

**Table S1.** Nucleotide sequences of siRNA and plasmid.

siRNA/plasmid name	Application	Oligonucleotide sequence	Source
PHLDB2-siRNA	siRNA1	Sense: 5' -GAUCUACCUCAUAGCGUAAUATT-3'	Kidán
		Antisense: 5' -UAUUACGCUAUGAGGUAGAUCTT-3'	
PHLDB2-siRNA	siRNA2	Sense: 5' -GAGGAUGCUCAGAGGUUAUAATT-3'	Kidán
		Antisense: 5' -UUAUAACCUCUGAGCAUCCUCTT-3'	
Control-siRNA	siRNA	Sense: 5'-GCAUCGAGUCUAGCGUAAAUU-3'	Kidán
		Antisense: 3'-UCGUAGCUCAGAUCGCAUUUA-5'	
PHLDB2-EGFP plasmid	Plasmid	5'- TCTAGAGCCACCATGGAAGAGCATAGCTACATACAAAAGGAGCT AGATTTACAAAATGGTAGCTTAGAGGAAGACTCTGTGGTGCATTC TGTTGAGAACGATTCCCAAACATGATGGAGAGCCTCAGCCCAA AGAAATACTCTTCCAGTCTGAGATTTAAAGCCAATGGAGACTATT CTGGCTCCTATTTAACCCTCTACAACCTGTGCCGTCAAAGAGAA GCCCTTCTCCTTTGGGAACCAGTGTGAGAAGCAGCCCTCCTTAG CCAAAATCCAGGGAAGCAAGCAGTTCTCTTATGATGGAACGTGAC AAAAATATTCTATGAAACCTCCAACCTTTACTCAACTACTACA TCCTCCCTCAGTGGATATCCACTTGGAAGAGCAGACTTTGATCAT TATACTGGCCGGACAGTGAAAGGGCCTTGAGGCTCTCAGAGAA GCCTCCCTATTCCAAATATAGCTCAAGGCATAAATCGCATGACAA TGTCTACTCTCTTGAGGGCTGGAAGGTCGGAAGGCATCTGGCTC GCTCTGGCCATGTGGAATGGAAGTCCCTGAGTGATGCTGGCCC GCCTCCTATCAGCAGATCGGGAGCCGCAAGCATGCCTTCAAGCCC AAAGCAAGCCAGGAAAATGAGCATTAGGACAGCCTGGCGCTTC AACCCAAAGTTAACTAGACACAAGGAGCTTGCATCTGAAAACATC AATTTGAGAAGTAGGAAGTACTCCAGCAGCAGCCTGAGTCACAT GGGAGCCTACAGCCGATCACTTCCAGGTTGTACAGAGCCACAG AGAACCAGCTGACACCTCTCAGCTTGCCTCCAAGAACTCTCTGG GCAATTCCAAACGAACAAAACCTTGGGGAAAAGGATCTACCTCAT AGCGTAATAGACAATGACAATTACCTTAATTTTTCTTCTTTGAGCT CAGGGGCTTTACCTATAAAAACCTCTGCTTCTGAAGGCAATCCTT ATGTAAGTTCTACCCTCAGTGCCCTGCCAGTCCACGAGTGGCTC GGAAGATGCTTCTGGCCTCCACCTCCTCTGTGCCTCTGATGACTT TGATCAGGCTTCATATGTGGGGACAAACCCGAGTCACTTCTCT TGCTGGAGAGTCAGACAGAGTTTTTTCGACCAGGAGGAACCTTCTC TTGTGGATCTGTGGAATTTGATGAGGCAGATTTGGAAAGCCTCAG ACAGGGCGGAGGAGGATCTGGAGGAGGAGGTTCTGGAGGAGGA GGATCTATGGTGAGCAAGGGCGAGGAGCTGTTACCGGGGTGGT GCCCATCCTGGTCGAGCTGGACGGCGACGTAACGGCCACAAGT TCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAG CTGACCCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTGCCC TGGCCACCCCTCGTGACCACCCTGACCTACGGCGTGCAGTGCTTC AGCCGCTACCCCGACCACATGAAGCAGCAGACTTCTTCAAGTCC GCCATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAG GACGACGGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGG CGACACCCTGGTGAACCGCATCGAGCTGAAGGGCATCGACTTCA AGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTACAAC'TAC AACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACGG CATCAAGGTGAAC'TTCAAGATCCGCCACAACATCGAGGACGGCA GCGTGCAGCTCGCCGACCACTACCAGCAGAACACCCCATCGGC GACGGCCCCGTGCTGCTGCCGACAACCACTACCTGAGCACCCAG TCCGCCCTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGT CCTGCTGGAGTTCGTGACC GCCGGGATCACTCTCGGCATGGA CGAGCTGTACAAGTAAGGATCC-3'	Kidán

siRNA, small interfering RNA.

**Table SII.** Nucleotide sequence of the primer.

<b>Primer name</b>	<b>Application</b>	<b>Oligonucleotide sequence</b>	<b>Source</b>
PHLDB2	qPCR	Forward: 5'-CTCGTCCTTTGACACGCT-3'	Generay Biotech Co., Ltd.
		Reverse:5'-ATCCTCGGCAGGTCTTCT-3'	
SYT1	qPCR	Forward: 5'-GAAAGTGCAGGTGGTGGT-3'	Generay Biotech Co., Ltd.
		Reverse:5'-ATAGGTCGCCTGGGGTT-3'	
MYO1B	qPCR	Forward: 5'-GAGAGGGATTTTCAGCAGGT-3'	Generay Biotech Co., Ltd.
		Reverse:5'-CCGCCAAGACAGACTCA-3'	
CORO2B	qPCR	Forward: 5'-AGCTGCGTGTGATTGAGC-3'	Generay Biotech Co., Ltd.
		Reverse:5'-TGGAGACCCCTGTCGTG-3'	
CDH13	qPCR	Forward: 5'-GCCTCTGGAAGTCATTGTG-3'	Generay Biotech Co., Ltd.
		Reverse:5'-ATTATCGGTGGCTGGGT-3'	
DDX21	qPCR	Forward: 5'-AGATGCTCCTAAGCCCAAG-3'	Generay Biotech Co., Ltd.
		Reverse:5'-GGGTTACAGTCCGGTTCA-3'	
PKLR	qPCR	Forward: 5'-GTCCACTTATGCCGAGGAG-3'	Generay Biotech Co., Ltd.
		Reverse:5'-ACGGAGCTTTCCACTTTCA-3'	
GADPH	qPCR	Forward: 5'-GGAGCGAGATCCCTCCAAAAT-3'	Generay Biotech Co., Ltd.
		Reverse:5'-GGCTGTTGTCATACTTCTCATGG-3'	

qPCR, quantitative PCR.