### Supplementary Table 1. Overview of co-expression patterns (log$_2$-scale) between SPI1 and S100S8 in 10 tissues.

| Tissues                  | Sample number | Pearson coefficient r | p-value (t-test, 2 tail) |
|--------------------------|---------------|------------------------|--------------------------|
| Blood                    | 444           | 0.9261                 | 3.6E-189                 |
| Skin mixed tissue        | 813           | 0.685                  | 1.14E-113                |
| Brain mixed tissue       | 1146          | 0.5211                 | 8.59E-81                 |
| Blood vessel mixed tissue| 604           | 0.6012                 | 1.26E-60                 |
| Heart mixed tissue       | 376           | 0.6809                 | 1.52E-52                 |
| Stomach tissue           | 173           | 0.7796                 | 1.39E-36                 |
| Adipose mixed tissue     | 515           | 0.4698                 | 1.22E-29                 |
| Muscle tissue            | 396           | 0.474                  | 1.41E-23                 |
| Spleen tissue            | 99            | 0.772                  | 8.49E-21                 |
| Colon tissue             | 304           | 0.4856                 | 2.18E-19                 |

### Supplementary Table 2. Overview of co-expression patterns (log$_2$-scale) between SPI1 and S100S9 in 10 tissues.

| Tissues                  | Sample number | Pearson coefficient r | p-value (t-test, 2 tail) |
|--------------------------|---------------|------------------------|--------------------------|
| Blood                    | 444           | 0.9505                 | 1.8E-226                 |
| Skin mixed tissue        | 813           | 0.7012                 | 2.7E-121                 |
| Brain mixed tissue       | 1146          | 0.5261                 | 1.48E-82                 |
| Blood vessel mixed tissue| 604           | 0.7186                 | 5.1E-97                  |
| Heart mixed tissue       | 376           | 0.7644                 | 2.82E-73                 |
| Stomach tissue           | 173           | 0.8133                 | 4.46E-42                 |
| Adipose mixed tissue     | 515           | 0.5597                 | 8.64E-44                 |
| Muscle tissue            | 396           | 0.5243                 | 2.44E-29                 |
| Spleen tissue            | 99            | 0.8142                 | 1.23E-24                 |
| Liver tissue             | 110           | 0.7945                 | 3.87E-25                 |