

Additional File 6. RegulomeDB bioinformatics database search of the SNPs in high LD with rs11842874. Detailed are the chromatin states around the SNPs in several types of joint-related cell from various origins. HG19 coordinates refer to the human genome version 19. Motif specifies any recognised transcription factor binding consensus sequences which incorporate the SNP.

| SNP | Distance from rs11842874 (bp) | HG19 coordinates | Motif | Transcription factor binding | Chromatin state | | | | | |
|-------------|-------------------------------|------------------|-------------------------------------|------------------------------|--------------------------|------------------------------------|--------------------------------------|--|----------------------------------|-------------------------|
| | | | | | Osteoblast primary cells | Adipose derived MSC cultured cells | MSC derived adipocyte cultured cells | MSC derived chondrocyte cultured cells | Bone marrow derived cultured MSC | H1 derived MSCs |
| rs75351348 | 8821 | chr13:113685688 | No data | No data | Weak repressed polycomb | Repressed polycomb | Weak repressed polycomb | Repressed polycomb | Weak repressed polycomb | Weak repressed polycomb |
| rs118021693 | 5763 | chr13:113688746 | No data | No data | No data | No data | No data | No data | No data | No data |
| rs76623552 | 2963 | chr13:113691546 | No data | No data | Weak repressed polycomb | Weak repressed polycomb | Quiescent/low | Weak repressed polycomb | Weak repressed polycomb | Weak repressed polycomb |
| rs11842874 | 0 | chr13:113694509 | No data | No data | Repressed polycomb | Weak repressed polycomb | Weak repressed polycomb | Repressed polycomb | Repressed polycomb | Repressed polycomb |
| rs1888227 | 720 | chr13:113695229 | RREB-1 | No data | Repressed polycomb | Enhancers | Enhancers | Weak repressed polycomb | Repressed polycomb | Repressed polycomb |
| rs113120232 | 1271 | chr13:113695780 | Pax-4 Pax-5 SP1 | USF1 USF2 MAX | Weak repressed polycomb | Enhancers | Enhancers | Weak repressed polycomb | Weak repressed polycomb | Weak repressed polycomb |
| rs79866171 | 2546 | chr13:113697055 | PPARdirectrepeat1 COUPdirectrepeat1 | No data | Weak repressed polycomb | Weak repressed polycomb | Weak repressed polycomb | Repressed polycomb | Repressed polycomb | Repressed polycomb |