



S2 Fig: Effects of α -syn expression on 20/26S proteasomal activity in living PC12 cells

A cellular 20/26S proteasome assay implementing PC12 cells transiently expressing wild-type or A53T α -syn as well as a control protein (Gussia Luciferase; Luc) was performed to assess the effect of the presence of α -syn on proteasomal activity on a dopaminergic background. **(A)** Both expression of wild-type and A30P α -syn results in decreased proteasomal activity as indicated by decreased relative fluorescence intensity (RFU) per μ g protein in this setting. Group differences were analyzed applying unpaired t-tests, wild-type α -syn vs control, $p=0.006$, α -syn A30P vs control, $p=0.02$, α -syn A53T vs control, $p=0.07$, depicted are the mean \pm SD, $n=4$. **(B)** Immunoblotting of the respective cell lysates using Syn1 and actin antibody.