Supporting Figure 2: Transient transfection of progenitor HepaRG cells using EPC/diether-based liposomes. The liposomes of EPC and diether-NH$_2$ (3/2, 5/2 and 1/2, wt/wt) and the reagents Lipofectamine®, FreeStyle™ MAX and MACSfectin® were used to transfect the pmaxGFP plasmid into progenitor HepaRG cells with 4 different charge ratios ($R$). The transfection efficiency was monitored by visualizing the percentage of GFP positive cells in fluorescence microscopy (A, C-F: fluorescence and phase contrast microscopy) using EPC/diether-NH$_2$ 3/2 liposomes (A) compared to untransfected cells (C, control) and cells transfected with the Lipofectamine® (D), FreeStyle™ MAX (E) and MACSfectin® (F). Percentages of positive cells and means of fluorescence were quantified by flow cytometry (B, example of the efficient transfection using the Egg-PC/diether-NH$_2$ 3/2 liposomes.
Supporting figure 2A-B
Supporting Figure 3: Transient transfection of HEK293T cells using EPC/diether-based liposomes. The EPC and diether-NH$_2$ 3/2 liposomes and the reagents Lipofectamine®, FreeStyle™ MAX and MACSfectin® were used to transfect the pmaxGFP plasmid into HEK293T cells with 4 different charge ratios ($R$). The transfection efficiency was monitored by visualizing the percentage of GFP positive cells in fluorescence and contrast microscopy using EPC/diether-NH$_2$ (3/2 wt/wt) liposomes (A) compared to cells transfected with the Lipofectamine® (B), FreeStyle™ MAX (C) and MACSfectin® (D).
Supporting Figure 4: Schematic representation of the XRE-pGL3 biosensor plasmid. The XRE-responsive element (sequence: ttctacgcaacgcgcggcaggcaagctcttctacgcagct) has been subcloned in pGL3 vector using the KpnI (5’ end) and SacI (3’ end) restriction sites.
XRE-responsive element (TTTCACGCAACCGCGGCGGCAGGCAAGCTTTTCTACGCGAGCT) has been subcloned in pGL3 vector using the KpnI (GGTACC, 5’ end) and SacI (GAGCTC, 3’ end) restriction sites.

Partial sequencing of the XRE-pGL3 biosensor plasmid using the Rvprimer 3:

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The underlined motifs correspond to KpnI and SacI, respectively.

Supporting figure 4