

Supplementary Table S1. The sequences of primers for qPCR

Gene name	Supply Reference	Forward primer	Reverse primer
<i>Actin1</i>	[26]	ACCATTGGTGCTGAGCG TTT	CGCAGCTTCCATTCCTAT GAA
<i>Ubi</i>	[25]	TGAAGACCCTGACTGG GAAG	CACGGTTCAACAACATC CAG
<i>RGB1</i>	[25]	TGGTCTTTCTTCTGATG GGAGTG	CACAAGGAACTTACAAC AACACAGG
<i>SMG1</i>	[26]	TGCTATGTACGTCGCCA TCCAG	AATGAGTAACCACGCTC CGTCA
<i>GS5</i>	[26]	AGTGGACTGCTTCCAG GGAAG	CACGCAGTACCGAGAAC TGA
<i>GS3</i>	[26]	GAACTCCTGATCCATTC ATAACGATT	CAAACAGCGAAACTTCT TCAAGAA
<i>GW8</i>	[26]	AGGAGTTTGATGAGGC CAAG	GCGTGTAGTATGGGCTC TCC
<i>NR1</i>	[65]	CCAATTCTTTCATCGTG TTCT	CATGCAGCATTTTCGTTTC T
<i>NRT1.1</i>	[66]	CAATTGGACCTATTTTCG TAGCC	GCAGAAATGGTAAAACC CC
<i>NRT2.3</i>	[66]	CGCTGCTGCCGCTCATC CG	CCGTGCCCATGGCCAGA C
<i>NiR</i>	[66]	TGGCTCATCGACGAAC TTGGAATG	TCCCTCCTCTGCCATTTC TTGTC
<i>AMT1</i>	[66]	AGCGAAGGAAGAAATC ACG	CCAAACAGAAACTGGCA ATC
<i>ARE1</i>	[67]	TGCTGTCATCCTTTCTC CAC	CTTGATACGTCTGAGCAT CTCG

<i>NLP4</i>	[66]	AGTCGCCATTCTGACGA GAACT	TGGGTACTCCAGTTTAGT GGAG
<i>PHT1;1</i>	[68]	CATGTCGCTCGAGGTTA TCTC	AGAGATGACACCAATGG TTAGC
<i>PHT1;4</i>	[68]	ATGGATCCAATTCAGC GACATTPCTC	TACTGCAGTGGTACACTA GCAGAACCAGAA
<i>AKT1</i>	[69]	GCTTCCAAAGGAAACG AGCAA	GCAAGCGTATAAGCCCG TGTC
<i>HAK5</i>	[69]	CATTGTGGACTATTTTG AAAGAA	GGAGAACTACAGAAAA GCCAATC
<i>HAK8</i>	[69]	CATTGAAGGACTATTTG AA	AGAACTTACAGAAAGCC A
<i>DWF4</i>	[26]	TCGATGCTGGACATCCT GGG	CTGCCTTGAGAGCGTCA GAG
<i>BZR1</i>	[26]	CTTCACGGGGCTCCGG GCGCTCGGGAAGTAC	GGAGGAACGGGAGGAG GCAGGAGGCGCTCG
<i>CPD</i>	[70]	TTACCGCAAAGCCATCC AA	TCATCACCACCACCGTC AAC
<i>DWF1</i>	[71]	ATGGCAGATCTGCAGG AGCC	TTACGCCTCATCAGCGT AGGC
<i>CYP90 D2</i>	[70]	ATGGCGAGGCTGATACA GAGG	CTAGTCGTCGTCCTCCTT GGC
<i>GBSSI</i>	[72]	GATGCGTTTCAGCCTTC TTTG	AGTATGGGTTGTTGTTGA GGTTTAG
<i>ISA1</i>	[73]	GTGGCCTTCTCCACGAA AGA	CTCTGGGAGTCCAACAA CCG
<i>SBE1</i>	[74]	TGGCCATGGAAGAGTT GGC	CAGAAGCAACTGCTCCA CC
<i>SBE2</i>	[75]	ATGCTAGAGTTTGACCG	AGTGTGATGGATCCTGC

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<i>Nramp5</i>	[35]	CAGCAGCAGTAAGAGC AAGATG	CAGCAGCAGTAAGAGCA AGATG
<i>HMA2</i>	[35]	GCAGATCAAGTCACCC CATGG	GCCATCACCAACCATCA GCGT
<i>HMA3</i>	[35]	TCCATCCAACCAAACCC GGAAA	TGCCAATGTCCTTCTGTT CCCA
<i>IRT1</i>	[58]	ATGAGGTCGGTGCTCGT CT	CGGGCTGTTGTCCCTGTA
<i>LCD</i>	[36]	CTATGATTTTCATCGGATC TACCGACTG	CTAAGAACCAAAAACTC CTAACAGGAG

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