

**Supplementary Table S1.** List of primer sequences for gene cloning and sequence.

Gene	Forward primer 5' - 3'	Reverse primer 5' - 3'
<i>Ha-w-1</i>	F1: GGGTTCAGTGGTGCAGGAAAAACCACC	R1: GCATTCCATTTGCGATACAATCACTC
	F2: CCAGGGGTAGTTAAAGGCATATCTGGC	R2: GGCAGTTCTTCCCTTCTGCCATCAAGC
	F3: GCGATGAACCTACAACCTGGTTTGG	R3: CAACATTTTGACATTTGGTGAGAGAC
	F4: CCCTACTATTTGACATGGTTGTGAC	R4: CTCTAACCAACCCTGTTATCTTTAGCG
<i>Ha-w-2</i>	F1: GTCAAGTCTCTTGACATAACCGGCCTC	R1: TGCCACTCTACCTTCTGCCAAGAAGC
	F2: GACGTACAAATCGGCAATCCTGGC	R2: CACTGTTCTTCCAGTTTGTGCCATCGC
	F3: GAAGGTAGAGTGGCATTCTTGGC	R3: CATCATTTATACATATGAGGCCGG
	F4: GACAGATTGAGAGCTCCCTGTCC	R4: CCAACAACATGATACCCACAGTATTCAG
	F5: CCATCTGTGATGCATTCTGAAG	R5: GTGAAACTAGGAACATCAGCAAGCATC
	F6: CACAAGAATGGTATGTATAGAACGG	
	F7: CTCATGACGTCCATCTGTTACCTCTG	
<i>Ha-w-3</i>	F1: CACAGAGTTCCAACCTCAGCTTTCC	R1: CAGCTTCAGCTGGAGTACCCAAG
	F2: CCAATTGGTGAACCTGGAGTAGTC	R2: GGCTGTTCTTCCCTCGGCCATGA
	F3: GCACACTGCATCAACCATCCTCTG	R3: CCAGGTTCAACAATGGTACATTTTCGC
	F4: GTGGTGCAAATGCTCAAGGCAATGGCG	R4: CAGGAGGTTCTGACCGTAGGC
	F5: CGATAAAATTGGCCTCATGGCCGAGGG	R5: GCGCCATTTGGATACTTGACGATATGG
	F6: CGAACGGACGTCTACTTTTTGGCC	R6: CCTATGGAGAAATAGCAAATAGTTTGTGCC
	F7: GTCACCTTAGCAGTCATGGGAGCAGG	
<i>Ha-w-4</i>	F1: GGGAAAGGAGATATGGCGTCAATATCTGC	R1: GTTCCAAGAAGGCAATCTTGCCTTCCG
	F2: GTGAGAACTGTCAAATTGGAATACCAGG	R2: GGTTGATGAATTGTTGCTATCACCG
	F3: GAGTCAAGCTGGAATAACGGATG	R3: CCTGGTATTCCAATTTGACAGTTCTCAC
	F4: GCTGTGGTAAAAGGGCAATATTCATGAGAG	R4: GATGTTCTCTCACAGTCAAACATCC
<i>Ha-w-5</i>	F1: GTCAGTGGAGTTGCACATCCTGGAGAAC	R1: CTTTGGTGGTTCCCAAAAAGCGG
	F2: GTGAAAACGTCCAAATCGGTGTACCAGG	R2: GCGGTTCTTCTTCTGCCATCAAAC
	F3: GAGATATTGCCAGAAGTGGAGAAGCAG	R3: GTCGTTTTGCCTGCACCGCTGGAACCC
	F4: GGAGCACAAAGACGGCATGTATAGACCG	
	F5: GTGTGCCTGTGTGCACAAGGACTTGG	
<i>Ha-w-6</i>	F1: GGTGTGGCTTACCCAGCTCAGCTCATGG	R1: CCTCTGGAGTTCCCGTAAAAGCAACTC
	F2: CCCAAATCGGTATTCTTGGTGAGACC	R2: CCGAAGAAGGTTGGTGCAAACCTAGC
	F3: GACTGAAGGAAGAGTTGCTTTCACGGG	R3: CATTGAGGCAAACGCAGCCAG
	F4: GGCAACTGACCTACCATTATATCGTTC	R4: GACTGAAGGAAGAGTTGCTTTCACGGG
	F5: GGTAATGGTACCCTTCATGCTG	
<i>Ha-st</i>	F1: GTGGGATCGCTATCCTGGAGAAC	R1: CAAAGCTCCTGATCTGGAACCCATG
	F2: CTGTGATGAACCAACAACAGGTCTGG	R2: GAACATGGCGAAGATCTCAGACGAAGG
	F3: GGCTGAAGGTAGAATAGCTTACATGG	R3: CGTCAGTGTCTACACCAGATTACGAG
	F4: GGGTTCAGATCAGGAGCTTTGAATTTCTTC	R4: GAGACGTAGTATGTTGATAGGGC
	F5: GGAATCCAGGCTGTTTCAGGGTATGGC	R5: CTCTTATACATAATGGTGTATCTTTTGG
	F6: CATTCTCTCCTATGTAAGTCACTGTC	
<i>Ha-ABCG-4C</i>	F1: GGACACTTCCGGTCTGGGGAGTTGAC	R1: CGGCACCAGCTGTTTCGTGGAACC
	F2: GACCAGTGGTCTCTCCGGAGGACAG	R2: CCGTCGGCCAGGGTGTACAGTTGGTCTG
	F3: CCGAATCCAACAATTCTTCATCATCCTC	R3: CGTCGATTTGCCAGCTCCTGAAGGTCCC
	F4: GATTGTTGCGACACATCCTCGTGGG	
	F5: GAAGGAACGGCCCTTGCCACTTACGG	
	F6: CTTAAGATGGAACTGCGATCCAATC	

**Supplementary Table S2.** List of primer sequences for dsRNA synthesis.

Gene	Forward primer 5' - 3'	Reverse primer 5' - 3'
<i>Ha-w-1</i>	TAATACGACTCACTATAGGGCCAGGGGTAGTTAAAGGCATATCTGGC	TAATACGACTCACTATAGGGGGGCAGTTCTTCTTCTGCCATCAAGC
<i>Ha-w-2</i>	TAATACGACTCACTATAGGGCTGAATACTGTGGGTATCATGTTGTTGG	TAATACGACTCACTATAGGGCCCAAGAAAAATCAGCTAACCATGTGAG
<i>Ha-w-3</i>	TAATACGACTCACTATAGGGGGATGCAAAACTGACATATAAAGAACGGC	TAATACGACTCACTATAGGGGTAGTTCAGCTGCAAGGGCTAGC
<i>Ha-w-4</i>	TAATACGACTCACTATAGGGCCATTCTTGATATCTTTGGACGAACCCG	TAATACGACTCACTATAGGGGTTTGTGATAAGTTGAAAATATCTCAGAC
<i>Ha-w-5</i>	TAATACGACTCACTATAGGGGCAATTATCCAGGCAGTGAAGAGTC	TAATACGACTCACTATAGGGCCACTTCTCCATAAACAGCCCC
<i>Ha-w-6</i>	TAATACGACTCACTATAGGGCTTCCCTGGCATTGGAAATGAACACAGC	TAATACGACTCACTATAGGGCGCCCTACTGGATTGAGACGTTGTTGCC
<i>Ha-st</i>	TAATACGACTCACTATAGGGGTACTCTCATGATGGCTCTAGCCCC	TAATACGACTCACTATAGGGCCCAATCGCTCCTATCCTAGTATAC
<i>Ha-ABCG-4C</i>	TAATACGACTCACTATAGGGCGACCAACTGTACACCCCTGGCCGAC	TAATACGACTCACTATAGGGGGTGTTCACACTGTGGCATTCTCC