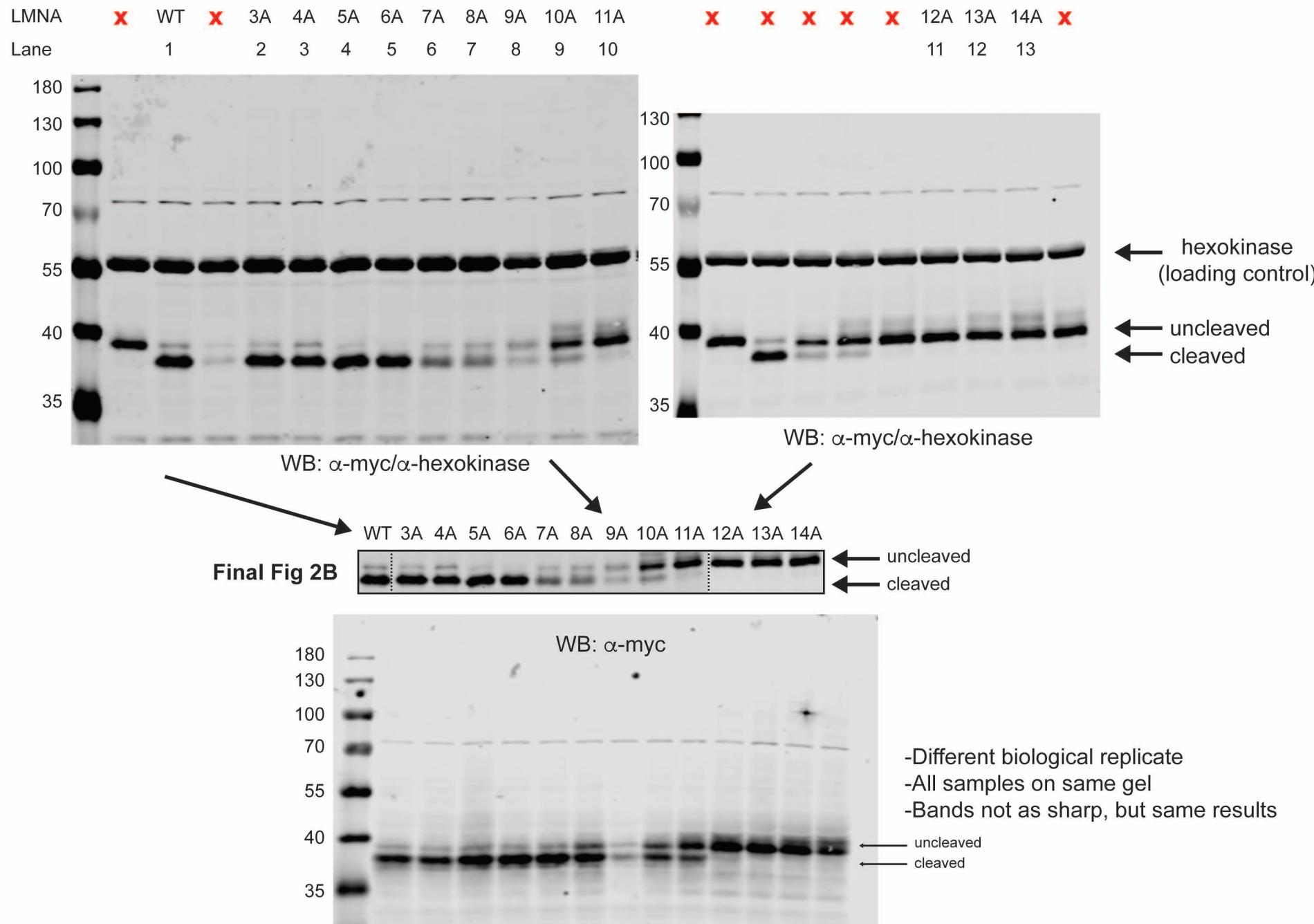
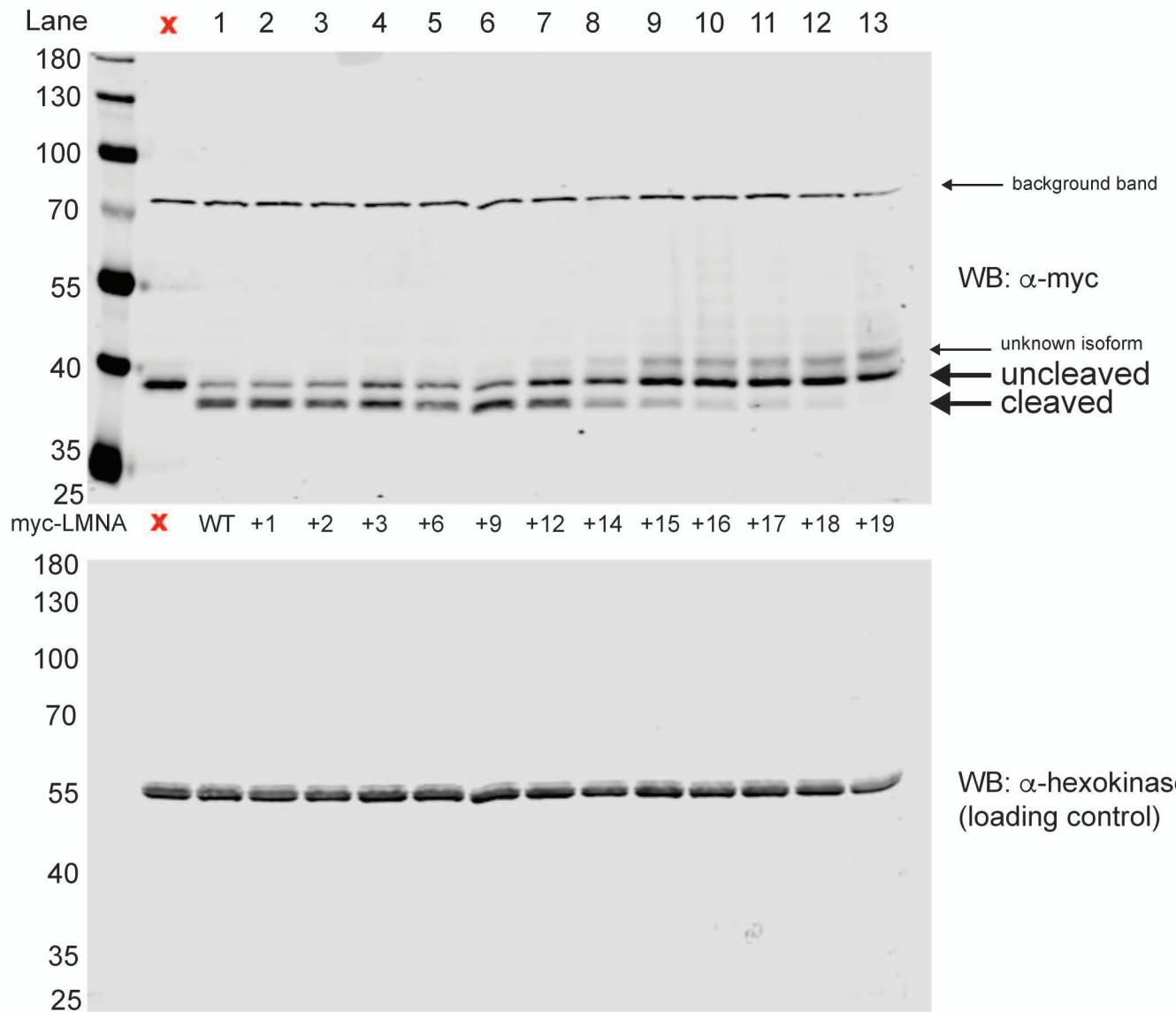


Fig. 2B



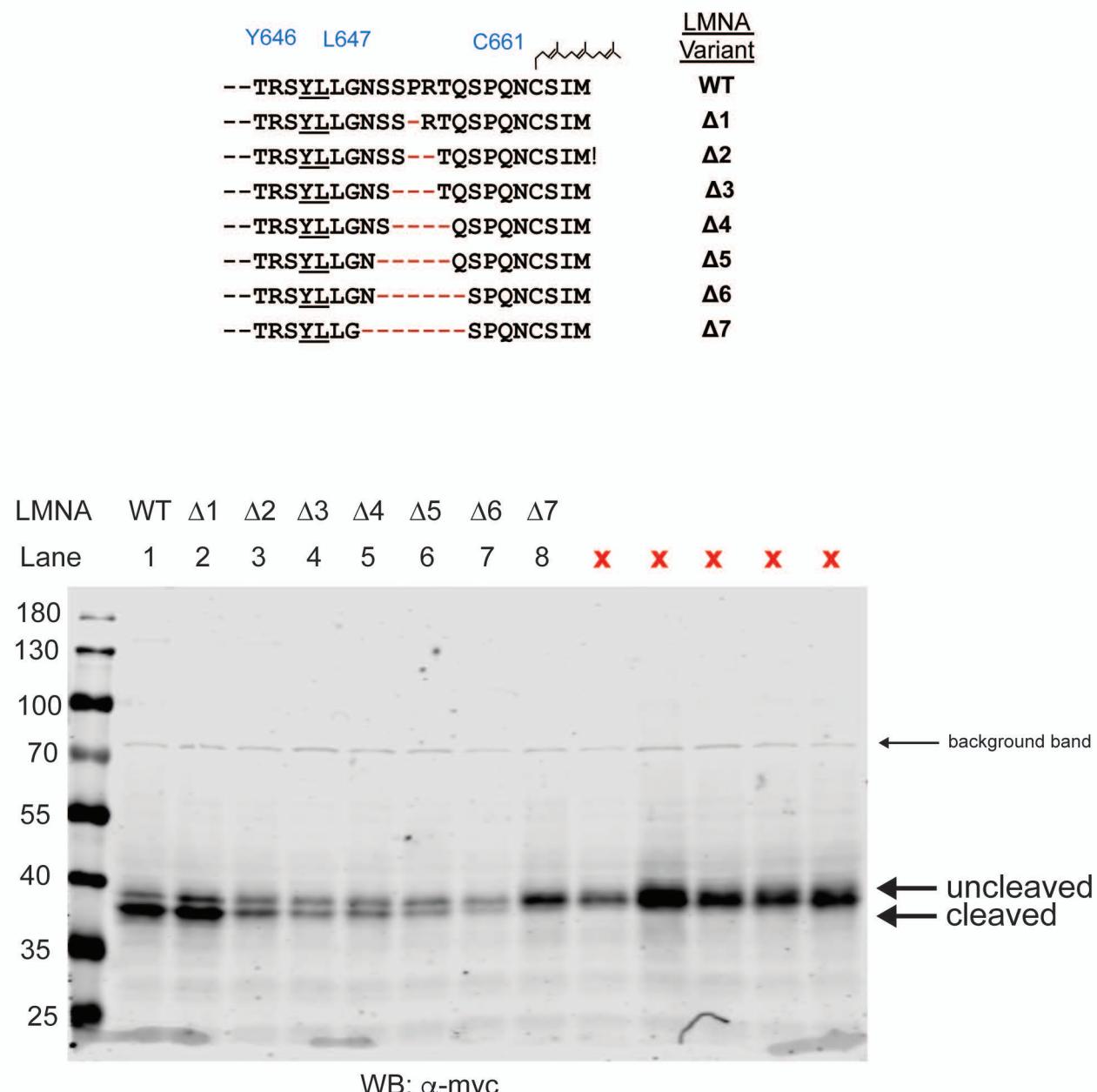
- SDS detergent lysates from strain SM6303 (*ste24Δ HA-ZMPSTE24*) transformed with myc-prelamin A plasmids were resolved by 10% SDS-PAGE, transferred to nitrocellulose (Biorad TransBlot Turbo), and proteins were detected using anti-myc monoclonal antibody and rabbit anti-hexokinase polyclonal antibody (described in M&Ms). Proteins were detected using Licor secondary antibodies and visualized using the Odyssey imaging platform (Licor). Some LMNA mutants show lower steady-state levels (lanes 6-8). This has also been observed for other LMNA mutants.

Fig. 3B

A

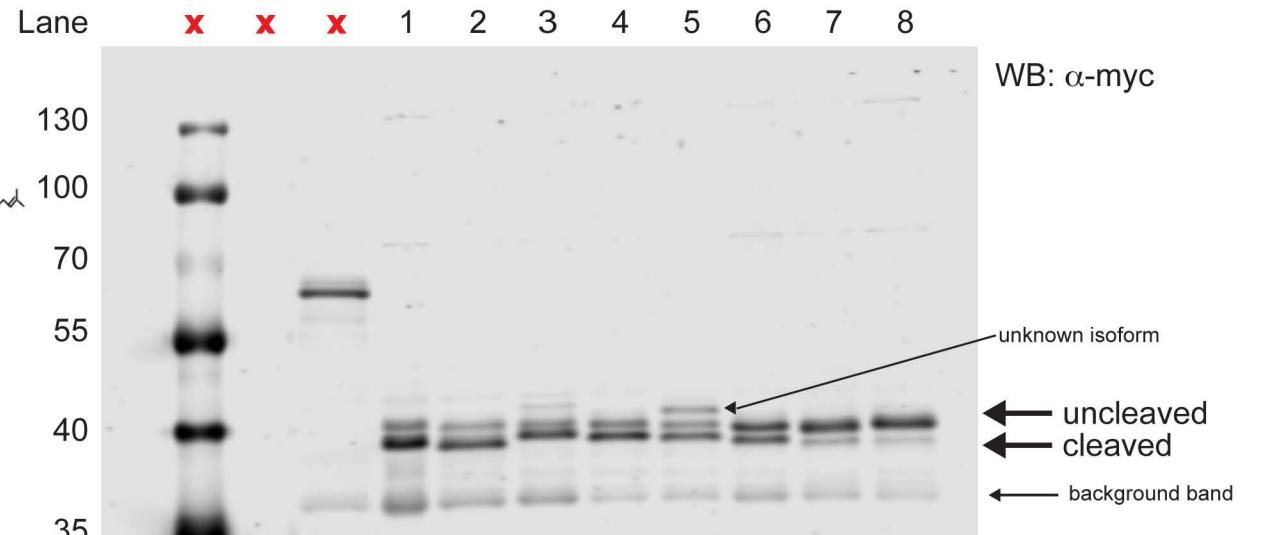
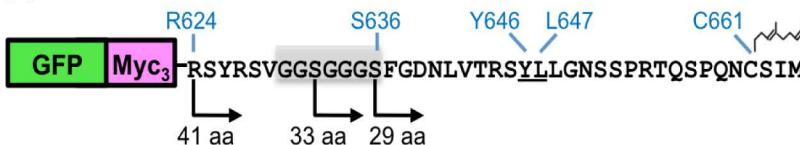
- SDS detergent lysates from strain SM6303 (*ste24* Δ HA-ZMPSTE24) transformed with myc-prelamin A plasmids were resolved by 10% SDS-PAGE, transferred to nitrocellulose (Biorad TransBlot Turbo), and proteins were detected using anti-myc monoclonal antibody and anti-hexokinase polyclonal antibody (described in M&Ms). Proteins were detected using Licor anti-mouse and anti-rabbit secondary antibodies and visualized using the Odyssey imaging platform (Licor). The longer alanine extensions (+14–+19) show a slower migrating species of unknown origin.

Fig. 4B



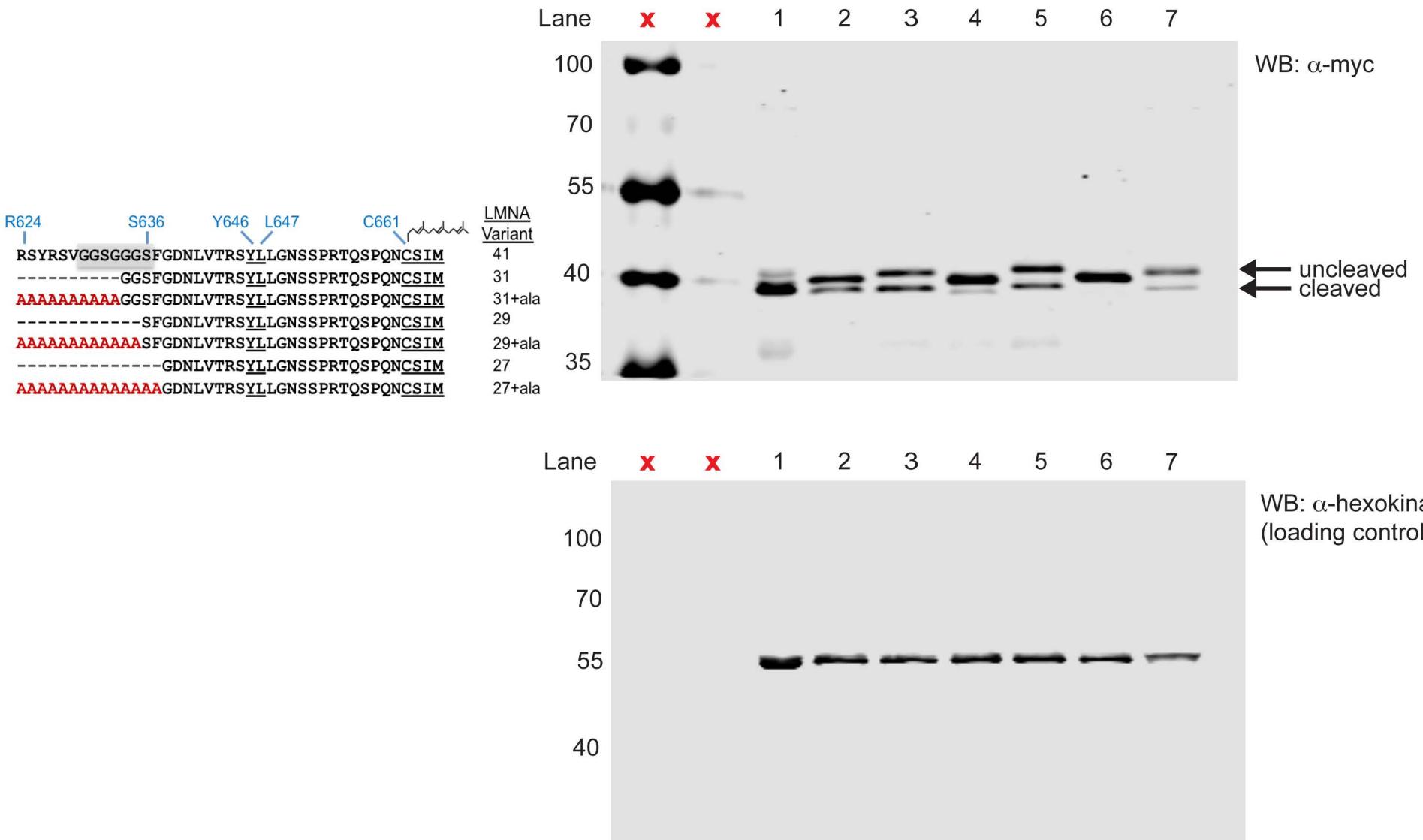
- SDS detergent lysates from strain SM6303 (*ste24Δ HA-ZMPSTE24*) transformed with myc-prelamin A plasmids were resolved by 10% SDS-PAGE, transferred to nitrocellulose (Biorad TransBlot Turbo), and proteins were detected using anti-myc monoclonal antibody (described in M&Ms). Proteins were detected using Licor anti-mouse secondary antibodies and visualized using the Odyssey imaging platform (Licor). Some LMNA mutants show lower steady-state levels (lanes 3-7). This has also been observed in Figure 6B.

Fig. 5B

A

- SDS detergent lysates from strain SM6303 (*ste24Δ HA-ZMPSTE24*) transformed with myc-prelamin A plasmids were resolved by 10% SDS-PAGE, transferred to nitrocellulose (Biorad TransBlot Turbo), and proteins were detected using anti-myc monoclonal antibody and anti-hexokinase polyclonal antibody (described in M&Ms). Proteins were detected using Licor anti-mouse and anti-rabbit secondary antibodies and visualized using the Odyssey imaging platform (Licor). The longer alanine extensions (+14-+19) show a slower migrating species of unknown origin.

Fig. 5D

C

- SDS detergent lysates from strain SM6303 (*ste24 Δ HA-ZMPSTE24*) transformed with myc-prelamin A plasmids were resolved by 10% SDS-PAGE, transferred to nitrocellulose (Biorad TransBlot Turbo), and proteins were detected using anti-myc monoclonal antibody and anti-hexokinase polyclonal antibody (described in M&Ms). Proteins were detected using Licor anti-mouse and anti-rabbit secondary antibodies and visualized using the Odyssey imaging platform (Licor). The longer alanine extensions (+14-+19) show a slower migrating species of unknown origin.

Fig. 6B

A

Y646 L647 C661

LMNA Variant

WT

624-629

630-636

637-642

RSYRSVGGSGGGSFGDNLVTRSYLLGNSSPRTQSPQNCSIM
AAAAAAGGGGGSFGDNLVTRSYLLGNSSPRTQSPQNCSIM
RSYRSV**AAAAAA**FGDNLVTRSYLLGNSSPRTQSPQNCSIM
RSYRSVGGSGGGS**AAAAAA**TRSYLLGNSSPRTQSPQNCSIM

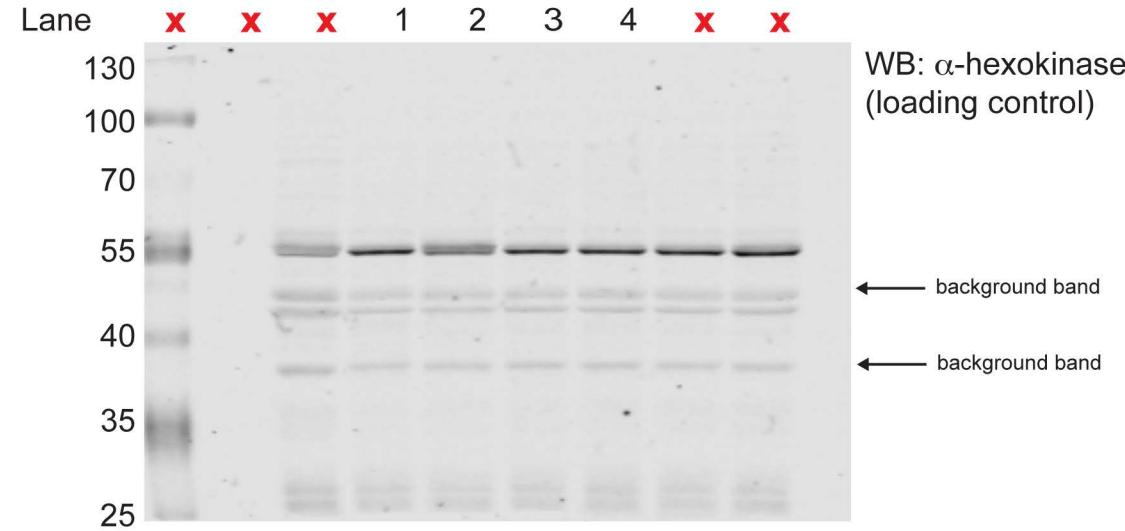
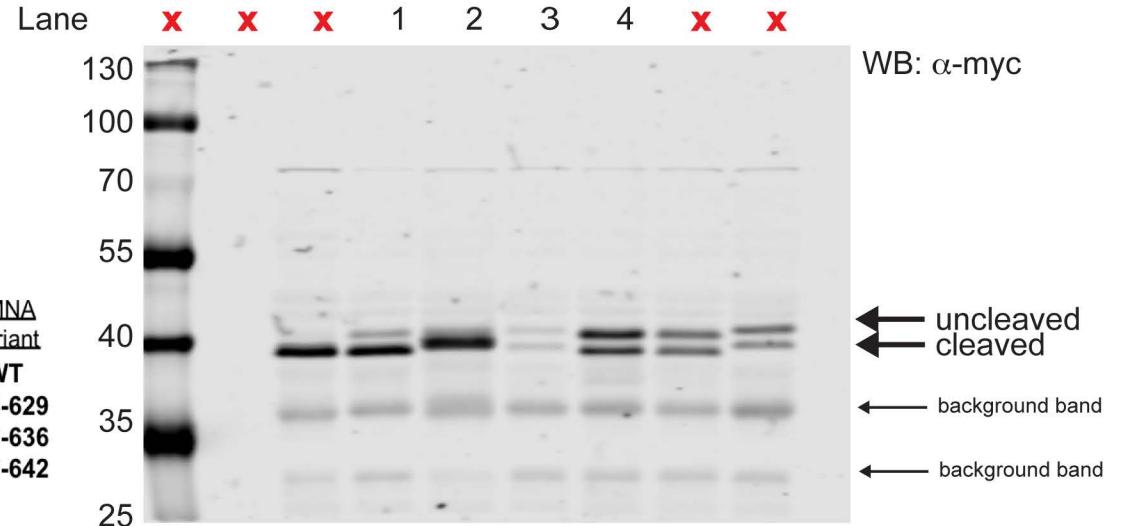
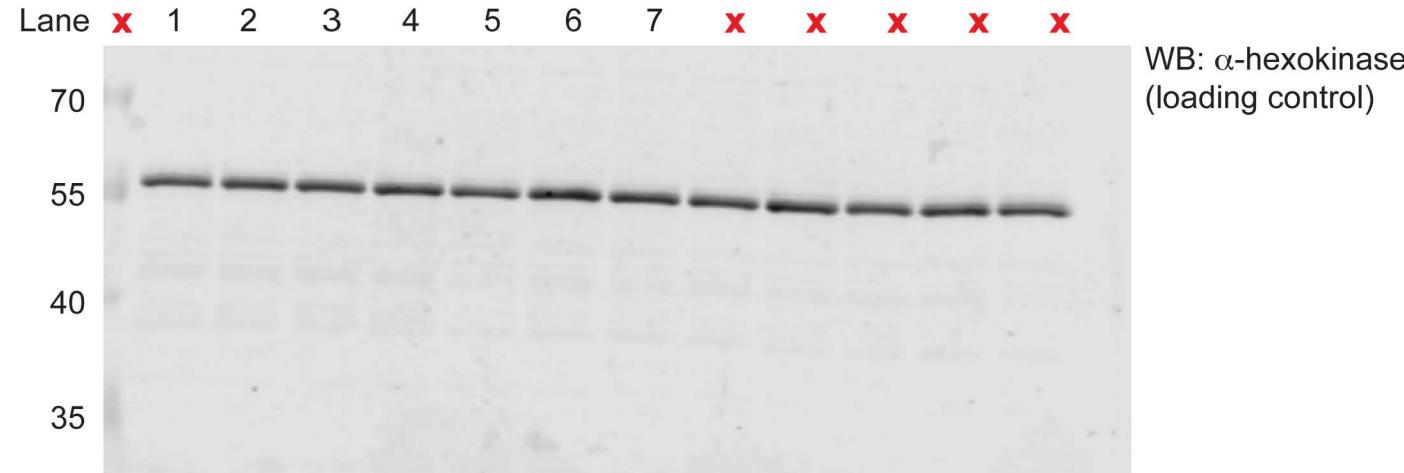
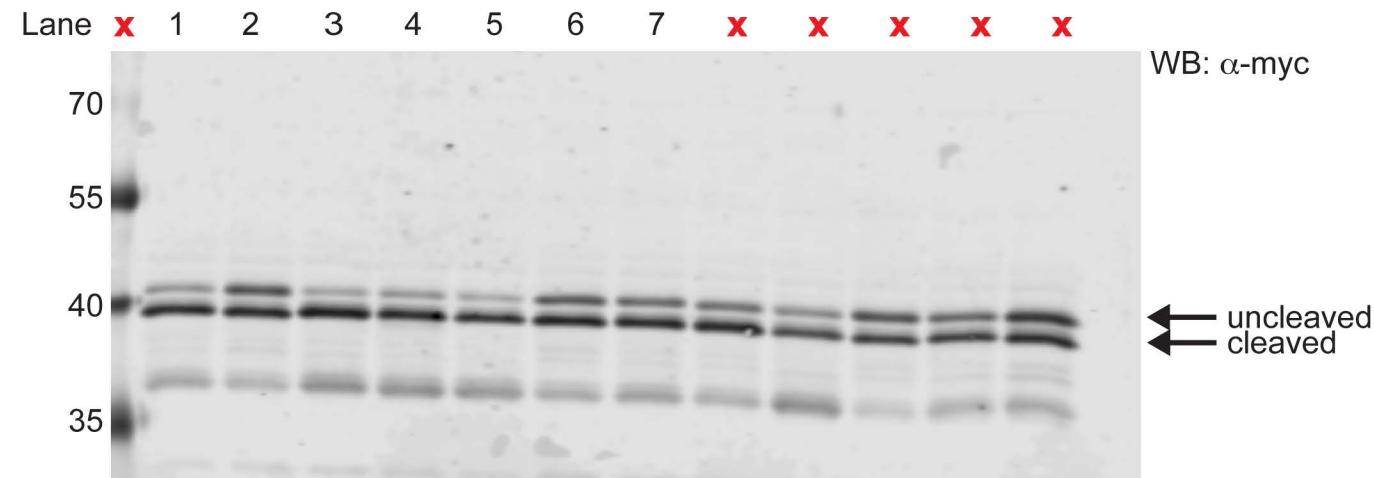


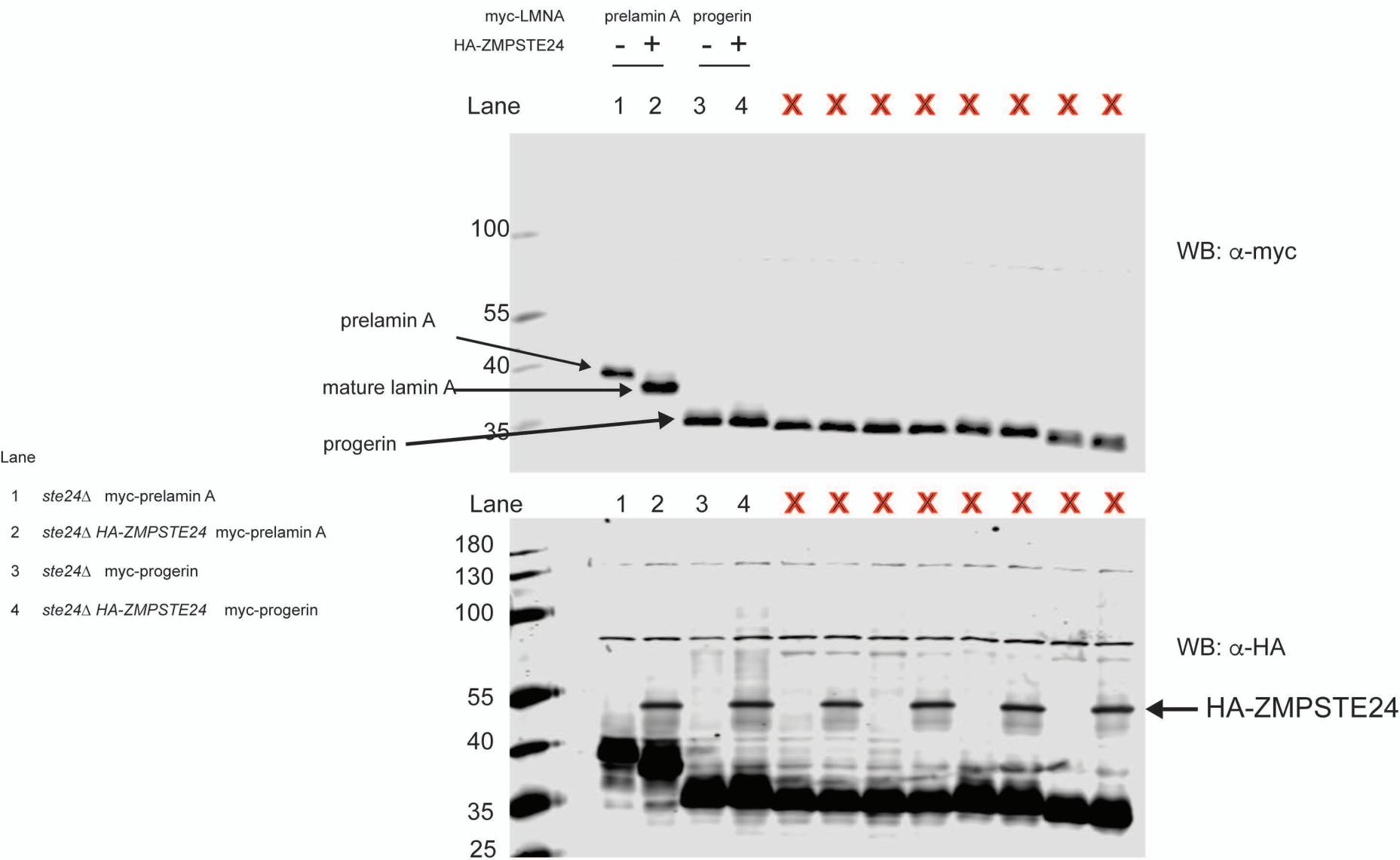
Fig. 6D

C

	F637	Y646	L647	C661	LMNA Variant
RSYRSVGGSGGGSGFDNLVTRSY <u>LL</u> GNSSPRTQSPQNCSIM					WT
RSYRSVGGSGGGSA <u>G</u> DNLVTRSY <u>LL</u> GNSSPRTQSPQNCSIM					F637A
RSYRSVGGSGGGSF <u>A</u> DNL VTRSY <u>LL</u> GNSSPRTQSPQNCSIM					G638A
RSYRSVGGSGGGSF <u>G</u> A <u>N</u> L VTRSY <u>LL</u> GNSSPRTQSPQNCSIM					D639A
RSYRSVGGSGGGSGFD <u>A</u> L VTRSY <u>LL</u> GNSSPRTQSPQNCSIM					N640A
RSYRSVGGSGGGSGFDN <u>A</u> VTRSY <u>LL</u> GNSSPRTQSPQNCSIM					L641A
RSYRSVGGSGGGSGFDNL <u>A</u> TRSY <u>LL</u> GNSSPRTQSPQNCSIM					V642A



Supplemental Fig.S1



- SDS detergent lysates from strains SM4826 (*ste24 Δ*) and SM6303 (*ste24 Δ* HA-ZMPSTE24) transformed with myc-prelamin A (pSM3371) or myc-progerin (pSM3638) were resolved by 10% SDS-PAGE, transferred to nitrocellulose (Biorad TransBlot Turbo), and proteins were detected using anti-myc and anti-HA monoclonal antibodies (described in M&Ms). The myc blot was first developed using Licor anti-mouse secondary antibodies and visualized using the Odyssey imaging platform (Licor). After the myc blot was scanned, anti-HA rat monoclonal antibodies were used to detect HA-ZMPSTE24 (arrow).