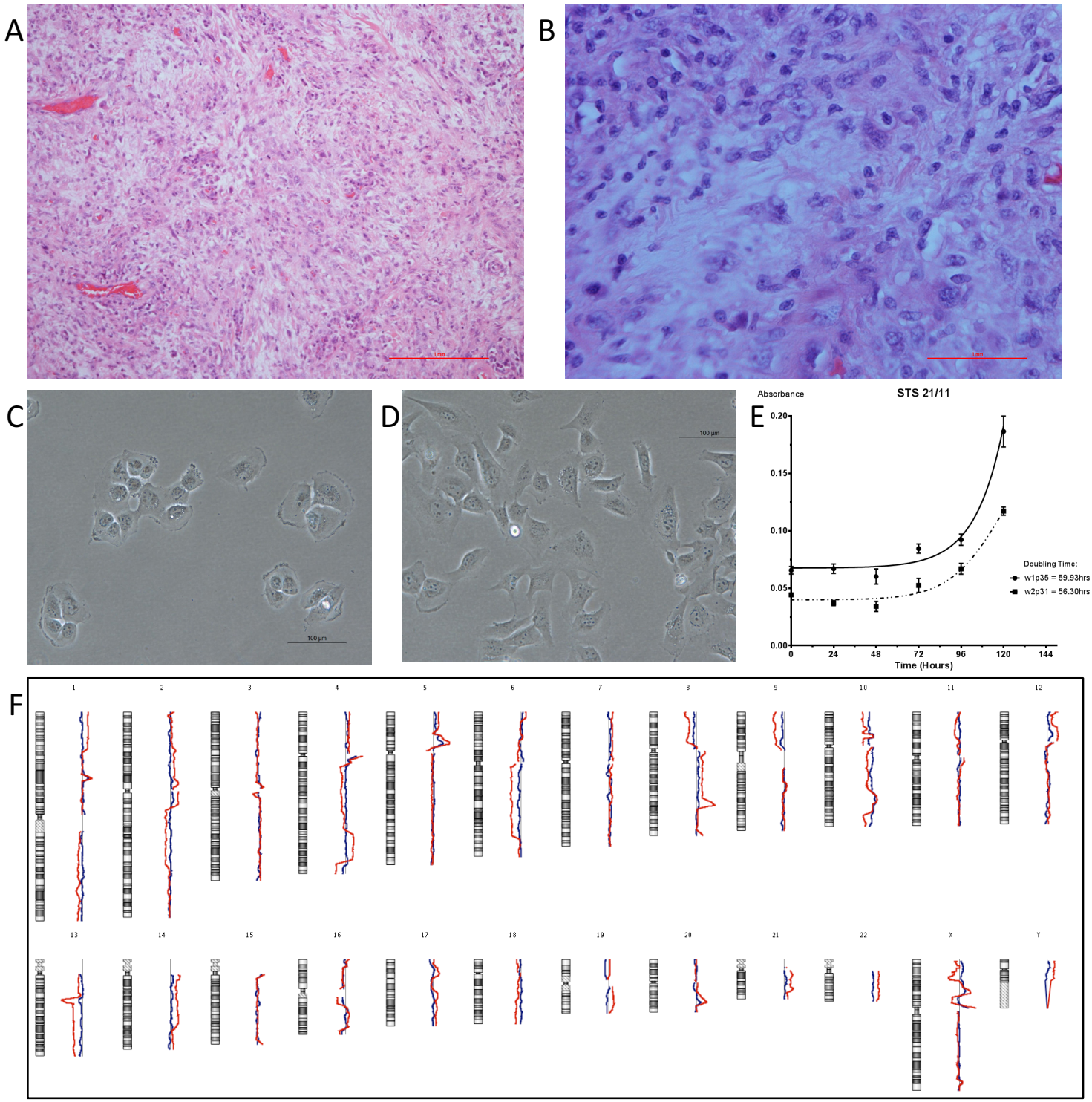

Figure S7: Phenotypic and genomic characteristics of two morphologically distinct Shef-*MFS* 01 cultures

A and B: Photomicrographs of haematoxylin & eosin-stained sections of the parent tumour, a primary myxofibrosarcoma taken at low- (x100) and high- (x400) magnification, respectively. Scale bars = 1mm.

Cultures were established in the first and second washes of initially non-adherent cells taken off original tissue setups and designated w_1 and w_2 variants respectively. **C and D:** Phase contrast micrographs of the w_1 and w_2 variant cells at passage 35 and 31 respectively. Scale Bars = 100µm **E:** Growth curve and doubling time of w_1 and w_2 variant tumour cells at passage 35 and 31 respectively as evaluated by MTT proliferation assay. Doubling Times = 59.93 and 56.30 hours respectively

F: Genomic Copy number profile of w_1 variant cells at passage 35 compared with the parent tumour from which the culture was derived. The overlaid red and blue lines represent the moving average of $\log_2$ ratios of the cultured cells and parent tumour tissue, respectively. Deviations above and below the horizontal baseline represent amplifications and deletions, respectively. Relative amplitude of deviation shows the $\log_2$ratio and represents DNA copy number at the corresponding genomic locus.

Copy number analysis was performed on the Agilent® 4 x 180K DNA microarray platform and data analysed using Agilent® Genomic Workbench Software v6.0. Growth Curve fitting and doubling time calculation were done using GraphPad® Prism Software (v6.0) based on experiments done in quadruplicate.