|  |  |
| --- | --- |
| **siRNA** | **5'-3' sequence** |
| si-ASH2L-1 | sense strand | CGAAGACAAUGUUCUCCAA(dT)(dT) |
| antisense strand | UUGGAGAACAUUGUCUUCG(dT)(dT) |
| si-ASH2L-2 | sense strand | GCUGACACAUUUGGCAUAGAU |
| antisense strand | AUCUAUGCCAAAUGUGUCAGC |
| si-SLC7A11-1 | sense strand | GGAGUUAUGCAGCUAAUUA(dT)(dT) |
|  | antisense strand | UAAUUAGCUGCAUAACUCC(dT)(dT) |
| si-SLC7A11-2 | sense strand | CUACUUUACGACCAUUAAU(dT)(dT) |
|  | antisense strand | AUUAAUGGUCGUAAAGUAG(dT)(dT) |
| si-GPX4-1 | sense strand | GGAGUAACGAAGAGAUCAA(dT)(dT) |
|  | antisense strand | UUGAUCUCUUCGUUACUCC(dT)(dT) |
| si-GPX4-2 | sense strand | GGAAGUGGAUGAAGAUCCA(dT)(dT) |
|  | antisense strand | UGGAUCUUCAUCCACUUCC(dT)(dT) |

**Supplementary File 1-Table 1. Oligonucleotides sequences of siRNAs.**

|  |  |
| --- | --- |
| **sgRNA** | **5'-3' sequence** |
| SLC7A11-sgRNA-1 | (mU)\*(mA)\*(mC)\*GAAAAAUAAGCCCAACGGUUUUAGAGCUAGAAAUAGCAAGUUAAAAUAAGGCUAGUCCGUUAUCAACUUGAAAAAGUGGCACCGAGUCGGUGCU\*(mU)\*(mU)\*(mU) |
| SLC7A11-sgRNA-2 | (mA)\*(mU)\*(mG)\*AAUUGAUUGGUACACAUGUUUUAGAGCUAGAAAUAGCAAGUUAAAAUAAGGCUAGUCCGUUAUCAACUUGAAAAAGUGGCACCGAGUCGGUGCU\*(mU)\*(mU)\*(mU) |

**Supplementary File 1-Table 2. Oligonucleotides sequences of sgRNAs.**

|  |  |
| --- | --- |
| **PCR primers** | **5'-3' sequence** |
| SLC7A11-ChIP | Forward | CTCAGCTTCCTCATGGGCTT |
| Reverse | GCTGAGTAATGCTGGAGGCT |
| SLC7A11-MeDIP | Forward | CTCCTGTTCCCATGTGTACCAA |
| Reserve | AGTTCTCTAGATGAGTGTCAAACCA |

**Supplementary File 1-Table 3. PCR primers sequences for ChIP and MeDIP tests.**