

>hbo:Hbor_04420-Ar sulfite reductase, subunit beta (hemoprotein); K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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GTACCACCAGCGGAACGGGCAGGAGTCGTACTTCATGATGCGGATTGGGACGCCAAACGGCGTTCTCGAACCG
GGGCAACTGCGCGTTCGTCGGCGAAATCGCAGCGGAGTACGCCACCGGTCCGGGGACGAATCCGATCTTCGGTG
ACGCTTATGCCGACTTCACGACCCGGCAGTCGATCCAACACTACTGGATCAACATCGAAGACGTGCCCGCGAT
CTTCGAGAAGATGGAGAAAAACGGGTTGTCCGCCAGCAAGCGTGTGGTACTCGTGGCGAACATCGTCGGC
AACCCCGTTCGCCGGGAAGGACGCTCAGGAAGTCATCGATGCGTGGCCCGTTATCCGCGAACTCAACGAGACGT
TCAAAGGCAACGAGGATCACTCGAACCTCCCGCGTAAGTGGAAGGTTTCCGTGACGGGGTCCGCGGACGGGT
CGGACAGGGGGACATCAACGACCTCGCCTTCGAACCGCGTACAAGGAGGTTGACGTCGAAGAGAAGGTTCGGT
TTCAACGTCCGCGTTCGGCGCGGTCTCGCCCGCAACGAGGAGCGCTTTGCCCGGACATCGACGTGTGGGTTCG
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CTACAACGCTCGTATCAAGTTCCTCGTAGACGAGTGGGGGCCGAGAAGGTTTCGAACGTCCTGCAGGAAGAG
TACGTTGACTTCGAACTCCACACCGCAGGCCGCGACGTCCGCGAGGAGTACACGTACAACACCGGCAGTGGCG
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TCTCAGCGGCAGAACGTCAATCGTCACCGACGTACCCGAAGAAGACCTCGACGACTTCTCGGCGAAGACCTGC
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TCAGCCTCCGCGGTATGAAGACCCGAAAGAACGGCGAACCCGTCGAAGCACTCGACGTTGGCCTCGGCGGGCG
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>hbo:Hbor_39920-Ar sulfite reductase, beta subunit (hemoprotein); K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

ATGAACACTGTTGAACGATGGAAACAAGAACAACATCCGCTCGATGTTATCGAGAACGTCTACGAGTACGCTG
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GATTCGCGCGGACGAGCGGTTGTGGTGGACGACTCCGAAGGAAGCAGCAACGAAGCGGGTGATAATATCACCGA
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CTGCGCAGGCCGTGATTCGGCACTACAGCAACTATTCACCGTCTTACCGAAGAGCGCGACCCCGACGAGC
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>htu:Htur_0174-Ar nitrite and sulphite reductase 4Fe-4S region; K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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TGCCTACTCCGGCTGTACGGCCGACTGCGGCCAAGCGATGACCGCCGACATCGGCCCTGCAGGGCATGCGCGC
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>htu:Htur_0241-Ar nitrite and sulphite reductase 4Fe-4S region; K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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GTGCCCGCCCAGTCCGTGATTCGGGCGCTCGAGCAGCTGTTCGAGGCCTACAGCGAGGGCCGCGACGACGGCG
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GTTGACAGGAGTGTGCCATGGGGACTAA

>htu:Htur_2855-Ar nitrite and sulphite reductase 4Fe-4S region; K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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>htu:Htur_3039-Ar nitrite and sulphite reductase 4Fe-4S region; K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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CGACCGTCTACGGTACGAGGGGGACCTCTACCTGCTCGACGGTGGTCTCGAGGCGTGGCTCGAGGAGATCGA
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>vdi:Vdis_1436-Ar nitrite and sulphite reductase 4Fe-4S region; K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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CAAGGGACTCCTGCGGAAACTCTGTTAGGAATCCAATACCGTGCACCTCCCAGTTCTGCCCATATGCCACAT
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>vmo:VMUT_0162-Ar nitrite and sulphite reductase 4Fe-4S region; K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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>cma:Cmaq_0290-Ar nitrite and sulfite reductase 4Fe-4S subunit; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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>hje:HacjB3_00040-Ar nitrite and sulfite reductase 4Fe-4S subunit; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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GTACCACCAGCGCGCCGGCCAGGAGAGCTATTTTCATGATGCGGATCGGCCCGCCAAACGGCGTGCTCGAACCC
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ACGGCTGGGCCGACTTTACGACCCGCCAAGCCATCCAACCTGCACCTGGATCAACATCGAGGACGTCCCCGCCAT
CTGGGACGAACTGGAGGAGGCCGGCCTCTCGACGCTGCAGGCCTGTGGGGACTCCTGGCGCAACATCGTTCGGC
TGTCCGGTTCGCCGGCAAGGACAAGCACGAACACGTGCAGCGCTCGATACCATCCACGAACTCCACGACACCT
TCAAGGGCGACGACGATCACTCGAACCTCCCCCGCAAGTGGAAGGTTTCCGTTACGGGGTGTGACGAGGGCTG
TGGACAGGGTGACATCAACGATCTGGGTCTCGAACCCGCCGAGAAGAACGGCGAGACGGGCTTTAACGTCCGC
GTCGGTGGCGGACTCGCGCGCAACGAGCCCCGCTTCGCCCGCGACATCGACGTCTTCGTACGCCCCGAACAGG
CCGCCGACGTTCGCCGGCGGCTCTCTCGGCGCTGTTTCGCGACCACGGCGACCGCGAGAACCCTACAACGCCCG
GATCAAGTTCTTCGTTCGACGAGTGGGGCCCCGAGAAGGTCGCGACGTCTTCAGGAGGAGTACGTTCGACTTC
GAACTCGAGACCGCGGGCGAGGACCTCCGGGAGAACTACTCCTATAACGCCCGCACCCGCCGACGGCCACGCCG
ACCACGTTCGGCATCCACGAACGAAACGACGGGAACTACTACGTTCGGACTGAACGTCTTCGTGGGTTCGGATGGG
CGCGGACGAGGTGATCGAACTCGCCGACATCGCCGACGAATACGGTTCGGGGCAGGCCCCGGATCACCCAGCGC
CAGAACCTGATCCTCACCGACGTCCCCGAGAAGAACCTCGACGAGCTCCGCTCGGAGCCCCGCTCTCGGAGT
ACAGCCCCGATCCCCACCCGTTCCAGCGCGGGTTCGATCGCGTGTACCGGCACGGAGTTCTGCTCGCTGTTCGAT
CGTCGAGACGAAAAACAGGCAAGTGCCTTCTCGCGCTGGCTCGTCGAGAACGTGCAACTCCCCGACGGCATT
GAGGACTTCCACATCCATCTCTCGGGTGTACGGCCTCCTGTGCCAGCCCCAGATCGCCGACGTCTCGCTGC
GGGGCATGAAGACCCGCAAGGACGGCGAGCCGGTTGAGGCGCTCGACATCGGGCTGGGCGGTGGCTTGGGCGA
GAACCCCAACTTCGCCGACTGGGTGGTCCAGCGCGTGCACGACGAAAGTGCCTGGCGCGATCGCGAACCTG
ATCGAGGGCTTTGCCCGGAGCGCGAGGGCGACGAGACCTTCGCGAGTTCGTTCGTTCGAGCGCGACGAGGAGG
AACTCGCCGACCTCTGTGAGCCCGAGGAGACCTCCTATACGGATCCGTACATGCACAACACGAAACAGACGTG
GTACCCCTACGCCGACGAGGACGACATGGACGCCAGCCCCGCGCCGACGTCCGCCGACGACTGA

>hje:HacjB3_10150-Ar nitrite and sulfite reductase 4Fe-4S subunit; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

GTGAACACGGTAGAGGAATGGAAACGGGAGAAACATCCCTCGACGCAGTCGAGGACGTCCACGAGTACGCCG
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AATGTACACCCACGGTGCACGCGGGGTATCTGATGATGCGCACGAAGTCCCGGTGGTTCGACTAACCCCC
GAGCAAGCCGAGGTGATCGGCCAGGTCGCCACGGAGTTCGCGACCCGACCCGAAGAAATACGGCGGCAGCGAGC

AAAACGACCTGTGGGGCGACGCCTTCCTCGACGTCACGACCCGACAGGACGTTCAAACGCATTGGATCGAGAT
CGAGGACATCCCCGAGATCTGGGAGCGCTACGACGAGGTGGGGCTGACGACGATCCAGGGCTGTGGCGACGGC
GCGCGAAACGTGCTCGGCTGTCCGGCCGCCGTCTCGACGATCACGAGTGTTTCGACGCCAGCCCGTTATCG
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CGGCTGCAAACACGACTGTGCCAATCGCAGATCAACGACGCCGGCTGGTGCCGGCCCGAAAACGGATCGAC
GGCGAACCCACTACGGCTTTCACGCCCGCGTCGGCGGCGGCCCTCTCCGATGGCCCGCGCATGGCCTCGAAC
TCGACGTCTTCGTGCGCCCGGAGGACACAGTCGAGTCTGTCTGTCGTCGCGCCGAGACGTTCAAGGAGCTCGG
CGACCGGCACAACCGCGGGTCTGTCCGATGCGCTATCTCGTCCAGCAACTCGGCCCGGAGAACTTCGAGGCG
GCCGTCCGCGATCGGTGTTCGGTCGACTTGCAGCAACGGGGCGAGGGCTCACCGAGGGCTACCGGGGCGATC
ACGTCCGGCTCCACGACCAGCGAGAGCCCGGATTGAACTACGTCCGGTTCAACGTGATCGCCGGACGAATGGG
CGGCGAGGAGTTCCCGCAGCCGCCCGCGCCCGCGAGTACGGCACCGAGGAGAGTTCGGTCCGGCTGGCT
ACGGATCAGAACTTCTCATCACCCATATCCCCGCGGAGAACGTTCGAGGACCTACTCAACGAACCCTTCGCCG
CCGACTACCAGCCGATCCCGGCCCGTTCCTCGCGGGGGCGGTTCGGCTGCACCGGCAGCGAGTTCGTAACTA
CGGCATCATCGAGACGAAAAACCGCTCAGGCGGTGGGCACGCGAACTCGACGAGCGCATCGAGACGCCCGAG
GACCTCGAGGTGGTGCGAATGCACATGAGCGGCTGTTTCGGCCTCGTGTGCCAGCCCCAGATCGCGGACATCG
GCTTCCCGCGGCGAGACCGTGCAACTGGACACGGATGGCGACGGAGATGCCGACGACATCGTCGAGGGCATGGA
CTTCGGCCTCGGGGGGAGTCTCGGCACCGACAACCGCTTTCGATTGGGTGGAGACGGCCGTTCTGCCGAT
GCCGTCAATCCCGCGCTCGAAACGCTTTTTTCGGCGTACGCCGAGGAACCGCGAGGACGGGGAGCGCTTCTACG
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GGTGGCCCGGATGACTGA

>hxa:Halxa_1971-Ar nitrite and sulfite reductase 4Fe-4S region; K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

GTGAGCGACGGTCCGACGGTCTCTCCCCGACTGGCTCGAGACGCACCGCGATGACGACGGAGTAGTCGTTCG
TCGACGTCCGCGAGGCCCGCGACTACGCGGAACTGGGCCACGTTCCGGGCGCGGTTAACGTCCCAACCGAGGT
GTTCCGCGATCCGAGCAGCGTCCCGCCGAAAACCTCCCGCGGCCGACGACTTCGCTGCCCTCATGCGGGAG
GCCGGCATCCGCGAGGGCGACGCCGTCTGTCGCCGTGACGACGCCAACGGCGTCAACCGCGCCCGCTTTCTGC
TCACCGCGATCGTCTACGGCCACGACGGCCCGCTGTACCTACTCGACGGCGGCCTCGAGGCCTGGCTCGAGGC
GGGCGGCAACCTCTCGGACGAGGACCCCGACCCCGAGCCGACGAACTACGAAGCCGAACGGGACGCCGGCGCG
CCGCTGGTTCGACCGCGCTGGCGTTCGAGGAAGCGGTTCGAGGGCGACGCGGTTCGTCGTCGACACCCGGACGGCCG
CCGAGTACGACCAGTCTCACATCCCGGCGCGGTGCAACTGGGCTGGGAGGACCTGCTCGAGGAGTCGGGGCG
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TACTGTAACACTGCACGGCGACTCAGCCACACCTTCGTCTCCTCCGAGACCTCGGCTACGAGAAGTCGAGT
TCTACGAGGGCAGTCTGACGGATTGGGTCCGCGCCGAGGCACCCGAATGGGACCCCGTCAACTCAAGGAGCA
AGTGCGGGCTACTCGAGGGGGCGGCGGCTTCGAGGGCATGGTTCGAGGAGTTGGGGCGACGACGTGCTCAATCGG
CTGAAGCTCATCGGGCTCTACCACCAGAAGCAGCGGGGCTACTTCATGCTCCGGACCCCGCGCCCCGGGCGGGA
TCCTCACCGCCGAGCAGGCCCGGACGATCGGCGAGGTTCGCCGACGAGTTCGCCCGCGCCCCGACGAGTACGG
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TGGATCGAGATCGAGGACGTCGCCGAAATCTGGGACCGCTACGACGCGGTTCGGCCTCGAGACCATGCAGGCCT
GCGGCAACTCGGTGCGCAACGTCGTTCGGCTGCCCGCCTCGGGGATCGACCCGGACGAGACCGTTCGACGTCCA
GCCGGTTCGTCGAGCGGGTTCAGCCAGCGGTTCTCGGTGACCACACTACGCGAACCTCCCGCGGAAGTTCAAG
GTCAGCGTCACTGGCTGTACGAGAATGCGCCCCGCGCGCAGATCCAGGACCTCGGGCTGACGCCCGCCCGGA
AGGACGGCCGCGAGGGGTTTCGTCGCGCAGGTTCGGCGGGCCCTCTCGGACGGCCCGCGGATCGCTAGCGACAT
CGACCTGTTTCGTCGACCCCGAGGACGTCGACGATCTCGTCGCCGCGATGGCCGACCTGTTTCATGGACCACGGT
AGCTACCTCGATACGGCCGTCACCCGGCTTCGTTTCTCGTTCGAAGAATTGGGGCCCCGAAACGTTCCCGGAGG
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CGACCAGTTCGGGGTCCACGAGCAGGCCGACGGCCGCTCTACGTTCGGTTGAACGTCCCGACCGGGCGGATG
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CGGACGACCACGACGCGATTCGAGTCCACATGTCCGGCTGCGCGGCCCTCTGTGCCAGCCCCAGTTGGGCGA
CTTCGGACTGCGCGGGGAGGTCTACCGCGACGACTTCGAGTCCGGTTCGCGCAGCGGACATGGGGCTGGGCGGC
GATCTCGGCGACGACCAGTTCATCGACTGGCTCGTCGGCAAGATCCCGATCGAGGACGTGCCGAGCGTTCATCG
AGGCGACGGTGCAGGCCTACGAGGACGACCGCGAGCCCGACGAGTCTTTGCCGAGTGGACAAACCGCACGTC

GAACGCGGACCTGCGCGAGATCATCGCCGAACAGCCGGCGCGGATCCGCCGGCGATCGGGACGGAGGTGAGC
TGA

>mse:Msed_0880-Ar nitrite and sulfite reductase 4Fe-4S region; K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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GGTCTTAGCCAATATATCTAAGAAAGGAGATGGAAGAGTTCATTTTACAACAAGGGGAGATGTAGAACTTTAC
GGAATTCAGCTATCTGATAAGGAGAAGGTGCTGAGAGAGCTTGAGAGTGTTCGAGTTGGATCCAAGGGATTCCCT
GTGGGGCATCGGTTAGAAACGTCCTTCCATGTCCATCTTACATTTGCCCTTTGCTAAGACAGATGCAATTA
GGCCTCCCTTGAGATAGCTTCCCTTCTCAGACATAATCCAGAGTACGAATTTCCCAAACCTCCAAAAGGGTA
AAGATCTCTGTCTCGGCATGTGAAAAGGGATGTTCCGGTCCCCTAATAATGGATGTGGGAATTGTAGCCAGAG
GTGAAGATCTCTTCGACGTGTGGGTGGGTGGGGGAATTGGAGACCATGATTTTCAGGGCATCAAGCTATTTGA
GGGAGTTACGCTCGCTGACGCCAAGAGGATCTCCATAGCGGTTACCAACATCTGAAGCGAGAGAATGAGAAA
AGGGGATTCAAGTGGGTAGTGCAAAAATACGGTTCGGAAAGGGTAAAGGAAATGATCCTGAATGAAATTGAAA
AGATTCAGATAGAGCGGATTAAGGGCATAACCATCCTCACACCTCAACGCAAAGTTAATGGTTGTTAGA
GGGTGGTTGGCTGAATTGGGAGGAAGTCAAGAAGTTGCCAAGATTGCAAGGGAGA
ACTTAGGTTTTGTCTCG
CTCTTTAATTCGCAGGCGATATTCATTCCTGTTCAGGGAGTTACCTAAAGGTGCAGAGTCCGTTGAATATCCTT
ACCTTAAAAATGTTGTCGAGGCATGCATTGGAGATGATTATTGCCCTCCTGCAATAATTTCTACTACAAAAAT
GGCCGAGGATCTGTTAAAAACTGCCTCAGACAGTAAAAATGCGTATTCATATCTCCGGCTGTTCCCACTCGTGT
GGAAGGCATCAGGTTGCGGATTTAGGATTCAGAGCAGTTATGAGAAACGGGAAAAGAGCTCTGAAAATATATG
TAAATGGCAATAATTATAGCATAGGAAAAGTGGTAGGTGAAGTCGACTACGAGGATTACCTTCTAGTTGTGGA
CAAGTTAAAGGGGATAGACTTAGAAAATATTGAAGAAATAAGGAGAAAATTAATGAAAATCCTTCCCTTAA
GCTGGTGGTCAGAGTGAGGAATAG

>hla:Hlac_0864-Ar nitrite and sulfite reductase 4Fe-4S domain-containing
protein (EC:1.7.7.1); K00366 ferredoxin-nitrite reductase [EC:1.7.7.1]
(N)

ATGCCAACGGACGTCGAGAACTGGAATCGGAGGCGTACGGGCGAGAGGTCCGCGACCGCTTGTTCGAGTTCCG
CCGAGGAGGGGTACGACTCGATCCCGGACGACGAGCGGGACGCGTGGTTCGAGCGGTTCAAATGGTGGGGCCT
GTACCACCAGCGGAACGGACAGGAGGGGTACTTTATGATGCGGATCGGGACCCCGAACGGCGTGTCTCGAACCG
GGACAGCTCCGAACTATCGGGCGAGATCGCCGACGAGTACGCTCGCGGTCCC
GGGACGAACCCGATCTTCGGCG
ACGCGTACGCCGACTTCACCACTCGACAGTTCGATCCAGCTCCACTGGATCGAACTCTCGGACGTGCCGGCGAT
CTTCGAGAAGCTCGCCGCGAACGGCCTCTCGACGCAGCAGGCGTGTGGCGACTCGTGGCGGAACATCGTCCGG
AACCCGGTCCCGGCAAGGACGGACAGGAGGTCTGTCGAGGCGTGGCCGGTGATCCCGGACCTTAACCAGACGT
TCAAGGAAAACGACGACCACGCGAACCTCCCCCGAAAGTGGAAAGTGTCCGTGACCCGGTCCGCGGACGGCTC
CGGGCAGGGCGACATCAACGACCTCGCGTTCGAGCCCGGTACAAGTCGATCGACGGAGACGGAGAGGGCGAC
GAGAGCGAGGACGAGTCCGGCTTCAACGTCCGCGTCCGGCGGGGCTCGCGCGCAACGAGCCGCGGCTCGCCC
GCGACATCGACGTCTGGGTGCCACCGGAGCAAGTATCAGATGTCGCCGGCGGGCTCTCCGCGTGTTCGCGGA
CTACGGCGACCGCGAGGACCGGTACAACGCGCGGGTGAAGTTCCCTCGTTCGACGAGTGGGGCGCAGACAAAGTT
CGCGAGACGCTTACGAGGAGTACGTCGACTTCGAGCTCGAACCCGCGGGCGCGACGTTTCGCGAGGAGTACA
CTACAACGCGCGGCGAGGGCGAGCGCAACGACCTGATCGGCGTCCACGACCGAATGACGGCCGGA
ACTTCGT
CGGGCTGAACGTGCTCGTTCGACGAGTGGGTGCTGACGACGTGCTCAACCTCGCCGACCTCGCCGAGGAGTAC
GGTCCCGGCGAGGTCCGGCTCTCGCAGCGCCAGAACGTCAATCGTACCGACGTGCCGGACGACGCCCTTGACG
ACTTCCCGGACGAGCCGCTGCTCGACCACTACTCGCCC
GACCCCTCCCGTTTTCATGCGCGGCTCGGTTCGCGT
TACCGGTACGGAGTTCTGCTCGTGTTCGATCGTTCGAGACGAAGAACC
GGCAGGTCCGGTTCGCCCCTGGCTG
AAGGTCAACGTGACCTCCCCCGGACGTGACGAGTTCACATCCACCTCTCGGGGTGTACCGCGTCTGCG
CGCAGCCGACGATCGCCGACGTGAGCCTGCGCGGGATGAAGACCCGCAAGGACGGGGACCCGGTGGAGGCGCT
CGACGTGGGCCTCGGGCGGGGCTCGGCGAGAACCCGAGTTCGCCC
GGTGGGTACCCAGCGCGTCCCGCT
GACGAGGTTCCGGGCGGATCGCGAACCTGATCGATAGCTTCGCGGCCGAGCGCGACGAGGGCGAGTCTGTTCC
GGGCGTTCGTCGCCCGTCAACGACGACGAGCTAGACGCTTCGTCGAGCCCGAGGAGACCGACTACGAGGA
CCCGATGATGCACAACACGAAGCGCACCTGGTACCCGTACGCCGAGAACGATACGATGGAGGACGCGCCCGCG
ACGCCGGCGGACGACTGA

>fpl:Ferp_2220-Ar nitrite and sulfite reductase 4Fe-4S domain-containing
protein; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

ATGATGGAGATCAAAATTGAGCTTGGCGAAATTGGGAAATTTATAGGTAAGTACTCCTTGGGCAGAGACAACG
GAAATGGATCATTGCACTTCTCAGGATAAAAAATTCGGCTGGGCAAATTACGAGCGACAAACTTAGAGAGAT
AGCGAAGCTTTTCGAGAAAAGTACGGAAGAGGCTACGCTGAAATAACCGACAGGCAGGATATTCAGCTCCACTGG
ATAGACAGCGAAAAAGCTTTGGAATTTTTGAAGAGCTGTACAGTCTCGGCTACACGACCGATCTCTGCGGGC
AGGGATTTCAGCGGAGCTTGCTATGGTGACGTAAGAAATATAGTTTCTTGCCCTCTAAGCGGAAAAATTTCCGA
TTTCGACGTTGCAAAGCACGCAAAGAGCTTACGGAATTTCTTCGGGAAATCCAGAGTTTCATAGATCTTCCG
AGGAAGTTCAAGATCGCTTTCACCGGATGCGGAGGAGATTGCGTAAGGCTCGGAATAAACGATCTCGGAATGT
ACGGAGTCGAGCTCGACGGGAGAAGAGGTTTTCGTTCCCTTCGTAGGAGGAAGCATAGGGGCAAGCCATCCCGG
ACCCACTCTCGCTAAAAATCTCGGTGTTTTCGTTCCGGAAGAGAAAGTTTTTCGAGTTCGTTAAGGCTGTTGTG
GAAATTCACAGAGACCATTCGAGCAGAGAGAGCAAAGCGAAAGCGAGATTCAAAAATCTCGTAAATTTTGGG
GGATCGAGAAGCTTAGAAGCGTGATAGAGGAAAAAATTTGGGAAGCTTGAAAGAGTTGAGGGAATTGAGTTGAG
ACATGCTGATCACAAACGGAAGCGGCGAGCAGGTTAACGGCTTGTACTATTACACTCTGCCTATTATAGGCGGA
GTTCTCAACGCTGAAAAGCTTGAATTCATAGCCGACATGGCTGACAAGCACGGAGAAGGAGAGGTAAGGCTAA
CTCCTCAGCAGAACGTTACGTTTGTGGATGTTAAGGATGTCGAAAAGTTGAGGAGGGATCTTGAGAAGACGTT
CGAGATAAGAGAAGGACAAGTATACTACAACCTCCATAGCCTGTGCCTCGAACTTCTGCGGGAAAACGAGGGAT
GTTACGCGCAAGGATCTTTTGAAGAAATTTGATAGAAGTTTGCGAAAGGAAGGGAGTGAAGGATATCAGAATAA
ACGTCCTCCGGCTGCCACAACGACTGCGGCTGCGTTAACGTTGCCGAATTCGGATTTATTGCGAGAATGGTAAG
AAAGAACGGAAGAGTCGTTCAAGGTTACGACATCTACATCGGCGGAGATTTTGCGAAGCTGAAAATGTGCAAG
CCTTATAAGACTGGCTTGACAGCTGAAGAGGTTATTGAGGAGTTCGAAAAGCTAATATCGAGGTGA

>hut:Huta_0176-Ar nitrite and sulfite reductase 4Fe-4S domain-containing
protein; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

ATGAGTGTATCGAATTCATCCCGCCGGCTGCGCTCGGCGACCGAGACGCGGCGATCGTTCGACGTCCGCGAGG
CGGCGGCGTACACCGACCTCGGTACGTCGCCGGGCGCAGCCAATATCCAGTCGATCGGTTCCGGGACCCGAC
CGGGATCGCAAGGGGGATGCTGCCCGATCCGACGGACCTGGCAACGTGGCTCGGTGAGGCGGAATCAGCCCC
ACCGATCCAGTGATCGCCTACGACGACGACTGTGGCGTCTACGCCGCTCGCTTCTGCGGACGCTTGCGGCGT
TCGGTCACGATGGCGACCTGTATCTCCTGGACGGGGACTACAGCGTCTACGAACGCGAGGCAGACGTCACGGT
CGAACAGCCGGACGTTCGAGCCTGTGCAATACGAACCGGACGACCTCGACGAGACTCTTCTCGCCGACCCGCGAG
GACGTCGAGGCGGCGAGTCGACGGCGAGGCGATCGTTCGTCGACACCCGGACCGAACC GGAGTTTCGAGCAGGCC
ACATTCGCCGGGGCCGTCCAGCTCGACTGGAAGGTTTTTCGTCGACGACGAGACCCGGACGACGACGGAGCGTCGA
AGCGATCGGGTCAACCCCTCGCTGAACACGGCCTCGAACCCGATCGACCGGTCTCCTCTACTGTAACACGGCT
CGCCGACTGAGTTACGTTTTCGCGTACTCGAAGACCTCGGGTACGGGGACGTCAGGTTCTACGAGGGGAGCC
TCGAAGACTGGCTTCGCACCGAGACCGACGACTGGGACCCCGCCGAGATCAAGCGCCGCGTCCGCGAACACGC
CAACCAGGGACCGAGCGGCGGTCAAAGAAGCCCTCGGGGAGGACGCCGCGGCGAAGCTCAAGCTGGTCGGCCTC
TACGGGCAGAAGCAAAGCGGCTATTTTCATGTTCCGGACGAAGATTCGGGGCGGTGTCTTGACAGCCGACGCGG
CCAGGGCGCTCGGGACCGTCGCCGAGGAGTACGCCACGCTGCCCGAAGAGCGCGACCCCAAAGGTCGCCGTT
CGGTGACGGGTACCTCGACGTGACTACCCGTCAGGACGTGCAGTTCCACTGGATCCGAATGGCGGACGTTCCC
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TCTCGTGTCCGGCAGCGGGCGTCCGCCGACGACGAGGTGCTCGACGCCCGCCGGTCCGCCGAGGCGATCACC GA
GGCGTTTTCTGGCCGACCGCCGGTACGCCAACCTGCCCGGAAGCTGAAGGTTAGCGTCAACGGCTGTGCGGGG
GCCTGTGCCAGCCGGAGATCAACGACCTCGGATTCACCCCGCGCGAAGGGCGATCGGGTGGGCTTCAACC
TCGCCCGCGGGGGCGGCTCTCGGACAGCCCCCGCTCGCCAGCGACCTCGATGTCTTCGTGCAACGGGACCA
GGTCGTGGACGTGGTTCGAGCCACGGCGGACCTGTTTCATCGAACACGGGAGTTATCTCGACACGGCAGTCAAT
CGCTGCGCTTTCTCGTCGAGGAGTGGGGGGCCGAACAGTTCCGCGAGGAACTACAGCGCTTTGCCCCCTTCG
AGTTGCAATCTGCCGGTGAGGACCTTGTACGCATCACCAACCCGACCACGTCCGGCTCCACGAGCAGGCCGA
CGGAGACAATTACGTCGGCCTCTCGATCCCGGTTCGGCCGATCGACGGCACGGACTTCCGGGGGATGGCCGAT
CTCGCGGAATCCTACGGGAACGGCGAGATTCGATTGACCACCCAGCAGAACCTCCTGCTTCCGGACGTTGCCG
ATGGGGATCTCGACGACCTGCGGGCCGAACCGTTGCTCGACGAATACTCCCCGATCCCGGGCCGTTACACAG
CGGCGTGTACCTGCACCGGTTCGGGAGTTCTGTAATTACGCCCTTGTGAAACAAAAGCCCGCGCGAAACGC
TGGGCCCGCGAACTCGACGAGCGGGTCGACATCGATCAGGATCGGGTTCGGGCTGCGCTTCAGCGGGTGTACCG
CTTCTGCGCCAGCCACAGATCGACGACATCGGCCTGCGTGGGAAACTCGCCAGACCGACGACGGAGTGGGA
GAGTGTGTGACATCGCCGTCGGCGGCAAACCTCAATGTCGATCCACAGTTCGCGACCTGGATCGCACCACGC
GTCCCCATCGAGTCCGCCCCGATGCGATCGAGCGACTGGTTCGGGTCTTCGAACGCGAAGGGCGCGATTGTG
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TCCTGTGCAAGCCGCTGCAAACGGAGGCCGAACCGATGCCGACTGA

>hut:Huta_1327-Ar nitrite and sulfite reductase 4Fe-4S domain-containing protein; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

ATGAATACAGTCTGAACAGTGGAAACAGGAGAAACACCCCTCGACGTGATCGAGGACGTCACGGAATACGCAG
AGGATGGCCTCTCCTTTTCCGAGATCGAGGATCGGGCGGGCGACGGCGAGTGGGAGCGCCTGAAGTGGGCCGG
GCTGTACGCCACGGTGAGCACGACGATTTCTTCATGAAACGGACGAAGGTGCCCCGGGGTACCTCACGCCC
GAGCAGGCCGAGGTGATCGGCGAGGTGGCCGAGGAATACGCCACCGCTCCAGCCGAACACGGTGGCGAGGACC
AGAACGAAATCTGGGGCGACGCGTATCTCGACATCACGACGCGTCAGGACATCCAGATGCACTGGATCGAGGT
CGAGGACGTCCCCGAGATCTGGGCGACCTACGACGAGGTGCGCCTGACGACGGTCCAGGGGTGTGGCGACTCC
GCGCGAACGTCTGGGGTGTCCGGCCGCCGGCCTGGACGGCCACGAGTGCTTCGACGCCAGCCCGTGATCG
ATGCCGTCAACGAGTTCTTCACGGAGAACCAGGAGTACGCCAACCTGCCCGGAAGTTCAAGATGACGATCAC
CGGCTGTGCCACGATTGTGGCCAGTCCAGATCAACGACGTCGGGCTGACGCCGGCCCGGAAGGAAGTGGAC
GTCTCCGGCGAAGCCGGAGGCTCGTCGGACTCGTCCGACGGTGGGAAGGACATCTACGGCTTCCACTGCAAGG
TCGGCGGGGGCTCTCCGATGGCCCGGATGGCCACGCAGATGGATGTCTTTGTTCCACCCGAAGACGCTGT
CGAGTTCTGTCTGTCATCGCCAGACGTTCAAGGAGCTGGGCGATCGGTTCGAATCGCGGCGTCTGCCGGATG
CGCTACCTTGTTCGAGCAGCTCGGCACCGAGGAGTTTCGAGGCTGCGGTCCGACGGCGCTGTAGCGTGCATCTCC
CGGAGAGCGGCGTTCGACCTCACGAGGGCTACGCCGGCGATCACGTGCGCGTCCACGACCAGAAACAGGACGG
CCTGAAGTACGTTCGGCTTCAACGTGATCGCGGGCCGGATGAGCGGCGAGGAGTTTCGTCGAGGCCGCCCGCGCG
GCGAAGAAATACGGCACCGACGACGCGCTCGATCCGGCTGGCGACCGACAGAACTTCTGATCACGCACATTC
CGGCCGAGAACGTTCGGCGACCTCATGGCCGAACCGTTTCGCCCGGAAGTACAGCCCCGATCCCGGGCCCTTCTC
TCGGGGCGCGGTTCGGCTGTACCGGCTCGGAGTTCTGCAACTACGGCATCATCGAGACGAAGAATCGGGTCTAC
CGGTGGGCGAAGGCCCTCGACCGCCGCATCGAGACGCCGACGATCTGGATGTCTCGTCCGGATGCACATGTCCG
GCTGTTTCGGCCTCCTGCGCCAGCCACAGATCGCCGACATCGGGTTCCGCGGGGAGACGGTGAAGGTGCACGA
TCCCGAGGACTCGACGAATTCGAGGGCGACGCCATCGTCGAGGGGATGGACTTCGGCTGGGCGGCGCGCTC
GGGACCGACAACGAGTTCTCGATTGGGTTCGAGACCGCGGTGCCCGCCCGGGCGGTGATTCCCGCCCTGGAGG
AACTGTTTCGCGGCTACACCGAGGAGCGCAACGAGGGCGAACGGTTCTACGCGTGGTGTGCGCGTGTGAGAA
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CGGGGGTTCGAGTGCATGACTGA

>hut:Huta_1758-Ar nitrite and sulfite reductase 4Fe-4S domain-containing protein; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

ATGCCCTCGAAGGTTCGAGCGATGGAAGGACGAGACTTACGGGATGGAGATACGCGACCACCTCGAACGATTTG
CCGAAGAGGGGTTTCGACGCCATCCCGGAGGACGAACCGGACGCGTGGTTTCGAGCGGTTCAAATGGTGGGGACT
GTACCACCAGCGGAAGGGCCAGGAGAGTTACTTTCATGATGCGCATCGGGACGCCGATGGGCCGGATGACGCC
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ACGCCCTACGCCGACTTCACGACGCGCCAATCGATCCAGCTCCACTGGATCAAGATCGAAGATATCCCTGACAT
CTTTGACGAACTGGAGTCTGCGGGTCTCTCGACCATCCAGGCCTGCGGTGACTCCTGGCGCAACATCGTTCGGC
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TCAAGGGCAACGATCTTTACACGAATCTTCCCCGCAAGTGGAAAGGTTCGCCGTACCCGGCGACCGTTCGCGGTGC
CGGCCAGGGCGATATCAACGACCTCGCCTTCGAACCGGCGGTCAAGGAGATAGACGGCGAGGACATCGCCGGC
TTCAACGTCAACGTTCGGCGGCGGCTTGGCTCGCAAGGAGCCCCGGCTGGCCCGCAGCATCGACGTTCTTCTGCC
GACCCGAGAACGCTGCGGAGGCGCGCCGCGCCTCTCCGGACTCTTCCGGGACTACGGCGACCGTTCGAGGACCG
GTTCAACGCCCGGATGAAGTTCTTCGTCGACGAATGGGGAAACCGAGAAGATCCGGTTCGGTGTCCAGGAGGAG
TACGTCGAGTACGACCTCCCGACGGCGGGCCAGGGCCTCCGGGAGGAGTACGACTACAACGCCGGGCGGTTCGG
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CGGGCGGATGGCCGACAGGACGTGATCGAACTCGCGGACTTGGCCGAGGAGTACGACTCCGAGATGATCGGC
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CCCGAGGGCGTTTCGGACTTCCACATCCACCTCTCTGGGTGTACGGCCTCGTGTGCCAGCCCCAGATCGCCG
ACATCAGCCTCCGCGGGATGAAGACCCGCAAGGACGGCGAGGCGGTTCGAGGCCTTCGACGTCGGGCTGGGCGG
TGGCCTCGGCGAGAACCACAGTTTCGCCGACTGGGTGGAGATGCGCGTCCCCGCTGACGAGGTCCCGGGCTAT
ATCGCCAACCTGCTCGAGGTTTACGAGGCCAACCGTTCGAGGTCAGGAGTCTTCCGGGAGTTTCGTCACCGACC
GCGAGGAGGACGAACCTTCGGGGCTCGCCGAGCCCGAAGAGACGAGTTACGAGGACCCGTACCTCGGCAACAC
GAAGATGACGTGGTATCCCTACGCCGACGAGGAGGAGATGAGCGCCTCGCCAGCACCGACGAACGCCAGCGGC
GAACCCATTCCACCGACGATTGA

>hla:Hlac_1407-Ar nitrite/sulfite reductase hemoprotein beta-component ferredoxin domain protein; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

ATGGCCAACAAAAGGAGGACTGGAATCGGAGATGTACGGCGACGAGGTTTCGCGAGAAGCTACTGGAGTTTCG
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GTTCCACCAGCGCTCGGGCCAAGAGGGCTACTTCATGATGCGGGCTGACGAACGCCAACGGGATCTTGGAGCCC
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ACAGCTGGATCGATCTGACGACCCGCCAGTCCGTCCAGCTCCACTGGATCAAACCTCGAAGACGTCCCGGAGAT
CTGGGAGAAGCTCGAATCGGTGGCGTGACCACCCGGTCTGTCGGGCGGCGACACGATGCGGAACATCTCGGGC
AGTCCGGTCCGCGCAAGGACGCCGACGAGGTGATCGACACGCTCCCGCTGCTCGAACGGTTC AAGAGGAGA
TCCGCGGCGACGACGACCTCTGTAACATGCCCCGGAAGTTCAACATCAGCATCTCCGGGACGCCCGAGGGCGG
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CCCCGGACGAGGCGTACGACGTCGTCCGCGGGTTCGTGCAATTGTACCACGACCACGGCGACCGGCAGGTCCG
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CCCAGTCCGTCCGGTCCGCGCCGAGGAAGCGATCGAGCTCGCCGACCTCGCCGACGAGTACGGTCCGGCGAG
GTCCGGCTCACGCGCCGGCAGAACCCGATCATCGTCGACGTGAACCTCCGACCGCGTGGACGAGCTGCTCGCGG
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GTTCTGCTCGATAGCGCTCGTCGAGACCAAGACCCGAATGGCGACGATGCTCCGCTGGCTCCGCGAGAACGTC
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CGGCGGACATCGGCCTGCTCGGCATGCGAGCGCGGAAGGACGGCGAGATGGTCGAGGCGGTGACATCGGCGT
CGGCGGGCGGATGGGCGAGGAGCCGTCTTCGTGACTACGTCCAACAGCGGGTGCCGCGGACGAGGCCCC
GGAGCGATCCGGAACCTGATCGAGGCGTTCGCGGAGCGCCGGGCGCCGGGCCAGACGTTCCGCGAGTGGGCGG
ACGCGACCGACACCGAGACGCTCGCGGCGCTGTGCGAGCCGAGGAGACGGACTACGTCGACCCGCTCGCTCAC
CGACGCGAAGCAGTCGTGGTACCCGTTCCGCGAGGAGGGGACGACGGCGGCAATCCGGAGGTGGCCTCCTCG
GATGACTGA

>hwa:HQ1116A-Ar nirA; ferredoxin--nitrite reductase (EC:1.7.7.1); K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

ATGCCGACGGACGTCGAACGCTGGAATCAGAGGTGTATGGGCAGGAAATACGCGAGCATCTCTTTGAGTTTCG
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TTCAACGTTTCGTGTTGGAGGCGGTCTTGCTCGTAACGAGCCACGATTTGCTCGTGACATCGATGTTTGGGTCC
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TATGTTGACTTCGAGTTACACACGGCTGGACGTGACGTTCGAGAGGAATACACATACAATACCGGAGATGGTG
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GGTGACGTTGACGAGTTTCATATCCACCTATCAGGATGCACTGCTTCCTGTGCACAACCACAGATTGCAGATA
TCAGCCTTCGAGGGATGAAAACGCGCAAGAATGGGGAGCCTGTTGAGGCTCTCGATGTTGGTCTTGGCGGTGG
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ATAATGATGAGCTTGATTCATTTGTTGCGCCTGAGGAGACCGATTATGAGGATCCAATGATGCACAATACCAA
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>hwa:HQ2212A-Ar nirA; ferredoxin--nitrite reductase (EC:1.7.7.1); K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)
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GAACAACCTCCGCGTCATTGGAGAGGTCGCCGAGAGTACGCTATCGGTCCAGTCTCAAACCCAGAGTTTGGCG
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TCCGCGCTGACGATGACCTTGCAAACATGCCTCGAAAGTTCAACATCAGTGTGACCGGTTGTCGTGAGGGATG
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ACAAAAAACCGAAGTCGTTTTTTGTTGATGATTGGGGGACGGAAAAGATCCGTGACCAACTCCAAGAGTCA
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CTGCCGACATCGGATTTGAGGGAATGCGAGCGCGGAAAGACGGAGAAATGGTTGAGGCGATTGATGTTGGCGT
TGCGCGCGGCATCGGTCTGACCCCTCTTTGTCGAGTGGATCAGACAGCGTGTGCCGGCAGACGAGGTTCT
GGACTCTTGCGGAACCTTCTTGAACGTTTCGACGACACCCGCGAAAAGGGACAAAACGTTTAGACAATGGGTTG
AGGCGACCCAGGAGGAGGTGCTTATCGAAGCCGCGAGCCGGAAGAAACCGATTACGAGGACCCGTGTCTCCA
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>afu:AF0164-Ar nirA; ferredoxin-nitrite reductase; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)
ATGGCAATTGAAGTCGAGCTTCACAACTGCGGGAATGGATGTGGAATACTCCCTCGGCAGAGATGGGGGCA
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GAGGCTGAGGATGCTCTGGAAATCTTCGCTGAGATGGAAAAGCTTGGCTTCACAACAGACCTGTGCAGTCAGG
CTTTTGCCGAAACATGCCACGGTGATGTGAGAAACGCCGTCTGCTGCCCTCTGTCTGGGAAAAGGGATACGA
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AGAGCTGAGAGAAAAGCAGAGGCAAGGTTCAAGAACTTTTTTGAGACTGCTGGATGCGAGTGGCTGAGAAGAG
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TGAGGGCTTGCAGGATGATGGCAGCAACTACTACACCCCTCCTGTGTTTCGACGGTATCCTCGACTCGGAAAGG
CTGAGCTTCACTGCTGAGGTTGCTGAGGAGTTTATGAGGAAATCAGGCTCACACCATGGCAGAACGTTGTTT
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TTTGTGGGAAGGTTAAAGCAGGAAAGCAGCTCTACGACGCTTTCATTACGGCTGGAAGGAGGCGGAGAACCT
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>nph:NP4004A-Ar nirA_3; ferredoxin--nitrite reductase 3 (EC:1.7.7.1); K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)
ATGACGCTGGATATCGACACTATCGCTCCCGAAGCGCTTGCGGACGAGCGGGAGCAGTACACCATCGTCGACG
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GTCGAGCAAGGGGACCCACTCGTCCGCTATGACAACAGCCGCGGCGTTGAGGCGGCTCGATTTCTGCTAACGG
CGGCGGTTTACGGCCACGACGGACCGCTGTATCTCCTTGAGGGTGATTTTCGATGTCTGGCAGCACGACAACGA

GACGGAACGCGGCCCGGGCCGGAGGGTTCTCGGAGTACGGCGCGGTGGCGCTCGATGAGGACGCCATCGTC
AACCCTGCGACCGTTCGAGGCGGCCATCGACGCGGACGAAGGGGCCGACTGGTTCGATAACGCGAACGGCCGGCG
AGTACGAGAGCGCCACCTGCCGGGGCAGTGCATCTCGGCTGGGAGGCCTTCGTTGACGCCGAAACCGACCG
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TCTACGAGGGCGAACTTACCGGTCTGGTGCGGGCGAACTCGCCCGCTGGGACCCCAAGAGCTCTACCACTC
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CGCGGAGGATGTGCGCGACGCCTTCGAGGGGAGTACCCGGTATGCGAACCTCCCTCGGAAGTTCAAAGTCAGT
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CTACAAACGCTCGCCGACATCGCCGAGCGGTACGGCAGCGGCGAGGTCCGGACGACGGCGAACAGAACCTCG
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CCCGGGGCGGTTCTCGCGGGGTATCGTCACCTGTACCGGCGGGGAGTTCTGCAAATACGGCGTTATCGAGACA
AAGAGCCGCGGCTATCGGTGGGCGAAGGAACTCGACGCATGGCTGGACGACCGCGATATCCAGAGTCCGCTG
TCCCTGAAGCCGTTTCGATATTCATATGAGCGGCTGTTTCGGCGTCTGTGTCGCGAGCCACAAATCGGCGACATCGG
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GACCGCGACCGATTTCGTCGACTGGGTCTCCGGCCGCATACCGGTTGGCGAAGTGGCGACGCGGTAAAACGGG
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>nph:NP1146A-Ar nirA_2; ferredoxin--nitrite reductase 2 (EC:1.7.7.1);

K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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GTACCACCAGCGGAAGGGCCAAGAGAGCTACTTCATGATGCGTATCGGGACGCCGAACGGTTCGGCTGACACCC
GACCAGCTTCGGGTTCGTCGGCGAAATCGCCGACGAGTACGCCCGCGGACCCGTCGACAACCCCGAATTCGGCG
GGGCATACTGTGACTGGACGACGAGACAGGCGATTTCAGCTCCACTGGATTTCAGCTGCAGGACGTCCCCGAAAT
CTTCGACAAGCTGGAGGCGAACGGCCTCTCGACGATGCAGGCCTGTGGCGACTCGTGGCGGAACATCGTCGGC
TCGCCGATGACCGGCCGGGACGCCAAAGAGCACATCAACGCGTGGCCGGTTATCAAGGAGCTCAACGAGACGT
TCAAGGGCAACGACGACCACTCCAACCTCCCTCGCAAGTGGAAAGTTCGCTGTACGGGCGACACCCGTGGGTTC
GGGACAGGCCGAAATCAACGACCTCGGCTTCGAGCCGCTGTCAAGGAAATCGACGGCACGGAGACGAAAGGG
TTCAACATCCGCGTTCGGCGGCGGCCTCTCCCGGAAGGAGCCGCGCTTTGCGCGGATATGACGCTCTTTGTCA
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CTTCAACGCCCGCATCAAGTTCCTCGTCGACGAGTGGGGGACCGAGAAGCTCCGGCGCGTGTGCAGGAAGAC
TACGTCGACTTCGAGCTGAAGACGGCCGGCGAGGACCTCCGCGAGCAGTACAGCTACAACGCCGGACGGAACG
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TGCTGGAGTACCACTCGCCGGACCCCATCCCTTCTGCGCGGGTCTATCGCCTGTACGGGACCCGAGTTCTG
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CCCGAGGGCGTCTCCGAGTTCACATCCATCTGTTCGGGCTGTACGGCCTCCTGTGCCAGCCGACAGATTGCCG
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CGGCCTCGGCGAGAACC CGCAGTTTGCCTGACTGGGTTCGAGATGCGCGTGGCCGCCGACGAAGTGGCCGGCTAC
ATCCAGAACCTCCTTGGCGTCTACGAAGCCGAACGGGAGGGCGACGAGTTCGTTCCGGGAGTTTCATTGCCCGCC
ACGGCGAAGACGAGTTGGGCGGCCTCGCGGAGCCGGAGGAGACCTCTACGAGGACCCGTACCTCGAGAACAC

GAAGATGACGTGGTATCCGTACGCCGAGGAGACGGAGATGGACGCCTCCCCGGCCCCGTCGCCGGCTGACGAC TAG

>nph:NP4224A-Ar nirA_1; ferredoxin--nitrite reductase 1 (EC:1.7.7.1); K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

ATGCCGCATAAAAAAGAAGCGTACAAGGAGGAGTTGTACGGTGACACAGTACAGGAGAAAAATCCTCGAGTTCCG CCGACCGCGGGTTCGATTCTATTCCCAGTCCGAGCGCGACGAGTGGTTCTGCCGGTTCAAATTTCTGGGGGCT CTTCACCAGCGCTCTGGACAGGAAGGCTACTTCATGATGCGCTTGACCAACTGTAACGGTCGGCTCGACCCG GGACAGCTTCGAGCAATCGGCGAAGTCGCCGACGAATACGCGACAGGTCCCGAAACGAACCCCGAGTTCCGGCA ACGGGTGGATTGACCTGACGACCGCGCAGTCCGTTACAACCTCCACTGGATACGGCTCGAAGACGTTCCGGATGT GTGGGACAAACTCGAAGCGGCCGGTGTACGACCCGCTCGTCGGGCGGCGATAACAATGCGGAACATCGTTGGG TGCCCGGTTGCCGGCAAGGCCGACGACGAAATCATCGACACCAGCCGATTCTTGACCGGTTCCAAGACGAGA TCCGGGATGATGACGCGCTCTGTAATATGCCGCGGAAATCAACATCTCTATTACAGGGACGCCGGAGGGCGG CGCACAGGACTCGATCAACGATATCGGACTCGAACCAGCACAAAAAGAGATTGACGGCGAGGAGCAGCTCGGA TTCAATGTTTCGCGTCGGCGCGGTCTGGGCGGCCATGAGCCGCGGGTTGCGCGTCCGCTCGACGTCTGGGTCCG CCCCCGACCGTGCGGTTCGACATCGTGCAGCTTTTCGTCGAACTGTACCACGATTACGGGGACCGCGAAAACCG CAGCAAGAATCGGTCACGGTCTTCGTCGATGATAACGGACCCGAATGGATCCGAGAGACACTGCAGGCGGAG TACGTCGACTGGGAACTCAAACCAGCGCGCGGATATGCGGGATAGATACACCTACAATGCCGGGCGTCCCA GCGAAGACGGCGCATTTCGACTACGTCGGCGTCCACGACCAAAAAACGGGAAGAAATGGGTCCGGTCTCAGTGT TGCCTGTGGACGGCTCGAATCACAGGAAGCGATTTCGGCTTGCGGAACTCGCCGCGGAGTACGGTTCCGGGTGAA GTTCGGCTAACCGCGCCGACAGAATCCGCTGATTATGGATGTCGACCCGAACAGGGTTGATGACCTGCTCCGAG AGCCCTTGCTGCACAAACACAGCCCGAACCAGCCCATTCGTCGCGCGCGACCCGCTGTACCGGCACGGA GTTCTGTGGACTCGCCCTAACCGAAACGAAGGCCCGAATGGCCCGGATGCTCCGGTGGCTGCGGGACAACGTC GACCTGCCCGAGGACGTGTGCCAGCTTAAAATTCATTTCTCCGGATGCACGGCCGACTGCGGACAGGCCAACA CCGCCGACATCGGCTTGCTCGGGATGCGGGCCCGAAAGACGGTGAGATGGTTCGAAGCGCTAGATATCGGCCT CCGTGGCGGTATCGGTGAGGACCCATCGTTTGTCAACTGGATTTCGCCAACGCGTCCCCGCCGACGAAGTGCCT GGCGGATCAAAAAACATCGTTCGAAGCGTACGCGGCCACCCTTTGCGGGACAGACGTTCCGTGAGTGGGTG CTGCGACGAGCGACGAGCAACTGATTGAGCTGTGTGAGCCTGTCGAGACGAGCTACGACGACCCGTGTCTCTA CGACGCCAAGCAGTTCGTGGTATCCGTTTCGATGCAGAAAAGCAGGCCACCAAGGGCGTCCAAGGTGCTGACGAC TAG

>hhi:HAH_3043-Ar nirA2; ferredoxin-nitrite reductase (EC:1.7.7.1); K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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CGGCAAGCAGTCGTGGTATCCATTCGACGACGGCGAAAGCCCGGCCCGACCGACGCCGAGGGCCAGCCGATT
TCGGCGGACGACTGA

>hma:rrnAC2992-Ar nirA2; ferredoxin-nitrite reductase; K00366 ferredoxin-
nitrite reductase [EC:1.7.7.1] (N)

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GAACTCCCGACTGCGGGCGAGGATATGCGCGACCAGTACAGCTACAACACCGGGTCCCAGGACGGACACAACG
ACCACGTCCGGATTACGAGCAGAACGACGGCAACTACTACATCGGCCTGAACGTGCTGGTCCGCCGCATGGG
TGCCGACGACGTGCTCGAACTCGCCGAACTCGCCGACGAGTACGGCTCCGGCGAGGTCCGACTGACCCAGCGT
CAGAACATAATCGTCACCGACGTCCCCGAGGAGAACCTCGACGCGTTCACCAGCGAACCCCTGCTGGGAACT
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CGTCGAGACGAAGAACCGCCAAGTGCGGTACGCCCCGCTGGCTCAAGGACAACGTGCAACTGCCCGAGGACCAC
AAGGACTTCCACATCCACCTCTCGGGCTGTACGGCCTCCTGCGCCAGCCCCAGATCGCCGACGTGTCCCTGC
GCGGGATGAAGACCCGCAAGGACGGCGAACC GGTCGAGGCGCTCGATATCGGTCTCGGCGGGCGCCTCGGCGA
CGACCCGCGCTTCGCTGACTGGGTGGAGATGCGCGTCCCGGCCGACGAAGTCCCCGGCGGATCAAGAACCCTC
GTCAACAACCTTCGAGGACGCCCGCGAGGGCGGGCGAGACCTTCCGTGACTTTCGTTGCGGACCGCGACGAGGAGA
CGCTGGCCGACATGGTCGAACCCGAGGAGACGGACTACCACGACCCGTATATGCACAACACGAAGATGACGTG
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TCCGACGACTAA

>hvo:HVO_1788-Ar nirA1; ferredoxin--nitrite reductase (EC:1.7.7.1);
K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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GTACCACCAGCGCAACGGCCAAGAGTCGTACTTTCATGATGCGCATCGGAACGCCGAACGGCGTGCTGACGCCC
GGCCAGACCGAAGTCGTGCGGAGGTCGCCGACGAGTACGCCCGCGGCCCGCCGAGAACCCCATCTTCGGCA
ACGGCTACGTGACTGGACGACCCGCCAGTCGATTACGCTCCACTGGATTAAGCTGGAGGACATCCCGGAAAT
CTTCGATAAGCTCGAATCGGTTCGGGCTGTGACCCAGCAGGCCTGCGGTGACTCGTGGCGGAACATCGTCGGC
TGTCCCGTTCGCCGGCAAGGACAAACACGAGCACGTGACGCGCTCCCCGTGCGGATGGAGCTCAACGAGACGT
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CGGTACGGGCGACATCAACGACCTCGCGCTCGAACCCGCGACCAAGGAAATCGACGGCGAGGAGACGAAGGGC
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CGCCCAGCAGGCCCCCGAGGTGTCCGGAGCCATCTCCGCGTGTTCGCGACAACGGCGACCGCGACAACCG
CTACAACGCCCGCATCAAGTTCCTGATGGACGAGTGGGGCGCGGAGAAGTTCGCAACGTCTCCAGGAGGAG
TACGTCGACTTCGAGCTGGAGACCGCCGCGGAGGACCTGCGCTCGGAGTACTCCTACAACCTCCGGCTACGCCG
ACGGCGGCCACTCCGACCACGTCCGCATCCACGAGCAGGCCGACGGCAACTACTACGTCCGACTCGACGTGCT
CGTCGGCCGCATGGGCGTCGACGACACGAAGGAACTCGCCCGCTCGCCGACGAGTACGGCTCCGGCGAGATT
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CGGCGGCCTCGGCGAGAACCCGAACCTTCGCCGAGTGGGTACCCAGCGCGTCCCCGTGACGAAGTGCCGGGT
GCCATCAAGAACCTGCTCGCGAACTTCGAGGAGCGCCCGGAGGGCGACGAGACGTTCGCGAGTTTCGTCGCC
GGACGGACGAAGAGGAGCTGGCCGAAC TAGTCGAACCCGAAGAGACCAGCTACGAGGACCCGATGATGCACAA

CACGAAGCGCACGTGGTACCCCTACGCCGACGACGACGGCCTCGACGCGAGTCCCGGCCGACCCGCGCCGAC
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>hhi:HAH_0254-Ar nirA1; ferredoxin-nitrite reductase (EC:1.7.7.1); K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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AGGCCTACTGTGACTGGACGACCCGCCAGAGCATCCAGCTCCACTGGATCAAACCTGGAGGACATCCCGGAGAT
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TCAAGGGCAACGACGACTACTCGAACCTCCCGCGCAAGTGGAAGGTGCCATCGCCGGCTGTGACGAAGGCTG
TGGCCAGGGCGACATCAACGACCTCGCCTTCGAGCCCGCCGAGAAGGACGGCGAACTCGGCTTCAACGTCCGT
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GAACTGCCGACCCGGCGGAGGACATGCGCGACCAGTACAGCTACAACACCCGGTCCCAGGACGGGCACAACG
ACCACGTCCGGATTACGAACAGAAGGACGGCAACTACTACGTCGGCCTGAACGTCTTGGTCGGCCGCATGGG
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>hma:rrnAC2625-Ar nirA1; ferredoxin-nitrite reductase; K00366 ferredoxin-
nitrite reductase [EC:1.7.7.1] (N)

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GACCAGCTCCGGGCTATCGGCGAAGTCGCCCCGCGACTACGCGAAGGGGCCAGCGGAGAACCCTGAGTTCGGAA
ACGGCTGGATTGATTTACGACACGACAGTCCATCCAACCTGCCTGAACTCGAAGACATCCCGGAAAT
CTGGGAGAACTCGAAGCCGTCGGCGTTTCTCGCGCTCTGCGGGCGGGGACACGATGCGGAACATCTCCGGT
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GCGACGACAACGACCTCTCCAATATGCCCGGAAGTTCAACATCTCGGTGACGGGGTGAAGCAGGGGTGTGC
CCAGGACAGCATCAACGACATCGGGCTGGAGCCGGCCACAAGTTCATTGACGGCGAGGAAATCGAGGGGTTC
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CCGAACACGCCGTCGAGACGGTCCGTGCTTTTGTGCGAGTACTACCACGAGGCGGGCAACCGTCCAGAACCCTC
GAAGAACC CGC CCGGTTTTCGTCGACGAACATGGGACCGACGCCATCCGCGAGGAACTTGACGAGCGGCTG
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ATTGCCAACATCGTTGAGGCATACGCCCGCTTCGCTCGGAGGGGCGAGACCTTCCGGGAGTGGGTGACGCCA
CCGGCCACGAAACAATCGTCGAGCTGGCCGAACCGGAGGAAAGTCGAGGGGTACACCGACCCATGTCTGGCCGA

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TCGGCGGACGACTGA

>csy:CENSYa_0360-Ar ferredoxin-sulfite/nitrite reductase (EC:1.7.7.1);
K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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GGTTGTTCTCGAGGACATATCCGAGATAATGAGGGGCCCTCGCCGAGGTGGGCATGACCAGCAGGGAGGCCTGC
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CGTACGCGCAGGCGACCGGCACGTTTTCTGCGCAATCCAATGTGCCAGAACCTCCCCGCAAGTTCAAGTT
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ATCAACGGGGTTCATGCAGCGCGGGTTTATGATATTCCTCGGAGGTGGACAGGGAAACAAGGCATTTTTGGGCC
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GCTCGGCGACAGAAAAAGATGGCGCGCAACCGCCTGAGATATTTGGTAAGCGAGATGGGGTGGGAAAAGTTC
CGGAATTTAGTCTCAAGGAGAGGGCGCTGGCCCCGTCCAACCAGTCCGTGCTGACCCAGCTGGATAACCGATG
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CCGCTGGTTCGCACACCAATACGATACCGCAAAGCAGGACGGCTACCCTCGGTATTCATAACGCTCGAAGCT
GGCGACATAACGGCGGCCAGCTCAGGTCGGTTGCGGCACTTTGCAGGGACTATTCCGCGGAGTGAAGGCGA
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CCGGAAGAGGAGAGTGCCTCTTGA

>hmu:Hmuk_0435-Ar Ferredoxin--nitrite reductase (EC:1.7.7.1); K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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GGACAGCTGGAAGTGATCGCGGAGGTCGCCGACAAGTACGCCCGCGGCCCGAGGAGAACCCGGAGTTCGGCG
ACGCCTACTGTGACTGGACGACCCGCCAGTCGATCCAGCTCCACTGGATCAAGATCGAGGACATCCCCGAAAT
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TGTCCCGTCCCGGCAAGGACAAACACGAACACATCGACGCCTGGCCGATCGCCGAAAGACCTCCACGAGACGT
TCAAGGGCGACGACGACTACGCGAACCTCCCGCGCAAGTGAAGGTCTCGATCACGGGCTGCGATCAGGGCTG
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GTCGGCGGGCGCCTCTCCCGAAAGGAGCCCCGCTCGCGCGTGACATCGACGTCTGGGTACCCCCGAGAAGG
CGGCCGACATCGGTACCGGATGTCCGCACTGTTCCCGGAGTACGGCGACCGCGACGACCGGTTCAACGCCCG
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GAGTTCGCGGGCCGGCGAGGACATGCGCGACACAGTACACCTACAACGCCGGGGCAACGAGCACGGCGACC
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TACAGTCCCTGGCAGATCCCGAAGAGACGAGCTACGACGATCCGTACCTGGGCAACACGAAGATGACCTGGTA
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GACGACTGA

>hxa:Halxa_1302-Ar Ferredoxin--nitrite reductase (EC:1.7.7.1); K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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CAGGCCGAGGTCATCGGGGAATGCGCCACCGACTACGCCACCGCGCCCCGAGGAGTACGGCGGGCAGGAACAGA
ACGAGCTCTGGGGCGACGCCTTCCTCGACATCACGACCCGGCAGGACATCCAAAAGCACTGGGTTCGAGGTCTC
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GAGGGCGTGATCCCGGCGCTCGAGCAGCTGTTTCGACGCTTACAACGAAGACCGCAACGACGGCGAGCGCTTCT
ACGAGTGGGCCCCGTCGCGTCGACAACGAGCGACTTCGGACGCTCATGACCGACGCCGACGCGCCGGTTCGCACG
AGGTGTTGCCCATGGAGACTGA

>hxa:Halxa_1554-Ar Ferredoxin--nitrite reductase (EC:1.7.7.1); K00366
ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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GGTCTTCCAGCAGCGCTCCGGCCAAGAGGAGTACTTCATGATGCGGCTGACCAACGCCAGCGGCATCTTAGAG
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AATCTGGGAGAAACTCGAGGCTGTTCGGCGTCCACTCCCGTTCGGCCGGCGGGCGACACGATGCGCAACATCTCG
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TGCGCGGGGACGACGCCCTCGCGAACATGCCCCGGAAGTTCACATCAGCGTCTCGGGCTGCCGGGTTCGGCTG
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CGCCGCTTCGACGACTGA

>nmg:Nmag_1601-Ar Ferredoxin--nitrite reductase (EC:1.7.7.1); K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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>hje:HacjB3_01275-Ar ferredoxin--nitrite reductase; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)

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AATCCCCTGATCATGGACGTTCCCGAGGCCGATCTCGACCCGTTGCTCTCCGAACCGGTACTGGAGACCCACA
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>pai:PAE2577-Ar ferredoxin-nitrite reductase; K00366 ferredoxin-nitrite reductase [EC:1.7.7.1] (N)
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>tba:TERMP_00352-Ar NADH oxidase/nitrite reductase; K00362 nitrite reductase (NAD(P)H) large subunit [EC:1.7.1.4] (N)
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TGA

>ton:TON_0865-Ar NAD(P)H:rubredoxin oxidoreductase; K00362 nitrite reductase (NAD(P)H) large subunit [EC:1.7.1.4] (N)
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>tsi:TSIB_1897-Ar NAD(P)H:rubredoxin oxidoreductase; K00362 nitrite
reductase (NAD(P)H) large subunit [EC:1.7.1.4] (N)
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>hhi:HAH_1235-Ar nosZ; nitrous-oxide reductase (EC:1.7.2.4); K00376
nitrous-oxide reductase [EC:1.7.2.4] (N)
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>hma:rrnAC0390-Ar nosZ; nitrous-oxide reductase; K00376 nitrous-oxide
reductase [EC:1.7.2.4] (N)

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>hbo:Hbor_30430-Ar nitrous oxide reductase apoprotein (EC:1.7.99.6);
K00376 nitrous-oxide reductase [EC:1.7.2.4] (N)

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>fpl:Ferp_0128-Ar nitrous-oxide reductase (EC:1.7.99.6); K00376 nitrous-
oxide reductase [EC:1.7.2.4] (N)

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>hla:Hlac_1165-Ar nitrous-oxide reductase (EC:1.7.99.6); K00376 nitrous-
oxide reductase [EC:1.7.2.4] (N)

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>hxa:Halxa_1765-Ar Nitrous-oxide reductase (EC:1.7.99.6); K00376 nitrous-
oxide reductase [EC:1.7.2.4] (N)

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>pcl:Pcal_1928-Ar nitrous-oxide reductase (EC:1.7.99.6); K00376 nitrous-
oxide reductase [EC:1.7.2.4] (N)

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>hah:Halar_1529-Ar Nitrous-oxide reductase (EC:1.7.2.4); K00376 nitrous-
oxide reductase [EC:1.7.2.4] (N)

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>hbo:Hbor_35040-Ar respiratory nitrate reductase alpha subunit apoprotein; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)
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>vdi:Vdis_1441-Ar nitrate reductase subunit alpha; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)
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>fpl:Ferp_0311-Ar nitrate reductase, subunit alpha (EC:1.7.99.4); K00370
nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)

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>sia:M1425_0828-Ar nitrate reductase, subunit alpha; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)

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>pas:Pars_0499-Ar nitrate reductase, alpha subunit; K00370 nitrate
reductase 1, alpha subunit [EC:1.7.99.4] (N)

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>pcl:Pcal_1907-Ar nitrate reductase, alpha subunit; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)

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>sim:M1627_0832-Ar nitrate reductase, alpha subunit; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)

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>hhi:HAH_1798-Ar narG; nitrate reductase subunit alpha (EC:1.7.99.4);
K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)

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>hma:rrnAC1199-Ar narG; nitrate reductase subunit alpha; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)

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>ape:APE_1288.1-Ar narG; nitrate reductase alpha subunit; K00370 nitrate
reductase 1, alpha subunit [EC:1.7.99.4] (N)

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>hvo:HVO_B0164-Ar narG; nitrate reductase, catalytic subunit
(EC:1.7.99.4); K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4]

(N)

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>htu:Htur_1649-Ar molybdopterin oxidoreductase; K00370 nitrate reductase
1, alpha subunit [EC:1.7.99.4] (N)

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>hxa:Halxa_3206-Ar molybdopterin oxidoreductase; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)

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>hhi:HAH_4416-Ar hypothetical protein; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)

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>hla:Hlac_1335-Ar DMSO reductase family type II enzyme, molybdopterin
subunit; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)
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>hmu:Hmuk_2470-Ar DMSO reductase family type II enzyme, molybdopterin
subunit; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)
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subunit; K00370 nitrate reductase 1, alpha subunit [EC:1.7.99.4] (N)
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