

**Table S1 Laboratory findings of the patient with Weaver syndrome**

Age (years:months)	4:10	5:5	6:1	7:4
Bone age(years:months)	9:0			11:9
IGF-1	211 (28-155 ng/mL)	163 (60-228 ng/mL)	155 (60-228 ng/mL)	
GH		5.11 (0.06-5.00 ng/mL)		3.09 (0.00-0.80 ng/mL)
LH	0.04 (<0.27U/L)	0.082 (<0.3 U/L)	0.076 U/L	
FSH	0.17 (<3.00 U/L)	0.70 U/L	0.9 U/L	
Prolactin		9.6 (2-29 ng/mL)		
TSH		3.07 (0.35-5.60 µU/mL)	1.25 (0.35-5.70 µU/mL)	2.17 (0.35-5.80 µU/mL)
free T4		0.8 (0.6-1.10 ng/dL)	0.93 (0.6-1.10 ng/dL)	1.3 (0.8-1.5 ng/dL)
17-hydroxyprogesterone	30 (4-115 ng/dL)	14.0 (< 120 ng/dL)	37.0 (< 120 ng/dL)	
DHEAS	25 (Tanner I: 15 - 120 ng/mL)	40 (Tanner I: 15 - 120 ng/mL)	51 (Tanner I: 15 - 120 ng/mL)	
Androstenedione	<5 (5-51ng/dL)	<2.5 (5-51ng/dL)		
Testosterone, total	2.0 (<5 ng/dL)	2.0 (<5 ng/dL)		
Ca			9.7 (8.5-10.5 mg/dL)	
Phosphorus			4.5 (3.1-5.5 mg/dL)	
alkaline phosphatase			242 (40-290 U/L)	
25-hydroxyvitamin D			17.7 (30-100 ng/mL)	
OGTT				
Glucose (0,30,60,90,120,180min):				4.4, 8.8, 9.8, 5.2, 6.8 mmol/L
Insulin (0,30,60,90,120,180min):				3.0, 32.4, 41.6, 11.7, 30.7 mcU/mL
GH (0,30,60,90,120,180min):				3.09, 0.50, 0.21, 0.35, 5.07 ng/mL

Values in parentheses represent normal ranges

**Table S2 Primer and Oligo Sequencing for Genome editing and genotyping of Weaver mice**

<b>Primers/Oligos</b>	<b>Sequence</b>
<b>guide RNA</b> gRNA gE16(57)	CCCCAGCCTGCCACATCAGAC <u>CGG</u> (PAM sequence underlined)
<b>Mutagenic oligo</b> (127mer)	CCCCTCAGGTGGTCTGAGGTTTAACTCTGCTAACTTGCGATCAGTTCTAAT GTGACTGCTTACTCTCTAGCACTTACTGCTGGCACCGTCTGATATGGCAGG CTGGGGCATCTTTATCAAAGATCCT
<b>ddPCR genotyping</b> forward primer: reverse primer: probe (wild-type): probe (mutant):	AGTGATTCCCCTCAGGTGGT AAACTTGGCCTTGTCCAGTG CACCGTCTGATGTGGCAGG CACCGTCTGATATGGCAGG
<b>regular genotyping</b> forward primer: reverse primer:	GCTGCAGTACCATGACCTCAGATGGAG TCTATTCTAAACTTGGCCTTGTCCAGT