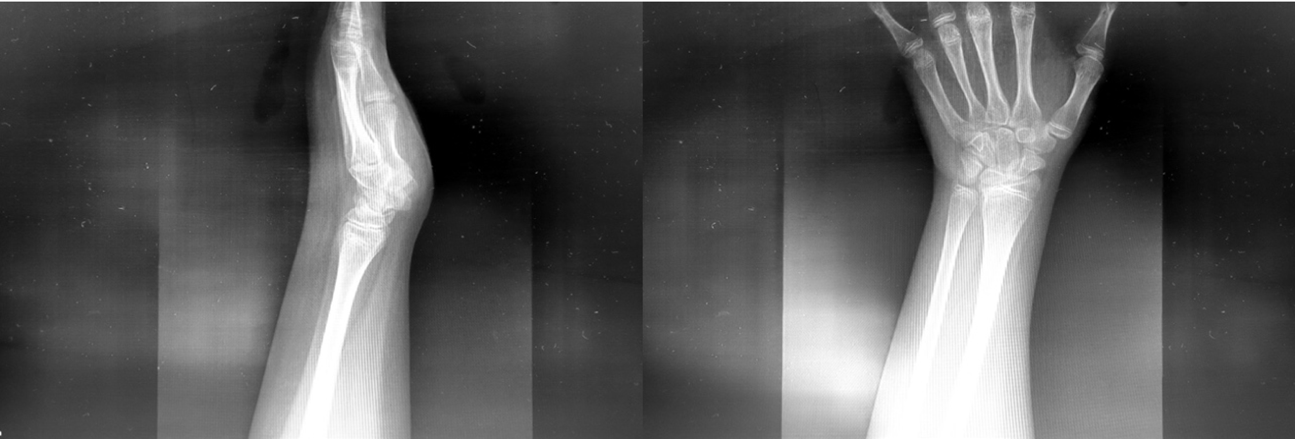


*Figure 1．Coronal MRI views of the proband. Image shows EPP. White arrows show the posterior pituitary.*

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| --- |
| Figure 2.Anteroposterior and lateral radiographs of the right wrist. |

Figure 3. Anteroposterior and lateral radiographs of the left wrist.

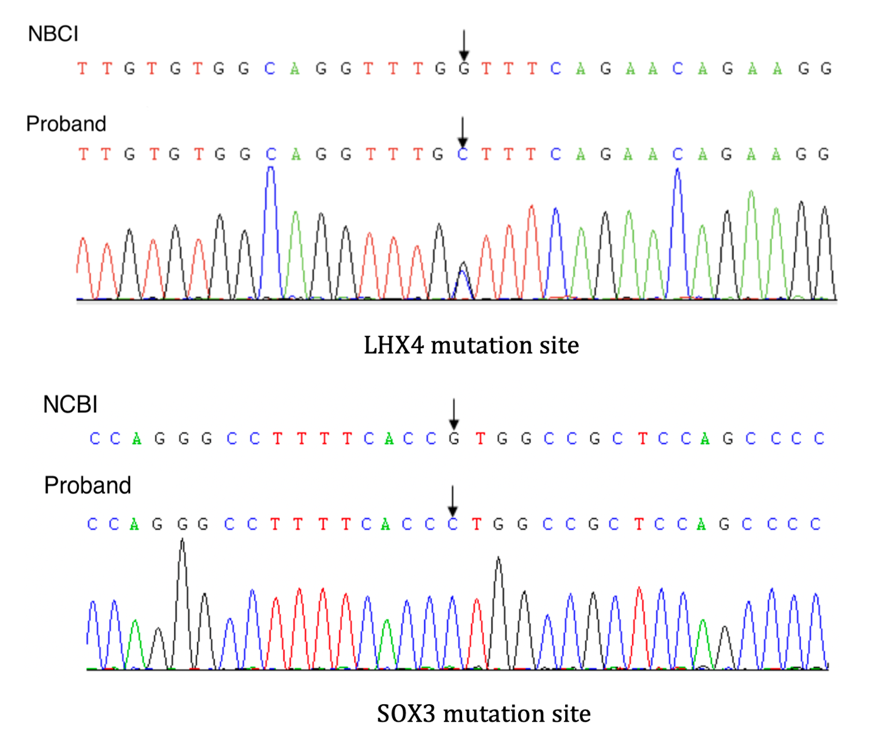


Figure 4. WES result on the proband, showed c.612G>C mutation in LHX4 and mutation (C.157G>C) in SOX3.

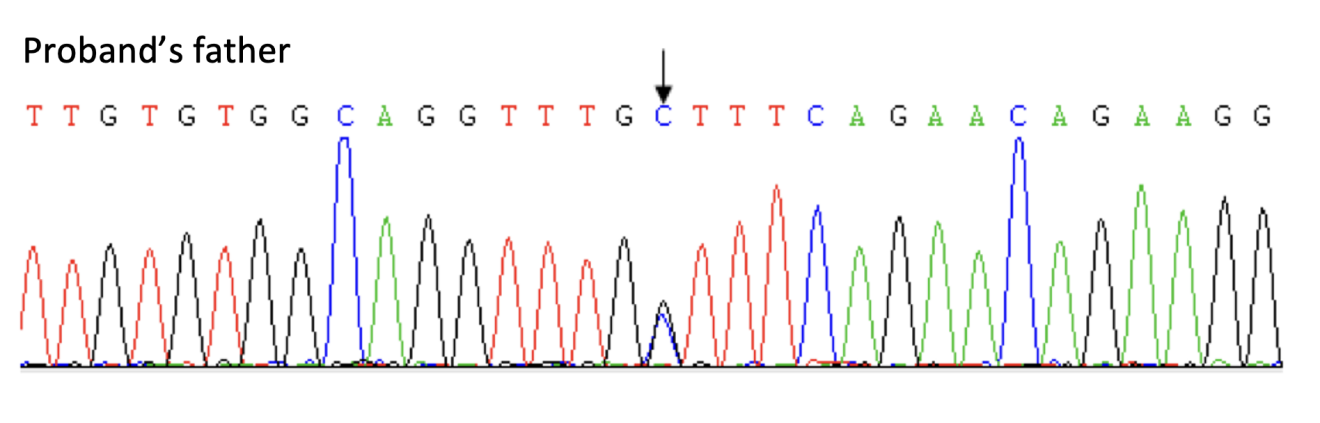
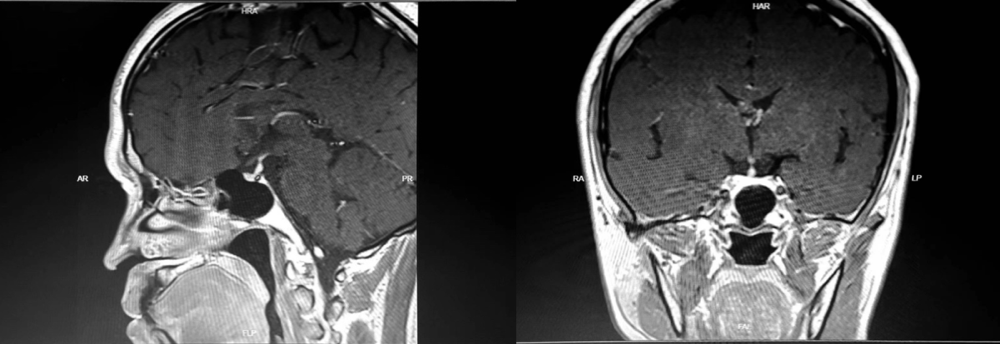


Figure 5. WES result on proband’s father, a mutation(c.612G>C) in the LHX4 was identified.



*Figure 6．*Coronal and Sagittal MRI views of the proband’s father. Image shows slender pituitary stalk and ectopic neuropituitary. White arrows show the posterior pituitary.

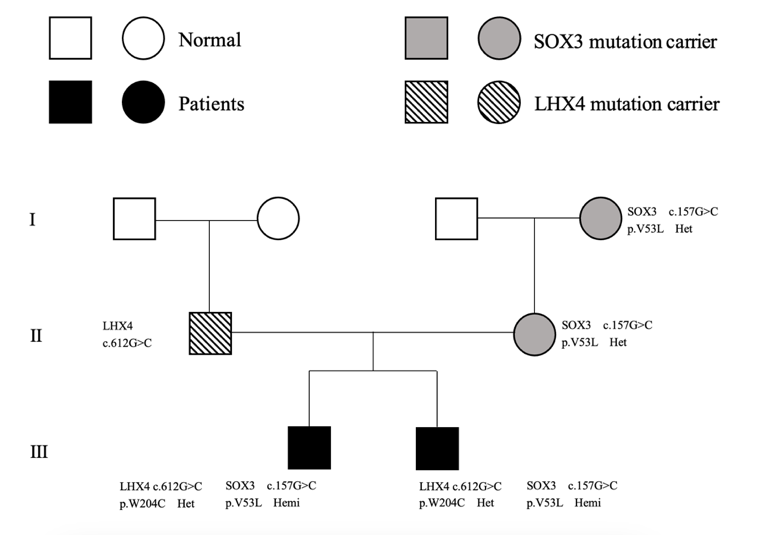


Figure 8. Pedigree of the family that was analyzed in this study.



Figure 7.Sagittal MRI views of the proband’s brother. Image shows irregular morphology of the pituitary gland with a thin pituitary stal*k*.



Figure 9. Gonad picture of the proband.

Figure 10.Proband(right side)and his father(left side).