

**SUPPLEMENTARY TABLE****Supplementary Table S1: Sphere formation assays on prostate cancer cell lines**

cell lines	spheres	PEITC ( $\mu\text{M}$ )	exposure (days)
LNCaP	++++	4	4-7
GFP-LNCaP	++++	4	4-7
PC-3	+/-	2	8-12
DU-145	-	2-4	4-10

Sphere formation assay was performed with several prostate cancer cell lines (table S1). We explored a variety of assay conditions, including the length of exposures to PEITC and PEITC concentrations. Details on LNCaP and GFP-LNCaP cell lines were in the official text. DU-145 failed to show any sphere formation. PC-3 had extremely low efficiency of sphere formation (number of spheres from number of cells placed in culture), with more irregular-shaped spheres when the spheres did show up. GFP-LNCaP cell line was obtained from an independent commercial source (see Material and Methods). The cell line was established by inserting GFP into the LNCaP cells, and therefore should be considered as a separate sub-cell line of LNCaP. This GFP-LNCaP sub-cell line had the same sphere formation efficiency like the parental cell line. Using this cell line, we also proved with GFP staining that the neuroendocrine differentiation was indeed from the parental LNCaP cells.