

Supplementary Materials:

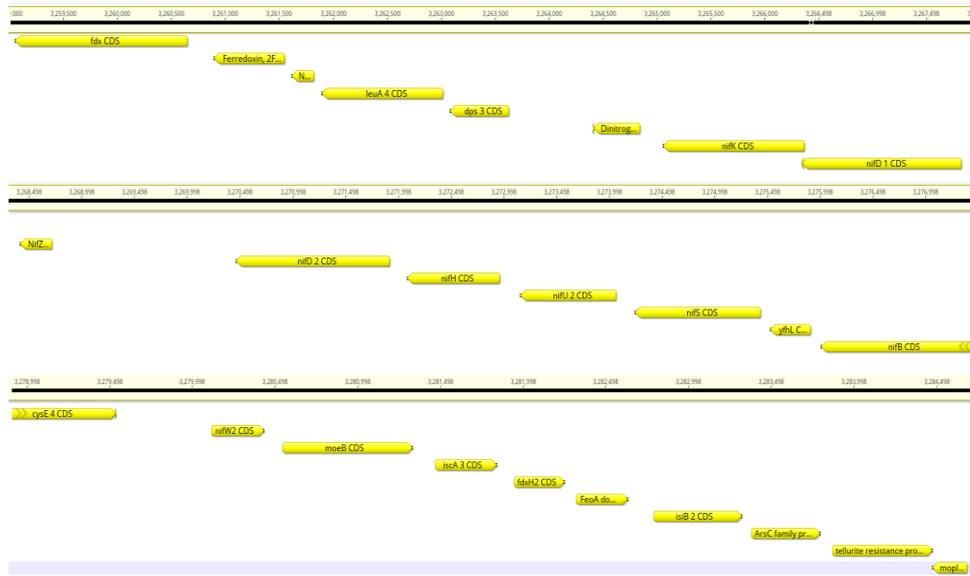


Figure.S1 Gene cluster of strains in this study

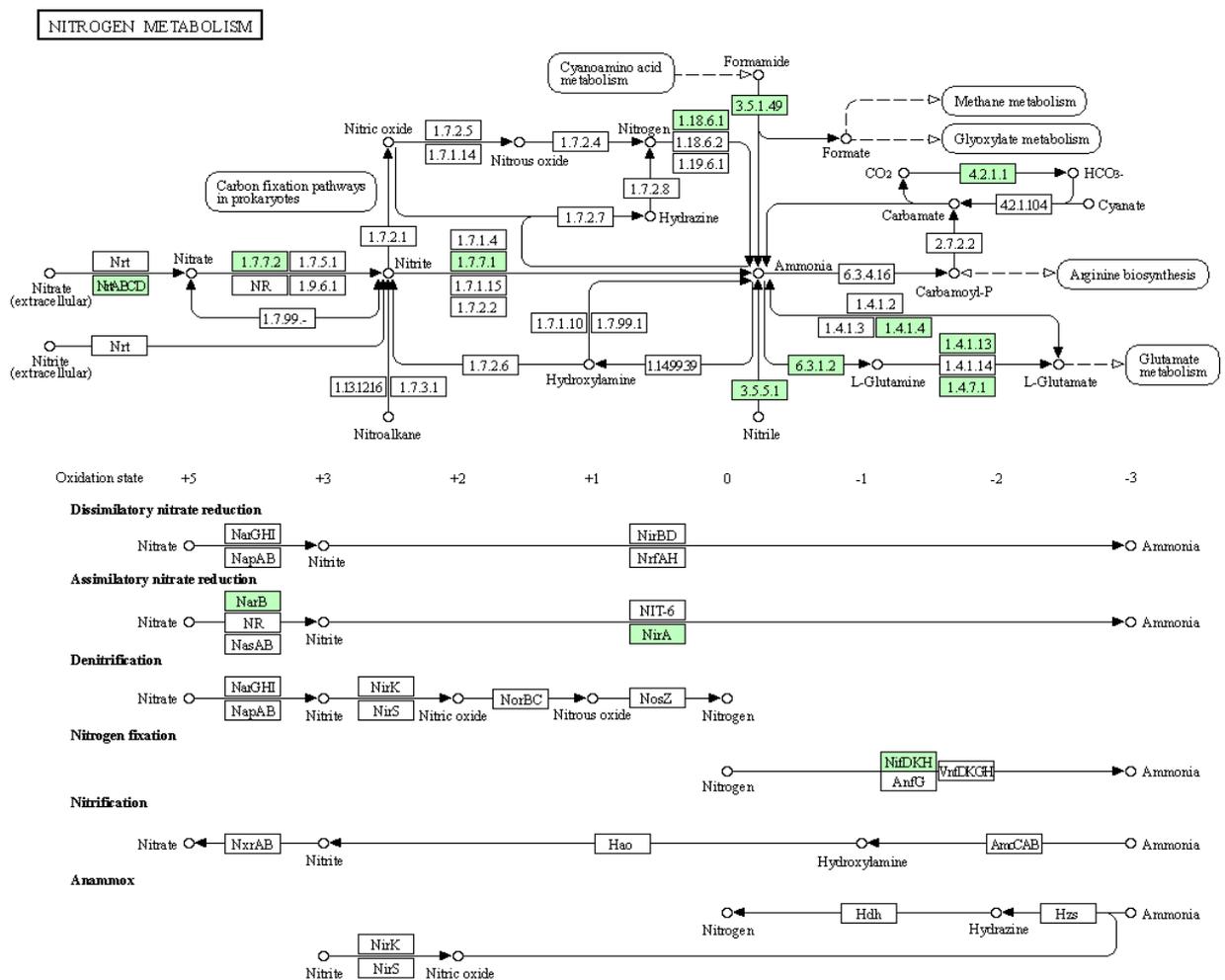


Figure.S2 KEGG pathway of nitrogen metabolism for strain B121

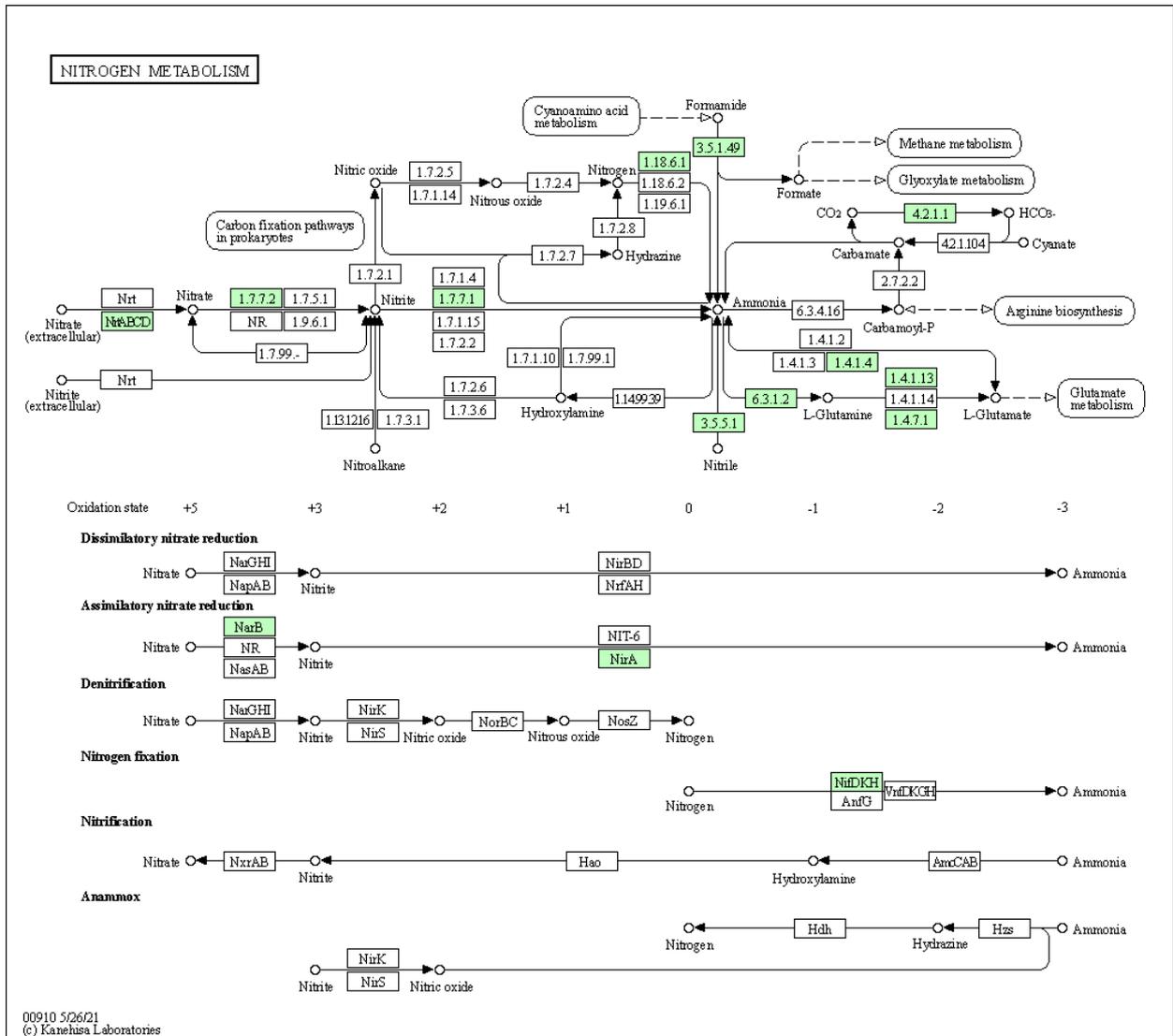


Figure.S3 KEGG pathway of nitrogen metabolism for strain A183

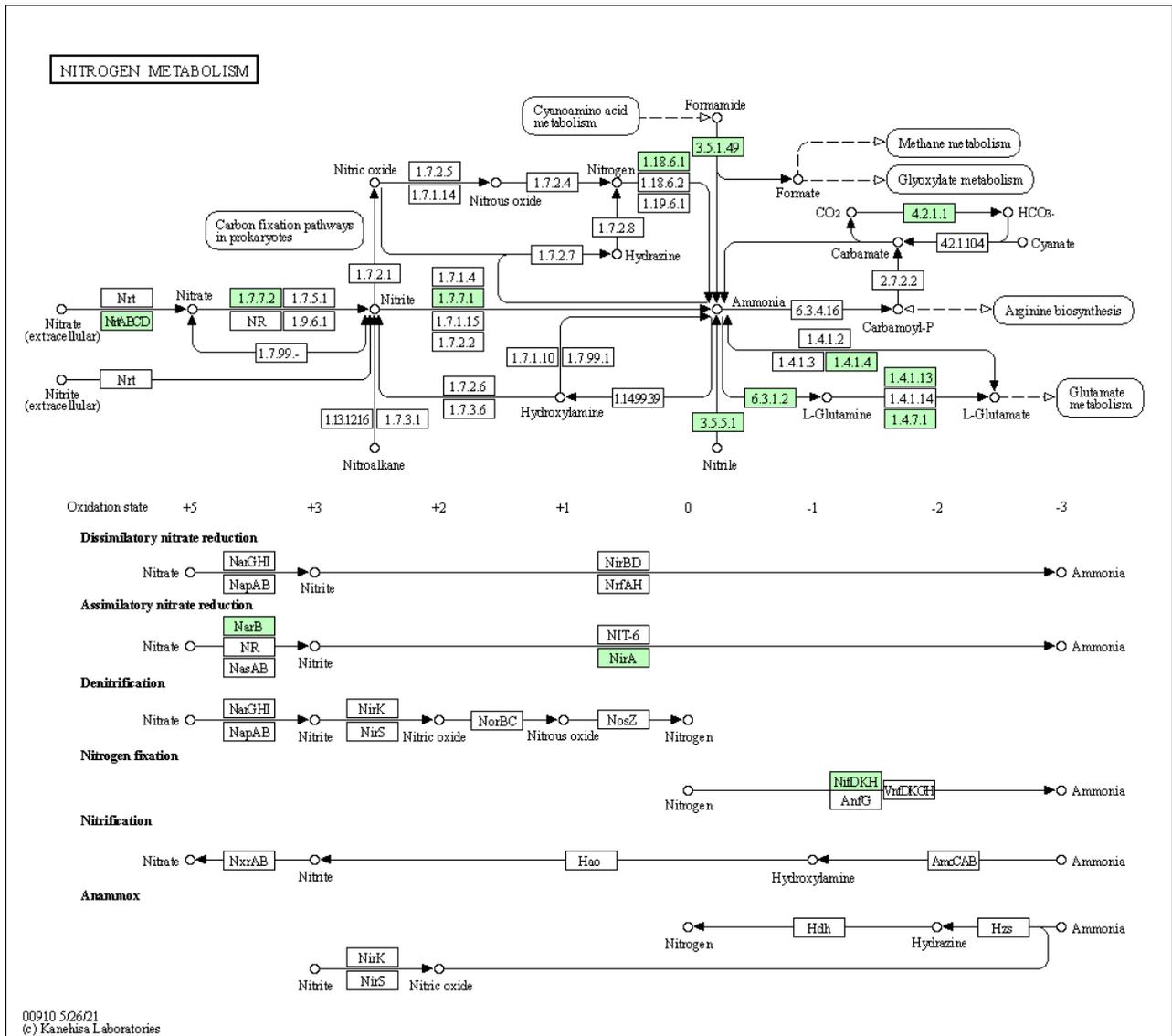


Figure.S4 KEGG pathway of nitrogen metabolism for strain *Thermoleptolyngbya* sp. O-77

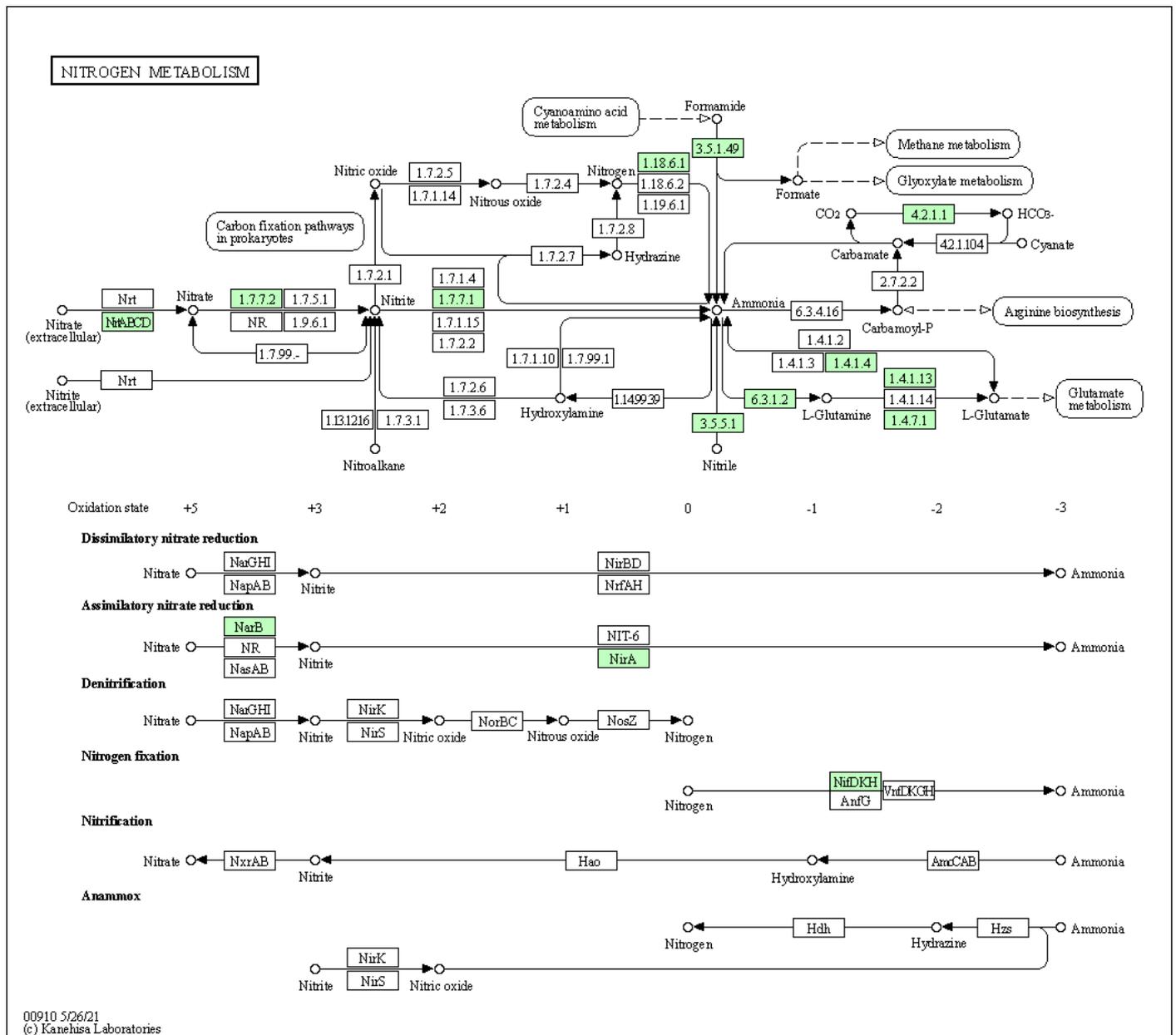


Figure.S5 KEGG pathway of nitrogen metabolism for strain *Thermoleptolyngbya* sp. C42_A2020