Figure S1: Immunohistochemical staining with cytokeratin5/6 and TTF1.
The immunohistochemical staining was performed by an automated Ultra Bench Mark Ventana. Cytokeratin 5/6 (DAKO M7237) was used with a dilution 1/500 and TTF1 (DAKO M3575) with a dilution 1/1000. The staining was performed according to the established protocol from the Institute of Pathology of the University Hospital Essen. Pictures were taken with a magnification of 100x. Positive staining with cytokeratin 5/6 (brown) is displayed in the first row, staining with TTF1, in the second row, was negative as expected. The displayed images were taken from different sections of the original donor tumor tissue containing on the one hand a CIN region (left column) and on the other hand a predominantly existing invasive SCC region (right column).
Figure S2: Negative control staining for the biomarkers analyzed in PeCa-UkHb-01 cells.
The first and second column show conjunctival and corneal fibroblasts stained for the markers K19, EpCAM, ABCG2, p63, OCT4 and SOX2. Stainings were performed with the same primary antibodies applied to the PeCa-UkHb-01 cells in order to rule out possible non-specific bindings of the primary antibody. Note the control slide for OCT4 and K19 was double-stained with both primary antibodies. The third column shows PeCa-UkHb-01 cells of the 42 passage stained omitting the primary antibodies. Only the secondary anti-rabbit and anti-mouse antibodies were applied simultaneously to rule out non-specific binding of the secondary antibodies.
Figure S3: growth curve of PeCa-UkHb-01 cells from Passage 25 to 60
Y-axis shows the achieved confluence level of the cell cultures. X-axis shows the time in days before passaging. The confluence was not evaluated before day 2 in order to give the cells enough time for attachment.