

Table S1. The sequences of *NsGPX* genes.

Gene	Sequence
<i>NsGPX1</i>	ATGGAAGAGGAAATGGACAGGAGTTCATTGAGGCATAGCAGCAACTGGGT TTCTCTTCTTTTATTGGATTTGCTCTCTTCTTGTATTTTACAGATACC CATTTTCTAATTCTTCTTCAAGTATGGCTGCCGAAGATGGTCCAACTCC ATTTACGACTTCACTGTTAAGGATATCCGAGGAAATGATATTAGTCTGAA GGATTACAGTGGAAAGGTCCTCTTAATTGTGAATGTCGCTTCAAAATGCG GTCTAACACAATCAAACCTACAAGGAACTGAATGTCTTGTATGAGAAACAC AAAGACCAAGGGTTTGAAATCTTGGCATTTCCTTGTAAACCAGTTTGCTGG ACAAGAGCCGGGAAACAAGGAGGAGATTCAAGGAACTGTCTGCACAATGT TTAAAGCTGAATCCCAGTTTTTGTATAAGGTTCGATGTGAATGGTAAGAAT GCGGCGCCGCTCTACAAGTACCTAAAGTCACAGAAAGGAGGATTCTTAGG AGATGCAATCAAGTGGAATTTACAAAGTTTTTGGTTAACAAAGAAGGGA AGGTTGTCGAGAGATATTCTCCACCACGTCACCTCTTAAGATAGAGAAA GATATACAGAATCTGTTGCAGTCGTCTTGA
<i>NsGPX2</i>	ATGGCGACCGCGATCCGACGGAGAATCAGCCTGAGGCTAACAAAAGAGAG GTTGAGGAAGGTGTGGCTGAGGCAACGAAGGCGTTGGAGAGGAAAGAAAG TGGAATAAGGCAGAGGCAGCCCTTGGCGAAGAAATCTGGGCTTGCGAGA AGCTTGATCGGCTGGCGGAAGCGGTGACGAAGCAGGCTAGGGGCAGTCG GACCAAGAGAGAGGCTTGGATGAAAAAACCTTGCTTGATTTTCGATTTG GAACTGTATTTTGTGCAGGGGGAGTGGATTGACCACTTCAAATTACACT GAACCTTCTCACCTATATGAGAAGTACAAGCCACAAGGATTGAAATTCT GGCTTTCCTATACAATCAGTTTGGGGGGCAAGAGCTTGGAGCAAATCCAG AGATCAAGCAATTTGCTTGTACCAGGTTTAAAGCAATTATAGTCCCATTT CTTGTTGTTGACGTAAATGGACCAAAACACCGCCCCAGTTTACCAGTGTTT GAAGTCAAATGCAGGAGGATTTTATAGGGGATTGATCAAGTGGAACCTTG AGAAGTTCTTGGTTGACAAAAATGGTAAAGTTGTGGAGCGATATCCGCCA ACAACATCTCCTCTCCAAATTGAGCTCACCAATCTTGGGCCGGATCCCAT GGATCTCAGATTCACCATTTTTTGGGCCGGATGCTCGTTTGAGCTTAGTGG GCTCTGATACCATAGGTGCAGATTTTGAAGTATTGTGAAGTTGATTGTT CTCACAGCCGCTAGGGCTTGTACTACCATGGTGACACAGAAGGAGTTGTT GCTTCAACAAATCATCTTGCTAAAATTTTATATTATTAATGAGTATGAGT GA
<i>NsGPX3</i>	ATGCTCAGTTCATCAACTCGCCTTATCTTCAATCGAACTCTCAATATCAC AGCTGTATCTGCTTCCGCATGTTTACCTCTAACGAAGAATTTATTTTCAG ATTTTAAGAGATCGTTTTTGTATTTCCCAATCGAAGCCGCTTTCATTT CTTAATTCATCTAAGAAAGCAGAGGTTCCGAAGCCAGTTTCTGCACTTT GAGATCCGATCGTACCATGGCAAGCCAATCCAAGACATCAGTTCACGACT TCACTGTCAAGGATGCTAGAGGAAATGATGTTGATCTTAGCATTTACAAG GGGAAGCTCCTATTGATTGTCAATGTTGCTTCGCAATGTGGCCTGACCAA CTCCAACCTACACAGAGCTGAGTCAATTGTATGAGAAATACAAAAGTCAAG GCTTGGAGATTCTAGCATTCCTGTGTAATCAGTTTGGAGCTCAAGAACCA GGAAGTAATGAGCAGATTGTAGAATTTGCTTGCCTCGCTTAAAGGCTGA GTATCCCATATTTGACAAGGTTGATGTGAATGGTGACAATGCTGCTCCAA TATACAAGTTCCTGAAGTCCAGCAAAGGTGGGCTCTTTGGAGACAGTATC AAGTGGAAGTTCTCCAAGTTCTTGGTTCGATAAAGATGGAAATGTTGTTGA ACGTTATGCCCCCTACCACATCACCTCTCAGCATCGAGGTCATGAACTTG GGAAGCTGATGATCGTGCCAAAGCATTATGAAATCGAGAGAACTAGAAAT GTGTTTCGGAGCGGTTTACATAGTTTTTAACTATCTAAACAACGGTTTCCG TTTCTCTTCACTACTACTGGCTACCGTTGAGTGCTTCCGTCAACTGTACG

CTGCTCCTCCTCTTTCCTGCTATCTGCAGTTGCTTTGCTTGCCCTTCTCC
AAGCTTGGAAGTAGCGTATTACAAGATGACAAGCCAATCCGTGACGAA
TGCTGAATCAGTTTATGATTTACTGTCAAGGATGCCAATGGCGATGATG
TAAATCTCAGCAAATATAGAGGGAAAGTGCTCCTCATAGTAAATGTTGCT
TCGAAATGTGGAATGACCAACTCCAACACAGAGTTGAATCACTTATA
CGAGAAGTACAAAGATCAAGGCTTGGAATTTCTGGCATTTCATGCAATC
AATTTGGCGAAGAGGAGCCAGGAAGTAACGAAGAGATCAAAGAGCATGTC
TGCACACGCTTCAAATCAGAATTTCCCATCCTTGCCAAGATTGACGTGAA
CGGACAGGATGCTTCTCTGTTGTACAAGTTCTTAAAGTCCGGGAAATGGG
GCATTTTTGGGGATGATATTCAGTGGAACCTTGCCAAGTTCTTGTTGAT
AAGAATGGTCAAGCCGTTGACCGTTATTACCCTACAACCTCCCTCTTAG
CCTCGAGCGTGACATCGAGAAGCTGCTGAGCATGTCTTGCTGA

NsGPX4

ATGCTTAGTTCATCAACTCGCTTATCTTCAATCGAACTCTCAATATCAC
AGCTGTATCTGCTTCCGCATGTTTACCTCTAACGAAGAATTTATTTTCAG
ATTCTAAGAGATCGTTTTTGATATTTCCCAATCGAAGCCGCTTTCATTT
CTTAATTCATCTAAGAAAGCAGAGGTTCCGAAGCCAGTTTCTGCACTTT
GAGATCCGATCGTACCATGGCAAGCCAATCCAAGACATCAGTTCACGACT
TCACTGTCAAGGATGCTAGAGGAAATGATGTTGATCTTAGCATTTACAAG
GGGAAGCTCCTATTGATTGTCAATGTTGCTTCGCAATGTGGCCTGACCAA
CTCCAACACAGAGCTGAGTCAATTGTATGAGAAATACAAAAGTCAAG
GCTTGAGATTCTAGCATTTCCCGTGTAATCAGTTTGAGCTCAAGAACCA
GGAAGTAATGAGCAGATTGTAGAATTTGCTTGCACTCGCTTAAGGCTGA
GTATCCCATATTTGACAAGGTTGATGTGAATGGTGACAATGCTGCTCCAA
TATACAAGTTCCTGAAGTCCAGCAAAGGTGGGCTCTTTGGAGACAGTATC
AAGTGGAACCTTCTCAAGTTCCTGGTCGATAAAGATGGAAATGTTGTTGA
ACGTTATGCCCCTACCACATCACCTCTCAGCATCGAGGTCATGAACTTG
GGAAGTTGATGATCGTGCCAAAGCATTATGAAATCGAGAGAACTAGAAAT
GTGTTGGAGCGGTTTACATAGTTTTTAACTATCTAAACAACGTTTCCG
TTTCTCTTCACTACTACTGGCTACCGTTGAGTGCTTCCGTCAACTGTACG
CTGCTCCTCCTCTTTCAGCTATCTGCAGTTGCTTTGCTTGCCCTTCTCC
AAGCTTGGAAGTAGCGTATTACAAGATGACAAGCCAATCCGTGACGAA
TGCTGAATCAGTTTATGATTTACTGTCAAGGATGCCAATGGCGATGATG
TAAATCTCAGCAAATATAGAGGGAAAGTGCTCCTCATAGTAAATGTTGCT
TCGAAATGTGGAATGACCAACTCCAACACAGAGTTGAATCACTTATA
CGAGAAGTACAAAGATCAAGGCTTGGAATTTCTGGCATTTCATGCAATC
AATTTGGCGAAGAGGAGCCAGGACGTAACGAAGAGATCAAAGAGCATGTC
TGCACACGCTTCAAATCAGAATTTCCCATCTTTGCCAAGATTGACGTGAA
CGGACAGGATGCTTCTCTGTTGTACAAGTTCTTAAAGTCCGGGAAATGGG
GCATTTTTGGGGATGATATTCAGTGGAACCTTGCCAAGTTCTTGTTGAT
AAGAATGGGCAAGCCGTTGACCGTTATTACCCTACAACCTCCCTCTTAG
CCTCGAGCGTGACATCGAGAAGCTGCTGAGCATGTCTTGCTGA

NsGPX5

ATGGTTTCGTCAGTCCCTTTTTCTGCAAATTTCTATTCACCTTTACACGC
TTTCCACAGTCGAAAACCCATCCAGTTTCCTCCTCTTCTCGTCTTTCT
CATGGCCTTCCATGGCTATTTTGAATCCTTCCATCAAATCCTCACTTGGG
TTTTCTAAATCAGGTTTTTTTCAACACGGGTTGTTTTGTCAGTCTCAAT
TTTACCTGGGTTTTTCTTCAAAGCTCGCTCCTCGGGTGTATGCCACAG
CTGCTACTGAAAAGACCATCCATGACTACACTGTAAAGGATATTGATGGG
AAGGATGTTCTCTTAGCAAATTTAAGGGGAAAGTTCTCTTGATTGTGAA
TGTTGCTTCAAATGTGGATTGACCACTTCGAATTACACGGAACCTCTCTC
ACTTATACGAGAAGTACAAGCCGCAAGGATTTGAAATTTCTGGCTTTTCCA
TGCAATCAGTTTGGGGGGCAAGAGCCTGGAGCAAATCCAGAGATCAAGCA

ATTTGCTTGTACCAGGTTTAAAGCAGAATTTCCCATTTTCGACAAGGTTG
 ACGTAAATGGACCAAACACTGCCCCAGTTTACCAGTATTTAAAGTCAAAT
 GCAGGAGGATTTTTAGGGGATTTGATCAAGTGGAACTTTGAGAAGTTCTT
 GGTTGACAAAAATGGTAAAGTTGTGGAGCGATATCCGCCAACACATCTC
 CTCTGCAAATTGAGAAGGACATCCAGAAGCTTGTTACGGCATGA
NsGPX6 ATGGAAATGCCTGAGTCGAACAAAAGAGGGGCTGAGGAAGGTGTGGCTGA
 GGCAGCGGAGGCGTCGAAGAGAAAAGATAGTGGAAC TAAGGCAGAGGCAG
 CCCTTGCGAAGAAATCTCGATCTTTTCTTTGAATCCCAATGGATTGACC
 ACTCCAAATTACAATGAACTTTCTCACTTATACGATAAGTACAAGCCGCA
 AGGATTTGAAATTCTGGCTTTCCCATGCAATCAGTTTGGGGGGCAAGAGC
 CTGGAGCAAATCTAGAGATCAAGCCATTTGCTTGTACCAAGTTTAAAGCA
 GAATTCCCCATTTTCGACAAGTGGAACTTTGAAAAGTTCTTGTTGACAA
 AAATGGTAAAGTTGTGGAGCGCTATCCGCCAACACATCTGCTCGCCAAA
 TTGAGAAGGACATCCAGAAGGTTGTTGTGGCATAA
NsGPX7 ATGACTGATTTGGGTTTTGGCGATAATTACGAGCAGGATAGCAAGGGCAA
 GGAAGTGGACCTCAGCATCTACAAAGGGAAGGTCTTACTCGTGGTCAACG
 TCGCCTCCAAATGCGGGTTTACCGATTCAAATTACACGCAGTTGACTGAG
 CTTTACAGCAAATACAAGGACAAAGGTTTTGAGGTTTTCGCATTTCCATG
 CAACCAATTTCTAAACCAGGAGCCTGGGACGAGCCAGGAGGCGCAAGATT
 TTGCATGTACCAGATACAAGGCTGAATATCCAGTTTTTCAAAGGTTCTGT
 GTAAATGGTCCAAACACAGCACCCGTGTACCAATTCCTTAAAGCAAGTAA
 ATCCACATTCTGGGGTCCAAGAATAAAGTGGAAC TTCACCAAGTTCTTGG
 TTGATAAAGAAGGCCATGTCATCGCTCGCTATGGCACTTCCACCGCTCCA
 TTGGCTATCGAGGTTCACTTTTGCACCATCTCTCTCTCTAACACACATAC
 TTGTGCACGCGCACACACTTTTTCTGATGACACTTTGTTCAATTGTCTCAT
 TGATCTCTAGTTAG
