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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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**References**

Estoup A, Larigiader CR, Perrot E, Chourrout D (1996) Rapid one tube DNA extraction for reliable PCR detection of fish polymorphic markers and transgenes. *Molecular Marine Biology and Biotechnology*, **5**, 295-298.

Ewens WJ, Spielman RS (2001) Overview: locating genes by linkage and association. *Theoretical Population Biology*, **60,** 135-139.

Karlsson S, Saillant E, Bumguardner BW, Vega RR, Gold JR (2008a) Genetic identification of hatchery-released red drum in Texas bays and estuaries. *North American Journal of Fisheries Management*, **28**, 1294-1304.

Karlsson S, Renshaw MA, Rexroad CE III, Gold JR (2008b) PCR primers for 100 microsatellites in red drum (*Sciaenops ocellatus*). *Molecular Ecology Resources*, **8**, 393-398.

Lewis PO, Zaykin D (2001) *Genetic Data Analysis (GDA): Computer Program for the Analysis of Allelic Data*, Version 1.0 (d16c). Free program distributed by the authors via the internet from <http://hydrodictyon.eeb.uconn.edu/people/plewis/software.php>.

Liu ZJ, Cordes JF (2004) DNA marker technologies and their applications in aquaculture genetics. *Aquaculture*, **238**, 1-37.

Lutz CG (1999) Red drum: a reemerging aquaculture species. *Aquaculture Magazine*, **25**, 35-38.

Perez-Enriquez R, Takagi M, Taniguchi N (1999) Genetic variability and pedigree tracing of a hatchery-reared stock of red sea bream (*Pagrus major*) used for stock enhancement, based on microsatellite DNA markers. *Aquaculture*, **173**, 431-423.

Portnoy DS, Renshaw MA, Hollenbeck CM, Gold JR (2010) A genetic linkage map of red drum, *Sciaenops ocellatus*. *Animal Genetics*, **41**, 630-641.

Portnoy DS, Hollenbeck CM, Renshaw MA, Gold JR (2011) Microsatellite panels for gene localization in red drum, *Sciaenops ocellatus*. *Aquaculture*, **319**, 505-508.

Renshaw MA, Gawriluk TR, Gold JR (2009) Characterization of red drum microsatellite markers in spotted seatrout. *North American Journal of Aquaculture*, **71**, 374-379.

Renshaw MA, Portnoy DS, Gold JR (2010) PCR primers for nuclear-encoded microsatellites of the groupers *Cephalopholis fulva* (coney) and *Epinephelus guttatus* (red hind). *Conservation Genetics*, **11**, 1197-1202.

Rice WR (1989) Analyzing tables of statistical tests. *Evolution*, **43**, 223-225.

Tringali MD, Leber KM, Halstead WG, McMichael R, O’Hop J, Winner B, Cody R, Young C, Neidig C, Wolfe H, Forstchen A, Barbieri L (2008) Marine stock enhancement in Florida: a multi-disciplinary, stakeholder-supported, accountability-based approach. *Reviews in Fisheries Science*, **16**, 51-57.

Van Oosterhout C, Hutchinson WF, Shipley P (2004) Micro-checker: software for identifying and correcting genotyping errors in microsatellite data. *Molecular Ecology Notes*, **4**, 535-538.

Vega RR, Neill WH, Gold JR, Ray MS (2011) Enhancement of Texas sciaenids (red drum and spotted seatrout). In: Interactions of fisheries and fishing communities related to aquaculture (R. Stickney, R. Iwamoto, and M. Rust, eds.). Proceedings of the Thirty-Eight U.S.-Japan Aquaculture Panel Symposium, Corpus Christi, Texas, October 26-27, 2009. U.S. Dept. Commerce, NOAA Tech. Memo. NMFS-F/SPO-113, 85-92 p.

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.