FIGURE S1

NTR lentiviral packaging plasmids. *In vitro* analysis of the levels of expression of NTR in the MDA-MB-231 NTR⁺ cell line and in the MDA-MB-231 after transduction and sorting with the lentiviral NTR particles. Similar levels of expression were observed in both cell lines.
FIGURE S2

(A) Example of HIF1α IHC in NTR⁻ and NTR⁺ MDA-MB-231 xenografts. (B) No significant difference was observed in the normalised area positive for HIF1α between NTR⁻ and NTR⁺ MDA-MB-231 xenografts (n = 3, per group).
(A) NTR⁺/NTR⁻ ratio was notably lower for NCI-H460 than for MDA-MB-231 cell line (B) Representative ¹⁸F-FMISO PET/CT MIP images of NCI-H460 xenografts. NTR⁻ tumour (right flank) and NTR⁺ tumour (left flank). (C) SUV<br>max values were significantly higher in NTR⁺ xenografts. (*, p < 0.05, n = 4) The p-values are represented as indicated: * p < 0.05, ** p < 0.01, *** p < 0.001 and **** p < 0.0001.
**FIGURE S4**

SUV\textsubscript{max}, SUV\textsubscript{p5} and SUV\textsubscript{p10} analyses show similar results in the \textit{in vivo} transduced tumours. The p-values are represented as indicated: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ and **** $p < 0.0001$. 
FIGURE S5

(A) The spatial pattern of HIF1α accumulation was similar in both intratumorally injected and non-injected tumours MDA-MB-231 NTR+ xenografts. (B) The normalised HIF1α positive area was significantly lower in intratumorally injected xenografts (n = 4 per group).