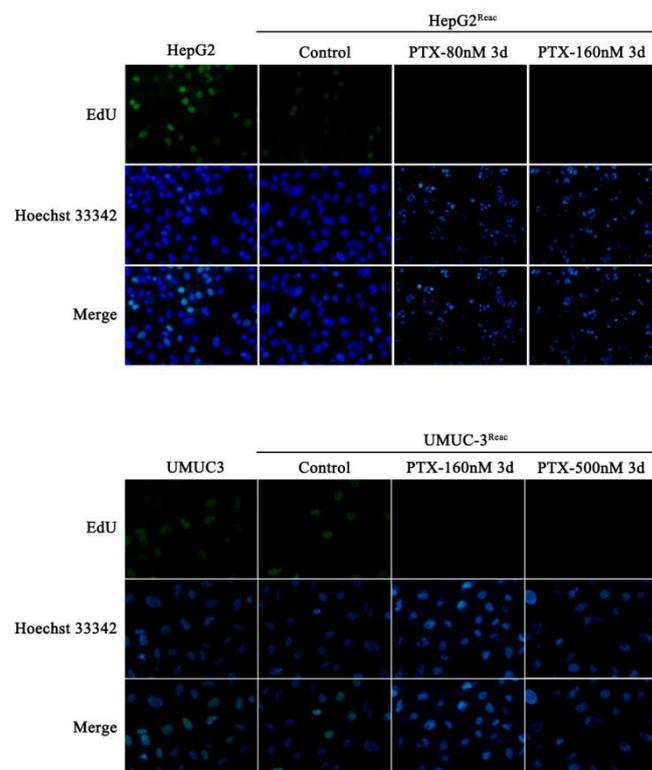


**Table 1 Primers for real-time PCR**

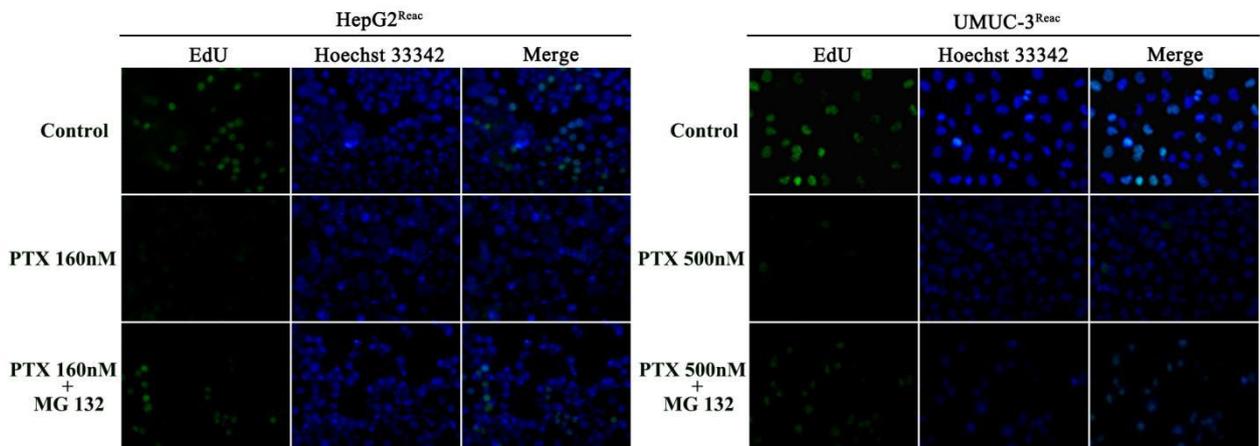
Gene Name	Forward(5'-3')	Reverse(5'-3')
CD44	CTGCCGCTTTGCAGGTGTA	CATTGTGGGCAAGGTGCTATT
NANOG	AAGGTCCCGGTCAAGAAACAG	CTTCTGCGTCACACCATTGC
OCT4	CTGGGTTGATCCTCGGACCT	CCATCGGAGTTGCTCTCCA
ABCG2	CAGGTGGAGGCAAATCTTCGT	ACCCTGTTAATCCGTTTCGTTTT
ABCC1	CTCTATCTCTCCCGACATGACC	AGCAGACGATCCACAGCAAAA
ABCB1	TTGCTGCTTACATTCAGGTTTCA	AGCCTATCTCCTGTTCGCATTA
TOP2B	AGCCATTGACGCAGTTCATGT	CCTGGCACAAAGGTAACCTCC
GSTK1	TCTGGAAAAGATCGCAACGC	GCCCAAAGGCTCCGTATCTG
$\beta$ -actin	ACAGAGCCTCGCCTTTGC	GCGGCGATATCATCATCC

Type	PTX (nM)	Cisplatin ( $\mu\text{g/ml}$ )	Vincristine (nM)
HepG2	21.56 $\pm$ 1.17	2.42 $\pm$ 1.15	60.64 $\pm$ 1.46
Quiescent	3185 $\pm$ 1.94	2.42 $\pm$ 1.03	1848 $\pm$ 1.42
Reac	839.7 $\pm$ 1.09	1.86 $\pm$ 1.01	794.8 $\pm$ 1.37
UMUC-3	290.1 $\pm$ 1.06	4.48 $\pm$ 1.32	0.89 $\pm$ 1.22
Quiescent	> 5000	10.67 $\pm$ 1.13	16.83 $\pm$ 1.38
Reac	4769 $\pm$ 2.10	14.23 $\pm$ 1.17	45.36 $\pm$ 1.92

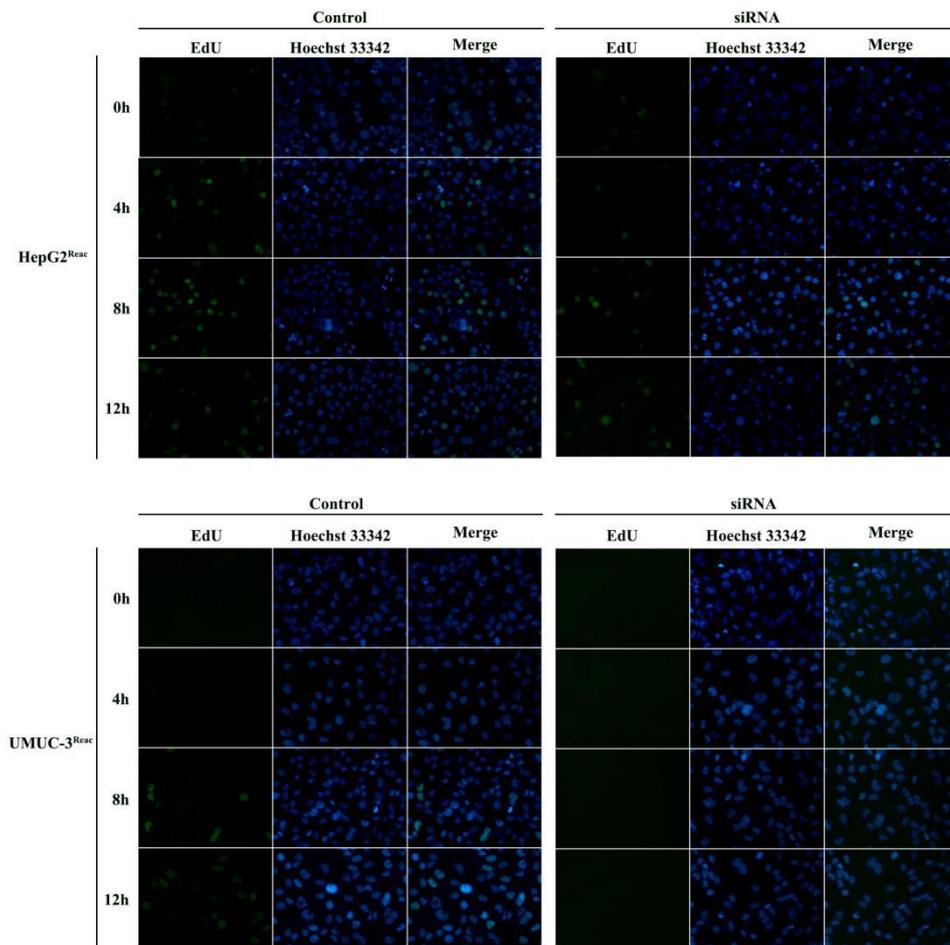
**Figure S1. long-term PTX treatment induces multiple anti-cancer drugs** HepG2 and UMUC-3 Cells were treated with indicative anti-cancer drugs (PTX, vincristine and cisplatin) for 2 days; cell viability was valued by MTS assay. The data are shown as IC<sub>50</sub> (mean  $\pm$ SD of three independent experiments).



**Figure S2. Higher doses of PTX readily induces quiescence of the reactivated cells.** The reactivated cells were treated with indicative concentration of PTX for 3 days, immunofluorescence staining was performed to detect EdU (green) and nucleuses were visualized by Hoechst33342 staining (blue).



**Figure S3. MG132 inhibits reactivated cell entering quiescence.** The reactivated cells were treated with high dose of PTX (HepG2<sup>Reac</sup> 160nM, UMUC3<sup>Reac</sup> 500nM) combined with or without 1 $\mu$ M MG132 for 24h, immunofluorescence staining was performed to detect EdU (green) and nuclei were visualized by Hoechst33342 staining (blue).



**Figure S4. MCM7 siRNA inhibits the reactivation of quiescent reactivated cells.** The reactivated cells were treated with PTX (160nM for HepG2<sup>Reac</sup>, 500nM for UMUC-3<sup>Reac</sup>) for 3 days to induce quiescence and then released into fresh medium, MCM7 siRNA was transfected 24h before the PTX-release, cells were collected at 0h, 4h, 8h and 12h after the PTX-release, immunofluorescence staining was performed to detect EdU (green) and nucleuses were visualized by Hoechst33342 staining (blue).