GRM7b C-ON Genotyping Protocol

Tail Prep:

- 1. Turn heat block to 95 degrees prior to going to the animal facility so that it is at temperature when you return.
- 2. Perform tail biopsy on pre-weaning pup, preferably prior to P15, when bones begin to ossify.
- 3. Place tail in 1.5mL microcentrifuge tube and chemically cauterize the wound with a silver stick
- 4. Add 300ul of 50mM NaOH to each tube and vortex
- 5. Place tubes at 95 degrees for 15 minutes, vortexing once every 5 minutes (the heat will blanch the skin and the NaOH will then lyse the cells. Vortexing assists in the blanching process.)
- 6. Remove tubes from heat block
- 7. Stop the lysis by addition of 30ul 1M Tris-HCl to each tube.

For the C-ON allele:

1. Set up the following reaction:

Conc.	Reagent	ul/rxn	Mastermix
2x	DreamTaq PCR Mastermix	12.5	
10uM	Primer 246	1	
10uM	Primer 247	1	
10uM	Primer 248	1	
	DNA	2	
	H20	7.5	

^{**} Make sure to do a control tube with water instead of DNA**

2. Run PCR in the thermal cycler under the following conditions:

Date:

Mice:

Temp	Time	
94	3:00	
94	0:30	
60	0:45	→ x 40 cycles
72	1:00	
72	7:00	
4	Hold	

3. Run products on a 1.5% gel

Primer 246: 5'-CAGACTTGTGGGATACAGAAGAC-3' Primer 247: 5'-AGTCCACCTCACTCCTCATAAC-3' Primer 248: 5'-CAATGGAAAGTCCCTATTGGCG-3'

Product Sizes: WT: 758 bp

Flx/Flx or ON/ON: 535 bp Flx/+ or ON/+: 758 + 535 bp

For the Recombined allele:

1. Set up the following reaction:

Conc.	Reagent	ul/rxn	Mastermix
	<u> </u>	·	Widsterrinx
2x	DreamTaq PCR Mastermix	12.5	
10uM	Primer 264	1	
10uM	Primer 265	1	
	DNA	2	
	H20	8.5	

- ** Make sure to do a control tube with water instead of DNA**
- 2. Run PCR in the thermal cycler under same conditions as above:
- 3. Run products on a 1.5% gel

Primer 264: 5'-GCAGCAGGGGAACTTCATCAAAG-3' Primer 265: 5'-GGCAACGTGCTGGTTATTGTG-3'

Product Sizes:

Flx/+ or Flx/Flx: 1099 bp

ON/+ or ON/ON (recombined): 222 bp