Supplements

Table S1. Primers for Pluripotency, Multipotent Capacity, and Chondrogenic Differentiation

Assay	Gene	Primers	Size
Pluripotency	NANOG	FW: 5' AGTCCCAAAGGCAAACAACCCACTTC 3' RV: 5' TGCTGGAGGCTGAGGTATTTCTGTCTC 3'	161 pb
	OCT3/4	FW: 5' GGGGTTCTATTTGGGAAGGTAT 3' RV: 5' GTTCGCTTTCTCTTTCGGGC 3'	191 pb
	TRA1-81	FW: 5' GTAACTGGGCAAAGTGTG 3' FW: 5' GTAACTGGGCAAAGTGTG 3'	91 pb
Multipotent Capacity	RUNX2	FW: 5′ GGAATGCCTCTGCTGTTATG 3′ RV: 5′ AGGATTTGTGAAGACGGTTATG 3′	116 pb
	PPARɣ	FW: 5' TCTCTCCGTAATGGAAGACC 3' RV: 5' GCATTATGAGACATCCCCAC 3'	473 pb
	SOX9	FW: 5' AGGAAGTCGGTGAAGAACGG 3' RV: 5′ AAGTCGATAGGGGGCTGTCT 3′	274 pb
	COL2A1	FW: 5' CAACAACCAGATTGAGAGCA 3' RV: 5' CCATGTTGCAGAAAACCTTC 3'	168 pb
	ACAN	FW: 5′ GGAGCAGGAGTTTGTCAACA 3′ RV: 5′ CTTCTCGTGCCAGATCATCA 3′	187 pb
Chondrogenic Differentiation	SOX9	FW: 5' AGGAAGTCGGTGAAGAACGG 3' RV: 5′ AAGTCGATAGGGGGCTGTCT 3′	274 pb
	PGR4	FW: 5′ GTAGATGAAGCTGGAAGTGG 3′ RV: 5′ CTGGGTCTGGGATTTATTGG 3′	134 pb
	PDPN	FW: 5′ GAAAGTGGATGGAGACACACA 3′ RV: 5′ CAATGAAGCCGATGGCTAGTA 3'	104 pb
	RUNX2	FW: 5′ GGAATGCCTCTGCTGTTATG 3′ RV: 5′ AGGATTTGTGAAGACGGTTATG 3′	116 pb
	COL10	FW: 5′ GCTAAGGGTGAAAGGGGTTC 3′ RV: 5′ CTCCAGGATCACCTTTTGGA 3′	118 pb
Housekeeping genes	GAPDH	FW: 5' ACAACTTTGGTATCGTGGAAGG 3' RV: 5' GCCATCACGCCACAGTTTC 3'	101 pb
	B2M	FW: 5' GCTGTCTCCATGTTTGATGTATC 3' RV: 5' TCTCTGCTCCCCACCTCTAAGT 3'	89 pb
	ACTB	FW: 5' GCCCTGGCACCCAGCACAAT 3' RV: 5' AGGGGCCGGACTCGTCAT 3'	148 pb

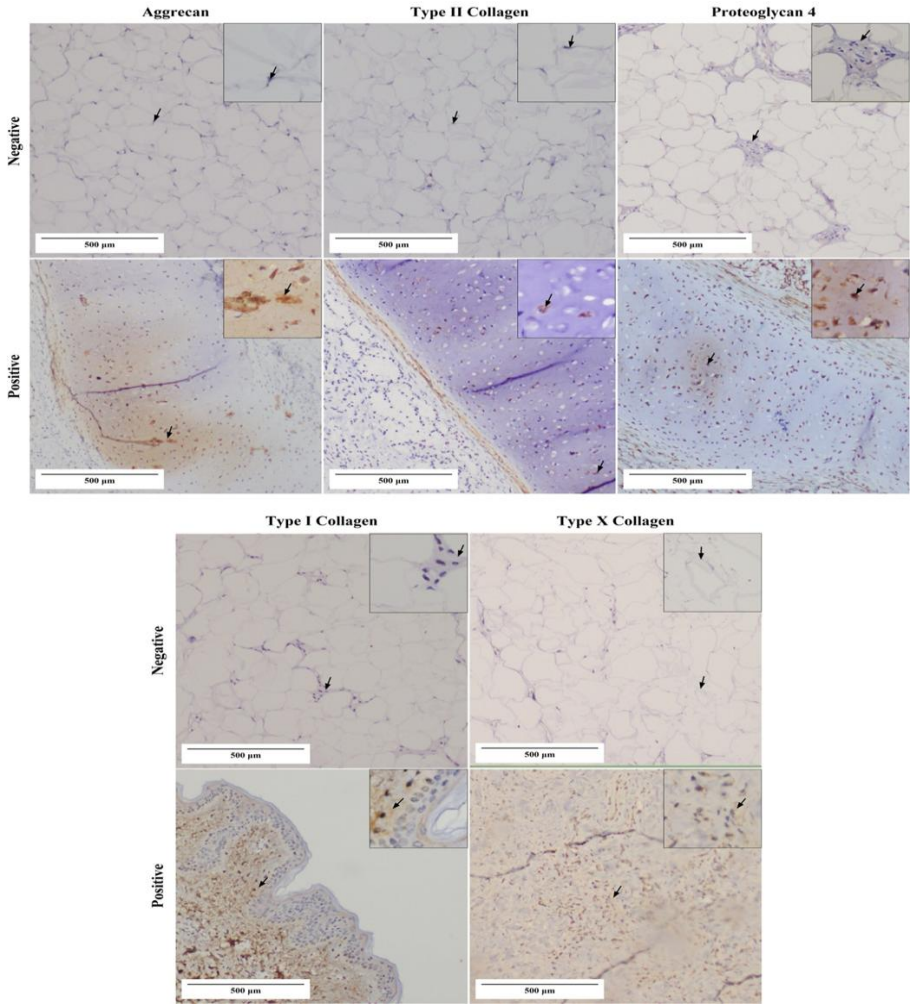

Figure S1. Extracellular Matrix (ECM) Proteins in Control Tissues. (A) Negative expression of aggrecan, type II collagen, and proteoglycan-4 in adipose tissue; positive expression of aggrecan, type II collagen, and proteoglycan-4 in fetal tracheal cartilage. (B) Negative expression of type I and type X collagen in adipose tissue; positive expression of type I collagen in the skin and type X collagen in the intervertebral disc. Images acquired using OLYMPUS DP22 microscope, 10X objective; inset at 40X objective

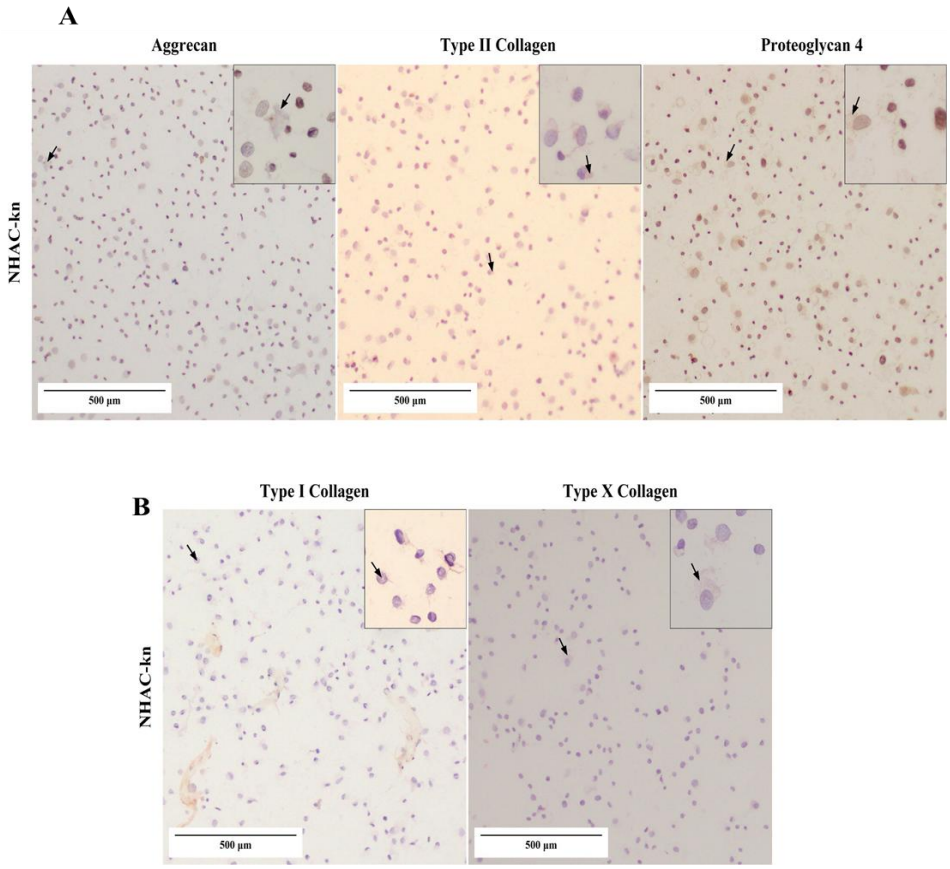

Figure S2. ECM Proteins in the NHAC-kn Cell Line. (A) Positive expression of aggrecan, type II collagen, and proteoglycan-4 in the NHAC-kn cell line. (B) Positive expression of type I collagen (+1) and negative expression of type X collagen in the NHAC-kn cell line. Images acquired using OLYMPUS DP22 microscope, 10X objective; inset at 40X objective.