

Table 3: Primer sequences for the 33 markers

Locus	F Primer	Sequence (from 5' to 3')	N Primer	Sequence (from 5' to 3')	R Primer	Sequence (from 5' to 3')*
15	15F	GTGATGTGTCAAGTCTGATAGTG	15N	CCAACCTACTATTGTCTGCT	15R	UT-ACAAGCTCCTTCTCCTGAGAAT
20	20F	CACTGACAAACACGCTGGGT	20N	TTAGCTGTTGTTACGCTGTTAT	20R	UT-ATTGACCTAATCACCATTTCATAG
27	27F	AGAGGGAGAACGCCTAGATCG	27N	AGCAATGTGGCAAGTGGTAT	27R	UT-GATATCAGATCCAACACCCGGC
33	33F	TCTGTCCTGAAAATCACCCCT	33N	CTACCAGTTCGTCCGCCCGGATT	33R	UT-GGACAATGATGTTAAGAGGGTTAC
40	40F	TCATCATAGACACAAATTAAGTGT	40N	ATCTAAAAAAAAATCCTCTAGACATTT	40R	UT-TCTTTTGTCTATGCAGACAATCTGT
46	46F	TCACTTCTGGGAGACTTCCCGT	46N	TCACCACAGCATTAAAAATTCAG	46R	UT-CAGATAGAGTTTGTGCATTGCC
52	52F	CCTTTATCATGACAATATGT	52N	GAAGTTCCTCAGAAGGGTAAG	52R	UT-TACTCATGACTATCTTCGATCCT
56	56F	TCTGTAAACAAGAGTGTTCATG	56N	TGGAGACCCGTGTTTCAGGAGCG	56R	UT-TGACTGAGAAAAGTTACTGCTGAT
63	63F	AGTGAGCCCTGAAAATCATGGACT	63N	TCTCTGTTGTAAAGGAATATTGAC	63R	UT-AACTAATAGGACAAAACGTTGTATT
68	68F	ACCAGGTTCAAGTGTATGATAGGAC	68N	AAGTATGCAAAATGAGTATCAGTCAC	68R	UT-TGAGCCCCAGGGATTTAGACCACA
74	74F	CCGATGTGAATATGGAAAAGGTT	74N	GATTAGTGTCTGTTCTCTCAG	74R	UT-GAAGCCTCACTCTGACCCACGAC
79	79F	AAATGCACAGATTCTCCAGGT	79N	TAAGTGAGGGTGAGGAACAGGTT	79R	UT-TCCACACATGAACCCTCTGT
84	84F	ATGTATTTAAGGTACACCACTTGAC	84N	ATAAGTAAACAATGCTAAACAG	84R	UT-TCAATCCTCACCAATACCTGT
89	89F	CATCACTCTCAATGTTTCAGGTT	89N	CCTGCTGTGGCTGTTGCCTCTG	89R	UT-CAGAATTCCTGGTCTGTAGTATT
94	94F	AAGACACAAGGCCGAAAAT	94N	GACTGTTACAGAAGAAGCGGTTTG	94R	UT-CTACTAGCCTGGCATTAGTGTGCC
102	102F	CCAAAAATGTATCTGCCTGAC	102N	AGCAAAATCACACAGGTTGTGCG	102R	UT-TGGCCTCAGTTGCTCTGAAC
108	108F	GCCCAGCGAAGAACTAGGCACTCC	108N	TGTTTCATTGTGTGTCCACTG	108R	UT-CAGGCTGTGACACCATGTC
114	114F	GAAGCATGGTCTTCCAAGCGT	114N	TAGCCACAGTGGTCTTCCATCAG	114R	UT-ACAGAAGGAAACAGAGGACACTAAG
120	120F	AGTGGCTTCTCCTTCTGGTGAG	120N	AGACAAAATAGTAGTAGACACA	120R	UT-TGGTTGTCTAACTGTGTAGACCTC
128	128F	GATGGGAACTATAAATCTGCAAT	128N	CACTGGGCTCTATTGAGAGAT	128R	UT-AAGACATATACTATAACCTGTGAGAC
134	134F	TCCTTATCTTGTCTTACTGTGAAG	134N	CAGAGTCACTACAGTCAATTAGT	134R	UT-ACTTGGCTATACATTGTGTGGC
139	139F	CTTGTTTGAATAATGCCAGATTTAT	139N	CTCTGGAGGCTTCTTAAGGTTCC	139R	UT-AGAACCCTGGACATAGCAGC
144	144F	GTTCTTAACTTTATCTAGTTCT	144N	CTAGTTATTTGATACGTAATG	144R	UT-CAAAAGCTGTGCTAAGGGATAAG
149	149F	TGTGTTGGATTTGAGAGTGTAGCAC	149N	GTAAGATGACAATCTATGGATG	149R	UT-TAGTGTTTTGAATAAGTTTGTAGTT
155	155F	GCTACATTTCGAGCTACCAACG	155N	GCTTAGGTAGAGTCTATGGATT	155R	UT-ACCCACCTAAAACACTGAGTGGC
160	160F	CATATTTTCTTCTACTACTGG	160N	GAGCTCAGCCCCTGCATGAGACTTC	160R	UT-GTGCACATGAGGCAAGAGTTG
165	165F	TGGTGGGTTTTCCAGAATGT	165N	CATGCACTGCCCTGAAACATGTTTAT	165R	UT-AGAACACAGTCCCTATCTGATGT
169	169F	ATATTTCTACGAAGGCATTGTGAC	169N	CATTGCCGGTGTCTTCTGAACTCTG	169R	UT-GCCTTAATCTCTAGGTCAGGTC
175	175F	TAACATGCCTAACACACTCG	175N	TGGCTTCATTACTCTCTACAGG	175R	UT-ATGCTTCAGATAATTGAGGGTTG
180	180F	ACCCAGTTCTCATTATGTAAT	180N	TCCAATGTGGTGTCTGGAATTAT	180R	UT-GACCTCAAGATAAGAGGACTG
185	185F	TGACAGCATGCCAGCAATGAGT	185N	TCCAGTTGTTATGTTAAGAG	185R	UT-GGATATAACACACAGTATCAATGGA
190	190F	AGCTTCTCAAGCAACTAAAT	190N	AGCCAAGGGAATTTCAAAGT	190R	UT-TAATTCAAAGAGAGGAGCAT
195	195F	TTCAATGTTACCTGGGCCAGAT	195N	CCAGTTTAAATGGGCTCATACT	195R	UT-TCCTGCTCCCTTATCCCCAC

*UT in this column: Universal tail with a sequence of "CCCCGCCGCCGCCGCCGCC"

Pramanik S, Li H. Direct detection of insertion/deletion polymorphisms in an autosomal region by analyzing high-density markers in individual spermatozoa. *Am J Hum Genet.* 2002 Dec;71(6):1342-52.