

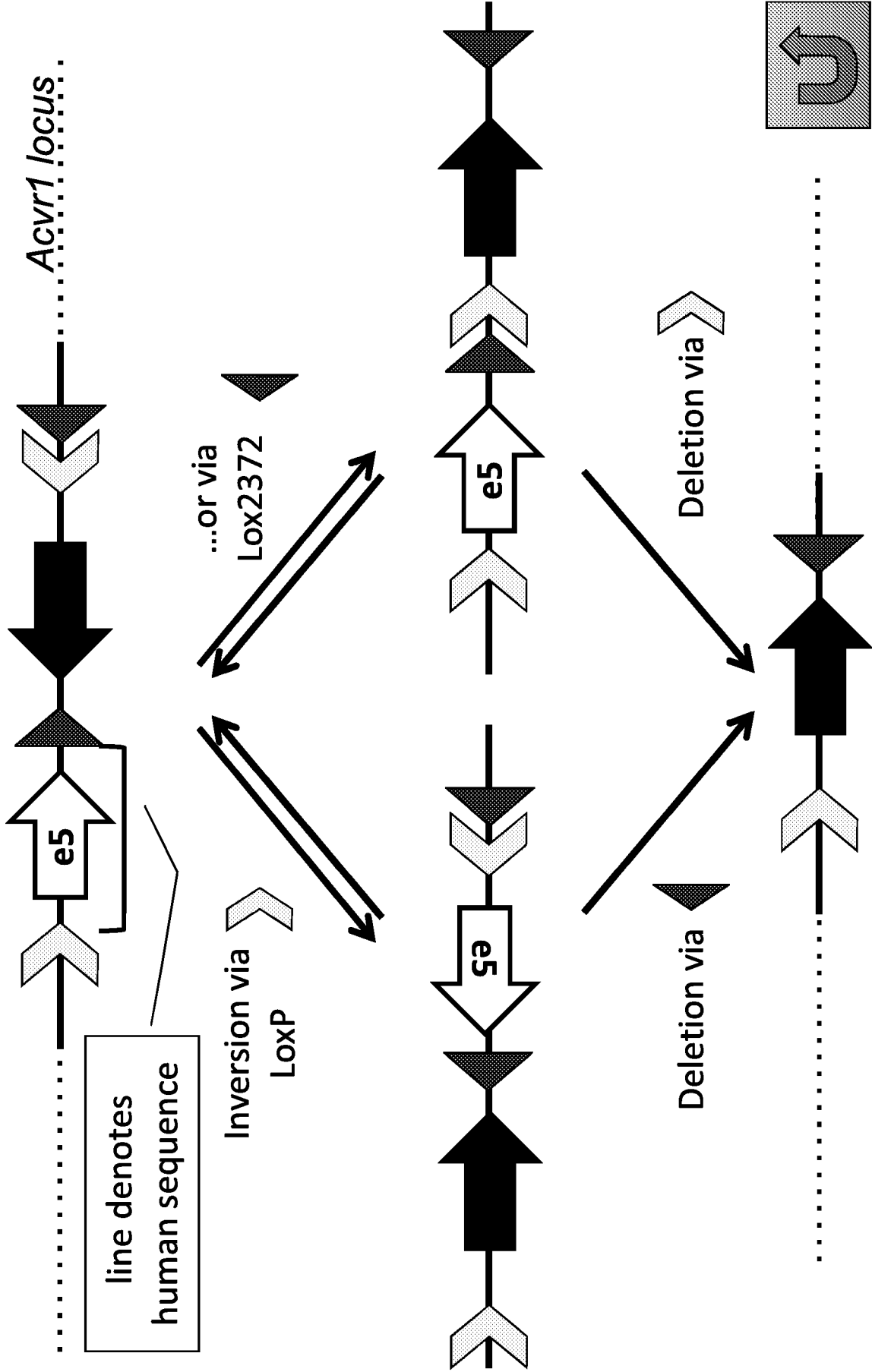


FIG. 1

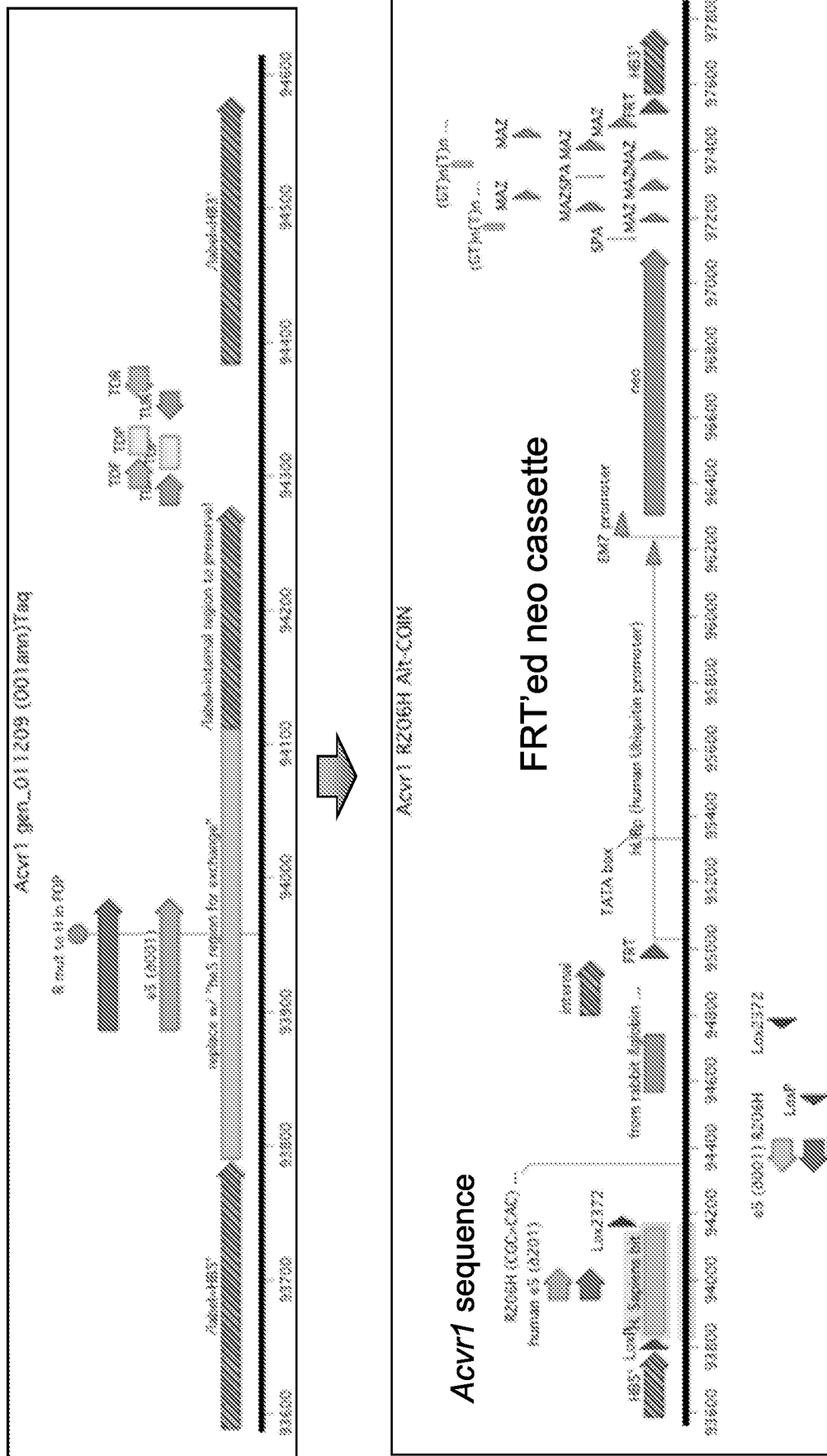
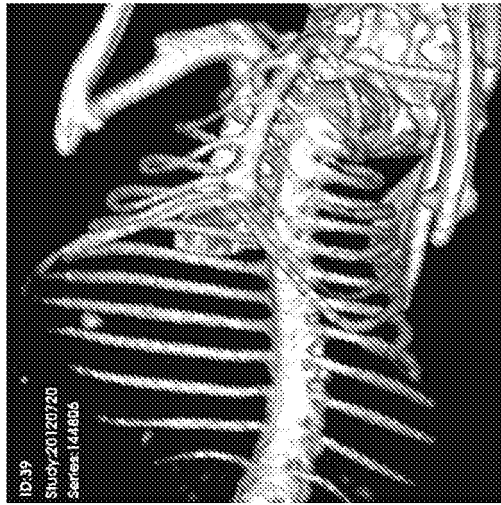
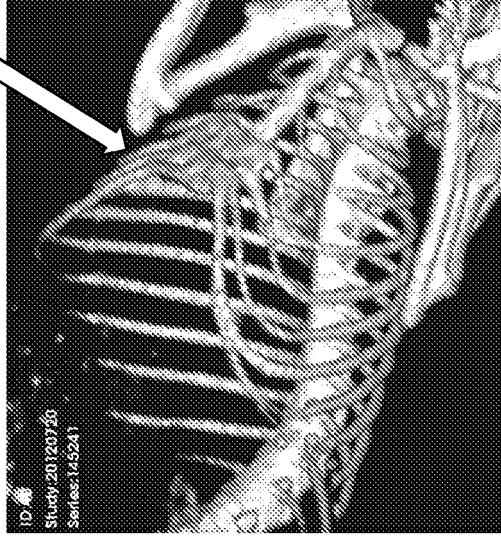


FIG. 2

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.

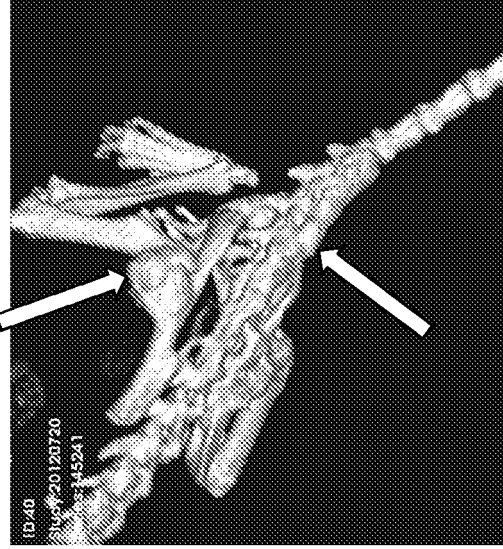
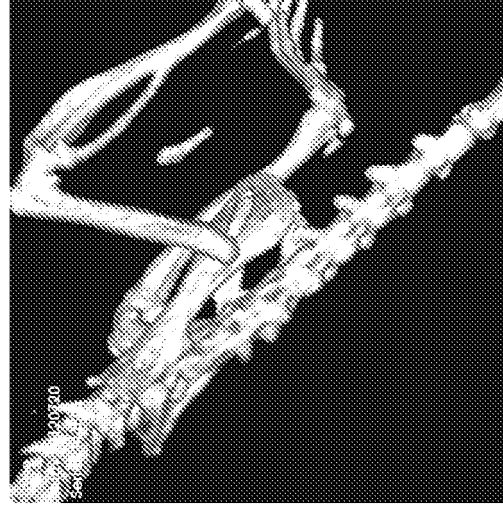
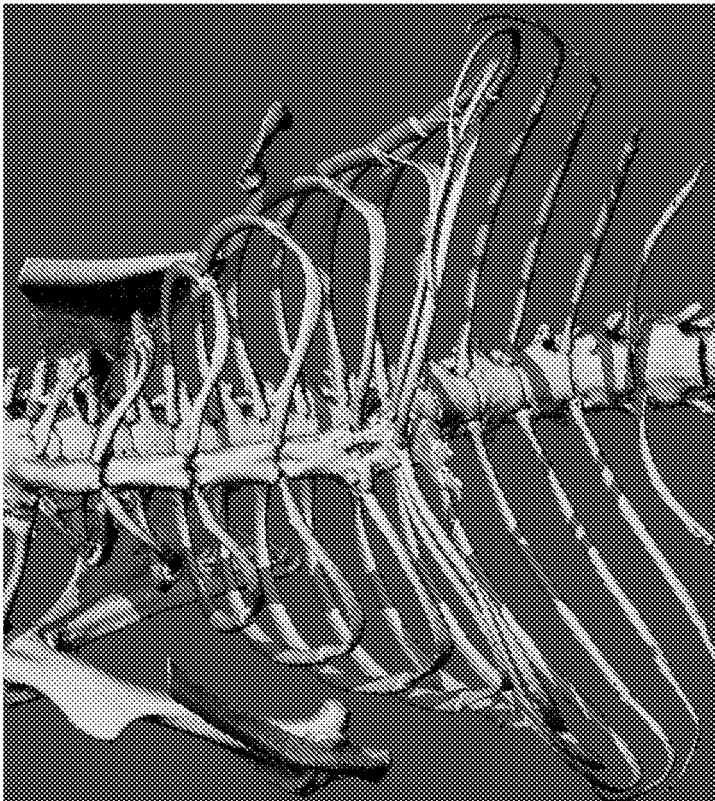


FIG. 3

No tamoxifen



tamoxifen

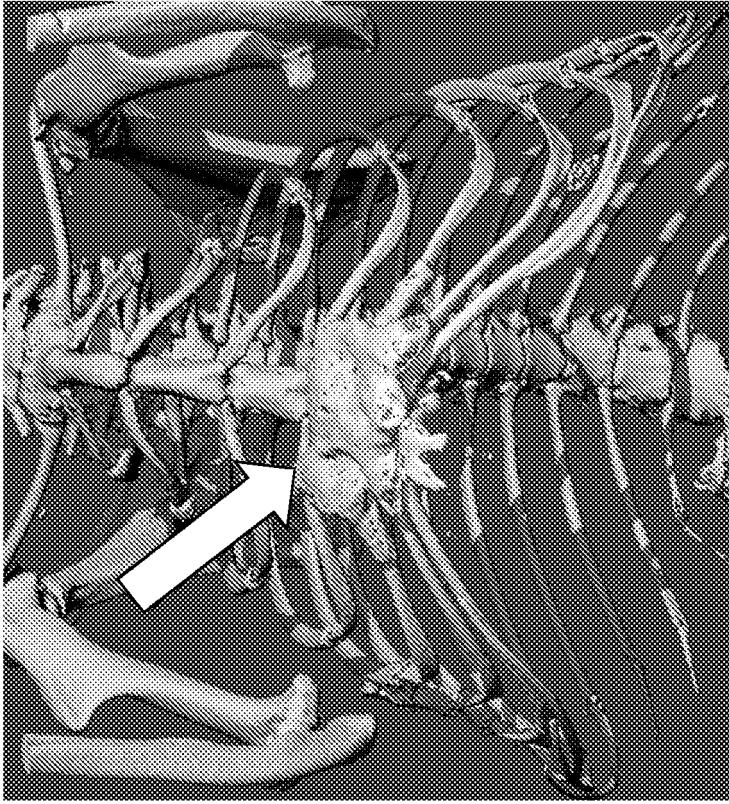


FIG. 4

No tamoxifen



tamoxifen

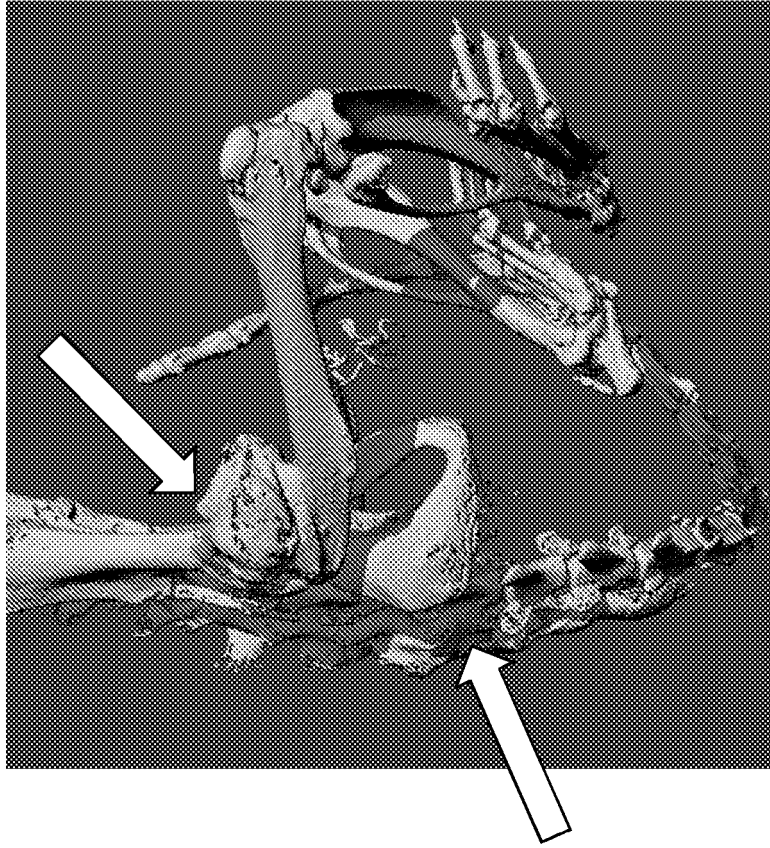
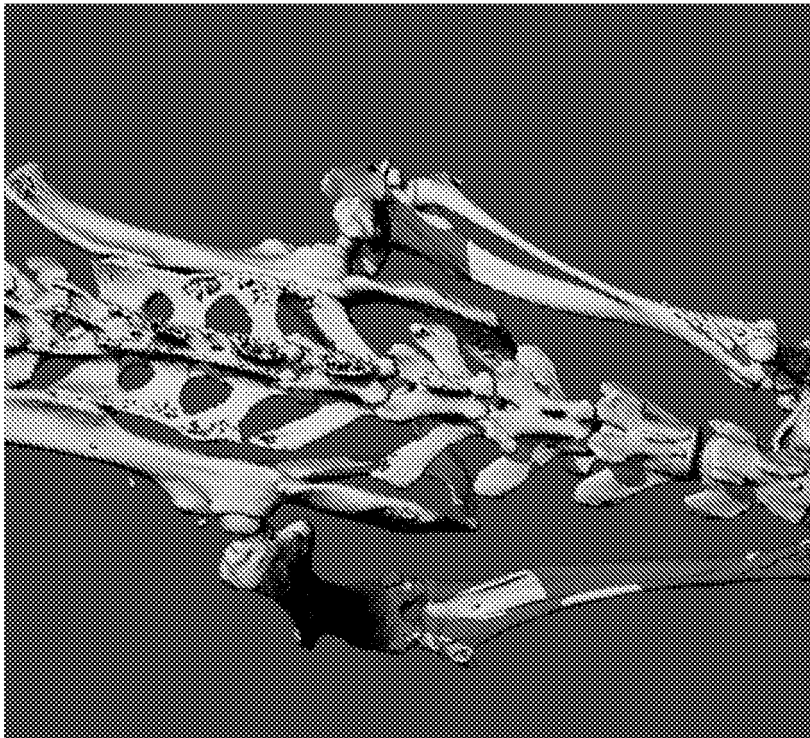


FIG. 5

No tamoxifen



tamoxifen

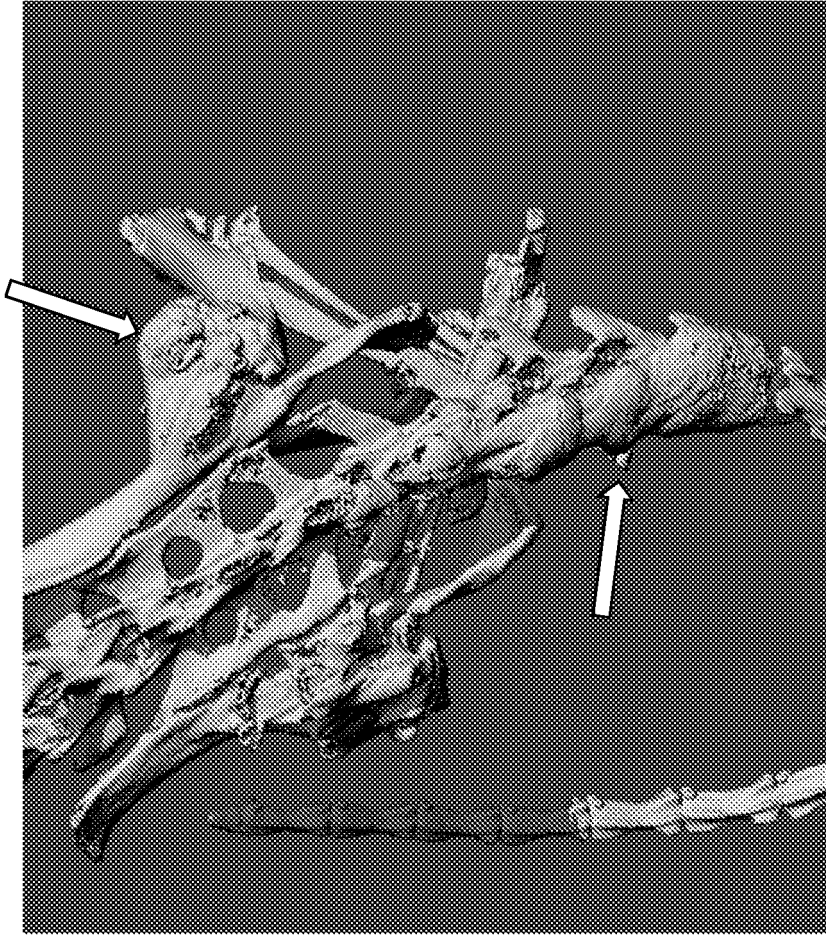
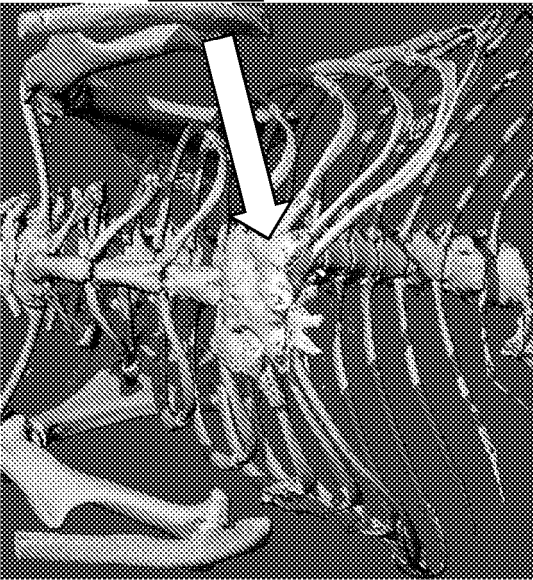


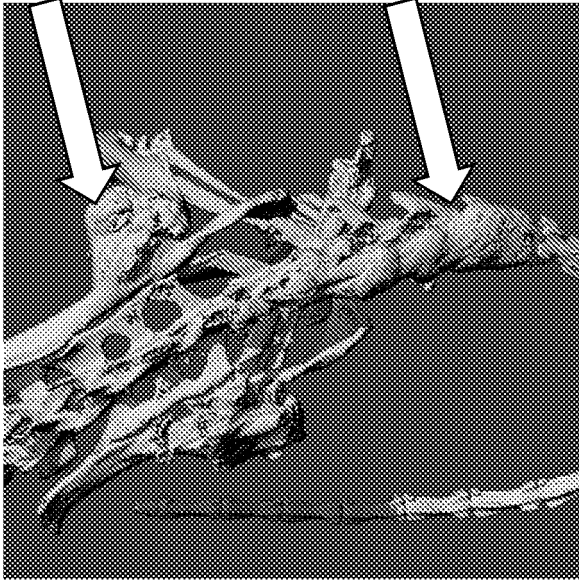
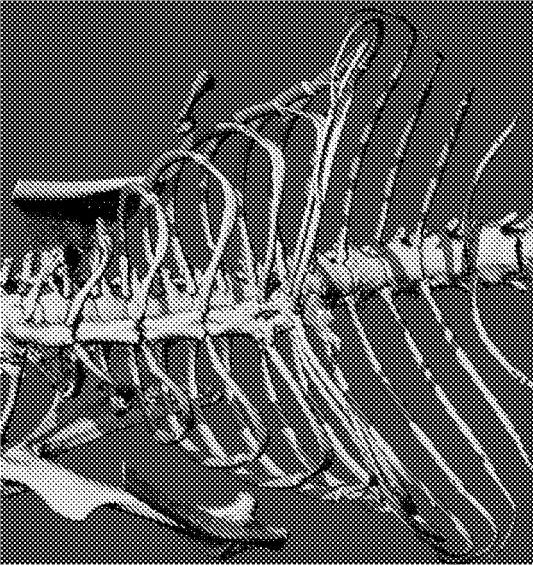
FIG. 6

Tamoxifen #2
ID: 845202



**Ectropic bone
formation: Sternebra**

Control #1
ID: 840095



**Ectropic bone
formation: Hip joint**

**Ectropic bone
formation: Caudal
vertebrae**

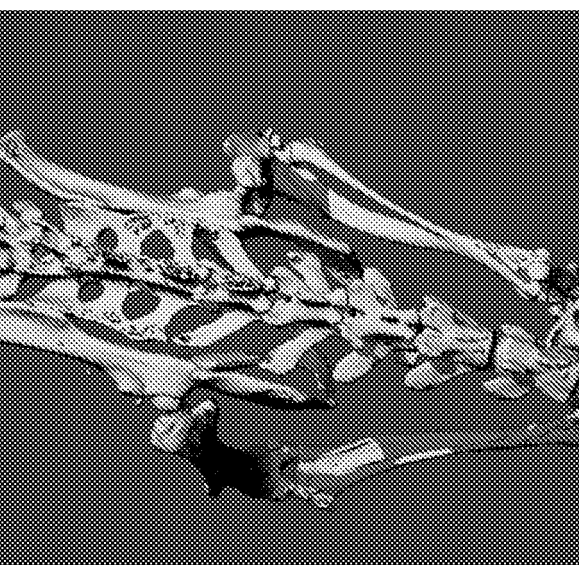


FIG. 7

Tamoxifen #3
ID: 915546

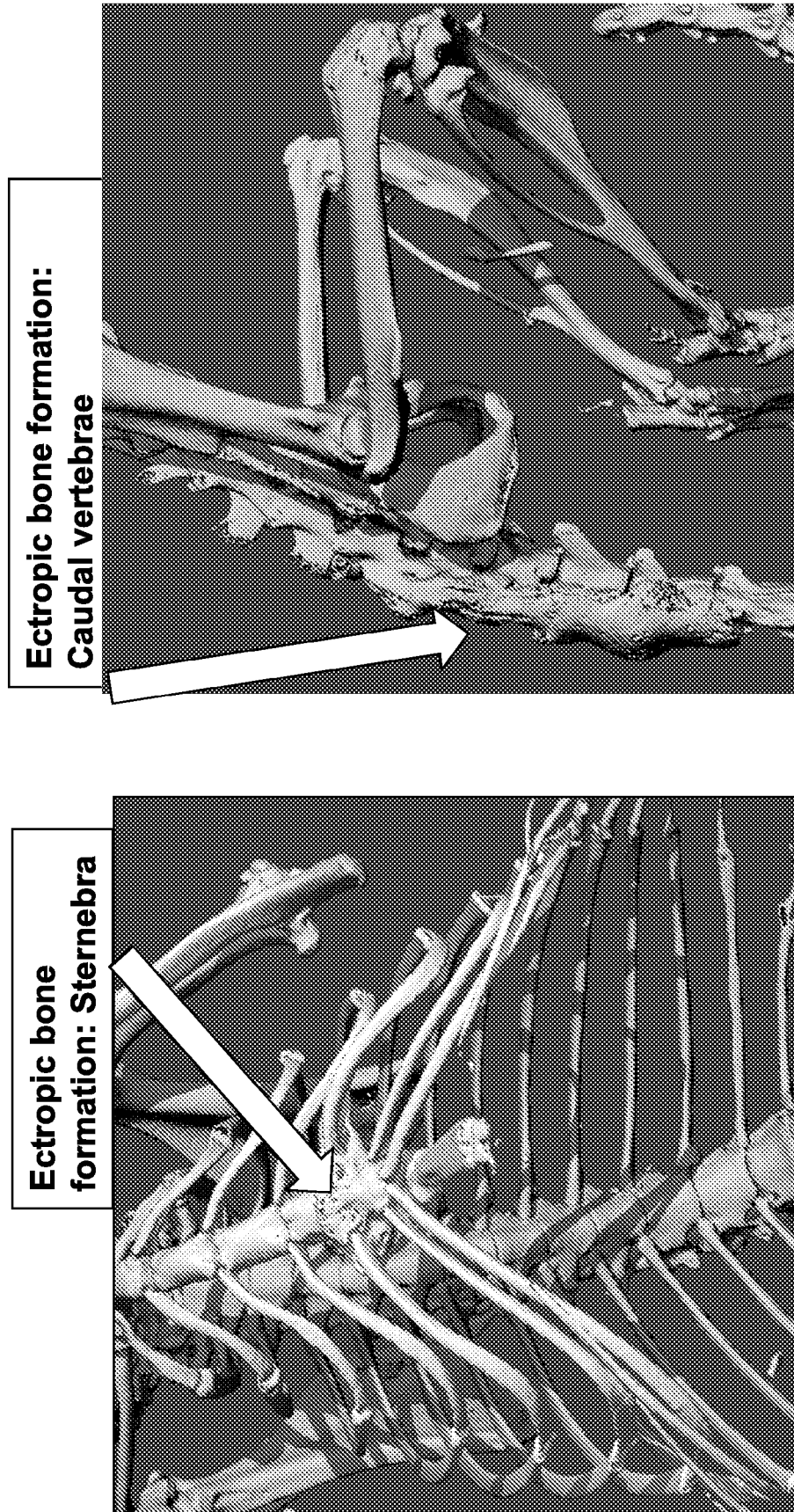


FIG. 8

Tamoxifen #4
ID: 904067

No apparent ectopic bone formation

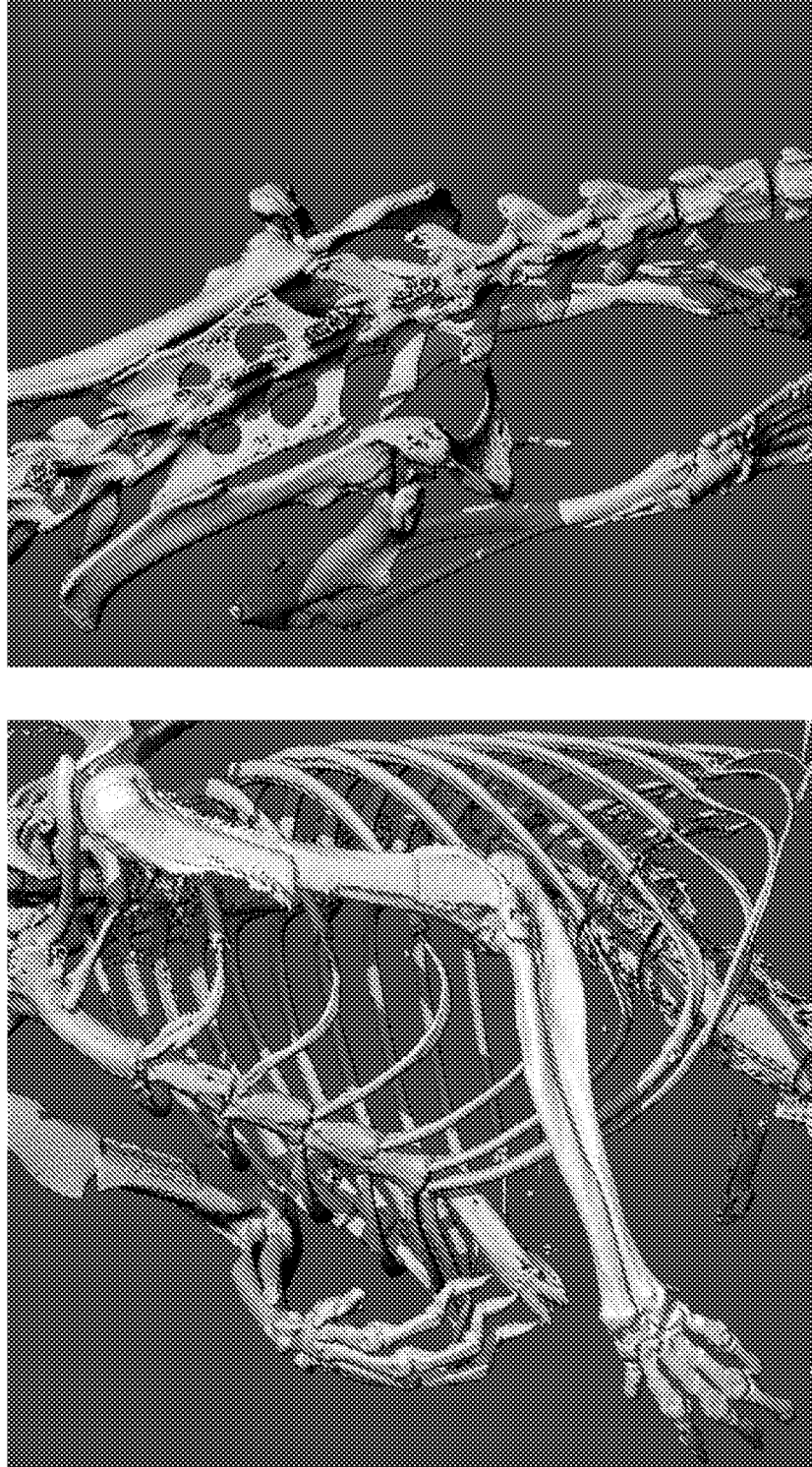


FIG. 9

Tamoxifen #5
ID: 840098

Ectopic bone
formation: Sternebra

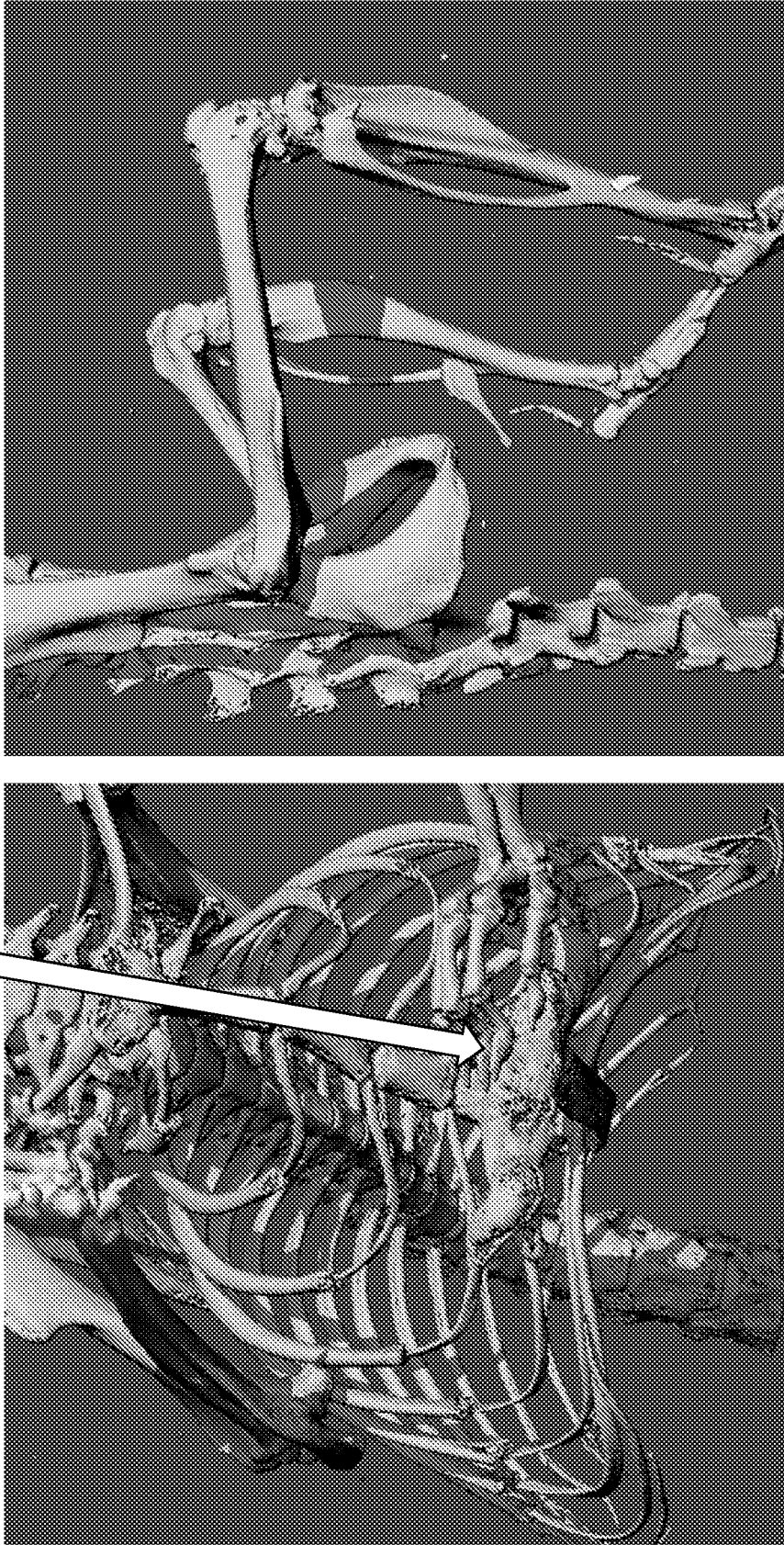


FIG. 10

Tamoxifen #6
ID: 863713

**Ectropic bone
formation: Sternebra**

**Ectropic bone formation:
Knee joint**

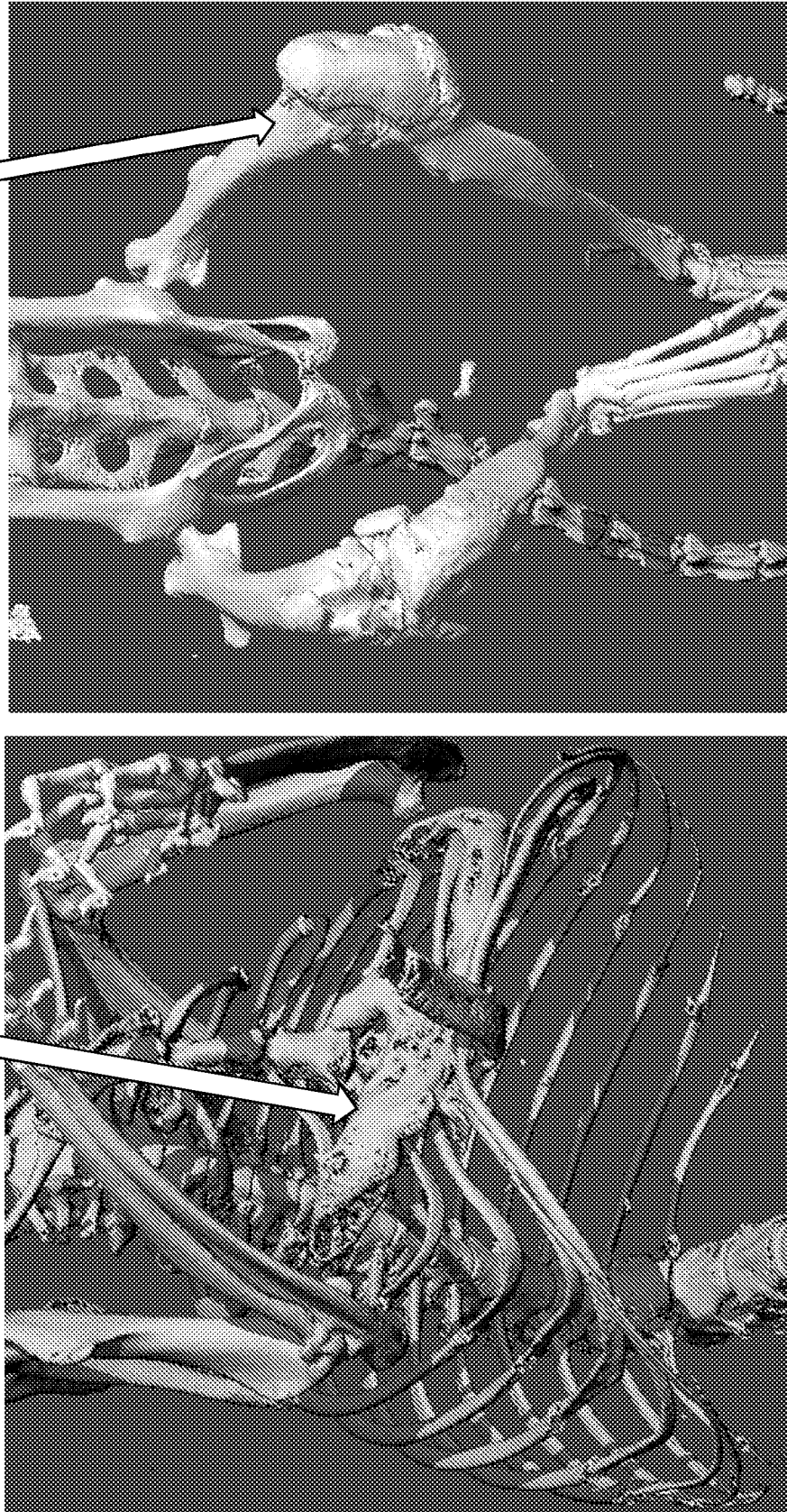


FIG. 11

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 IS TU	S13080836	51	Most Restrictive v2.0	GGCTGACTGA TCTGAAGGAA ATGG	S	175	198	24	66.94
Acvr1 IS TD	S13081203	6	Less Restrictive v2.0	TGAAGGAAAT GGGCTTCTGG ATAG	S	4	27	24	67.16
Reverse Primer									
Acvr1 IS TU	S13080836	51	Most Restrictive v2.0	AGAGGAAGGA GACGCTAAGA ATC	AS	260	238	23	65.4
Acvr1 IS TD	S13080836	6	Less Restrictive v2.0	CATACTCACT CTTCCTGTTA GAGGA	AS	96	72	25	65.71
Probe									
Acvr1 IS TU	S13080836	51	Most Restrictive v2.0	TCTGGATAGT AAGGTCAGTT GCTGCG	FAM-BHQ-1 S	202	227	26	69.57
Acvr1 IS TD	S13080836	6	Less Restrictive v2.0	AAGGTCAGTT GCTGCGTCTT CCC	FAM-BHQ-1 S	29	51	23	69.81

FIG. 12