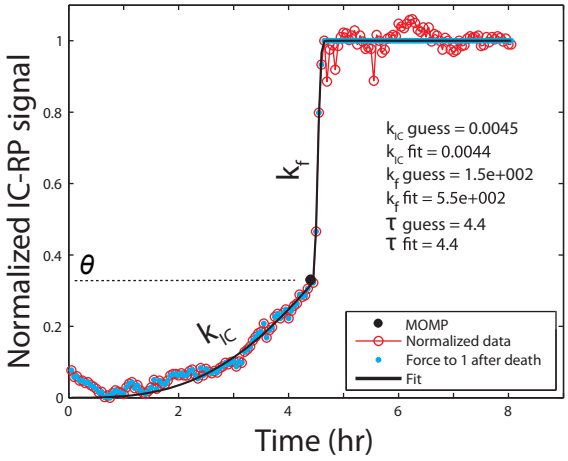
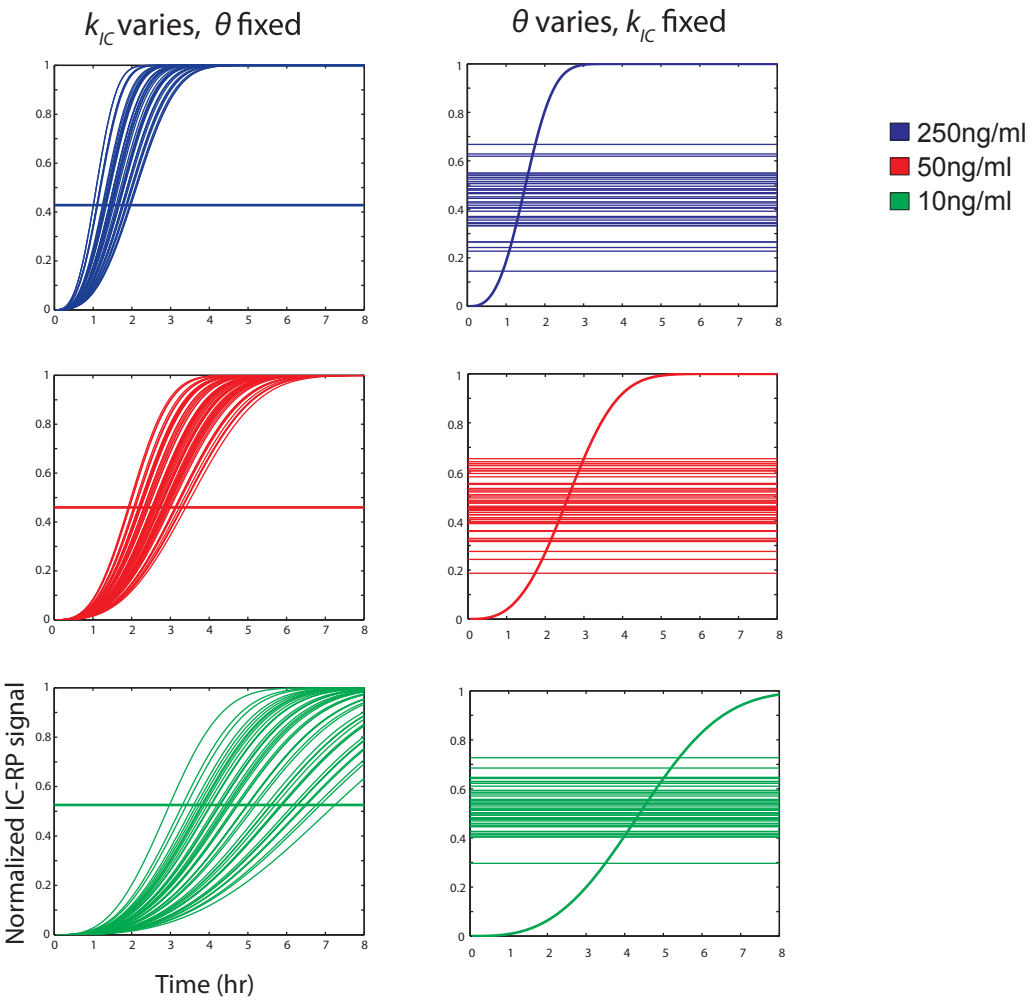
S1. Fitting of IC-RP trajectories

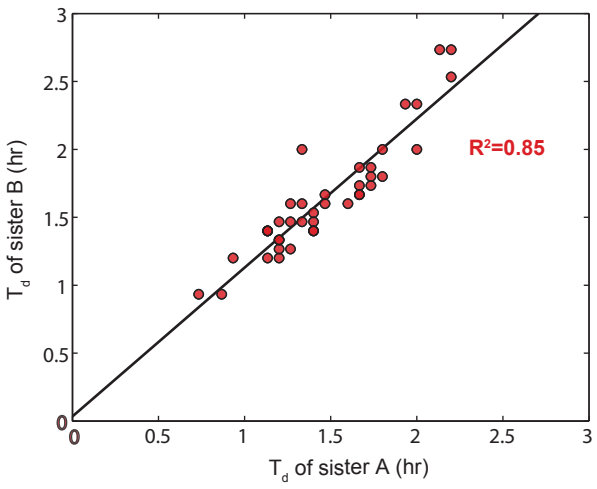


S2. Contribution of k_{IC} vs. θ

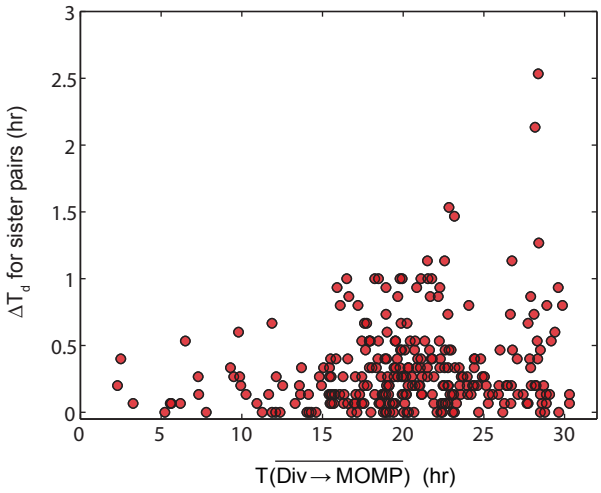


S3. Time of MOMP is highly correlated in sister MCF 10A cells treated with TRAIL + CHX

a



b



S4. Cell fate is highly correlated in sister HeLa cells treated with TRAIL alone

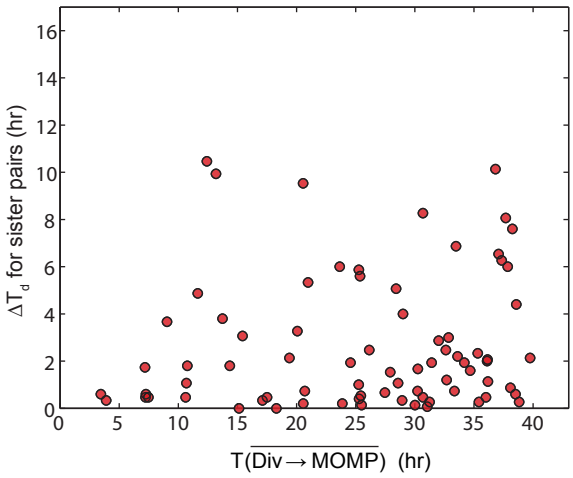
a

Number of cells that died: 210
Number of cells that survived: 158
Total number of cells analyzed: 368
Probability of dying: 0.57
Probability of surviving: 0.43

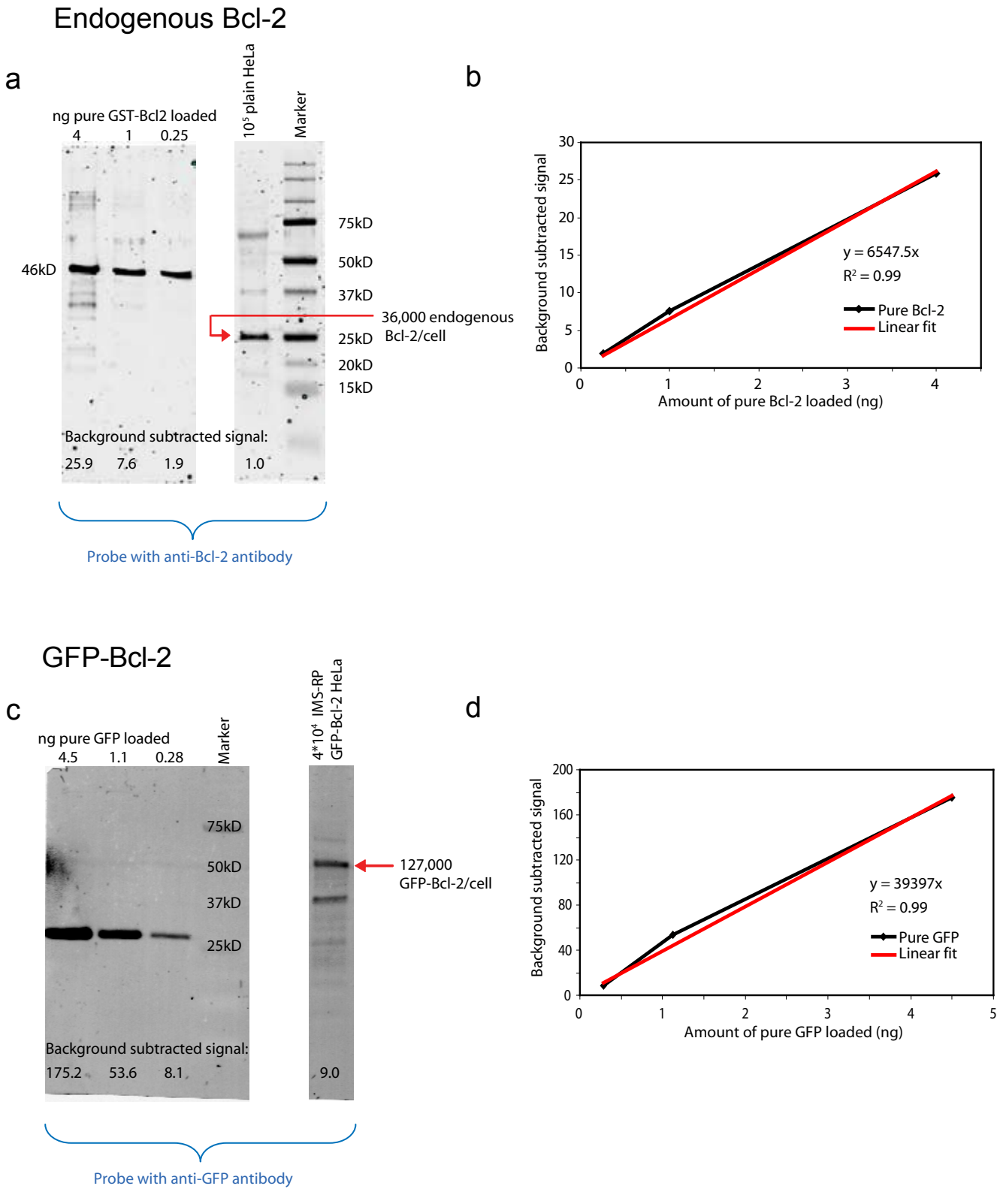
Fates of sister pairs:	Live-Live	Live-Die or Die-Live	Die-Die
Expected fraction:	0.184	0.490	0.326
Expected number:	33.92	90.16	59.92
Observed number:	50	58	76

Chi² value = 23.41
Degrees of freedom = 2
p-value = 8.24 x10⁻⁶

b



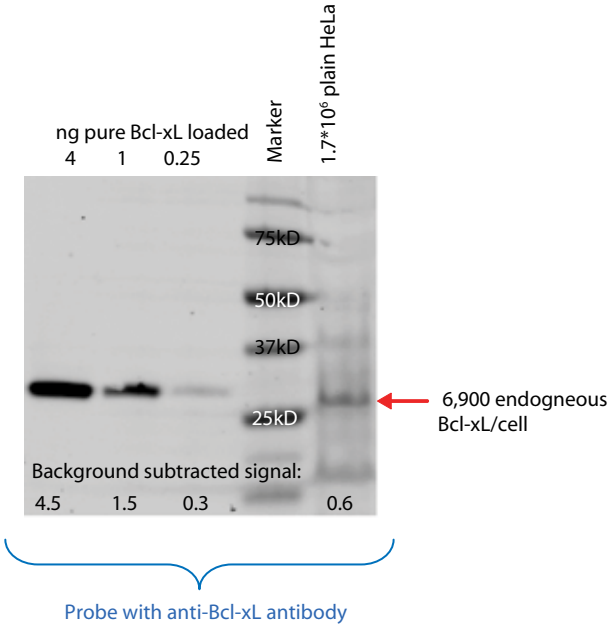
S5. Quantitative immunoblots for endogenous Bcl-2 and GFP-Bcl-2 in HeLa cells



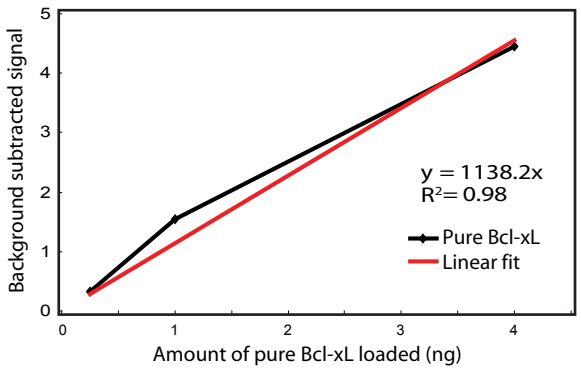
S6. Quantitative immunoblots for endogenous Bclx-L and GFP-Bcl-xL in HeLa cells

Endogenous Bcl-xL

a

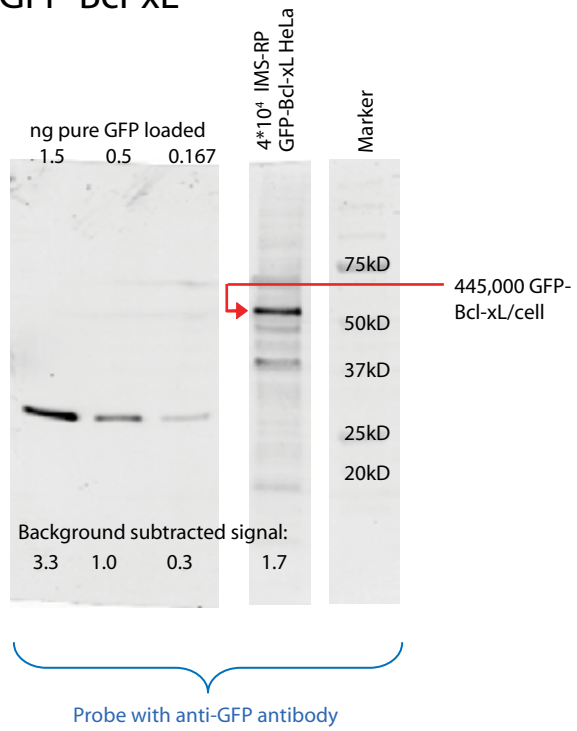


b

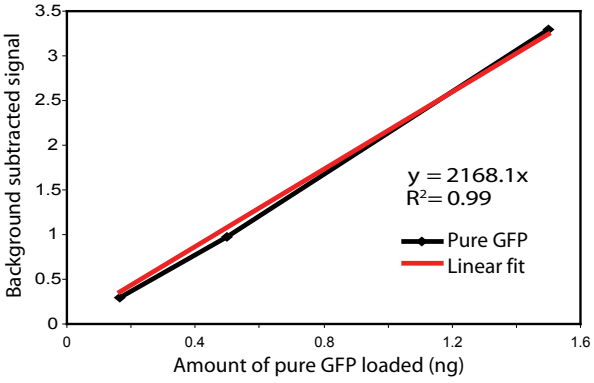


GFP-Bcl-xL

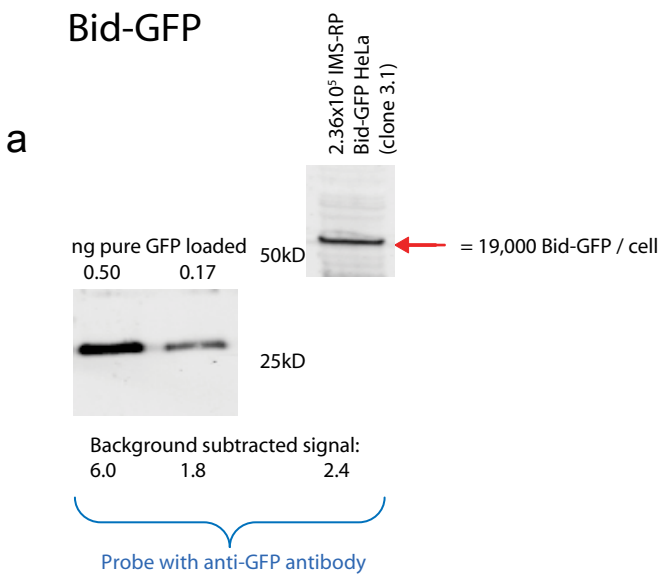
c

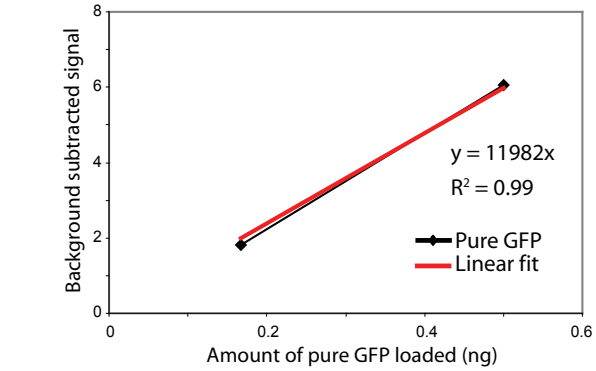


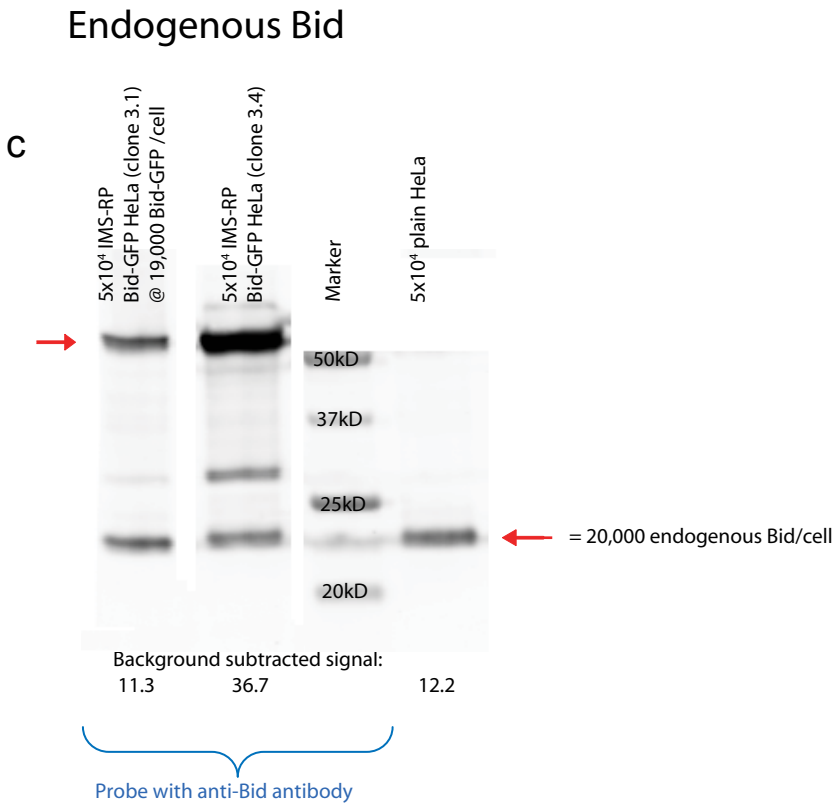
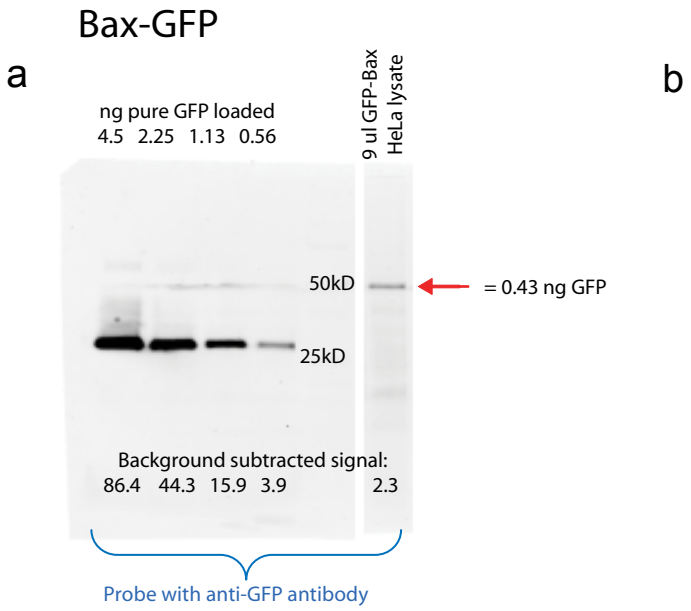
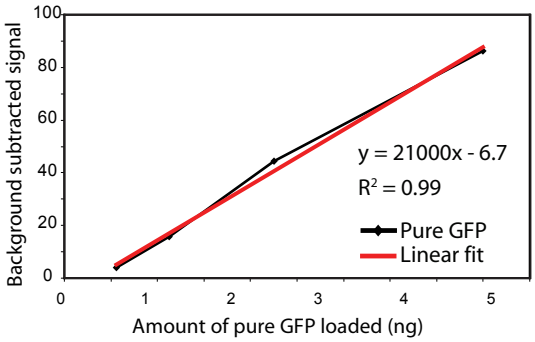
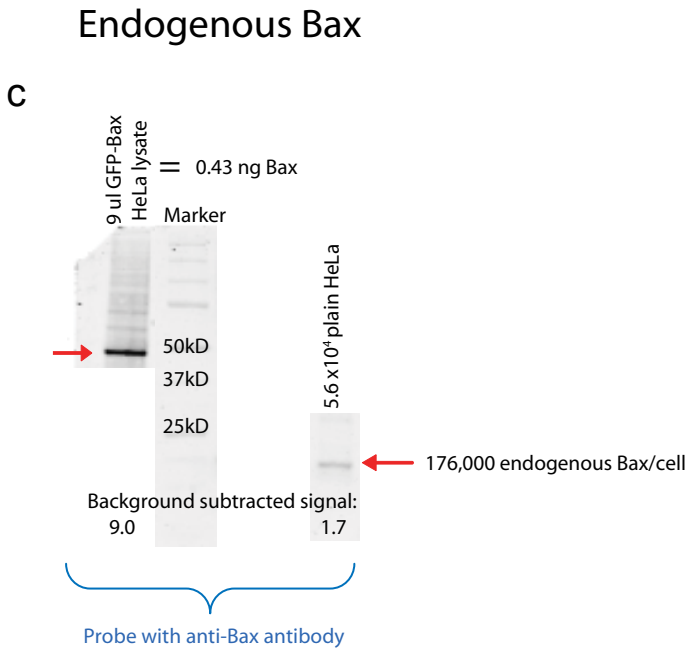
d



S7. Quantitative immunoblots for Bid-GFP and endogenous Bid in HeLa cells







S8. Quantitative immunoblots for GFP-Bax and endogenous Bax in HeLa cells