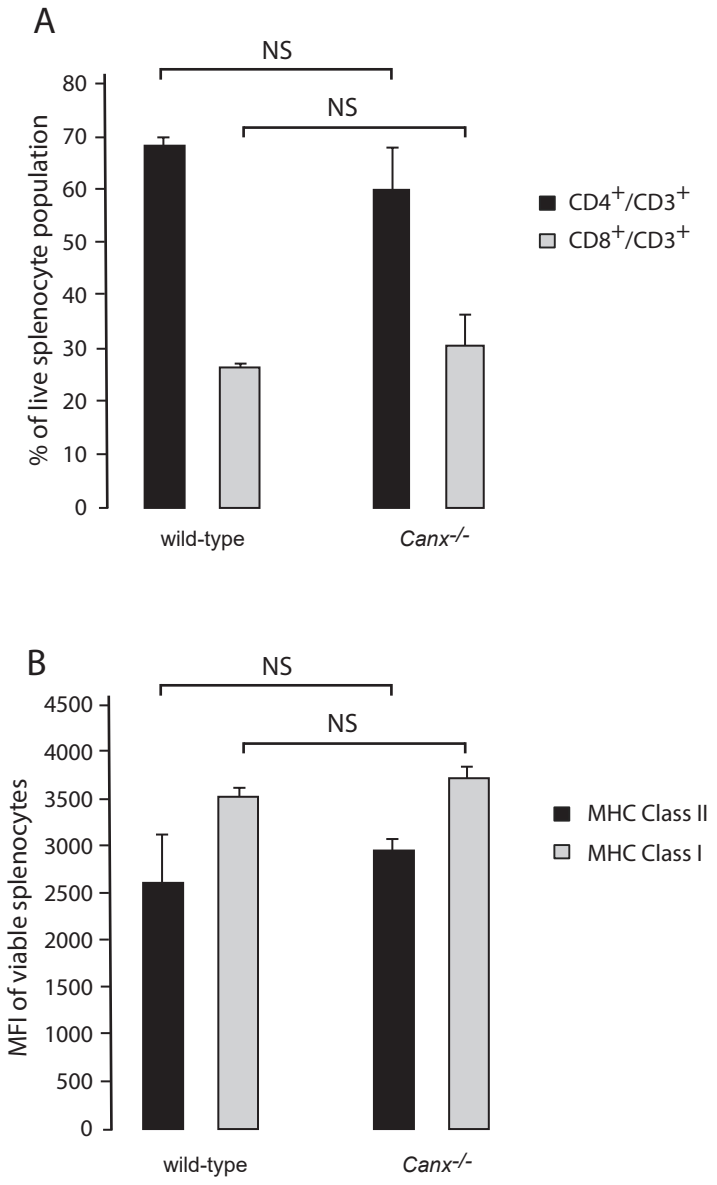
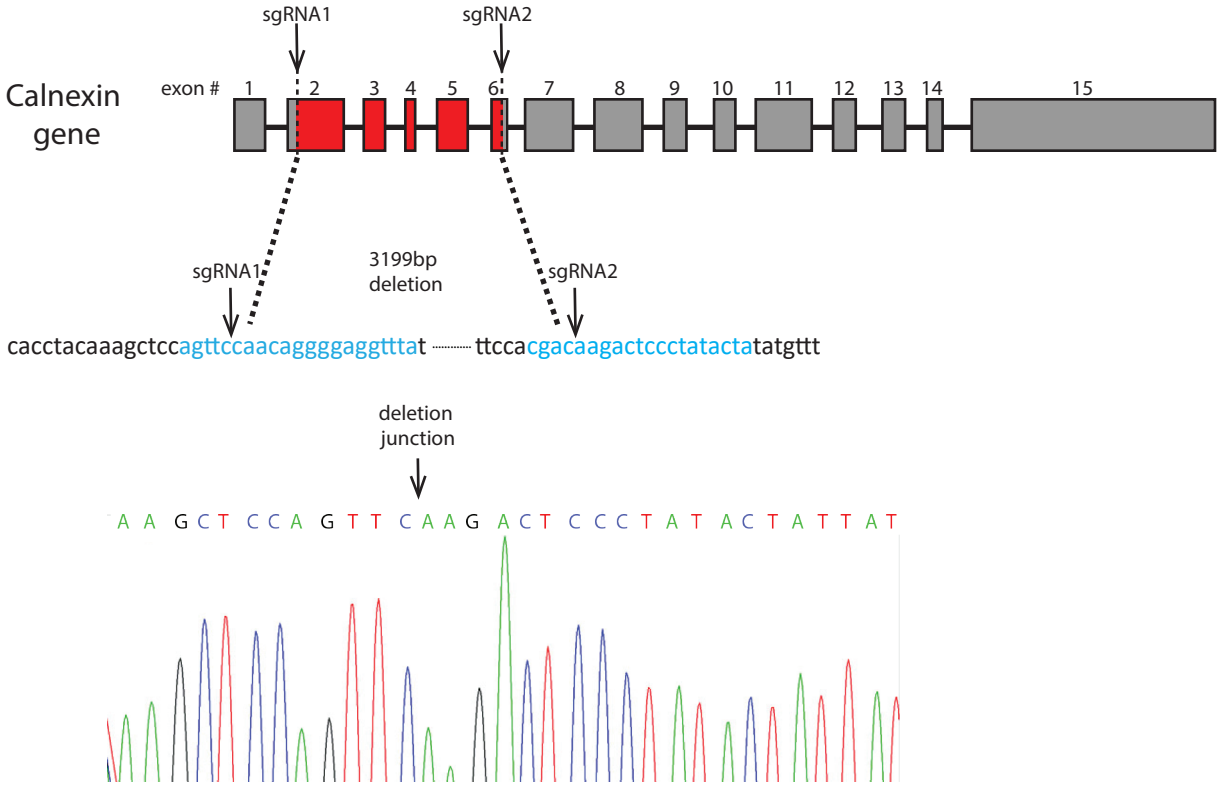



**Supplemental Figure S1**

Splenocytes from wild-type and calnexin-deficient EAE mice were stimulated *in vitro* with MOG35–55 peptide.

**A.** $CD4^+/CD3^+$ and $CD8^+/CD3^+$ T-cell populations were analyzed by flow cytometry
**B.** MHC I and MHC II population of splenocytes were analyzed by flow cytometry, MFI (mean fluorescence intensity). Data represented as mean ± SEM of three replicates of three independent experiments.
The means were compared using unpaired Student's t-test.




**Supplemental Figure S2**

Disruption of the calnexin gene in the bEND.3 cell using *in situ* gene editing.

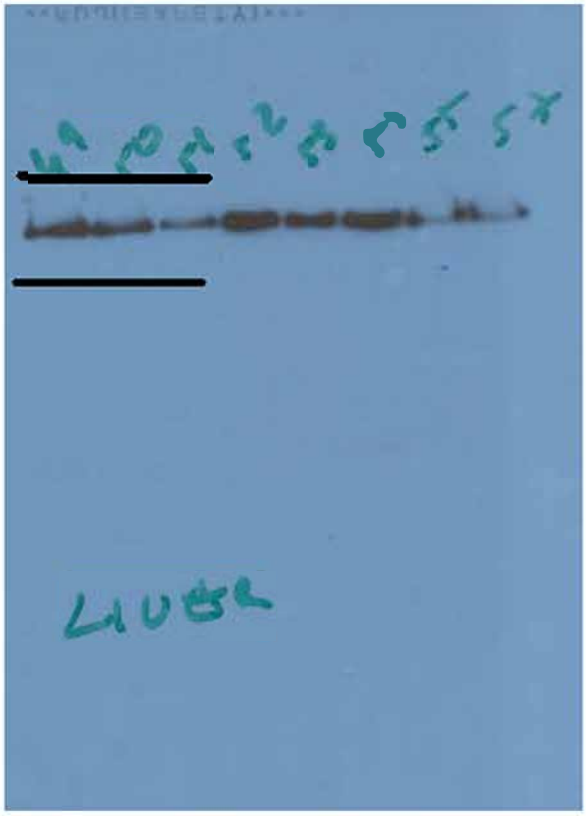
**Supplemental Table S1**

Summary of Clinical Data

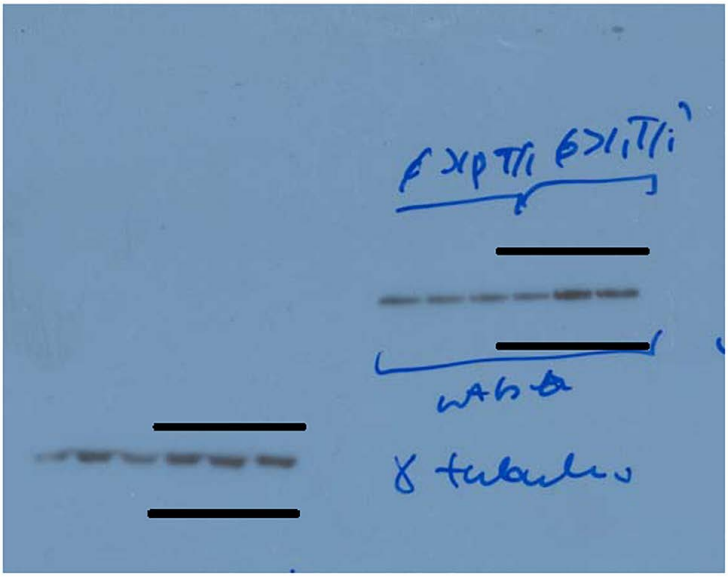
| | | | | Age at death | | Post Mortem Delay | | MS disease duration | |
|---|---|---|---|---|---|---|---|---|---|
| Sample Type | No. of patients | Males | Females | Mean | Range | Mean | Range | Mean | Range |
| Controls | 10 | 8 | 2 | 66.1 | 28 - 88 | 22.8 | 15 - 33 | - | - |
| MS | 18 | 7 | 11 | 53.6 | 35 - 74 | 22.5 | 8 - 56 | 18.1 | 2 - 34 |

MS, Multiple Sclerosis

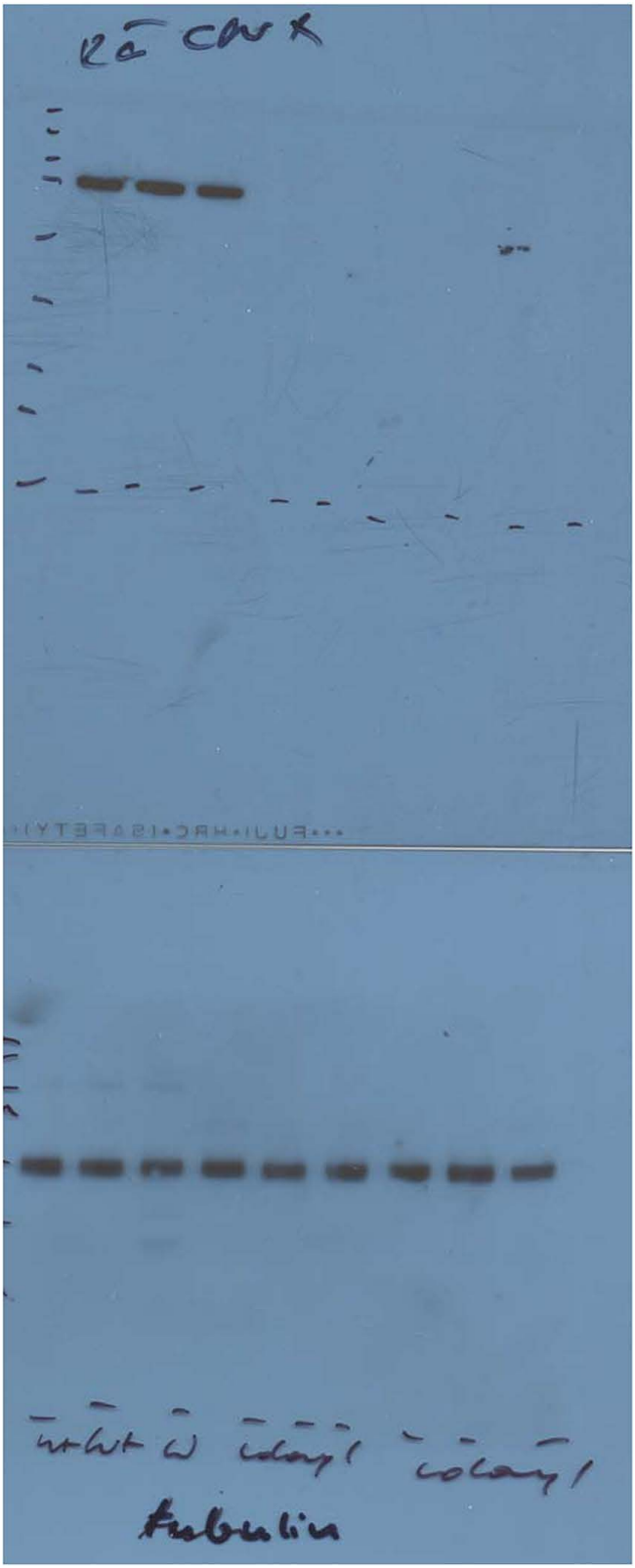
full unedited gel for Figure 4B




full unedited gel for the Figure 6A liver

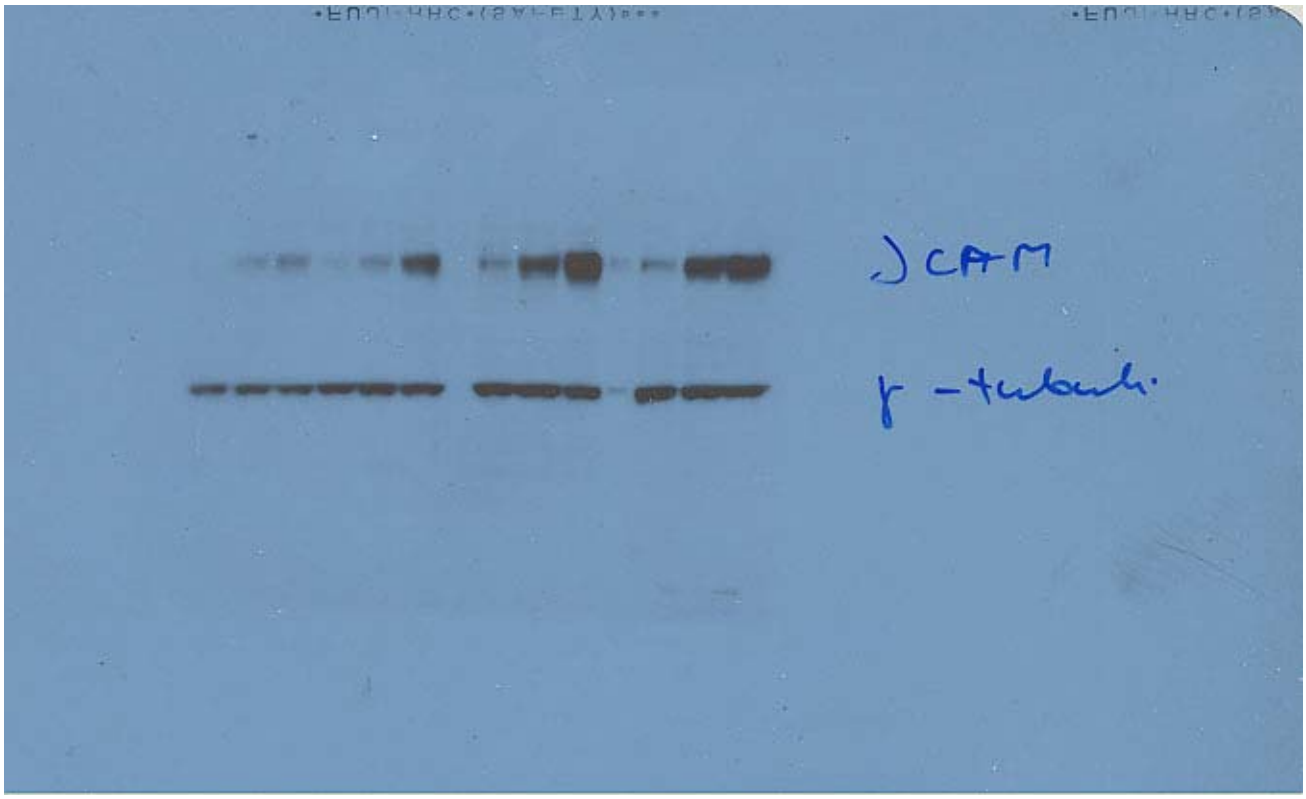


full unedited gel for the Figure 7A

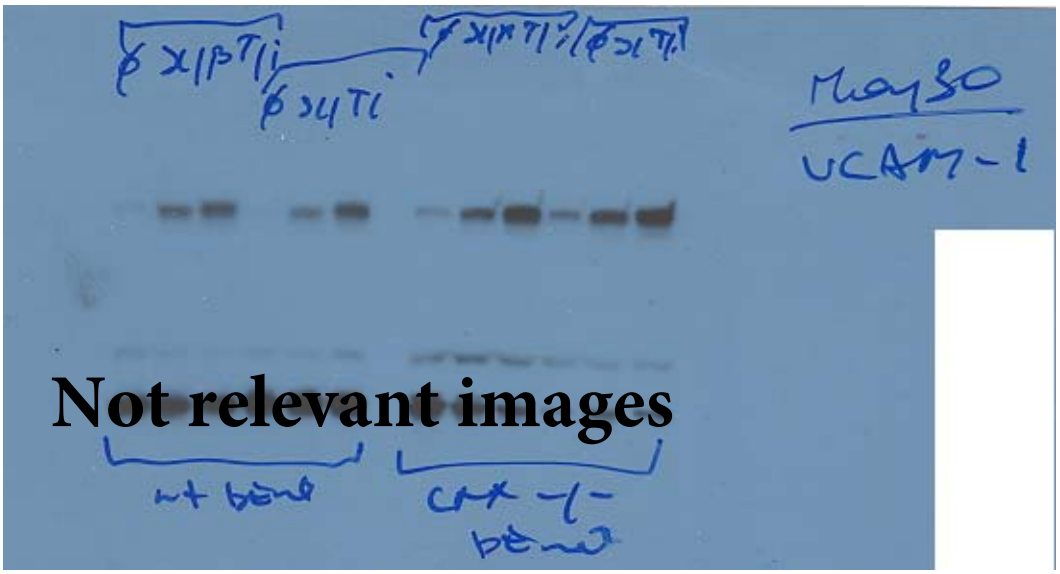



full unedited gel for the Figure 7B anti-calnexin (upper gel) + loading control (lower gel)

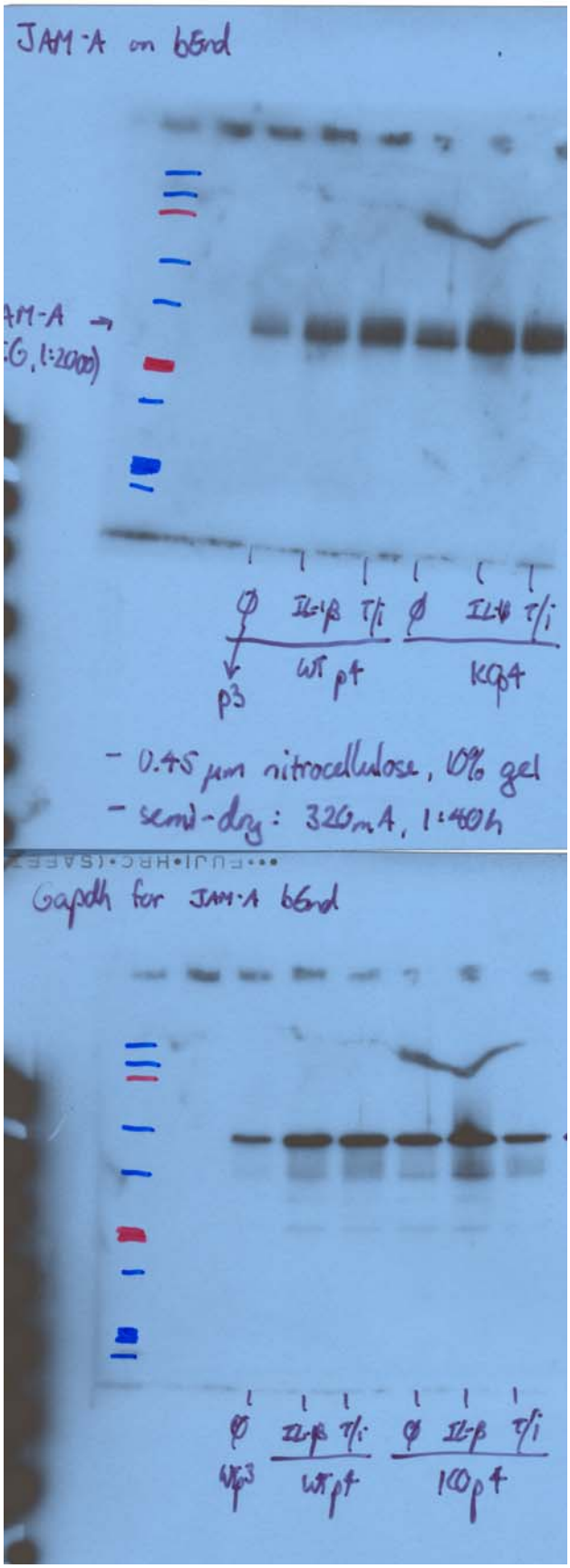
empty lane removed in the final Figure



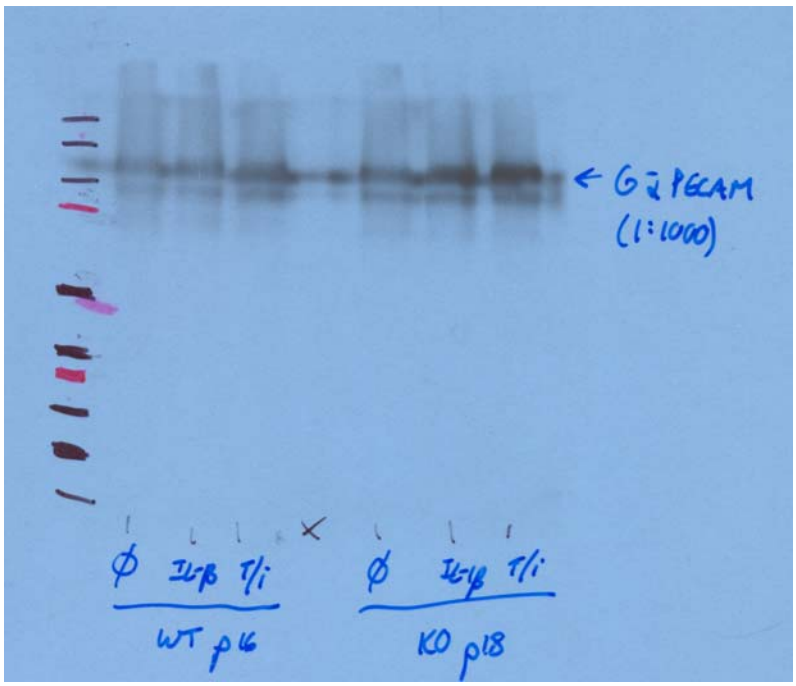

full unedited gel for the Figure 7C anti-VCAM + loading control




full unedited gel for the Figure 7C anti-VCAM




full unedited gel for the Figure 7D anti-JAM-A (upper gel) + loading control (lower gel)




full unedited gel for the Figure 7D anti-PECAM