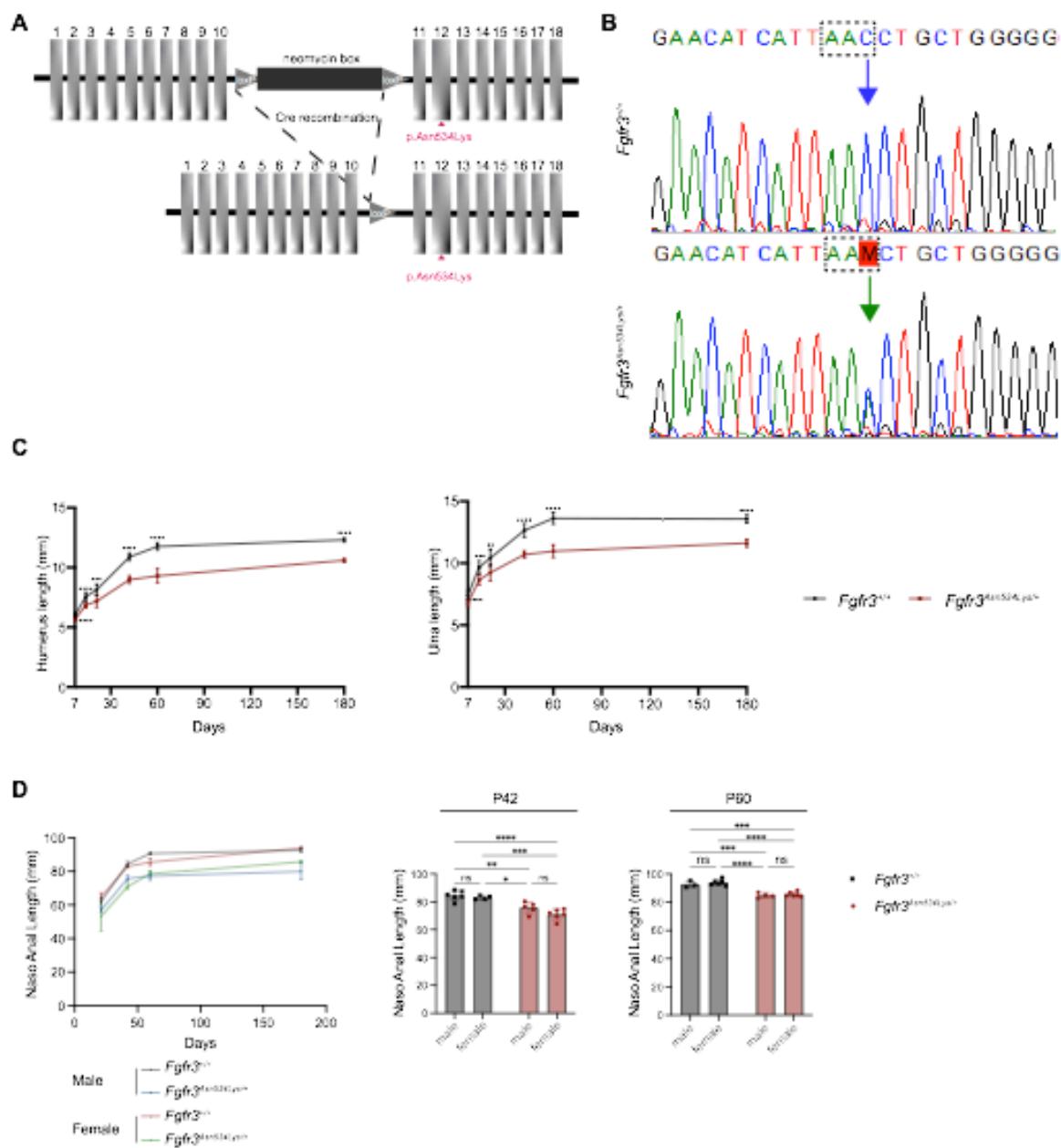


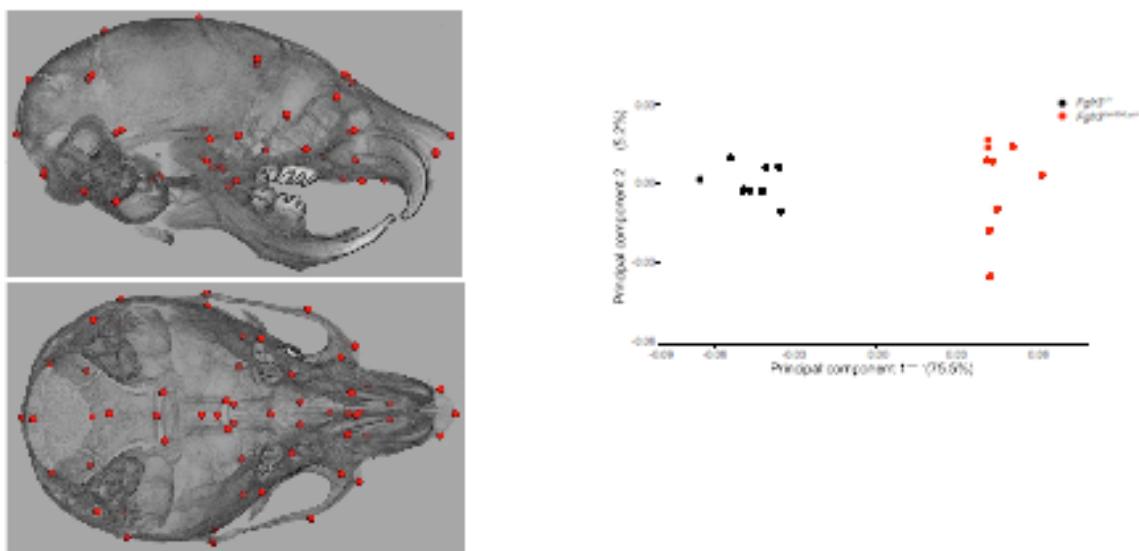
## Supplemental Figure 1



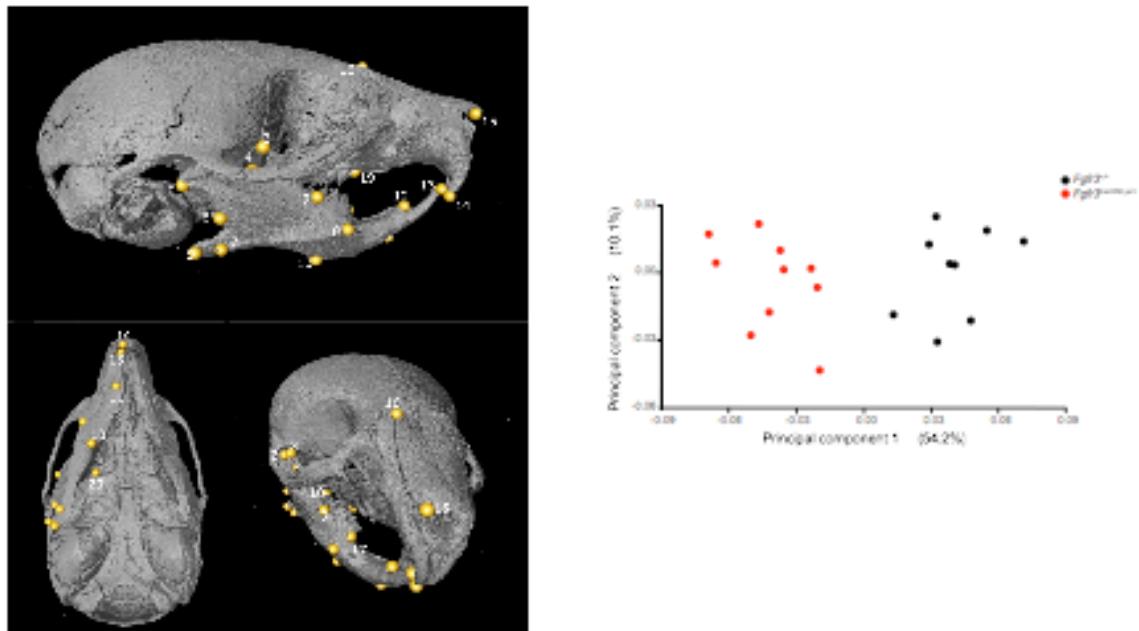
(A) Generation of the dwarf *Fgfr3<sup>Asn534Lys/+</sup>* mouse. The point mutation Asn534Lys is localized in mouse exon 12. *Fgfr3<sup>Asn534Lys/+</sup>* mice were crossed with CMV-Cre mice to remove the NEO cassette gene. (B) The presence of the heterozygous mutation p.Asn534Lys in DNA isolated from tail. (C) Graphical representation of the humerus and ulna length of *Fgfr3<sup>Asn534Lys/+</sup>* and *Fgfr3<sup>+/+</sup>* male and female mice during development (postnatal day 1, 7, 14, 21, 28, 42, 60 and 180) Student's t-test. (D) Graphical representation of the naso-anal length of *Fgfr3<sup>Asn534Lys/+</sup>* and *Fgfr3<sup>+/+</sup>* male and female mice during development (postnatal day 21, 42, 60 and 180) (ns= not significant, \*  $p<0.05$ , \*\* $p<0.01$ , \*\*\* $p<0.001$ , \*\*\*\* $p<0.0001$  2-way ANOVA and Bonferroni's post-hoc test).

## Supplemental Figure 2

**A**

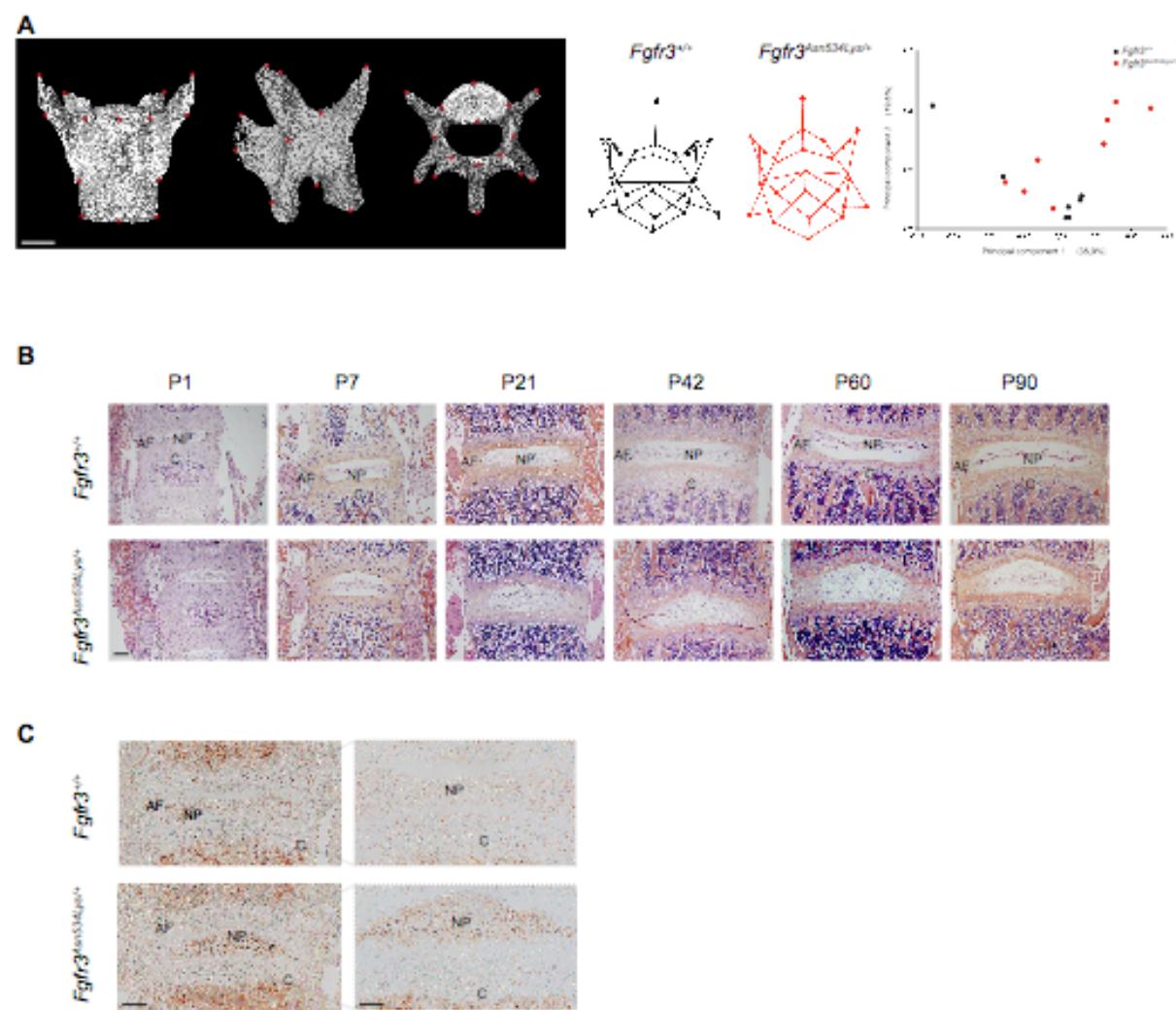


**B**



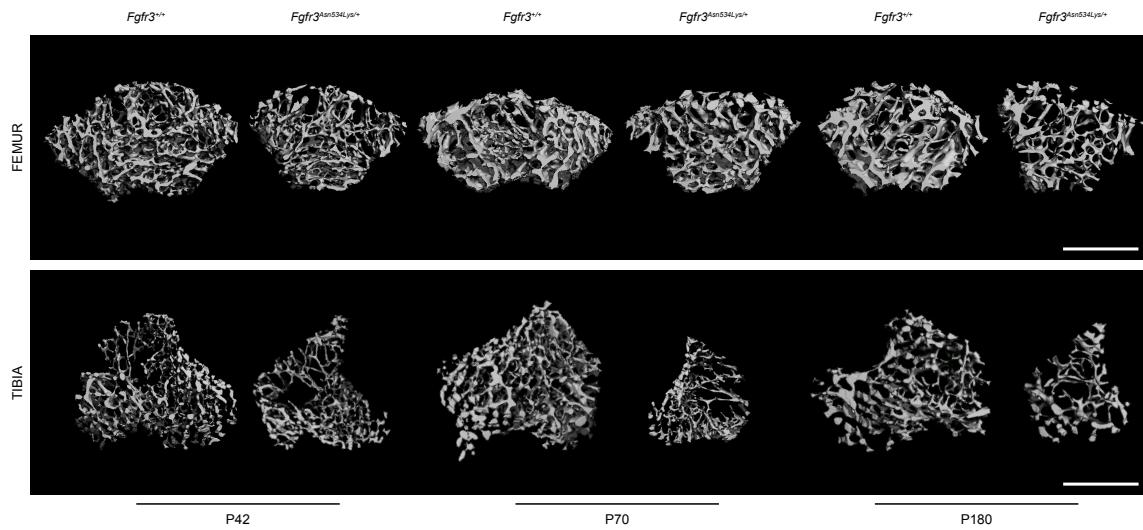
**(A)** Definitions and positioning of the 57 anatomical landmarks per specimen digitized on three-dimensional models on mouse skull. Comparison of skull shape between mutants and controls: plots of Principal Components (PC) scores for PC1 and PC2 with corresponding variances (in %) ( $Fgfr3^{Asn534Lys/+}$  n=9 and  $Fgfr3^{+/+}$  n=9). **(B)** Definitions and positioning of the 40 anatomical landmarks per specimen digitized on three-dimensional models: mandibular anatomical landmarks (n=20 per mandible); maxillary anatomical landmarks (n=10 per side). Comparison of mandibular shape and relationship to the maxilla between mutants and controls: plots of Principal Components (PC) scores for PC1 and PC2 with corresponding variances (in %) ( $Fgfr3^{Asn534Lys/+}$  (n=9) and  $Fgfr3^{+/+}$  (n=9)). Results were statistically significant ( $p < 0.01$ ) Student's t-test.

### Supplemental Figure 3



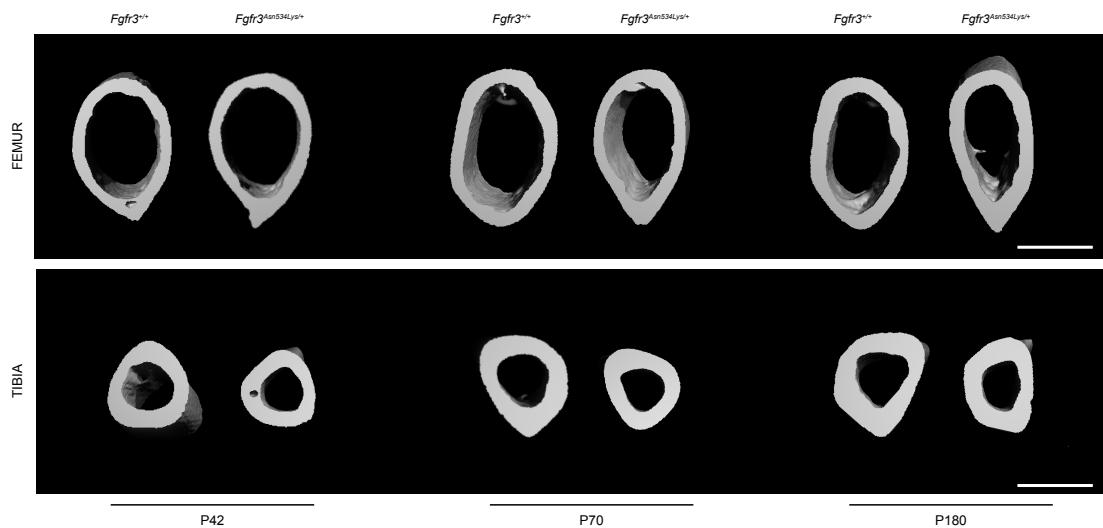
**(A)** Definitions and positioning of the 32 anatomical landmarks per specimen digitized on three-dimensional models on mouse L5 lumbar vertebrae. Comparison of L5 lumbar vertebrae shape between *Fgfr3<sup>+/+</sup>*: P70 n=7, *Fgfr3<sup>Asn534Lys/+</sup>*: P70 n=8 male mice plots of Principal Components (PC) scores for PC1 and PC2 with corresponding variances (in %). **(B)** H&E staining of L5 to L6 lumbar vertebrae intervertebral disc form 1 day-of-age to 3 months-of-age (scale bar=200  $\mu$ m). **(C)** Representative images of FGFR3 immunostaining (left panel: scale bar=200 $\mu$ m and right panel scale bar=100 $\mu$ m).

## Supplemental Figure 4



Representative  $\mu$ CT images of femur and tibia trabecular bone from  $Fgfr3^{+/+}$  and  $Fgfr3^{Asn534Lys/+}$  mice at P42, P70 and P180 (scale bars=1 mm).

## Supplemental Figure 5



Representative  $\mu$ CT images of femur and tibia cortical bone from  $Fgfr3^{+/+}$  and  $Fgfr3^{Asn534Lys/+}$  mice at P42, P70 and P180 (scale bars=1 mm).

**Supplemental Table 1**

Age	P1		P7		P14		P21		P28		P42		P60		P180	
Genotype	+/-	Asn534Lys/+	+/-	Asn534Lys/+	+/-	Asn534Lys/+	+/-	Asn534Lys/+								
n	10	13	7	11	7	10	7	10	9	10	12	14	18	11	12	
Weight (g)																
Mean	1.36	1.38	3.41	3.65	7.01	6.77	8.69	7.02	15.83	13.12	21.24	16.44	25.02	18.06	34.60	25.39
SD ±	0.14	0.17	0.45	0.37	0.95	0.88	2.18	1.93	1.49	1.54	3.02	2.98	2.81	4.30	4.65	1.58
Difference (%)		1.99		6.66		-3.58		-14.63		-18.70		-25.46		-35.56		-30.68
p value	0.7534		0.3623		0.4173		0.0926		0.0003		0.0036		<0.0001		<0.0001	
Naso-anal length (mm)																
Mean	31.22	30.54	41.69	39.76	56.91	53.37	62.75	55.76	73	68.11	83.86	73.29	88.17	76.55	92.45	84.19
SD ±	1.19	1.05	2.88	4.78	2.56	2.26	6.09	3.49	2.79	2.15	2.82	4.33	3.44	6.08	2.85	3.29
Difference (%)		-2.22		-4.75		-6.43		-11.80		-6.93		-13.46		-14.12		-9.36
p value	0.1862		0.451		0.0185		0.0056		0.0005		<0.0001		<0.0001		<0.0001	

Age	P1		P7		P14		P21		P28		P42		P60		P180	
Genotype	+/-	Asn534Lys/+	+/-	Asn534Lys/+	+/-	Asn534Lys/+	+/-	Asn534Lys/+	+/-	Asn534Lys/+	+/-	Asn534Lys/+	+/-	Asn534Lys/+	+/-	Asn534Lys/+
n	0	0	7	12	8	12	9	11	0	0	10	12	6	8	11	11
Femur length (mm)																
Mean			6.10	5.58	8.36	7.38	9.37	8.02			12.99	10.58	14.90	11.20	15.52	12.58
SD ±			0.20	0.07	0.34	0.27	0.67	0.63			0.39	0.37	0.83	0.49	0.32	0.33
Difference (%)			-8.94		-12.41		-15.55				-20.47		-28.33		-20.93	
p value			0.000007		0.000006		0.000224				<0.000001		0.000002		<0.000001	
Tibia length (mm)																
Mean			7.43	6.85	11.22	9.56	12.37	10.37			16.03	12.54	17.53	13.14	18.06	14.02
SD ±			0.49	0.34	0.40	0.39	0.86	0.52			0.38	0.47	0.64	0.41	0.32	0.25
Difference (%)			-8.05		-15.90		-17.63				-24.46		-28.65		-25.20	
p value			0.0131		<0.0001		<0.0001				<0.0001		<0.0001		<0.0001	
Humerus length (mm)																
Mean			6.03	5.66	7.55	6.86	8.14	7.18			10.89	8.98	11.76	9.29	12.31	10.59
SD ±			0.16	0.20	0.26	0.36	0.53	0.45			0.32	0.31	0.61	0.30	0.15	0.17
Difference (%)			-6.20		-9.57		-12.53				-19.18		-23.41		-14.94	
p value			0.000063		0.00006		0.000414				<0.000001		<0.000001		<0.000001	
Ulna length (mm)																
Mean			7.41	6.78	9.67	8.65	10.42	9.24			12.65	10.69	13.61	10.97	13.57	11.62
SD ±			0.28	0.39	0.43	0.52	0.66	0.71			0.30	0.56	0.52	0.47	0.31	0.33
Difference (%)			-8.80		-11.17		-12.03				-16.79		-21.48		-15.50	
p value			0.000137		0.000133		0.001182				<0.000001		<0.000001		<0.000001	

Complete table of both male and female mice from P1 to P180. Naso-anal length, body weight, Femur length, Tibia length, Humerus length, Ulna length. Student's t-test, values presented as mean ± standard deviation.

**Supplemental Table 2**

Age	P14	
Genotype	+/ <sup>+</sup>	Asn534Lys/+
n	9	8
<b>Skull length (mm)</b>		
mean	17.88	16.3
SD ±	0.6756	0.4993
difference (%)	<u>8.84</u>	
p value	<u>&lt;0.0001</u>	
<b>Skull width (mm)</b>		
mean	8.862	9.21
SD ±	0.1869	0.2692
difference (%)	<u>-3.93</u>	
p value	<u>0.007</u>	
<b>Centroid size</b>		
mean	41.98	39.74
SD ±	0.9691	0.69
difference (%)	<u>5.34</u>	
p value	<u>&lt;0.0001</u>	
<b>Skull base length (mm)</b>		
mean	7.596	6.008
SD ±	0.2319	0.129
difference (%)	<u>20.91</u>	
p value	<u>0.02</u>	
<b>Foramen magnum area (mm<sup>2</sup>)</b>		
mean	13.07	10.59
SD ±	0.6024	0.7466
difference (%)	<u>18.97</u>	
p value	<u>&lt;0.0001</u>	

Skull analyses on P14 mice, Student's t-test.

**Supplemental Table 3**

Analysis	Bone	Genotype	P42			P70			P180		
			Bone %	Min size (μm)	Max size (μm)	Bone %	Min size (μm)	Max size (μm)	Bone %	Min size (μm)	Max size (μm)
Trabecular	Lumbar Vertebra 5	+/+									
		Asn534Lys/+				100%*	3260	3460			
	Femur	+/+	7.0%	955	1040	6.0%	935	955	6.0%	905	975
		Asn534Lys/+		765	855		685	795		765	840
	Tibia	+/+	6.0%	945	1040	6.0%	1070	1090	5.5%	975	1040
		Asn534Lys/+		700	825		780	845		740	820
	Femur	+/+	9.5%	1290	1410	8.5%	1320	1350	8.0%	1210	1300
		Asn534Lys/+		980	1160		970	1130		1030	1120
Cortical	Tibia	+/+	9.5%	1500	1640	8.5%	1510	1540	8.0%	1420	1510
		Asn534Lys/+		1110	1310		1100	1200		1080	1190

\* For Lumbar Vertebrae the full Vertebral Body (in between the two cartilaginous end plates) was selected as ROI

Selection of region of interests (ROIs) for μCT analyses of lumbar vertebrae, femurs and tibiae. ROIs expressed as % of total bone length, minimum and maximum size per group.

**Supplemental Table 4**

		P70				
		+/+ n=11; Asn534Lys/+ n=10				
		Genotype	Mean	SD ±	Difference (%)	p value
Trabecular	TV (mm <sup>3</sup> )	+/+	2.893	0.1775	-26.24	<0.0001
		Asn534Lys/+	2.134	0.4106		
	BV/TV	+/+	0.3508	0.02244	-17.65	<0.0001
		Asn534Lys/+	0.2889	0.03187		
	Tb.N (mm <sup>-1</sup> )	+/+	6.527	0.175	-0.54	0.7922
		Asn534Lys/+	6.492	0.4171		
	Tb.Th (mm)	+/+	0.06207	0.003405	-14.63	<0.0001
		Asn534Lys/+	0.05299	0.0031		
Vertebral body size (mm)	Tb.Sp (mm)	+/+	0.1576	0.005307	-0.25	0.8933
		Asn534Lys/+	0.1572	0.01042		
BMD (mgHAcm <sup>-3</sup> )		+/+	646.1	16.84	-6.53	<0.0001
		Asn534Lys/+	603.9	12.75		
Vertebral body size (mm)		+/+	3.338	0.05025	-11.89	<0.0001
		Asn534Lys/+	2.941	0.1842		

Lumbar vertebrae 5 measurements obtained with µCT are presented classified by genotype and age. Values are expressed as mean ± standard deviation. The difference among *Fgfr3*<sup>+/+</sup> and *Fgfr3*<sup>Asn534Lys/+</sup> mice is also presented in percentage and the relative p-value is also reported.

**Supplemental Table 5**

Trabecular		P42				P70				P180				
		+/+ n=9; Asn534Lys/+ n=8				+/+ n=12; Asn534Lys/+ n=10				+/+ n=9; Asn534Lys/+ n=10				
		Genotype	Mean	SD ±	Difference (%)	p value	Mean	SD ±	Difference (%)	p value	Mean	SD ±	Difference (%)	p value
Trabecular	TV (mm <sup>3</sup> )	+/+	2.196	0.1748	-20.67	<0.0001	2.338	0.1166	-24.85	<0.0001	2.441	0.1993	-28.10	<0.0001
		Asn534Lys/+	1.742	0.3111			1.757	0.2102			1.755	0.1118		
Trabecular	BV/TV	+/+	0.197	0.03725	-29.70	0.0038	0.231	0.02938	-40.48	<0.0001	0.1916	0.03649	-37.37	0.0002
		Asn534Lys/+	0.1385	0.02993			0.1375	0.04843			0.12	0.02594		
Trabecular	Tb.N (mm <sup>-1</sup> )	+/+	5.713	0.3253	-14.32	0.0007	5.843	0.2331	-16.70	<0.0001	4.418	0.3919	-9.41	0.118
		Asn534Lys/+	4.895	0.4552			4.867	0.7461			4.002	0.2078		
Trabecular	Tb.Th (mm)	+/+	0.0462	0.005121	-6.52	0.4208	0.05291	0.004729	-16.95	<0.0001	0.05718	0.00389	-12.89	0.0009
		Asn534Lys/+	0.04319	0.004262			0.04394	0.003564			0.04981	0.002846		
Trabecular	Tb.Sp (mm)	+/+	0.1656	0.01105	18.60	0.0136	0.1544	0.00697	28.30	<0.0001	0.2085	0.02071	12.33	0.0342
		Asn534Lys/+	0.1964	0.02539			0.1981	0.03735			0.2342	0.01347		
Trabecular	BMD (mgHAcm <sup>-3</sup> )	+/+	716.4	23.37	1.10	0.787	785.8	17.55	-3.96	0.0013	837	17.76	-2.51	0.0658
		Asn534Lys/+	724.3	24.79			754.7	19.69			816	12.72		

Femur measurements obtained with µCT are presented classified by genotype and age. Values are expressed as mean ± standard deviation. The difference among *Fgfr3*<sup>+/+</sup> and *Fgfr3*<sup>Asn534Lys/+</sup> mice is also presented in percentage and the relative p-value is also reported.

**Supplemental Table 6**

	Genotype	P42				P70				P180				
		+/+ n=9; Asn534Lys/+ n=8				+/+ n=12; Asn534Lys/+ n=10				+/+ n=9; Asn534Lys/+ n=10				
		Mean	SD ±	Difference (%)	p value	Mean	SD ±	Difference (%)	p-value	Mean	SD ±	Difference (%)	p value	
Trabecular	TV (mm <sup>3</sup> )	+/+	2.301	0.3118	-46.07	<0.0001	2.736	0.202	-46.56	<0.0001	2.176	0.4041	-49.08	<0.0001
		Asn534Lys/+	1.241	0.2278			1.462	0.3008			1.108	0.0652		
	BV/TV	+/+	0.1184	0.02636	-16.27	0.7526	0.1987	0.02861	-38.35	<0.0001	0.1883	0.03787	-24.00	0.0198
		Asn534Lys/+	0.09914	0.01818			0.1225	0.05145			0.1431	0.03077		
	Tb.N (mm <sup>-1</sup> )	+/+	4.641	0.6775	-5.24	>0.9999	5.852	0.217	-18.11	0.0003	4.542	0.4489	-4.80	>0.9999
		Asn534Lys/+	4.398	0.477			4.792	1.035			4.324	0.3388		
	Tb.Th (mm)	+/+	0.0379	0.003189	-3.67	>0.9999	0.04822	0.003218	-15.45	<0.0001	0.05625	0.002492	-7.04	0.0354
		Asn534Lys/+	0.03651	0.004308			0.04077	0.003519			0.05229	0.003301		
	Tb.Sp (mm)	+/+	0.2094	0.03547	7.26	0.9389	0.1504	0.007008	36.30	0.0004	0.2015	0.02273	7.64	0.8387
		Asn534Lys/+	0.2246	0.03404			0.205	0.05082			0.2169	0.02043		
	BMD (mgHAc <sup>-3</sup> )	+/+	694.9	18.81	0.78	0.9333	785.2	15.02	-4.30	0.0012	856.3	11.54	-1.13	0.4941
		Asn534Lys/+	700.3	27.67			751.4	27.19			846.6	23.06		

Tibia measurements obtained with µCT are presented classified by genotype and age. Values are expressed as mean ± standard deviation. The difference among *Fgfr3*<sup>+/+</sup> and *Fgfr3*<sup>Asn534Lys/+</sup> mice is also presented in percentage and the relative p-value is also reported. (2-way ANOVA with Bonferroni's test).

**Supplemental Table 7**

	Genotype	P42				P70				P180				
		+/+ n=9; Asn534Lys/+ n=8				+/+ n=12; Asn534Lys/+ n=10				+/+ n=9; Asn534Lys/+ n=10				
		Mean	SD ±	Difference (%)	p-value	Mean	SD ±	Difference (%)	p-value	Mean	SD ±	Difference (%)	p-value	
Tibia - Fracture	Yield Load (N)	+/+	7.36	1.72	-34.91	0.0049	10.11	1.637	-38.12	<0.0001	13.1	1.885	-17.63	0.0077
		Asn534Lys/+	4.79	1.36			6.256	0.9319			10.79	1.791		
	Maximum Load (N)	+/+	9.96	1.64	-24.07	0.0126	14	1.306	-37.14	<0.0001	19.75	1.427	-25.57	<0.0001
		Asn534Lys/+	7.57	2.32			8.801	1.563			14.7	1.669		
	Fracture Load (N)	+/+	6.65	2.58	-29.78	0.3462	8.88	3.228	-29.13	0.0642	12.67	2.529	1.50	>0.9999
		Asn534Lys/+	4.67	2.19			6.293	1.911			12.86	2.402		
	Stiffness (Nmm <sup>-1</sup> )	+/+	38.75	8.11	-37.01	0.0014	53.95	7.539	-52.99	<0.0001	97.01	9.889	-42.46	<0.0001
		Asn534Lys/+	24.41	8.85			25.36	7.662			55.82	5.003		
	Energy Dissipated at Fracture (%)	+/+	88.85	13.45	-4.16	>0.9999	81.93	19.76	-4.87	>0.9999	86.71	12.38	-42.58	0.0001
		Asn534Lys/+	85.15	19.49			77.94	17			49.79	23.05		
	Plastic Work / Total Work (%)	+/+	88.96	7.20	-0.02	>0.9999	83.31	7.502	-3.34	>0.9999	87.31	6.726	-23.90	<0.0001
		Asn534Lys/+	88.94	7.81			80.53	6.836			66.44	9.939		
L5 - Compression	Yield Load (N)	+/+					18.72	7.493						
		Asn534Lys/+					14.8	3.979						
	Maximum Load (N)	+/+					26.51	5.768						
		Asn534Lys/+					22.07	3.667						
	Stiffness (Nmm-1)	+/+					148.5	41.01						
		Asn534Lys/+					97.99	30.92						

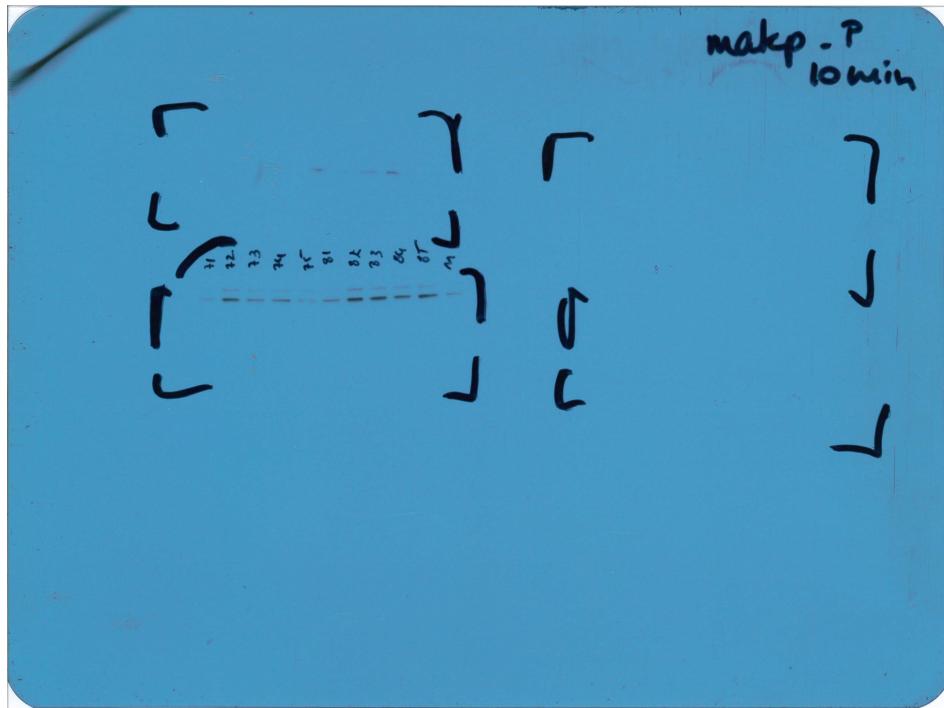
Biomechanical test data. The table presents the data of our studies sorted per genotype and age. They are expressed as mean ± standard deviation. The variations across *Fgfr3*<sup>+/+</sup> and *Fgfr3*<sup>Asn534Lys/+</sup> mice are expressed in percentage and their p-values are listed. Tibia 3-point bending test (2-way ANOVA with Bonferroni's test) and L5 Vertebra compression (Unpaired Student's t test).

## Supplemental Table 8

Gene/Accession number	Gene name (Mus Musculus)	Gene Function	5'- Forward primer – 3' length/Tm/%GC/Self Comp/Self-3'-Comp	5'- Reverse primer – 3' length/Tm/%GC/Self Comp/Self-3'-Comp	Amplicon (length, efficiency, R <sup>2</sup> )
Runx2/ NM_001145920	Runt-related transcription factor 2	Osteoblast differentiation	5'-TGGCCACTTACACAGAGCTATT-3' 23bp/61.65°C/47.83%/6/2	5'-AGGTTTAGAGTCATCAAGCTTCTGTC-3' 26bp/60.80°C/42.31%/6/4	89bp, 100.63%, 0.99
Col1a1/ NM_007742	Type I collagen	Bone formation	5'-CTCAGAGGCCAAGGCAACA-3' 19bp/60.00°C/57.89%/5/0	5'-TGACTGTCTGGCCCCAAGTTC-3' 21bp/60.48°C/52.38%/5/1	88bp, 98.19%, 0.9973
Ocn (Bglap3)/ NM_031368	Osteocalcin	Bone formation	5'-TGGCTGGCTCTGCTCT-3' 18bp/60.99°C/61.11%/4/0	5'-TTATTGCCCTCGCTTG-3' 19bp/57.41°C/52.63%/2/0	91bp, 86.80%, 0.99
Trap (Acp5)/ NM_001102405.1	Tartrate-resistant acid phosphatase (TRAP)	Bone resorption	5'-CGACCATTGTTAGGCCACATACG-3' 22bp/59.72°C/50.00%/4/2	5'-ACACCGTTCTCGTCCTGAAG-3' 20bp/59.69°C/55.00%/3/2	86bp, 94.96%, 0.99
Gapdh/ NM_001289726.2	Glyceraldehyde 3-phosphate dehydrogenase	Cell metabolism (Housekeeping gene)	5'-GGGCTGGCATTCCTCTCA-3' 18bp/60.04°C/61.11%/5/1	5'-GGTCCACCAACCTGTTGCT-3' 19bp/62.13°C/63.16%/1/2	87bp, 99.25%, 0.95
Osx (Sp7)/ NM_130458	Transcription factor Sp7 (Osterix)	Osteoblast differentiation regulator	5'-CGCTTTGTGCCCTTGAAAT-3' 19bp/55.20°C/42.11%/5/3	5'-CCGTCAACGACGTTATGC-3' 18bp/56.68°C/55.56%/7/3	127bp, 114.35%, 0.99
Dkk1/ NM_010051.3	Dickkopf-related protein 1	Bone formation inhibitor	5'-TCCCAGAACGACACTGACTTC-3' 24bp/62.26°C/50.00%/4/2	5'-TCTTGGACAGAAGTCTTGCAC-3' 24bp/62.54°C/50.00%/5/2	122bp, 120.92%, 0.89
Sost/ NM_024449	Sclerostin	Bone formation inhibitor	5'-ATCCCAAGGCCTGGAGAGTA-3' 20bp/59.66°C/55.00%/6/2	5'-ACATCTTGGCGTCATAGGG-3' 20bp/57.67°C/50.00%/6/2	110bp, 102.08%, 0.97

Primer sequences and amplification characteristics of the targeted genes.

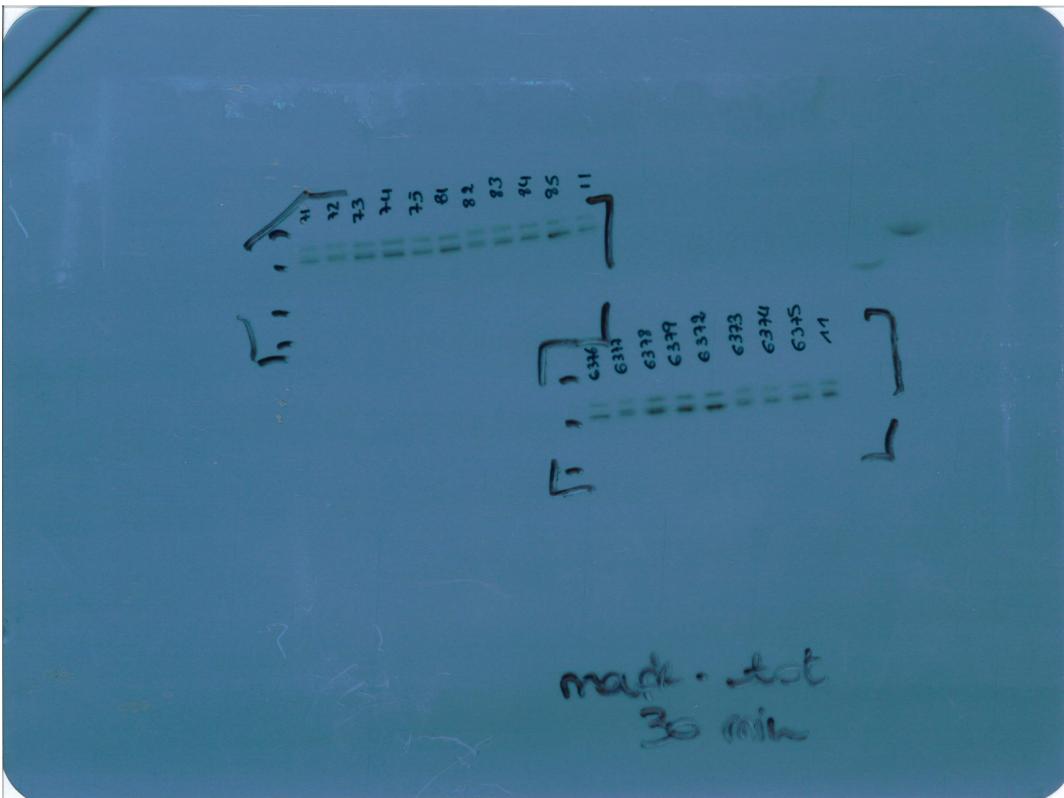
Uncropped gel P-ERK1/2 (10 min exposition)



Samples number :

- 71: *Fgfr3*<sup>+/+</sup> FGF2 0 min
- 72 : *Fgfr3*<sup>+/+</sup> FGF2 5 min
- 73 : *Fgfr3*<sup>+/+</sup> FGF2 30 min
- 74 : *Fgfr3*<sup>+/+</sup> FGF2 60 min
- 75 : *Fgfr3*<sup>+/+</sup> FGF2 120 min
- 81 : *Fgfr3*<sup>+/+Asn534Lys</sup> FGF2 0 min
- 82 : *Fgfr3*<sup>+/+Asn534Lys</sup> FGF2 5 min
- 83 : *Fgfr3*<sup>+/+Asn534Lys</sup> FGF2 30 min
- 84 : *Fgfr3*<sup>+/+Asn534Lys</sup> FGF2 60 min
- 85 : *Fgfr3*<sup>+/+Asn534Lys</sup> FGF2 120 min
- 11: internal control in the gel

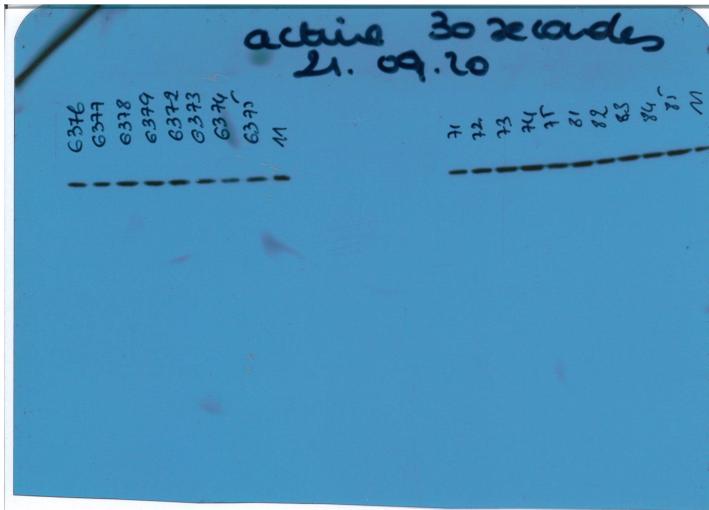
Uncropped gel : ERK1/2 (30 min exposition)



Samples number :

- 71: *Fgfr3<sup>+/+</sup>* FGF2 0 min
- 72 : *Fgfr3<sup>+/+</sup>* FGF2 5 min
- 73 : *Fgfr3<sup>+/+</sup>* FGF2 30 min
- 74 : *Fgfr3<sup>+/+</sup>* FGF2 60 min
- 75 : *Fgfr3<sup>+/+</sup>* FGF2 120 min
- 81 : *Fgfr3<sup>+/+Asn534Lys</sup>* FGF2 0 min
- 82 : *Fgfr3<sup>+/+Asn534Lys</sup>* FGF2 5 min
- 83 : *Fgfr3<sup>+/+Asn534Lys</sup>* FGF2 30 min
- 84 : *Fgfr3<sup>+/+Asn534Lys</sup>* FGF2 60 min
- 85 : *Fgfr3<sup>+/+Asn534Lys</sup>* FGF2 120 min
- 11: internal control in the gel

Uncropped gel : actin (30 sec exposition)



Samples number :

- 71: *Fgfr3<sup>+/+</sup>* FGF2 0 min
- 72 : *Fgfr3<sup>+/+</sup>* FGF2 5 min
- 73 : *Fgfr3<sup>+/+</sup>* FGF2 30 min
- 74 : *Fgfr3<sup>+/+</sup>* FGF2 60 min
- 75 : *Fgfr3<sup>+/+</sup>* FGF2 120 min
- 81 : *Fgfr3<sup>+/+Asn534Lys</sup>* FGF2 0 min
- 82 : *Fgfr3<sup>+/+Asn534Lys</sup>* FGF2 5 min
- 83 : *Fgfr3<sup>+/+Asn534Lys</sup>* FGF2 30 min
- 84 : *Fgfr3<sup>+/+Asn534Lys</sup>* FGF2 60 min
- 85 : *Fgfr3<sup>+/+Asn534Lys</sup>* FGF2 120 min
- 11: internal control in the gel