



Table S1. The primers and RNAi efficiency in this study. The primers used for qPCR, RNAi are highlighted in red and yellow, respectively. The primers used for RNAi targeting the second non-overlapping region are highlighted in green. The sequences of FHD were boxed.

>NIFoxN1

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GTTAACTGA

Primers for NIFoxN1.

Primer usage	Direction	Primer sequence (5'–3')	RNAi efficiency (%)
qPCR	F	CAAGATGGCGGCGCTCGTGAC	92.05 ± 2.82
	R	AGCTGCGGTTGTGGCGTTACTGT	
RNAi	F1	T7-AGTGGCAAGCAAGCAGC	
	R1	T7-GGTTTCATCGCCACAGA	
	F2	T7-AGGAGGATGAAGATGAGGAT	90.02 ± 4.40
	R2	T7-GCTTAACACAGACGTAGTTG	

>chr02.0345

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Primers for chr02.0345.

Primer usage	Direction	Primer sequence (5'-3')	RNAi efficiency (%)
qPCR	F	CACGAGCAGTTACGATGT	88.24 ± 0.81
	R	ACAGCCTCACCAGAATACT	
	F	T7-GCAAGCGATCAACTTCTG	
	R	T7-ACAACCTCACCACACCAAG	

>chr03.1220

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Primers for *chr03.1220*.

Primer usage	Direction	Primer sequence (5'–3')	RNAi efficiency (%)
qPCR	F	ATGCCGACCTTATCTGTTG	98.32 ± 4.56
	R	CTGGTTGGTAGTGCTTGG	
	F	T7-GCTTGGTCCGTCATCTTA	
	R	T7-GCGATTCCGTGTAGTCTT	

>*chr03.1450*

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Primers for *chr03.1450*.

Primer usage	Direction	Primer sequence (5'–3')	RNAi efficiency (%)
qPCR	F	AAGCCGGACGAGGTGGAGGT	96.6 ± 3.82
	R	AATGCGGATGTTTCGAGTATGGA	
	F	T7-GGAGAAGAAGAAGGAGAAGG	
	R	T7-GTCATCATCATCGCCATCT	

>*chr04.0290*

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Primers for *chr04.0290*.

Primer usage	Direction	Primer sequence (5'-3')	RNAi efficiency (%)
qPCR	F	AACAAGTGGAAGCGAGAA	85.87 ± 1.04
	R	ATGTGACTGAAGAGGATGAG	
	F	T7-GGCAGCAACAACATCAAC	
	R	T7-GCACCAGACTCCTTGTAGTT	

>*chr08.0761*

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Primers for *chr08.0761*.

Primer usage	Direction	Primer sequence (5'–3')	RNAi efficiency (%)
qPCR	F	TCATCACCTTCTCCTACGA	90.32 ± 6.64
	R	TTGAGTCCGACCTTGTTG	
	F	T7-GCTCGGTGTCCTCATAAC	
	R	T7-GGCAAGAGATACTTCAAGGT	

>*chr08.1144*

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Primers for *chr08.1144*.

Primer usage	Direction	Primer sequence (5'–3')	RNAi efficiency (%)
qPCR	F	GCCAAGAACCTTACCAAA	89.98 ± 4.91
	R	ACCAACTCCACTACATCCT	
	F	T7-CTGGTATTGCCGCTGTTA	
	R	T7-CTCCTGCCTGATGTCTTG	

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>chr11.0845
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Primers for *chr11.0845*.

Primer usage	Direction	Primer sequence (5'-3')	RNAi efficiency (%)
qPCR	F	GACCGGAGTGCCTTACAAAATC	91.40 ± 2.53
	R	TCCTCGAAAGTGGCCCTGAAC	
	F	T7-TGATGATGATGACGATGATG	
	R	T7-CAGACTGCCGACTATGAG	

>chr13.0081

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Primers for *chr13.0081*.

Primer usage	Direction	Primer sequence (5'–3')	RNAi efficiency (%)
qPCR	F	GAATTGTTGACTCTGCCTTC	96.40 ± 1.94
	R	TCCTGTTCTGTAGTGTTAG	
	F	T7-AATGAGCCGCTAGTAATCG	
	R	T7-GACATCAATAGCAGCCAATC	

>*chrX.0458*

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GTTGGTGAAGAAAGCAACTATTGTTTCACTGACACGACAAATTTGGAGAAGTATGTCGGA
TCAAAATCACCCATCCAATCGTTTACTTGGCTCAAAAATAACCCAAATCTATACTTGAGTGC
CAAAATGGACCGACAATCATCAATATACCGCAAGATCCAAAATATGATAAATGGTTGAT
GAAATTGTCGACCACAGAAAATGATAATCAATATGTGGAAACGAAATTCCTGCGAACCAG
TGAGCCAATGTTTCCAGCTTCAGTCCTTCATATGAGAACAAAGGATGATTGCACCGAAAAT
ACACTGTTATACCTCGAAAATGCAAGCTATACTTTTTCACAGATGACTACCATCTGCAGTGG
ATTAGGAAGTAAGAAAAAATAG

Primers for *chrX.0458*.

Primer usage	Direction	Primer sequence (5'–3')	RNAi efficiency (%)
qPCR	F	GGCACCTCAATCATCCAA	90.22 ± 3.35
	R	GGCTCCATCAGAATCCATAA	
	F	T7-ATCTTATCCACACGCTGAG	

R T7-GTGAATATGGTGATGTAGTCTC

>chrX.1560

ATGACGGAGATCCGGCAGCGATTTCGAAAATCACGAGGAAGAAATCGCCGATCTCGGAGAA
CAGGAGAAACCTGTCAACAAGGAGGAACCGGCACCAGTTGGTGATGAGTTGATGGTTGCC
TCTGGTGAAGGGGACATTGTTTGCAACGATGACGTGCAGCCTGACTTGCAACCCGAGAACG
AGCACATCATGACCTGCGGCGAGAACATGGGAAGTTCCATTTTCGGAAAAGGAAATGATG
AGAAAAAGCCTGAATGTTCTTTGAAGAAAAGAAGATTGGCAGAAGAGGCCGATG**GCAGAG**
AACGAGAAGAGGTCGAGAATTGAGGAGCCAATGGCTACTATGAACCACCATGTTACTGAG
GCACCAGTTGGTGATG**AGTTGATGGTTGCCCTCT**GTGAAGGGGACATTGTTCAACAACGATG
ACGCGCAACCCGAGAACGAGCACATCATGACCCGCGGCGAGAACGAAGAAGAACAAGA
GATCATGCAGAGATCACATTGCAGGTATCTATAGCACTCCAAAGACTCGGAGATTGAGGAA
GACTTGAGGAGGCTCAACAAGAAGATACAGAT**GAGGAACATTATGAAGAGGAAG**ACATT
AATGTCAGCGAAAAGTGAAGATGAGGACGACCTTGAGGTTGATGATGATGATGATGATGAT
GATGATGATGATGATGATGAAGACGACGACGAAGAAGACGATGAAGAAGATGAAGATGA
TGATGATGATGATTACAATGTTAAAGATGATGTCAAAAACATAATCCATCGATTTACGTATT
TGCTGGGAAATGATATTAGAAGCTTAATGCTATACCTTTCTATATTTAACGGTTTTGAGAAG
AATACTACTACAGCACTGCACATCAGCGCTTGGCTGGGACATGAGACATTGGCACTTAGAT
TGTTGAAGAAAGGAAGAAATGTTGATGTCAATGCTCGAGATATTGGAGGGCGAACTGCTCT
CCACATGGCTGCCTGGAAAGGCCACAGTGAAATCATTCAAATGCTCCTGGAACACGGCGCT
CACCCGTTG**GTCATCAGTCACCAAGCA**GCTACTCCTTTGGCGATTGCTATTGAGGAGGGAC
ACAATGACTGCATAAAAATACTTGCGACAGCAGGTGGCTTCGGCGAGGTTGAGCAAGAGA
ATCTAAGCAATTCTGGGATATTGTTTGAAAAGCCCCACCTATGGTGA

Primers for *chrX.1560*.

Primer usage	Direction	Primer sequence (5'–3')	RNAi efficiency (%)
qPCR	F	GCAGAGAACGAGAAGAGG	87.73 ± 1.08
	R	CAGAGGCAACCATCAACT	
	F	T7-GAGGAACATTATGAAGAGGAAG	
	R	T7-TGCTTGGTGACTGATGAC	

>NIKrt1

ATGAAGGTTCTTGTTTGCACCTCTGTTCTTGGCAGCCGTTGTGCTGGCCGATGAGAAGAAAGT
CGATGACGTAGTCGCGGCTGAACCAAAGTCAGATTCTGTGGCCGCTGAGCCAGCAAA**GGA**
CACCAAGACTGAGAAGAGAGGACTCTATGGACTTGTTACGGATATGGAGGCGGATACAG
CAGCGGTCTCTCTCACGGTCTTGATACAGCAGCGGTCT**CTCTCACGGTATCGGCTA**CAGTA
GCGGTCTCTCCCATGGTATCGGCTACAGCTCTGGTTACTCCGGTCTGAGCGGTCTTAGCCAC
GGAGGCTACGGAAGCTATGGATCAGGCTATGGAAGCTACGGATCAGGCTACGGATTGGGC
TACGGATCAGGCGGCTACTCGCACGAAGGCTACGT**TAAGGCAGTGACCATCCA**CAAGGAG
GTCCCCGTGCCACATCCTTACCCTGTACCTGTGCCAGTTGAGAAGCATGTGCCATACCCTGT
CAAGGTCCCAGTCGCTGTGCCAGTCGACAGACCTTACCCTGTTTATGTGCCAAAGCCTTACC
CCGTGCCAGTTGAGAAGCCAGTTCCCTACCCAGTTGAGAAGCCTGTACCTTACCCAGTCAA
GGTTCCAGTGAAGGTACCAGTTGCCAGCCATACCCCGTCGCCGTTCCCAAGCCCTACCCC
GTGCACATTGAGAAGCCAGTAGCCGTTCCAGTTCCCTACGCCAGTCTACGTTACAAGCCAG
TTCCCGTTGTCGTCAAGAGTCACGGTTATGGAGGTGGTTATGGAAGCTACGGAGGTTATGG
AAGTGGCTATGGATCTTATGGAGGAGGTCACGGTAGCTACTCAAGCTACGACTCTGGTCTC
AGCTACGGAGGTTACTCCGG**TGGATACGACAGCGGTTA**TGGCAGCTACCACCATTAA

Primers for *NIKrt1*.

Primer usage	Direction	Primer sequence (5'–3')	RNAi efficiency (%)
qPCR	F	GGACACCAAGACTGAGAAG	
	R	TAGCCGATACCGTGAGAG	

F	T7-TAAGGCAGTGACCATCCA	93.93 ± 0.83
R	T7-TAACCGCTGTCGTATCCA	

>NIKrt9

ATGATCCGTATAAAGTTACAGATTTTCGCAGTAGCTCTTCTCGCTCTCTCTGTTCTGGCAGAG
GAGAAGAAAGCCGAGAAGAGAGGAGTTCTGAGCGGACTCCATGGAGCTAA **CAGCATTGG**
AGGAGGAAGTTACGGAGGAGGAGGCTATGGCGGAGGTTACTCCGGGGGTCACGGAGGAG
GTTACAGTCTGGGAGGAGGAGTGAGCAGTTTCGGAGGAGGTCATGGATTCTCAGGAGGTTT
GGGAGGAGGATTGGGAGGTATCGCTTATAGCGGACATGGAGGAGGAGGTTCAAGATTGG
AGGAGGATCAGGATTCGGAGGAGGACTTGGTGGTCTAGGAGGTGGTCTAGGAGG **AGGACT**
AGGAGGAGGACTAGGAGGAGGCCTAGGAGGAGGTGCCATCACCGTGAACACAGTCTCCC
AACCAGTACCAGTTCAGTTCCCAACCAGTCCCGTCACAGTTACCCGCACAGTTCCCGT
GCCACAACCCTACCCAGTAC **CTGTATCTGTTCTCGCC**CAGTAGCCG **TCCAGTTCCTCAGC**
CATACCCGGTCACTGTAAACCGTCCATACCCAGTTCCCGTTGAACGTCCCTACCCCGTCAGA
GTTCCCCACCCAGTACCCGTTCCAGTTCCCTACCCCGTTCCAGTGTCAAGTTCCCCAGCCGTA
CCCAGTAAGTGTAAACCGACCAAGTTCCCGTATCAGTTCCCTCAGCCGATTGTGGTTCCTCAAC
CAGTTCCAGTGGTGGTGTCTTCGGGAGGCGCTGGAGGTGCTGGAGGTTTCTCGAGTGGATT
GGGGGCGGACTTGGAGGCGGACTAGGAGGTGGACTTGGAGGCGGTCTTGGGGGCGGTAC
GGACTTGAAGCGGACTCGGAAGCGGACTTGGAGCTGGCCTGCTCTCTGGCGGTACCGTG
GAAGCTACAGCAGTGGAGCACTCCTCTCCGATATGGAGGTGGTTATGGAGGATACTCAGG
TGCTCTATCCGGTGGACACGGAGGATACTCAGGTGGCCTTTCCAGTGGACATGGAGGATAC
TCAGGTGCTCTATCTGGTGGACACGGAGGATACTCAGGTGGTCTATCCAGTGGACATGGAG
GGTACGTAAGCAGCAGTCTAGGATCATATGGATCGGGATCCTATGGATCAGGATCTTACGG
AGGATCCAAGGGCTACTCAAGTGGAGGTCACGGAGGAGCGACTTCCTACTCGTCGACTACC
TTTGGGCATGGAGGTAGCAGCGGAAGTGGATACGCTTCCGGTTTCAAGGGATATCACTAA

Primers for *NIKrt9*.

Primer usage	Direction	Primer sequence (5'-3')	RNAi efficiency (%)
qPCR	F	AGGACTAGGAGGAGGACTA	98.32 ± 2.47
	R	ATGGCTGAGGAAGTGGAA	
	F	T7-CAGCATTGGAGGAGGAAG	
	R	T7-GGCGAGGAACAGATACAG	

>NIKrt10

ATGGTAAGAGGATGGACTGCCGGGGTCCCGTCTCTGGCACTGCTAGCGGCTACAGCATGGG
CCAATCCCACGCCTGCGCACTTCCACATCCAGGGGCCACACTACACGCACTACCAGTCGCA
GGAGGTGGCACTCAGCACTACCAGGAGCCCCACCAGGCGCACTACCAGGAGTCGCCGCA
CTACCAGGAGCCACAGGAGTCGCAGCAGCACTACCAGCGACAGCAGCCGCCCAAGCCGC
CACCCAATTCCACCAGTCCCAGTCCATATCGCAGGAGGTTTTGCAGCCGCAGTATACCAGG
GTGGAATCACCTCCCTATCTGCAAAAGACTCTCCGAAAGGTCTATCTAAAAAGGCCAAC
ATCAACAGCTGCATCGGTTACAAATGCAGTATTTGCAGGAACTCGAAGCAGATGTTGTCAA
CGCCGTACAGACGAG **AGGTATAGCCGAGACAATAA**AACTGGAGCAGAAATTCCAGGAAG
AAATCCTAGCTGCAGCCGTTGAGACCCTGACGAAAAACAAGGGAAATCCCGAGAAGCAG
GCGCAGGATTTGAAAGAAATAGAAAATCTTGTGAAGAGGGACAAGAGAGCTGTGCAAGTA
CTCACTACTCTACTAGGATCGAGCAGTGGAACAAGCTGGGAGGAGGCGGTGCTGGAGGC
GATGATGCCGCGCAGCTCTGGCTCGGG **GACCATCCTCAACCTCTT**GGGTCCACTCTTGGGTAG
CAGTAGTGGAGGGGGTACAGGAGGAGATGGCGGGGATGCTGGATCTGGTTCAGGGTCGAT
TTTGAGTATTGCTGGCCCACTTTTGGGCACTAGCAGTGGGGGTGGAGGAGG **TGGAGGAGTT**
GAAGGAGAATCAGCTGGTGGCTCAGATTCAGGATCAATTCTCAACCTAGTTGGGCCCTCTC
TTGGATCAAGCAGTGGTACACAATCAGATGCAGATGGTGTGTTGGGGAGGGAGGAGGTGGTT
CGAATCTGTTGAGTGTGCTGAGCAGTCTGCTAGGCAGTAGCAGTGGAGGCGGAGGCGGCG
GGGGTGGTGACGCAGAATCAGCTGGAGGTGGTGGCTCAGATTCAGGCTCTATTCTGAATCT

GATTGGACCTCTTTTGGGTAGCAGCAGTGGTGGTAGCTCCAGTGGCGGGGGAGGAGATGTG
 GAGGGAGGAGGAGGAGGGGGATCCGATTCAGGCTCCATCCTGAATTTGGTTGGCCCACTTT
 TGGGCAGCAGTAGTGGTGGCTCCAGTGGTGGGGGAGGTGATGGGAGTGGCAACGCGGCTG
 GTGGATCAGACTCCGGGTTCGATTCTGAATCTGGTTGGGCCACTCCTTGGCAGTAGCAGTGG
 CGGCAGTTCGTCCGGCGGTGGTGACGCTAGTGGCGGTGGAGGAGGCGGATCAGACTTATTT
 GGACTTAGCAACTCAAGCGGAGGAGCAGGTGGATCTGTTAATGGCGCCAAAGTTGGAATT
 ATTCAGCAAAAACACTACAATATTTCTAAGGCTAAAGTTCGCAATCTTCACGAAAATCCTCA
 ACACTCTGACAGGAGTTTTAGGTTTCATCATCAGGTGGAACCTCAAGCAGTGCCCATCCATGA
 ACTCAAGTATCCATCGTAA

Primers for *NIKrt10*.

Primer usage	Direction	Primer sequence (5'–3')	RNAi efficiency (%)
qPCR	F	GACCATCCTCAACCTCTTG	92.99 ± 0.89
	R	TTCTCCTTCAACTCCTCCA	
	F	T7-ATGGTAAGAGGATGGACTG	
	R	T7-TTATTGTCTCGGCTATACCT	



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