IIIb. Western Blot Expression Analysis.

The results of the Western Blot expression analysis are presented in Fig. 2. hSNCA-specific immunoreactivity as revealed in all three lines with the highest expression level in line 10678 - NTac:SD-Tg(SNCA*A53T)268Cjli. The Positive Control is recombinant full length human α-Synuclein E46K from Abcam (#ab51188).

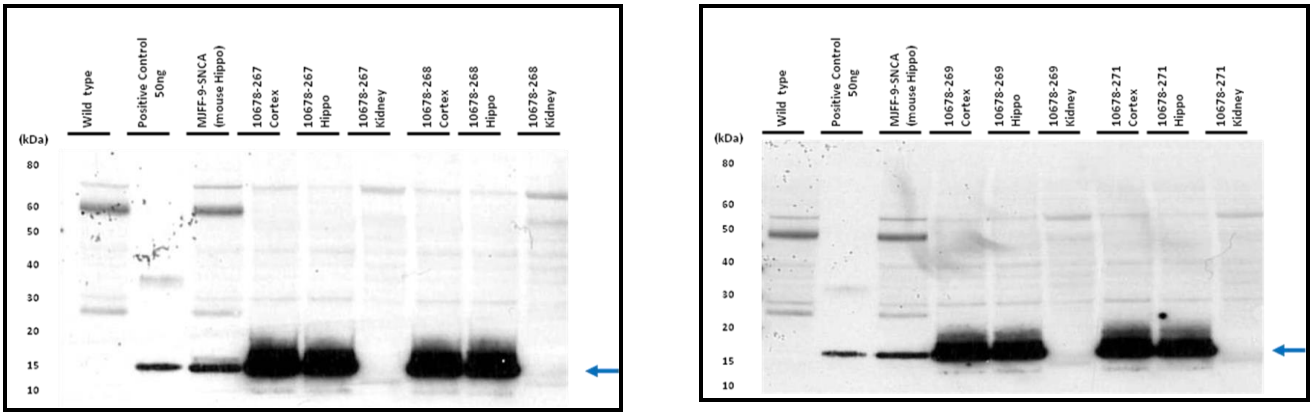

Fig. 2 Western Blot Expression Analysis.
Line 10678 - NTac:SD-Tg(SNCA*A53T)268Cjli
Each lane contained approximately 75 µg of the protein.
The position of hSCNCA-specific band is marked with blue arrow.
(Hippo=Hippocampus)

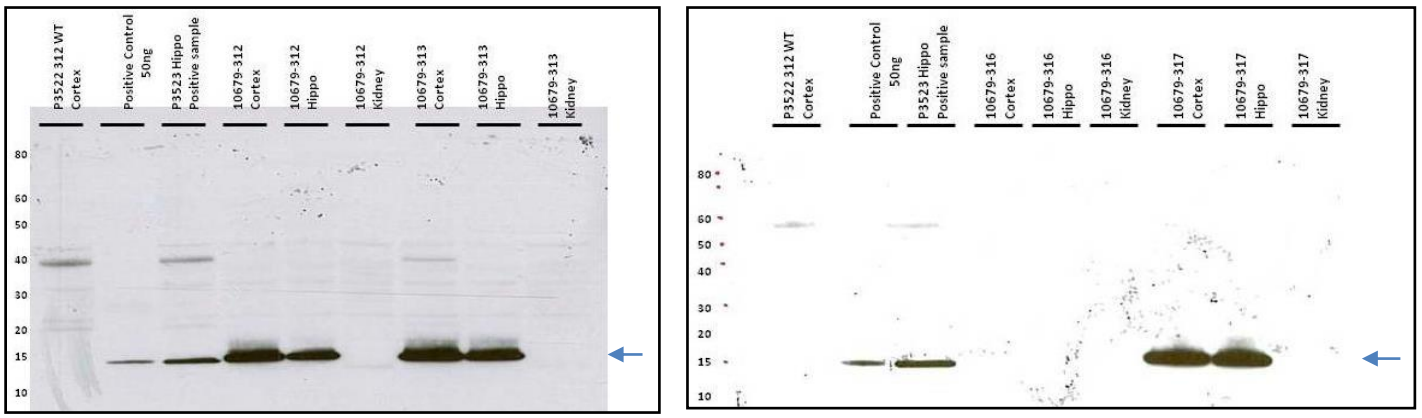

Fig. 3 Western Blot Expression Analysis.
Line 10679 - NTac:SD-Tg(SNCA*E46K)70Cjli
Each lane contained approximately 75 µg of the protein.
The position of hSCNCA-specific band is marked with blue arrow.
(Hippo=Hippocampus)

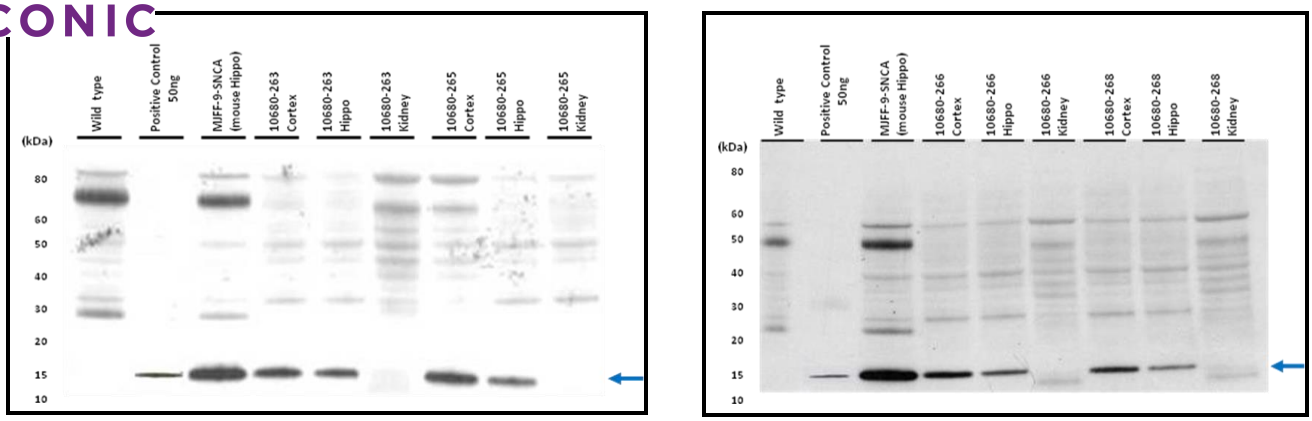

Fig. 4 Western Blot Expression Analysis.
Line 10680 - NTac:SD-Tg(SNCA)446Cjli
Each lane contained approximately 75 µg of the protein.
The position of hSCNCA-specific band is marked with blue arrow.
(Hippo=Hippocampus)

IV. Conclusions:

- The expression of the hSCNA transgenes measured by qRT-PCR was relatively high in the cortex and hippocampus of all Tg rats, very low in the kidneys and not detectable in the wild type control.
- Western Blot expression analysis revealed an hSCNA specific band in all three examined lines with the highest expression level in line 10678 - NTac:SD-Tg(SNCA*A53T)268Cjli.
- The average copy number values in the lines NTac:SD-Tg(SNCA)446Cjli (line 10680), NTac:SD-Tg(SNCA*A53T)268Cjli (line 10678), and NTac:SD-Tg(SNCA*E46K)70Cjli (line 10679) were respectively 3.65 ± 1.8, 42.08 ± 4.8, and 25.62 ± 3.1.