

**Figure S1.** Confocal analysis after immunofluorescence using SMI-32 (green) and  $\beta$ III-TUB (red) antibodies showing aberrant neuronal morphology of RTD MNs, with respect to Ctrl MNs. Both markers show a patchy distribution in RTD cells, as opposed to the filamentous appearance in healthy neurons. Nuclei are stained with Hoechst (blue).