Table S1

Table S1. Sequences of synthetic DNA oligonucleotides used in this study for constructing siRNA validation system

Name	Synthetic DNA oligonucleotides
siEGFP	5′-AGCTCAAAAA**GCAAGCTGACCCTGAAGTTC**TTTTTA GTTTTT**CGTTCGACTGGGACTTCAAG**AAAAATCTAG-5′
shEGFP	5′-GATCCCC**GCAAGCTGACCCTGAAGTTC**ttcaagaga**GAACTTCAGGGTCAGCTTGC**TTTTTGGAAA GGG**CGTTCGACTGGGACTTCAAG**aagttctct**CTTGAAGTCCCAGTCGAACG**AAAAACCTTTTCGA-5′
siLuc	5′-AGCTCAAAAA**GACATCACTTACGCTGAGTACTTCGA**TTTTTA GTTTTT**CTGTAGTGAATGCGACTCATGAAGCT**AAAAATCTAG-5′
shLuc	5′-GATCCCC**GACATCACTTACGCTGAGTACTTCGA**ttcaagaga**TCGAAGTACTCAGCGTAAGTGATGTC**TTTTTGGAAA GGG**CTGTAGTGAATGCGACTCATGAAGCT**aagttctct**AGCTTCATGAGTCGCATTCACTACAG**AAAAACCTTTTCGA-5′
sisAg1	5′-AGCTCAAAAA**CCTGCACGACTCCTGCTCA**TTTTTA GTTTTT**GGACGTGCTGAGGACGAGT**AAAAATCTAG-5′
shsAg1	5′-GATCCCC**CCTGCACGACTCCTGCTCA**ttcaagaga**TGAGCAGGAGTCGTGCAGG**TTTTTGGAAA GGG**GGACGTGCTGAGGACGAGT**aagttctct**ACTCGTCCTCAGCACGTCC**AAAAACCTTTTCGA-5′
sisAg3	5′-AGCTCAAAAA**GGTATGTTGCCCGTTTGTC**TTTTTA GTTTTT**CCATACAACGGGCAAACAG**AAAAATCTAG-5′
shsAg3	5′-GATCCCC**GGTATGTTGCCCGTTTGTC**ttcaagaga**GACAAACGGGCAACATACC**TTTTTGGAAA GGG**CCATACAACGGGCAAACAG**aagttctct**CTGTTTGCCCGTTGTATGG**AAAAACCTTTTCGA-5′
sip53	5′-AGCTCAAAAA**GACTCCAGTGGTAATCTAC**TTTTTA GTTTTT**CTGAGGTCACCATTAGATG**AAAAATCTAG-5′
shp53	5′-GATCCCC**GACTCCAGTGGTAATCTAC**ttcaagaga**GTAGATTACCACTGGAGTC**TTTTTGGAAA GGG**CTGAGGTCACCATTAGATG**aagttctct**CATCTAATGGTGACCTCAG**AAAAACCTTTTCGA-5′
siMat3	5′-AGCTCAAAAA**GAATTGTCACCTACAGAAT**TTTTTA GTTTTT**CTTAACAGTGGATGTCTTA**AAAAATCTAG-5′
shMat3	5′-GATCCCC**GAATTGTCACCTACAGAAT**ttcaagaga**ATTCTGTAGGTGACAATTC**TTTTTGGAAA GGG**CTTAACAGTGGATGTCTTA**aagttctct**TAAGACATCCACTGTTAAG**AAAAACCTTTTCGA-5′
siMat6	5′-AGCTCAAAAA**GGCATTCAGAAGTTATATG**TTTTTA GTTTTT**CCGTAAGTCTTCAATATAC**AAAAATCTAG-5′
shMat6	5′-GATCCCC**GGCATTCAGAAGTTATATG**ttcaagaga**CATATAACTTCTGAATGCC**TTTTTGGAAA GGG**CCGTAAGTCTTCAATATAC**aagttctct**GTATATTGAAGACTTACGG**AAAAACCTTTTCGA-5′
siLMP1-2	5′-AGCTCAAAAA**GACACCACCTGCTCGTGAG**TTTTTA GTTTTT**CTGTGGTGGACGAGCACTC**AAAAATCTAG-5′
shLMP1-2	5′-GATCCCC**GACACCACCTGCTCGTGAG**ttcaagaga**CTCACGAGCAGGTGGTGTC**TTTTTGGAAA GGG**CTGTGGTGGACGAGCACTC**aagttctct**GAGTGCTCGTCCACCACAG**AAAAACCTTTTCGA-5′
siLMP1-4	5′-AGCTCAAAAA**GTTCAGCTAAGCTACTATG**TTTTTA GTTTTT**CAAGTCGATTCGATGATAC**AAAAATCTAG-5′
shLMP1-4	5′-GATCCCC**GTTCAGCTAAGCTACTATG**ttcaagaga**CATAGTAGCTTAGCTGAAC**TTTTTGGAAA GGG**CAAGTCGATTCGATGATAC**aagttctct**GTATCATCGAATCGACTTG**AAAAACCTTTTCGA-5′
siAKT1-1	5′-AGCTCAAAAA**GCGACGTGGCTATTGTGAA**TTTTTA GTTTTT**CGCTGCACCGATAACACTT**AAAAATCTAG-5′
siAKT1-2	5′-AGCTCAAAAA**CGCTACTTCCTCCTCAAGA**TTTTTA GTTTTT**GCGATGAAGGAGGAGTTCT**AAAAATCTAG-5′
siAKT1-3	5′-AGCTCAAAAA**CTTCCTCCTCAAGAATGAT**TTTTTA GTTTTT**GAAGGAGGAGTTCTTACTA**AAAAATCTAG-5′
siAKT1-4	5′-AGCTCAAAAA**GTGGACCACTGTCATCGAA**TTTTTA GTTTTT**CACCTGGTGACAGTAGCTT**AAAAATCTAG-5′
siAKT1-5	5′-AGCTCAAAAA**CACCACCTGACCAAGATGA**TTTTTA GTTTTT**GTGGTGGACTGGTTCTACT**AAAAATCTAG-5′

To construct this reporter-based siRNA validation system, two complementary sense- and antisense-oligonucleotides were annealed to form a short synthetic DNA fragment with two unique restriction enzyme *Hin*dIII and *Bgl*II compatible ends, which could be used to insert into the *Hin*dIII/*Bgl*II-digested targeting reporter and triggering siRNA expression vectors simultaneously.