Supplementary Table 1.qPCR reaction conditions

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| --- | --- | --- | --- | --- |
| Stage 1 | Pre-mutability | Rep:1 | 95℃ | 30sec |
| Stage 2 | Circular reaction | Reps:40 | 95℃ | 3-10sec |
| 60℃ | 10-30sec |
| Stage 3 | Melting Curve | Rep:1 | 95℃ | 15sec |
| 60℃ | 60sec |
| 95℃ | 15sec |

Supplementary Table 2.Primer sequence

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| Gene | Primer | Primer sequence. |
| Mouse TNF-α | F | GGTGCCTATGTCTCAGCCTCTT |
| R | GCCATAGAACTGATGAGAGGGAG |
| Mouse IL-1β | F | GCAACTGTTCCTGAACTCAACT |
| R | ATCTTTTGGGGTCCGTCAACT |
| Mouse IL-6 | F | TAGTCCTTCCTACCCCAATTTCC |
| R | TTGGTCCTTAGCCACTCCTTC |
| Mouse HIF-1α | F | TTTGCCCAGGGGACTAAAGC |
| R | TGTGCAGTATTGTAGCCACG |
| Mouse GYS1 | F | CACAGAACGGTTGTCGGACTTG |
| R | AGGTGAAGTGGTCTGGAAAGGC |
| Mouse P2Y14 | F | ACCTCCGTCAAGAGGAAGTCCA |
| R | GCTGTAGTGACCTTCCGTCTGA |
| Mouse Pgm1 | F | AGCCAATGACCCAGATGCTGAC |
| R | TCCAGGAAGTGAAGAGCCACCA |
| Mouse Ugp2 | F | CTGATGAACCCACCCAATGGGA |
| R | GAGCGATTTCCACCAGTCTCAG |
| Mouse β-actin | F | GGCTGTATTCCCCTCCATCG |
| R | CCAGTTGGTAACAATGCCATGT |
| Human TNF-α | F | CTCTTCTGCCTGCTGCACTTTG |
| R | ATGGGCTACAGGCTTGTCACTC |
| Human IL-1β | F | CCACAGACCTTCCAGGAGAATG |
| R | GTGCAGTTCAGTGATCGTACAGG |
| Human IL-6 | F | ACTCACCTCTTCAGAACGAATTG |
| R | CCATCTTTGGAAGGTTCAGGTTG |
| Human β-actin | F | CACCATTGGCAATGAGCGGTTC |
| R | AGGTCTTTGCGGATGTCCACGT |

Supplementary Table 3.shRNA sequence

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| Mouse HIF-1α | shRNA#1 | GCTCATCCAAGGAGCCTTAAC |
| shRNA#2 | GCTCACCATCAGTTATTTACG |
| shRNA#3 | GCAGGAATTGGAACATTATTG |
| Mouse GYS1 | shRNA#1 | CCTGGAGAATTTCAATGTA |
| shRNA#2 | GCACCTGGACTTC AACCTA |
| shRNA#3 | GCAGCTGCCCGCCCGATTC |