Supplemental Materials and Methods

Quantitative real-time RT-PCR

Total RNA was isolated from cell lines using the RNeasy Mini kit (Qiagen, Valencia, CA). An iScript cDNA synthesis kit (Bio-Rad, Hercules, CA) was utilized to synthesize single-stranded cDNA from 1 μg total RNA. Quantitative real-time RT-PCR was performed in triplicate using an iCycler (Bio-Rad) with a threshold cycle number determined by use of iCycler software version 3.0. Primers for *PUMA*, *HDM2*, and *HPRT1* were designed, and the results were normalized to *HPRT1* as a stable reference gene for quantitative real-time RT-PCR. All primers were purchased from IDT (Integrated DNA Technologies, Inc., Coralville, IA). The relative mRNA expression levels were calculated according to the formula $2^{(RT-ET)}/2^{(Rn-En)}$, as described previously (36).

Supplemental Figure legends

Supplemental Figure 1. AXL inhibits CDDP-induced up-regulation of p73 downstream transcriptional targets

OE33 cells stably expressing AXL or pcDNA4 were treated with vehicle or CDDP (10 μmol/L) for 24h and then subjected to qRT-PCR analysis. **A)** After treatment with CDDP, the relative mRNA expression of *PUMA* was 3.5-fold higher in control cells than AXL-expressing cells (p=0.01). **B)** *HDM2* mRNA expression was approximately 2-fold higher in control cells than AXL-expressing cells (p=0.006) in response to CDDP. Results are representative of three experiments and shown as the mean ± SD.