAGTCAGAT | (GT)8 | 142 | JF509116 | 20/3 | 163-169 | 0.595/0.700 | 0.6791 | **-** |
|  | ACAGACACGCAGGAACATAAT |  |  |  | 20/1 | 145 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*772** | GTTGGGTTTGCCGTAAGAAA | (GT)9 | 262 | JQ235222 | 20/3 | 280-286 | 0.190/0.200 | 1.0000 | **-** |
|  | CAATATAACTGTATGTTTGCACTCAC |  |  |  | 20/1 | 231 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*773** | CCGCTTCCTGCTGAAAATTA | (TC)21 | 291 | JF509117 | 20/18 | 281-337 | 0.953/1.000 | 0.7634 | **-** |
|  | TTCGTGCCTAAACCTAACCAA |  |  |  | 20/6 | 267-283 | 0.824/0.850 | 0.3113 | **-** |
| ***Soc*774** | CGTTACGTTAGGTCTTCAGTTCA | (CA)8 | 119 | JQ235223 | 20/1 | 139 | 0.000/0.000 | 1.0000 | **-** |
|  | GCCGCGATAAATGGTATGTT |  |  |  | 20/2 | 139-147 | 0.097/0.100 | 1.0000 | **-** |
| ***Soc*777** | GATGGGACATCAAGGAGACC | (CT)7(CA)12 | 183 | JQ235224 | 20/4 | 197-207 | 0.276/0.200 | 0.1709 | **-** |
|  | TGAGGTGTGCGAGTTAGACG |  |  |  | 20/3 | 188-196 | 0.145/0.150 | 1.0000 | **-** |
| ***Soc*778** | ATACACGTAAGCGCACCTGA | (TG)19 | 222 | JF509118 | 19/10 | 225-249 | 0.883/0.737 | 0.1638 | **-** |
|  | ACGGCCAGACATACAAGGAC |  |  |  | 15/1 | 229 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*779** | AGGGAGACAGCTGCAGAGAA | (TG)7 | 239 | JQ235225 | 20/2 | 262-264 | 0.501/0.550 | 1.0000 | **-** |
|  | GGTGCAGAGAGGCAGAAAAC |  |  |  | 20/1 | 261 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*781** | TCGATCGAGCCACCTAATCT | (GT)11 | 164 | JF509119 | 20/9 | 183-201 | 0.797/0.750 | 0.6578 | **-** |
|  | AGCGAGCGCTAATATCGTGT |  |  |  | 20/5 | 175-187 | 0.672/0.700 | 0.0472 | **-** |
| ***Soc*782** | CAGCACTAGAAGCCACACGA | (TGA)6 | 239 | JQ235226 | 20/4 | 258-267 | 0.665/0.550 | 0.1497 | **-** |
|  | TCACCTCTCAGATCTGTTTCCA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*783** | ATTCCCTGCTCACATCCAAC | (CT)24 | 106 | JF509120 | 20/15 | 110-152 | 0.918/0.900 | 0.8488 | **-** |
|  | TCCTTCACTGGACACACCAA |  |  |  | 20/4 | 116-126 | 0.541/0.600 | 1.0000 | **-** |
| ***Soc*785** | CCTGACAATAGACACAAACACATACA | (CA)17 | 281 | JF509121 | 20/13 | 280-334 | 0.903/1.000 | 0.8131 | **-** |
|  | CCTTCACTGCAGGTGCTACA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*786** | TCTCTCCCACTTTTATTCTCTTTCTC | (CT)38 | 179 | JF509122 | 20/15 | 163-203 | 0.940/1.000 | 0.7556 | **-** |
|  | GGAGTGAGAAAGTCCCACGA |  |  |  | 20/2 | 154-158 | 0.097/0.100 | 1.0000 | **-** |
| ***Soc*787** | CCATCTCCCTGACACAGGAT | (CA)53 | 200 | JQ235227 | **na** | **na** | **na** | **na** | **na** |
|  | CAGGGCTGGAAGTAGTTGCT |  |  |  | 20/5 | 126-134 | 0.318/0.300 | 0.4709 | **-** |
| ***Soc*790** | GCCTGTGCAACTGCTAAGTG | (GT)8 | 235 | JQ235228 | 20/3 | 246-260 | 0.627/0.700 | 0.9156 | **-** |
|  | CATGTTAACCAGTCGCAGTGA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*791** | GCCTCTCTAACAGGGCACAC | (GAG)7 | 176 | JQ235229 | 20/1 | 198 | 0.000/0.000 | 1.0000 | **-** |
|  | AGGGATCTGCTCCTGATGAA |  |  |  | 20/5 | 185-200 | 0.429/0.500 | 1.0000 | **-** |
| ***Soc*792** | GCACCATAACCTCCCATCAC | (GT)92bp(GT)16 | 200 | JF509123 | 20/10 | 221-255 | 0.792/0.750 | 0.3891 | **-** |
|  | GCCCCGCTTTAAATAACCAT |  |  |  | 20/8 | 171-189 | 0.809/0.800 | 0.4563 | **-** |
| ***Soc*793** | TGCGCACATGACACAGACTA | (CA)61bp(AC)15 | 199 | JQ235230 | 20/4 | 218-224 | 0.530/0.650 | 0.2975 | **-** |
|  | CTGGAGCTGCCCACATTTAT |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*796** | GTTGAGGAGGTCATCGTCGT | (CA)17 | 238 | JF509124 | 20/14 | 243-277 | 0.876/0.950 | 0.7047 | **-** |
|  | TCACCCTCCTGTCCACTCAT |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*797** | TTTACAGCAGAAATGGTGTGC | (CA)10 | 248 | JQ235231 | 20/3 | 268-274 | 0.309/0.150 | 0.0150 | **N,S** |
|  | GCCACATGACAATGAAGCAA |  |  |  | 20/6 | 253-271 | 0.659/0.800 | 0.4969 | **-** |
| ***Soc*798** | CCTTGGCTTTCATTTCTCCA | (TCACA)5 | 175 | JQ235232 | 20/3 | 192-202 | 0.190/0.200 | 1.0000 | **-** |
|  | TTTGGTCTTTTTCACCTTCCA |  |  |  | 20/2 | 192-197 | 0.224/0.250 | 1.0000 | **-** |
| ***Soc*799** | CACCACCCACCCCTTACTTA | (CT)6 | 192 | JQ235233 | 20/1 | 214 | 0.000/0.000 | 1.0000 | **-** |
|  | GCCTAGGAGGAGAGCCACTT |  |  |  | 20/2 | 205-207 | 0.481/0.350 | 0.3343 | **-** |
| ***Soc*800** | AGTTGGTGTGGCTGTTCTGA | (TG)15 | 183 | JF509125 | 20/8 | 195-213 | 0.835/0.700 | 0.3653 | **-** |
|  | TGCACCACTGACAGACAAAAG |  |  |  | 17/11 | 183-221 | 0.882/0.647 | 0.0059 | **N** |
| ***Soc*802** | TGCGTTTGTGACTGTGAGTG | (AC)6 | 271 | JQ235234 | 20/1 | 292 | 0.000/0.000 | 1.0000 | **-** |
|  | GTGTGTGCTGTCTCCCACTG |  |  |  | 20/2 | 288-290 | 0.097/0.100 | 1.0000 | **-** |
| ***Soc*803** | GGGGAGCACTGAGACAAAAA | (AC)9 | 202 | JQ235235 | 20/4 | 222-236 | 0.314/0.350 | 1.0000 | **-** |
|  | CCATGAAACACTCTGAAGTGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*804** | GTGCTCGATCTCTCCGTCTC | (CT)9(CA)12 | 248 | JF509126 | 20/5 | 260-270 | 0.596/0.500 | 0.3584 | **-** |
|  | CCGTTGTCTGGTCCCTCTAA |  |  |  | 20/2 | 267-269 | 0.185/0.200 | 1.0000 | **-** |
| ***Soc*805** | CATGGAGAGGGAGGAATGAA | (TTCTA)5 | 199 | JQ235236 | 20/3 | 210-220 | 0.309/0.200 | 0.0881 | **-** |
|  | CCAAAGGAAGCAGGCAAGTA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*806** | GCTATTTGCCAACCCTCAAA | (TG)8 | 177 | JQ235237 | 20/3 | 198-206 | 0.344/0.300 | 0.5822 | **-** |
|  | TTTAGCGGCCTTAAGCAAGA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*807** | ACCATTCCTCCGGATCATAA | (CA)14 | 141 | JF509127 | 20/8 | 158-172 | 0.790/0.900 | 0.7944 | **-** |
|  | GCTGTGCCCAGATTTTCACT |  |  |  | 20/5 | 161-175 | 0.688/0.700 | 0.4547 | **-** |
| ***Soc*808** | GTCGCTAGGACAGAGGATGC | (GT)10 | 113 | JQ235238 | 20/8 | 133-149 | 0.841/0.750 | 0.0066 | **-** |
|  | CAGCTCACAAAGGTGGACAG |  |  |  | 20/6 | 129-149 | 0.759/0.800 | 0.3753 | **-** |
| ***Soc*809** | ATCCTGTGAAACGCTCCAAT | (GT)52bp(GT)8 | 177 | JQ235239 | 20/4 | 186-202 | 0.479/0.450 | 1.0000 | **-** |
|  | TGTACGAGGGGCTAAAATGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*810** | AACACGCACTTGCTCTCTCA | (CT)6(CA)10 | 150 | JF509128 | 20/6 | 170-180 | 0.737/0.750 | 0.6741 | **-** |
|  | AATAAATCGGGGGAAACTGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*812** | AAGGCATCACTTCCAACATTT | (TG)27 | 143 | JF509129 | 20/19 | 133-161**\*** | 0.941/0.900 | 0.0131 | **-** |
|  | CATGGAGACATCACCGTTTG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*813** | TCAGGTCAGGTTTGTGTCCA | (GA)16 | 163 | JQ235240 | 20/11 | 177-209 | 0.904/0.950 | 0.5803 | **-** |
|  | TTTTCCTATTTAAGGTTTGCTCTC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*814** | CCTCCCCATAATTGTGCCTA | (AC)13 | 123 | JF509130 | 20/3 | 138-142 | 0.568/0.550 | 0.8666 | **-** |
|  | TGATATGTGGGGAACTGTGTG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*815** | CAAAAGGCAAAGCAAGAGGA | (GT)6 | 171 | JQ235241 | 20/3 | 193-199 | 0.344/0.300 | 0.5881 | **-** |
|  | TGTCAGCAGCTACAGGGAAA |  |  |  | 20/1 | 190 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*818** | GCCTGATCATCACGTCTGTC | (CA)9 | 179 | JQ235242 | 20/6 | 206-228 | 0.703/0.700 | 0.2775 | **-** |
|  | GTGGACCAGAGCTCCCAGTA |  |  |  | 20/14 | 212-264 | 0.917/0.750 | 0.0003 | **N** |
| ***Soc*819** | CATGTGATCCGCTCAATGAC | (CA)201bp(AC)5 | 274 | JF509131 | 20/9 | 294-310 | 0.883/0.850 | 0.1878 | **-** |
|  | CGTGTCACCTGTGGAAACTG |  |  |  | 20/19 | 230-310 | 0.936/0.950 | 0.2084 | **-** |
| ***Soc*820** | GCCGGCGTTACATCTCATTA | (GA)7 | 173 | JQ235243 | 20/6 | 189-199 | 0.756/0.650 | 0.1725 | **-** |
|  | AGTCGAAGCCAGCAAAACAT |  |  |  | 20/4 | 180-186 | 0.314/0.250 | 0.2956 | **-** |
| ***Soc*821** | CACATGAGTCCCCACTCTCA | (AC)9 | 216 | JQ235244 | 20/4 | 236-244 | 0.233/0.150 | 0.0969 | **-** |
|  | AGCCTGTCGACCAATGATGT |  |  |  | 20/7 | 239-271 | 0.801/0.750 | 0.1553 | **-** |
| ***Soc*822** | AGCACGACCAGCCAATTTAC | (CA)10 | 292 | JQ235245 | 20/7 | 307-329 | 0.736/0.800 | 0.2709 | **-** |
|  | ATTGGGGCAAACAGAGACAG |  |  |  | 20/2 | 312-314 | 0.142/0.150 | 1.0000 | **-** |
| ***Soc*823** | GGTTGTGCAGCCGGTATAGT | (CCAG)5 | 267 | JQ235246 | 20/1 | 288 | 0.000/0.000 | 1.0000 | **-** |
|  | GCGCTCTCCTGTTTCATCTC |  |  |  | 20/2 | 274-278 | 0.050/0.050 | 1.0000 | **-** |
| ***Soc*825** | CATGCAACATTAGCCCAGTG | (GT)12 | 204 | JF509132 | 20/9 | 224-244 | 0.859/0.800 | 0.2200 | **-** |
|  | TGTTGATGAGCAGCCTTACG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*826** | GGCAGGATTTAGGCAATTCA | (GTGA)11 | 180 | JF509133 | 20/6 | 183-211 | 0.749/0.650 | 0.3238 | **-** |
|  | ACACACTCCTGTGTGCAACC |  |  |  | 20/18 | 210-294 | 0.946/0.800 | 0.0078 | **N** |
| ***Soc*828** | GGGGGTGCAGAGACAGAATA | (AG)7 | 229 | JQ235247 | 20/2 | 251-253 | 0.409/0.450 | 1.0000 | **-** |
|  | GTCCAGGGAGAGCAAGTCTG |  |  |  | 20/3 | 278-284 | 0.099/0.100 | 1.0000 | **-** |
| ***Soc*829** | TCACTGCCATCAGCAGAAAC | (AC)1013bp(CA)27 | 160 | JQ235248 | 20/14 | 163-197 | 0.915/1.000 | 0.9688 | **-** |
|  | TGGCTGCAAACGTAACTCTG |  |  |  | 20/3 | 111-117 | 0.145/0.150 | 1.0000 | **-** |
| ***Soc*831** | TGTGGGACTTAAGGGGAATG | (GT)13 | 237 | JQ235249 | 20/9 | 260-279**\*** | 0.887/0.700 | 0.0106 | **N** |
|  | GCGTCTTGAAACAAGCCTTC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*832** | GTGAAGAAGGCAGCGATTTC | (TC)7 | 131 | JQ235250 | 20/4 | 150-158 | 0.483/0.350 | 0.0594 | **-** |
|  | ATGCACCCATACTCCCAGAG |  |  |  | 20/3 | 146-154 | 0.145/0.150 | 1.0000 | **-** |
| ***Soc*833** | AGAACTGCTGGGTGCAATGT | (CA)13 | 172 | JQ235251 | 20/14 | 192-228 | 0.896/0.800 | 0.0256 | **-** |
|  | TGTCTTCTTCGTGTGCGTCT |  |  |  | 20/8 | 196-222 | 0.665/0.550 | 0.4803 | **-** |
| ***Soc*834** | TGAGAACAGCTCTGCCTCCT | (AC)20 | 248 | JF509134 | 20/17 | 253-303 | 0.935/0.850 | 0.0753 | **-** |
|  | TCATTCCGTCAATGTTCAGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*835** | CCTGTGCTCATATGAACAAGA | (TG)23 | 112 | JF509135 | 20/23 | 124-167**\*** | 0.959/0.950 | 0.4106 | **-** |
|  | CACACAGAATCTTTCAGGGATG |  |  |  | 20/6 | 100-120 | 0.556/0.550 | 0.2416 | **-** |
| ***Soc*836** | CTGCTCCATCTTCCACCTTC | (TC)8 | 143 | JQ235252 | 20/2 | 164-168 | 0.142/0.150 | 1.0000 | **-** |
|  | GCGGAGATAGGGACAGAAAG |  |  |  | 20/1 | 162 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*837** | CAGATGAAGGGAGGGAACAA | (TG)14 | 168 | JF509136 | 20/7 | 182-210 | 0.744/0.800 | 0.6378 | **-** |
|  | CACACAAACATGCACAAGCA |  |  |  | 20/1 | 172 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*838** | TGCCATCTCATCGGAGGTAT | (TC)15 | 198 | JQ235253 | 19/5 | 213-223 | 0.780/0.632 | 0.0303 | **-** |
|  | ACCTCGCCAAATTTGTGAAC |  |  |  | 18/9 | 212-230 | 0.806/0.778 | 0.2159 | **-** |
| ***Soc*839** | GTTCACAAATTTGGCGAGGT | (CA)9 | 146 | JQ235254 | 20/1 | 166 | 0.000/0.000 | 1.0000 | **-** |
|  | CAGATAGAAGAAAGAATTCAAAACTGG |  |  |  | 20/2 | 168-170 | 0.050/0.050 | 1.0000 | **-** |
| ***Soc*842** | CCTACCATGGGTTTTGCTGT | (CA)6 | 252 | JQ235255 | 20/1 | 272 | 0.000/0.000 | 1.0000 | **-** |
|  | TGCTCACATGAGAGTGTGCAT |  |  |  | 20/2 | 278-280 | 0.097/0.100 | 1.0000 | **-** |
| ***Soc*843** | CAACAAGCAAACGCACAGTT | (AC)7 | 225 | JQ235256 | 20/2 | 243-245 | 0.296/0.150 | 0.0731 | **-** |
|  | CTGGGAGACAACACCAGACA |  |  |  | 20/1 | 227 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*844** | TGCTTGACCTGAATCATTGC | (AC)6 | 281 | JQ235257 | 20/5 | 301-317 | 0.664/0.650 | 0.5066 | **-** |
|  | ACGTGGCATATACCCTCCTG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*846** | GCACATACACAGGCATACTTGA | (CA)8 | 125 | JQ235258 | 20/2 | 146-148 | 0.185/0.200 | 1.0000 | **-** |
|  | AATCATTGCACCCAAATGGT |  |  |  | 20/1 | 145 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*847** | CTAGCTCGCAGCTGTCTCCT | (CA)7 | 102 | JQ235259 | 20/1 | 123 | 0.000/0.000 | 1.0000 | **-** |
|  | AACAGAATGAGCCTGCCAGT |  |  |  | 20/5 | 116-126 | 0.710/0.400 | 0.0059 | **N,S** |
| ***Soc*848** | CTGGACCATAGCTTTCAGCAC | (AG)6 | 99 | JQ235260 | 20/2 | 146-148 | 0.142/0.150 | 1.0000 | **-** |
|  | GAAAAGCTCTGCTGAGGTCAA |  |  |  | 20/1 | 145 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*849** | CCTCAGCAGAGCTTTTCACA | (CA)8 | 127 | JQ235261 | 20/3 | 144-148 | 0.549/0.350 | 0.1475 | **-** |
|  | CCCTCAGCCCAGATCAAATA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*850** | CCGGCCAGTGTATTTGATCT | (CT)17 | 199 | JQ235262 | 20/11 | 213-269 | 0.864/0.800 | 0.3672 | **-** |
|  | AGAGAGACAGCGAGGGACAG |  |  |  | 20/4 | 223-229 | 0.717/0.750 | 0.4991 | **-** |
| ***Soc*851** | CCTCGATAGGTCAGTGTGTGT | (GT)52bp(GT)16 | 81 | JQ235263 | 20/9 | 99-135 | 0.759/0.450 | 0.0053 | **N** |
|  | TTGGCAGAGAGCCAGACTTT |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*854** | CCCAGAACCGAGAACAAAAA | (CTT)516bp(CTT)5 | 163 | JQ235264 | 20/2 | 183-186 | 0.142/0.150 | 1.0000 | **-** |
|  | CCCTCTTCTCCACCCCTTAC |  |  |  | 20/1 | 157 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*855** | AAAGGTTTTAATGAGGCAGACG | (TG)11 | 130 | JQ235265 | 20/6 | 143-159 | 0.603/0.650 | 1.0000 | **-** |
|  | ACCCACATGGAGACAGGAAG |  |  |  | 20/7 | 139-179 | 0.779/0.800 | 0.1872 | **-** |
| ***Soc*857** | TGCACACTGAGGCTGGATAG | (AG)519bp(GT)13 | 187 | JQ235266 | 20/8 | 197-217 | 0.746/0.700 | 0.0906 | **-** |
|  | AGCCTGCAGAAGACACCACT |  |  |  | 20/3 | 203-207 | 0.396/0.500 | 0.6359 | **-** |
| ***Soc*858** | CGCCGCTCTTATTGTTTTGT | (CA)12 | 184 | JQ235267 | 19/14 | 201-243 | 0.926/0.737 | 0.0394 | **N** |
|  | CAAACCCCCATTTCAATCAT |  |  |  | 20/9 | 201-223 | 0.842/0.750 | 0.1834 | **-** |
| ***Soc*859** | TCTTGTTGTGCCCATGTGTT | (GA)6 | 261 | JQ235268 | 20/2 | 283-287 | 0.050/0.050 | 1.0000 | **-** |
|  | TGACGGCTTACAGAGGATGA |  |  |  | 20/13 | 300-340 | 0.905/0.950 | 0.7406 | **-** |
| ***Soc*860** | TGCGCTCAGATGGTTTTATG | (CA)16 | 237 | JQ235269 | 20/10 | 248-282 | 0.851/0.850 | 0.4997 | **-** |
|  | ATCTCCAGCCACAGTCCATC |  |  |  | 20/1 | 231 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*862** | GGAAGAAACCCACAGAGTGC | (GT)6 | 142 | JQ235270 | 20/3 | 153-163 | 0.573/0.600 | 0.0569 | **-** |
|  | CTCCCAGACCAGAAGACTGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*865** | TGTCCTTCCCCTTGAAACTG | (GT)11 | 88 | JQ235271 | 20/7 | 110-130 | 0.744/0.800 | 0.3163 | **-** |
|  | GACCCTGGTGCTGACAGACT |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*866** | TTGCGCGTGGTATTTTTAAG | (GT)9 | 127 | JQ235272 | 20/5 | 145-153 | 0.544/0.650 | 0.3631 | **-** |
|  | TTCCCCCAAAAGAAATTGTG |  |  |  | 20/2 | 137-139 | 0.097/0.100 | 1.0000 | **-** |
| ***Soc*867** | CGCTGGTGAAGCCTCATTAT | (GA)6 | 140 | JQ235273 | 20/2 | 158-160 | 0.050/0.050 | 1.0000 | **-** |
|  | TACGGCACATGAAACCTTGA |  |  |  | 20/3 | 162-166 | 0.447/0.350 | 0.1756 | **-** |
| ***Soc*868** | GCGATCGATTCATCACAAGA | (AC)10 | 126 | JQ235274 | 20/4 | 144-152 | 0.550/0.500 | 0.1472 | **-** |
|  | CTCCAAAGCACACACCTCAA |  |  |  | 20/8 | 151-171 | 0.777/0.800 | 0.4694 | **-** |
| ***Soc*869** | CAGCCCGGTAACCTTTTACA | (AC)142bp(AC)25 | 261 | JQ235275 | 20/12 | 255-287 | 0.903/0.750 | 0.1275 | **-** |
|  | CAAAAGGAAATGCAAGACTGC |  |  |  | 20/1 | 221 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*870** | CCATGTGGATGTTGTGAAGC | (GT)5 | 247 | JQ235276 | 20/2 | 266-270 | 0.050/0.050 | 1.0000 | **-** |
|  | GCTATGTCTCCGCACTGTGA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*872** | CCGAAAACAAAACCGCTACT | (TG)8 | 103 | JQ235277 | 20/3 | 113-123 | 0.512/0.600 | 0.7759 | **-** |
|  | TTCAGGTGCTTTCTGCTCCT |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*875** | ATAACGCAGCTCGGAGAGAA | (GT)33 | 200 | JQ235278 | 20/22 | 197-285 | 0.959/0.950 | 0.3894 | **-** |
|  | TTGCTGCATGTAACCCCTCT |  |  |  | 20/27 | 207-303 | 0.969/0.950 | 0.5319 | **-** |
| ***Soc*876** | ATTGTCAACGCCAGTGTGAA | (AC)7 | 258 | JQ235279 | 20/4 | 273-281 | 0.599/0.400 | 0.0291 | **-** |
|  | CAATTGTCCCAAAGACTCGAA |  |  |  | 20/2 | 280-284 | 0.097/0.100 | 1.0000 | **-** |
| ***Soc*877** | AAAACAGAACGGGCAAAGG | (TG)9 | 222 | JQ235280 | 19/5 | 239-247 | 0.511/0.579 | 0.5556 | **-** |
|  | CATTCTGTGGGTGGTTGTTG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*878** | CAAGAGTCGAGATCTTTTCTTCG | (TG)18 | 197 | JQ235281 | 20/9 | 201-227 | 0.853/0.950 | 0.6191 | **-** |
|  | AGCGCTGATGACAACCTGAT |  |  |  | 20/5 | 213-221 | 0.703/0.550 | 0.3331 | **-** |
| ***Soc*880** | GTGTCAAGGACCAGCGATTT | (CT)18(CA)15(TA)6 | 194 | JQ235282 | 20/16 | 203-204 | 0.905/0.800 | 0.0347 | **-** |
|  | CAGGGAGCACACTGGTTTGT |  |  |  | 20/11 | 195-223 | 0.881/0.950 | 0.8788 | **-** |
| ***Soc*881** | GCGTGTCTGCACGTGTTATG | (TG)5 | 215 | JQ235283 | 20/1 | 238 | 0.000/0.000 | 1.0000 | **-** |
|  | AGCAGGAGGTCTGGACTCAA |  |  |  | 20/2 | 236-238 | 0.512/0.550 | 1.0000 | **-** |
| ***Soc*882** | ACCCACTGCAGCCTGTAATA | (CA)135bp(CA)5 | 255 | JQ235284 | **na** | **na** | **na** | **na** | **na** |
|  | TGGAGGATTCGTCATCAACA |  |  |  | 20/16 | 175-209 | 0.906/0.650 | 0.0247 | **N** |
| ***Soc*883** | AGACTTCCGCTTGTTCTCCA | (CT)7(CA)9 | 252 | JQ235285 | 20/7 | 269-281 | 0.590/0.550 | 0.7025 | **-** |
|  | GAAGCGCTAACATGGGTAGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*884** | AGGCTTTCATCTACAGCATGG | (TG)239bp(GT)5 | 157 | JQ235286 | 20/12 | 173-203 | 0.821/0.700 | 0.0128 | **-** |
|  | CCTGCAGAGCTTTTTCGTTC |  |  |  | 20/6 | 121-133 | 0.613/0.550 | 0.4916 | **-** |
| ***Soc*885** | GCACTAGCCCTCATGGGTAA | (TG)7 | 290 | JQ235287 | 20/2 | 312-314 | 0.050/0.050 | 1.0000 | **-** |
|  | AGCACAAGAAGGCCAAACAG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*886** | GCCCTGAGCAAAGAGAAAAA | (TC)8 | 186 | JQ235288 | 20/2 | 207-209 | 0.501/0.050 | **0.0000** | **N,S** |
|  | GGGCACATTGACTTCTGGTT |  |  |  | 20/3 | 201-211 | 0.229/0.250 | 1.0000 | **-** |
| ***Soc*887** | TGTGGCGGGGATATATCAAT | (CA)8 | 220 | JQ235289 | 20/8 | 236-252 | 0.795/0.650 | 0.1169 | **-** |
|  | CGTGTGTATGGTGGTGATGG |  |  |  | 20/9 | 245-271 | 0.812/0.700 | 0.2475 | **-** |
| ***Soc*888** | GGAGATGGAGTTTTGTCTGTGC | (CA)7 | 172 | JQ235290 | 20/2 | 191-193 | 0.385/0.500 | 0.2600 | **-** |
|  | GCCCAGCCTATAGCATCAAC |  |  |  | 20/6 | 186-198 | 0.686/0.650 | 0.4169 | **-** |
| ***Soc*890** | GCAGTAACCAGTGCAGACCA | (TG)8 | 195 | JQ235291 | 20/10 | 209-235 | 0.833/0.700 | 0.1475 | **-** |
|  | CAGTCTGCCGCATTAAGACA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*891** | AGAGGCGAAGAGCACAACAT | (GT)23 | 140 | JQ235292 | 20/12 | 145-171 | 0.905/0.900 | 0.0356 | **-** |
|  | AGTTCCATGCACTCCCTGAG |  |  |  | 20/7 | 126-144 | 0.622/0.450 | 0.0397 | **-** |
| ***Soc*892** | ACCCCTCCCTCTTGTCATTT | (CT)14 | 259 | JQ235293 | 20/6 | 271-283 | 0.824/0.600 | 0.0013 | **N,S** |
|  | GTGTCCAAGCTGCCTCTTTC |  |  |  | 18/6 | 277-289 | 0.721/0.556 | 0.0981 | **-** |
| ***Soc*893** | GAAAGAGGCAGCTTGGACAC | (AC)59bp(CA)25 | 213 | JQ235294 | 20/20 | 153-231 | 0.933/0.850 | 0.2125 | **-** |
|  | GAAATGCAGGGAGACATGGT | 1bp(AC)17 |  |  | 20/10 | 150-174 | 0.890/0.950 | 0.5763 | **-** |
| ***Soc*894** | TTTTTCAGCTGCCATCAGG | (AC)9 | 280 | JQ235295 | 20/4 | 298-304 | 0.477/0.400 | 0.3134 | **-** |
|  | TGATGAGCACGAACAAAAGC |  |  |  | 20/2 | 298-300 | 0.492/0.600 | 0.3644 | **-** |
| ***Soc*895** | GGCGATTATGATGTGTGTGC | (AC)101bp(CA)8 | 145 | JQ235296 | 20/11 | 147-177 | 0.865/0.650 | 0.0084 | **N** |
|  | CCCGGAGCATACTCTCTGTC |  |  |  | 20/5 | 159-185 | 0.392/0.250 | 0.0128 | **-** |
| ***Soc*896** | CAACCTCTCATCACACACACG | (AC)9 | 88 | JQ235297 | 20/3 | 98-110 | 0.376/0.250 | 0.1150 | **-** |
|  | GCATTTAATGTTGTGTCCAACG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*897** | TGAACTGGAAAGAAGTGACATCC | (CA)30 | 271 | JQ235298 | 20/22 | 270-346 | 0.955/0.950 | 0.7003 | **-** |
|  | GTGAGGGTGGCTTTTTATGC |  |  |  | 20/5 | 249-263 | 0.695/0.750 | 0.6103 | **-** |
| ***Soc*899** | CTTGATGCAGCCAGTTCTCC | (GACA)7 | 137 | JQ235299 | 20/3 | 153-161 | 0.347/0.400 | 1.0000 | **-** |
|  | TGAATTTGCTCAAGTGTGTAGTAGC |  |  |  | 20/1 | 151 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*900** | GGAGATGGTGATTGGTCAGG | (GT)1619bp | 260 | JQ235300 | 20/17 | 226-340 | 0.940/0.650 | 0.0009 | **N** |
|  | GGTCAGTTTCGCTGAGAAGG | (GT)1219bp(GT)5 |  |  | 20/6 | 221-241 | 0.815/0.950 | 0.8616 | **-** |
| ***Soc*901** | GAGGGAAAAAGAGCCAGAGG | (TC)14 | 131 | JQ235301 | 20/11 | 153-177 | 0.892/0.800 | 0.1266 | **-** |
|  | TCAGAGCGAGAGACAGATGG |  |  |  | 20/1 | 140 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*902** | CAGCAAACATGCCTTCAAGC | (TG)21 | 180 | JQ235302 | 20/13 | 190-216 | 0.883/1.000 | 0.7622 | **-** |
|  | CCTGATATGACACGATGAGAGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*903** | GCATGTAGAGACAAGCCCAAC | (CA)16 | 152 | JQ235303 | 20/5 | 169-177 | 0.701/0.800 | 0.9094 | **-** |
|  | TTCCCATCTTCCCTGCTATC |  |  |  | 20/2 | 156-158 | 0.185/0.200 | 1.0000 | **-** |
| ***Soc*904** | CAACAGCTGATAAGACCTGAATG | (AC)29 | 120 | JQ235304 | 20/15 | 110-154 | 0.905/0.700 | 0.0091 | **N** |
|  | GACAGACGTGGACCATGAAC |  |  |  | 20/15 | 102-142 | 0.895/0.900 | 0.4497 | **-** |
| ***Soc*905** | AATGTCACTTTCCTGCTTTCG | (GT)91bp(TG)6 | 181 | JQ235305 | 20/6 | 204-240 | 0.741/0.750 | 0.7731 | **-** |
|  | ACAGTGTGTGGCCAAGAGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*907** | CTCCCCTCCTCACACTATGG | (GT)64bp(GA)34 | 186 | JQ235306 | 20/23 | 194-272 | 0.960/0.800 | 0.0138 | **N** |
|  | AACCAAGCCTCGTTATTACCC |  |  |  | 20/14 | 219-273 | 0.919/0.950 | 0.9381 | **-** |
| ***Soc*908** | GAGGGAGCTGTAGCTGAAGG | (GT)8 | 285 | JQ235307 | 20/6 | 301-317 | 0.786/0.850 | 0.5934 | **-** |
|  | AGGGTCTAGGCGTGTTCTGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*909** | GGACGGACCTGAAAGTATCG | (AC)18 | 225 | JQ235308 | 20/10 | 236-274 | 0.786/0.900 | 0.1091 | **-** |
|  | CATCATTCCTGGCTGTGAGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*910** | GCCATGGTTAGTCTTTGTGG | (CA)9 | 201 | JQ235309 | 20/4 | 223-229 | 0.479/0.400 | 0.3934 | **-** |
|  | TTCCCTCTCCTCTCCTCTCC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*911** | AAACAAGTTGGCGAACAAGC | (CA)18 | 253 | JQ235310 | 20/9 | 267-285 | 0.886/0.850 | 0.0475 | **-** |
|  | TGAGAGTGCAAAAGCAGAGG |  |  |  | 20/2 | 269-273 | 0.050/0.050 | 1.0000 | **-** |
| ***Soc*913** | GCACAAAGGACTACTCACACG | (CA)12 | 170 | JQ235311 | 20/4 | 185-191 | 0.638/0.850 | 0.2291 | **-** |
|  | CTGGAGACTACACTGGGATGG |  |  |  | 20/1 | 167 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*914** | GTGGCAGCATGTGAGTAACG | (TG)55bp(GA)5 | 196 | JQ235312 | 20/1 | 218 | 0.000/0.000 | 1.0000 | **-** |
|  | TTCCAACCCCGATTCTAGC |  |  |  | 20/15 | 220-264 | 0.862/0.850 | 0.1066 | **-** |
| ***Soc*915** | AAGAAACATTTGAGCACTTTTCC | (GT)12 | 300 | JQ235313 | 20/3 | 333-339 | 0.145/0.150 | 1.0000 | **-** |
|  | CCAGCCTGTCATTCTGTGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*916** | GCGGAGAGGAATGAAAAGC | (GT)10 | 237 | JQ235314 | 20/11 | 255-271**\*** | 0.850/0.850 | 0.1234 | **-** |
|  | ACGAGTCGGTCACTGTTTCC |  |  |  | 20/1 | 243 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*917** | TTTGTGCTGTCCTGGTATGC | (AC)10 | 246 | JQ235315 | 20/5 | 258-270 | 0.456/0.400 | 0.2641 | **-** |
|  | TTTTGAAAGTCAATGATGTGTCC |  |  |  | 16/3 | 257-261 | 0.492/0.438 | 0.6422 | **-** |
| ***Soc*918** | GAGAGTGATAGAAAGAGTGACAGAGC | (TG)36 | 191 | JQ235316 | 20/17 | 168-210 | 0.922/0.800 | 0.0597 | **-** |
|  | TTAGAATTAACTCAGACTTTTGAGAGC |  |  |  | 20/2 | 154-156 | 0.409/0.450 | 1.0000 | **-** |
| ***Soc*919** | TGAATGAGCATGAATGAGTGC | (GA)112bp(GA)17 | 251 | JQ235317 | 20/19 | 259-305 | 0.938/1.000 | 0.7528 | **-** |
|  | GCTCTGATCCTCTGACACTGG |  |  |  | 20/7 | 231-263 | 0.529/0.600 | 0.6556 | **-** |
| ***Soc*920** | CAGAGTTTTGAGTTTCGACAGG | (AC)24 | 279 | JQ235318 | 20/14 | 283-315 | 0.895/0.800 | 0.1994 | **-** |
|  | CAGCTCTGCAGGTCTGAGG |  |  |  | 20/13 | 255-315 | 0.874/0.750 | 0.2566 | **-** |
| ***Soc*921** | CACGTGTGTCCTTTCTGTCC | (AC)24 | 214 | JQ235319 | 20/18 | 209-247 | 0.947/0.950 | 0.3028 | **-** |
|  | CAGCAACTGGATGACTTCTGG |  |  |  | 20/14 | 205-239 | 0.890/0.700 | 0.0047 | **N** |
| ***Soc*922** | AAATCAGACACGTGGTGAAGG | (TG)103bp(GA)8 | 175 | JQ235320 | 18/8 | 191-209 | 0.816/0.722 | 0.3491 | **-** |
|  | CCTTTTGTCCCACCCTTAGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*923** | GCTAAGGGTGGGACAAAAGG | (GT)1341bp(AC)6 | 156 | JQ235321 | 20/11 | 176-214 | 0.850/0.700 | 0.1628 | **-** |
|  | AGACACTCTGCGGGAGAAGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*924** | TGCTAACATGCACTCCTTGC | (AC)16 | 235 | JQ235322 | 20/12 | 249-275 | 0.896/0.600 | 0.0006 | **N** |
|  | GTCAGAGTACCTCTTGTGAATAACC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*925** | TAATAAATGGGCTGCAAAGC | (TG)8 | 287 | JQ235323 | 20/2 | 310-312 | 0.142/0.150 | 1.0000 | **-** |
|  | CCGCGAAGAGATATTTCAGG |  |  |  | 20/8 | 349-367 | 0.840/0.750 | 0.3794 | **-** |
| ***Soc*926** | CTGGTTCCTGCTTCACAACC | (AC)52bp(AC)12 | 104 | JQ235324 | 20/3 | 114-122 | 0.655/0.550 | 0.2359 | **-** |
|  | GCCTTTATTGATGCCTGTGG |  |  |  | 20/1 | 94 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*927** | ATGGAGAAAACCCTGTGTGG | (AC)20 | 166 | JQ235325 | 20/8 | 171-193 | 0.827/0.800 | 0.3650 | **-** |
|  | CAATGTGGTTCTGGTTCTGG |  |  |  | 20/17 | 169-221 | 0.903/0.800 | 0.0763 | **-** |
| ***Soc*929** | ATTGCCACAGGAATTTGTCC | (CA)7 | 297 | JQ235326 | 20/6 | 318-332 | 0.631/0.550 | 0.1450 | **-** |
|  | ACAGCACGTCAGTCAACAGG |  |  |  | 20/9 | 314-334 | 0.810/0.950 | 0.2400 | **-** |
| ***Soc*930** | GAGATAGAACGCTTCCTCTTGC | (AC)7 | 92 | JQ235327 | 20/2 | 110-112 | 0.296/0.250 | 0.4738 | **-** |
|  | TTCCCGGTGATTAGTTGTGG |  |  |  | 20/1 | 113 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*931** | CCTGAGTCCTGGAGACATCC | (AC)11 | 158 | JQ235328 | 20/4 | 177-183 | 0.571/0.450 | 0.3094 | **-** |
|  | GCACTGAGGAAATAGAAAGATGC |  |  |  | 20/4 | 182-204 | 0.146/0.150 | 1.0000 | **-** |
| ***Soc*932** | TCTGCACCGGTGTCTCAATA | (ATG)10 | 219 | JQ235329 | 20/4 | 240-249 | 0.558/0.550 | 0.8094 | **-** |
|  | GACAGACAGCTCCTGTTAGCAA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*933** | CCATACAAGGCCACTCTTTCC | (AC)115bp(CA)5 | 148 | JQ235330 | 20/5 | 170-178 | 0.524/0.600 | 1.0000 | **-** |
|  | TTCCAAACATTAGCCAACAGC |  |  |  | 20/9 | 148-172 | 0.808/0.850 | 0.4484 | **-** |
| ***Soc*935** | CCTGACAAGTCCCACTGTCC | (TG)29(AG)6 | 262 | JQ235331 | 20/16 | 244-312 | 0.923/0.900 | 0.3900 | **-** |
|  | AAGTGTTATCTCATCAGGGATGC |  |  |  | 20/1 | 210 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*936** | ACAAATGCTTGTGTGCAACC | (TG)527bp(GT)9 | 142 | JQ235332 | 20/6 | 163-171**\*** | 0.660/0.600 | 0.2953 | **-** |
|  | TTCTCTGTGGGATCCTTTGG |  |  |  | 20/3 | 140-144 | 0.312/0.250 | 0.1203 | **-** |
| ***Soc*937** | AACTGCTCAGTTGTTCATCAGG | (AC)34 | 232 | JQ235333 | 20/22 | 215-268**\*** | 0.945/0.600 | **0.0000** | **N** |
|  | CCTGCTGGTTCTTTTGATGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*940** | GCAGATCAGGAGTTGAGTGG | (CCT)14 | 180 | JQ235334 | 20/5 | 184-205 | 0.658/0.700 | 0.1375 | **-** |
|  | CTGGAAGTTGGCTGATGACC |  |  |  | 20/3 | 164-176 | 0.229/0.150 | 0.2472 | **-** |
| ***Soc*941** | TTCCAGGAAAACCACACTCC | (CA)19 | 238 | JQ235335 | 20/21 | 238-306 | 0.959/0.900 | 0.1453 | **-** |
|  | TCTACCAAAACAAGCTCACTGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*942** | AATACTCGCGCACATACAGG | (CA)627bp(CA)5 | 255 | JQ235336 | 20/2 | 307-309 | 0.050/0.050 | 1.0000 | **-** |
|  | GTGTGCATGCATTCTAGACG |  |  |  | 20/2 | 302-304 | 0.142/0.150 | 1.0000 | **-** |
| ***Soc*943** | TGCTCTTCGGTGACCTCATAC | (GT)11 | 241 | JQ235337 | 20/6 | 261-271 | 0.706/0.750 | 0.8556 | **-** |
|  | TCAGCCATCATCCATACTGC |  |  |  | 20/1 | 269 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*944** | CAAGCTGCTGCATTGATTTAAC | (GT)6 | 242 | JQ235338 | 20/4 | 256-266 | 0.668/0.300 | 0.0016 | **N,S** |
|  | TTTGGAAGCTGAATATCTTTGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*945** | TCATGATCATTTACACTGTGCTGC | (AC)9 | 152 | JQ235339 | 20/3 | 170-174 | 0.337/0.150 | 0.0078 | **N,S** |
|  | TTTGATGGTGGTGTCGAATG |  |  |  | 20/11 | 172-194 | 0.888/0.900 | 0.7472 | **-** |
| ***Soc*946** | AGCCCCTTTGTTCACATTTC | (CA)51bp(AC)5 | 234 | JQ235340 | 20/4 | 243-255 | 0.512/0.500 | 0.2528 | **-** |
|  | CTGCCAGGGGAAGTAGGTG |  |  |  | 20/3 | 198-202 | 0.145/0.150 | 1.0000 | **-** |
| ***Soc*947** | ATGAGACGATTCGCCAGATG | (CA)7 | 175 | JQ235341 | 20/2 | 189-195 | 0.050/0.050 | 1.0000 | **-** |
|  | ATGGACTAAATGGCGAGTGC |  |  |  | 19/5 | 201-209 | 0.570/0.526 | 0.1959 | **-** |
| ***Soc*948** | GTGTGCGCACGAGTGTTAAG | (TG)7 | 247 | JQ235342 | 20/1 | 268 | 0.000/0.000 | 1.0000 | **-** |
|  | ATGCAACATCTGTGCAATGG |  |  |  | 20/2 | 269-273 | 0.050/0.050 | 1.0000 | **-** |
| ***Soc*949** | GACACAGTGGTGGCTGACTG | (TG)13 | 200 | JQ235343 | 20/7 | 222-236 | 0.769/0.700 | 0.4584 | **-** |
|  | TGAGGCTGGTTACCCTCAAGG |  |  |  | 20/2 | 211-215 | 0.142/0.150 | 1.0000 | **-** |
| ***Soc*950** | TCAAACAAGGCTGCTCACTC | (CA)10 | 161 | JQ235344 | 20/9 | 182-230 | 0.572/0.500 | 0.2644 | **-** |
|  | GTGCCTGGAGGAAAGACATC |  |  |  | 20/2 | 130-132 | 0.142/0.150 | 1.0000 | **-** |
| ***Soc*951** | TCAAAGATGACAAATGAATGACC | (GT)12 | 245 | JQ235345 | 20/8 | 259-283 | 0.699/0.600 | 0.0906 | **-** |
|  | AGTGTTGATGGACTTGGATGG |  |  |  | 20/4 | 223-233 | 0.442/0.500 | 0.3363 | **-** |
| ***Soc*952** | GCTATCCTGACATGCCCTTG | (AC)24 | 219 | JQ235346 | 20/16 | 211-263 | 0.924/0.750 | 0.0156 | **N** |
|  | ATGCCATTTGTTTCCCTGAGC |  |  |  | 20/7 | 199-231 | 0.817/0.450 | 0.0016 | **N** |
| ***Soc*955** | TGAGTTGGAGGACCTGTGAG | (TC)544bp(AC)13 | 217 | JQ235347 | 20/11 | 235-277 | 0.888/0.900 | 0.8206 | **-** |
|  | ACCCTTCTGCTCATCGTCAC | 2bp(AC)6 |  |  | 20/4 | 223-231 | 0.622/0.400 | 0.0559 | **N,S** |
| ***Soc*959** | TTGTCCTTCCAACTGGTTCC | (TG)5 | 220 | JQ235348 | 20/1 | 243 | 0.000/0.000 | 1.0000 | **-** |
|  | GCAATCTTCACATTCACG |  |  |  | 20/4 | 204-216 | 0.717/0.650 | 0.0053 | **-** |
| ***Soc*960** | AAGAGAAACAAGGACCGAACC | (GT)13 | 152 | JQ235349 | 20/7 | 168-190 | 0.768/0.300 | **0.0000** | **N** |
|  | AAACACTCATCCTCTCATCC |  |  |  | 14/4 | 166-182 | 0.550/0.571 | 0.6234 | **-** |
| ***Soc*962** | GACGACAGGTGTGACAGTGG | (CTC)6 | 150 | JQ235350 | 20/3 | 169-175 | 0.145/0.050 | 0.0250 | **N** |
|  | CATCTTCCTCAGAGCCAGACC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*963** | CCGGATTATTCAACTTCACG | (TG)6 | 228 | JQ235351 | 20/2 | 249-269 | 0.050/0.050 | 1.0000 | **-** |
|  | CCCTTGTCCTGCATTTAACC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*964** | CCACTTCCCTGCATTTTCC | (CA)12 | 181 | JQ235352 | 20/9 | 201-223 | 0.474/0.500 | 0.8066 | **-** |
|  | CTCCTGGAGCTTGTAGTCTGC |  |  |  | 20/1 | 182 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*965** | CTGCTCTGACTGGGACAAGG | (TG)76bp(TG)­5 | 249 | JQ235353 | 20/5 | 263-275 | 0.729/0.850 | 0.6088 | **-** |
|  | CGACAGTATGTTGACACATCTATGC |  |  |  | 20/9 | 267-295 | 0.765/0.700 | 0.0778 | **-** |
| ***Soc*966** | GCACCAGCTTGAGTTACAGC | (GT)42bp(GT)3 | 159 | JQ235354 | 20/1 | 182 | 0.000/0.000 | 1.0000 | **-** |
|  | GGCAACATGTTCATCAGTCC |  |  |  | 20/2 | 185-195 | 0.142/0.150 | 1.0000 | **-** |
| ***Soc*967** | TCGCTGATGTGTCTCTACGG | (TG)514bp(TG)17 | 150 | JQ235355 | 20/9 | 164-194 | 0.872/0.850 | 0.8475 | **-** |
|  | TCATGACACACTGATTATAGACG |  |  |  | 20/4 | 164-174 | 0.433/0.450 | 1.0000 | **-** |
| ***Soc*968** | TGCAAAGTAAAGACATAATCCTTCC | (CA)13 | 135 | JQ235356 | 20/7 | 145-161 | 0.773/0.450 | 0.0022 | **N** |
|  | CATGGTTGCTCGTAGATTGG |  |  |  | 20/1 | 130 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*970** | GGGCAGATATTTGGCAAAGG | (TG)10 | 246 | JQ235357 | 20/5 | 262-274 | 0.601/0.700 | 0.3588 | **-** |
|  | ATTTGAGGGTGTTTGCATCC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*971** | AAATGCAGACAAACACACAAGC | (GT)9 | 190 | JQ235358 | 20/6 | 204-226 | 0.519/0.500 | 0.6163 | **-** |
|  | TCAGTGGGGATCAATGAAGG |  |  |  | 20/3 | 180-202 | 0.145/0.150 | 1.0000 | **-** |
| ***Soc*973** | TCTTCATCCTGCTGTGAGTCC | (CA)13 | 169 | JQ235359 | 20/13 | 187-225 | 0.908/0.950 | 0.3031 | **-** |
|  | CAGACAAAACTGGAAAATACAGAGG |  |  |  | 20/19 | 168-246 | 0.940/0.700 | 0.0028 | **N** |
| ***Soc*974** | TGAGGTGCGTTCACAGTCC | (AAC)5 | 172 | JQ235360 | 20/2 | 190-193 | 0.508/0.600 | 0.6550 | **-** |
|  | TGACAGGTGGGTTCATCAGG |  |  |  | 20/2 | 155-158 | 0.185/0.200 | 1.0000 | **-** |
| ***Soc*975** | AAGGACAGAAGGACACACACG | (AC)2035bp(CA)6 | 201 | JQ235361 | 20/8 | 204-224 | 0.797/0.700 | 0.2175 | **-** |
|  | CCACCTCCCTGGAAACTATACC |  |  |  | 17/5 | 190-210 | 0.704/0.588 | 0.3503 | **-** |
| ***Soc*976** | AACACCAACCGTAGAATGTGC | (AC)9 | 197 | JQ235362 | 20/3 | 218-222 | 0.309/0.350 | 1.0000 | **-** |
|  | CTGGTGATTGCCATAAGTGG |  |  |  | 20/11 | 206-234 | 0.881/0.800 | 0.5675 | **-** |
| ***Soc*978** | ACACCTCGCTCCCTCTTAGC | (TG)5 | 209 | JQ235363 | 20/8 | 229-243 | 0.756/0.700 | 0.6106 | **-** |
|  | GGTGGAGCAACACAAACACC |  |  |  | 20/13 | 228-272 | 0.901/0.650 | 0.0100 | **N** |
| ***Soc*979** | TGCTGACACATCAGTTACACTCC | (GT)9 | 292 | JQ235364 | 19/3 | 313-317 | 0.556/0.684 | 0.0222 | **-** |
|  | CATATATCCCTTGGTCTGTGTGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*983** | CCGCTAACAAGCTACAGCAG | (AC)31 | 158 | JQ235365 | 20/21 | 146-218 | 0.956/0.950 | 0.3084 | **-** |
|  | GAAGGAACCAAAACCCACAG |  |  |  | 20/7 | 131-161 | 0.536/0.600 | 0.8481 | **-** |
| ***Soc*985** | CCCCTCCTGTCTATCTTCTCC | (CTC)8 | 198 | JQ235366 | 20/3 | 216-222 | 0.376/0350 | 0.6725 | **-** |
|  | CAATCTGCCGTCATTAGAGC |  |  |  | 20/5 | 212-224 | 0.691/0.500 | 0.0350 | **-** |
| ***Soc*987** | CACCACATTATCGACACAAAGG | (AC)7 | 239 | JQ235367 | 20/6 | 259-275 | 0.674/0.700 | 0.0028 | **-** |
|  | TGGGTTCTATGCAAAAGTGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*988** | AGTCACATGAACAGCAAAACG | (CA)26 | 235 | JQ235368 | 20/17 | 216-264 | 0.936/0.950 | 0.7972 | **-** |
|  | GACAATGTGCATGAAACAAGC |  |  |  | 20/1 | 216 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*989** | ACAGCACGAGACACTGAAGC | (AC)15 | 225 | JQ235369 | 20/9 | 229-265 | 0.837/0.800 | 0.3119 | **-** |
|  | CTTCACCTGTCGACATCACC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*991** | GGGCTTCTATGTACACACTCACG | (TC)732bp(CA)12 | 281 | JQ235370 | 20/7 | 215-231 | 0.747/0.800 | 0.8394 | **-** |
|  | AATGGTCCTTGGTTGTCAGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*992** | TGGGTTCATTGACAGAGTGTG | (GT)19 | 217 | JQ235371 | 20/12 | 220-270 | 0.876/0.450 | **0.0000** | **N** |
|  | TGATGTGGCTGCTTCCTAGA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*993** | ATACAAACAGACGGGCTTCG | (CA)6 | 192 | JQ235372 | 20/3 | 212-216 | 0.268/0.300 | 1.0000 | **-** |
|  | TCAACCCACGCAGATAATCA |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*994** | CAAAGATAACCAGACACCAGAGG | (TG)11 | 158 | JQ235373 | 20/10 | 180-218 | 0.835/0.750 | 0.6713 | **-** |
|  | GCTTATATCTACGTCTATGCACACG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*995** | TCTTGATTGAATCCCCTTTTG | (TG)142bp(TG)13 | 217 | JQ235374 | 20/16 | 210-250 | 0.947/0.900 | 0.3097 | **-** |
|  | CAATTTGCTTGCCATACATATTTT |  |  |  | 20/3 | 210-216 | 0.099/0.100 | 1.0000 | **-** |
| ***Soc*998** | GGTCAGTGCAGATCAACAGG | (CA)9 | 187 | JQ235375 | 20/3 | 207-211 | 0.381/0.400 | 0.6900 | **-** |
|  | TGAAAGACCACCAGAGTAAATCC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*999** | GTATGGTGGAGCATGTCTGG | (CA)23 | 184 | JQ235376 | 20/12 | 196-252 | 0.919/0.750 | 0.1156 | **N** |
|  | GATGACTCCCAGATGTTTTATGG |  |  |  | 20/19 | 184-254 | 0.941/0.900 | 0.2572 | **-** |
| ***Soc*1000** | GAAGGGTCACAAGCCAAAAG | (TG)6 | 230 | JQ235377 | 20/2 | 252-260 | 0.142/0.150 | 1.0000 | **-** |
|  | TGACAGGCTGCTCACAGAAA |  |  |  | 20/1 | 240 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1002** | TGAAATATCGTGTTGTCACAGATG | (GT)7 | 226 | JQ235378 | 20/4 | 249-255 | 0.586/0.450 | 0.4697 | **-** |
|  | TATCGCGACATACATCAACG |  |  |  | 20/6 | 256-272 | 0.678/0.500 | 0.0197 | **-** |
| ***Soc*1003** | GGTGGTAGCGTCGTTGTAGC | (AC)8 | 195 | JQ235379 | 20/5 | 212-222 | 0.712/0.250 | **0.0000** | **N,S** |
|  | ATGATGCGTGGAGAGACAGC |  |  |  | 18/2 | 168-172 | 0.246/0.278 | 1.0000 | **-** |
| ***Soc*1005** | GGAAGTCATGGGGTTAATGC | (TG)5 | 182 | JQ235380 | 20/1 | 205 | 0.000/0.000 | 1.0000 | **-** |
|  | TGGACAAACACAAATGAATGG |  |  |  | 20/2 | 205-207 | 0.328/0.100 | 0.0091 | **N,S** |
| ***Soc*1006** | TGTTTGTCCACTGTAATTCAAACC | (ACTC)7(CA)8 | 205 | JQ235381 | 20/4 | 220-228 | 0.664/0.600 | 0.9409 | **-** |
|  | CAGGGGTGCAGACAAAGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1007** | GGCAGTCCATGATGTCACC | (AC)15 | 217 | JQ235382 | 20/17 | 237-287 | 0.946/0.900 | 0.1125 | **-** |
|  | CCGCTCATATTTCACACTCC |  |  |  | 20/1 | 227 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1008** | TTGATTTACAGACAGATTTATCAGC | (TG)18 | 217 | JQ235383 | 20/10 | 234-254 | 0.871/0.650 | 0.0063 | **-** |
|  | GAGTGTGTCAACACATTTATTTCC |  |  |  | 20/1 | 231 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1009** | CCTGCTCCAGAGCTGCAC | (CA)1331bp(ATG)5 | 189 | JQ235384 | 20/6 | 196-214 | 0.633/0.500 | 0.5156 | **N** |
|  | TCAACGATCAAGCATCAAGC |  |  |  | 20/1 | 192 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1011** | ACAGCACAGCAGAACAGACG | (TG)11 | 236 | JQ235385 | 20/9 | 256-282 | 0.823/0.550 | 0.0269 | **N** |
|  | ACTCCATCCAGGTTTGAACG |  |  |  | 20/11 | 255-275 | 0.853/0.650 | 0.0497 | **N** |
| ***Soc*1012** | AGTGTCGGAGCACATCAGC | (TG)13 | 234 | JQ235386 | 20/13 | 256-284 | 0.900/0.850 | 0.2475 | **-** |
|  | AGTGTCGCTCCAATCAGAGG |  |  |  | 20/11 | 224-258 | 0.878/0.800 | 0.2413 | **-** |
| ***Soc*1015** | AGAATCCAGGAGTTTGACTCG | (AC)14 | 143 | JQ235387 | 20/12 | 142-178 | 0.822/0.850 | 0.0594 | **-** |
|  | CCTTCTGGACTTTGCTCTGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1016** | ACTCCATTCATGCCATCTCC | (AC)17 | 216 | JQ235388 | 20/13 | 245-277 | 0.891/0.950 | 0.9788 | **-** |
|  | TGCAGCTGACACTAAACAAGG |  |  |  | 20/3 | 235-239 | 0.229/0.150 | 0.2419 | **-** |
| ***Soc*1017** | GAGATTGACAGGGGACAAGC | (CA)10 | 191 | JQ235389 | 20/4 | 213-219 | 0.235/0.150 | 0.0616 | **-** |
|  | TCAGAAATCAAGAGGCTCAGG |  |  |  | 20/1 | 208 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1020** | TTCTTTGTCAGCCTGGTTCC | (CA)24 | 314 | JQ235390 | 20/16 | 324-362 | 0.895/0.850 | 0.3150 | **-** |
|  | CATAGAGGCAGGCAGTGAGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1022** | CTATGGTGTTGGTGCAGACG | (TC)12 | 285 | JQ235391 | 20/6 | 296-312 | 0.791/0.900 | 0.1403 | **-** |
|  | ACCTTCTGGGAGCTGATGG |  |  |  | 20/3 | 286-292 | 0.522/0.400 | 0.2394 | **-** |
| ***Soc*1025** | ATGTTTGGAGCAGTGTTTGG | (TG)751bp(TG)5 | 358 | JQ235392 | 20/3 | 380-384 | 0.445/0.450 | 0.4638 | **-** |
|  | CTACCTCAAGGGGACAGAGG |  |  |  | 20/1 | 372 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1026** | GAATCGCAAATCACCACTAATAAC | (CA)6 | 299 | JQ235393 | 20/6 | 319-339 | 0.468/0.400 | 0.0863 | **-** |
|  | TGTCCATGGGCAAGATACTG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1027** | CGACAGCCTTGAAAGTCAGC | (GT)15 | 178 | JQ235394 | 20/14 | 188-222 | 0.912/0.950 | 0.8591 | **-** |
|  | CCTGGACTGTCGCTCCAAC |  |  |  | 20/6 | 196-208 | 0.663/0.900 | 0.0563 | **-** |
| ***Soc*1029** | CGTCACACAGCAAACATGC | (GT)55 | 312 | JQ235395 | 19/15 | 238-326 | 0.882/0.842 | 0.1506 | **-** |
|  | GGCGATAACACAGGTTCTCC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1031** | CAAACCTCGAATCTTCACACC | (GTAT)4 | 223 | JQ235396 | 20/3 | 242-244**\*** | 0.512/0.550 | 0.6131 | **-** |
|  | TCCAGTGGAACCTCAACTCC |  |  |  | 20/5 | 240-249**\*** | 0.708/0.750 | 0.8853 | **-** |
| ***Soc*1032** | GCCCTCATCCATTCATTCC | (TG)121bp(GT)20 | 306 | JQ235397 | 20/18 | 286-340 | 0.944/1.000 | 1.0000 | **-** |
|  | GGAAGGACCCATTCATGTCC |  |  |  | 20/1 | 274 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1033** | CTCTTTCTTTCTGCATCATTGG | (TG)11 | 139 | JQ235398 | 20/6 | 153-165 | 0.726/0.650 | 0.2244 | **-** |
|  | CCTGGTGTCACCTCTGTGG |  |  |  | 20/1 | 144 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1034** | TGAGCCAGCATGGTAGAGG | (TG)115bp(GT)13 | 293 | JQ235399 | 20/17 | 288-326 | 0.906/0.750 | 0.0678 | **-** |
|  | CGAACTAACAGATCATCAAATCG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1035** | ATGGCACTGTGTGAAAATGG | (TG)23 | 138 | JQ235400 | 20/9 | 155-171 | 0.876/0.800 | 0.4725 | **-** |
|  | ACTCATGAGAGTGCCCTTGG |  |  |  | 20/1 | 129 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1036** | AGGCTGCACAATCAGAGACC | (TG)6 | 372 | JQ235401 | 20/1 | 397 | 0.000/0.000 | 1.0000 | **-** |
|  | GGGAAACCACTGTTTAATCACC |  |  |  | 20/3 | 370-388 | 0.478/0.350 | 0.2534 | **-** |
| ***Soc*1037** | AGCCCTCTAACCCTTGTTCC | (TG)28 | 141 | JQ235402 | 20/11 | 133-167 | 0.873/0.650 | 0.1047 | **N** |
|  | GTCTTGTTTGGCTTGTCACG |  |  |  | 20/2 | 125-127 | 0.431/0.300 | 0.2947 | **-** |
| ***Soc*1038** | AAAAGTTTGTTGGCAGACTATGG | (CA)8 | 313 | JQ235403 | 20/2 | 310-314 | 0.050/0.050 | 1.0000 | **-** |
|  | GCCAGCACTGACAGAAGTAGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1040** | TGCTTTGTCACACATGAACG | (CA)6103bp(CA)26 | 317 | JQ235404 | 20/10 | 308-350 | 0.872/0.800 | 0.6350 | **-** |
|  | CTGCTGGACAGACTCACTGG |  |  |  | 19/11 | 298-332 | 0.858/0.842 | 0.3781 | **-** |
| ***Soc*1041** | TGCCATCTGGAAACTGACC | (AC)87bp(CA)5 | 326 | JQ235405 | 20/6 | 348-360 | 0.706/0.800 | 0.9884 | **-** |
|  | ATGGAAAGGTCCCATTACCC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1042** | GTTCCTGGTGGAACAACTCG | (AC)13 | 321 | JQ235406 | 20/5 | 324-348 | 0.632/0.700 | 0.2906 | **-** |
|  | TGACCTCTGTGACCTGAGTCC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1043** | CTTTAGGAAAGGGTGCTTGG | (AGAA)6 | 320 | JQ235407 | 20/5 | 290-342**\*** | 0.665/0.650 | 0.0509 | **-** |
|  | ATGTGTGTTTCCTGCTGAGG |  |  |  | 20/3 | 235-241**\*** | 0.456/0.500 | 1.0000 | **-** |
| ***Soc*1044** | AGAGTTGGATGCTGACACTGG | (TG)133bp(GT)9 | 261 | JQ235408 | 20/9 | 283-301 | 0.704/0.700 | 0.4038 | **-** |
|  | GTGTTGCTCCCTTTCTCTCG | 58bp(TG)5 |  |  | 20/9 | 336-360 | 0.790/0.750 | 0.6906 | **-** |
| ***Soc*1046** | AGTTTGAGGCAATATCAAAAAGC | (TG)9 | 212 | JQ235409 | 20/5 | 235-243 | 0.478/0.500 | 1.0000 | **-** |
|  | TTCAGTGATTGCCAGTGTGG |  |  |  | 20/7 | 229-243 | 0.535/0.450 | 0.3041 | **-** |
| ***Soc*1047** | GCACCAGCTGACGAATGG | (CA)8 | 145 | JQ235410 | 20/3 | 164-172 | 0.396/0.500 | 0.6494 | **-** |
|  | GTGCCTGCTATGGAAAGTGG |  |  |  | 20/10 | 163-181 | 0.864/0.900 | 0.1353 | **-** |
| ***Soc*1048** | TTTTCCCTTACGCACAAGC | (CA)64bp(CA)9 | 217 | JQ235411 | 20/6 | 200-224 | 0.724/0.800 | 0.8534 | **-** |
|  | GAGCAGCTCACAGTTGAAGG |  |  |  | 20/9 | 200-226 | 0.674/0.800 | 0.9028 | **-** |
| ***Soc*1050** | TTTTATTCCATTCTTTTTACATCACG | (GT)17 | 253 | JQ235412 | 20/22 | 279-369 | 0.953/0.900 | 0.2984 | **-** |
|  | GGATTCAGACCTGGCTGACC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1051** | CACACAGCTGAGGTTTCTGG | (CA)321bp(AC)5 | 282 | JQ235413 | 20/23 | 269-326**\*** | 0.962/0.800 | 0.0003 | **N** |
|  | TTGCTGTGAACAACCTGACC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1052** | CAACCTCGTCAACCAGAAGG | (CA)29 | 293 | JQ235414 | 20/24 | 275-355 | 0.967/0.950 | 0.5566 | **-** |
|  | TGTTTGCTACCTGTGTCATGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1054** | TGAACGTAGCGTGGACAGG | (TC)9 | 310 | JQ235415 | 20/3 | 327-335 | 0.529/0.700 | 0.1700 | **-** |
|  | AACTATGTGCCAGGGTGAGC |  |  |  | 20/1 | 327 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1056** | AGTGACACCTGCAAAGTGACC | (CA)523bp(TG)9 | 214 | JQ235416 | 20/9 | 230-248 | 0.804/0.900 | 0.9575 | **-** |
|  | ATGTAGCGCGCTCAAGTCC | 61bp(GT)9 |  |  | 20/6 | 220-232 | 0.774/0.750 | 0.1831 | **-** |
| ***Soc*1057** | CTCTGAAGAAGACGCAGAGC | (AC)44 | 269 | JQ235417 | 20/24 | 234-320 | 0.965/0.850 | 0.0131 | **N** |
|  | CAAATGACGAGTGACACAAGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1058** | TGGATCTGGTCTGGATCACC | (AC)61bp(CA)12 | 347 | JQ235418 | 19/18 | 340-398 | 0.935/0.842 | 0.1638 | **-** |
|  | AACCGTGGATGATTGACAGC | 167bp(CA)19 |  |  | 19/14 | 322-350 | 0.927/0.789 | 0.1669 | **-** |
| ***Soc*1059** | TGGTGTCCTCACTCATCTGC | (CA)6 | 313 | JQ235419 | 17/5 | 332-342 | 0.740/0.706 | 0.3666 | **-** |
|  | CTAATTGTGCCTTTTCCATGC |  |  |  | 20/1 | 348 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1060** | CGTCCCTTCATGAACATCTG | (GT)26 | 218 | JQ235420 | 20/21 | 231-281 | 0.960/0.900 | 0.2844 | **-** |
|  | ACACCACCTTGTCCGAAAAC |  |  |  | 20/1 | 203 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1061** | ATTCAAACTGTGGGCAGAGC | (GT)13 | 334 | JQ235421 | 20/8 | 345-363 | 0.818/0.600 | 0.0081 | **N** |
|  | TCCGTCCGTGTCTCTTTAGC |  |  |  | 20/7 | 345-361 | 0.772/0.400 | **0.0000** | **N,S** |
| ***Soc*1062** | TTGATTTTGAGCGACTGAGC | (GT)7 | 151 | JQ235422 | 20/4 | 175-183 | 0.433/0.200 | 0.0047 | **N** |
|  | TCAGCTACATCAAAGCAACG |  |  |  | 20/15 | 152-202 | 0.912/0.800 | 0.2556 | **-** |
| ***Soc*1063** | GGCTGTCCCCATTACTGC | (AC)12 | 166 | JQ235423 | 20/7 | 171-205 | 0.399/0.450 | 1.0000 | **-** |
|  | TCAGCACCAGTAAACCTTGG |  |  |  | 20/1 | 166 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1064** | AAAAAGCAAATGCAATAACTACAGG | (AC)23 | 374 | JQ235424 | 20/17 | 379-411 | 0.953/0.900 | 0.3738 | **-** |
|  | AGGAGACAGGGATGAATAGGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1065** | AGATGAGGCGAGGGAAGG | (GT)1143bp(TG)592bp | 357 | JQ235425 | 20/16 | 360-402 | 0.932/0.950 | 0.8484 | **-** |
|  | TCTCCAATCTGTCGTGATGC | (GAT)6(GGT)7(TG)15 |  |  | 20/16 | 370-416 | 0.910/0.800 | 0.3116 | **-** |
| ***Soc*1066** | CCACCATTGTTCCCTTTCC | (CA)67bp(AC)6 | 163 | JQ235426 | 20/2 | 183-185 | 0.224/0.250 | 1.0000 | **-** |
|  | TTCCTTGAAGAGGCAAGAGC |  |  |  | 20/2 | 168-176 | 0.097/0.100 | 1.0000 | **-** |
| ***Soc*1067** | GGGCCCTGTTTCTGTTACG | (GT)66bp(GA)5 | 108 | JQ235427 | 20/2 | 127-129 | 0.296/0.150 | 0.0700 | **-** |
|  | TTTCATCCCTCGTCGTATGG |  |  |  | 20/12 | 127-153 | 0.821/1.000 | 0.6222 | **-** |
| ***Soc*1068** | ATCCAACCAAAGACAAACACC | (TG)63bp(GA)10 | 140 | JQ235428 | 20/6 | 159-169 | 0.612/0.700 | 0.7522 | **-** |
|  | TGACTTGAGGAACTCCAGAGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1069** | CAGAGAGCAGCTACCACACG | (CA)15 | 207 | JQ235429 | 20/19 | 220-266 | 0.958/0.950 | 0.6819 | **-** |
|  | CGGGAACAGATGGAGTAACG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1070** | ATGGCTGCAGACTCTTCTCC | (GT)13 | 167 | JQ235430 | 20/25 | 163-243**\*** | 0.967/0.950 | 0.5544 | **-** |
|  | GCAGCAGTTACTGTTCGCTTC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1071** | GTATGTGCGGCCTGTATGC | (TG)23 | 95 | JQ235431 | 20/23 | 103-183 | 0.969/0.800 | 0.0053 | **N** |
|  | TCAAAGTCAAAACAGAGGAGAGG |  |  |  | 20/13 | 93-129 | 0.864/0.750 | 0.0328 | **-** |
| ***Soc*1072** | AATGTTTGTGCAAGGCTTCAG | (TG)10(GT)8 | 332 | JQ235432 | 20/13 | 350-377**\*** | 0.888/0.600 | 0.0003 | **N** |
|  | CCGACACTTTTGTTGTCGTG |  |  |  | 20/14 | 334-359**\*** | 0.918/0.700 | 0.0109 | **N** |
| ***Soc*1073** | GATTCCCTCATCCTGTTTCG | (TG)5 | 269 | JQ235433 | 20/2 | 283-291 | 0.050/0.050 | 1.0000 | **-** |
|  | TAAATCCCCCATGACTGAGC |  |  |  | 20/1 | 294 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1075** | AACCTGCATGTGAGTGAACG | (AC)15 | 112 | JQ235434 | 20/11 | 122-154 | 0.831/0.750 | 0.5844 | **-** |
|  | ACTTTGCAGTGTGCACTTGG |  |  |  | 20/6 | 127-141 | 0.722/0.650 | 0.2622 | **-** |
| ***Soc*1076** | TGATTAATGCTCTTAATTCCTCTCC | (AC)134bp(AC)27 | 182 | JQ235435 | 20/19 | 162-228**\*** | 0.931/0.850 | 0.0141 | **-** |
|  | CGAAGGCTTTTAGTGTCTAGTGG |  |  |  | 20/16 | 141-191 | 0.944/0.950 | 0.5031 | **-** |
| ***Soc*1078** | ATGGCGAATGTCATCAACC | (TG)5 | 193 | JQ235436 | 20/3 | 208-216 | 0.273/0.200 | 0.1622 | **-** |
|  | AGAGCAGGTTTTGCTTCTGG |  |  |  | 20/1 | 216 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1079** | AATTTACCACCTGGCAGAGC | (TG)12 | 239 | JQ235437 | 20/5 | 234-264 | 0.623/0.550 | 0.4019 | **-** |
|  | TCATTGTCCTTTCCCTTTGG |  |  |  | 20/2 | 208-222 | 0.481/0.450 | 1.0000 | **-** |
| ***Soc*1080** | AAATGTTATGAGGGCGATCC | (TG)9 | 307 | JQ235438 | 20/4 | 326-334 | 0.345/0.400 | 1.0000 | **-** |
|  | GAACAGGTTTGGGAAATTGG |  |  |  | 19/4 | 289-309 | 0.246/0.211 | 0.1609 | **-** |
| ***Soc*1081** | ATCCTCACACTCCCTCATGG | (GT)21 | 299 | JQ235439 | 20/20 | 338-388 | 0.965/1.000 | 1.0000 | **-** |
|  | CTGGCAACCCAGTGATAAGG |  |  |  | 20/8 | 262-282 | 0.758/0.800 | 0.0234 | **-** |
| ***Soc*1082** | AGGAGCCTCTCACTACCAACC | (GT)17 | 139 | JQ235440 | 20/12 | 146-172 | 0.899/1.000 | 0.9694 | **-** |
|  | GCAGTGATACTATTTCATTGTCTTAGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1083** | CGAACACTGCGCATTATAGC | (AC)18 | 279 | JQ235441 | 20/8 | 294-318 | 0.819/0.950 | 0.7919 | **-** |
|  | AGCTGTGAAAATGAACCAAGC |  |  |  | 20/2 | 265-275 | 0.097/0.100 | 1.0000 | **-** |
| ***Soc*1084** | CACACAAGCACCATCTCTGG | (CA)8 | 252 | JQ235442 | 20/3 | 272-276 | 0.232/0.250 | 1.0000 | **-** |
|  | GAAGTGGAGAGCCTCACTGG |  |  |  | 20/1 | 271 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1085** | GCAGGTGGAGAAAGAGACTTACC | (AC)1016bp(AC)6 | 142 | JQ235443 | 20/4 | 154-164 | 0.517/0.450 | 0.3403 | **-** |
|  | TCAGTCTGCAGCTATGTGTGG |  |  |  | 20/3 | 153-157 | 0.396/0.350 | 0.2613 | **-** |
| ***Soc*1087** | TTCCAGGGGCGTATTTAGC | (AC)27 | 287 | JQ235444 | 20/19 | 208-344 | 0.951/0.900 | 0.1334 | **-** |
|  | AACCTCCTCCTGAAACATGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1088** | ATGTGAATGCATCCGAGTCC | (CTG)538bp(GA)11 | 306 | JQ235445 | 20/26 | 307-376 | 0.978/0.950 | 0.1091 | **-** |
|  | GATGATCCAAACAGGAAATTGG | 366bp(GT)32 |  |  | 20/11 | 283-309 | 0.754/0.600 | 0.0522 | **-** |
| ***Soc*1089** | TGTTACCACGGCAACAAGC | (CA)14 | 194 | JQ235446 | 20/7 | 204-216 | 0.736/0.800 | 0.8281 | **-** |
|  | TTCTGTGGTGGTCGGTAAGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1090** | ACTCACATCTCGACAAACATAGG | (GT)239bp(TG)52bp | 218 | JQ235447 | 20/13 | 202-248 | 0.885/0.850 | 0.1181 | **-** |
|  | TGATACCTCAGCAGTCTCTTGG | (TG)7 |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1091** | ACTCGGAGGCTTTTCACTCC | (GT)16 | 120 | JQ235448 | 20/10 | 135-157 | 0.842/0.550 | 0.0028 | **N** |
|  | CCATATGGGAGGGCTACTGC |  |  |  | 20/13 | 123-165 | 0.879/0.900 | 0.1909 | **-** |
| ***Soc*1092** | TTTCCCTCCATTCAGTTTGC | (AC)9 | 338 | JQ235449 | 20/5 | 350-364 | 0.491/0.500 | 0.8122 | **-** |
|  | CCCTGTCATGCATCATTCC |  |  |  | 20/4 | 354-364 | 0.276/0.200 | 0.0481 | **-** |
| ***Soc*1093** | CACGTAACAAAGCCGTCTCC | (TG)12 | 344 | JQ235450 | 20/20 | 361-395**\*** | 0.963/0.800 | 0.0072 | **N** |
|  | TTTTGAAGGAAGCCACATGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1094** | TGTAACCCCACAAACAGAAGC | (CA)156bp(CA)11 | 279 | JQ235451 | 20/8 | 294-344 | 0.814/0.800 | 0.8253 | **-** |
|  | AGCAAACCTCACCTCTGACG | 10bp(CA)13 |  |  | 20/1 | 244 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1095** | GAGTCAATTCCTGCACAGAGG | (TG)8 | 234 | JQ235452 | 20/3 | 256-260 | 0.272/0.300 | 1.0000 | **-** |
|  | CACCAGGACGAACAATAAAGC |  |  |  | 20/1 | 252 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1096** | GGACAATCGCTACACCTTCC | (GT)71bp(TG)6 | 288 | JQ235453 | 20/2 | 310-312 | 0.050/0.050 | 1.0000 | **-** |
|  | GTGAAATATGCACCCAAAAGC |  |  |  | 20/8 | 316-336 | 0.840/0.750 | 0.0663 | **-** |
| ***Soc*1098** | ACCAAAGATTGCCTGAATGG | (GT)11 | 285 | JQ235454 | 20/7 | 292-306 | 0.731/0.750 | 0.2347 | **-** |
|  | TCCTTCCGTGTCACATTGG |  |  |  | 20/1 | 316 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1099** | AATGTGACACGGAAGGACAG | (GT)13 | 204 | JQ235455 | 20/14 | 213-239**\*** | 0.896/0.850 | 0.5113 | **-** |
|  | GGACCGTCAGATCCTACAAAC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1100** | AATGCATTCCCTGTCCTACG | (AC)6 | 287 | JQ235456 | 20/2 | 290-308 | 0.050/0.050 | 1.0000 | **-** |
|  | CTGGTGTGGACCCATAAAGG |  |  |  | 20/2 | 299-309 | 0.097/0.100 | 1.0000 | **-** |
| ***Soc*1101** | CTGAGAATGATGAAAGCTGAAAG | (GT)14 | 350 | JQ235457 | 12/8 | 365-381 | 0.830/0.833 | 0.0563 | **-** |
|  | GCGCTAGCGTAGCACAGTC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1102** | TGTTTCCATGGTGAATCTGC | (GT)69bp(TG)9 | 294 | JQ235458 | 20/4 | 319-325 | 0.671/0.750 | 0.1906 | **-** |
|  | CCTTGAATCGGTCCAACTAGG | 124bp(TG)8 |  |  | 20/5 | 321-329 | 0.745/0.800 | 0.2991 | **-** |
| ***Soc*1103** | GGGGAAAAACAGGTCACTGC | (TG)5(AG)9 | 129 | JQ235459 | 20/5 | 145-153 | 0.605/0.400 | 0.0247 | **-** |
|  | CTGCGCTCCTATTCACACG |  |  |  | 20/1 | 132 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1104** | CCCCACTCCTAGACTGATGC | (GT)17 | 119 | JQ235460 | 20/5 | 135-149 | 0.745/0.650 | 0.0325 | **-** |
|  | ACTGAGAACACTGCCACTGC |  |  |  | 20/8 | 113-127 | 0.818/0.850 | 0.1609 | **-** |
| ***Soc*1105** | CAAACCTCCTCCAGCTTCC | (AC)52bp(AC)11 | 373 | JQ235461 | 20/11 | 369-399 | 0.860/0.550 | 0.0156 | **N** |
|  | GTTCACACCCAAACACATGC |  |  |  | 20/6 | 355-371 | 0.777/0.700 | 0.0678 | **-** |
| ***Soc*1106** | CCTGAGAAGTAGGCAGACTCG | (AC)13 | 291 | JQ235462 | 20/3 | 303-313 | 0.272/0.300 | 1.0000 | **-** |
|  | TGCTGTAACTGGAATCAACTGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1107** | GGTGGTCGACCTCTGTGC | (AC)15 | 110 | JQ235463 | 20/3 | 130-134 | 0.527/0.350 | 0.1109 | **-** |
|  | AGCAGAGTCAACAGAGAGTCTGG |  |  |  | 20/4 | 107-115 | 0.547/0.600 | 0.1922 | **-** |
| ***Soc*1108** | GTGTGAATGTTGCCATCTGC | (AC)19 | 242 | JQ235464 | 20/9 | 253-273 | 0.888/0.850 | 0.7625 | **-** |
|  | CATCAGTGTATTCACAGTAAATGAAGC |  |  |  | 20/1 | 192 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1109** | TTTCTCTTCAAAGGATCACACG | (TG)1189bp(AC)9 | 227 | JQ235465 | 20/7 | 246-258 | 0.851/0.750 | 0.3241 | **-** |
|  | CACACTTGAATCCCCTTGC |  |  |  | 20/1 | 223 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1111** | TGGCAAAACACCAAACACC | (AC)22 | 180 | JQ235466 | 20/19 | 176-242 | 0.946/0.900 | 0.0575 | **-** |
|  | AAGAAATCGAGACGCAGACG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1114** | GCCTTTTGTTGAGTGGAAGG | (GT)5 | 113 | JQ235467 | 20/4 | 133-139 | 0.422/0.500 | 1.0000 | **-** |
|  | GGCACTGGTCACAGAAAGG |  |  |  | 20/1 | 121 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1115** | CAATAGATTGGGGATGAGTGC | (CA)7 | 294 | JQ235468 | 20/5 | 313-325 | 0.626/0.850 | 0.0456 | **-** |
|  | GCTTTCTCAAGCTTCTCTGAGC |  |  |  | 20/1 | 293 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1117** | GCAGTTGCACAGGAAAAGC | (CA)10 | 276 | JQ235469 | 20/2 | 299-301 | 0.050/0.050 | 1.0000 | **-** |
|  | GATGAGTCACTGCGTCAAGG |  |  |  | 20/3 | 267-271 | 0.483/0.400 | 0.7319 | **-** |
| ***Soc*1118** | ATGTGAGGAGTGGGTGATGG | (TG)5 | 145 | JQ235470 | 20/1 | 166 | 0.000/0.000 | 1.0000 | **-** |
|  | ACAGCGTCCTGGTTAGATGC |  |  |  | 20/3 | 163-169 | 0.529/0.400 | 0.3616 | **-** |
| ***Soc*1120** | AACCCAAGACCACAACATCC | (AC)6 | 173 | JQ235471 | 20/2 | 193-195 | 0.097/0.100 | 1.0000 | **-** |
|  | AAACTGCAAATCGTTCACTCG |  |  |  | 18/6 | 193-213 | 0.667/0.611 | 0.4950 | **-** |
| ***Soc*1121** | CATGCCAACACAAACACTGC | (AC)8 | 260 | JQ235472 | 20/3 | 261-283 | 0.145/0.150 | 1.0000 | **-** |
|  | AGAGGGTCTGGATGCTTGG |  |  |  | 20/2 | 260-266 | 0.097/0.100 | 1.0000 | **-** |
| ***Soc*1122** | GTTGGAGGCTCTGGACTACG | (TG)7 | 124 | JQ235473 | 20/2 | 145-147 | 0.050/0.050 | 1.0000 | **-** |
|  | TCACGTCAGTTTCCTGTTTCC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1123** | ACCAGCGAGACGATAACACC | (AC)5 | 267 | JQ235474 | 20/2 | 285-289 | 0.050/0.050 | 1.0000 | **-** |
|  | AAGAGATCAGCGGCTAGTGG |  |  |  | 20/1 | 296 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1124** | TGGCAGCAACTCTACTGTGG | (TG)13 | 316 | JQ235475 | 20/6 | 336-346 | 0.745/0.800 | 0.2784 | **-** |
|  | TGCAGACAGGGAAACTTGC |  |  |  | 18/1 | 323 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1125** | CCAGATGGAGGTTGTTAGAGG | (TG)25 | 256 | JQ235476 | 20/13 | 263-293 | 0.918/0.850 | 0.0488 | **-** |
|  | CGTGCCAATCTGTAAAATGC |  |  |  | 20/4 | 246-254 | 0.314/0.300 | 0.2141 | **-** |
| ***Soc*1126** | GGGTTTGGTCACGTAGACTAGC | (TG)19 | 181 | JQ235477 | 20/8 | 213-237 | 0.810/0.750 | 0.3959 | **-** |
|  | GATTACAGGTGTGGGTGATGC |  |  |  | 20/1 | 253 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1127** | CAGGGAGGGATGATTGAGC | (TG)22(CTG)11 | 218 | JQ235478 | 20/14 | 238-290 | 0.897/0.850 | 0.3366 | **-** |
|  | GTGTCAGCATGGAGTCATGG |  |  |  | 20/13 | 191-231 | 0.904/0.800 | 0.2341 | **-** |
| ***Soc*1128** | AATCTGCCGTTCAGATCC | (CA)24 | 99 | JQ235479 | 20/16 | 102-148 | 0.896/0.850 | 0.4681 | **-** |
|  | ATGTGAGCTTGTTCTCATGC |  |  |  | 20/1 | 102 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1129** | TTTTCCCCATCAAATGTATGC | (CA)82bp(CA)5 | 167 | JQ235480 | 20/6 | 179-193 | 0.654/0.750 | 0.6384 | **-** |
|  | GTGTGACCACCTGCTGAGG |  |  |  | 20/2 | 178-180 | 0.142/0.150 | 1.0000 | **-** |
| ***Soc*1130** | CACAAACTGGTGCTCAGTATCC | (GT)6 | 225 | JQ235481 | 20/1 | 246 | 0.000/0.000 | 1.0000 | **-** |
|  | TCAAACAGTCACCGTCATCC |  |  |  | 20/2 | 213-219 | 0.050/0.050 | 1.0000 | **-** |
| ***Soc*1133** | AATCAGGCACTTCCTTTTCC | (TG)13109bp(GT)9 | 247 | JQ235482 | 20/10 | 269-305 | 0.842/0.800 | 0.2313 | **-** |
|  | CATGTCTGAAGACTGACAGTTAAGC |  |  |  | 20/12 | 353-383 | 0.842/0.900 | 0.9728 | **-** |
| ***Soc*1134** | ATGTGCGTGTTAAGCTGCTG | (TG)131bp(GT)5 | 189 | JQ235483 | 20/12 | 194-224 | 0.846/0.950 | 0.8922 | **-** |
|  | CTCATTCATGCATAGAAAATGTTTG |  |  |  | 20/6 | 183-207 | 0.579/0.600 | 1.0000 | **-** |
| ***Soc*1136** | GACCTGAACCTCAATGAAACC | (TG)11 | 331 | JQ235484 | 20/11 | 346-378 | 0.867/0.700 | 0.0356 | **N,S** |
|  | AGCCCGGTCTGATAAAACG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1137** | CACTTCGCTCACAAACTTGC | (CA)8 | 130 | JQ235485 | 20/8 | 145-169 | 0.538/0.550 | 0.5828 | **-** |
|  | CTCAGAACCCAGGGAAAGG |  |  |  | 20/12 | 134-168 | 0.892/0.800 | 0.0344 | **-** |
| ***Soc*1138** | CCCGGTGTATTGTTCTGACC | (AC)9 | 181 | JQ235486 | 20/2 | 200-202 | 0.097/0.100 | 1.0000 | **-** |
|  | GCCAGAGTGTGTTTAAAAATTGG |  |  |  | 20/5 | 211-225 | 0.794/0.900 | 0.4522 | **-** |
| ***Soc*1139** | CACGAGTCTGGCTTTGTGG | (GT)7(GTGC)7 | 224 | JQ235487 | 20/11 | 247-281 | 0.872/0.850 | 0.0738 | **-** |
|  | GTCTCACCGACACCTTTTCC |  |  |  | 20/14 | 232-270 | 0.895/0.850 | 0.3819 | **-** |
| ***Soc*1140** | AATTACACAGCTCTGGACTACGG | (TG)8 | 94 | JQ235488 | 20/4 | 117-129 | 0.454/0.550 | 0.8150 | **-** |
|  | GGGTGTGATGGAACAGAAGG |  |  |  | 20/4 | 122-134 | 0.617/0.600 | 0.1356 | **-** |
| ***Soc*1141** | TTTGTTGTTGACCGTGATGC | (GT)8 | 300 | JQ235489 | 20/2 | 324-326 | 0.358/0.450 | 0.4966 | **-** |
|  | GGGCAGCTAACATGAACAGC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1142** | AGTGTGTGTTTGCACTCTGC | (TG)51bp(GT)18 | 281 | JQ235490 | 20/9 | 286-308 | 0.877/0.950 | 0.8734 | **-** |
|  | GTTTGACTGAAGTCAGAAACG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1143** | GTGGAATCTGGCACAGTGG | (AC)151bp(CA)5 | 277 | JQ235491 | 20/9 | 293-312 | 0.805/0.900 | 0.5125 | **-** |
|  | TTTGACGCAACAGCATTACC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1144** | CAGTGATCCATGAACCTTGG | (TG)7 | 349 | JQ235492 | 20/4 | 361-373 | 0.276/0.300 | 1.0000 | **-** |
|  | AAGGCCTAGACCCTTATCTTCC |  |  |  | 14/2 | 379-381 | 0.071/0.071 | 1.0000 | **-** |
| ***Soc*1145** | TTCAGCTTCACTTCTGTGTCG | (CA)7 | 140 | JQ235493 | 20/4 | 155-173 | 0.146/0.150 | 1.0000 | **-** |
|  | AACCAGTGATGTGAATGAAAGG |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1146** | CATCACTGGTTTGGATTTGC | (GT)8 | 291 | JQ235494 | 20/2 | 311-313 | 0.431/0.400 | 1.0000 | **-** |
|  | GGTGAGACATGTGGATGTGG |  |  |  | 20/4 | 313-319 | 0.590/0.600 | 0.1184 | **-** |
| ***Soc*1147** | AGTCATAGCCGAGGATCTGC | (GT)6 | 84 | JQ235495 | 20/2 | 103-105 | 0.450/0.350 | 0.3441 | **-** |
|  | ACAGCACAGCGCTTAGACG |  |  |  | 20/2 | 102-104 | 0.467/0.600 | 0.3203 | **-** |
| ***Soc*1148** | TCGTGAATGCTTCAAACAGG | (TG)24 | 234 | JQ235496 | 20/14 | 230-262 | 0.878/0.850 | 0.3003 | **-** |
|  | CGTTAGAGTTGCCCACAAGC |  |  |  | 20/1 | 193 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1151** | TTCACCCCACCATCACTACC | (AC)73bp(CA)6 | 106 | JQ235497 | 20/5 | 117-135 | 0.695/0.750 | 0.7894 | **-** |
|  | AAAATGCCCACATTAATTCTCC |  |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1152** | CCCTCCCTACTGTCCTGTCC | (TG)13 | 129 | JQ235498 | 20/11 | 141-179 | 0.742/0.800 | 0.7547 | **-** |
|  | TCAGCACAGCAGTCAGATCC |  |  |  | 20/1 | 120 | 0.000/0.000 | 1.0000 | **-** |
| ***Soc*1153** | GGCTGAATTACTGGAACATGC | (TG)9120bp(GT)5 | 286 | JQ235499 | 20/3 | 302-310 | 0.472/0.400 | 0.3409 | **-** |
|  | TTGAGCACTACCCAACATGC |  |  |  | 19/2 | 269-275 | 0.102/0.105 | 1.0000 | **-** |
| ***Soc*1154** | CCTCCTTTCACCTCCAAACC | (CA)18 | 296 | JQ235500 | 20/17 | 301-343 | 0.946/0.900 | 0.2044 | **-** |
|  | AACAGCGTGCAACAAGTCG |  |  |  | 20/3 | 315-319 | 0.376/0.150 | 0.0044 | **N** |
| ***Soc*1155** | TGCAGAGGGATAGACATGACC | (GT)62bp(GT)10 | 263 | JQ235501 | 20/6 | 279-291 | 0.776/0.750 | 0.4850 | **-** |
|  | TGGCTAAGTGGAGCTGAAGG |  |  |  | 20/8 | 280-298 | 0.783/0.650 | 0.2150 | **-** |
| ***Soc*1156** | TTAGGGACACACCACTGTGC | (GT)52bp(GT)6 | 341 | JQ235502 | 20/10 | 343-371 | 0.872/0.850 | 0.8081 | **-** |
|  | GCTTTCACACCCACTTTTCC | 151bp(GT)­15 |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Soc*1157** | CATATCCATGGCAACAGAAGG | (TG)51bp(GT)17 | 290 | JQ235503 | 20/11 | 291-321 | 0.872/0.950 | 0.9900 | **-** |
|  | AGGTAAAGAGTGGGCTCATCC | (GA)6 |  |  | **na** | **na** | **na** | **na** | **na** |
| ***Scoc*02** | CAGGTTCCAGCACATTTTAGC | (CA)11109bp(CA)9 | 223 | EU726996 | 20/5 | 230-246 | 0.601/0.600 | 0.7963 | **-** |
|  | AAAGATGCGATTGTTGATTCG |  |  |  | 20/5 | 234-244 | 0.491/0.400 | 0.1675 | **-** |

**Msat** is the designation of the microsatellite marker.

**Primers** are the forward (top) and reverse (bottom) primer sequences.

**Motif** indicates the repeat motif.

**Clone Size** is the size (in base pairs) of the allele in the sequenced clone.

**GenBank** is the GenBank Accession number for the clone sequence.

**N** is the number of individuals assayed, and **NA** is the number of alleles detected.

**Size Range** refers to the alleles thus far uncovered (includes the 21bp 5’-tail-sequence); **\*** indicates that alleles are not spaced as anticipated, i.e. 1 bp steps between allele sizes in a dinucleotide marker.

**HE** and **HO** are expected and observed heterozygosity, respectively.

**PHW** represents the probability of deviation from Hardy-Weinberg expectations; significant deviations, following Bonferroni correction (Rice, 1989), are **underlined**.

**Micro-checker** refers to possible issues with loci as indicated by Micro-checker (Van Oosterhout *et al.*, 2004): **N** represents evidence for null alleles, **S** represents evidence for scoring errors due to stuttering, and **–** represents no evident issues.

**na** indicates that the marker failed to amplify consistently.