

Additional file 2: Detection of Fnr binding sites in the upstream regions of *nap*, *nirS*, *nor*, and *nosZ*. The putative Fnr binding sites in the promoter regions are indicated in yellow.

>MGR_4000_5' <i>nap</i> operon ATGTGGACCACAATCCCAAGACCGCCGAGATCGCCCCGCCATCATCGGCCTGAGTCGCGGCCTC AACCTGGAAGTGGTGGCCGAGGGCTGCGAGATCGCCGCCATATCCAGTTCCTCAAGGATAATGG CTGCGACACTGTGCAGGGGTTCTTCTATTCCCAGCCGTTCCGGCAGAGCAATTCAGGCCATGCT GGCCGATGGTTTCTGCGCGGCCAAGCCTGAGCGGCTAAATCACCAATCACTGATATTTGAATAAC CAAGTAACGGGGTCGGAAAAGACCCTGCTTACTGTGTGGTCTTCTTGACCAAAATCAAATGCGATT CGGACCGATGGGTCCACTCTGGCGGTGCCGGCTCTTCCGTTCCGGAAGGCCTGCGATTACGGGGCC GTTATG
>MGR_1052_5' <i>nirS</i> CCCCGAACAGGGACGCCCCCAGTATTTTCATTTTGGACAGCCGGCTGAACAGTGACTGATTGGAAG CCATGGCTTTAACCCCGAGGGTCTCCTTTTATTCCGGCATTATTTATGGCGCTTGTAACACGCCCCCT AGACCTGAACCTTGACGTTGGACAAACCGTCACCGCCAATCACGGCCAGTGCCAGACCCATATCCC GACCTGCCTGTTGGACTTTGTGACATTGGTCAATTGGCTTTGACGCATCAAATGCTGATGTTTCGTC TGCCGATGACTTTTCGATCGCCTATTTGACTTTGGTTAAAGTCGCTGGCCGACCAAGCGCCCAAGG TGGCCCCACTCGATACGCCGTGCTCTCAAAGGGGGGAGCGGAGCGATCATTATCAAGTGGAGGTA AAGG
>MGR_3484_5' <i>nor</i> operon GGGCCGATCTTGCCCGCCAGACTGGCCGGCCCCCAGCCGATCTCATCGGCGAACGCGCCCAATCC CAACACTACCACCAGATAGACGATGACCAGCGGCAGCCATCGCATCAGCCCAAAGCCCGCCGGTC CCACCATCAGTGGGATGACGCTGTCGTCCTGACCGGTTCCGGCGGTGCCATGGCTTGCGCATGGGCG GCATTTTCGCCGGTGACGCCCGCTTTGTCTCGGTCTTTCGACACCAGCTTGACCAACGTTAAAGCTG ACCAATCGTCTGGGTCATAGGGTCATGGTGACGGGGGAGCCCAAGGTTCCCGCGTGTGAGTTCAG GGTGCGACCACCGCGGGGGGAGTTTCCCGGTGGGTTGATCTCAAACCCTTGGAACCCCTTAGG AGCGACC
>MGR_2761_5' <i>nosZ</i> CCCAGCAGATCAAGGGCGGCAGCCATGGTCGACAATGCGGTGCGGGCAGACGTGCGGGCAGAAGG TGTAGCCGAAGGCCATCATCCGCACCTTGCCCTTGAAGCTTTCGTCATTGACCCGCTTGCCGTCGTG GGTTTCCAGCAGGAAACGGCCTGAAAATCCTGGGCTTGTGCGGGCAGTGCCGTCAAAGCCAGGG CGCCAGCCAGCATCAGGGAACCGAGCTTCATCACGTGCACTCCGCTTGCCGTGTCGTTGAAGGCA GTGAAGCAGATACCGTTTCACGCGACTTGATCAAGGTCACGGCTGGGTCATTAGCGGGCGCGCA TGTTTGCTGGCGAAGTGTTTGGGTAACCTCTGTCCCCTTTAAACAGAAACAAGGTGGGGAAAATGAA TCGTACA