

**Table 2.** PCR primers designed for STSs obtained from BAC end-sequences. Size of amplicons in base-pairs and PCR conditions (annealing temperature and mM MgCl<sub>2</sub>) for each set of primers is indicated (TD designates that a touchdown program was used).

STS	Forward primer (5 –3 )	Reverse primer (5 –3 )	Expected size	PCR Condi- tions
001P14SP6	AATATAACTGCCTGAACCTTTGTCA	CATGAAGACTTTTCAATTTGTGC	230	55, 1.5
001P14T7	CAGGTAGGACCTTGGGTTC	CCTCCCTTGCTCACTCTCTG	194	55, 1.5
009F01 int 1	TGGTGTATCGTGTGGCAGAT	AACGTACTTGCACGCAACAG	225	63, 1.5
009F01SP6	AGGGCATTCTTTGTGCTTA	GCTCAGAACACGCAGCTCTT	208	55, 1.5
009F01T7	GATTCATGTCAGCCGAACCT	AGCTGCTCTCAAAATCAAACCTG	110	58, 1.5
009I01SP6	CCTTGTTCCAGGCTTCTGTT	CTGCCAACAAATTTTGAGGGT	230	58, 1.5
011O15SP6	GGGGTCACTCCTGTCTGTGT	CCGTAGTGAGAGTGCCTTCA	186	58, 1.5
011O15T7	CATCTTGTCTTTGTGAGTTTGTGG	GGGTTACAAAGCCTTGAACAAA	179	60, 1.5
015A14/181B11 int	TGCTCCCTCCCTCTAGTCAA	TGAGCCCTGCCCAACTGGA	250	60, 1.5
015A14SP6	TTTTCGAACATGATTCCATTT	ATTCGTTAATCTGAGTTTTCACA	164	58, 1.5
015A14T7	GGCAGGAAGATGAGCGACTA	TGGATGACCTCTGTGGTGAA	173	58, 1.5
017A17SP6	AAGTGTGGGGTTCCTCTGGT	GGCCTAACCAATTCCTACCC	150	55, 1.5
017N12SP6	TGGCTGATGTCAGCAATGAT	TTTGACTTGCTGCTCTTGGA	157	58, 1.5
017N12T7	TTCCAGGTCAAAGCTGAAGG	GGCCTCTGAGTATGGGTTGA	157	58, 1.5
021G18SP6	CCGAGACATGAATCACCAAA	CAACGGGGAAAGAGTCTGTG	151	58, 1.5
021G18T7	ATAGGTGGGAAATGGTGCAG	TCAGGGTGTCTTCTCAGAC	199	58, 1.5
034.1C10M13	TGTTTGAAGTTTGTATGTTTG	CATGATGTAATCTACACGAAATTGA	247	58, 1.5
034.1C10T7	GGGGAAAGAAGCTTGCAATTAT	ACCCTACCTGGTCACTTGATT	212	60, 1.5
035D14SP6	CCAGAACTCGTTGACTTGTTC	ACTCTCTACCACCCAGCAA	182	58, 1.5
035D14T7	ATTTGCGCACATGTCTGTGT	AGTGGTGCAGGGTGATAAGC	157	58, 1.5
038L24T7	CGGCCTAACACTCATTCCTC	CCAAGTTCCTTGAATCTTAACAA	291	60, 1.5
046M21SP6	CAGGCTTGACTCTTGGGAAG	AGAAATGCCAGGGAGTTGTG	225	58, 1.5
046M21T7	TTAATCACCTGGAGGCCAAG	GAAGTGGGCTGTTCTGCTTC	207	63, 1.5
047B23/186F05 int	AGCTGCCAAGACCAAACCTGT	CTTAGCTGCCCCCTCAGTCAC	178	63, 1.5
047B23SP6	GGCACCCATAAGGAGTCTCA	GCTCCATCGGAGTGCTGTAT	212	58, 1.5
047B23T7	TCATTGCCTTACAGACTGTTGAA	GAAGAGGGATTGGACTTGC	208	55, 1.5
049J07SP6	CACTTTTTCTGAGCGCCTTC	CGCTGTCTGTCTCTCTCCACT	161	58, 1.5
049J07T7	TGCCCCCTCACACACAATTTA	TGTGCTCCCTCATTTCTCTC	168	58, 1.5
056C12SP6	ATAGGGAATTAAGGGCATGG	AGCAGGCGGATTCATGTTT	150	55, 1.5
056C12T7	ATGGTCTGGACTCTGGATGC	TGTTTGCAAAGCGTTTCACT	159	55, 1.5
060I06SP6	AATGCAGACCCAAGCTCATC	AGTCCATTTCACTGCCAAC	229	63, 1.5
060I06T7	TCCTAACACACAGTGGAGCAG	ACGGTCATTACAGACGAGGAG	52	TD 60, 1.5
064I21SP6	TCAATGGGCTTTTCTCTAGCA	CCAAGACCCAGTTGACTCT	174	62, 1.5
064I21T7	CAAGTGTCATGAGCTCAGGAAT	TTTTCTTCATAATGTCATCTTTGTT	171	TD 60, 1.5
081G24SP6	TTCCAGGCCAATTTAAGTTCA	GCCAAGTCAGGTGGAGAGTG	159	55, 1.5
081G24T7	AGAGGGGCGAGCTAGGTAAC	GTCGTCTGGATTTTGCCAAT	158	55, 1.5
085N19SP6	ATCCAGGAGAGGATCTTGG	TGTGTGAGCCCAACACGAC	172	55, 1.5
085N19T7	GACTCCACATCTGGCTTTGC	CAGGGGGAGCAGTCTTCAT	103	55, 1.5
087G16SP6	AACAACACTCCCTGGCTCAC	AGGAATGGGGTCACTCACAG	158	58, 1.5
087G16T7	AGCTTGAGCCCTTAGGCATT	TTTTCCACCCAGGCATTTAG	207	58, 1.5
097.1G07T7	GCCAGTCCCACTGGATCTTA	AAGTCAACAGCTCCCCCTTC	160	55, 1.5
101K14SP6	ATCAGCCTGCATTCTCAGGT	CTGGAATTGGAGTCCCAAGA	189	63, 1.5
101K14T7	GATCTTGGGGGACCTTGAG	CTTTTCTCTGGCCTCCACTG	202	63, 1.5
107D18SP6	TTCTAGGGCATTAGGGAGCA	CTGAAGGGAGACTGGCAAAG	188	55, 1.5
109A22SP6	CCTTGCGCTGAGAAACCTAC	ATCGTGTTTGTGGGAATGT	180	58, 1.5
109A22T7	GATCTTGGGACTTGCTGCTC	TGCAGATGGATCAAACCAAA	215	58, 1.5
114F19SP6	TCCGGGTGAAGAGAAATGAC	CAGAATGGAGAGGGATTGGA	225	58, 1.5
115E14SP6	TGGCACCAGGAATATGAACA	TTGCTTTTGCAGCTTCTTGA	250	60, 1.5
115E14T7	TCCACAATCCGAAATTAGCC	AAGGAAGAGCTGTCGCGTTA	153	60, 1.5
125O11SP6	ACAGGGGCCTTCAAACCTCTT	CACCTTTGAGCCTGAGGAAC	155	58, 1.5
125O11T7	GGACCCTCTCTGTGGAATGT	CGGTCGGTGTTAGACGTCAG	245	60, 1.5
127O05SP6	AGGGTATGCATGAGGTGTCC	AACCTGTCCACAAGACCTG	226	55, 1.5
139F16T7	CGCCTGGGTGATAGAGAGAC	CAGGCTGGTTGGATCCTTTA	151	62, 1.5
152N03SP6	GCAGGGACAGTGCTTAGAGG	CTTCCTCGAGCCCTCAGAC	168	60, 1.5
152N03T7	TGCCTTCCAGGTCTCTTTTC	CATCTGGGGCTGAAAGGTTA	167	58, 1.5
153C05SP6	GACTGCAATTCCCAAGTGACA	GTGGGCCAGCAGGTAGAAAC	154	58, 1.5
162B03SP6	CTCCCTGGGAATCCTAGCTT	TCACAGGTAGCTGTGCAAAATG	152	58, 1.5
162B03T7	AGCGAGGAAGAGCATTTTCAG	AGCGTGTTGAGAAAATGGT	184	58, 1.5

STS	Forward primer (5 –3 )	Reverse primer (5 –3 )	Expected size	PCR Condi- tions
167K09SP6	TTCAAAGGGAACACATTCCTG	CACACCAGCCTGTCACTCTT	56	60, 1.5
168H06SP6	CTTCTACCCAAACCCACCT	GGGTTACAGGTCAGCAGGAA	153	58, 1.5
168H06T7	GCTCCTTCCTTCATCTGCTG	GGGAAGGATCCCTTTGATCT	184	58, 1.5
172F16SP6	TGTGCAGGCATCATAAGACC	AGGAACGATTCCATCACAGC	194	60, 1.5
172F16T7	CCTCCCTGGGAATCCTAGAC	CAGGTAGCTGTCGAAATGTGA	153	60, 1.5
177I18SP6	TTCCTGTGTCTTCGTGTTGG	CCAAGTGGTGGTAGGAGGAA	150	58, 1.5
177J08SP6	TTTGGGAAGCCTCAGAAGAA	CGTGAGGTGGGTGAGAAAAT	209	58, 1.5
177J08T7	CAGACACATGGACCAGCACT	TTTGAAGGCAAAAATAACAGGTG	291	60, 1.5
181B11SP6	TGATGAATTGATCCTCTGCTG	CTCAGGTGTTGCTTGGGACT	152	58, 1.5
182E20SP6	GGACACCCTGGGATAGATCA	CAGAGCAGACATGGGGATG	100	60, 1.5
182E20T7	TTGGACCAGAAGTCGAGGTT	AACGTGTCCACTGCCTCTTC	91	58, 1.5
186F05 int	CCTTCTGGTCTCCATGGTTT	TCCCAAGTTGAGAGAAGGACA	223	58, 1.5
186F05T7	GACCTGCCACCACTGAGAAT	AAAGTGTCCCTCCTGCACAC	197	58, 1.5
195I22T7	TCTCCTCTCTGGCTCTTTTCG	ATTTGAATGGACTCGGGAAA	100	55, 1.5
219J06SP6	AGAGGTGACCCGGGTTTAGT	ACATCACCTCCCTCCCTTCT	117	58, 1.5
219J06T7	CCTTCGGTTCATCTCTCGTC	ACGCTGAGGCACCATCTTAT	206	62, 1.5
229L17T7	GCCTCACCACTTGTCTTAA	AGAGGGTCCAAGCTCTCCAG	186	58, 1.5
230C10SP6	ATCGGAACTACAACCCATC	CCGCCTCTTTCTTTTCTTC	132	58, 1.5
230C10T7	GTCCAGCTTCCCTGTGACC	CCTTGACAACGTCCAGTCCT	116	60, 1.5
230H17SP6	TCAGAGTGGACCACAGCATC	GTCGGACTTCGTCTTGTGT	171	60, 1.5
230H17T7	CGACCTGGTCATTGAGAAC	CATGAGAGGGCCCAGAGTT	150	58, 1.5
232K12SP6	CAGGGCCACTCATGTGTCTA	ACTCATCAGCCTCCACACCT	103	58, 1.5
238A18SP6	GAAAAAGATGGGGCATCTGA	GAACGCTCCTTGTGAATGGT	151	55, 1.5
238A18T7	ACAGGGATGCAGAAGTGTCC	GGACTGGGCAGGGAAGATAC	157	58, 1.5
238I22SP6	CCTGCATTCGGGTACTGTTT	ACATCCAGCTGACCTCGTCT	141	58, 1.5
238I22T7	AGGAAGGAGCCTGACCCTAC	CTGTTTCAGGAAACCCAAGG	189	60, 1.5
242J14T7	GCAGAGGCAAGAGAAATTGG	TCCCATCAGGAATCCAGAAA	152	58, 1.5
265C11SP6	TTTCACAGTTTTGGCAATATGAA	TGCTTGGGGGTTAATAGCAC	102	58, 1.5
265C11T7	GGGGGCACTATGCTTTATCA	GGAAATGACCGTCCTTAGCA	182	58, 1.5
276A04SP6	CCACTGGAAGTGTGGGAGAT	AGCAGCAGGAAATCTCACTTG	194	58, 1.5
311I15SP6	CGACCTGGTCATTGAGGAAC	CATGAGAGGGCCCAGAGTT	150	60, 1.5
311I15T7	CAGCTCACCTCGGAGTACAG	CTCAGAGGTGGTGGCAGAC	153	60, 1.5
325D24SP6	AAACTGAGGCCAGGAGAGGT	ATTCCCAGGATGAAGGTTCC	123	62, 1.5
325D24T7	CTTAGTCAAAACCCGGCCATA	AAACAGGGAGACACCCAAGA	203	60, 1.5
326D04SP6	ACACCAGAAAATGCCACCAT	GTGCTTGGGACTGAAGGAAG	216	58, 1.5
326D04T7	GGAGAGTGACGTCAGCAACA	TCCGATGTATAGCAGCATGG	153	TD 60, 2.0
338D15SP6	CTAGGGGGTGAGCACAAAAG	TGCCTATGCCCTCATCTTTC	163	60, 1.5
338D15T7	TGCACATCCCTTGTAGGTGA	CCCTACATCATCCTCGCAAT	176	60, 1.5
394J21SP6	GTAGGTGGGCCCCTAAACTC	GAAAGGACCATCCTCAGACCA	109	58, 1.5
394J21T7	CTGAACTCCAGCACCATCCT	TACCGTGCACTTGGTGATGT	153	58, 1.5
408C14SP6	TCAATGGGCTTTTCTCTAGCA	CCTAACCATCCAATGCCAAG	221	55, 1.5
408M24SP6	GGAAGAAATTCCCGGCTTAG	GGCCCTTTTCTCTTTGCTT	242	57, 1.5
408M24T7	AGGCCACTCTCTGCACTACG	CTCAAGCCAAGCAGGAAAAAC	178	62, 1.5
412B24SP6	TAGGAGTTGCCTGGTCTGCT	ACTTGTGGAGTGCCCAAAAC	156	TD60, 2.0
431M22SP6	TATCGTCAGGGAAAAGGCAAC	TGCTTCCATCTCATCATTGC	132	58, 1.5
431M22T7	CATAAATCCAGCCCCTGGTA	TCCTGTGCGTCAGCCTTAAT	156	55, 1.5
493B19SP6	CAAACCAATGCCATTTTGAA	CACTGGCCATGTCTCAGCTA	158	55, 1.5
501I16T7	CGATCCTTTTCTGGGATTCA	TTCGGCTGGAAAGAGAGAAA	202	57, 1.5
506J16SP6	ATATCGTAACGCACCAAGCA	AGTCCTCTCGGCAATTCAAA	151	55, 1.5
506J16T7	ACAAGTGAGTCCCCATGTCC	CTGGCCACCTTCATCTAGGA	165	55, 1.5