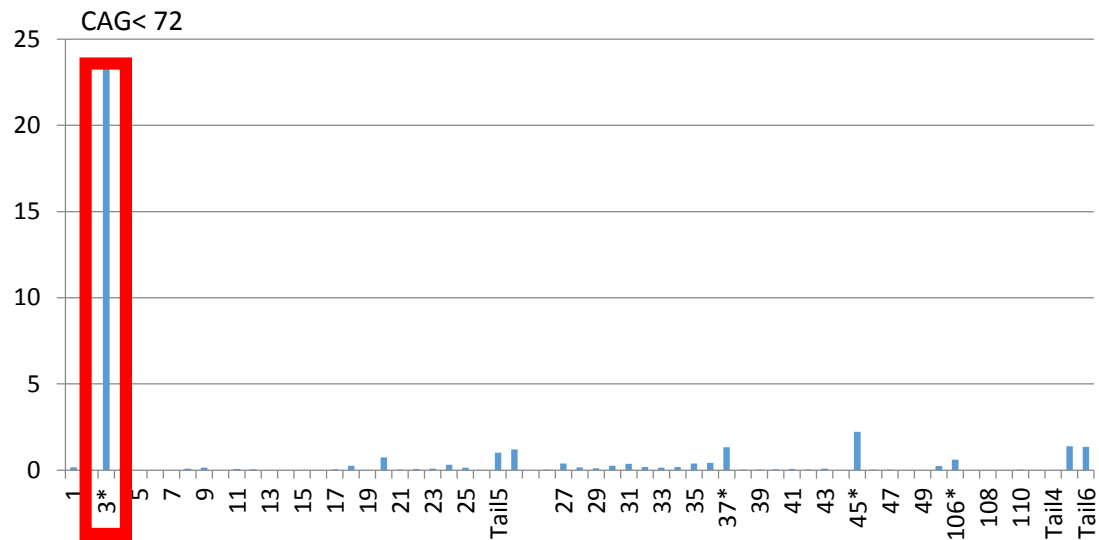


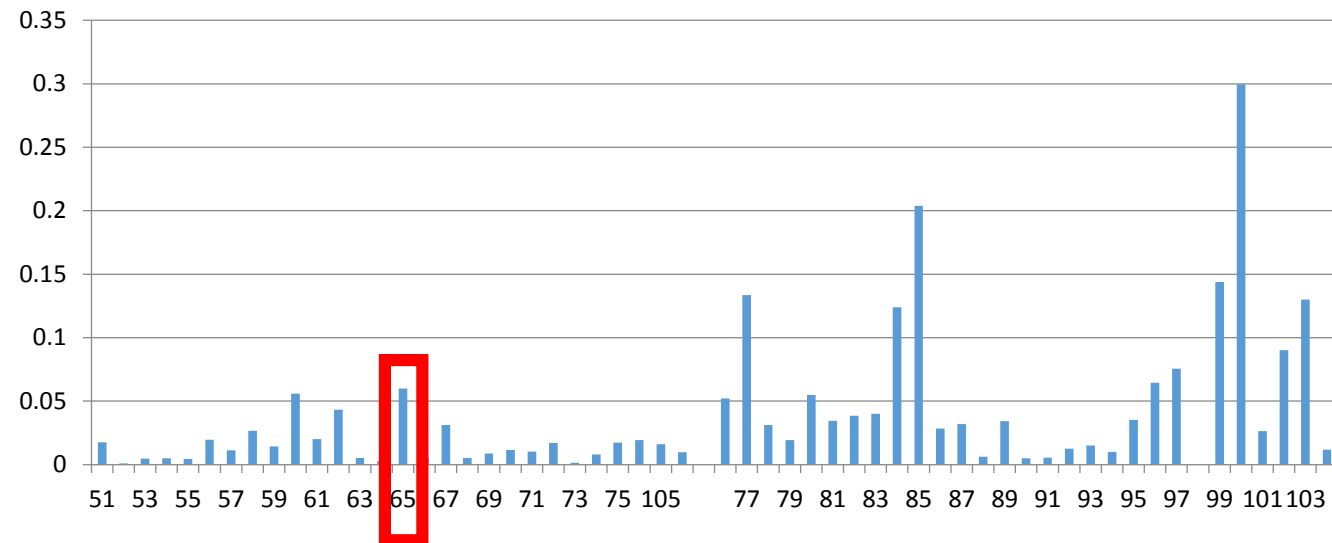
Q129 FLAG Mice Update Lab
meeting 5/7/2015

Tag#1-50,106-111

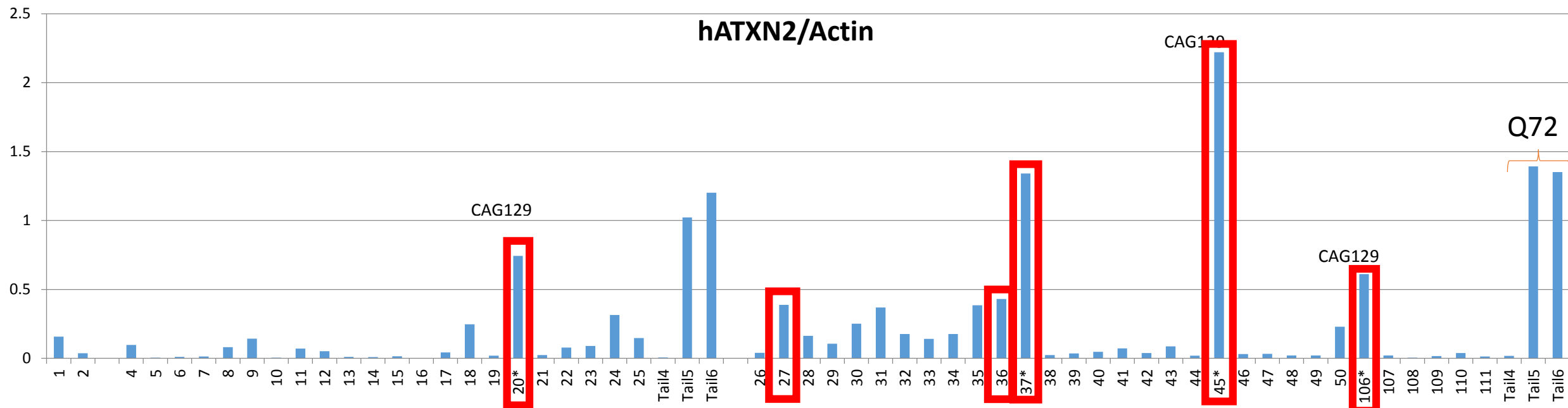
hATXN2/Actin



hATNX2/Actin



hATXN2/Actin



FLAG line 20 EXCLUDED Line

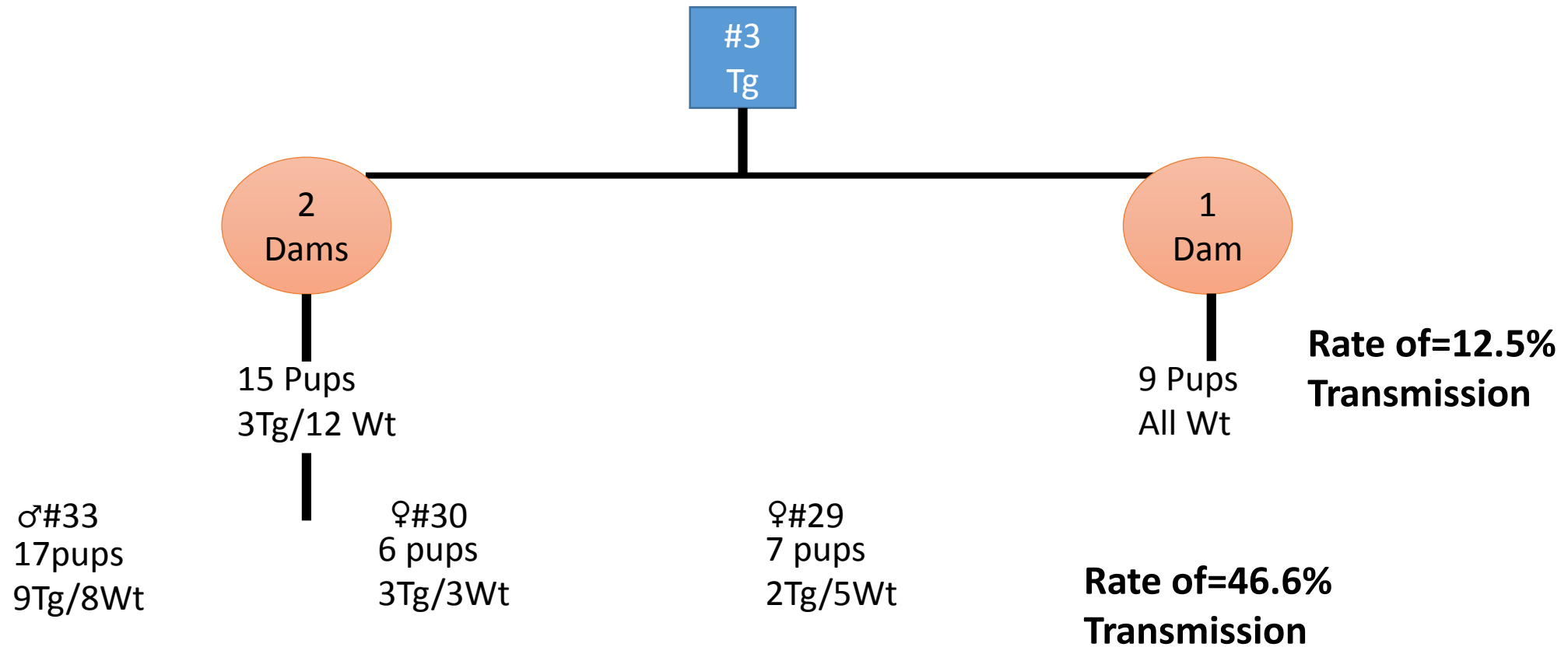
- ♀ Founder #20; Had No Tg offspring.
- All pups were Euthanized.
- Founder was euthanized and tissue was given to Sharan

FLAG line 45 EXCLUDED line

- ♂ Founder #45; All Tg offspring were CAG chimeric
- All offspring were euthanized and tissue was given to Sharan.

FLAG line 3

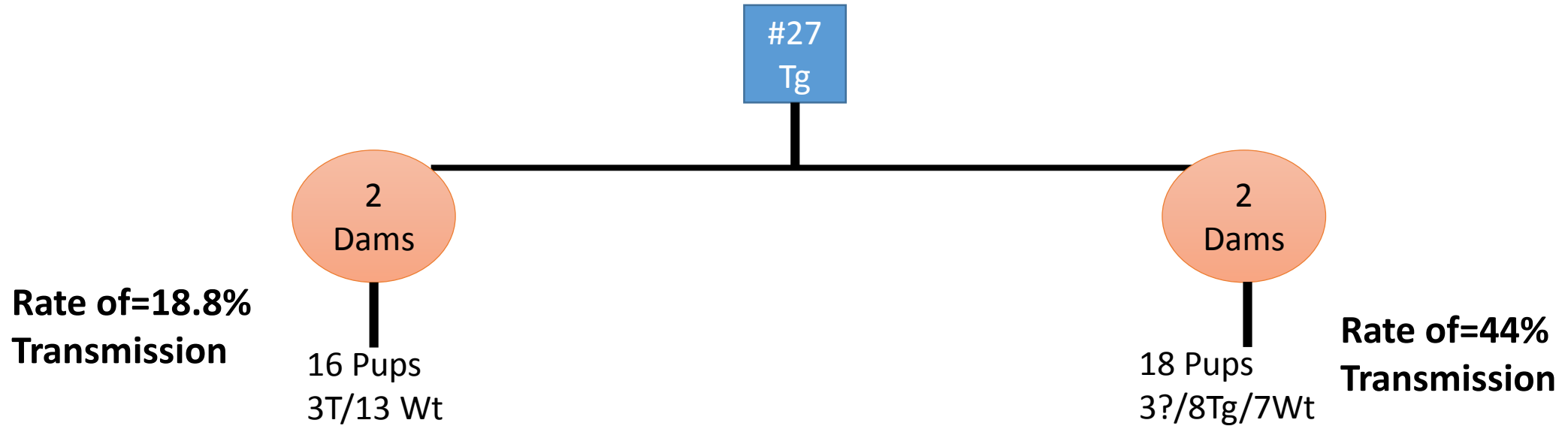
- ♂ Founder #3; Short CAG per Warunee (subsequent offspring have Q129 CAG repeat)



Keep?

FLAG line 27

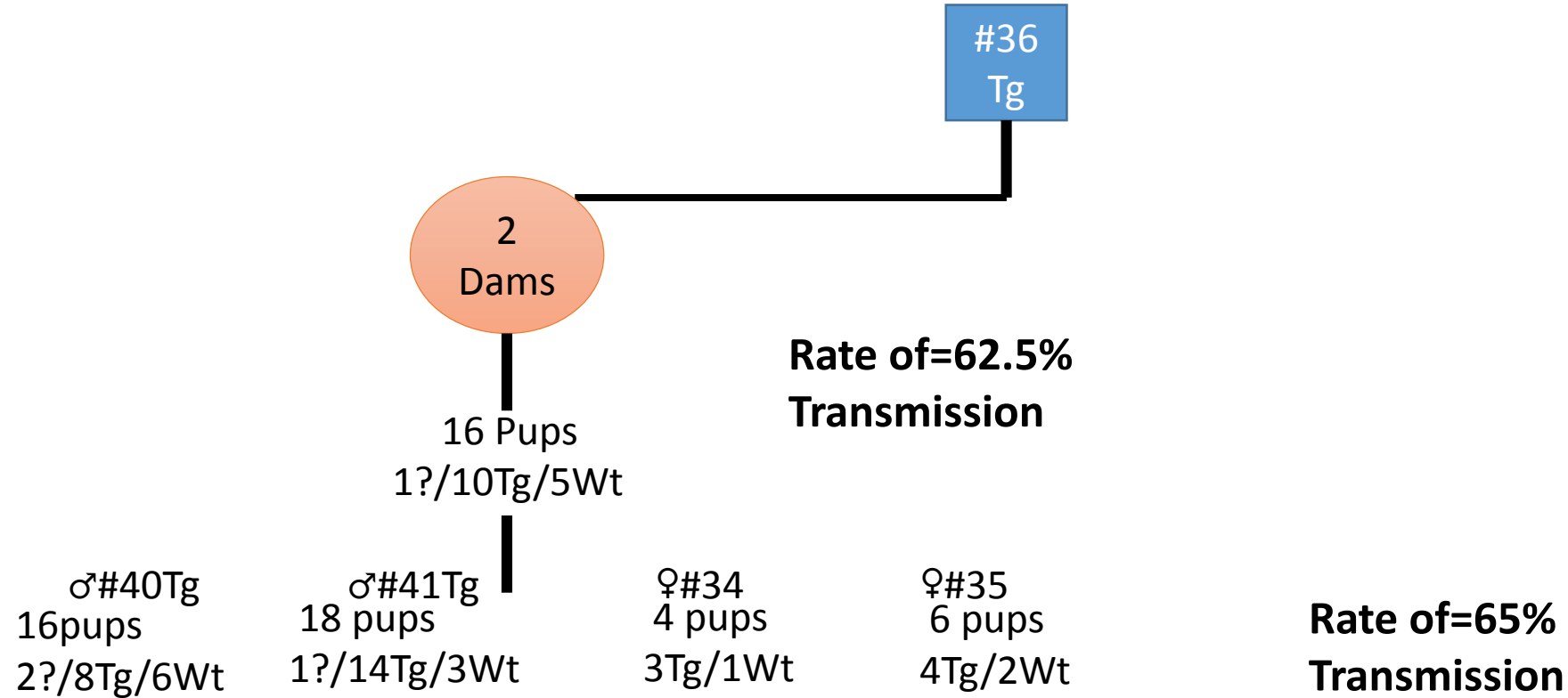
- ♂ Founder #27; Second batch founder



May want to keep line and see RT in next generation.

FLAG line 36

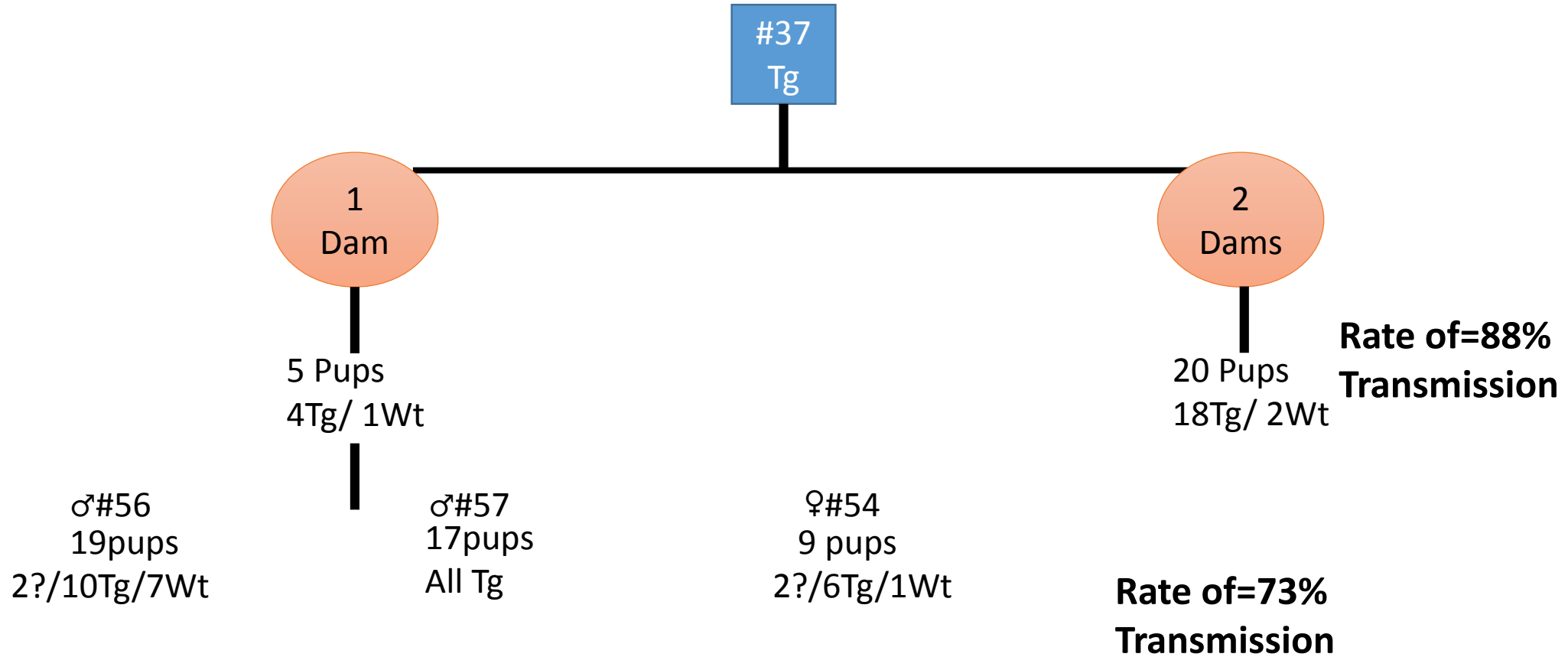
- ♂ Founder #36; Founder died before 2nd litter
- Select offspring were euthanized, tissue was collected and given to Sharan.



Keep this line?

FLAG Line 37

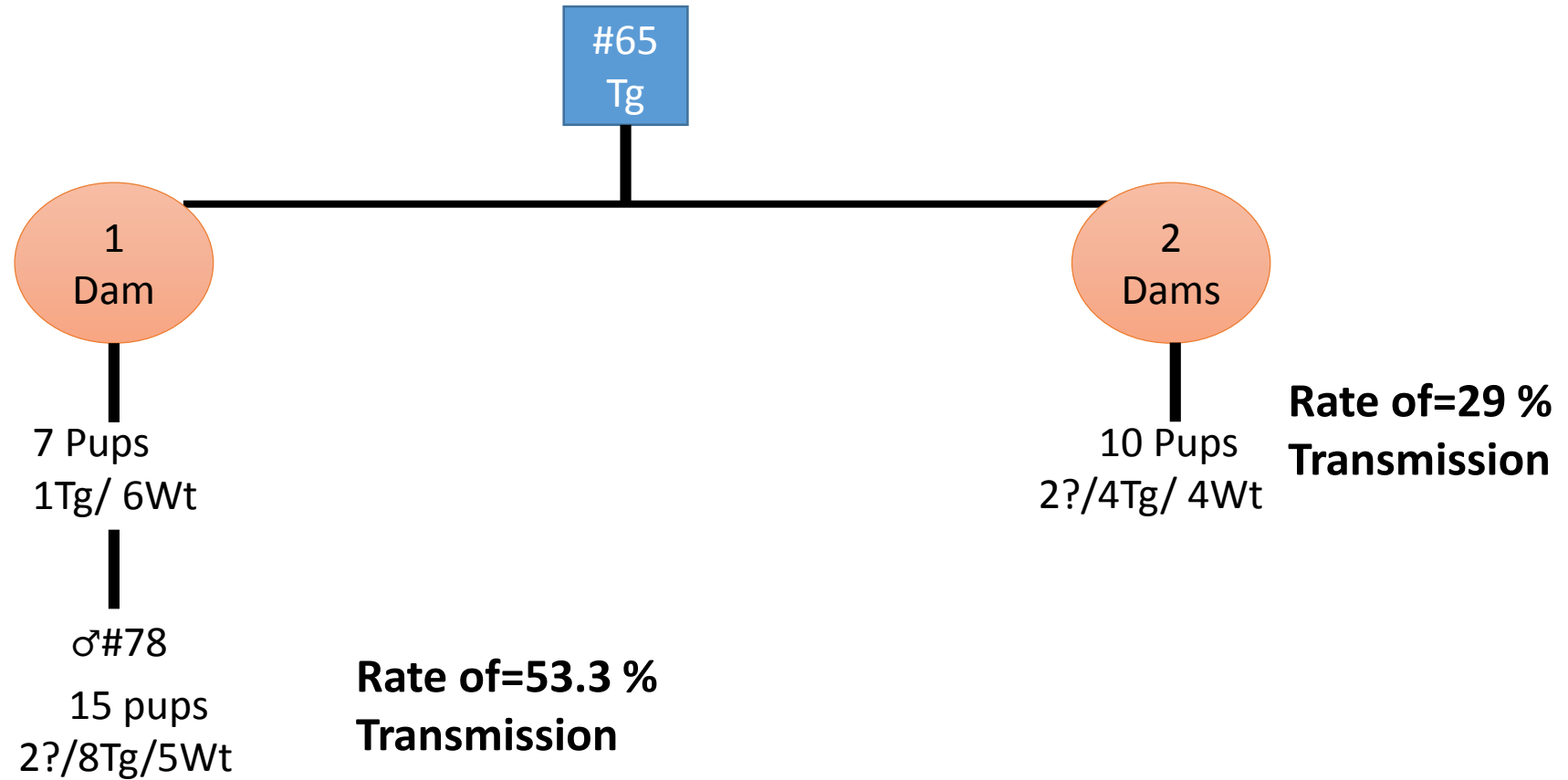
- ♂ Founder #37; No CAG per Warunee (all offspring have normal CAG according to PCR)



Will not have enough Wt controls to use.

FLAG Line 65

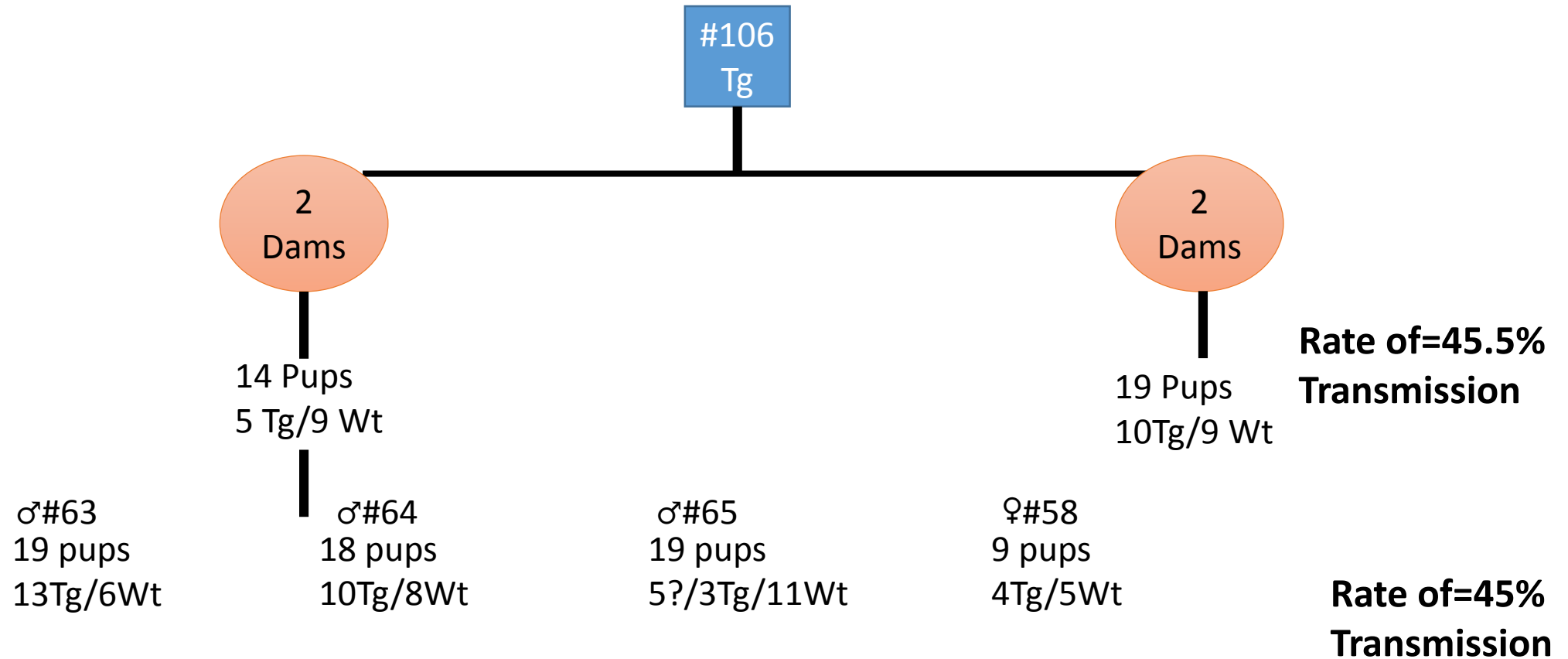
- ♂ Founder #65; good transgenic



Keep this line?

FLAG line 106

- ♂ Founder #106; Good Transgenic
- Select offspring were euthanized, tissue was collected and given to Sharan.



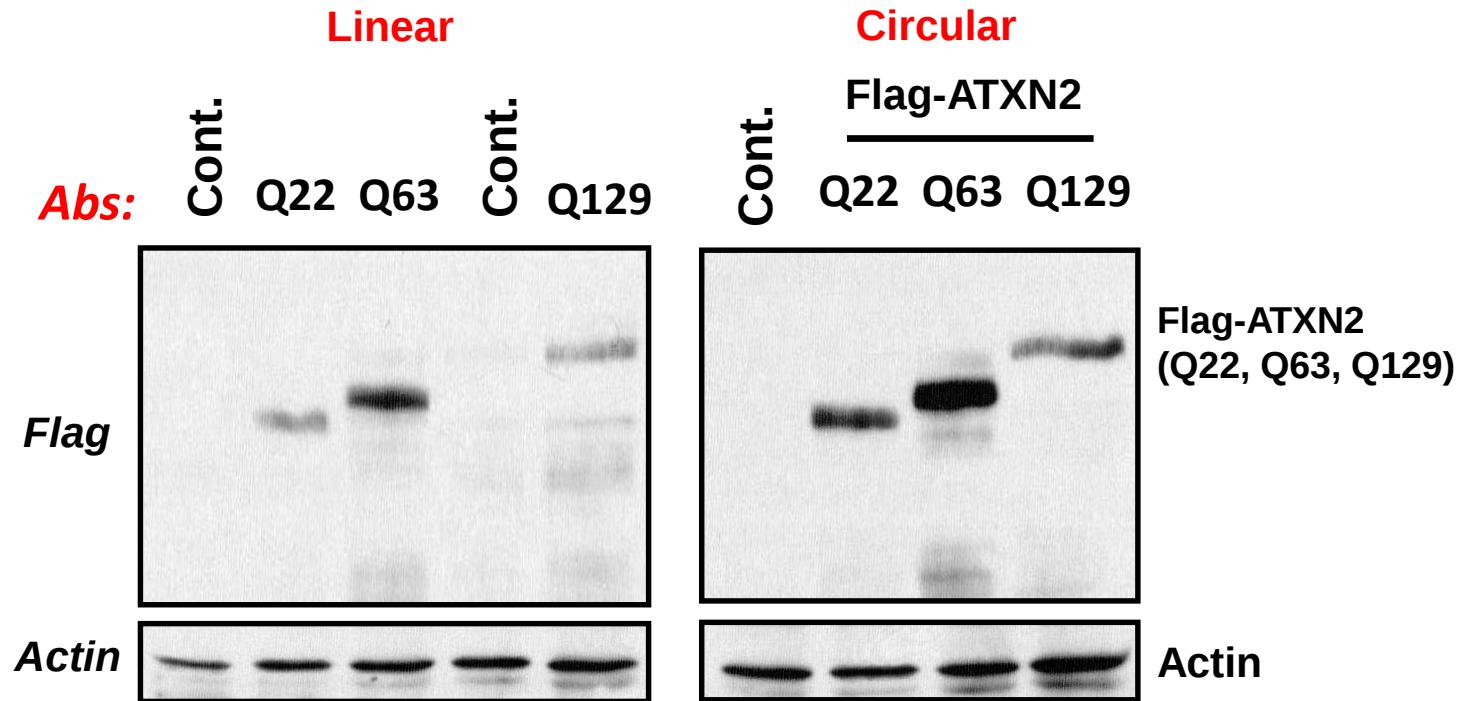
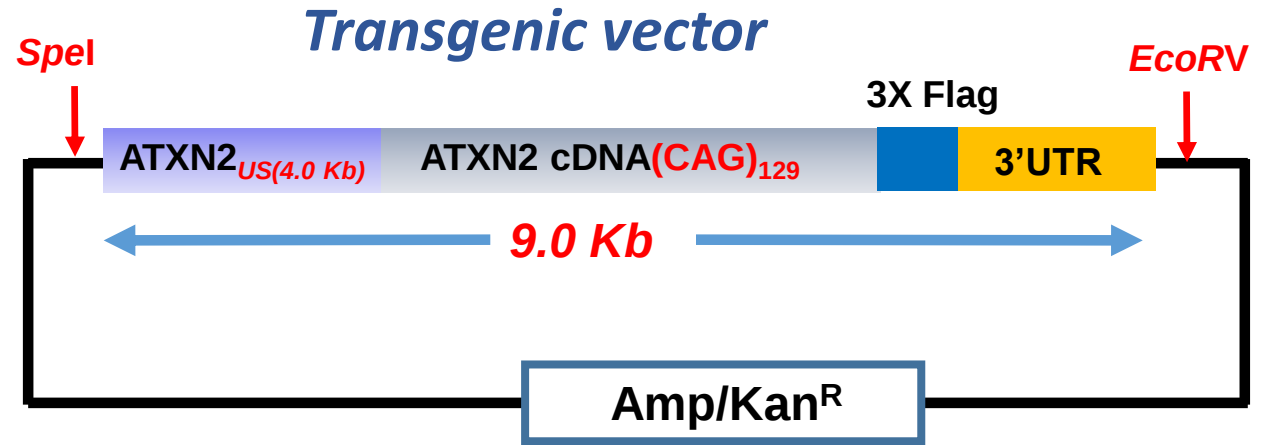
Keep this line?

Overview

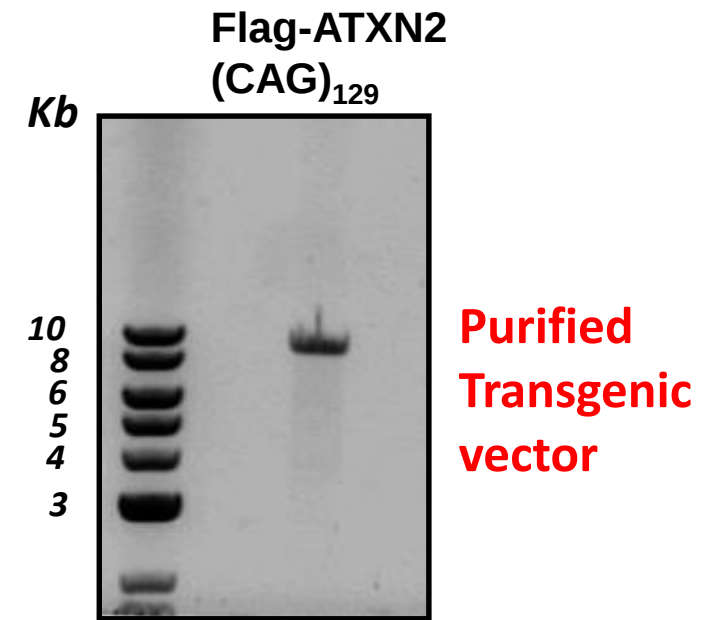
Red = outcome
of lab meeting

- Line 45 and Line 20 are excluded from use.
- Line 3; 30 pups 14Tg/16Wt TR=46.6%
(Keep line 3 has high expression per Warunee qPCR)
- Line 27; Has not been backcrossed yet, TR=33.4%
(Backcross offspring and Test any available Tg animals)
- Line 36; 44 pups 3?/29Tg/12 WT TR=65%
(Keep and Test any available Tg animals)
- Line 37; 45 pups 4?/33Tg/8Wt, TR=73% Too high for WT controls.
(Rebreed ♂#56 assuming that segregation has occurred and she only has 1 copy of the transgene.)
- Line 65; 15 pups 2?/8Tg/5Wt, TR=53.3%
(Keep and Test any available Tg animals)
- Line 106; 66 pups 30Tg/36Wt, TR=45%
(Keep and Test any available Tg animals)

New SCA2 Transgenic Lines

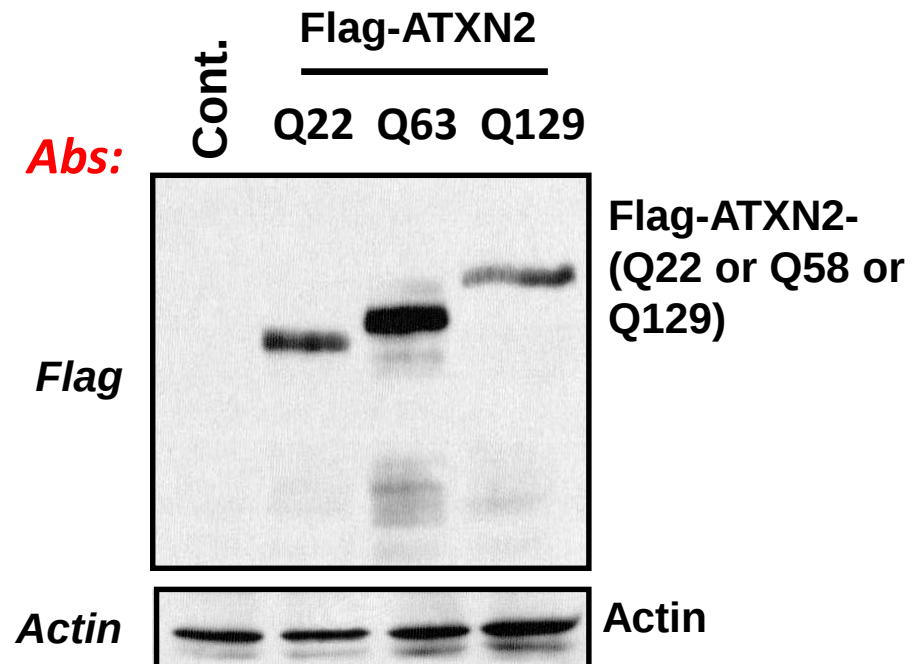
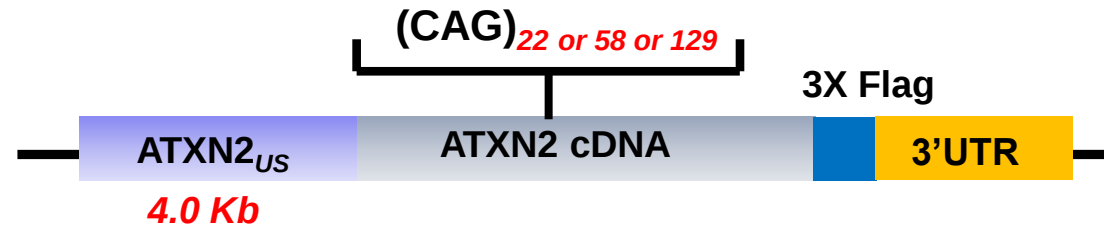
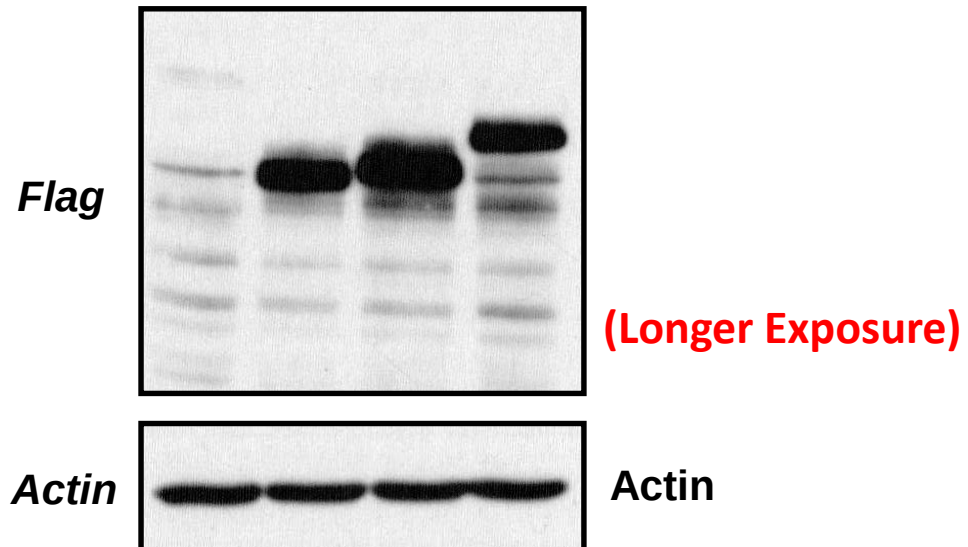
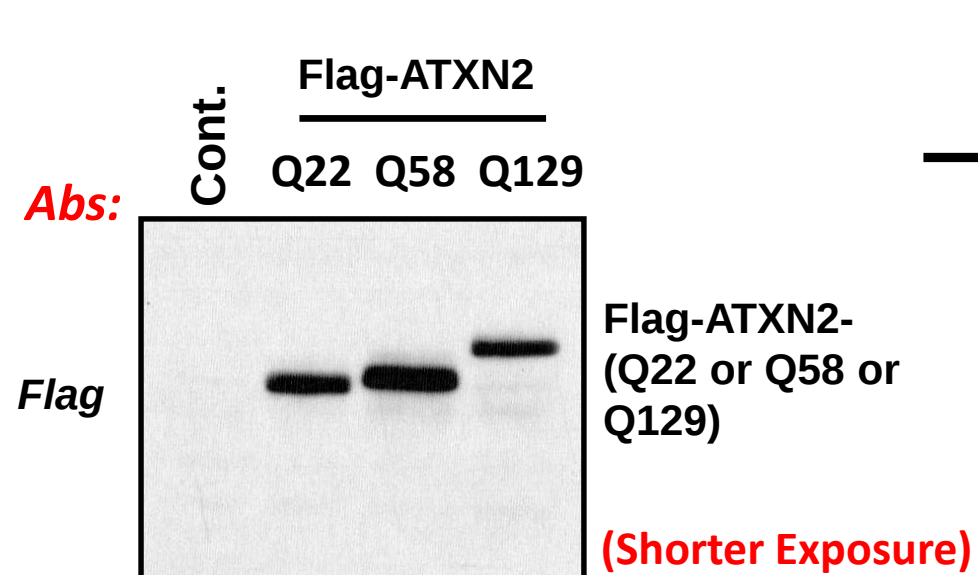


Western blot

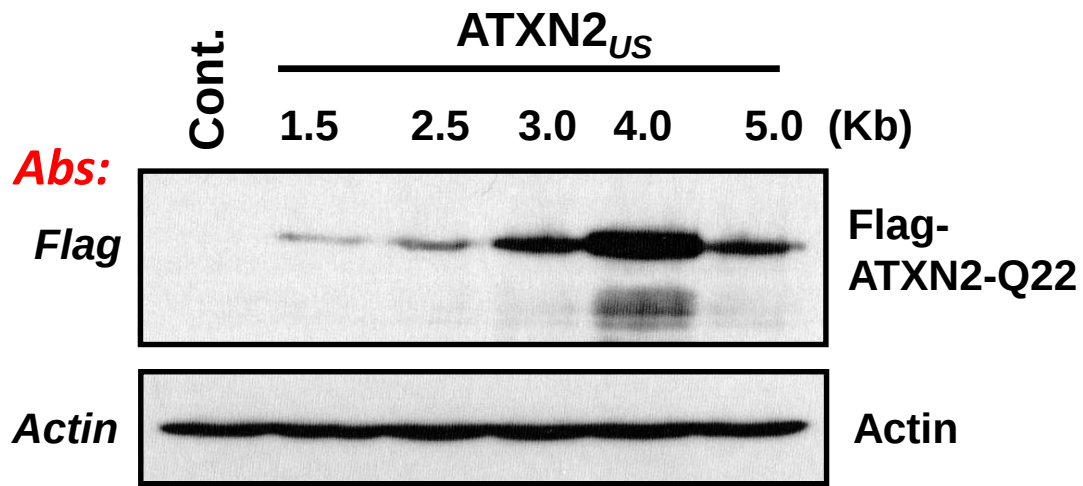
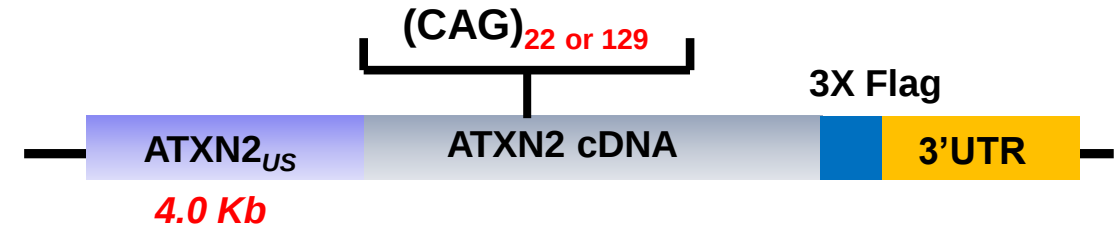
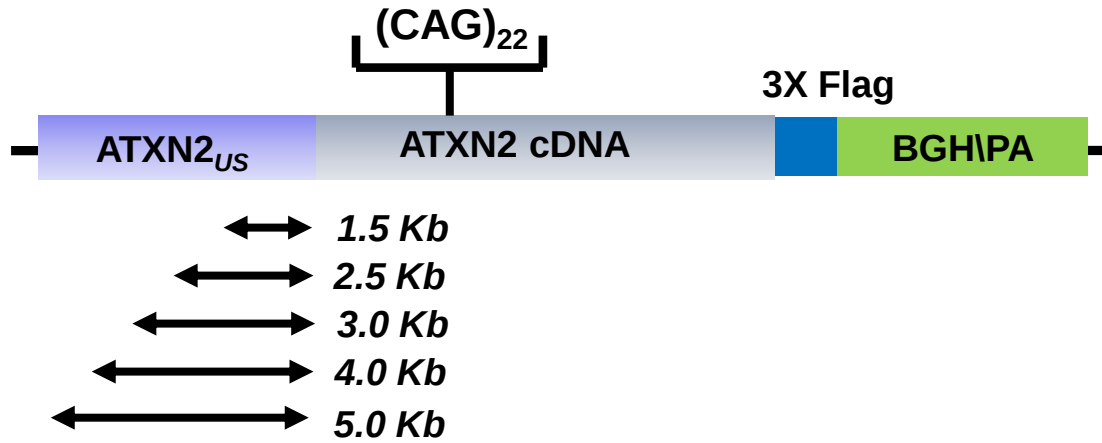


Agarose Gel

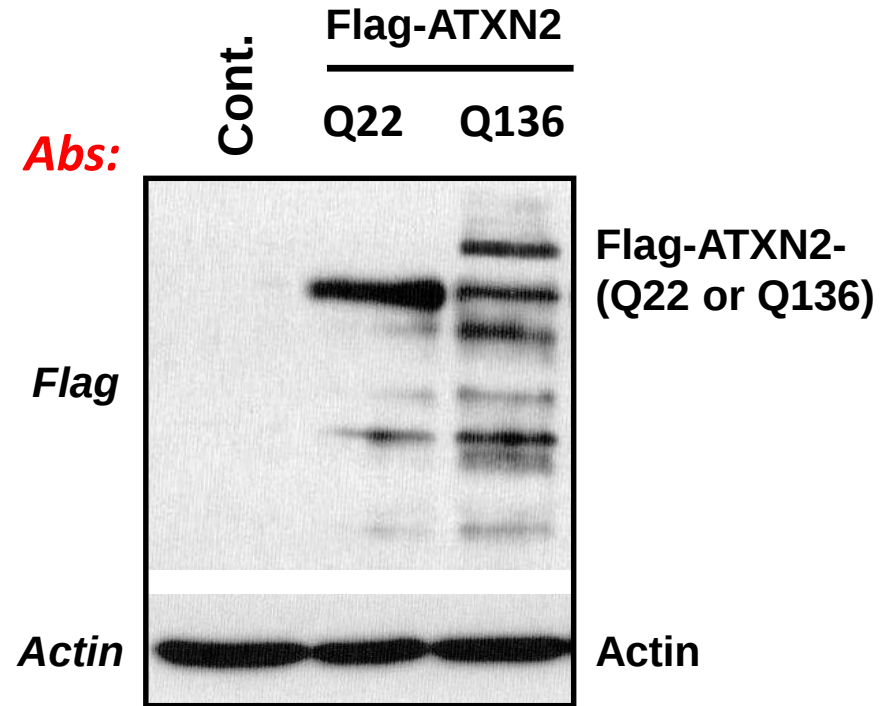
Transgenic Vector update



Transgenic Vector update



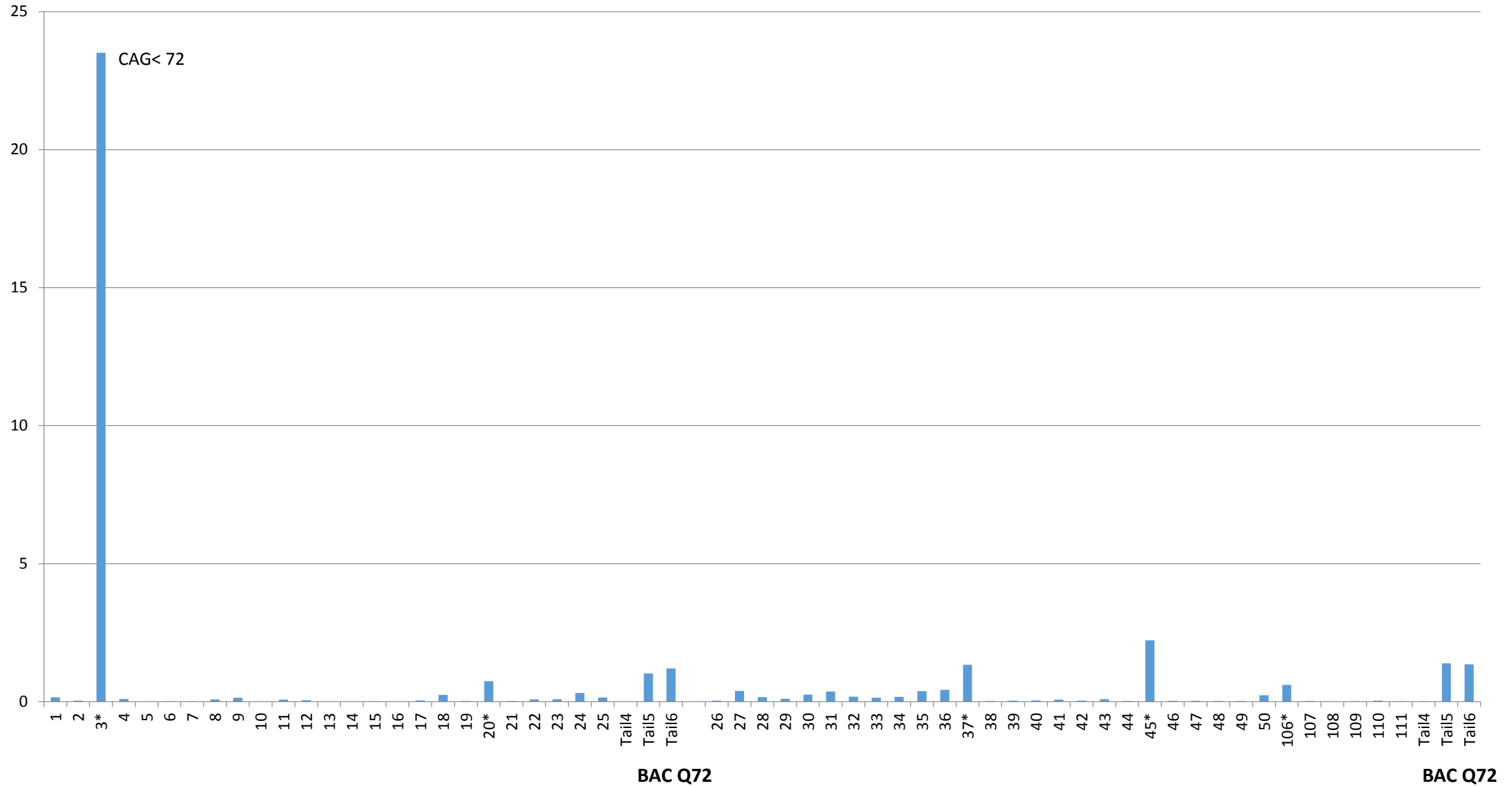
Western blot



Western blot

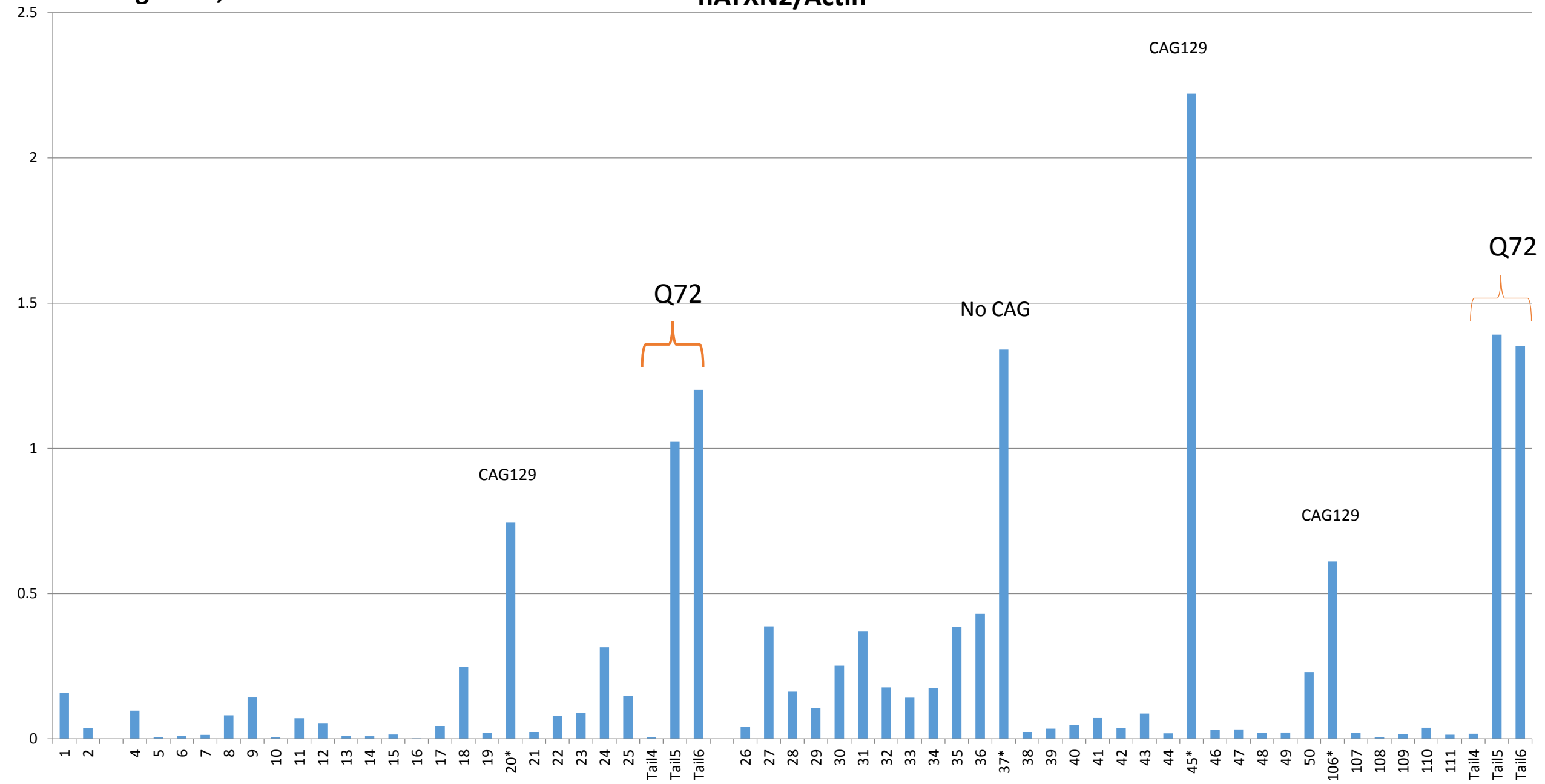
Tag#1-50,106-111

hATXN2/Actin



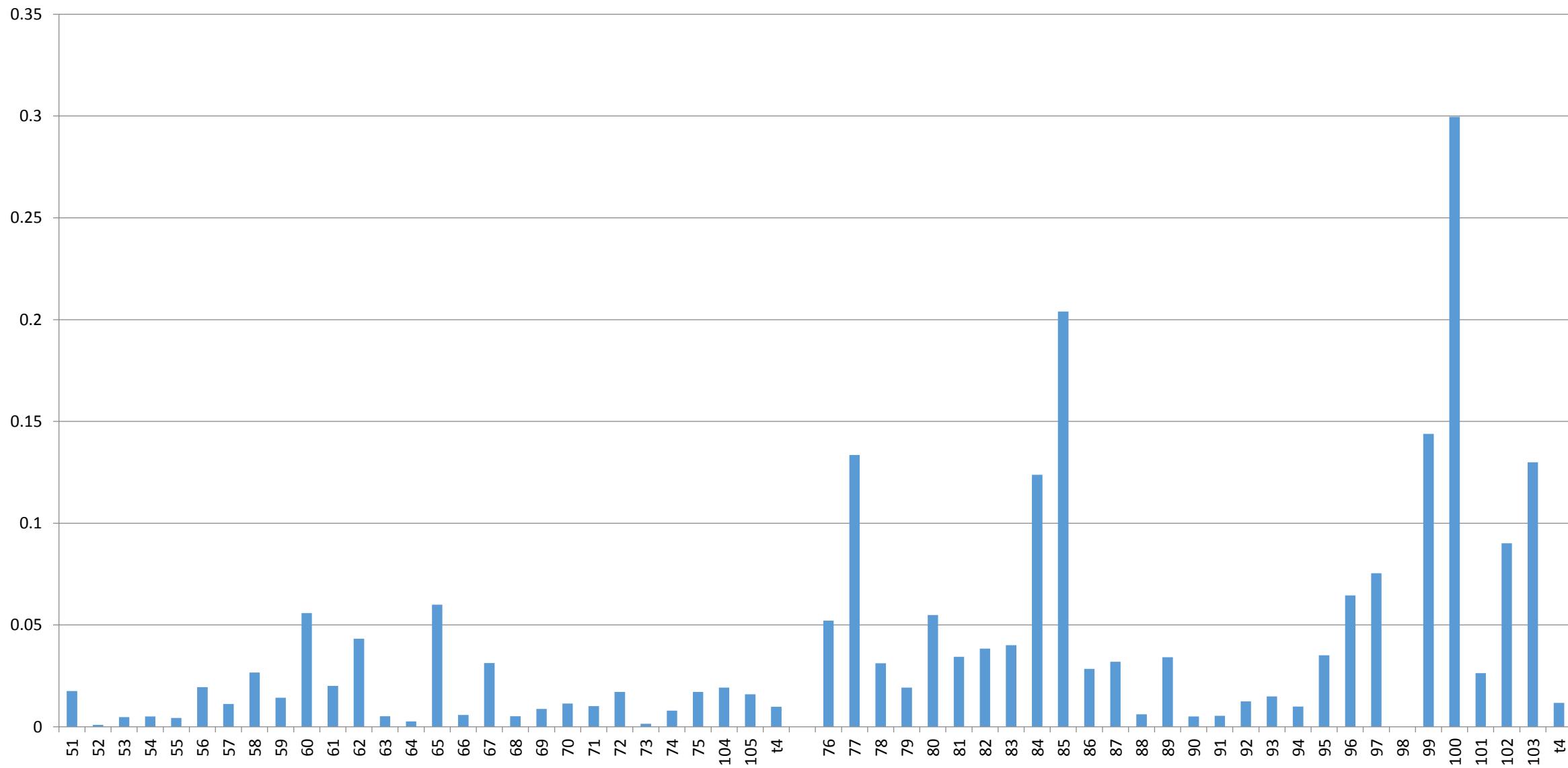
Tag#1-50,106-111

hATXN2/Actin

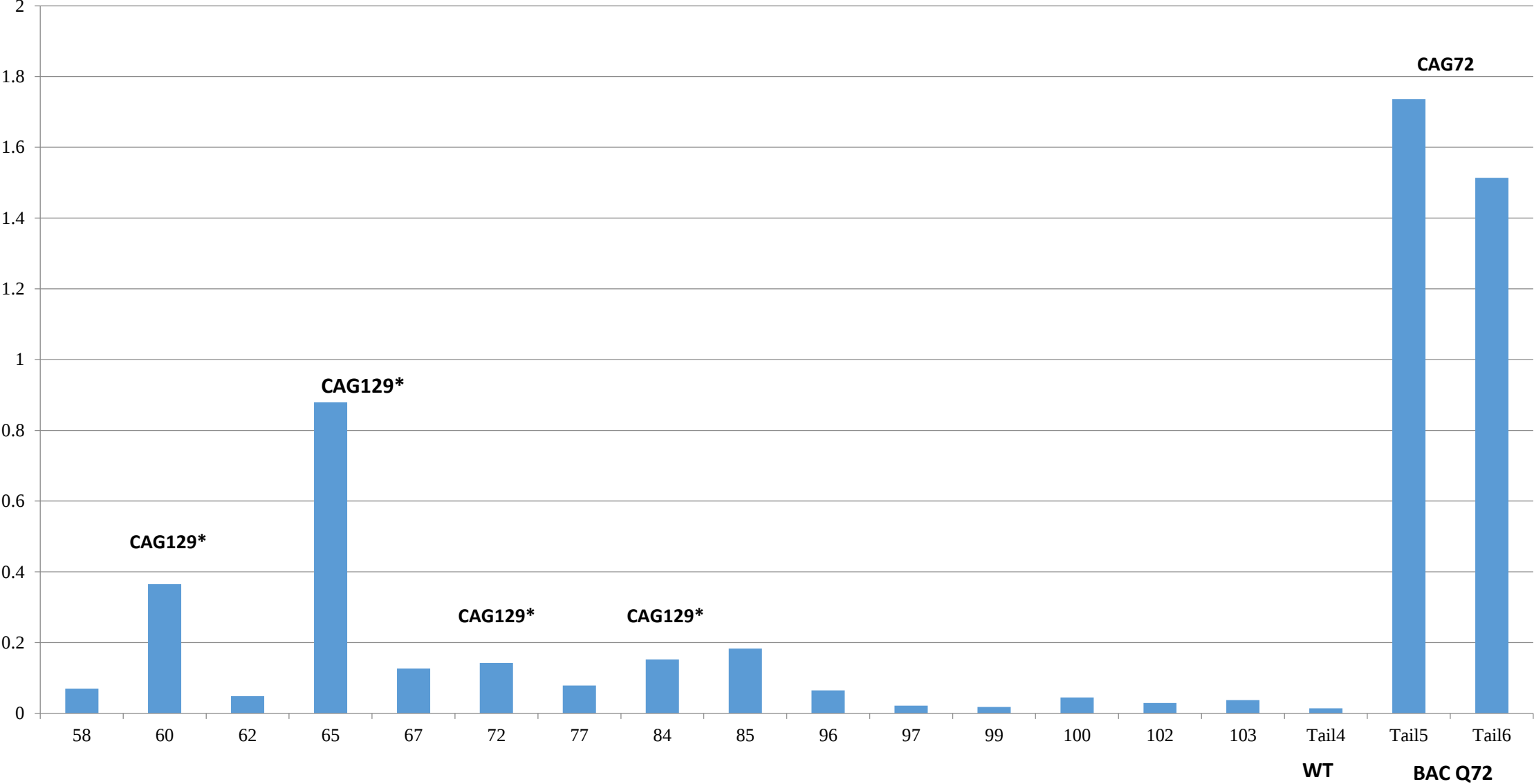


Tag#51-105

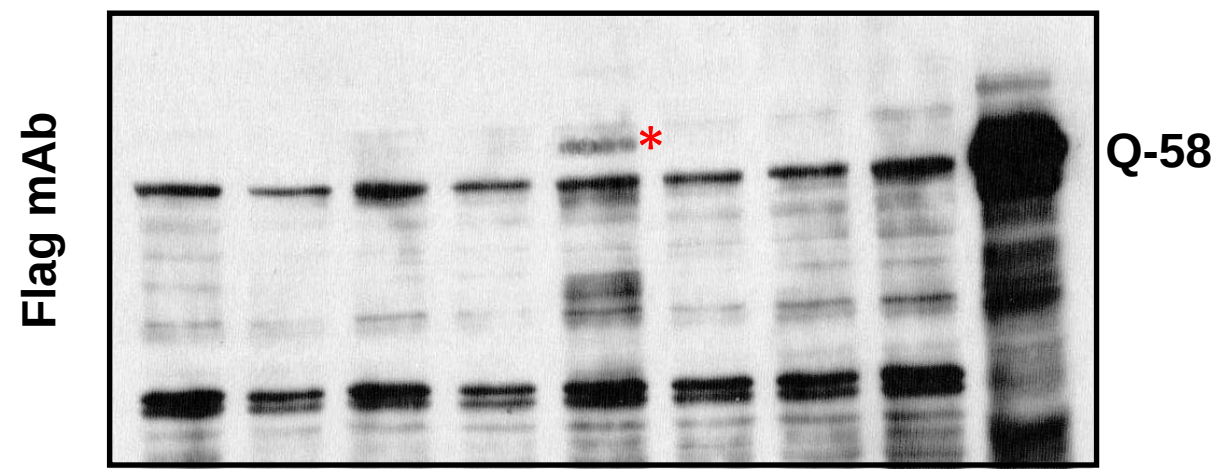
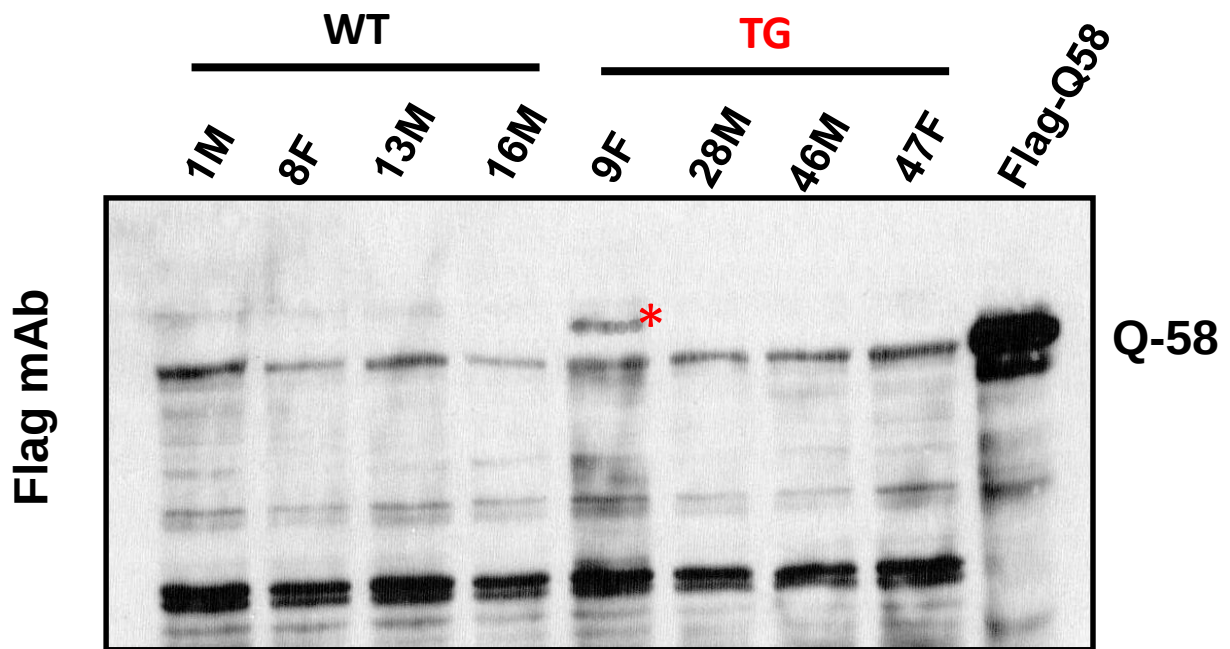
hATNX2/Actin



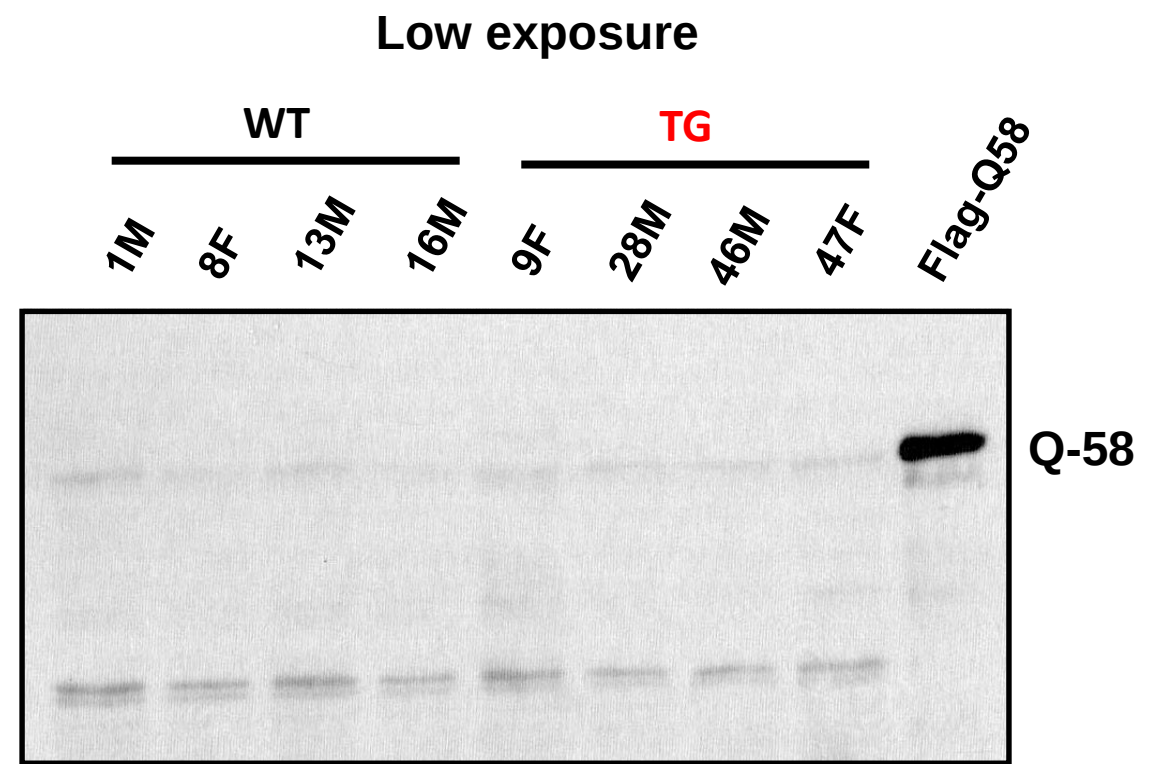
hATXN2/Actin



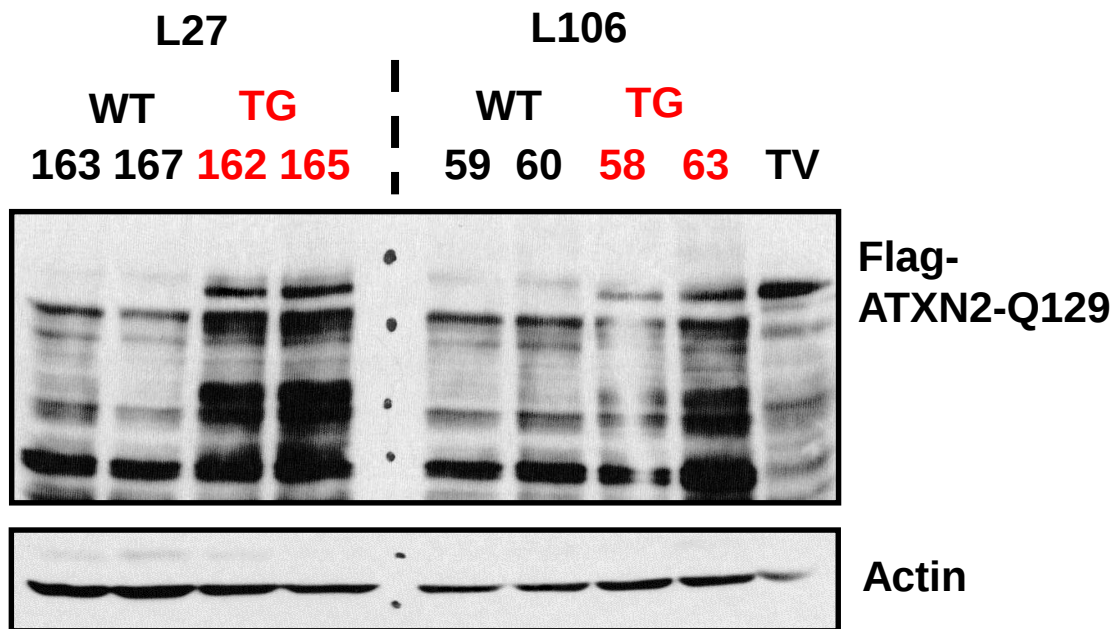
Western blot for Flag-mice founder



Western blot

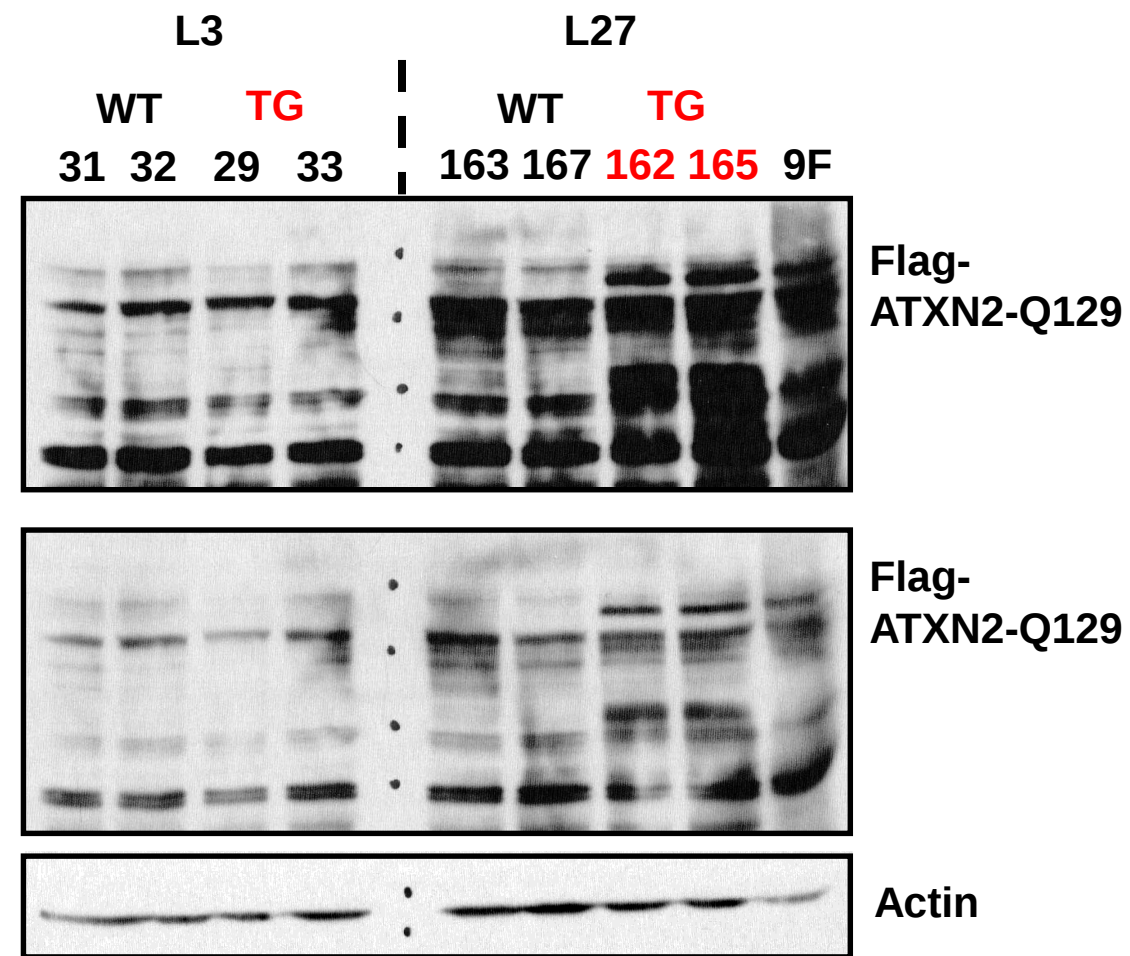


Western blot



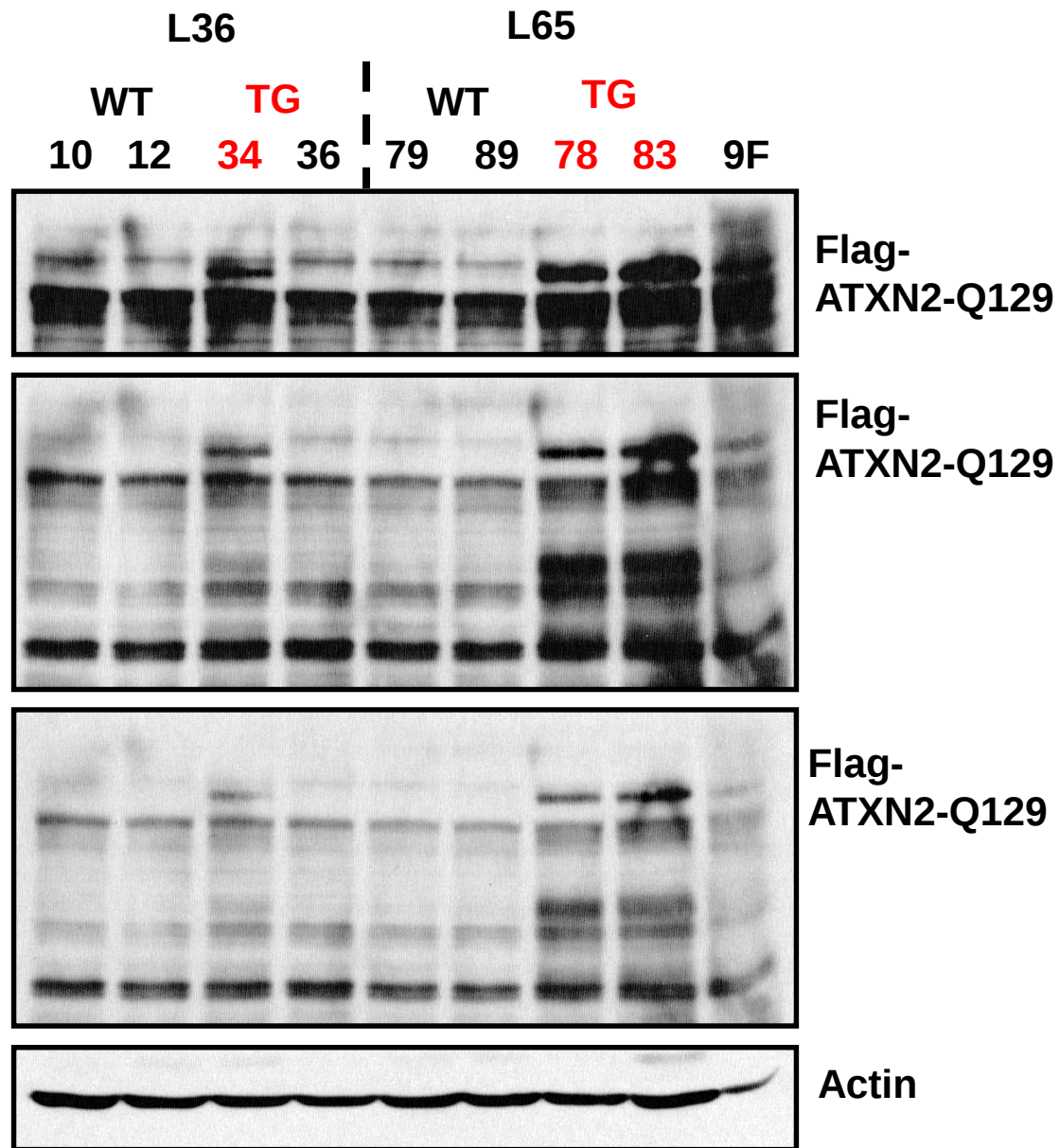
Western blot

Flag and Actin abs



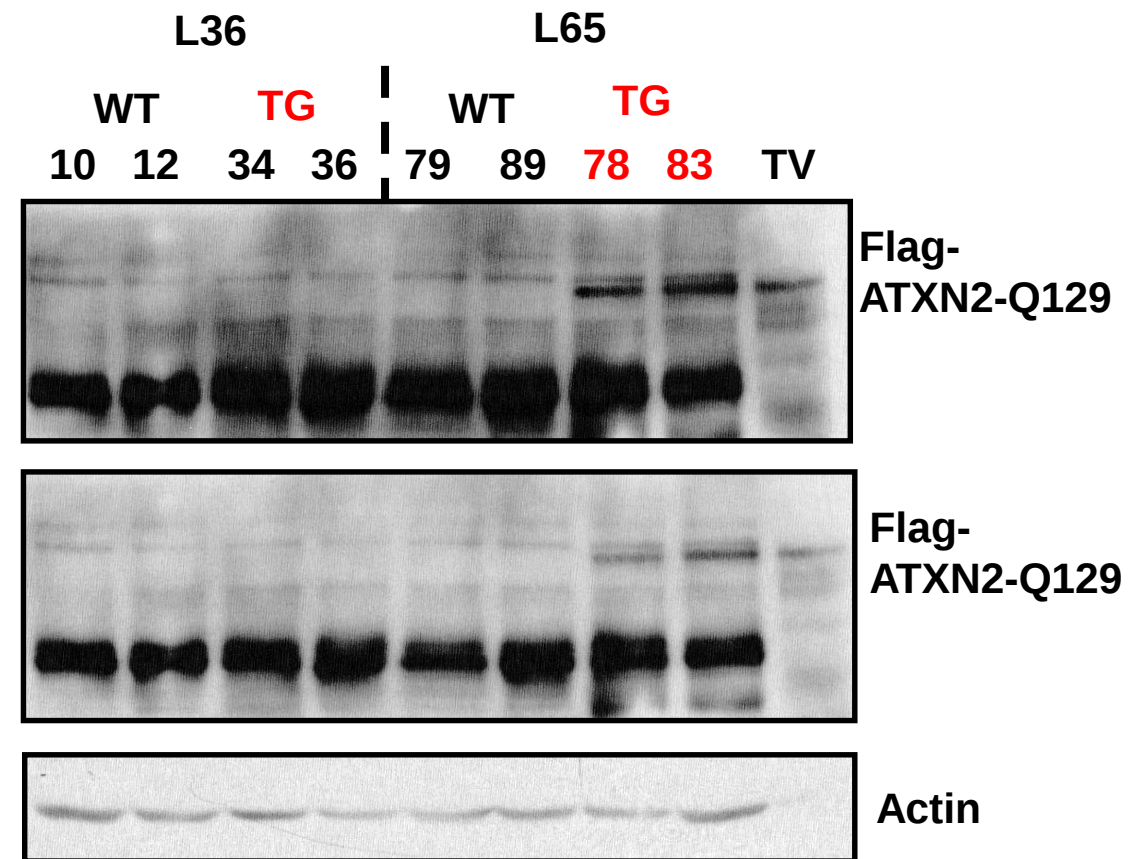
Western blot

Flag and Actin abs



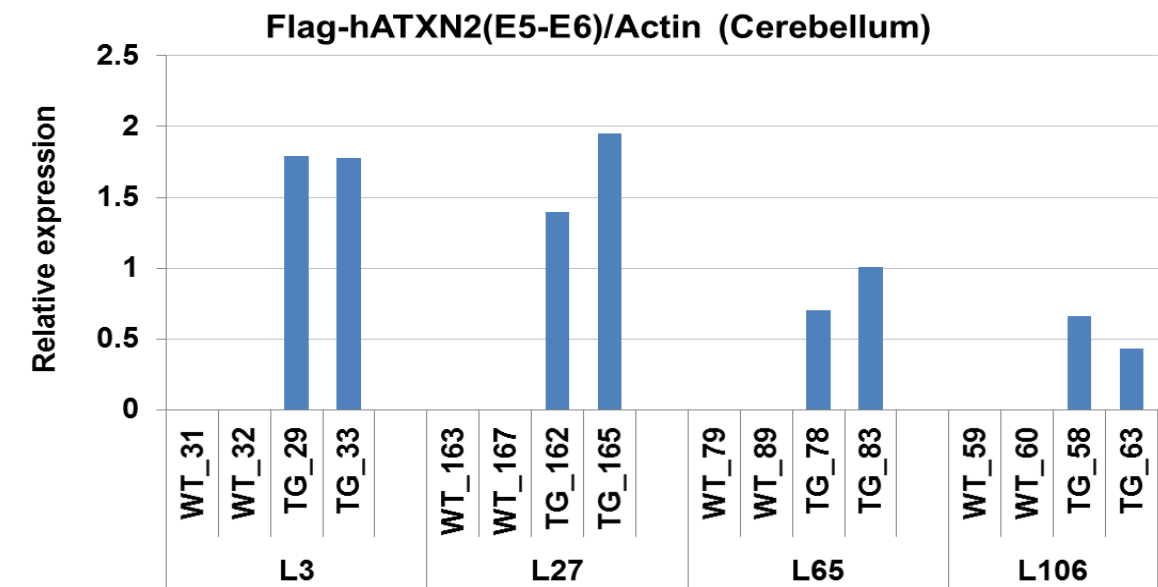
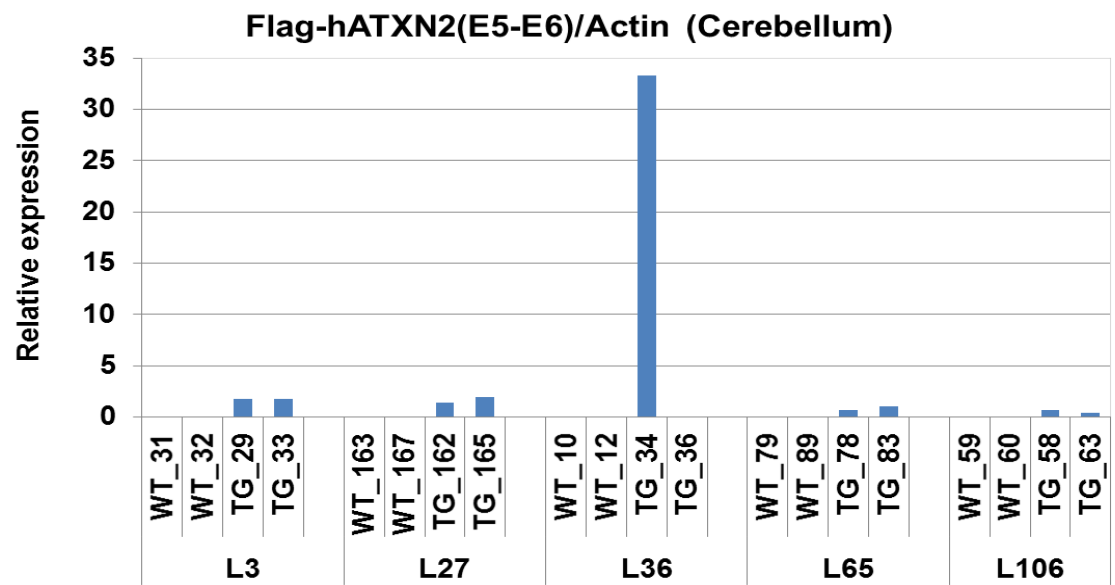
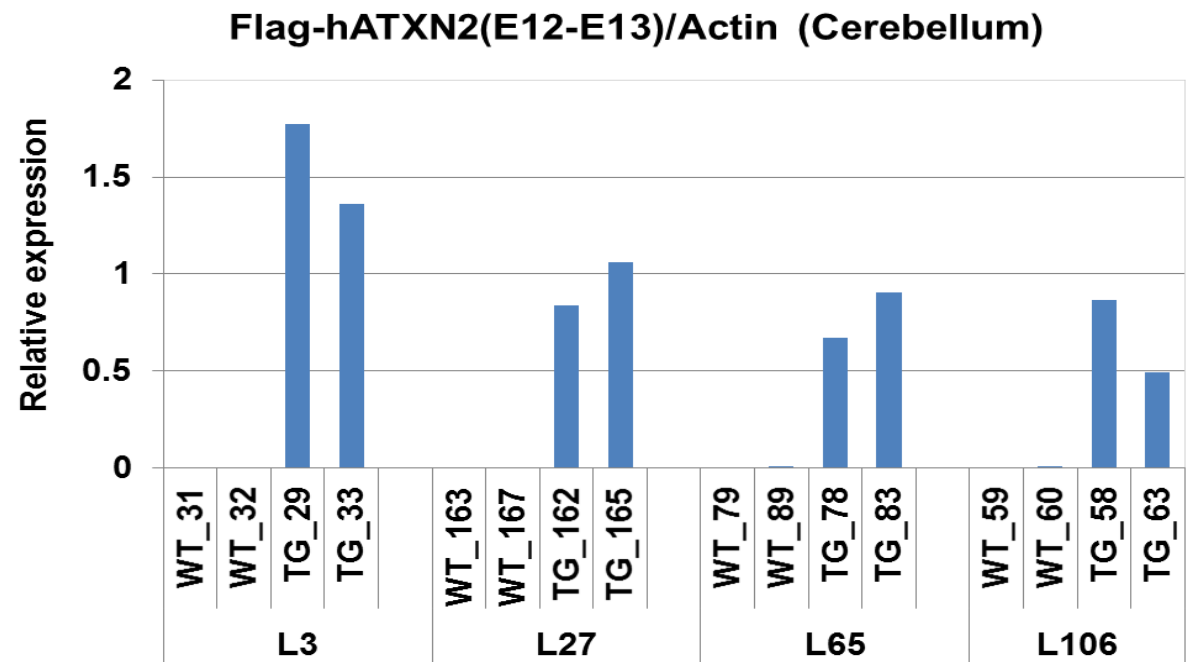
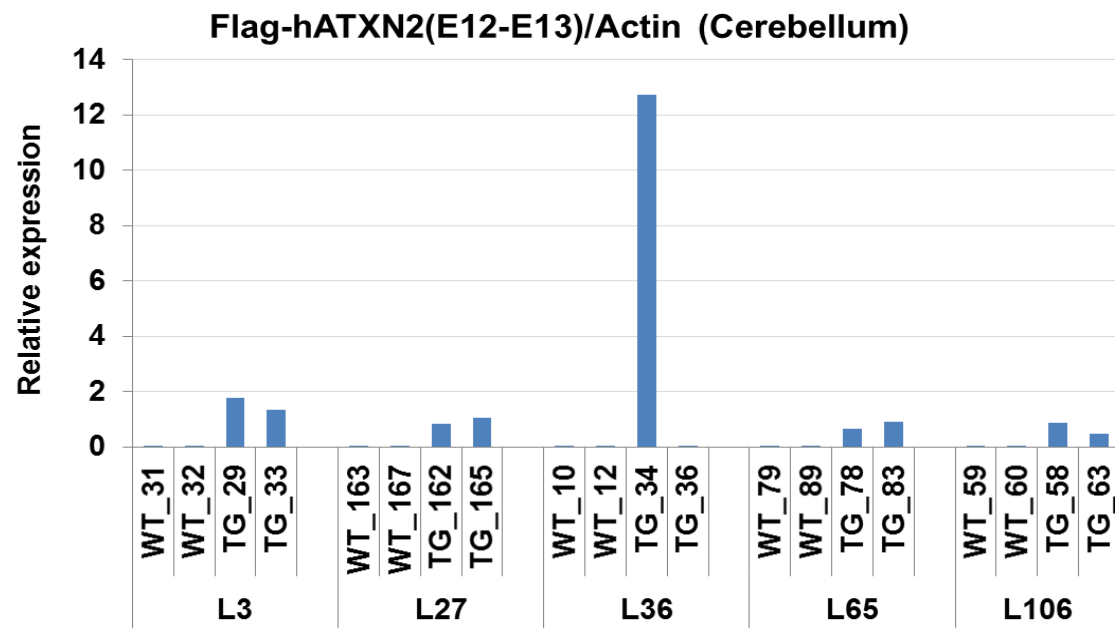
Western blot

Flag and Actin abs

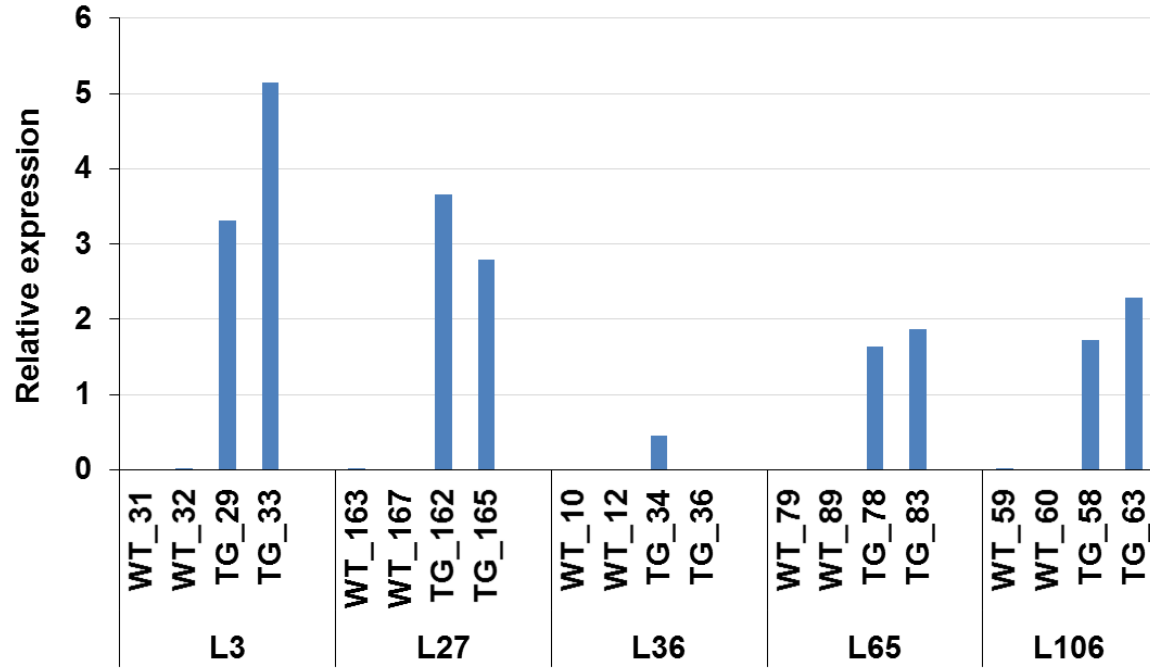


Western blot

1C2 and Actin abs



Flag-hATXN2(E12-E13)/Actin (Spinal cord)



Flag-hATXN2(E5-E6)/Actin (Spinal cord)

