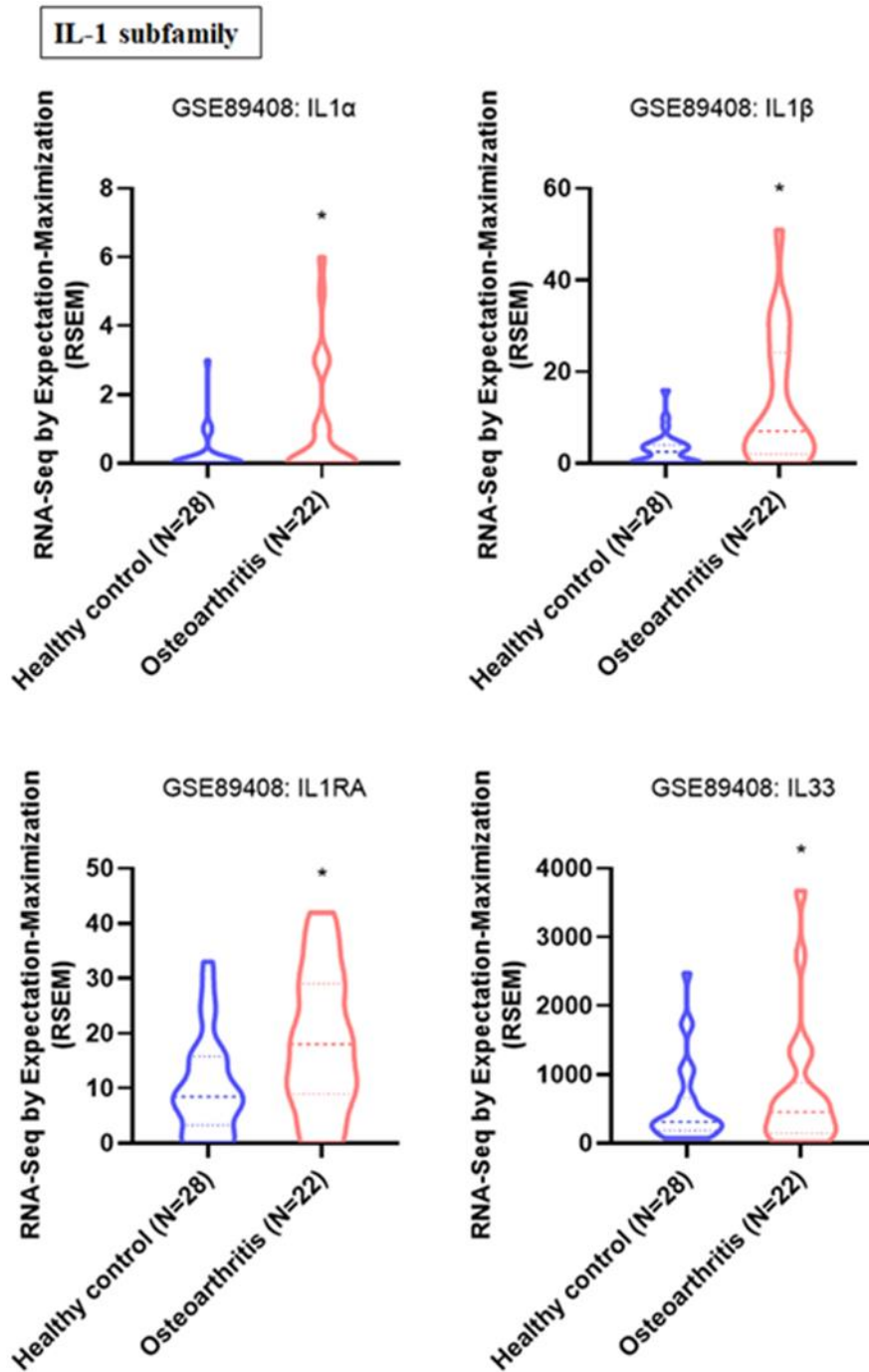
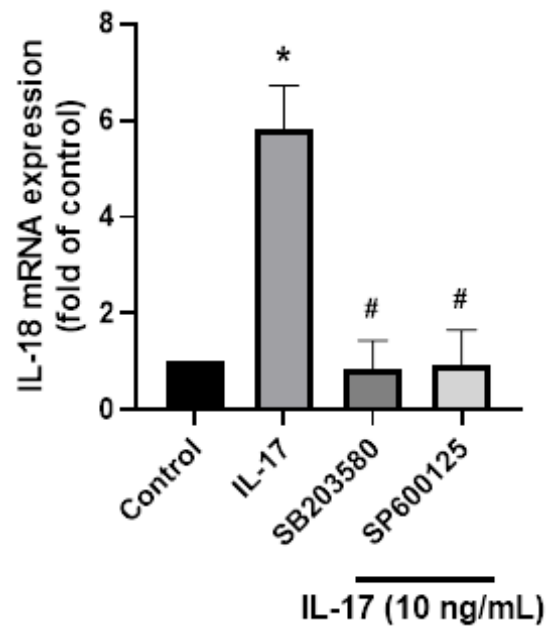


SUPPLEMENTARY FIGURES



Supplementary Figure 1. IL-1 family members and its receptor are up-regulated in specimens of OA patients. The GEO dataset (GSE890408) contained mRNA expression pattern from the synovial tissues of OA patients and normal donors were used to analyze IL-1 α , IL-1 β , IL-33 and IL-RA expressions. Results are expressed as the means \pm S.D. * $p < 0.05$ compared with controls.



Supplementary Figure 2. IL-17-induced promotion of IL-18 production in OASFs requires p38 and JNK signaling. OASFs were pretreated with p38 and JNK inhibitors SB203580 (5 μ M) or SP600125 (5 μ M) for 1 h, then incubated with IL-17 (10 ng/mL) for 24 h. IL-18 expression was determined by qPCR. Results are expressed as the means \pm S.D. * $p < 0.05$ compared with controls; # $p < 0.05$ compared with the IL-17-treated group.

| Ensembl Gene Id | miRNA name | miTG score | Also Predicted |
|---------------------------|--------------|-------------------|--------------------------|
| 1 ENSG00000100030 (MAPK1) | hsa-miR-4492 | 0.885935706270861 | <input type="checkbox"/> |

Gene details [ⓘ]
miRNA details [ⓘ]
pubMed links: [miRNA](#) | [gene](#) | [both](#)
UCSC graphic [ⓘ]

| Region | Binding Type | Transcript position | Score | Conservation |
|--------|--------------|---------------------|---------------------|--------------|
| UTR3 | 7mer | 9659-9675 | 0.015976824446552 | 5 |
| UTR3 | 6mer | 9542-9548 | 0.00296085739835613 | 2 |
| UTR3 | 7mer | 9282-9306 | 0.012355223162973 | 4 |
| UTR3 | 6mer | 7818-7835 | 0.00163176721363082 | 2 |
| UTR3 | 8mer | 7690-7711 | 0.00147332894034286 | 2 |
| UTR3 | 6mer | 695-714 | 0.00271090948120946 | 2 |
| UTR3 | 6mer | 309-337 | 0.0032522213901444 | 2 |
| UTR3 | 6mer | 92-110 | 0.00384781608633246 | 1 |

Supplementary Figure 3. Prediction result of mir-4492 binding to ERK (MAPK1) 3'UTR using the DIANA-microT-CDS tool. The online database for miRNA target prediction (DIANA-microT-CDS) was utilized to predict miR-4492, which is a potential target for ERK mRNA.