

Figure 1. Anti-apoptotic Bcl-xL is highly expressed in GBM samples and GBM cell lines, and correlated with worse prognosis.

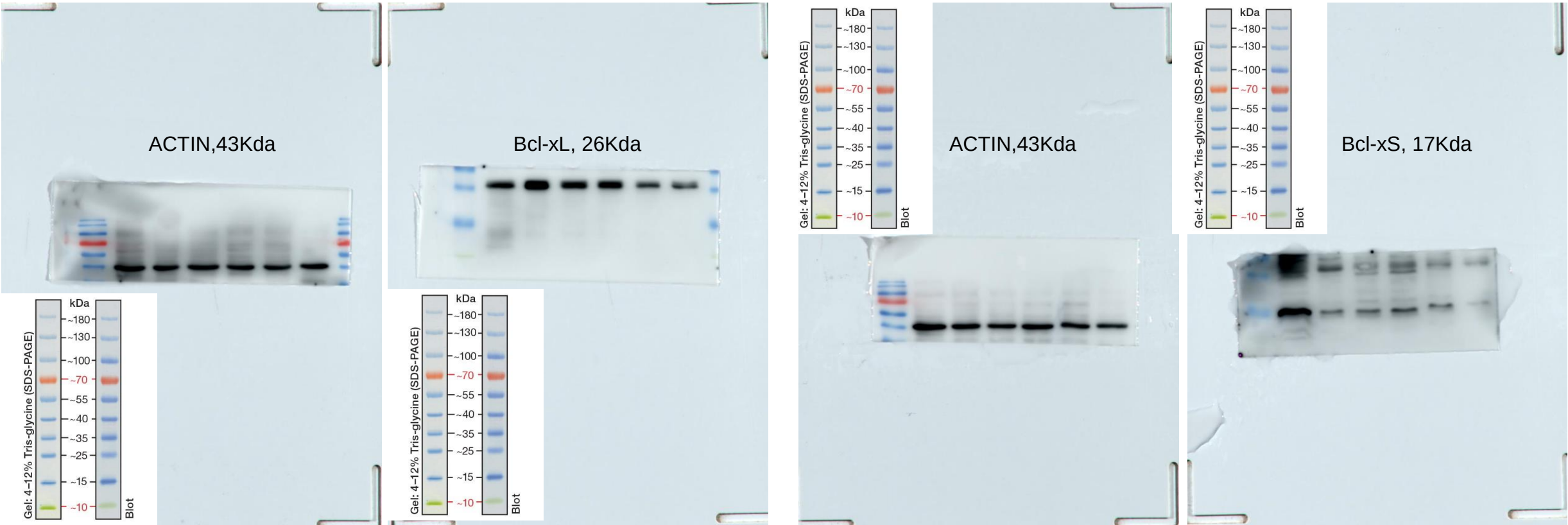


Figure 2. Effect of X-ray and heavy ion irradiation on the alternative splicing and expression of Bclx gene.

Figure. 2A

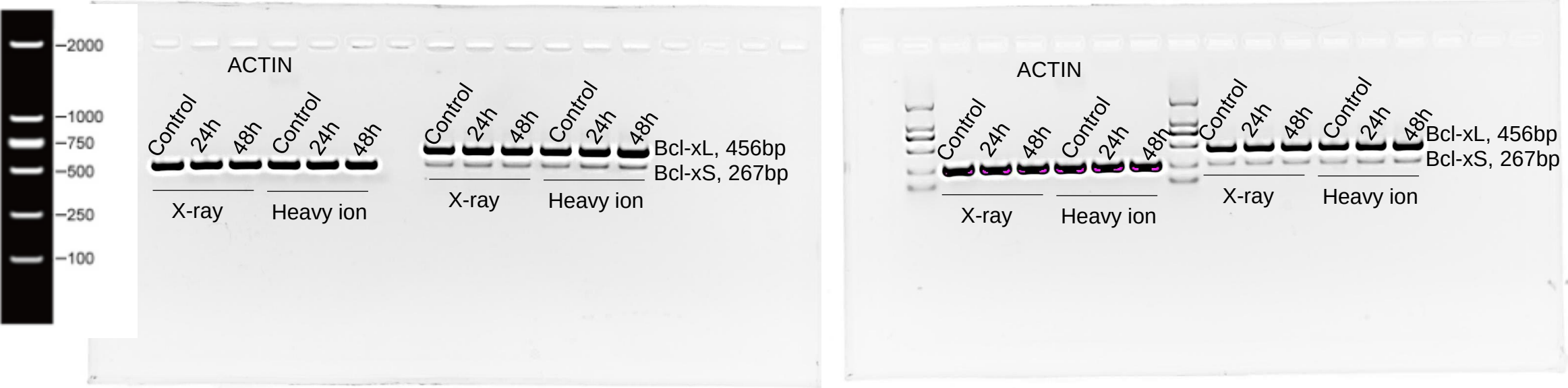


Fig. 2C

X-ray radiation

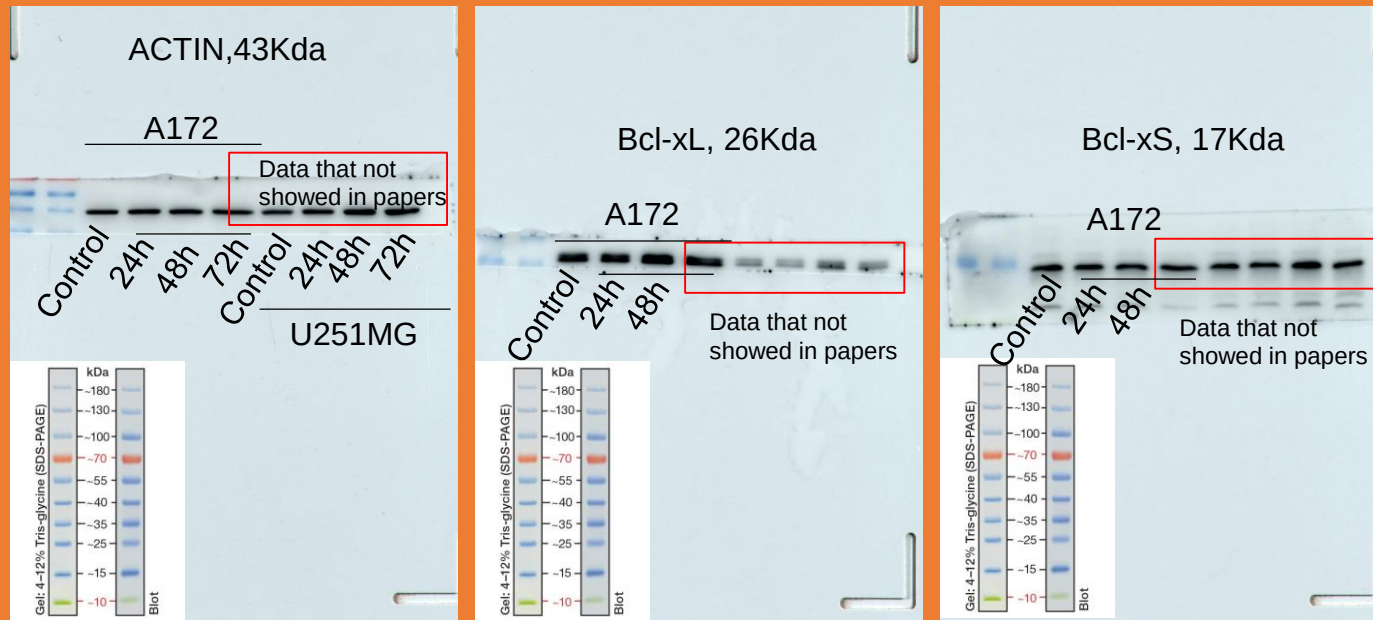


Fig.2G

Heavy ion radiation

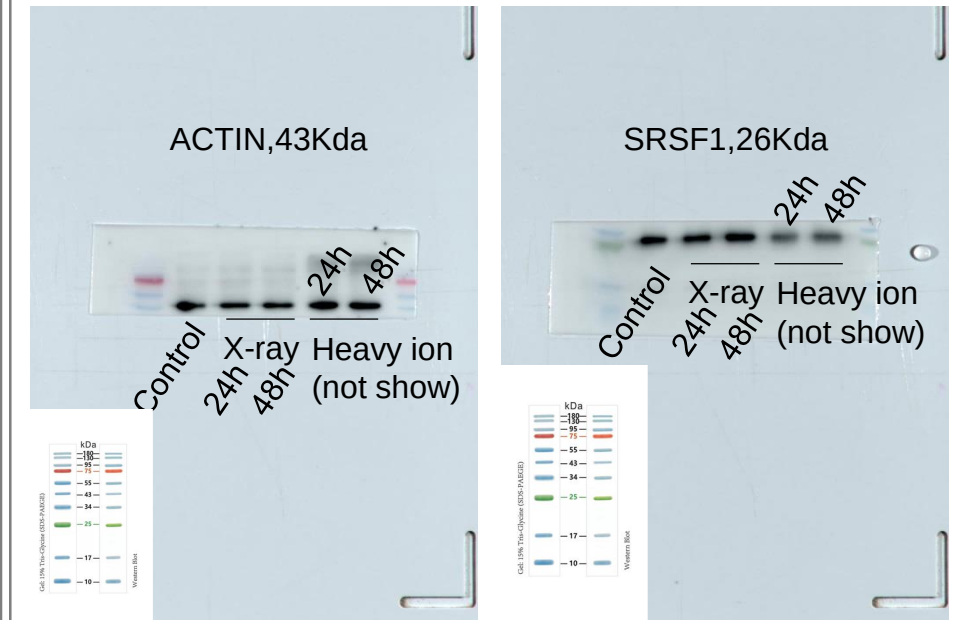
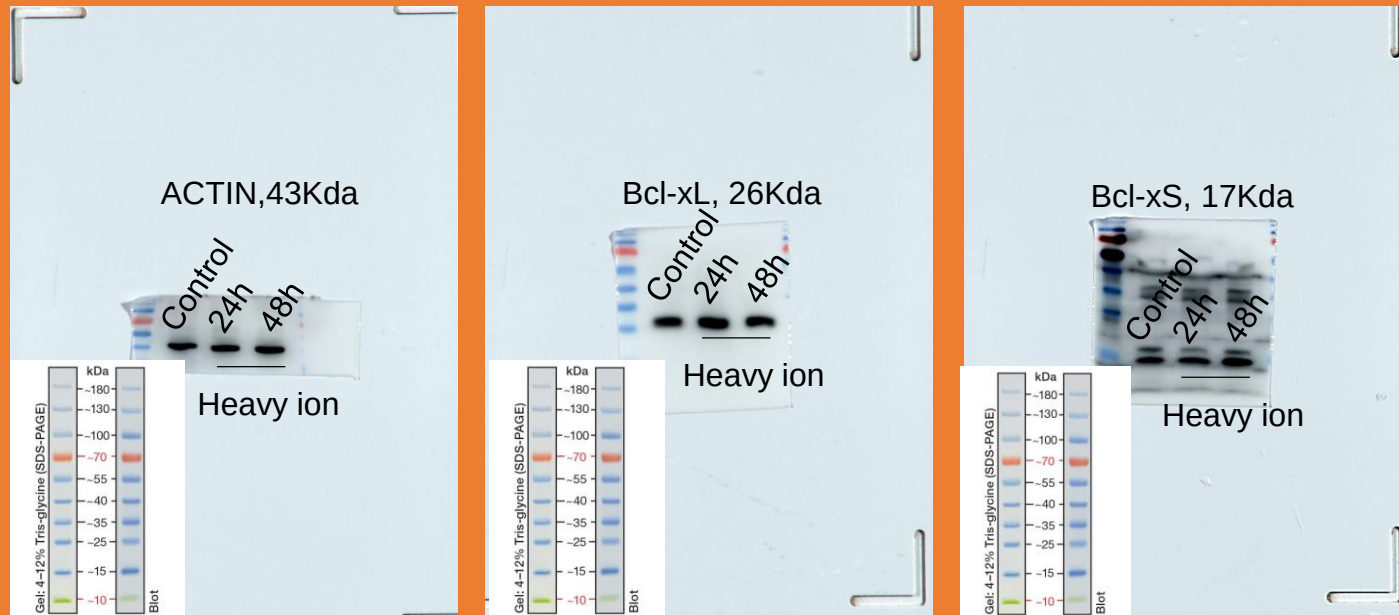


Figure 2. Effect of X-ray and heavy ion irradiation on the alternative splicing and expression of Bclx gene.

Figure 3. vMO regulated Bcl-x splicing mode in GBM cells effectively.

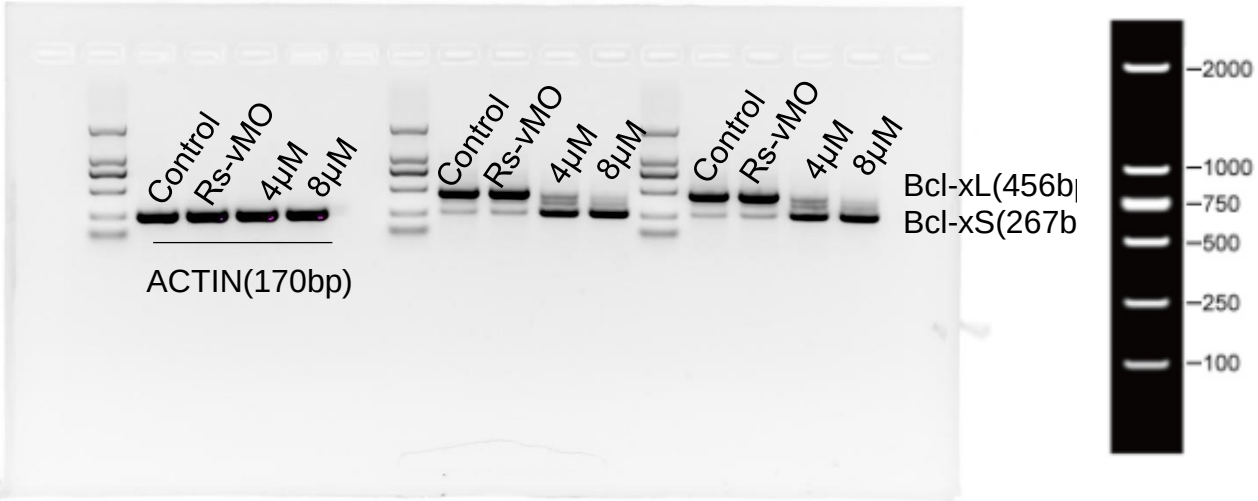


Figure. 3C

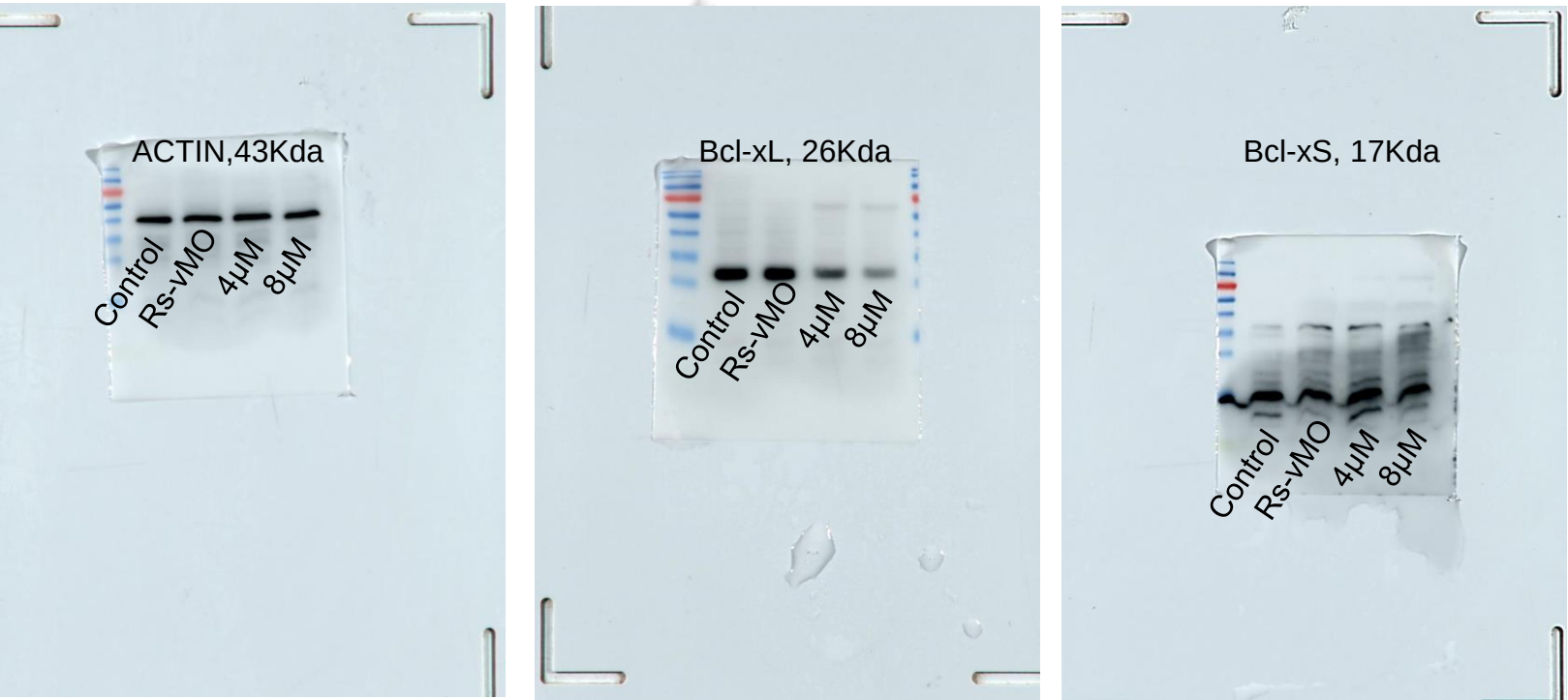


Figure. 3E

Figure 4. Cytotoxicity of GBM cell lines after shift of Bclx Pre-mRNA alternative splicing from Bcl-xL to Bcl-xS.

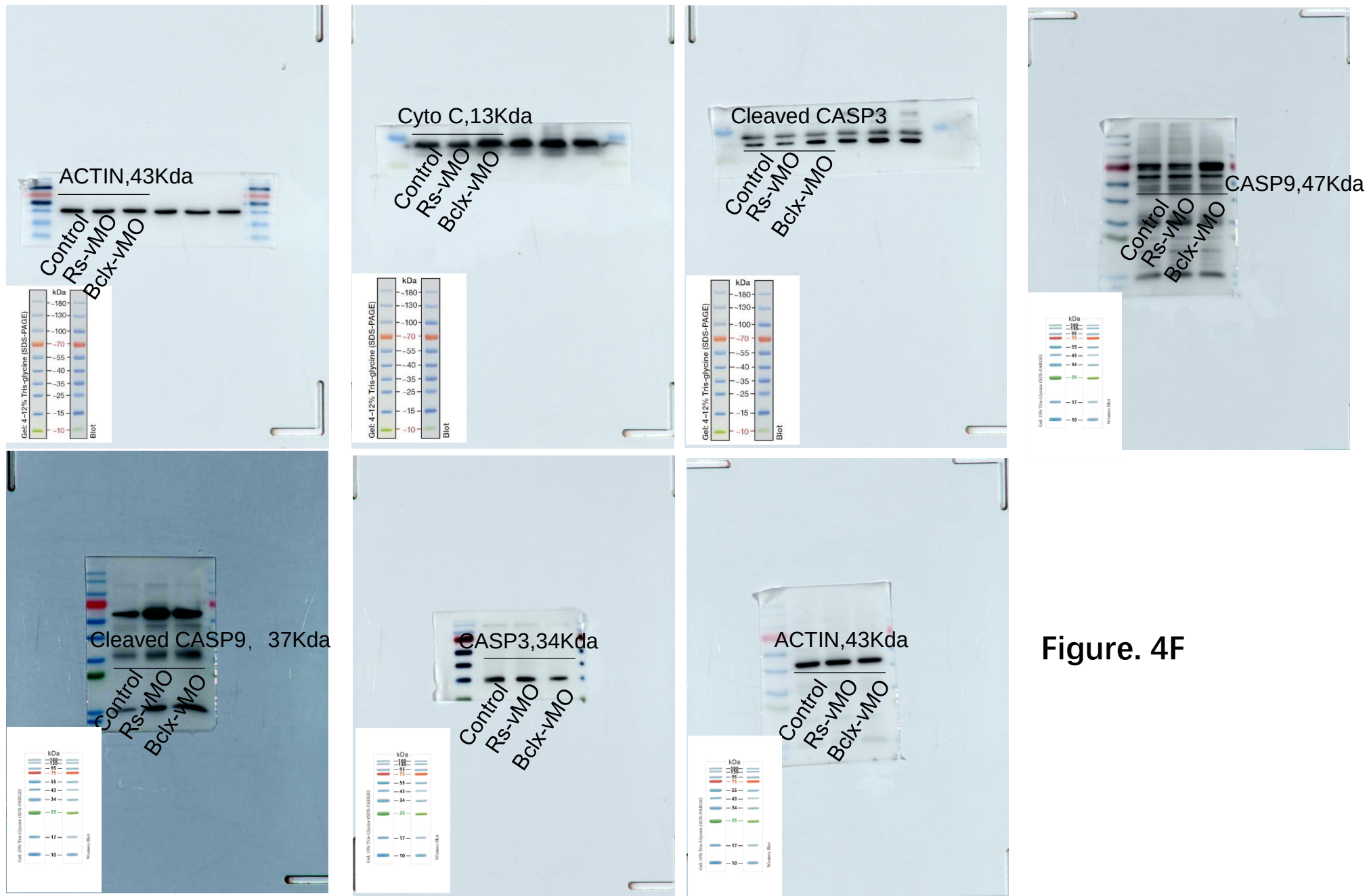


Figure. 4I

A172



HA1800

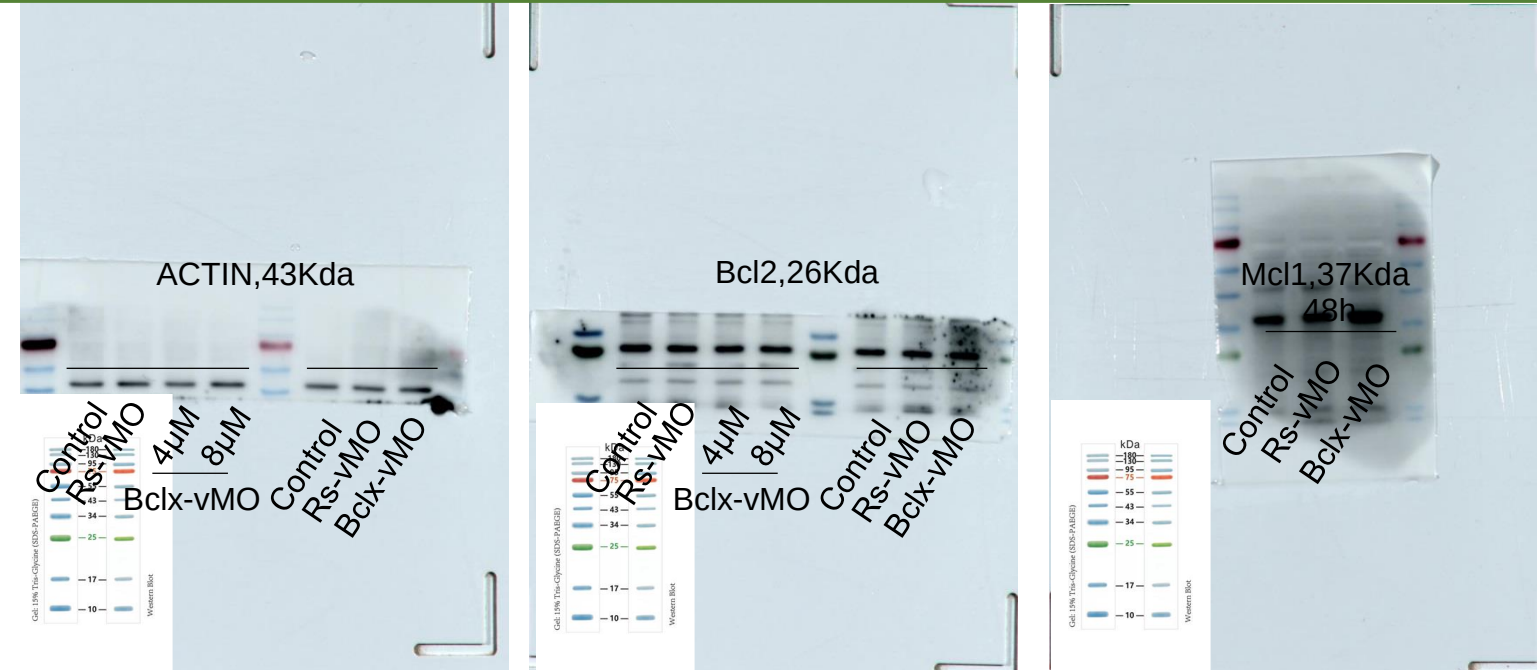


Figure 5 Correction of Bclx pre-mRNA alternative splicing from Bcl-xL to Bcl-xS induces autophagy in A172 cancer cells.

Figure. 5D

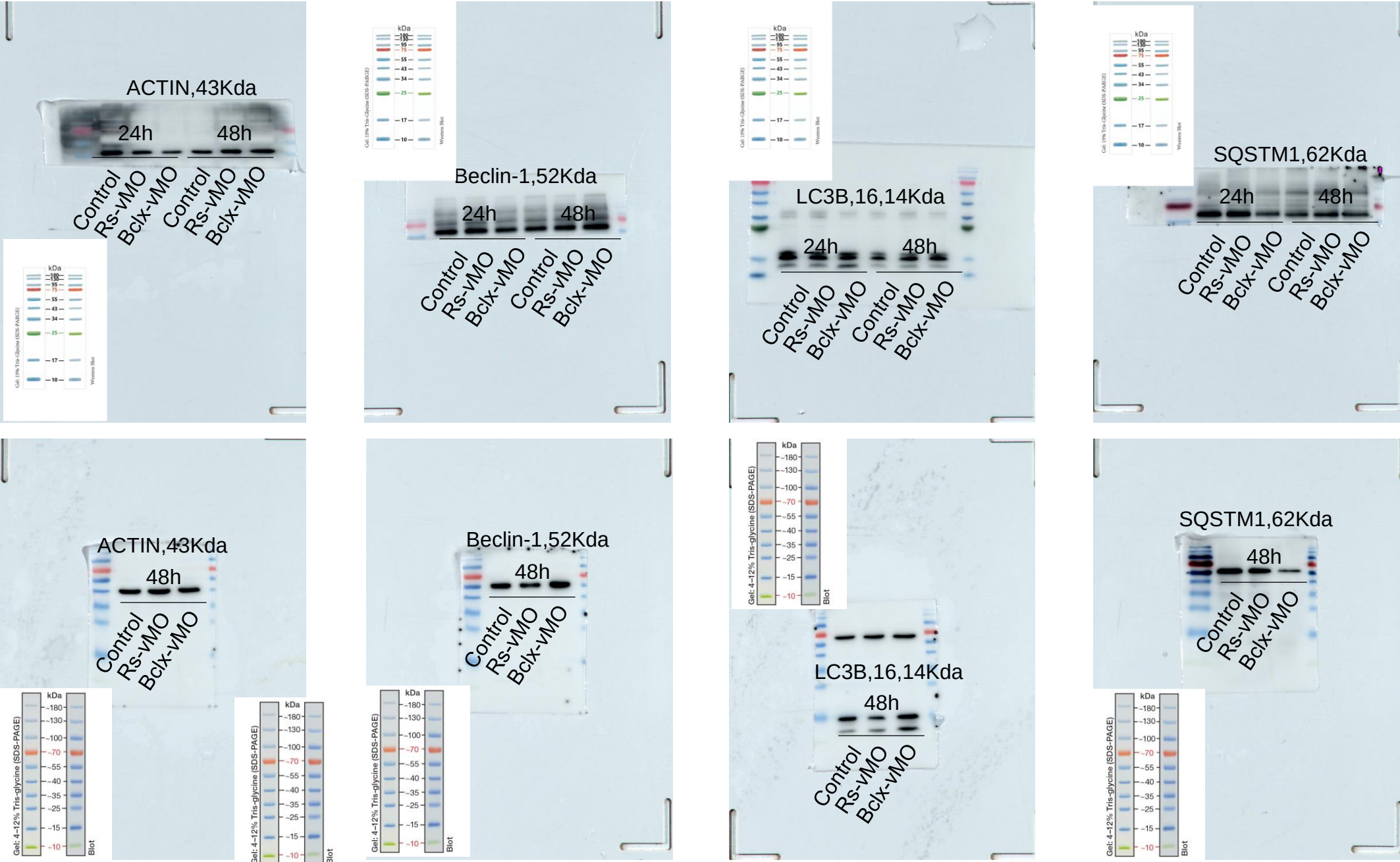


Figure 6 Blocking Bclx splicing regulation-induced autophagy significantly attenuates apoptosis in A172 cells.
Figure. 6E

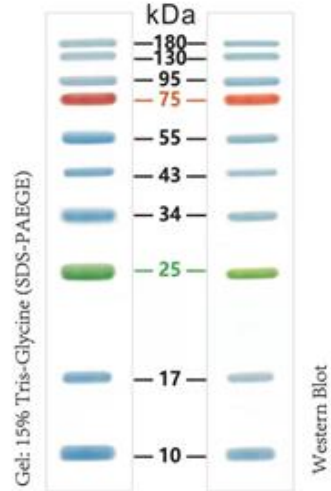
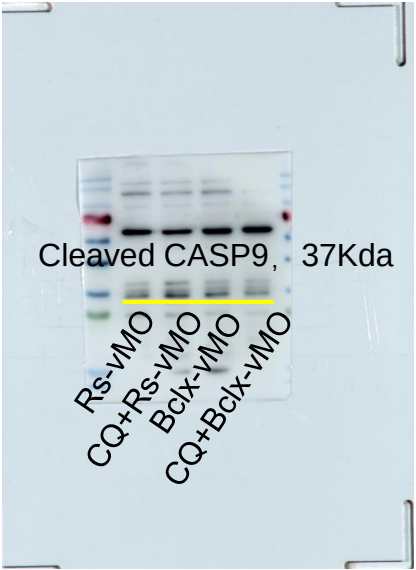
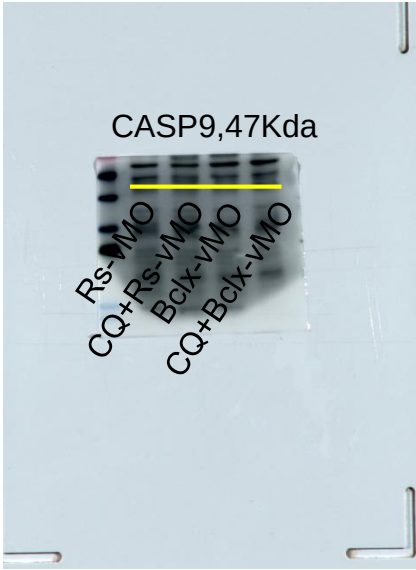
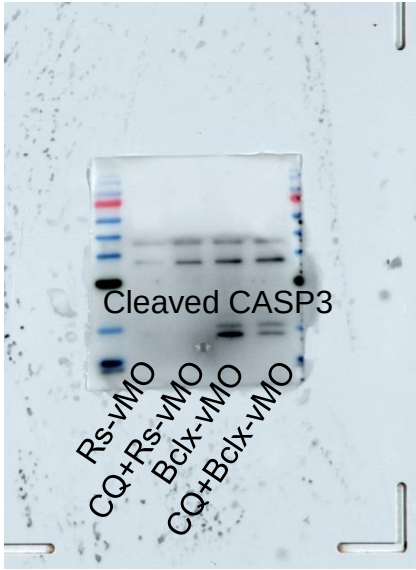
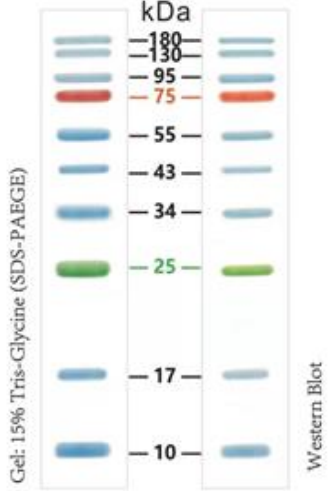
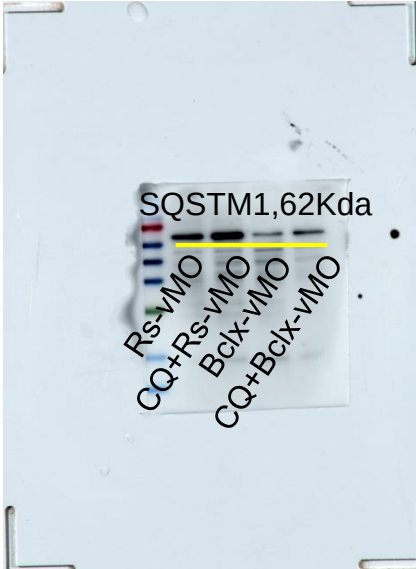


Figure 7 Correction of Bclx splicing from anti-apoptotic Bcl-xL to Bcl-xS sensitizes GBM cancer cells to IR.

