**SUPPLEMENTARY TABLES**

**Supplementary Table 1. Primer set list for qPCR.**

| Target gene | Direction | Primer sequence |
|-------------|-----------|-----------------|
| Mlxipl      | Forward   | GGGTGCCCCATCACACATCAG |
|             | Reverse   | TGCGGTAGACACCATCCCCAT |
| cJun        | Forward   | GGCACATCACCACATACCC |
|             | Reverse   | GTGACACTGGGCAGCGTATT |
| TNF-α       | Forward   | GCATGATCCGAGATGGAACTGG |
|             | Reverse   | CGCCACGAGCAGAGAATGAGAG |
| IL-1β       | Forward   | CACACTAGCAGTGTACCATCAG |
|             | Reverse   | AGGAGTGGCTAAGGACAAGACC |
| IL-6        | Forward   | ACAGCAACAGGTGGTGGAAG |
|             | Reverse   | TTTGAGGGTGCAGCGAACTT |

**Supplementary Table 2. Primer for construction of plasmids and dual-luciferase reporters.**

| Target gene       | Direction | Primer sequence (restriction enzymes in red) |
|-------------------|-----------|---------------------------------------------|
| Mlxipl-promoter   | NheI-F    | AAAAGCTAGCACAAAGATGACATAGAGACAGCAAGGG |
|                   | Xho1-R    | AAAACTCAGGGATGCTTTCAGAGCCAAAT |
| cJun CDS          | NheI-F    | AAAAGCTAGCATGACTGCAAAAGATGGAAACGA |
|                   | NotI -R   | AAAAGCGGCGGTCTAAAACGTTTCAATGGCAATGCTG |

**Supplementary Table 3. Primers for the target promoter fragments for ChIP-qPCR.**

| Target gene       | Direction | Primer sequence (restriction enzymes in red) |
|-------------------|-----------|---------------------------------------------|
| Mlxipl1-promoter  | Forward   | ACTTCATCACATCAGGCTTAACC |
|                   | Reverse   | GAAGTTTATGCTACGGCTTCA |
| Mlxipl2-promoter  | Forward   | AATAATGACACCCCCCTAC |
|                   | Reverse   | TCCCATATAGCTTCTTACATGTC |
| Mlxipl3-promoter  | Forward   | CTCGTGTTATGTTGCTAGGAAACTTATG |
|                   | Reverse   | GCGTCAAGTAGGATTTGCTAGCT |
| GAPDH             | Forward   | CATGTTGGAACCATGAG |
|                   | Reverse   | GTCTTCTGGTGCGAGGTGAT |
**Supplementary Table 4. List of cJun prediction transcription factor.**

| Bioinformatics sites | prediction transcription factor | Bioinformatics sites | prediction transcription factor | Bioinformatics sites | prediction transcription factor |
|----------------------|--------------------------------|----------------------|--------------------------------|----------------------|--------------------------------|
| JAPSAR               | NFYA                           | Promo                | GR                             | GTRD                 | Mbd3                           |
| Foxq1                | C/EBPbeta                      |                      |                                |                      | Tcf7l2                          |
| Foxd3                | C/EBPalpha                     |                      |                                |                      | Sox10                          |
| Cebpa                | USF2                           |                      |                                |                      | Pou1f1                          |
| FOS::Jun             | USF-1                          |                      |                                |                      | Jun                            |
| Ddit3::Cebpa         | AP-2                           |                      |                                |                      | Hnf4a                          |
| SP1                  | c-Fos                          |                      |                                |                      | Egr2                           |
| FEV                  | C/EBPdelta                     |                      |                                |                      | Sp1                            |
| NFATC2               | NF-1                           |                      |                                |                      | Nr1h4                          |
| NR4A2                | Nkx2-1                         |                      |                                |                      | Mlxipl                         |
| Foxa2                | SRF                            |                      |                                |                      | Chd8                           |
| Znf423               | HNF-3beta                      |                      |                                |                      |                                |
| SOX10                | FOS::Jun                       |                      |                                |                      |                                |
| Gfi1                 | DBP                            |                      |                                |                      |                                |
| CREB1                | HNF-3alpha                     |                      |                                |                      |                                |
| Mafb                 | CREB                           |                      |                                |                      |                                |
|                     | CBF(2)                         |                      |                                |                      |                                |
|                     | Crx                             |                      |                                |                      |                                |
|                     | HNF-1                          |                      |                                |                      |                                |
|                     | Sp1                             |                      |                                |                      |                                |