

Figure 5A

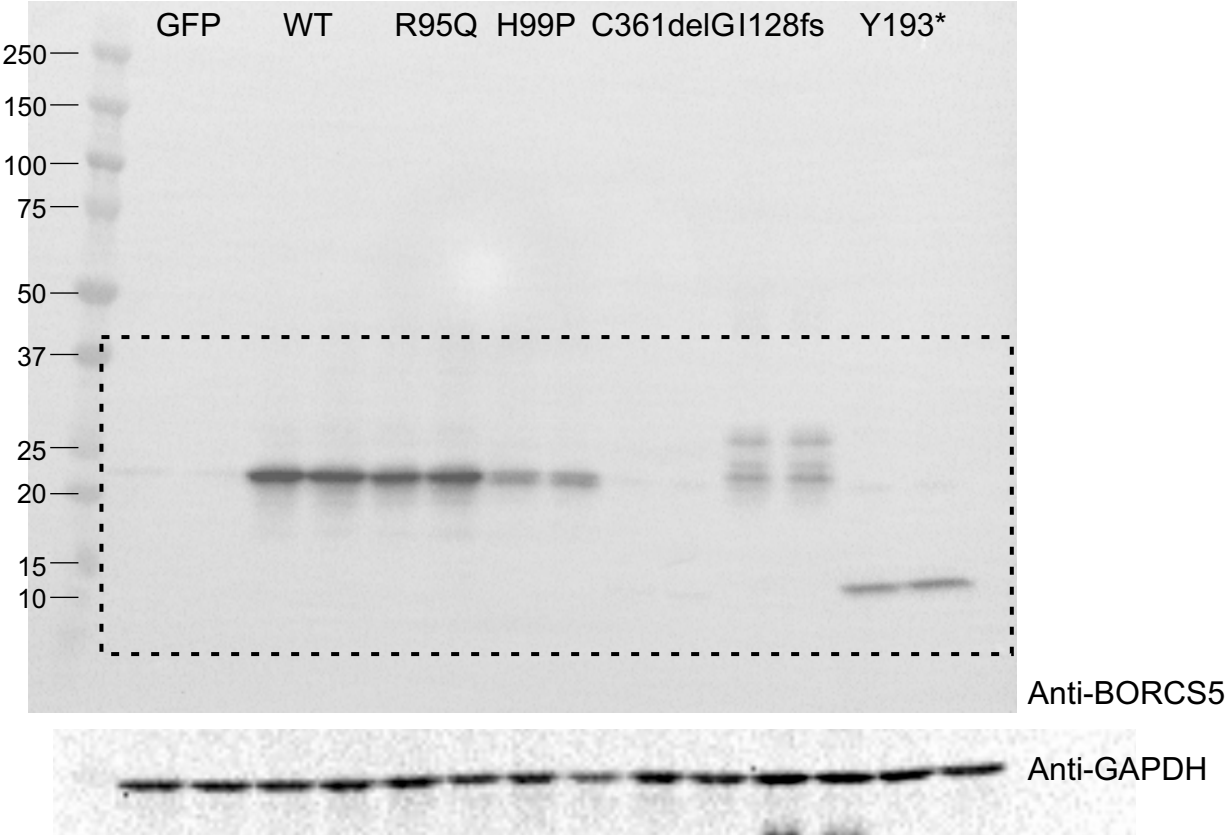


Figure 5B

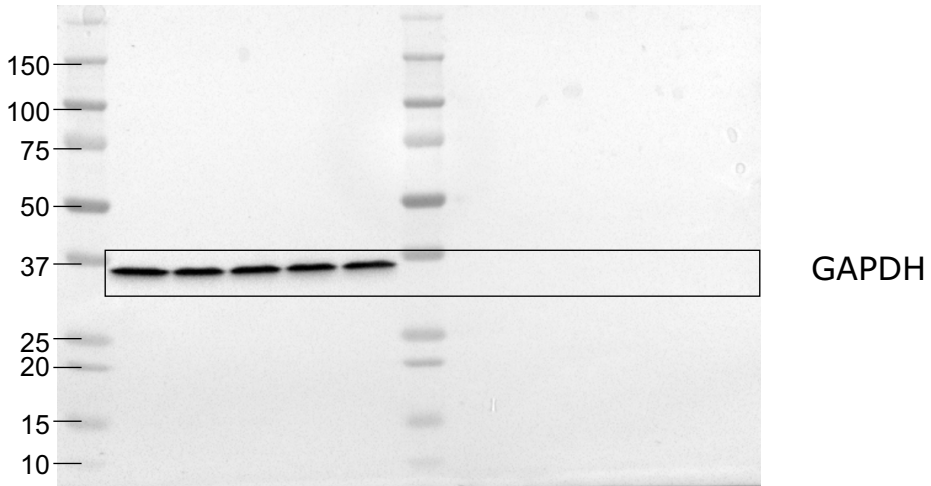
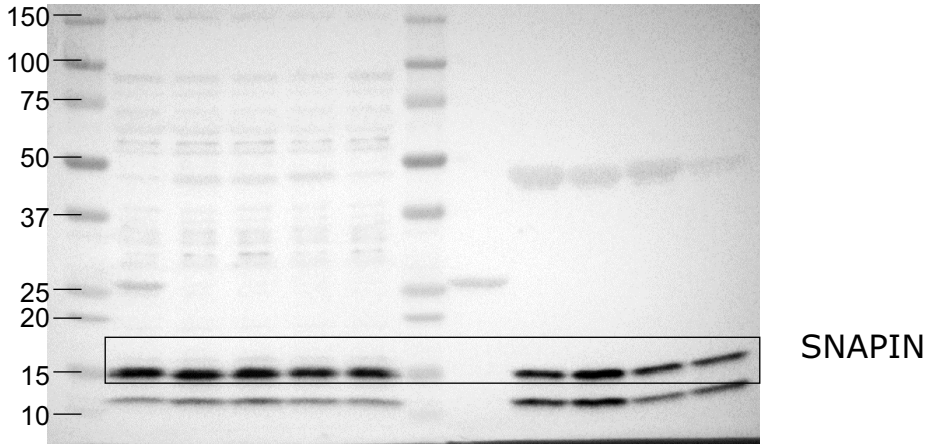
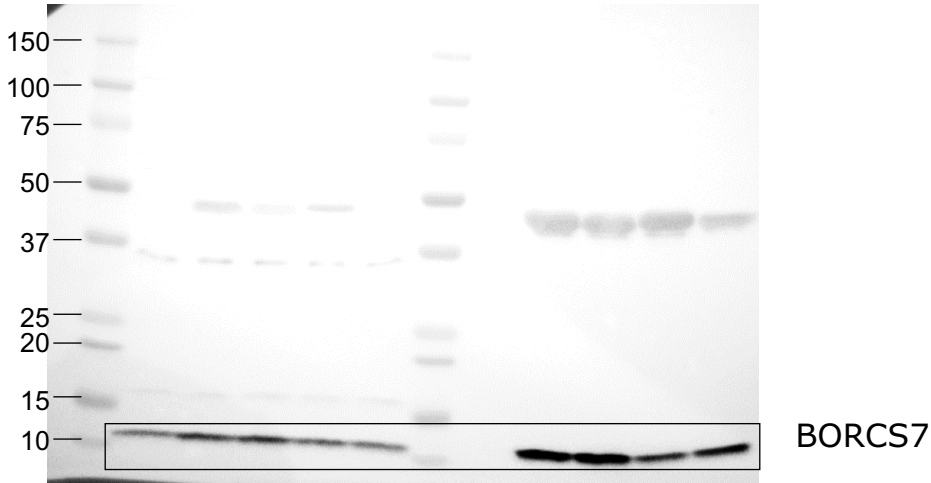
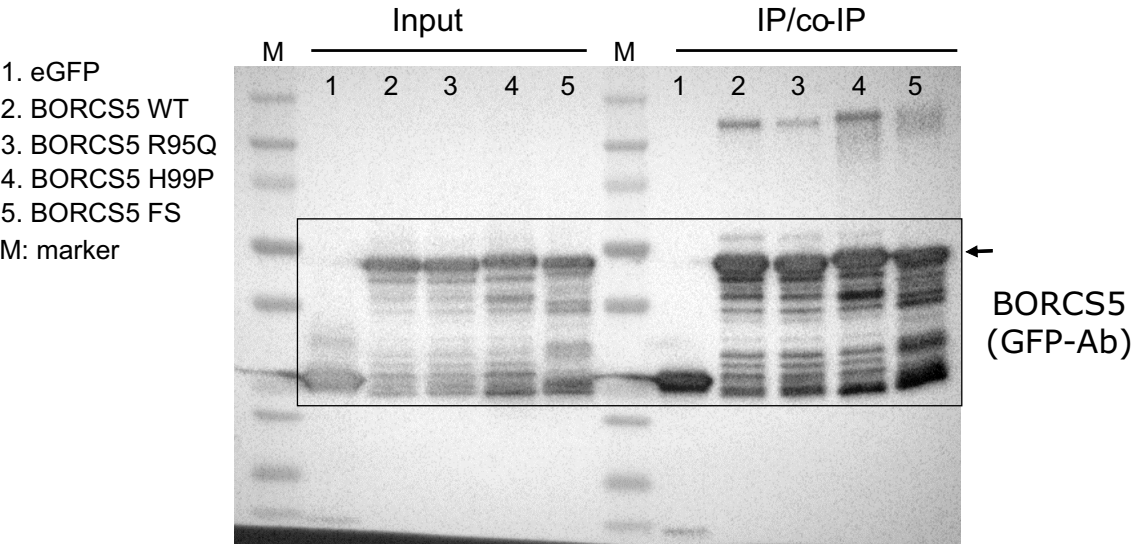


Figure 6A

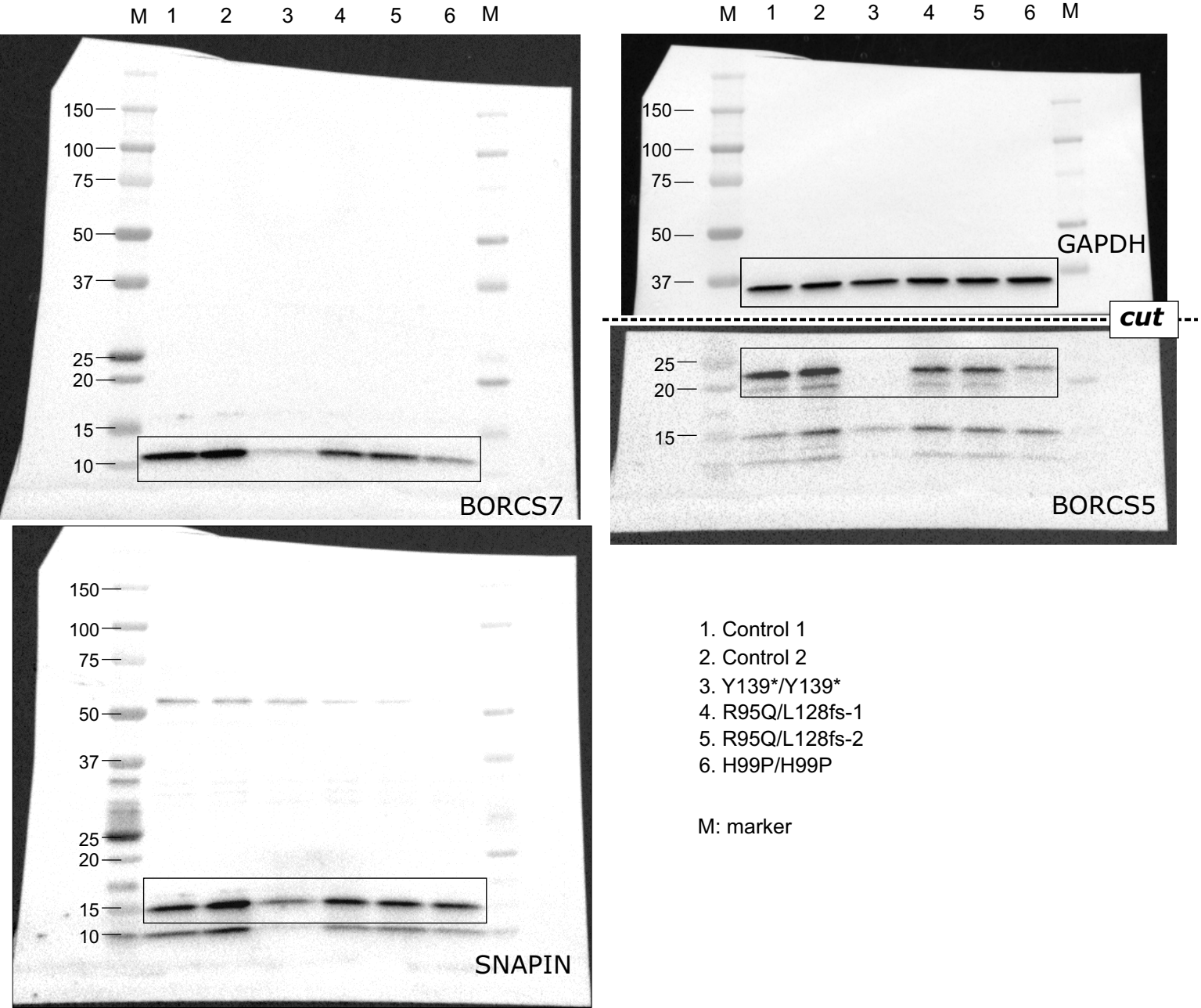
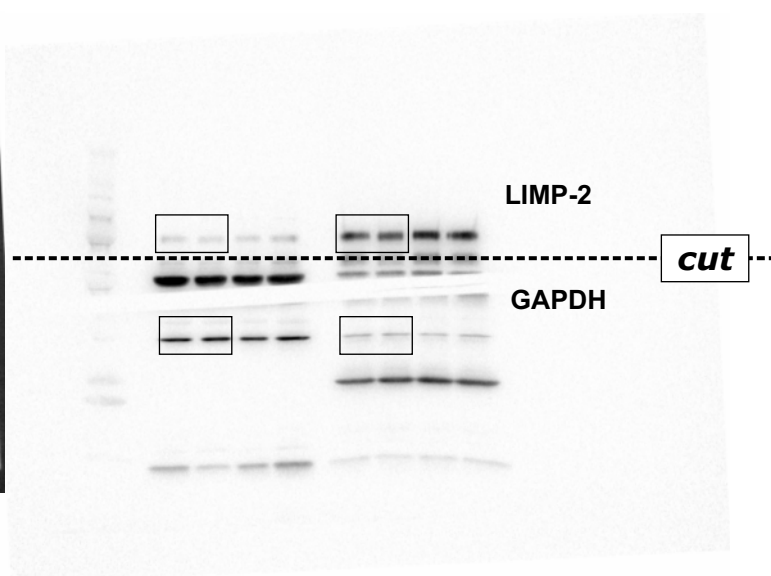
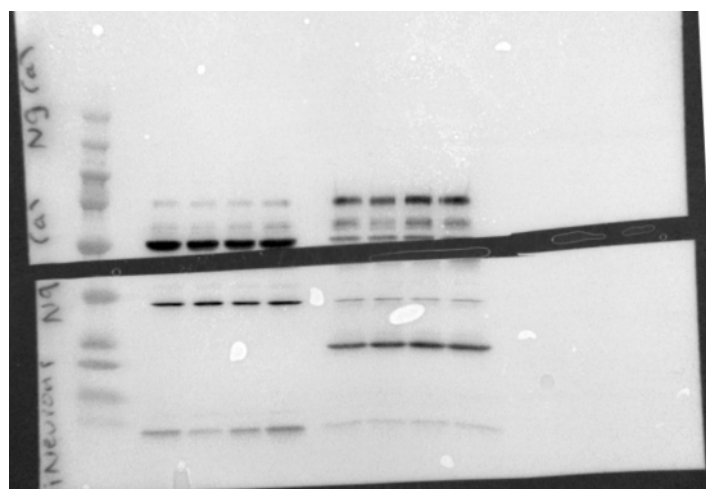
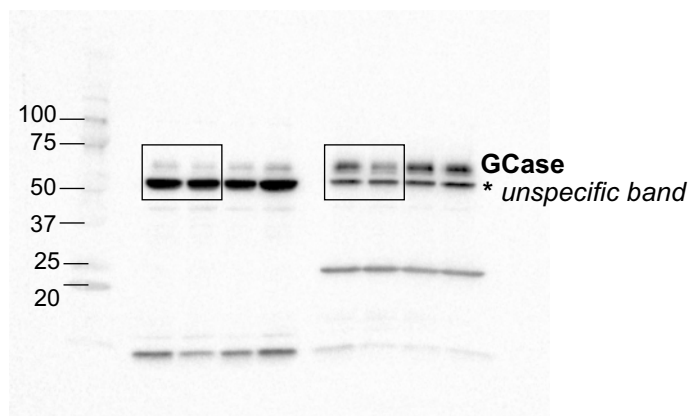
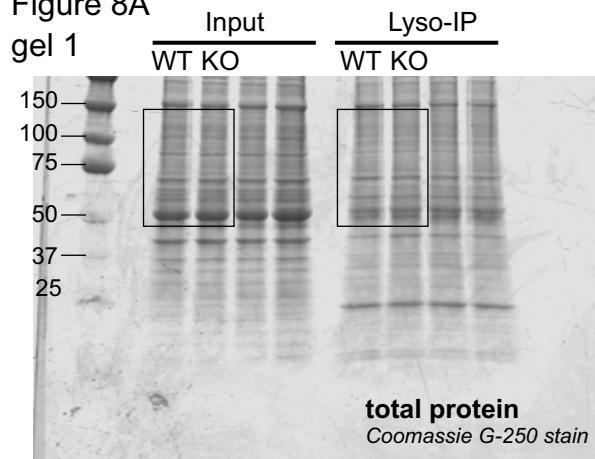
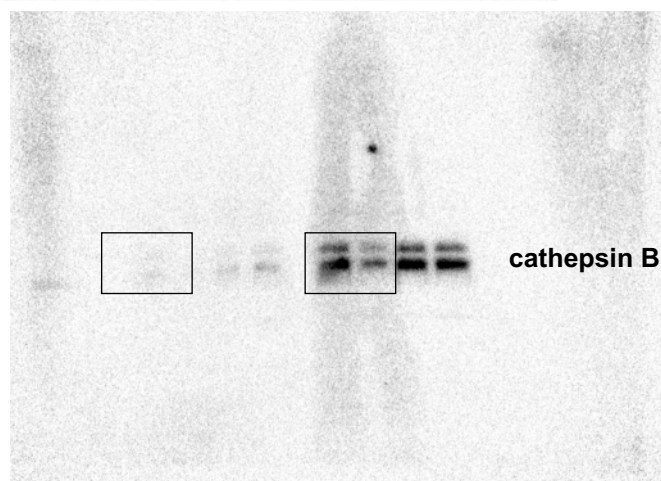
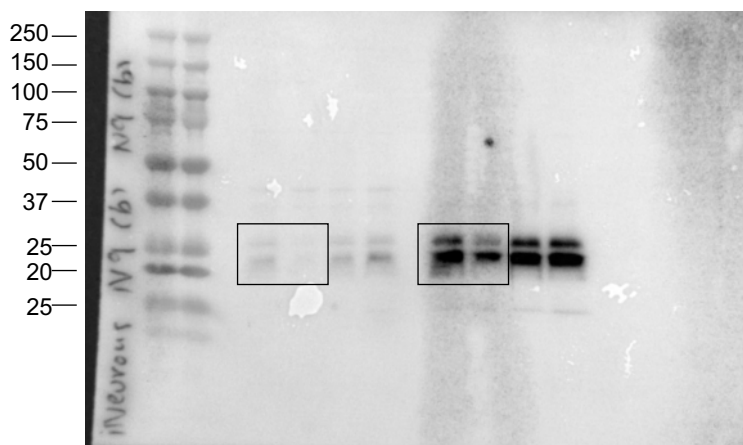
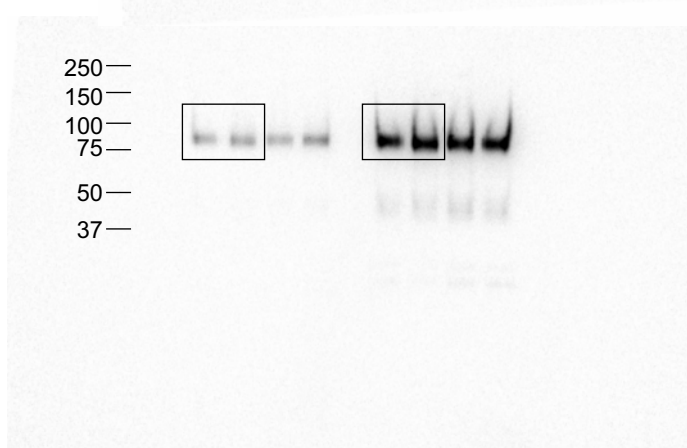
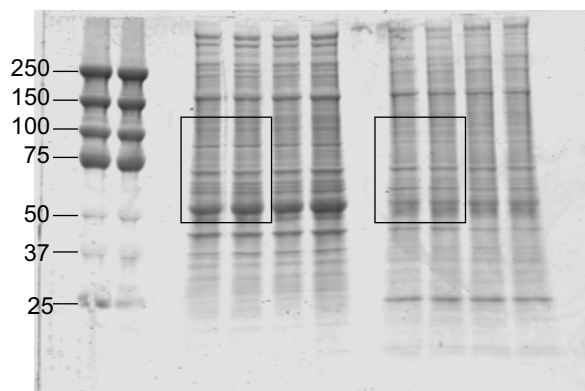


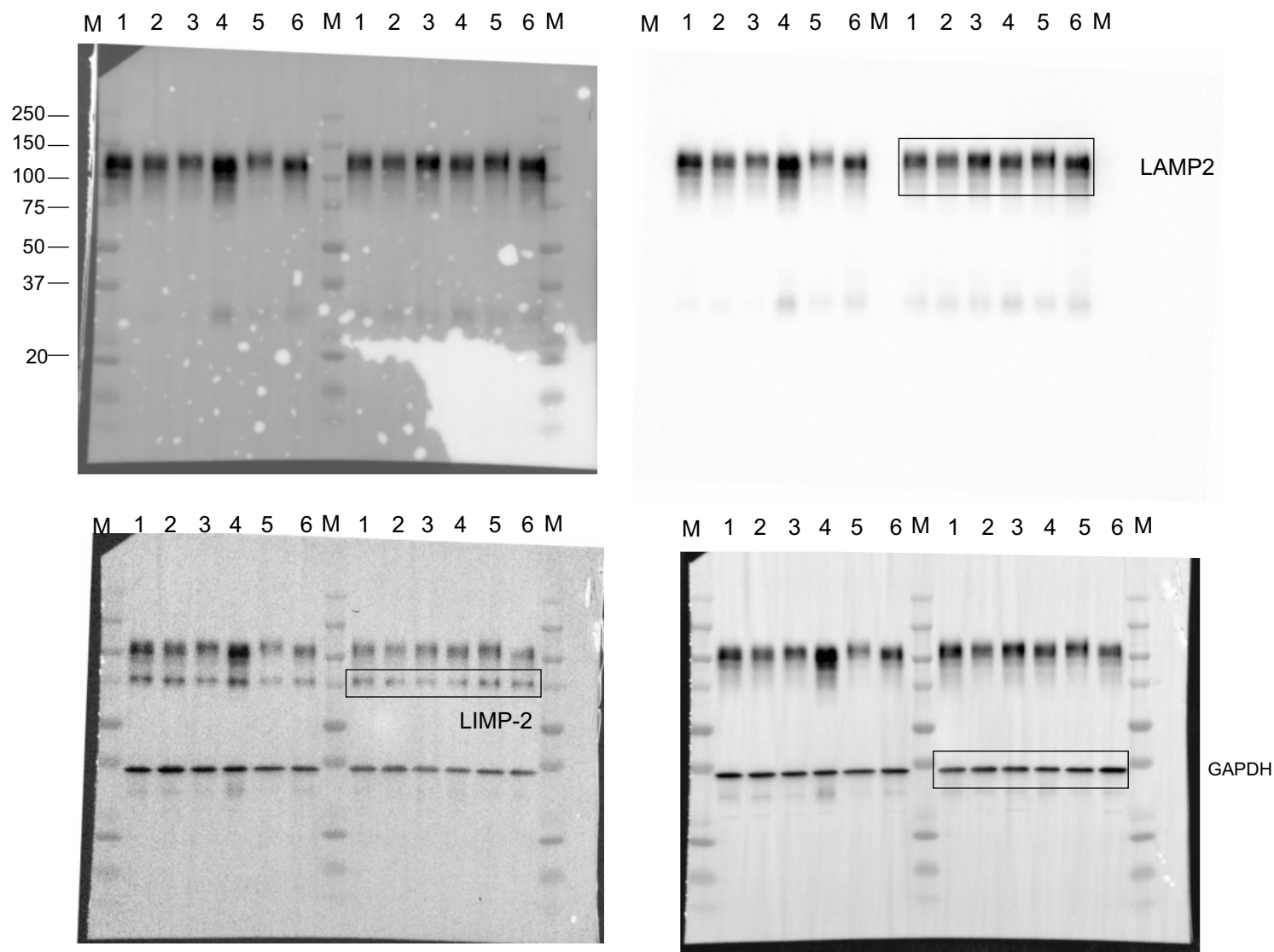
Figure 8A



gel 2



Supplemental Figure 4B



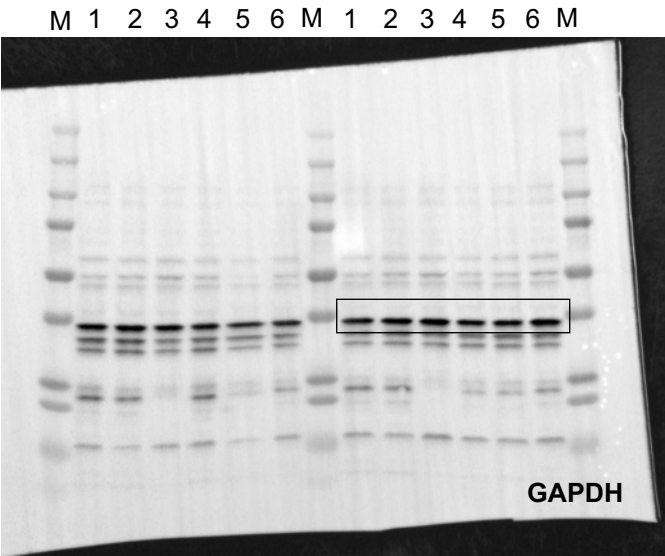
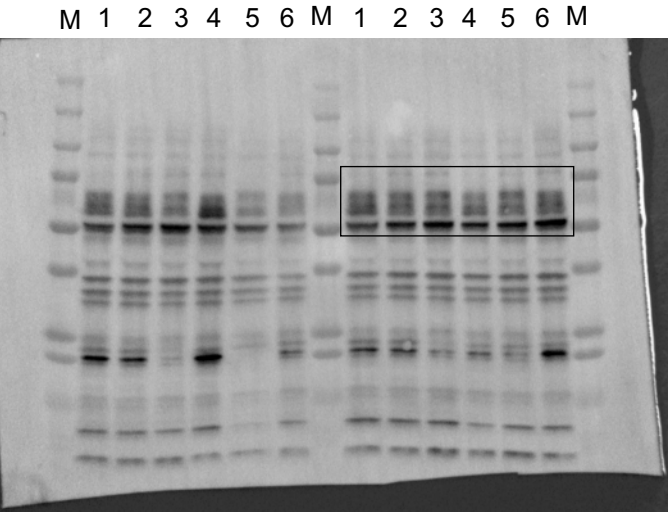
- 1. Control 1
- 2. Control 2
- 3. Y139*/Y139*
- 4. R95Q/L128fs-1
- 5. R95Q/L128fs-2
- 6. H99P/H99P

M: marker

Supplemental Figure 4C

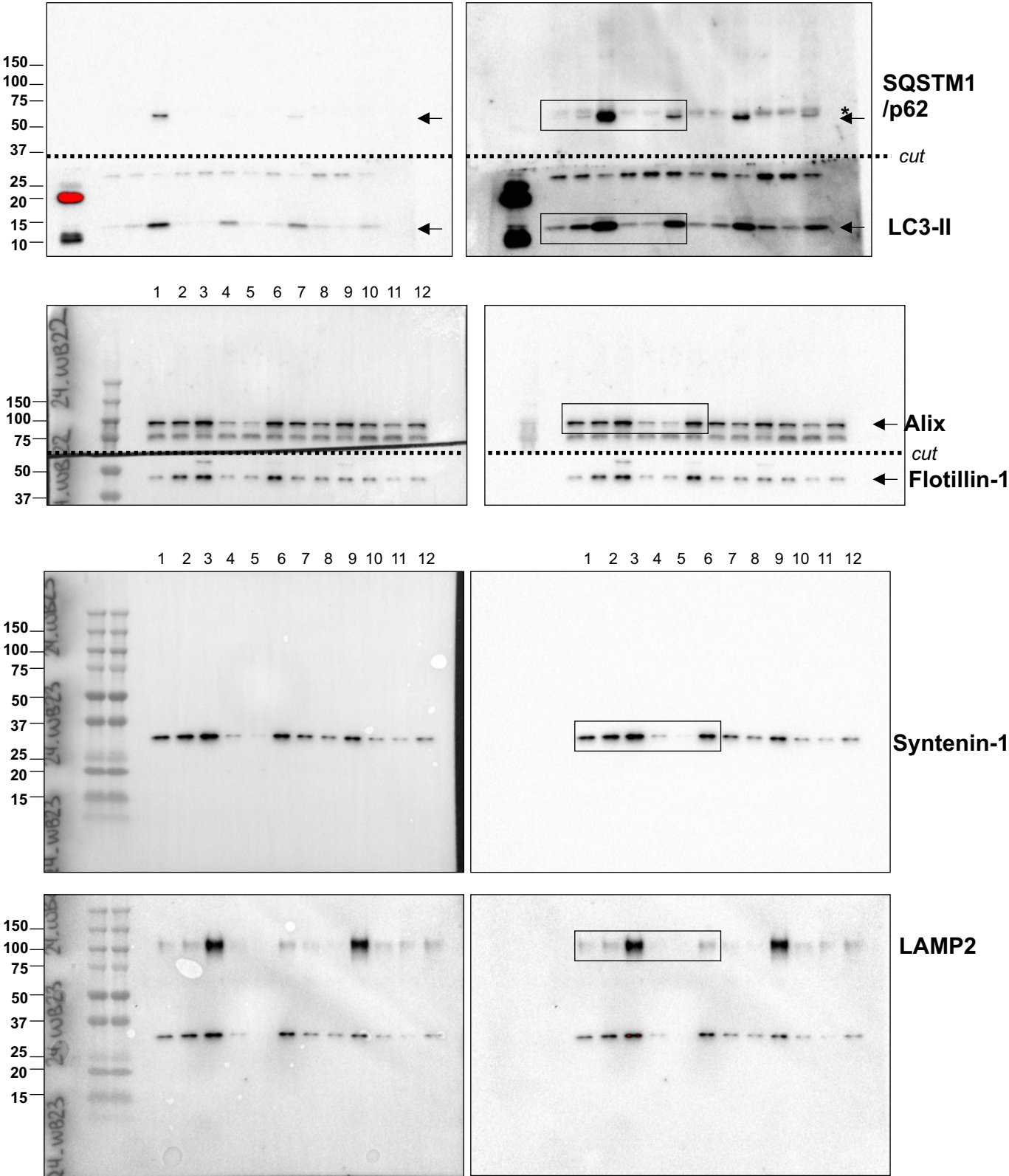
- 1. Control 1
- 2. Control 2
- 3. Y139*/Y139*
- 4. R95Q/L128fs-1
- 5. R95Q/L128fs-2
- 6. H99P/H99P

M: marker



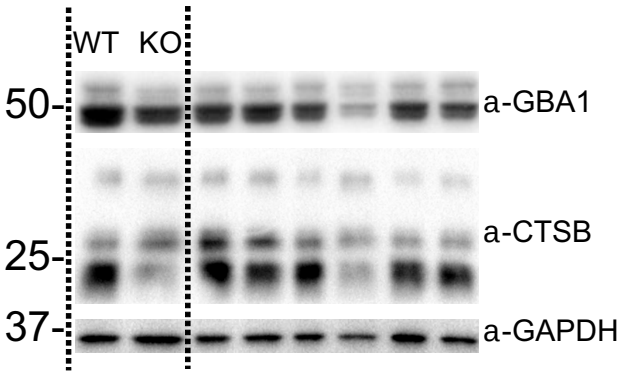
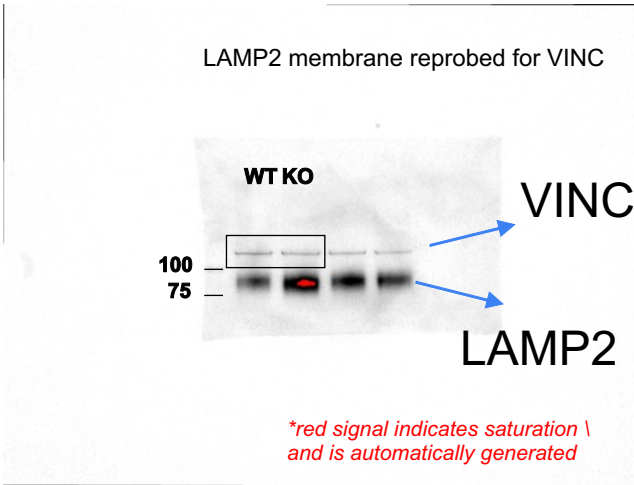
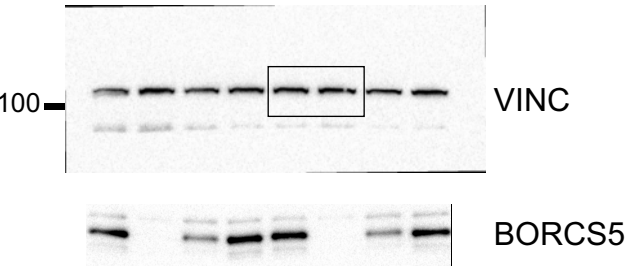
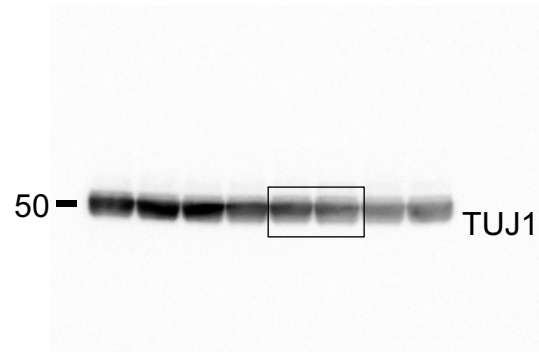
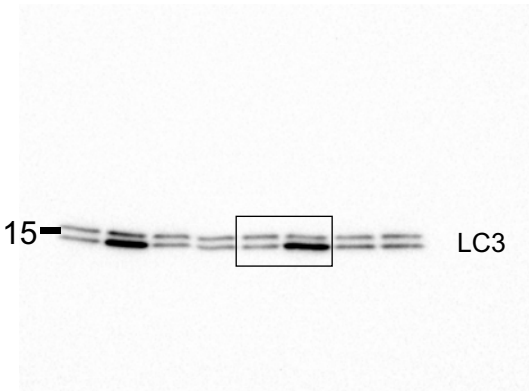
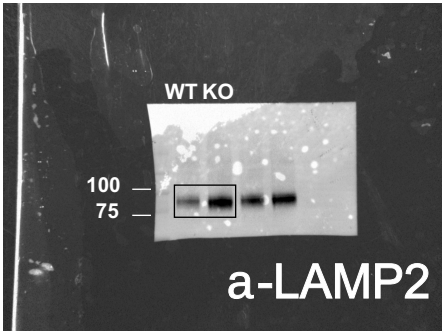
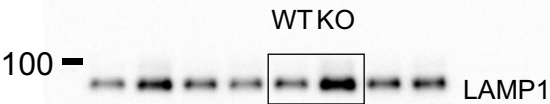
Supplemental Figure 5C

Lane 1: P100_N1_CTR1
Lane 2: P100_N1_CTR2
Lane 3: P100_N1_Patient FVI-1 (Y139*/Y139*)
Lane 4: P100_N1_Patient FI-1 (R95Q/L128fs)
Lane 5: P100_N1_Patient FI-2 (R95Q/L128fs)
Lane 6: P100_N1_Patient FII-1 (H99P/H99P)
Lane 7: P100_N2_CTR1
Lane 8: P100_N2_CTR2
Lane 9: P100_N2_Patient FVI-1 (Y139*/Y139*)
Lane 10: P100_N2_Patient FI-1 (R95Q/L128fs)
Lane 11: P100_N2_Patient FI-2 (R95Q/L128fs)
Lane 12: P100_N2_Patient FII-1 (H99P/H99P)



Supplemental Figure 6A

total lysates from WT or BORCS5 KO iNeurons



**Here we had to use cropped blots due to limited material/availability for probing at certain molecular weight*

Supplemental Figure 6D

- 1. N1 HeLa WT
- 2. N1 HeLa BORCS5-KO
- 3. N1 HeLa BORCS5-KO + BORCS5-HA
- 4. N1 HeLa BORCS5-KO + LAMP1-KBS-GFP
- 5. N2 HeLa WT
- 6. N2 HeLa BORCS5-KO
- 7. N2 HeLa BORCS5-KO + BORCS5-HA
- 8. N2 HeLa BORCS5-KO + LAMP1-KBS-GFP

