

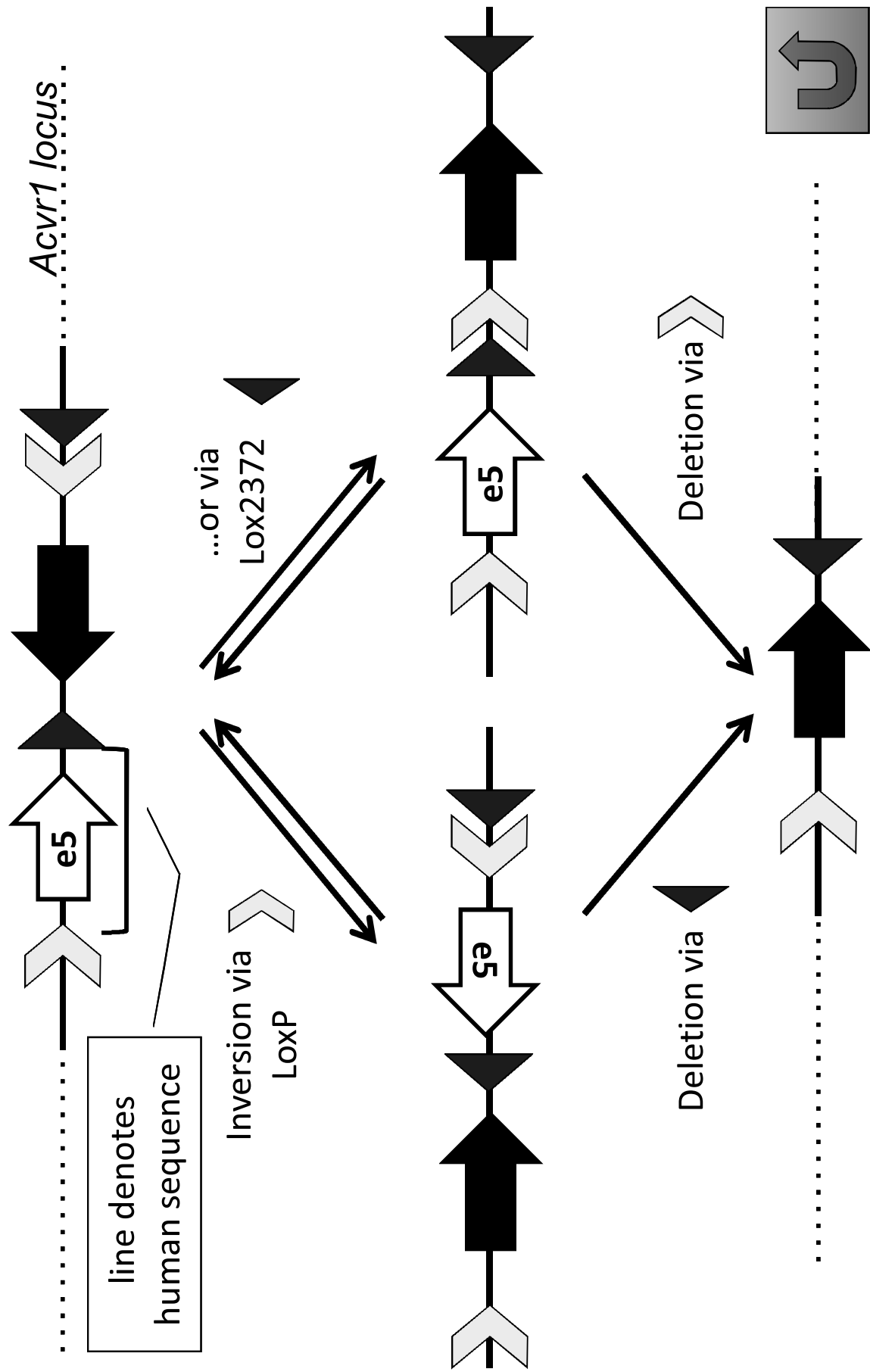


FIG. 1

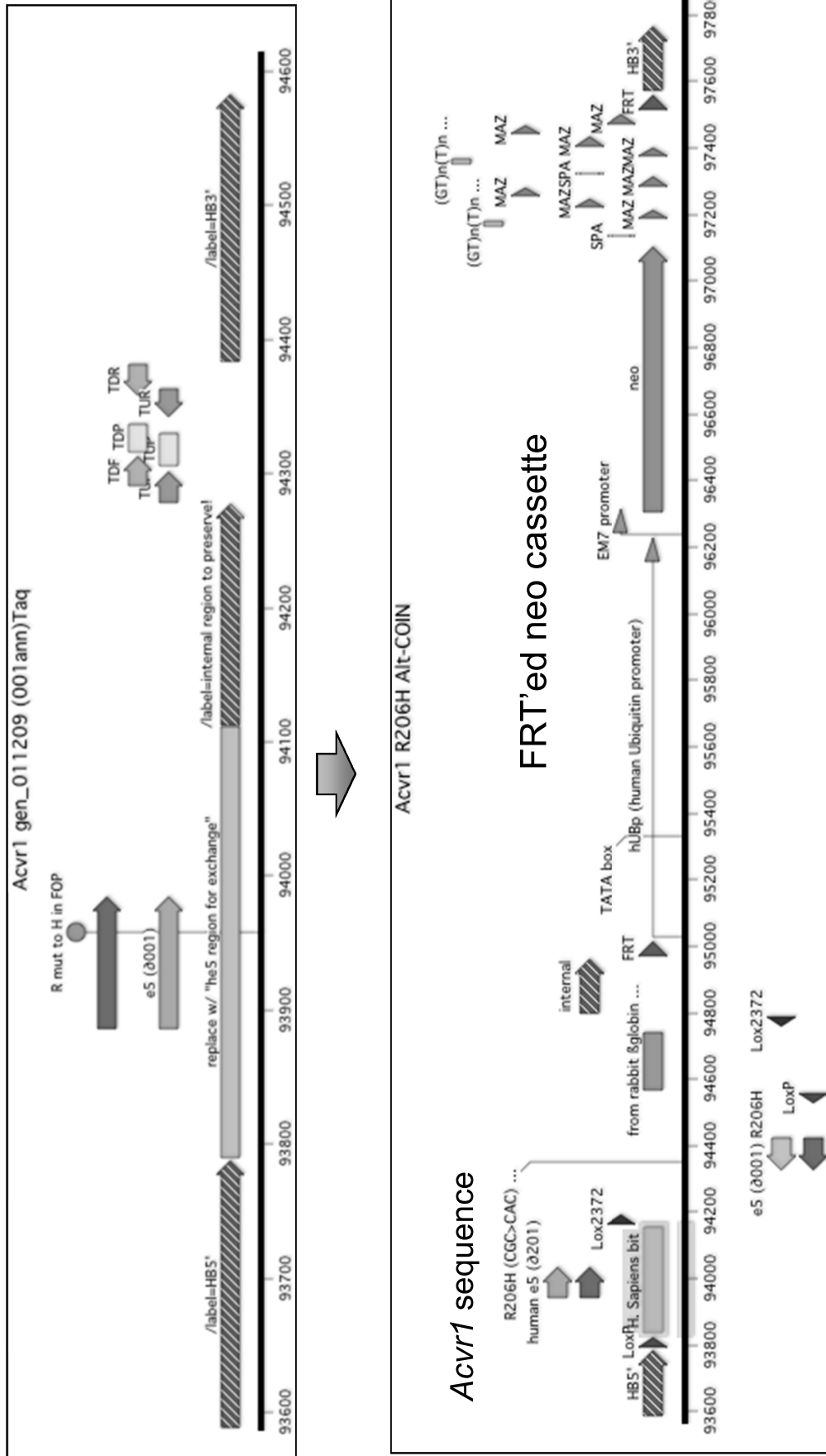
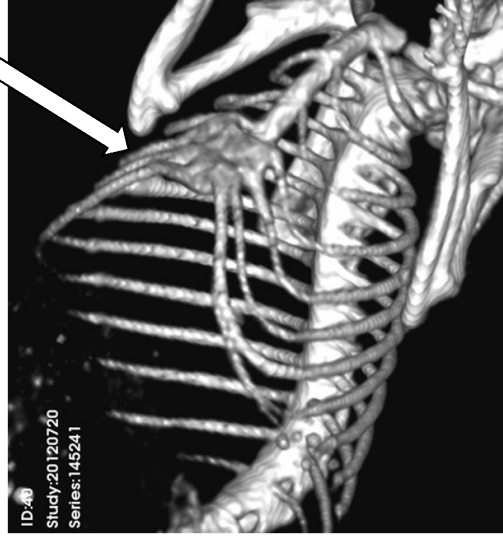


FIG. 2

No tamoxifen



tamoxifen



- 6 Acvr1^{(R206HCOIN)/+}; CreERT2^(1649HET,2251HET)
- 5 mice given tamoxifen
 - 1mg/mouse/day for 8 days
 - 1 control with no tamoxifen
- μ CT 19 weeks post tamoxifen
- Ectopic bone formation seen in mice given tamoxifen (white arrows)
- By 10 weeks, tamoxifen treated mice were noted to seem stiffer but we couldn't see anything on the faxitron xray images.

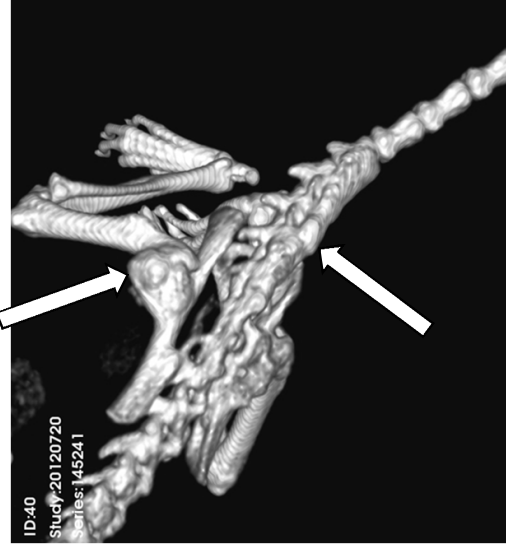
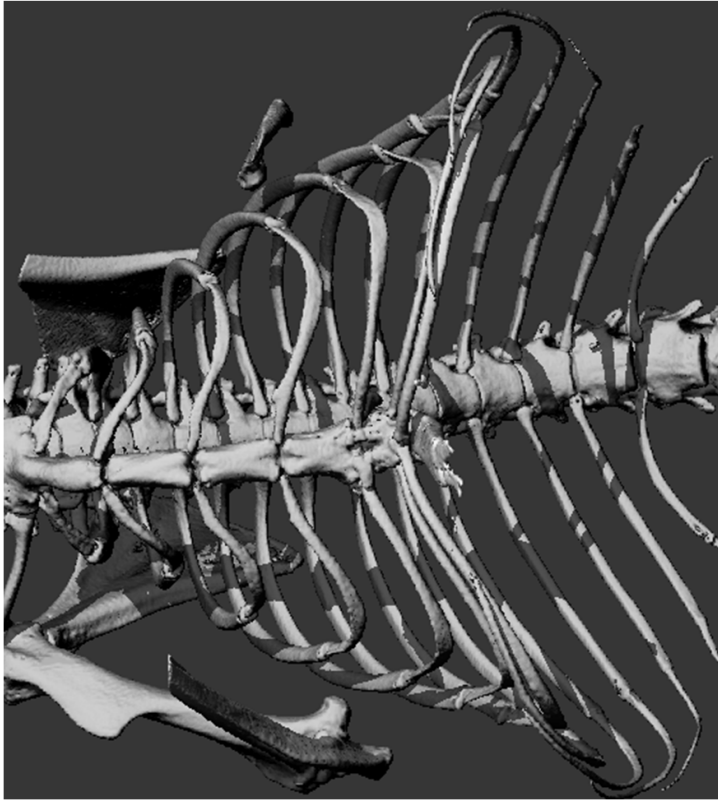


FIG. 3

No tamoxifen



tamoxifen

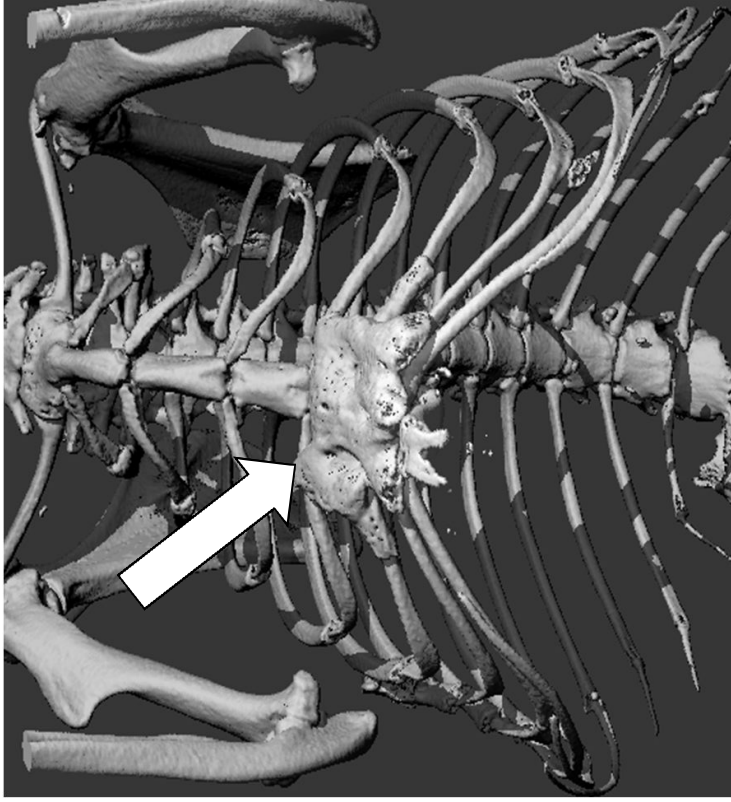


FIG. 4

No tamoxifen



tamoxifen

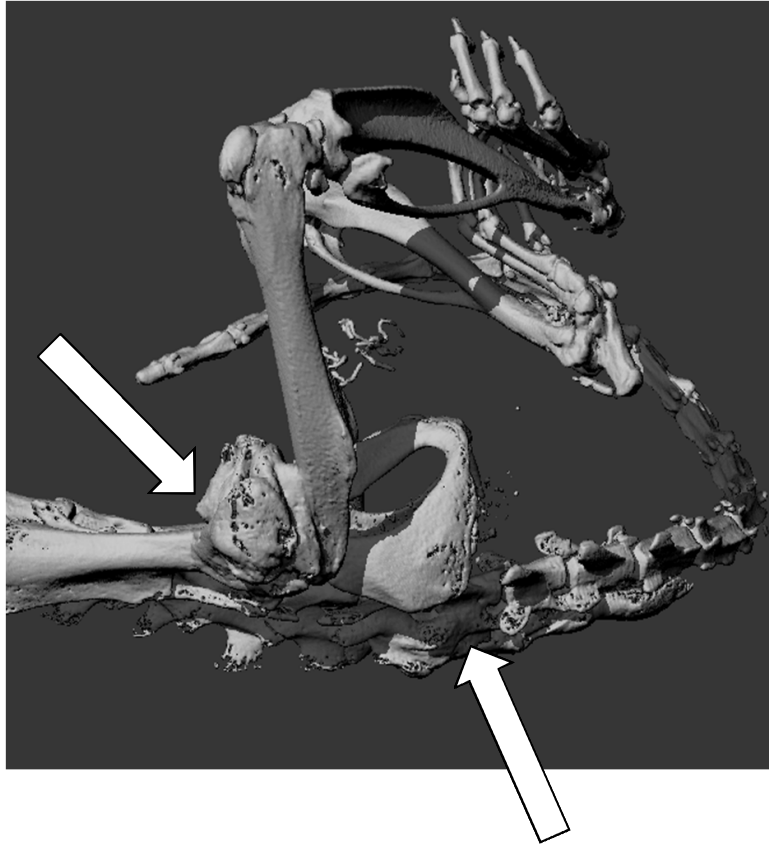
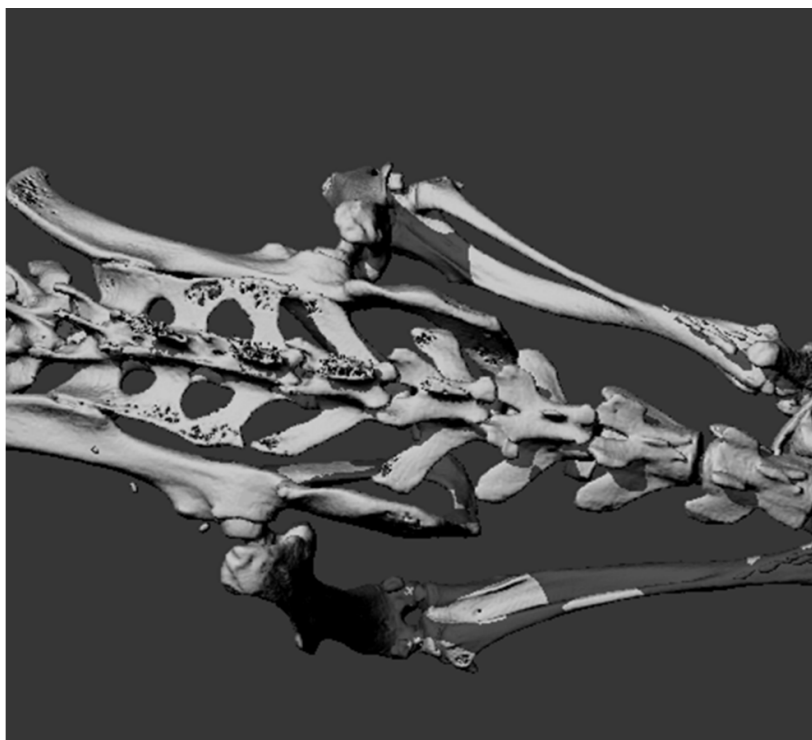


FIG. 5

No tamoxifen



tamoxifen

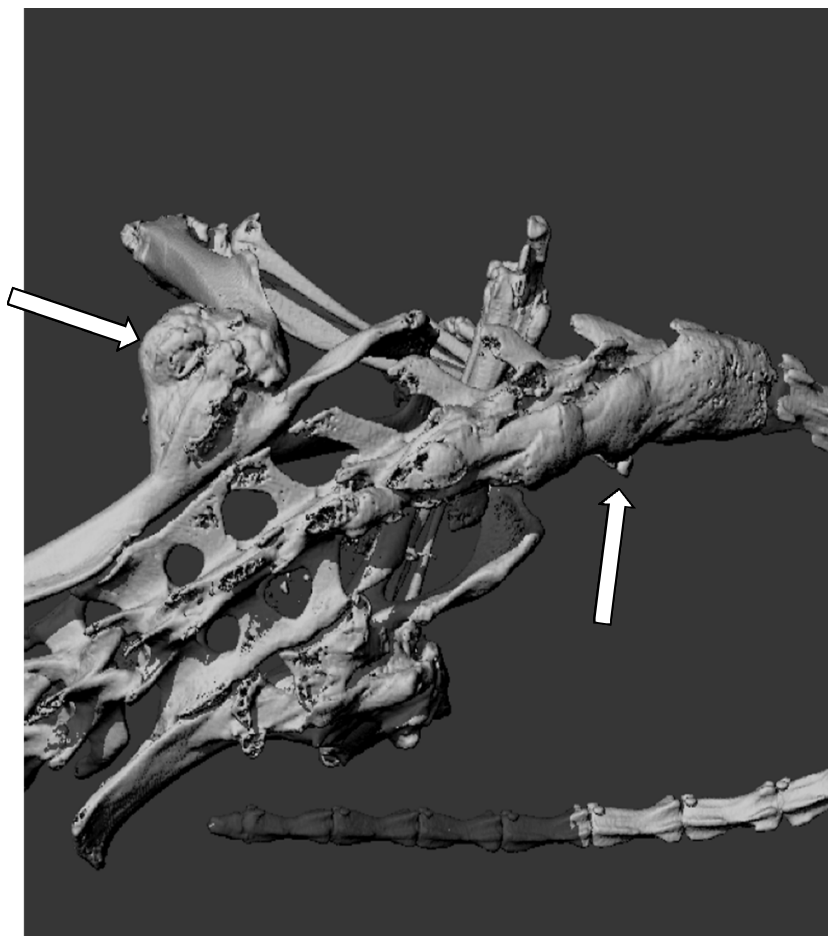
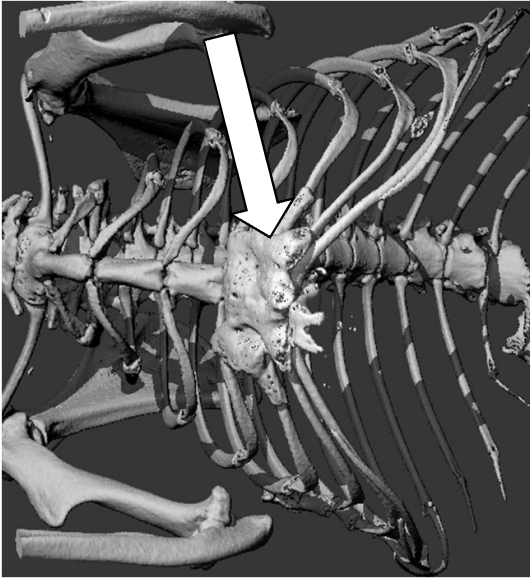


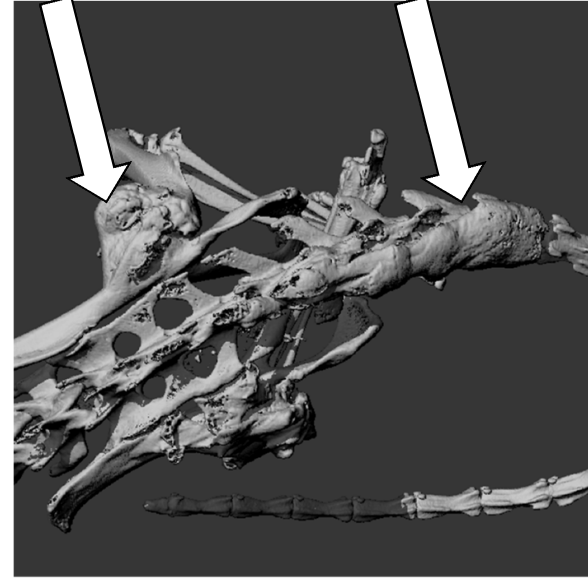
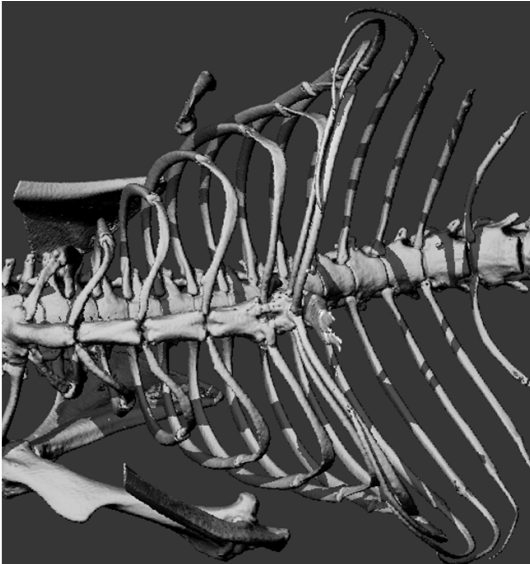
FIG. 6

Tamoxifen #2
ID: 845202



Ectopic bone
formation: Sternebra

Control #1
ID: 840095



Ectopic bone
formation: Hip joint

Ectopic bone
formation: Caudal
vertebrae

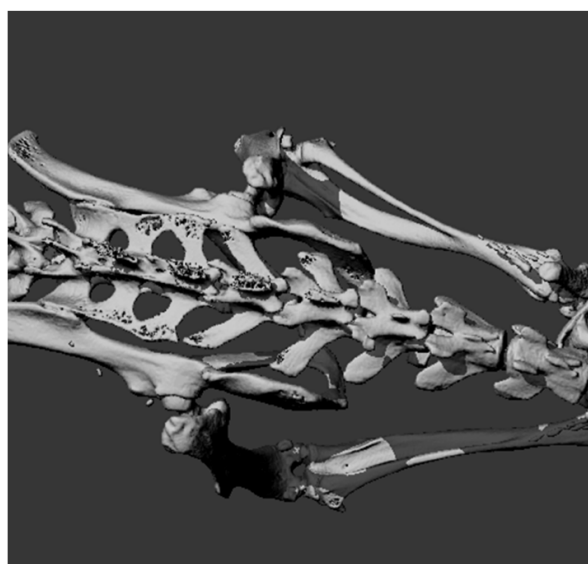
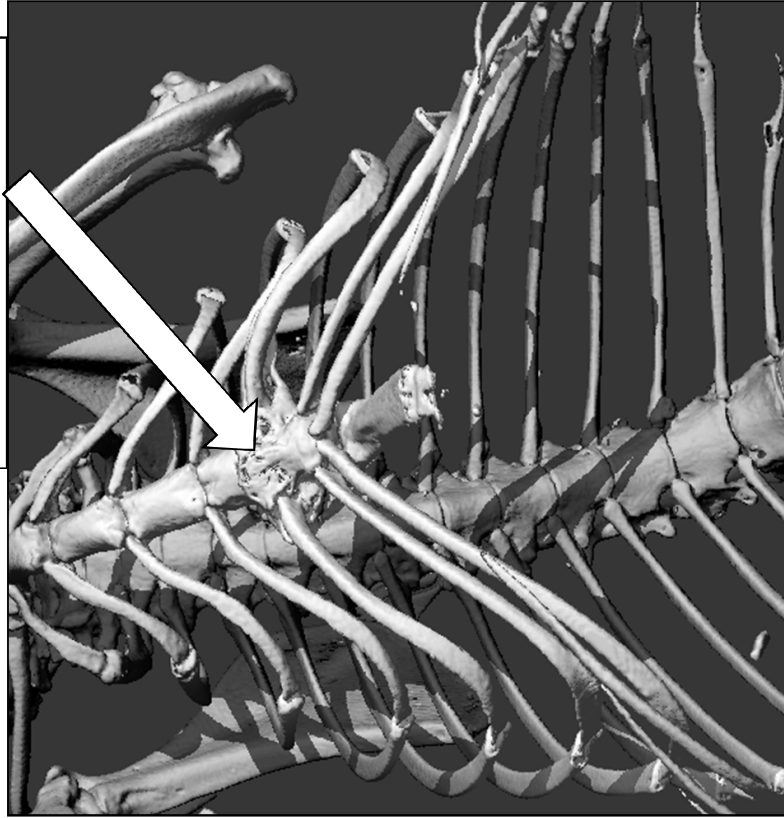


FIG. 7

Tamoxifen #3
ID: 915546

Ectropic bone
formation: Sternebra



Ectropic bone formation:
Caudal vertebrae



FIG. 8

Tamoxifen #4

ID: 904067

No apparent ectopic bone formation

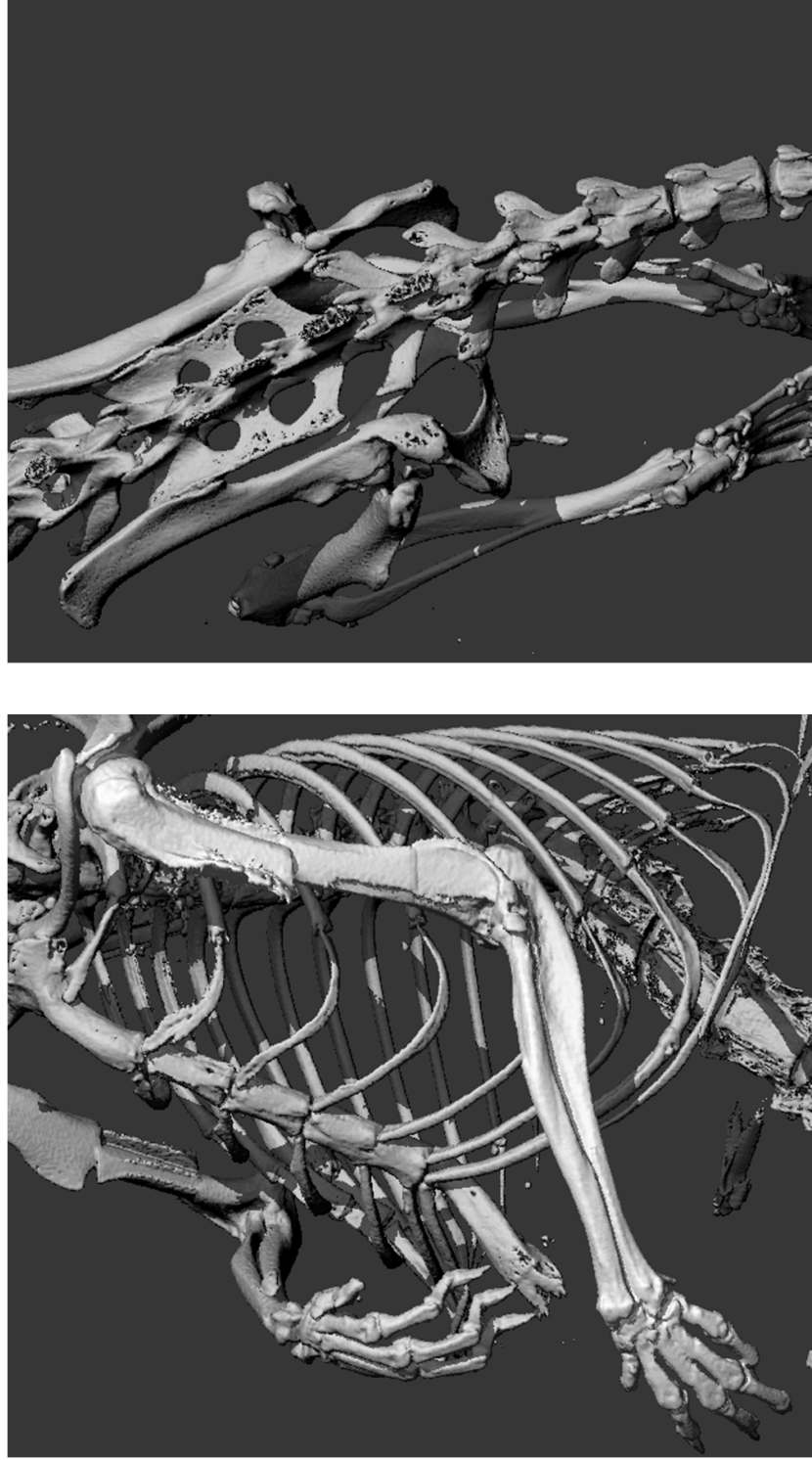


FIG. 9

Tamoxifen #5
ID: 840098

Ectopic bone
formation: Sternebra

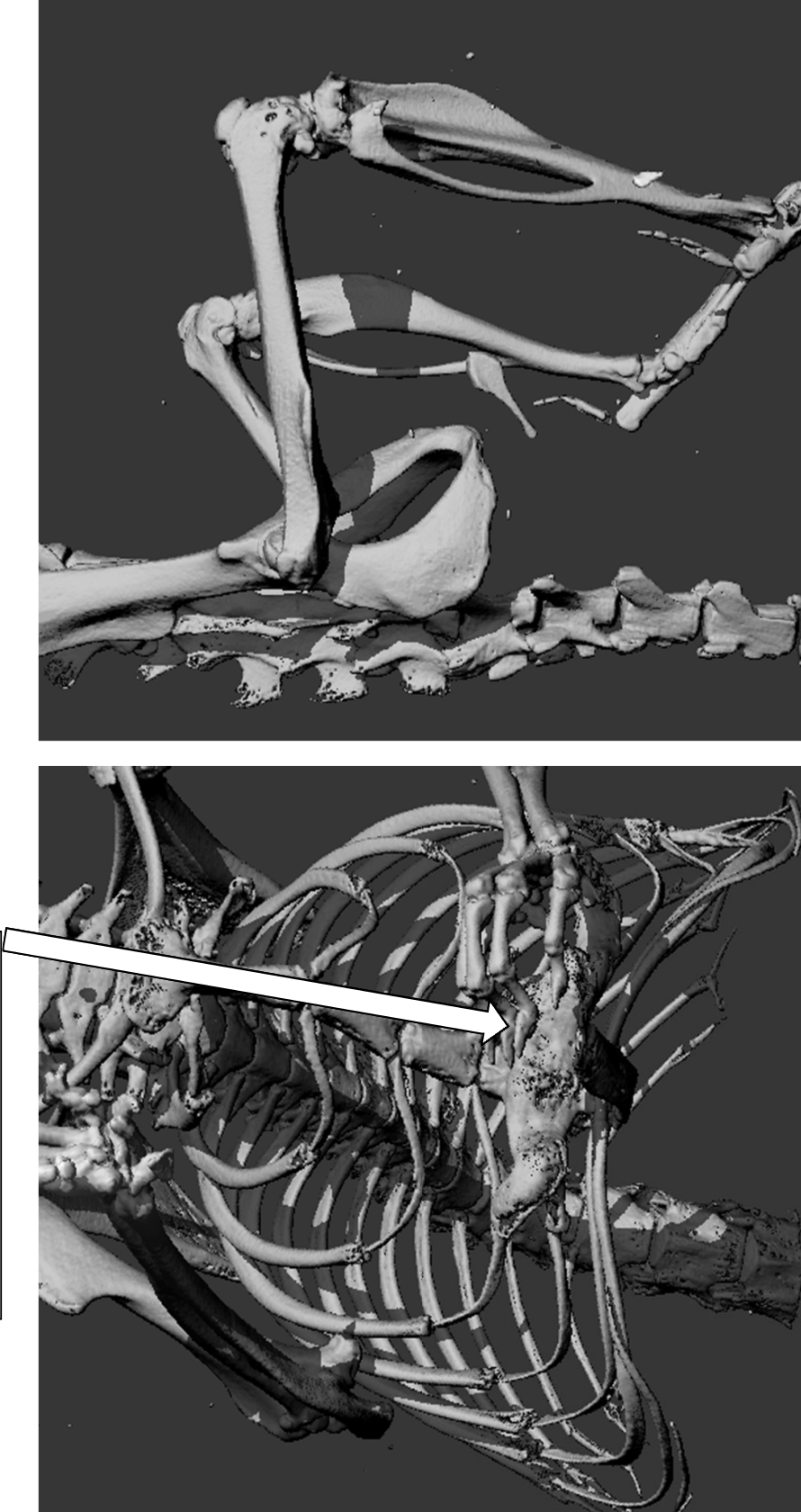


FIG. 10

Tamoxifen #6

ID: 863713

Ectropic bone formation:
Sternebra

Ectropic bone formation:
Knee joint

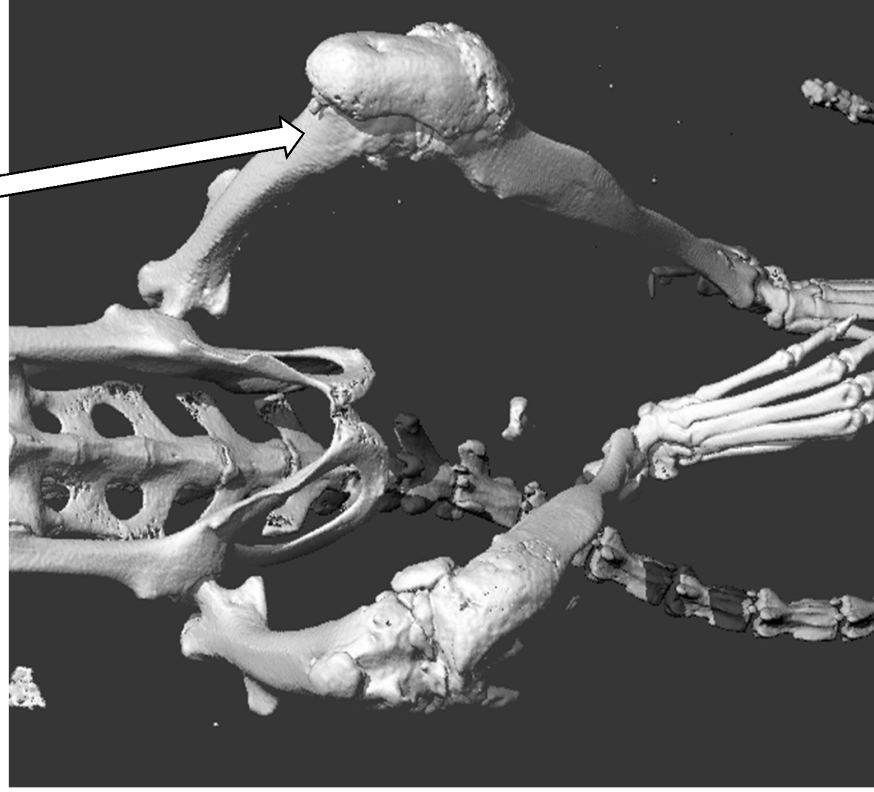
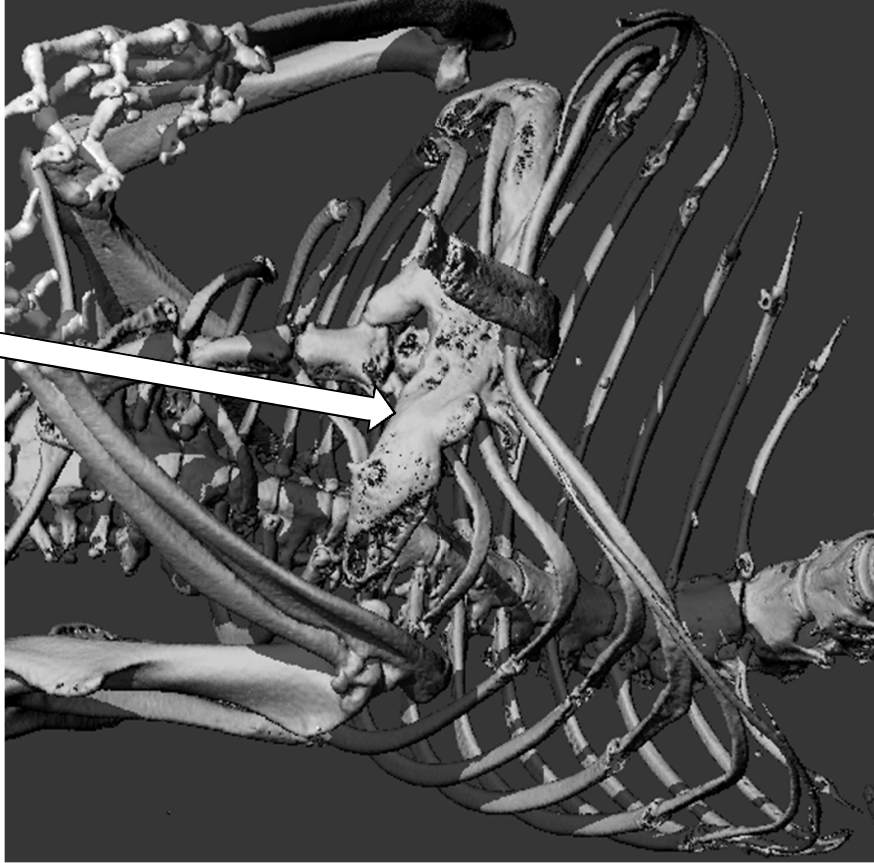


FIG. 11

Table 5. Primers and Probes for Genotyping Genetically Modified Mice										
Name	Target	Assay ID	Parameter Set	Primer or Probe Forward Primer	Strand or Label	5Pos	3Pos	Length	Tm	
Acvr1 i5 TU	S13080836	51	Most Restrictive v2.0	GGCTGACTGA TCTGAAGGAA ATGG	S	175	198	24	66.94	
Acvr1 i5 TD	S13081203	6	Less Restrictive v2.0	TGAAGGAAAT GGGCTTCTGG ATAG	S	4	27	24	67.16	
				Reverse Primer						
Acvr1 i5 TU	S13080836	51	Most Restrictive v2.0	AGAGGAAGGA GACGCTAAGA ATC	AS	260	238	23	65.4	
Acvr1 i5 TD	S13080836	6	Less Restrictive v2.0	CATACTCACT CTTCCTGTTA GAGGA	AS	96	72	25	65.71	
				Probe	Labeling	Strand	5Pos	3Pos	Length	TM
Acvr1 i5 TU	S13080836	51	Most Restrictive v2.0	TCTGGATAGT AAGGTCAGTT GCTGCG	FAM-BHQ-1	S	202	227	26	69.57
Acvr1 i5 TD	S13080836	6	Less Restrictive v2.0	AAGGTCAGTT GCTGCGTCTT CCC	FAM-BHQ-1	S	29	51	23	69.81

FIG. 12