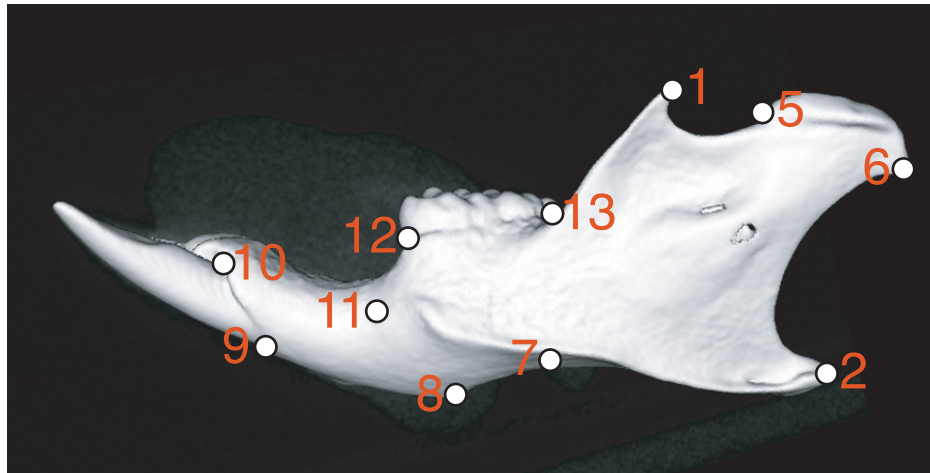


## Lateral View of the Mandible



## Control Mice

## KO Mice

		#1	#2	#3	#4	#5	#6	#7	Mean	std	#1	#2	#3	#4	#5	#6	#7	#8	Mean	std	change (%)	p-value (<)
NFATc2	wt	wt	het	het	het	het	het				ko	ko	ko	ko	ko	ko	ko	ko				
NFATc3	wt	wt	wt	wt	wt	wt	wt				het	wt	het	wt	wt	het	het	wt				
NFATc4	wt	wt	het	het	het	het	het				ko	ko	ko	ko	ko	ko	ko	ko				
From	To																					
1	2	6.72	6.53	6.54	6.36	6.65	6.41	6.4	6.52	0.14	6.31	6.33	5.81	6.11	6.06	6.02	5.92	5.93	6.06	0.18	-6.97	0.001
1	6	4.17	4.19	4.42	4.2	4.27	4.32	3.96	4.22	0.14	4.39	4.4	3.88	4.58	4.49	4.15	4.04	3.95	4.24	0.26	0.39	ns
1	7	5.68	5.77	5.66	5.8	5.77	5.83	5.86	5.77	0.07	5.25	5.11	4.95	5.16	5.35	5.13	5.28	5.52	5.22	0.17	-9.51	0.001
1	8	7.54	7.66	7.47	7.47	7.68	7.83	7.7	7.62	0.13	6.95	6.93	6.81	6.93	6.93	7.06	7.18	7.33	7.02	0.17	-7.96	0.001
1	9	9.96	9.97	9.52	9.54	9.74	9.94	9.77	9.78	0.19	8.47	8.65	8.42	8.68	8.47	9.21	9.09	9.38	8.80	0.38	-10.03	0.001
1	10	9.63	9.8	9.83	9.51	9.57	9.83	9.72	9.70	0.13	8.35	8.5	8.39	8.7	8.31	8.77	8.99	9.07	8.64	0.29	-10.97	0.001
1	11	7.33	7.67	7.4	7.14	7.46	7.57	7.42	7.43	0.17	6.08	6.51	6.41	6.61	6.49	6.09	6.86	7.01	6.51	0.33	-12.38	0.001
1	12	5.9	6	5.88	5.85	5.95	6.25	6.22	6.01	0.16	5.4	5.48	5.23	5.53	5.36	5.68	5.6	5.66	5.49	0.16	-8.57	0.001
1	13	3.79	3.83	3.79	3.78	3.89	4.01	3.92	3.86	0.09	3.29	3.46	3.3	3.3	3.12	3.64	3.78	3.9	3.47	0.27	-9.97	0.01
1R	1L	9.66	9.54	9.69	9.72	9.66	9.88	9.86	9.72	0.12	9.32	9.44	9.27	9.11	8.89	9.58	9.29	10.17	9.38	0.38	-3.41	0.05
2	6	3.92	3.89	3.98	4.06	4.04	4.18	3.98	4.01	0.10	4.03	3.99	3.41	3.89	3.8	3.77	4.17	3.97	3.88	0.23	-3.20	ns
2	7	3.96	3.95	3.78	3.57	4.27	3.73	3.5	3.82	0.26	4.12	4.1	3.7	4	3.5	3.93	3.88	3.99	3.90	0.21	2.08	ns
2	8	7.28	7.29	7.45	7.19	7.43	7.31	7.33	7.33	0.09	6.8	6.95	6.81	7.01	6.78	6.89	6.74	6.69	6.83	0.11	-6.72	0.001
2	9	11.52	11.35	11.29	11	11.36	11.11	11.1	11.25	0.18	10.63	10.31	10.07	10.39	10.15	10.69	10.39	10.25	10.36	0.22	-7.89	0.001
2	10	12.29	12.46	12.18	12.1	12.57	12.27	12.39	12.32	0.16	11.18	11.26	11.13	11.42	11.02	10.05	11.25	11.12	11.05	0.42	-10.30	0.001
2	11	9.15	9.31	9.33	8.96	9.46	8.97	9.16	9.19	0.19	8.24	8.65	8.28	8.59	8.37	7.74	8.3	8.27	8.31	0.28	-9.64	0.001
2	12	8.94	8.88	8.91	8.69	8.97	8.69	8.79	8.84	0.12	8.11	8.25	7.82	8.33	8.17	7.96	7.8	7.72	8.02	0.23	-9.26	0.001
2	13	6.69	6.59	6.67	6.37	6.81	6.48	6.53	6.59	0.15	6.18	6.13	5.64	5.98	5.58	5.33	5.08	5.26	5.65	0.41	-14.32	0.001
2R	2L	9.23	9.22	9.08	9.09	9.09	9.52	8.91	9.18	0.19	9.11	8.78	8.65	8.78	8.59	9.68	9.47	9.78	9.11	0.48	-0.76	ns
6	7	5.83	5.88	5.72	5.82	6.19	6.28	5.82	5.93	0.21	6.4	5.79	5.38	6.15	5.88	5.93	6.04	6.01	5.95	0.30	0.22	ns
6	8	9	9.01	9.21	9	9.21	9.41	9.12	9.14	0.15	8.35	8.83	8.35	8.81	8.73	8.79	9.01	8.96	8.73	0.25	-4.47	0.01
6	9	12.41	12.47	12.45	12.24	12.34	12.51	12.21	12.38	0.12	11.8	11.7	10.91	11.65	11.56	12.1	11.95	11.92	11.70	0.36	-5.47	0.001
6	10	12.65	12.92	13.05	12.55	12.7	13.07	12.79	12.82	0.20	11.98	12	11.45	12.11	12.06	11.98	12.19	12.17	11.99	0.23	-6.44	0.001
6	11	9.9	10.13	10.09	9.96	10.07	10.3	9.9	10.05	0.14	9.3	9.67	8.97	9.62	9.56	9.11	9.59	9.64	9.43	0.27	-6.14	0.001
6	12	8.93	8.99	9.18	8.96	8.99	9.31	8.99	9.05	0.14	8.79	8.7	8.09	8.86	8.73	8.72	8.58	8.47	8.62	0.24	-4.78	0.001
6	13	5.99	6.38	6.55	6.44	6.45	6.68	6.35	6.41	0.21	6.22	6.17	5.61	6.09	5.88	5.88	5.89	5.61	5.92	0.23	-7.60	0.001
8	9	4.28	4.15	4.04	4.12	4.01	3.95	3.87	4.06	0.14	3.33	3.44	3.33	3.5	3.46	3.6	3.53	3.71	3.49	0.13	-14.10	0.001
8	10	6	5.84	5.68	5.53	5.49	5.39	5.48	5.63	0.22	4.67	4.84	4.81	4.97	4.9	4.3	4.81	4.74	4.76	0.21	-15.54	0.001
8	11	2.69	2.68	2.75	2.62	2.68	2.57	2.68	2.67	0.06	2.39	2.55	2.29	2.49	2.45	2.44	2.23	2.47	2.41	0.11	-9.50	0.001
8	12	3.74	3.74	3.54	3.49	3.68	3.57	3.46	3.60	0.12	3.02	3.14	2.93	3.18	3.16	2.87	2.97	3.05	3.04	0.11	-15.62	0.001
8	13	4.05	4.13	3.98	3.97	3.96	4.07	4.03	4.03	0.06	3.81	3.53	3.63	3.82	3.67	4.17	3.74	3.83	3.78	0.19	-6.26	0.01
9	10	2.35	2.32	2.08	2.14	2.19	1.98	2.18	2.18	0.13	1.85	1.79	1.79	1.86	1.79	1.51	1.8	1.89	1.79	0.12	-18.01	0.001
9	11	2.53	2.34	2.3	2.48	2.27	2.39	2.31	2.37	0.10	2.01	1.9	1.96	2.15	2.05	2.55	2.51	2.49	2.20	0.27	-7.24	ns
9	12	3.83	4.01	3.69	3.76	3.85	3.66	3.58	3.77	0.14	3.11	3.09	3.15	3.22	3.24	3.54	3.59	3.58	3.32	0.22	-12.04	0.01
10	11	3.25	3.54	3.28	3.24	3.19	3.15	3.34	3.28	0.13	2.68	2.64	2.82	2.79	2.71	2.73	2.92	2.86	2.77	0.10	-15.70	0.001
10	12	3.83	4.06	3.9	3.71	3.84	3.7	3.8	3.83	0.12	3.26	3.23	3.37	3.3	3.22	3.38	3.63	3.63	3.38	0.17	-11.91	0.001
11	12	1.75	2.1	1.79	1.7	1.71	1.61	1.65	1.76	0.16	2.26	1.38	1.31	1.36	1.41	1.29	1.31	1.55	1.48	0.32	-15.63	ns
11	13	3.81	4.06	3.83	3.72	3.9	3.77	3.91	3.86	0.11	3.62	3.56	3.51	3.9	3.8	3.97	4.02	4.04	3.80	0.21	-1.42	ns
12	13	2.62	2.63	2.59	2.58	2.58	2.66	2.66	2.62	0.03	2.59	2.64	2.53	2.72	2.94	3.05	3.1	2.93	2.81	0.22	7.46	0.05

**Supplementary Figure 4** Measurement of mandible dimensions. **Top**, Landmarks used for mandible measurements based on those used in Richtsmeier *et al.* **Bottom**, Raw data for the seven control and eight NFATc2/c4 DKO mice measured in this study. Genotypes of the mice are shown at the top of the table. Change (%) and p-value are shown for each measurement and correspond to the colour coded lines in text Figure 1i. Measurement from the right landmark 1 (1R) to the left landmark 1 (1L) and from the right landmark 2 (2R) to the left landmark 2 (2L) indicate that the overall width of the jaw is not statistically different between control and NFATc2/c4 DKO mice.