Forward: 5-CAACAGCAAGATGCATACCA-3

Reverse1: 5-CACTTGCTATGCACCTGATG-3

Reverse2: 5-GTGCAGTTGTTTCCCATCGT-3

>NM\_001007559.1 Homo sapiens synovial sarcoma translocation, chromosome 18 (SS18), transcript variant 1, mRNA

GAGAGGCCGGCGTCTCTCCCCCAGTTTGCCGTTCACCCGGAGCGCTCGGGACTTGCCGATAGTGGTGACGGCGGCAACATGTCTGTGGCTTTCGCGGCCCCGAGGCAGCGAGGCAAGGGGGAGATCACTCCCGCTGCGATTCAGAAGATGTTGGATGACAATAACCATCTTATTCAGTGTATAATGGACTCTCAGAATAAAGGAAAGACCTCAGAGTGTTCTCAGTATCAGCAGATGTTGCACACAAACTTGGTATACCTTGCTACAATAGCAGATTCTAATCAAAATATGCAGTCTCTTTTACCAGCACCACCCACACAGAATATGCCTATGGGTCCTGGAGGGATGAATCAGAGCGGCCCTCCCCCACCTCCACGCTCTCACAACATGCCTTCAGATGGAATGGTAGGTGGGGGTCCTCCTGCACCGCACATGCAGAACCAGATGAACGGCCAGATGCCTGGGCCTAACCATATGCCTATGCAGGGACCTGGACCCAATCAACTCAATATGACAAACAGTTCCATGAATATGCCTTCAAGTAGCCATGGATCCATGGGAGGTTACAACCATTCTGTGCCATCATCACAGAGCATGCCAGTACAGAATCAGATGACAATGAGTCAGGGACAACCAATGGGAAACTATGGTCCCAGACCAAATATGAGTATGCAGCCAAACCAAGGTCCAATGATGCATCAGCAGCCTCCTTCTCAGCAATACAATATGCCACAGGGAGGCGGACAGCATTACCAAGGACAGCAGCCACCTATGGGAATGATGGGTCAAGTTAACCAAGGCAATCATATGATGGGTCAGAGACAGATTCCTCCCTATAGACCTCCTCAACAGGGCCCACCACAGCAGTACTCAGGCCAGGAAGACTATTACGGGGACCAATACAGTCATGGTGGACAAGGTCCTCCAGAAGGCATGAACCAGCAATATTACCCTGATGGTCATAATGATTACGGTTATCAGCAACCGTCGTATCCTGAACAAGGCTACGATAGGCCTTATGAGGATTCCTCACAACATTACTACGAAGGAGGAAATTCACAGTATGGC[CAACAGCAAGATGCATACCA]GGGACCACCTCCACAACAGGGATATCCACCCCAGCAGCAGCAGTACCCAGGGCAGCAAGGTTACCCAGGACAGCAGCAGGGCTACGGTCCTTCACAGGGTGGTCCAGGTCCTCAGTATCCTAACTACCCACAGGGACAAGGTCAGCAGTATGGAGGATATAGACCAACACAGCCTGGACCACCACAGCCACCCCAGCAGAGGCCTTATGGATATGACCAGGGACAGTATGGAAATTACCAGCAGTGAAAAAGTACTTACATTCCAGTAGCCAGTATCTATTAGCAGCCATATTGTCACCTCAGCACTGTGGACACCTCCCTGTGAAGAGATCCTTCCATTCCATCTAGTTTTTGGAAAAACCTTGTGGATAAGTGGCTGTTTCATCAGTAAGCAGCCTTTGTGGTTTAGTTATAAAAGGCTTTAGTAGCTCAAAAATACTCTTGATTTCACATTTCTACTCTAGATGGCAACATTGGACAGAAAATGCAATGACATAACCAATTTGTAATGATTTTGGAACTGTGTTTCAAATGGACTGTTACAGACTGAAAGGTGTGAACAGCTTTGTATGTTTATGAAGGGTAAGGGAATTTAATACTTTTCCACAGATTTTTTTGTAAGGGGAAGAGGGAAATGTACACTTTTTACAGCAGCAATATTTTGTATATTATGTTTATTTCATGTGGTGAATATGCAAGGCGGTACACTACGCACTGGACAGCATCAGAAATCCTCTGTTAATGTGGACTGGAGCATGGTAGATGCTTGATTGTTTTGGTCTCAAAATGGTGTGCTATAAAGATAAAGGTGAGGGGAAGACAAAGCACACCATATGTCCACTGTTCTGTTCTCATAGAGGAAATTCAAATCCCTTTTATCTATTAGATAATCAAGGGCACTGTGATACAGTTTTGAGTAAAAAGACATTTTTTAAAAGCCTTCCAGTTTTGTGGATTAAACCTTTTTATAAAGATCATTTATAATACTGTTTTAAAATGTGAGGCAATAAGAATTACTTTGTGTTGGATCTGAGGAGGCTTTGGTAAAACAGTTTCATCTAAATGAAAGTGGTAATCCTCTTCTAAAATAGCAATAACTGAAAATGAAAGTGTTAATTTTACCTTGTTTGAGTTATCAGGGAACTTAGTAAGTAATATCAAAGCATTTTATAAATGATATCAAAGAAGAGTCAACATTGATCCAGTCATTTTATTTTGTAATATTGAGGGATAATTGGTTATTAAACTGAATAGTTCAGGAGACTTTACAAACCTTTGTTTCAACTTTCTTATCTGGAAATAATATCATTTATAAAGGGACACTTTTATGTTTTTCCCTTTTTTATGTTGGTTGATATAACACAAAGAGATATTTAGGAAAATGCTTATTGATGAGGTTTATTCTATCTGTTTTTAAAGCACCGAGGTTGCATTCTAGATAACCTTGTTTATTAGCATGGCATATTTTAATCATTATTTGAGACTGTCCTGTGCCTGATTATTTTAGCTAAATTCAGGGAGATTGCGTGGGGCAGGAAAGCATGCATTGAAAAATTTCTAACCACGGTTATTTAAGCATAATCTGAAAACATCTAGCCCAAAGGTAAGTTGCTATTTTCATCACAGTTGCCTATGCCCAGGGAATAAGATGTATTCTTTATAATTGAATTGGTTTTTCCCACGTCTAACTGGAAACAAAACAGAAGGGGCGTCATAAATTTGAATAAGCAGAACATACTGTTCTCAACATACTGTAATCAAAAGGAGGAATTTCAGTGGGTCTCTGTGTGTGTATGAGAGAGAGAGTGTGTGTTTGTGTGTTTCAAGGTCAGAACAGGTTTTTTTGTTTTTGTTTTTTGTTCTTTGTTTTTTTTTTTGAGATGGAGTCTTGCTCTTGTCGCCCAGGCTGGAGTGCAGTGGCGCAATCTCAGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATGACAGGCACCCGCCACCACACCCAGCTAATTTTTGTACTTTTAGTAGAGACGAGGTTTCGCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCGCCTCGGCCTTCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCTGGCCAGAATAGGTTTTTTCTTTCAACTTGATCAGTAGAAAATGGACATCAAGTTTGAACAGATAAATCATGGACAGCCTTATTGTGATTGAAATGCTTGTAGGTTCTGTGCCAATTTTCCACCACTGTGTACTTTGTTGCTATTTAAAACTGTATCAACTCTAACGGAAGAATAAATTATTTGTGATTTTAAAAAA

>NM\_001278691.1 Homo sapiens SSX family member 1 (SSX1), transcript variant 1, mRNA

TCCTGGAGCAATGACATTGCAGAATATTTTCTCCTCCTCCAGCCACACTTTGTCACCAACTGCTGCCAACTCGCCACCACTGCTGCCGACCTCGCAACCACTGCTTTGTCTCTGAATAGAGACAGGGTTTCCTTATGTTGGCCGAACTGGGCTTGACCTCCTCGGCTCAAGTGATCCTCCCACCTCGGCCTCGGAACTACAGGTGAGACTGCTCCTGGTGCCATGAACGGAGACGACACCTTTGCAAAGAGACCCAGGGATGATGCTAAAGCATCAGAGAAGAGAAGCAAGGCCTTTGATGATATTGCCACATACTTCTCTAAGAAAGAGTGGAAAAAGATGAAATACTCGGAGAAAATCAGCTATGTGTATATGAAGAGAAACTATAAGGCCATGACTAAACTAGGTTTCAAAGTCACCCTCCCACCTTTCATGTGTAATAAACAGGCCACAGACTTCCAGGGGAATGATTTTGATAATGACCATAACCGCAGGATTCAGGTTGAACATCCTCAGATGACTTTCGGCAGGCTCCACAGAATCATCCCGAAGATCATGCCCAAGAAGCCAGCAGAGGACGAAAATGATTCGAAGGGAGTGTCAGAAGCATCTGGCCCACAAAACGATGGGAAACAACTGCACCCCCCAGGAAAAGCAAATATTTCTGAGAAGATTAATAAGAGATCTGGACCCAAAAGGGGGAAACATGCCTGGACCCACAGACTGCGTGAGAGAAAGCAGCTGGTGATTTATGAAGAGATCAGTGACCCTGAGGAAGATGACGAGTAACTCCCCTGGGGGATACGACACATGCCCTTGATGAGAAGCAGAACGTGGTGACCTTTCACGAACATGGGCATGGCTGCGGCTCCCTCGT**[CATCAGGTGCATAGCAAGTG]**AAAGCAAGTGTTCACAACGGTGAAACTTGAGCGTCATTTTTCTTAGTGTGCCAAGAGTTCGATGTTAGTGTTTCCATTGTATTTTCTTACAGTGTGCCATTCTGTTAGATACTATCCTTATAATTGATGAGCAAGACATACTGAATGCATATTTCGGTTTGTGTATCCATGCACCTACGTCAGAAAACAAGTATTGTCAGGTATTCTCTCCATAGAACAGCACTATCCTCATCTCTCCCCAGATGTGACTACTGAGGGCAGTTCTGAGTGTTTAATTTCAGACTTTTTCCTCTGCATTTACACACACACACACACACACACGCACACACACACACCAAGTACCAGTATAAGCATCTCCCATCTGCTTTTCCCATTGCCATGCGTCCTGGTCAAGCCCCCCTCACTCTGTTTCCTGTTCAGCATGTACTCCCCTCATCCGATTCCCCTGTATCAGTCACTGACAGTTAATAAACCTTTGCAAACGTTCAAAAAAAAAAAAAAAAAA

>SS18-SSX1 fusion mRNA

[CAACAGCAAGATGCATACCA]GGGACCACCTCCACAACAGGGATATCCACCCCAGCAGCAGCAGTACCCAGGGCAGCAAGGTTACCCAGGACAGCAGCAGGGCTACGGTCCTTCACAGGGTGGTCCAGGTCCTCAGTATCCTAACTACCCACAGGGACAAGGTCAGCAGTATGGAGGATATAGACCAACACAGCCTGGACCACCACAGCCACCCCAGCAGAGGCCTTATGGATATGACCAGATCATGCCCAAGAAGCCAGCAGAGGACGAAAATGATTCGAAGGGAGTGTCAGAAGCATCTGGCCCACAAAACGATGGGAAACAACTGCACCCCCCAGGAAAAGCAAATATTTCTGAGAAGATTAATAAGAGATCTGGACCCAAAAGGGGGAAACATGCCTGGACCCACAGACTGCGTGAGAGAAAGCAGCTGGTGATTTATGAAGAGATCAGTGACCCTGAGGAAGATGACGAGTAACTCCCCTGGGGGATACGACACATGCCCTTGATGAGAAGCAGAACGTGGTGACCTTTCACGAACATGGGCATGGCTGCGGCTCCCTCGT**[CATCAGGTGCATAGCAAGTG]**

RT-PCR products (35 cycles; 96°C 1 min; 47°C 1 min; 72°C 3 min) of synovial sarcoma (1-9) and control renal tumor (10) samples, after agarose gel (2%) electrophoresis. As primers SYT: 5' CAACAGCAAGATGCATACCA3' and SSX: 5' CACTTGCTATGCACCTGATG 3' were used (see Fig. 2). Synovial sarcomas: lanes 1 and 5-9: 28775/90, 2374/90, 23.303B, KN, 4873/92 and 20521/88 (see refs 4,7); lane 2: 293090 (unpublished case); lane 3: somatic cell hybrid Hlsynsarc (ref. 10); lane 4: a tumor-derived cell line (unpublished result). Fragment lengths are indicated in base pairs.