Table 1. Primers for the ABC transporter genes and 18S gene for RT-qPCR.

Gene Name	Forward (5′–3′)	Reverse (5′–3′)
NlABCA1	ATAATGCCCGGCGAGTATGG	ATTACGCACTGACAAGCCCA
NlABCA2	GGAATGTGCCTAGTCGGCAA	CGTCGGCTCGTCAAGGAATA
NlABCB6	GGAGCGGTCGAGTTCAGAAA	GTTCTGCCCATCCACCAGAA
NlABCB7	CAAGGGCAGGACGTCGATTA	GTTGTACAGTGAGTCGGGCA
NlABCB8	AGGAGAGAACTGGCGAGCTA	TATAGCGACACCACACAGCC
NlABCB10	GCGGGAGAAATGGAACCTCA	CAAAATTGCACAGTCCGCCA
NlABCC2	TGCATATTCGCGCACTACCT	AACGGGATGGCAACCAGTAG
NlABCC3	CAATCTACATGGGCGCGTTG	CCATCGTATACACGTCGCCA
NlABCC4	AGGGCTTGCCATTGCCTATT	GGGGCTTCGAAGTAACACCA
NlABCC5	TGCACGCGTACAGCAGGTTT	GACACGGGCAGATCGTAGAG
NlABCD1	GGCTTTGTCATTCAGGTCGC	GTCGAAGAGTGGCTTGGTGA
NlABCD2	GTTGCTGTTTCGAACGGCAT	TTCGGTGACTCTTGCCGTGA
NlABCD3	ATTGGGGTAGTCGGCTCAAG	GCTCTCAAACTGCCAGAAAGG
NlABCE1	GCCTCGCAGTAAAGCAACAG	TACGCACAACAGGACAGGAC
NlABCF1	AACTCTCGTGTCGCCATTGT	CATCAGGTATTCGGACGGGG
NlABCF2	CGCCAGGCTCAAAGTAAGGA	CTGGACCATGATGACCGGAG
NlABCG1	ACCAGCCGTTTCAGTTCCTTTG	GCCGCCGTAGATGGACGATATG
NlABCG2	TGTCCAGGAGAGGAGCCGTTAG	CATTCTGGTGAGCGTGGTCAGT
NlABCG3	AGACAGGCATCGTTGCACCAGC	CGGCTCGTGAGTTGTCAGGTAC
NlABCG6	GGATGAGCCAACTACAGGACTT	AAGGAAGCACTCGGTTGATGAA
NlABCG5	AGACGGCAAGAACAACGAACCT	TGTCCAGAATGGCACGACCTTC
NlABCG6	GAGTACTCCCCGGTCACTCT	GCGTCCAGTTGAAGGGTACA
NlABCG7	GGCTCGGTGAAGGTGAACATCC	TCGGAGACGGAGTAGGTGAGGT
NlABCG8	TGCTGCCGTTCCTGTCCTCAT	TGGACTCTTGGCGACCATGCT
NlABCG9	ACGAGTGGCTTGGACAATGTGT	GGCTGGCACTTGGCTGATGTAT
NlABCG10	GAGTACTCCCCGGTCACTCT	GCGTCCAGTTGAAGGGTACA
NlABCG11	CTCAAGCACGGTTCAACTGGTT	TCGTCCGCCATTGATGAGGTAA
NlABCG12	GGCTGGTGCTCTGCTCAATGTC	GCTGCCGCAACTAAGCGTCTT
NlABCG13	GGAGAGCTGTTGGCTGTCAT	GCGCTTGTTAAGGCGTTCTT
NlABCG14	GGCGAAGTGTGGCAAGTCTCA	GGCTCGTCCAATAGCAGCAGAA
NlABCG15	TCACTTGCCTCACAGACCAC	ATGACAGCCAACAGCTCTCC
NlABCH1	CGCAAGGAGCTCGGATACAT	GAAGCCCTCTGTTGGCAGAT

Table 2. Susceptibility of *N. lugens* nymphs to verapamil inhibitor.

Chemical	N	Slope (SE)	LC_{15} (mg/L)	LC_{50} (mg/L)	LC_{95} (mg/L)
verapamil	315	2.62 (0.29)	203.93	507.82	2160.49

Table 3. NBD motif analysis of *N. lugens*.

Gene Name	Walker A	Q-Loop	ABC Signature	Walker B	D-Loop	H-Loop
NlABCA1	GHNGAGKT	PQH	LSGGMKRKLCLA	ILILDEP	SGLD	DHG
NlABCA2	GHNGAGKT	PQH	LSGGMQRKLSVA	TVILDEP	SGVD	AHG
NlABCB6	GPSGSGKST	PQD	LSGGEKQRVAIART	VLLDEA	SALD	AHR
NlABCB7	GGSGTGKSS	PQD	LSGGEKQRVAIARA	LIFDEA	SSLD	AHR
NlABCB8	GTSGNGKST	NQE	VSGGQKQRIAIARA	LILDEA	SALD	AHR
NlABCB10	GSHGSGKST	SQE	LSGGQKQRVAIARA	ILLDEA	SALD	AHR
NlABCC2	GLVGAGKSS	RQN	LSGGQRARINLARAV	YLLDDP	SAVD	THQ
NlABCC3	GPTGGGKSS	IQN	LSLGQKQQICLARAV	YLLDDP	SALD	LHY
NlABCC4	GHVGSGKTS	IQN	LSGGQKQRVALARAL	YFLDDP	SAVD	THQ
NlABCC5	GRVGCGKSS	SQT	LSGGQKARVSLARAV	YLLDDI	SAVD	THH
NlABCD1	GPNGCGKSS	PQR	LSGGEKQRMACRQAI	ALLDEC	SAVS	THR
NlABCD2	GPNGCGKSS	PQR	LSGGEKQRIAMARLF	AILDEC	SAVS	SHR
NlABCD3	GSRDSGKTA	IQK	LSIPEKQLILIASSF	LIVQEA	AQES	TIL
NlABCE1	GTNGIGKST	PQY	LSGGELQRFACAMVC	FMFDEP	SYLD	EHD
NlABCF1	GPNGHGKTT	VQE	FSGGWRMRVSLARAL	LLLDEP	NHLD	SHD
NlABCF2	GLNGSGKST	AQE	FSGGWRMRIALARAL	LLLDEP	NHLD	SHS
NlABCG1	GPSGAGKST	MQE	LSGGEKKRLSIALEL	IFLDEP	TGLD	IHP
NlABCG2	GPSGAGKST	MQE	LSGGQRKRVSVGLEL	IFLDEP	TGLD	IHQ
NlABCG3	GPSGAGKST	MQE	LSGGQKKRLLVAVEL	MLFDEP	SGLD	IHQ
NlABCG4	GPSGAGKSS	QQD	LSGGQKKRLSIALEL	MFLDEP	TGLD	IHQ
NlABCG5	ATQVDEGRA	RSD	LTDSEAQRLSLACHL	LLLDRP	RSMD	IQP
NlABCG6	GPSGAGKSS	IQQ	LSGGQKKRLSIALEL	MFLDEP	TGLD	IHQ
NlABCG7	GPSGAGKST	MQD	LSGGQKKRLSIALEL	MFFDEP	SGLD	IHQ
NlABCG8	GPSGAGKST	TQD	LSGGQRKRLSIALEL	LFLDEP	TGLD	IHQ
NlABCG9	GPSGAGKSS	QQE	LSGGQKKRLSIALEL	LFLDEP	SGLD	IHQ
NlABCG10	GSKGSGKRA	SHR	LTLSEYRRLAIGIQL	LLLDEP	ANLD	MEK
NlABCG11	GPSGAGKSS	MQD	LSGGQKKRLSIALEL	MFLDEP	TGLD	IHQ
NlABCG12	GPSGAGKTT	TQE	LSNGQKKRISIGVEL	LFVDEP	SGLD	IHQ
NlABCG13	GPSGCGKTT	LQQ	LSGGEKKRANIACEL	MLLDEP	SGLD	VHQ
NlABCG14	GSKGSGKRA	SHR	LTLSEYRRLAIGIQL	LLLDEP	ANLD	MEK
NlABCG15	GPSGCGKTT	LQQ	LSGGEKKRANIACEL	MLLDEP	SGLD	VHQ
NlABCH1	GPSGCGKTT	PQE	LSGGQQRRVSFAVAL	LILDEP	VGVD	THY

Gene Sequence

NlABCA1

ATGACTCTGTCTCACCAGCTTCAAGCCATCTGGTGGAGAAATTTGATTTTGAAGAAAAGAGGATGGTTTGCTTCCATCTGCGATCTTTCTATTCCCTTGATCAGTCTTTGCCTATTAT

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