Supporting Text

Real-Time PCR. Assay ID for: Igtp, Mm00497611_m1; Slitl2, Mm00454838_m1; Ccnd2, Mm00438071_m1; Eif1a, Mm00456651_m1; Abcb1a, Mm00440761_m1; Abcg2, Mm00496364_m1; Abcc5, Mm00443360_m1). Primers were chosen based on their ability to span the most 3' exon-exon junction. Amplification was carried for 40 cycles (95ºC for 15 sec, 60ºC for 1 min). To calculate the efficiency of the PCR and to assess the sensitivity of each assay, we also performed a 7-point standard curve (10; 3.3; 1.1; 0.37; 0.123; 0.041 and 0.015 ng). Triplicate cycle threshold values were averaged, and amounts of target were interpolated from the standard curves and normalized to hypoxanthine guanine phosphoribosyl transferase (HPRT).

Semiquantitative PCR. Total RNA from GIST was reverse-transcribed using the SuperScript II Reverse Transcriptase (Invitrogen) according to the manufacturer's instructions. Subsequent dilution of cDNA samples was done to normalize GAPDH PCR before the PCR of the other genes. The reactions were stopped during the exponential phase of amplification. The primer sequences were: 5'-ACCACAGTCCATGCCATCAC-3' and 5'-TCCACCACCCTGTTGCTGTA-3' for GAPDH; 5'-CCCACAGATGTCACAGCCATTC-3' and 5'-CAGCAAGCAAAGCAACAGTGTATG-3' for cyclin D3; 5'-CGTCAGGACCCTAAAGAATGGC -3' and 5'-TCCCCCTTATGGTTCCGATG -3' for p18; 5'- AAACAGGCTCCAGCAGGTTACC -3' and 5'-AAGTCCCACAGCACCACATTGG -3' for ifi1; 5'-TGAACGCCTTTATGGTGTGGTC -3' and 5'-TCCTGGATGAACGGAATCTTGTC -3' for Sox 4; and 5'-CTGAAAGCCCTACCCAAACTGAG -3' and 5'- CCAAGCATCAAAACCCAGGAG -3' for FKBP1a; 5'- AGAACAATCTGCTGAAGACGCTG -3' and 5'-CAATGAAATGGGTGACTGTGGAG -3' for Tgfb1-4. The annealing temperatures

were 55.4ºC for Sox 4 and FKBP1a; 56ºC for p18 and GAPDH; and 57, 58, and 61ºC for Ifi1, cyclin D3, and Tgfb1-4, respectively.