## SUPPLEMENTARY DATA

## Cellular and tissue selectivity of AAV serotypes for gene delivery to chondrocytes and cartilage

Dong Suk Yoon<sup>1#</sup>, Kyoung-Mi Lee<sup>1,2#</sup>, Sehee Cho<sup>1,3#</sup>, Eun Ae Ko<sup>1</sup>, Jihyun Kim<sup>1</sup>, Sujin Jung<sup>1</sup>, Jae-Hyuck Shim<sup>4,5,6</sup>, Guangping Gao<sup>5,6,7,8</sup>, Kwang Hwan Park<sup>1</sup>, Jin Woo Lee<sup>1,2,3</sup>

<sup>1</sup>Department of Orthopedic Surgery, Yonsei University College of Medicine, Seoul 03722, South Korea

<sup>2</sup>Severance Biomedical Science Institute, Yonsei University College of Medicine, Seoul 03722, South Korea

<sup>3</sup>Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine, Seoul 03722, South Korea

<sup>4</sup>Division of Rheumatology, University of Massachusetts Medical School, Worcester, MA 01605, USA

<sup>5</sup>Li Weibo Institute for Rare Diseases Research, University of Massachusetts Medical School, Worcester, MA 01605, USA

<sup>6</sup>Horae Gene Therapy Center, University of Massachusetts Medical School, Worcester, MA 01605, USA

<sup>7</sup>Department of Microbiology and Physiological Systems, University of Massachusetts Medical School, Worcester, MA 01605, USA

<sup>8</sup>Viral Vector Core, University of Massachusetts Medical School, Worcester, MA 01605, USA # DSY, K-ML, and SC contributed equally to this work and are co-first authors to this article.

Corresponding authors: Professor Jin Woo Lee, Department of Orthopaedic Surgery, Yonsei University College of Medicine, Seoul 03722, South Korea; <a href="mailto:ljwos@yuhs.ac">ljwos@yuhs.ac</a> (Tel: +82 2 2228 2190) and Professor Kwang Hwan Park, Department of Orthopaedic Surgery, Yonsei University College of Medicine, Seoul 03722, South Korea; <a href="mailto:khpark@yuhs.ac">khpark@yuhs.ac</a> (Tel: +82 2 2228 2185)

## SUPPLEMENTARY FIGURES

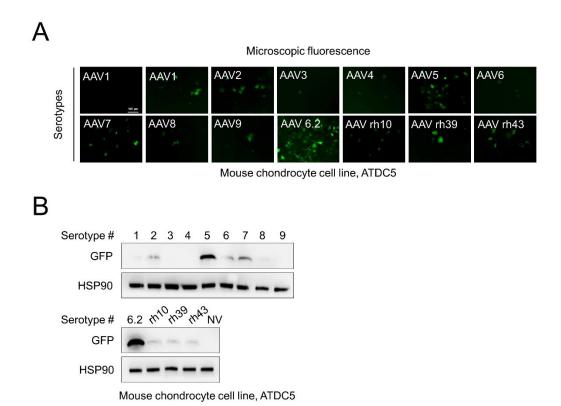


Figure S1. Transduction efficiency of individual AAV serotypes in ATDC5 cells. (A) Representative fluorescence images depicting GFP expression in ATDC5 cells 2 days after transduction with individual AAV serotypes. (Scale bar =  $100 \mu m$ ). (B) Western blot analysis of GFP expression 48 h after ATDC5 cells were transduced with individual AAV serotypes.