

Table S1

Comparison of homologous genes between <i>Meloidogyne incognita</i> and <i>Caenorhabditis elegans</i>						
	Homology Type	<i>Meloidogyne incognita</i>	Gene Name			
	GPCRs	Minc3s01623g25167	<i>odr-10</i>			
	GPCRs	Minc3s00050g02698	<i>odr-7</i>			
	G protein	Minc3s01972g27520	<i>gpa-6</i>			
	G protein	Minc3s00003g00191	<i>gpa-11</i>			
	PLC	Minc3s00012g00794	<i>plc-1</i>			
	PLC	Minc3s05559g38432	<i>egl-8</i>			
	PLC	Minc3s00270g09074	<i>unc-13</i>			
	PLC	Minc3s00483g13114	<i>elo-1</i>			
	TRPV	Minc3s00057g02942	<i>osm-9</i>			

Table S2

Comparison of protein homology between <i>Meloidogyne incognita</i> and <i>Caenorhabditis elegans</i>						
<i>Meloidogyne incognita</i>	Gene Name	Protein Homology (%)				
Minc3s01623g25167	<i>odr-10</i>	43.49				
Minc3s00050g02698	<i>odr-7</i>	66.57				
Minc3s01972g27520	<i>gpa-6</i>	41.76				
Minc3s00003g00191	<i>gpa-11</i>	53.44				
Minc3s00012g00794	<i>plc-1</i>	64.99				
Minc3s05559g38432	<i>egl-8</i>	70.91				
Minc3s00270g09074	<i>unc-13</i>	83.76				
Minc3s00483g13114	<i>elo-1</i>	73.78				
Minc3s00057g02942	<i>osm-9</i>	66.4				

Table S3

Primer information of RNAi for <i>Meloidogyne incognita</i>						
<i>Meloidogyne incognita</i>	Prime F	Prime R				
Minc3s01623g25167	TAATACGACTCATATAGGGAGCTGGGCCCTTCACAAAATGGA	TAATACGACTCATATAGGGAGAAACGTGGTGGTGTCTGTTAA				
Minc3s00050g02698	TAATACGACTCATATAGGGAGCAACAACCTAGTAGAACCCAGC	TAATACGACTCATATAGGGAGGTCTTATCACGCACCCGCTG				
Minc3s01972g27520	TAATACGACTCATATAGGGAGGCGATTGTGGACTGATTCTGG	TAATACGACTCATATAGGGAGCATCGTTACGGCATCAAATACA				
Minc3s00003g00191	TAATACGACTCATATAGGGAGCGGAGGCGACGTACTATAGA	TAATACGACTCATATAGGGAGTGTCCGCCAACATCTACCAT				
Minc3s00012g00794	TAATACGACTCATATAGGGAGAAAGAGCATGAACCCGATCCT	TAATACGACTCATATAGGGAGGAGAGGGCAATCTAGGCTC				
Minc3s05559g38432	TAATACGACTCATATAGGGAGTTTTATGCGACGTCCAGACC	TAATACGACTCATATAGGGAGTGGCGAGAAAGGTAAGCTTT				
Minc3s00270g09074	TAATACGACTCATATAGGGAGTACAAAGAGCCGCCGAAAAG	TAATACGACTCATATAGGGAGCGAATTGCTCCGCTAACAACT				
Minc3s00483g13114	TAATACGACTCATATAGGGAGTCTGCCATTTTCTCAACCA	TAATACGACTCATATAGGGAGAGCAGACCCATTACTAGCCT				
Minc3s00057g02942	TAATACGACTCATATAGGGAGAAACGAAGCAAAAATCCGCCTT	TAATACGACTCATATAGGGAGAAAGCCTTCCATTTGTCAGCT				

RT-qPCR primers for <i>Meloidogyne incognita</i>						
<i>Meloidogyne incognita</i>	Prime F	Prime R				
Minc3s01623g25167	CCATTGCTCTAAGTTGGGTTGT	AGCCTGAATGAGAAGAGTCTCT				
Minc3s00050g02698	CTCTGAACGTGTCCAAACCC	GTCTTATCACGCACCCGCTG				
Minc3s01972g27520	GCGATTGTGGACTGATTCTGG	GGTTCGTAATTGGGCTGTCC				
Minc3s00003g00191	CGCATAACATGACCGAGGTG	GCCTTCTCCATACTGACACG				
Minc3s00012g00794	TACCGGACGATGTACTCACC	GAAGAGGAGACACAGGCCAA				
Minc3s05559g38432	TGCTGGTTGTCAAATGGCAG	GGTCTGGACGTCCGATAAAA				
Minc3s00270g09074	CCTTCACAAGACCAACCTGT	TTGCCAGCGAAGATCATTGG				
Minc3s00483g13114	ACGGATATTGGGTCTGGCTT	AATGCTGGCGTGATAGGGTA				
Minc3s00057g02942	TGAATGTACAGCTACGCAG	AGAGGGTAAGCACTGCATGT				

		In situ hybridization primer for <i>Meloidogyne incognita</i>									
Gene Name		Prime F					Prime R				
	<i>gpa-6</i>	GCGATTGTGGACTGATTCTGG					CATCGTTACGGCATCAAATACA				
	<i>odr-10</i>	CTGGGCCTTCACAAAATGGA					AAACGTGGTGGTGCTGTAA				