cagctAAGGAGAAAGCAAAACAAAACAATgataaaaacgtttaaaatccaaggacaaaaaccggagtcg gtctcaaaatccgcgccgttcagtgctccactcggtagtcgactcggctgcaggccccggcctggccggagcaacgcggg ggacacccccgattccgctggggagcgcagcccacagctccccttcgccaggcgcccaaggaccctcaaggcgcgggg cccacacttgaagcctgggaacgcgcagacaggaaaccctcttcctcctaagcagtttcttgctcgtcggatgagaggcgc ctcccgcccgctgagctgcccgcacctcggcattcgccccctcctggccagcgctccagccgccggggttcaggctcagtt ccgcccggcaacagacagacgggcactcacgccgctccctgctcgcgcgctccctgaagcatcagaggggaaaacagc gtggctctgggctcgggtgctggggctgtgatgtcctcggaaagtcagctccagccccagatccccgcgtgtctgggagat gggcgagggtcagggacaccaggtttgttcgaggtggggcaacttcagtgacggaccctcccgtgagaccccttcccatc ggTGTCcctctgacggcggcagaagagggCAGACAGACtgaCAGACacgtAGACcaacagtgcggcccca gggttcgtcccCAGACtcgctcgctcatttgttggcgactggggctcagcgcagcgaagcccgatgtggtccggaggca gtgggaaggcgggggctgggaggcgggggggggaggagcagcccggcaggctcaggtgaaacccccaccct ccgcaagttggttgcaaagcagcattcaccttccttcctctcaaccatctctcctcttgttactcccccaccccacctcctg ccctcccgctctcggttccctcctccttcccctccacctcctcccgcgctccgctggtaccccacaaaaaatgggg

acaagtgaaacT(+1)taa

Deletion control: aaggagaaagcaaaacaaaacaat (-1590/-1566)

Deletion1: GACAGACtgaCAGACcacgtAGACca (-538/-514)

Deletion2: AGACacgtAGAC (-527/-516)

Mutation control:ggtgtccc (-570/-563)

ggctgtcc

Mutation1: gaCAGACacgtAGAC (-530/-516)

gaGCTTCTcgtCTTC

Mutation2: gCAGACAGACtgaCAGACAcgtAGAC (-541/-516)

gTGCCTTGACtgaGCTTCTcgt CTTC

Mutation3: gCAGACAGACtgaCAGACAcgtAGACcaacagtgcggccccagggttcgtcccCAGAC (-541/-484)

gTGCCTTGACtgaGCTTCTcgtCTTCcaacagtgcggccccagggttcgtcccTCTGCT

SUPPLEMENTARY FIG. S4. NKX2-1 promoter and putative SMAD binding elements (SBEs). This region contains 1599 bp, from -1595 to +4 relative to the transcription start site of NKX2-1. Bold: transcription start site. Red letters for mutated nucleotide residues. Putative SBEs, including a consensus sequence [C]AGAC in capitals.