

## SUPPLEMENTARY TABLES

**Supplementary Table 1. Information on the training datasets.**

Data number	Platform information	Osteoarthritis group	Control group	Species
GSE206848	GPL570	9	7	Homo sapiens
GSE55457	GPL96	23	10	Homo sapiens
GSE55235	GPL96	20	10	Homo sapiens
GSE77298	GPL570	16	7	Homo sapiens

**Supplementary Table 2. Sequences of primers used for real-time PCR.**

Gene symbol	Sequence (5' - 3')
GABARAPL1-F	TTCTGGTTGCACAATACTGGATGCC
GABARAPL1-R	CCGATAAATAACACCTTCTGCCCC
SAT1-F	AGAGGTGCTTCTGATCTGTCCAGTG
SAT1-R	ATGGAGGTTGTCATCTACAGCAGCA
EGFR-F	TGACTACCAGCAGGACTTCTTTCCC
EGFR-R	TCCTCCGTGGTCATGCTCCAATAAA
ELOVL5-F	GCACATTCCCTCTTGGTTGGTTGTA
ELOVL5-R	TGGTCCTTCAGGTGGTCTTTCCTTC
TBK1-F	AGTGAATCAAACATACCATGACCCC
TBK1-R	AGAGCCAAACCTTTCTAAAATGTGGT
TRIM26-F	TGACTTTCACCAACGCAGAGTCACA
TRIM26-R	CAGATGTCAGGGCTCAGGGTCTTAG
SLC39A7-F	TGTGGGTTCTCAGTGGAATTGTTGC
SLC39A7-R	GAACGCTCTTGTCTTCCATGTCCATG
PTPN6-F	CAGAAGCAGGAGGTGAAGAAGCTGC
PTPN6-R	GCTGTGGTCAAAGGGGAGAATGTTC
BEX1-F	TGGAGTCCAAAGAGAAACGAGCAGT
BEX1-R	TCTAGGCACACAGTATTCACCAGCA
MMP13-F	AACGCCAGACAAATGTGACCCTTC
MMP13-R	CGTTAAAAACAGCTCCGCATCAACC
Collagen II-F	ACCTTGGACGCCATGAAGGTTTTTC
Collagen II-R	CTTGCTGCTCCACCAGTTCTTCTTG
GAPDH-F	GACATCAAGAAGGTGGTGAAGCAGG
GAPDH-R	GTGTCGCTGTTGAAGTCAGAGGAGA