SUPPLEMENTARY INFORMATION

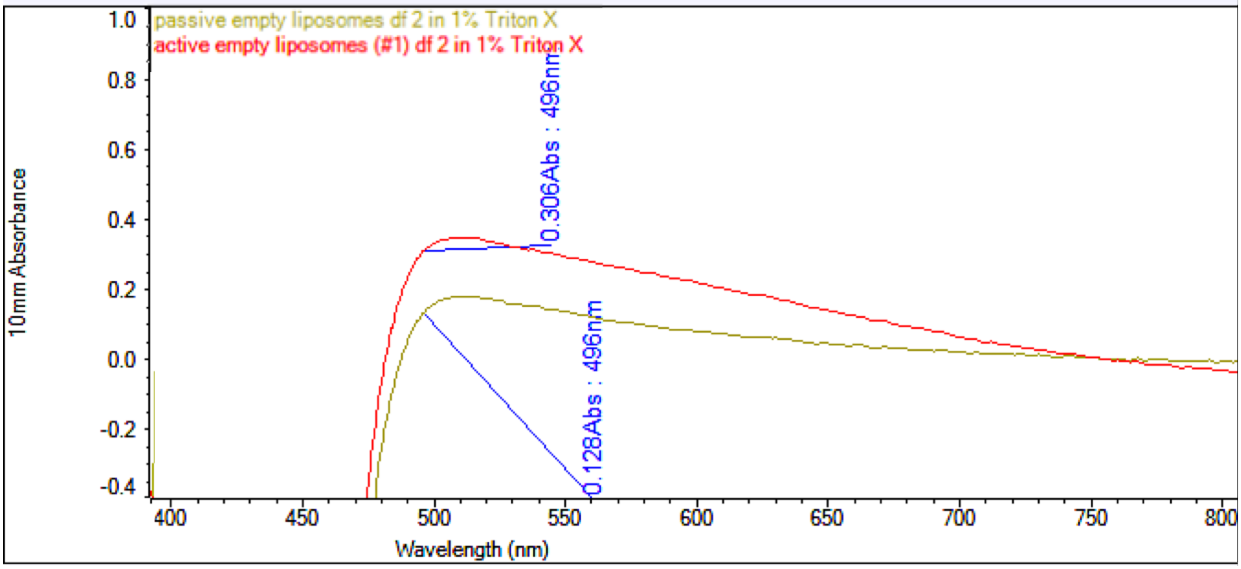

Figure S 1. The absorbances of FITC at 496 nm were measured for passive and active empty liposomes to ensure that the FITC was incorporated into the lipid bilayer of the liposomes. The active empty liposomes were diluted accordingly in DI water to keep the concentrations of FITC similar for cellular uptake studies. A dilution factor of 2 was used above in the detergent Triton-X (1%). The samples were vortexed gently to rupture the liposome prior to checking the absorbance of FITC using UV-Vis spectroscopy.

Table S.1. shows the average results of showing the increase in G2/M phase cell population for MDA-MB-231 when treated with curcumin compared with MCF-12A.

Table S.1: % change in the cell population during the cell cycle analysis showing increase in G2/M phase for MDA-MB-231 upon curcumin treatment. (n=2)

	MCF-12A				**MCF-12A**		
	Average (%)				**Standard Deviation**		
	G0/G1	**S**	**G2/M**		**G0/G1**	**S**	**G2/M**
Control	85.1	2.46	8.36		3.48	1.08	3.15
Free Curcumin	86.17	2.36	7.82		5.95	0.88	3.12
Passive Liposomes	87.53	3.04	6.8		6.12	1.41	3.79
Active Liposomes	87.67	2.3	7.29		1.56	0.13	1.56
	MDA-MB-231				**MDA-MB-231**		
	Average (%)				**Standard Deviation**		
	G0/G1	**S**	**G2/M**		**G0/G1**	**S**	**G2/M**
Control	68.7	6.52	17.75		6.79	0.48	7.00
Free Curcumin	57.5	4.825	29.3		3.96	1.51	1.69
Passive Liposomes	59.2	2.21	30.47		5.35	1.92	4.06
Active Liposomes	61.9	2.525	28.267		1.33	2.92	2.47

Table S.2. shows the average results of the % positive cells that were obtained from the FITC tagged flow cytometry experiments. The results show that folate targeted liposomes were taken up more by the MDA-MB-231 cells compared to MCF-12A.

Table 2: Average data of % positive cells (n=2)

Figure 6. C.	Avg % (Positive)	
	Average	Standard Deviation
Control MCF - 12A	0.01	0.00
Control MDA - MB - 231	0.04	0.00
PL MCF - 12A	2.53	1.53
PL MDA - MB - 231	4.63	0.72
AL MCF - 12A	2.37	0.31
AL MDA - MB - 231	17.90	2.26