**Table S1: The sequences of shRNA oligonucleotides used in this study**

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| shGYS1-1 | Forward | AATTCAAGGGCTGCAAGGTGTATTTCTCGAGAAATACACCTTGCAGCCCTTGTTTTTAT |
| Reverse | AAAAACAAGGGCTGCAAGGTGTATTTCTCGAGAAATACACCTTGCAGCCCTTG |
| shGYS1-2 | Forward | AATTCCGCTATGAGTTCTCCAACAACTCGAGTTGTTGGAGAACTCATAGCGGTTTTTAT |
| Reverse | AAAAACCGCTATGAGTTCTCCAACAACTCGAGTTGTTGGAGAACTCATAGCGG |
| shGYS1-3 | Forward | AATTCATTGGCTCGGCTCAACTATCCTCGAGGATAGTTGAGCCGAGCCAATGTTTTTAT |
| Reverse | AAAAACATTGGCTCGGCTCAACTATCCTCGAGGATAGTTGAGCCGAGCCAATG |
| shPRKAA1-1 | Forward | AATTGTTGCCTACCATCTCATAATACTCGAGTATTATGAGATGGTAGGCAACTTTTTAT |
| Reverse | AAAAAGTTGCCTACCATCTCATAATACTCGAGTATTATGAGATGGTAGGCAAC |
| shPRKAA1-2 | Forward | AATTCCATCCTGAAAGAGTACCATTCTCGAGAATGGTACTCTTTCAGGATGGTTTTTAT |
| Reverse | AAAAACCATCCTGAAAGAGTACCATTCTCGAGAATGGTACTCTTTCAGGATGG |
| shPRKAA1-3 | Forward | AATTGCACAGACAATTGCAGTAAATCTCGAGATTTACTGCAATTGTCTGTGCTTTTTTAT |
| Reverse | AAAAAAGCACAGACAATTGCAGTAAATCTCGAGATTTACTGCAATTGTCTGTGC |
| shHIF1A-1 | Forward | AATTCCGCTGGAGACACAATCATATCTCGAGATATGATTGTGTCTCCAGCGGTTTTTAT |
| Reverse | AAAAACCGCTGGAGACACAATCATATCTCGAGATATGATTGTGTCTCCAGCGG |
| shHIF1A-2 | Forward | AATTTGCTCTTTGTGGTTGGATCTACTCGAGTAGATCCAACCACAAAGAGCATTTTTAT |
| Reverse | AAAAATGCTCTTTGTGGTTGGATCTACTCGAGTAGATCCAACCACAAAGAGCA |
| shHIF1A-3 | Forward | AATTGTGATGAAAGAATTACCGAATCTCGAGATTCGGTAATTCTTTCATCACTTTTTAT |
| Reverse | AAAAAGTGATGAAAGAATTACCGAATCTCGAGATTCGGTAATTCTTTCATCAC |
| shGys1 | Forward | AATTCCAACAAGGGAGCTGATATATCTCGAGATATATCAGCTCCCTTGTTGGTTTTTAT |
| Reverse | AAAAACCAACAAGGGAGCTGATATATCTCGAGATATATCAGCTCCCTTGTTGG |
| Scramble | Forward | AATTCCTAAGGTTAAGTCGCCCTCGCTCGAGCGAGGGCGACTTAACCTTAGGTTTTTAT |
| Reverse | AAAAACCTAAGGTTAAGTCGCCCTCGCTCGAGCGAGGGCGACTTAACCTTAGG |