



Additional file 8. OA vs NOF analysis of qPCR data for hip and knee cartilage combined. The qPCR data for hip and knee overall gene expression were combined and compared to gene expression levels in the NOF cohort for (A) *COL12A1*, (B) *TMEM30A*, (C) *MYO6*, (D) *SENP6*, (E) *FILIP1* and (F) *COX7A2*. The expression of *COL12A1* and *COX7A2* were both significantly increased in OA hip and knee relative to NOF. The expression of *SENP6* was significantly decreased in OA hip and knee relative to NOF. The horizontal lines represent the mean and the error bars represent the SEM. Statistical significance was assessed using the Mann-Whitney *U* test and is not corrected for multiple testing. * $p < 0.05$; ** $p < 0.01$.