

**Additional File 6.** Primers used in this study.

<b>4q25 fragments</b>	
AF1-Forward	GCAATTCTGTGTTAATATAAGAG
AF1-Reverse	GGCCATCAGTAAATCACATTT
AF2-Forward	GCTAAGCTCGCCCCAAGC
AF2-Reverse	GCTAGTATCTTGATGACTTTAT
AF3-Forward	GCAAGAACCAACTAGGGCCA
AF3-Reverse	ATGGAGAATGTAAGTTTGGAGC
AF4-Forward	GCACTGGCTGGATTACATACTTT
AF4-Reverse	ACTATTTGATAGCCTCAGAGC
AF5-Forward	GCAGGGAACATAGGTAAGCTT
AF5-Reverse	ACATATGCAGAGGTAGAATTGC
AF6-Forward	GCCCAAAACACCTCCAAGT
AF6-Reverse	GGGATAACAAATCTGAAAGC
AF7-Forward	GCTGCAAGATAGTATCAATTAAGC
AF7-Reverse	GCTGTTTGCCTCTTCACAATTC
AF3.1-Forward	GCAAGAACCAACTAGGGCCA
AF3.1-Reverse	CCTGTTTACTTGTTAGAGATAACAGG
AF3.2-Forward	CCAACCCAAATTGACAAATTCCTGA
AF3.2-Reverse	CATGCAAGACAGAACTCAACAGC
AF3.3-Forward	CGACTCCCTTTCTGACTTTTCAT
AF3.3-Reverse	GACAGTGACTCTCAAACCTTAGC
AF3.4-Forward	GCTCTCCAGGAGGTTTTCATG
AF3.4-Reverse	CGGATCACCAAATCCAAAGGC
AF3.5-Forward	CCAGGAGAATAAGAATTGAGAAG
AF3.5-Reverse	CAGATTAAGGCAAGCTCTCACC
AF3.6-Forward	GGTTGTTTCTGGCTTTAAAT
AF3.6-Reverse	ATGGAGAATGTAAGTTTGGAGC
AF3.5Δ-Forward	CCAGGAGAATAAGAATTGAGAAG
AF3.5Δ-Reverse	ACATGAAATCTGGAAAGAATAA
AF3.6Δ-Forward	ATCTATTCCAGAGCAAAATCTCT
AF3.6Δ-Reverse	ATGGAGAATGTAAGTTTGGAGC
AF3.5∩3.6-Forward	CCATCATCTGCACAATGAGCA
AF3.5∩3.6-Reverse	CAGATTAAGGCAAGCTCTCAC
ASE-Sall-Forward	<u>GTTCGACCGCCCGCTATTC</u> CGCAGCTC*
ASE-XhoI-Reverse	<b><u>CTCGAG</u></b> CCAACACTCTTTCTCGCCTAGC†

\*Underlined italicized sequence corresponds to the Sall recognition site tag.

†Bold italicized sequence corresponds to the XhoI recognition site tag.

<b>Chromosome conformation capture (3C)</b>	
XPB/Eccr3-Forward	TGACCTCCACACTCCTGAC
XPB/Eccr3-Reverse	ATGCGCAATTAGAAACTGC
Pitx2ab	CAGAAGCACACATTCCACAGAGC
Pitx2c	GTTGGAGGACGCGTACGCCAC

Enpep	TCTCCTTGTGGGAAGAGATC
c1	ACCCAACATCAACCATTGCT
c2	CTGACCCTGCGTTCCATACT
c3	AGTGCTTTGAATGAGCTTTGG
c4	TGCATTTGCTCAAGGATTTG
c5	GCTGAGAACCCTGAAGTTGC
Hind-1F	TCACCACTGTTCTTAGCTTGAGTGC
Hind-2R	CCATGAGAGCTTCTTGACTGTTTGG
Hind-3F	CCCATGCTTTCTGTCCTAAACC
Hind-4R	CCATGGTAATGCACATGGAAGG
Hind-5R	GGATTCAAACCTCAGACCCTGTT
Hind-6F	TGGCTCAGCACTTCACTCATCC
Hind-7F	TCCTCCTAGCTGGCCTATATTTCTG
Hind-8F	GGCCCACAAAGCTGGGTAGC
Hind-9R	TTGGCATTAGTGTGTCCTTACAAAGC
Hind-10F	AGCTTGTAGACACAATCCTTGC

<b>Transgenic mouse genotyping</b>	
Myogenin-Forward	CCAAGTTGGTGTCAAAAGCC
Myogenin-Reverse	CTCTCTGCTTTAAGGAGTCAG
LacZ-Forward	GCGACTTCCAGTTCAACATC
LacZ-Reverse	GATGAGTTTGGACAAACCAC

<b>In situ hybridization (ISH)</b>	
Enpep-Forward	<u>ATTTAGGTGACACTATAGAA</u> CCGTCATCCGCTACATCTC*
Enpep-Reverse	<b><i>GTAATACGACTCACTATAGGG</i></b> ATGGCAATACACCCTGCAA†
Hcn4-Forward	<u>ATTTAGGTGACACTATAGA</u> AAGCATGATGCTTCTGCTGTGT*
Hcn4-Reverse	<b><i>GTAATACGACTCACTATAGGG</i></b> TTGAAGTTGTCCACGCTCAG†

\*Underlined italicized sequences correspond to the SP6 RNA polymerase initiation site tag.

†Bold italicized sequences correspond to the T7 RNA polymerase initiation site tag.