

Supporting sequence 1: Depicts 1080 nucleotide bases of *Phytophthora infestans* Sorbitol dehydrogenase gene

(Red highlighted fonts are siRNA effective region selected based on siRNA target finder software tools: Noble foundation psiRNA target finder tool, siDirect 2.0 etc)

ATGCAGAACTCGTGCGCCCCCATGCAAAACCTGTCGTTTGTCTCGAAAAGGGAGGCGCAGTCAAGTTCGAA
GACCGTCCGGTGCCTGAGATCGTGGACCCTCACGACGTGATCGTGAACGTCCGCTACACTGGAATTTGTGGCA
GTGACGTGCACTACTGCACGCACGGCTGTATTGGCAAGTACGTGGTGGACAAACCCATGGTTCTAGGACACG
AATCCGCAGGTGTCGTGCACGCTGTGGGGTCCGCCGTCAAGACTCTCAAAGTAGGCGATGAAGTGGCCATGG
AACCTGGAGTTCGCTGCCGACGATGCCAGCGTTGCCGCGAGGGAACTACAACCTTGTGTCCGGACATGGCAT
TCGCGGCTACACCCCGTACGACGGAACATTGGCCAAGTTCTACCGCATCCCCGAGGATTTCTGCTACAACT
GCCGTCCAACGTCAGTATGCAGGAAGGAGCGATGCTTGAACCCACTGCTGTTGCCGTTCACTTCTGCCGTCTA
GCTAAAGTGAGTCCTGGCAACAAAGTTGTGGTGTGGTGTGCGGCCCGTGGGTCTGTTGACTTGCAAAGTG
GCTCGGAACGTGTTTGGGGCTACGACGGTAGTCGCAGTGGACGTCAACGAGAAGCGTCTTGCGGTGCTATG
GAACACGGTGCGACGCACGTGTTTCAGGGGAACTGGGTACGACGCCTCAGGAGACGGCCGAGCAAATTAT
TGTAAGTGTGGACTGGGCGACGGCGCCGACATCGTGATCGATGCCAGTGGTGCTGAGTCTTGATCCAGAC
GGCAATCTACGTCGCACGCAACGGAGGCACCTTCACACAGGGAGGAATGGGCAAGACGGACATTATGTTCCC
AATTGGCATCATGTGTGGCAAGGAGTTACGTGTGACCGGCAGTTCCGCTACTCAGCAGGCGACTACCAACTA
GCGCTCGACATGGTTGCAAGTGGCAAGCTGGAAGTCAGGAGGCTGATTTCAAGACTGTACCGTTCGAAGAA
GCGAAGGAGGCTTTCGACAACGTCAAGCGCGGCAACGGCATCAAGTGGCTCATTGAAGGACCCAACTGA

CLUSTAL O(1.2.4) multiple sequence alignment of HP0823 *Phytophthora infestans* isolate with the reference sequence

PITG	ATGCAGAACTCGTGCGCCCCCATGCAAAACCTGTCGTTTGTCTCGAAAAGGGAGGCGCA
HP0823	ATGCAGAACTAGTGCGCCCCCATGCAAAACCTGTGGTTTGTCTCGAAAAGGGAGGCGCA *****
PITG	GTCAAGTTCGAAGACCGTCCGGTGCCTGAGATCGTGGACCCTCACGACGTGATCGTGAAC
HP0823	GTCAAGTTCGAAGACCGTCCGGTGCCTGAGATCGTGGAGCCTCACGACGTGATCGTGAAC *****
PITG	GTCCGCTACACTGGAATTTGTGGCAGTGACGTGCACTACTGCACGCACGGCTGTATTGGC
HP0823	GTCCGCTACACTGGAATTTGTGGCAGTGACGTGCACTACTGCACGCACGGCTGTATTGGC *****
PITG	AAGTACGTGGTGGACAAACCCATGGTTCTAGGACACGAATCCGCAGGTGTCGTGCACGCT
HP0823	AAGTACGTGGTGGACAAACCCATGGGTCTAGGACACGAATCCGCAGGTGTCGTGCACGCT *****
PITG	GTGGGGTCCGCCGTCAAGACTCTCAAAGTAGGCGATGAAGTGGCCATGGAACCTGGAGTT
HP0823	GTGGGGTCCGCCGTCAAGACTCTCAAAGTAGGCGATGAAGTGGCCATGGAACCTGGAGTT *****
PITG	CCGTGCCGACGATGCCAGCGTTGCCGCGAGGGAACTACAACCTTGTGTCCGGACATGGCA
HP0823	TCGTGCCGACGATGCCAGCGTTGCCGCGAGGGAACTACAACCTTGTGTCCGGACATGGCA *****
PITG	TTCCGCGCTACACCCCGTACGACGGAACATTGGCCAAGTTCTACCGCATCCCCGAGGAT
HP0823	TTCCGCGCTACACCCCGTACGACGGAACATTGGCCAAGTTCTACCGCATCCCCGAGGAT *****
PITG	TTCTGTACAAACTGCCGTCCAACGTCAAGTATGCAGGAAGGAGCGATGCTTGAACCCACT
HP0823	TTCTGTACAAACTGCCGTCCAACGTCAAGTATGCAGGAAGGAGCGATGCTTGAACCCACT

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PITG      GCTGTTGCCGTTCACTTCTGCCGTCTAGCTAAAGTGAGTCTGGCAACAAAGTTGTGGTG
HP0823    GCTGTTGCCGTTCACTTCTGCCGTCTAGCTAAAGTGAGTCTGGCAAA-AAGTTGTGGTG
*****

PITG      TTTGGTGTCGGCCCCGTGGGTCTGTTGACTTGCAAAGTGGCTCGGAACGTGTTTGGGGCT
HP0823    TTTGGTGTCGGCCCCGTGGGTCCGTTGACTTGCAAAGTGGCTCGGAACGTGTTTGGGGCT
*****

PITG      ACGACGGTAGTCGCAGTGGACGTCAACGAGAAGCGTCTTGCGGTGCGTATGGAACACGGT
HP0823    ACGACGGTAGTCGCAGTGGACGTCAACGAGAAGCGTCTTGCGGTGCGTATGGAACACGGT
*****

PITG      GCGACGCACGTGTTTCAGGGGAAACTGGGTACGACGCCTCAGGAGACGGCCGAGCAAATT
HP0823    GCGACGCACGTGTTTCAGGGGAAACTGGGTACGACGCCTCAGGAGACGGCCGAGCAAATT
*****

PITG      ATTGTAGAGTGTGGACTGGGCGACGGCGCCGACATCGTGATCGATGCCAGTGGTGCTGAG
HP0823    ATTGTAGAGTGTGGACTGGGCGACGGCGCCGACATCGTGATCGATGCCAGTGGTGCTGAG
*****

PITG      TCTTGCATCCAGACGGCAATCTACGTCGCACGCAACGGAGGCACCTTCACACAGGGAGGA
HP0823    TCTTGCATCCAGACGGCAATCTACGTCGCACGCAACGGAGGCACCTTCACACAGGGAGGA
*****

PITG      ATGGGCAAGACGGACATTATGTTCCCAATTGGCATCATGTGTGGCAAGGAGTTACGTGTG
HP0823    ATGGGCAAGACGGACATTATGTTCCCAATTGGCATCATGTGTGGCAAGGAGTTACGTGTG
*****

PITG      ACCGGCAGTTTCCGCTACTCAGCAGGCGACTACCAACTAGCGCTCGACATGGTTGCAAGT
HP0823    ACCGGCAGTTTCCGCTACTCAGCAGGCGACTACCAACTAGCGCTCGACATGGTTGCAAGT
*****

PITG      GGCAAGCTGGAAGTCAGGAGGCTGATTTCGAAGACTGTACCGTTTCAAGAAGCGAAGGAG
HP0823    GGCAAGCTGGAAGTCAGGAGGCTGATTTCGAAGACTGTACCGTTTCAAGAAGTGAAGGAG
*****

PITG      GCTTTCGACAACGTCAAGCGCGGCAACGGCATCAAGTGGCTCATTGAAGGACCCAACTGA
HP0823    GCTTTCGACAACGTCAAGCGCGGCAACGGCATCAAGTGGCTCATTGAAGGACCCAACTGA
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Supporting sequence 2: Depicts 1332 nucleotide bases of *P. infestans* Translation elongation factor1-alpha

ATGGGCAAGGAAAAGGTTACATCTCGCTGGTCGTCATTGGCCACGTCGACGCCGGTAAGTCGACCACCACC
 GGCACTTGATCTACAAGTGC GGCGGTATCGACAAGCGTACCATCGAGAAGTTCGAGAAGGAGGCTGCCGAG
 CTCGGCAAGACCTCGTTCAAGTACGCCTGGGTGCTTGACAACCTGAAGGCCGAGCGTGAGCGTGGTATCACG
 ATCGACATTGCCCTGTGGAAGTTCGAGTCCCCAAGTACTTCTTACGGTCATTGACGCCCTGGTCACCGTGA
 CTTTCATCAAGAACATGATTACGGGTACCTCGCAGGCCGATTGCGCCATTCTGGTGGTCGCTTCGGGTGTGGGT
 GAGTTCGAGGCTGGTATCTCCAAGGAGGGCCAGACTCGTGAGCACGCTCTGCTTGCTTCACTCTGGGTGTGA
 AGCAGATGATCGTCGCCATCAACAAGATGGACGACTCGTCTGTATGTACGGCCAGGCCCGTTACGAGGAGA
 TCAAGTCTGAGGTCACCACGTACCTGAAGAAGGTTGGCTACAAGCCCGCCAAGATCCCGTTCTGTCCTATCTC
 CGGCTGGGAGGGTGACAACATGATCGACCGCTCCACCAACATGCCGTGGTACAAGGGACCTTTCCTCCTTGA
 GGCTCTTGACAACCTGAACGCCCCCAAGCGCCCGTCGGACAAGCCGCTGCGTCTGCCCTTCAGGACGTGTAC
 AAGATCGGCGGTATTGGCACGGTACCTGTGCGCCGTGTGGAGACCGGTGTCATCAAGCCTGGCATGGTCGCC
 ACTTTCGGCCCCGTTGGTCTGTGCGACTGAAGTCAAGTCTGTGAGATGCACCACGAGTCTCTGCCTGAAGCTG
 TCCCTGGTGACAACGTGCGCTCAACGTCAAGAACGTGTGCGTCAAGGAGCTGCGTCGTGGTTTCGTGCTTC
 GGAATCCAAGAACGACCCTGCTAAGGCAACCCAGGACTTCACCGCCAGGTGATTGTGCTGAACCACCCTGGT
 CAGATCGGCAACGGTTACTCGCCTGTGCTTACTGCCACACGGCCACGTTGCCTGCAAGTTAAAGAGATTA

CGGAGAAGATGGACCGTCGTTCTGGGCAAGGTGCTCGAGACTGCCCCCAAGTTCGTCAAGTCGGGTGATGCCT
GCATGGTCATCCTCGAGCCGTGAAGCCCATGACCGTCGAGTCGTTCCAGGAGTACCCTCCTCTGGGCCGTTT
CGCCGTGCGTGACATGCGTCAGACCGTTGCCGTCGGTGTATCAAGTCGGTGAACAAGAAGGAAGCTTCGGG
CAAGGGTGGTGCCAAGAAGAAATAA

b) Effective siRNA region of Translation elongation factor 1-alpha gene used for dsRNA construct

ACAAGTGC GGCGGTATCGACAAGCGTACCATCGAGAAGTTCGAGAAGGAGGCTGCCGAGCTCGGCAAGACC
TCGTTCAAGTACGCCTGGGTGCTTGACAACCTGAAGGCCGAGCGTGAGCGTGGTATCACGATCGACATTGCC
TGTGGAAGTTCGAGTCCCCAAGTACTTCTTACGGTCATTGACGCCCTGGTCACCGTGACTTCATCAAGAAC
ATGATTACGGGTACCTCGCAGGCCGATTGCGCCATTCTGGTGGTCGCTTCGGGTGTGGGTGAGTTCGAGGCT
GGTATCTCAAGGAGGGCCAGACTCGTGAGCAGCTCTGCTTGCTTCACTCTGGGTGTGAAGCAGATGATCG
TCGCCATCAACAAGATGGACGACTCGTCTGTATGTACG

CLUSTAL O(1.2.4) multiple sequence alignment of HP0823 *Phytophthora infestans* isolate with the reference sequence

HP0823	-----
PITG	ATGGGCAAGGAAAAGGTTACATCTCGCTGGTCGTCATTGGCCACGTCGACGCCGGTAAG
	T7 Promoter
HP0823	TTAATACGACTCACTATAGGGAGCTACAAGTGC GGCGGTATCGACAAGCGTACCATCGAG
PITG	TCGACCACCACCGGTCATTGATCTACAAGTGC GGCGGTATCGACAAGCGTACCATCGAG
	-----*****
HP0823	AAGTTCGAGAAGGAGGCTGCCGAGCTCGGCAAGACCTCGTTCAAGTACGCCTGGGTGCTT
PITG	AAGTTCGAGAAGGAGGCTGCCGAGCTCGGCAAGACCTCGTTCAAGTACGCCTGGGTGCTT

HP0823	GACAACCTGAAGGCCGAGCGTGAGCGTGGTATCACGACCGACATTGCCCTGTGGAAGTTC
PITG	GACAACCTGAAGGCCGAGCGTGAGCGTGGTATCACGATCGACATTGCCCTGTGGAAGTTC

HP0823	GAGTCCCCAAGTACTTCTTACGGTCATTGACGCCCTGGTCACCGTGACTTCATCAAG
PITG	GAGTCCCCAAGTACTTCTTACGGTCATTGACGCCCTGGTCACCGTGACTTCATCAAG

HP0823	AACATGATTACGGGTACCTCGCAGGCCGATTGCGCCATTCTGGTGGTCGCTTCGGGTGTG
PITG	AACATGATTACGGGTACCTCGCAGGCCGATTGCGCCATTCTGGTGGTCGCTTCGGGTGTG

HP0823	GGTGAGTTCGAGGCTGGTATCTCCAAGGAGGGCCAGACTCGTGAGCAGCTCTGCTTGCC
PITG	GGTGAGTTCGAGGCTGGTATCTCCAAGGAGGGCCAGACTCGTGAGCAGCTCTGCTTGCC

HP0823	TTCACTCTGGGTGTGAAGCAGATGATCGTCGCCATTAAACAAGATGGACGACTCGTCTGTC
PITG	TTCACTCTGGGTGTGAAGCAGATGATCGTCGCCATTAAACAAGATGGACGACTCGTCTGTC

HP0823	ATGTACG
PITG	ATGTACGGCCAGGCCGTTACGAGGAGATCAAGTCTGAGGTCACCACGTACCTGAAGAAG

Supporting Sequence 3: Depicts 2121 nucleotide bases of *P. infestans* Heat Shock Protein 90

ATGAGCGCCGCGGAAGCTGAAACGTTGCCTTCTCGGC **CGATATCAACCAGCTGCTGAGTC** TGATCATTAAACA
CGTTCTACTCGAACAAGGACATTTTCTGCGTGAGCTCATCTCGAACGCCTCGGATGCCCTCGACAAGATCCGC
TACTCGTCGCTGACCGACGCCAGCGTGCTGGACACGGACAAGAACCTGGAGATCAAGGTGACCCCGGACAAAG

GCCAACGGCACGCTGACCATCCAGGACTCTGGTATTGGTATGACGAAGGCTGACCTGATTAAACAACCTGGGT
 ACGATCGCCAAGTCGGGCACCAAGGCCTTCATGGAGGCTCTGGCTGCTGGCGCCGACATCAGTATGATTGGT
 CAGTTCGGTGTGGGTTTCTACTCGGCCTACCTGGTCGCTGACAAGGTCGTGGTGCACTCGAAGCACAACGATG
 ACGAGCAGTACGTGTGGGAGTCTGCTGCCGGTGGCTCGTTCACTGTACGCCCCGACACGTCGGAGCCCATCC
 AGCGCGGTACGCGCATTGTGCTGAAGCTCAAGGAGGACATGCTCGAGTACCTTGAGGAGCGCAAGCTTAAG
 GACCTGGTGAAGAAGCACTCGGAGTTCATTGGCTTCCCCATCAAGCTGTACGTCGAGAAGACGGAGGAGAAG
 GAAGTGACGGACGACGAGGAAGAGGAGGACGAGAAGGAGGGCGAGGACGACAAGCCCAAGGTCGAGGAG
 GTCGAAGAGGAGGAAGGCGAGAAGAAGAAGACTAAGAAGATTAAGGAAGTGACCCACGAGTGGGACC
 ACCTCAACAGCCAGAAGCCCATCTGGATGCGCAAGCCTGAAGACGTGACCCACGAGGAGTACGCGTCGTTCT
 ACAAGTCGCTGACGAACGACTGGGAGGAGCACGCCGGCGTCAAGCACTTTTCGGTGGAGGGCCAGCTGGAG
 TTCAAGGCCTGTCTGTTACCCCCAAGCGCGCGCGCTTCGACATGTTTGAGGGCGGCGCCAAGAAGAAAGTG
 AACAACATCAAGCTGTACGTGCGTCGCTTTCATCATGGACAAGTGCAGGAGCTCATGCCCGAGTACCTGT
 CGTTCGTCAAGGGTGTGTCGACTCGGAGGACTTGCCGCTTAACATCTCGCGTGAGACGCTGCAGCAGAACA
 AGATCCTACGTGTGATCAAGAAGAACTGGTCAAGAAGTGCCTCGAGATGTTCCGCCAACTGGCTGAGGACA
 ACGAGAAGTACAACAAGTTCTACGAGTCGTTCAAGCAAGAACTCAAGCTGGGCATCCACGAGGACTCGACCA
 ACCGCACCAAGATCGCCAAGCTGCTGCGTTACCACTCCACCAAGTCTGGCGAGGAAGTGACGTCGCTGGATG
 ACTACATCTCGCGTATGCCTGAGAGCCAGCCGGTATCTACTACGTGACTGGCGAGAGCAAGAAGTCGGTGG
 AGAACTCGCCATTCAATTGAGAAGCTCAAGAAGAAGGGCTACGAGGTGCTGTTTCAATGGTGGAGGCCATTGACG
 AGTACGCTGTGCAGCAGCTCAAGGAGTACGAGGGCAAGAAGCTCATCTGCGCCACCAAGGAGGGCCCTCAAG
 ATGGAGGAGACGGAGGACGAGAAGAAGTCGTTTCGAGGAGGCCAAGGCTGCCACTGAAGGACTGTGCAAGC
 TCATGAAGGAGGTGCTGGACGACAAGGTGGAGAAGGTGGAGATCTGAACCGTATTGTGGAGTCGCCCTGT
 GTGCTTGTTACCGGCGAGTACGGCTGGTCGGCCAACATGGAGCGCATCATGAAGGCGCAGGCTCTGCGTGAC
 AGCAGCACGTGGCCTACATGTGTCGAAGAAGACGATGGAGATCAACCCGCTGCACCCTATTATCAAGTCGC
 TGGCGGAGAAGGCGGAGGCTGACAAGAGCGACAAGACGGTCAAGGACCTCATCTGGCTGCTGTACGACACG
 TCGCTGCTGACCTCGGGCTTCAGCCTGGATGAGCCCACTACGTTTCGCTAACCGTATCCACCGTCTTATCAAGCT
 TGGTCTGAGCATTGACGACGATGATGATGCCGCTGACGAGTCGATGGAAGACCTGCCCCCTCTTGAGGGCGA
 GGACGAGGAGGAGAGCACGATGGAGGAGGTCGACTAA

Effective siRNA region of the HSP90 gene used for dsRNA construct

CGATATCAACCAGCTGCTGAGTCTGATCATTAACACGTTCTACTCGAACAAGGACATTTTCTGCGTGAGCTCA
 TCTCGAACGCCTCGGATGCCCTCGACAAGATCCGCTACTCGTCGCTGACCGACGCCAGCGTGCTGGACACGGA
 CAAGAACCTGGAGATCAAGGTGACCCCGACAAGGCCAACGGCACGCTGACCATCCAGGACTCTGGTATTGG
 TATGACGAAGGCTGACCTGATTAAACAACCTGGGTACGATCGCCAAGTCGGGCACCAAGGCCTTCATGGAGGC
 TCTGGCTGCTGGCGCCGACATCAGTATGATTGGTCAGTTCGGTGTGGGTTTCTACTCGGCCTACCTGGTCGCT
 GACAAGGTCGTGGTGCACTCGAAGCACAACGATGACGAGCAGTACGTGTGGGAGTCTGCTG

CLUSTAL O(1.2.4) multiple sequence alignment of HP0823 *Phytophthora infestans* isolate with the reference sequence

		T7 promoter
HP0823	-----	TAATACGACTCACTATAGGGAGCGATATCAAC
PITG	-----	ATGAGCGCCGCGGAAGCTGAAACGTTTCGCTTCTCGGCCGATATCAAC

HP0823	CAGCTGCTGAGTCTGATCATTAACACGTTCTACTCGAACAAGGACATTTTCTGCGTGAG	
PITG	CAGCTGCTGAGTCTGATCATTAACACGTTCTACTCGAACAAGGACATTTTCTGCGTGAG	

HP0823	CTCATCTCGAACGCCTCGGATGCCCTCGACAAGATCCGCTACTCGTCGCTGACCGACGCC	
PITG	CTCATCTCGAACGCCTCGGATGCCCTCGACAAGATCCGCTACTCGTCGCTGACCGACGCC	

HP0823 AGCGTGCTGGACACGGACAAGAACCTGGAGATCAAGGTGACCCCGGACAAGGCCAACGGC
PITG AGCGTGCTGGACACGGACAAGAACCTGGAGATCAAGGTGACCCCGGACAAGGCCAACGGC

HP0823 ACGCTGACCATCCAGGACTCTGGTATTGGTATGACGAAGGCTGACCTGATTAACAACCTG
PITG ACGCTGACCATCCAGGACTCTGGTATTGGTATGACGAAGGCTGACCTGATTAACAACCTG

HP0823 GGTACGATCGCCAAGTCGGGCACCAAGGCCTTCATGGAGGCTCTGGCTGCTGGCGCCGAC
PITG GGTACGATCGCCAAGTCGGGCACCAAGGCCTTCATGGAGGCTCTGGCTGCTGGCGCCGAC

HP0823 ATCAGTATGATTGGTCAGTTCCGGTGTGGGTTTCTACTCGGCCTACCTGGTCGCTGACAA
PITG ATCAGTATGATTGGTCAGTTCCGGTGTGGGTTTCTACTCGGCCTACCTGGTCGCTGACAA

HP0823 GTCGTGGTGCACTCGAAGCACAACGATGACGAGCAGTACGTGTGGGAGTCTGCTGCTCCC
PITG GTCGTGGTGCACTCGAAGCACAACGATGACGAGCAGTACGTGTGGGAGTCTGCTGCCGGT

HP0823 -----
PITG GGCTCGTTCACTGTACGCCCCGACACGTCGGAGCCCATCCAGCGCGGTACGCGCATTG

Supporting sequence 4: Depicts 423 nucleotide bases of *P. infestans* GPI-anchored acidic serine-threonine rich HAM34-like protein

ATGAAGGTCTTCCAGCTCCTCGCCATCGCCGCTCTCGCCGTCGCTGCTGTCAACGGTCAGACTTCAGCTG
ATGCCTCCACCGCCGCTCCGCGCTGCGGCTACGACGTCTGCTGCGACTTCGACCGCTCTTCCGCTGC
TGCGGACACGGCCGCTGCCACCTCGACGGCCGCTTCAGGCATGGACAGCAGCATGAACATGACGTCCAGC
GGCACGACCGACTCGACCGAGGCCACAAGCACCCGCTGGCTCGGCTGCTGTTCGGTTTCGGAGGACTCGGCCA
CGGAGTCTTTCGAGCACCAAGGAGTCTCTCGGGCTCGGCGGATGCGAGCGCCTCGGCCCTCAGGCTCCAGCGG
TGCTTCTCAGATCTCAGGCGCCATGGGTGCAGCCACCGCCCGCTGCTGGCCGTGGGCACTTACTTCTCTG
TAA

Supporting sequence 5: Depicts 1677 nucleotide bases of *P. infestans* phospholipase D like-3

ATGCTTGTACTCTTCTTCATTTACGCGATAGCGGCATCTACGACTTCATCGGCATTTTTCGGTGTGTTGGCA
CCGATGATACCCCGGCACCGAAGCGGATTTATCCGATGGAACGGACATCAAAGTCCGGCAGCCTCTCCT
TAAAGCAACAGACTGGTTCTCACCAGAAAGGAAATCACCGATTTCGCGAGGCGGCATCCACGCAGCGAT
TTAGCGGCCTACACGACAGGCAACGCGGTGACATCCTTCACAGTTACGAAAGATTTCTACGACTCGGTTT
ACGAGGACCTGACAAAGACGAAGGAAGGAGATCGAGTACTACTTTTCGGCGTACGCTACAGCCCTGATCCC
ATTAAAACCGGATATCGACCCTACAGGCGCTACGACAGGAGTTGGCAAAGTGCTCACGGATGTTGTGAAG
CGCGGAGGTAATATCAACATCTCAACTGGCAGAATCTGAAGTACAGATACTTCAATCTCAAGGCTCGCG
ATGCTATCAACGCCATTCCAGTATCTCCAATAAATGGGGCCAAAGCAGTTCTTCTGTTCGACGACCGCCT
CCCGACTATGGTGTCTGCTTACCACCAGAAACTATGGTTATCTTGTCCGACAACGCCTCAGGTAGTGAG
GAGCAGCCAGTGCGTTACGTGGGTGGATTGGATCTAGCAACCGACCGGTGGGATACTATCGACCACAATA
ACTCGGCTATTTCGCGATGCAAGCGGAATTACGTTTAAGGTCCAAGGGTGGATTGACGGCCACATTTCGCAT
TCACGGGCCTGCAGCGAAAGATGTGGCGAACAACCTTTATTTCCACGGTGGAACTCCGACTACCTGCCTAGC
CAAAGTATTGAGGACGACGTGATGGACTTCGAGAACCCGTCATACGAACACATCCCACAGATGAAGTACG
CCAGTAGCAATACCACTGGCAAATTCGGCAAACAGAGTGTCCAGATCACGAGAACATTCAGCTGCACCTA
CAAACACTACAAGGAATTTGCTCCTCGGGGAGAGAATTCGCTCTTCCACGCACGTATCAAGGCCATCAAG
AACGCGAAGAACTTCATCTTTATCGAAGACCAGTATTTTATTTATGTACCGGAACCTTATGGACGCTATCA
TGGAAGTCATGCCCAAGATCCAGCGCTTGATTGTTTTTGCCAATCCTCAAACAAGCCCGTTCTCAAACGC
AGGATATATTAAATACCTGTACGAGATGGTTTACCAATCCGAGAGAAAGTTCCCAACAAGTTCAAGATC

TACACGACCAAGGCAGACCGGAACCTCATGCTGCACAGTAAAGTCGTGATCATTGACGACGTGTATTTGT
 CCGTTGGCTCGGCAAACCTGGAATCGTCTGAAGTATGACGTCTGGACCCAGAGCTTAACGCGGAGGTTGTTGA
 CGAGGAGACCGTGAAATCTCCTGAAGGCGTCACTGTAGGGAACTACCTCGTGATTATCGTATTGAAAA
 TTTGTGGAAATGACGGGATTGAGCTACGATGAACTTGATGCGATGACGTTTATCGAGGCGGCAAGCCAAT
 TAGCGCTAGCGGCTGCTGATGAATCATCGATACTGGAAAACTTGGATATTCAGGAGCACGCTTACTTCTT
 CGCTATTACGGATACGGTCCGAAAGATTTCGGATCCACAGGACACTTGCACTTACAGCTCTAGGTAG

Effective siRNA region of the Phospholipase-D gene used for dsRNA construct

AACCGAAGCGGATTTATCCGATGGAACGGACATCAAAGTCCGGCAGCCTCTCCTTAAAGCAACAGACTGGTTC
 CTCACCGAAAAGGAAATCACCGATTGCGAGGCGGCATCCACGCAGCGATTTAGCGGCCTACACGACAGGC
 AACGCGGTGACATCCTTCACAGTTACGAAAGATTTCTACGACTCGGTTTACGAGGACCTGACAAAGACGAAG
 GAAGGAGATCGAGTACTACTTTGCGGTACGCTACAGCCCTGATCCATTAAACCGGATATCGACCCTACAG
 GCGCTACGACAGGAGTTGGCAAAGTGCTACGGATGTTGTGAAGCGCGGAGGTAATATCAACATCCTCAACT
 GGCAGAATCTGAAGTACAGATACTTCAATCTCAAGGCTCGCGATGCTATCAACGCCATTCCAGTATCTCCAATA
 AATGGGGCCAAAGCAGTTCTTCTGTTGACGACCGCCTCCCGACTATGGTGTCTTACCACCAGAAAACATAT
 GGTATCTTGTCCGACAACGCCTCAGGTAGTGAGGAGCAGCCAGTGGCTTACG

CLUSTAL O(1.2.4) multiple sequence alignment of HP0823 *Phytophthora infestans* isolate with the reference sequence

PITG	-----CCGATGATACCCCGCAACCGAA
HP08	CGGTAACCTGGATCTCGTCGATGCGAGCTCTGCCGTGCCGATGATACCCCGCAACCGAA *****
PITG	GCGGATTTATCCGATGGAACGGACATCAAAGTCCGGCAGCCTCTCCTTAAAGCAACAGAC
HP08	GCGGATTTATCCGATGGAACGGACATCAAAGTCCGGCAGCCTCTCCTTAAAGCAACAGAC *****
PITG	TGGTTCCTCACCGAAAAGGAAATCACCGATTTCGCGAGGCGGCATCCACGCAGCGATTTA
HP08	TGGTTCCTCACCGAAAAGGAAATCACCGATTTCGCGAGGCGGCATCCACGCAGCGATTTA *****
PITG	GCGGCCTACACGACAGGCAACGCGGTGACATCCTTCACAGTTACGAAAGATTTCTACGAC
HP08	GCGGCCTACACGACAGGCAACGCGGTGACATCCTTCACAGTTACGAAAGATTTCTACGAC *****
PITG	TCGGTTTACGAGGACCTGACAAAGACGAAGGAAGGAGATCGAGTACTACTTTCGGCGTAC
HP08	TCGGTTTACGAGGACCTGACAAAGACGAAGGAAGGAGATCGAGTACTACTTTCGGCGTAC *****
PITG	GCTACAGCCCTGATCCCATTTAAACCGGATATCGACCCTACAGGCGCTACGACAGGAGTT
HP08	GCTACAGCCCTGATCCCATTTAAACCGGATATCGACCCTACAGGCGCTACGACAGGAGTT *****
PITG	GGCAAAGTGCTCACGGATGTTGTGAAGCGCGGAGGTAATATCAACATCCTCAACTGGCAG
HP08	GGCAAAGTGCTCACGGATGTTGTGAAGCGCGGAGGTAATATCAACATCCTCAACTGCCAG *****
PITG	AATCTGAAGTACAGATACTTCAATCTCAAGGCTCGCGATGCTATCAACGCCATTCCAGTA
HP08	AATCTGAAGTACAGATACTTCAATCTCAAGGCTCGCGATGCTATCAACGCCATTCCAGTA *****
PITG	TCTCCAATAAATGGGGCCAAAGCAGTTCTTCTGTTTCGACGACCGCCTCCCGACTATGGTG
HP08	TCTCCAATAAATGGGGCCAAAGCAGTTCTTCTGTTTCGACGACCGCCTCCCGACTATGGTG *****
PITG	TCGTCTTACCACCAGAAAACATATGGTTATCTTGTCCGACAACGCCTCAGGTAGTGAGGAG
HP08	TCGTCTTACCACCAGAAAACATATGGTTATCTTGTCCGACAACGCCTCAGGTAGTGAGGAG *****

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PITG      CAGCCAGTGGCTTACGTGGGTGG-----
HP08      CAGCCAGTGGCTTACGTGGGTGGCGATGACCGGTAACCAATTCGCCCTATAGTGAGTCGT
          *****
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