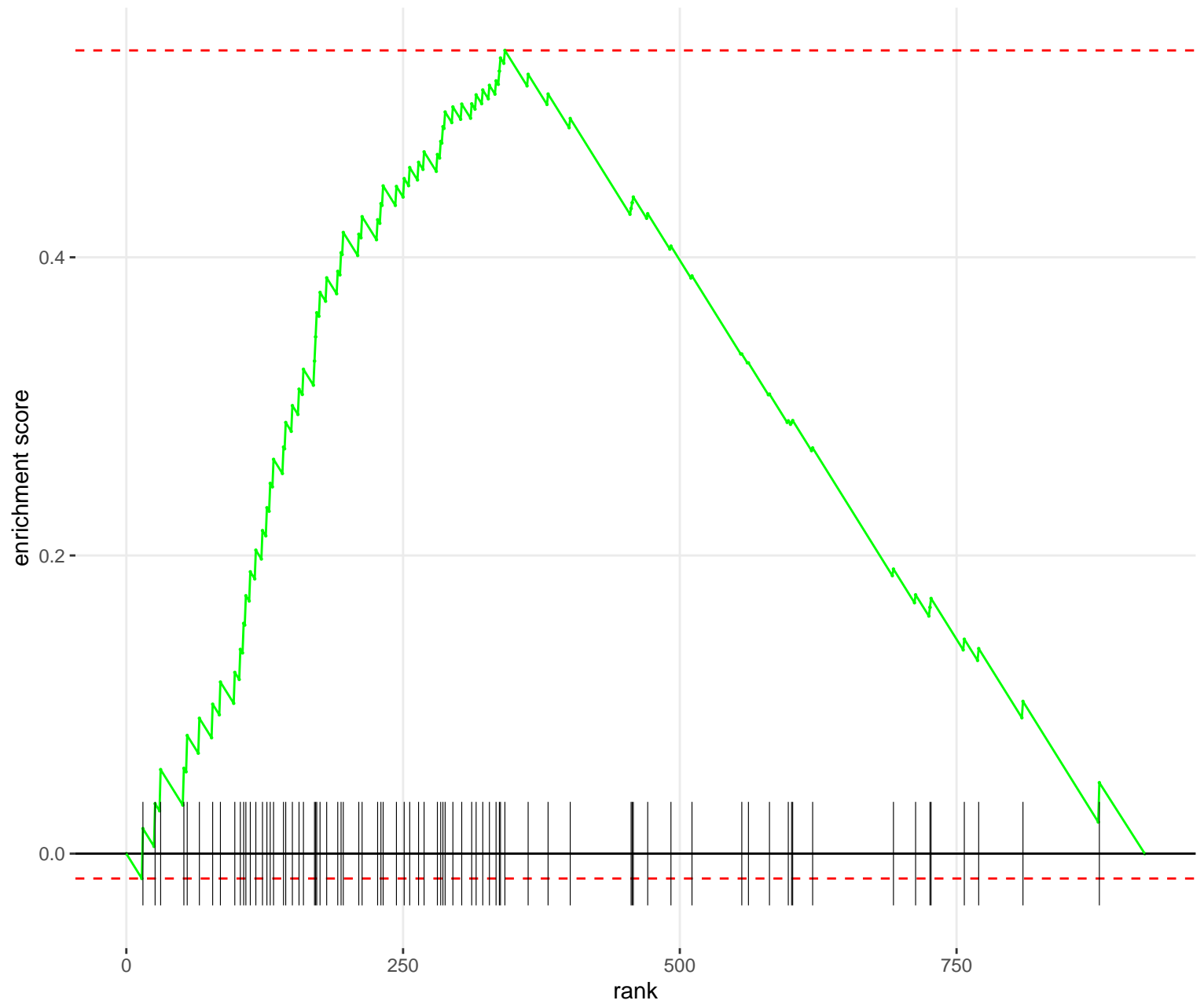
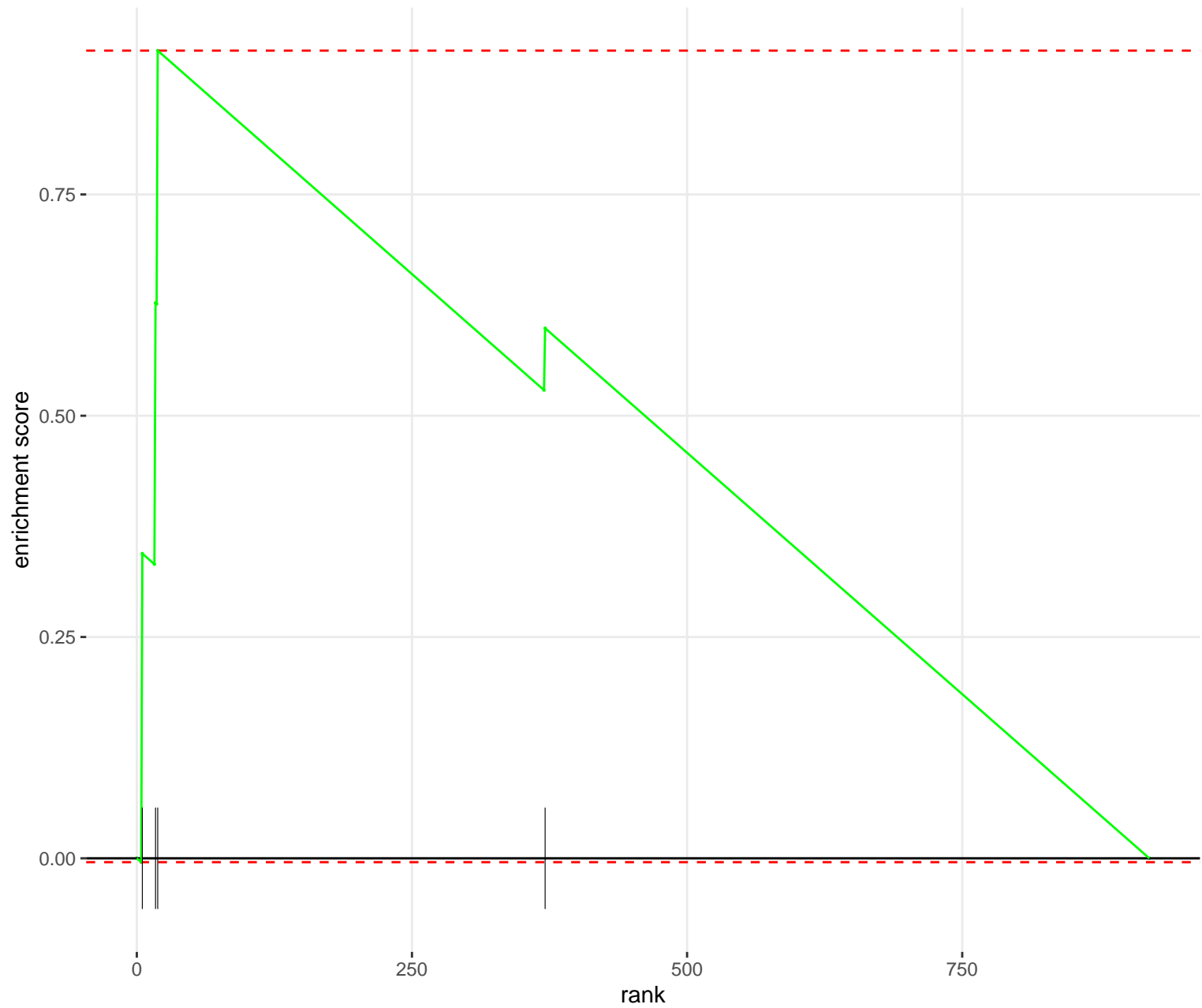


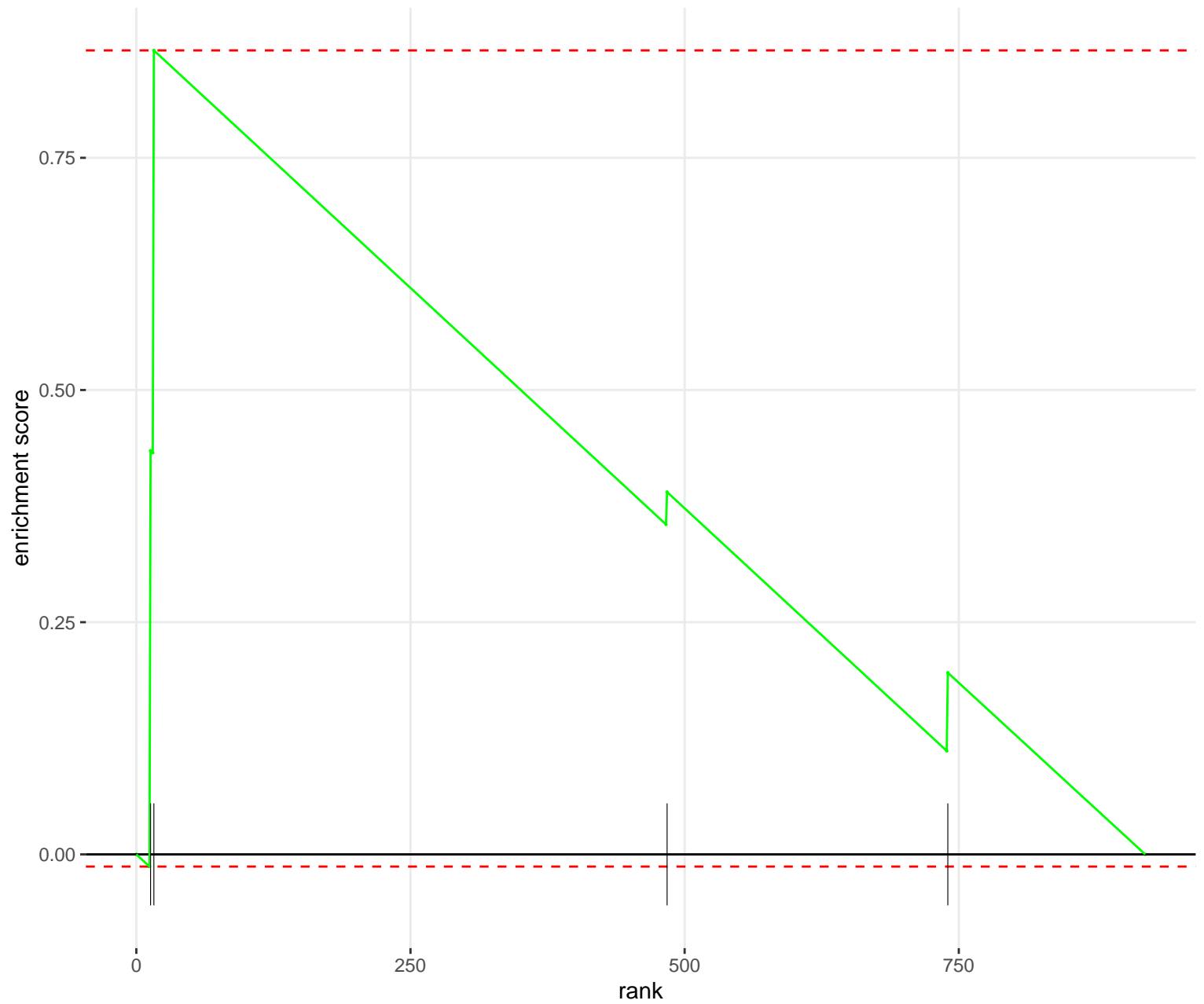
tRNA charging



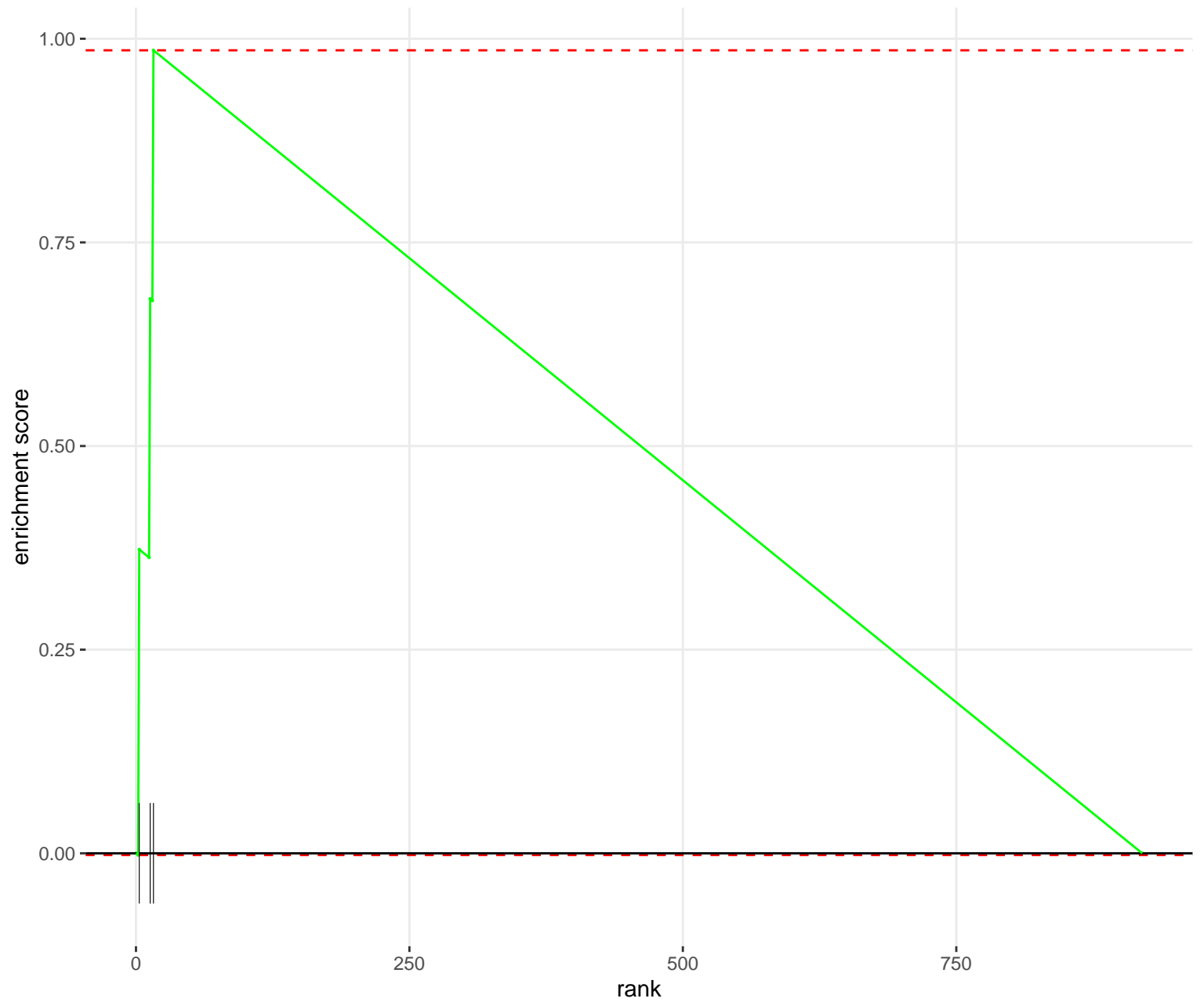
UMP biosynthesis



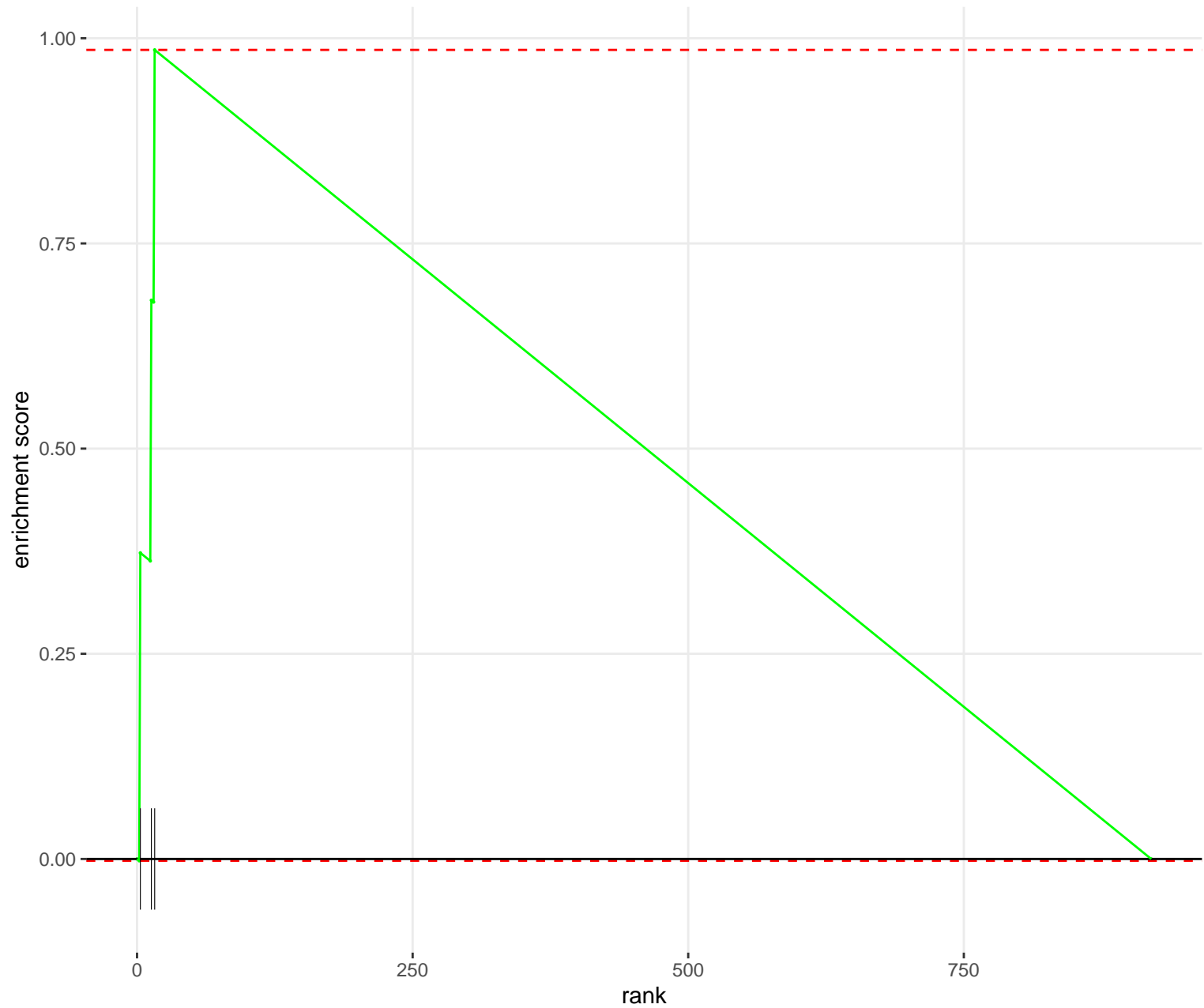
superpathway of tetrahydrofolate biosynthesis and salvage



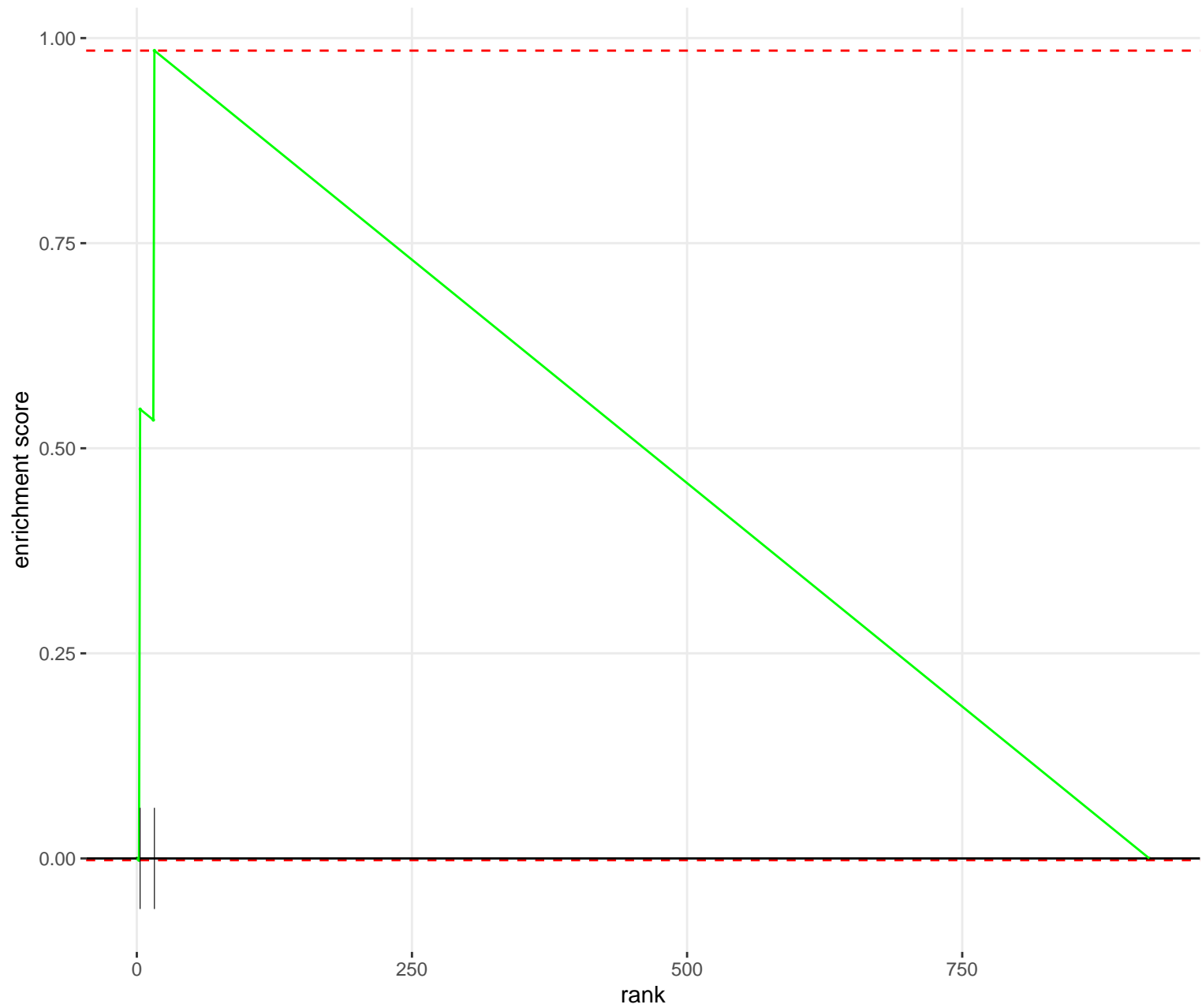
5-aminoimidazole ribonucleotide biosynthesis I



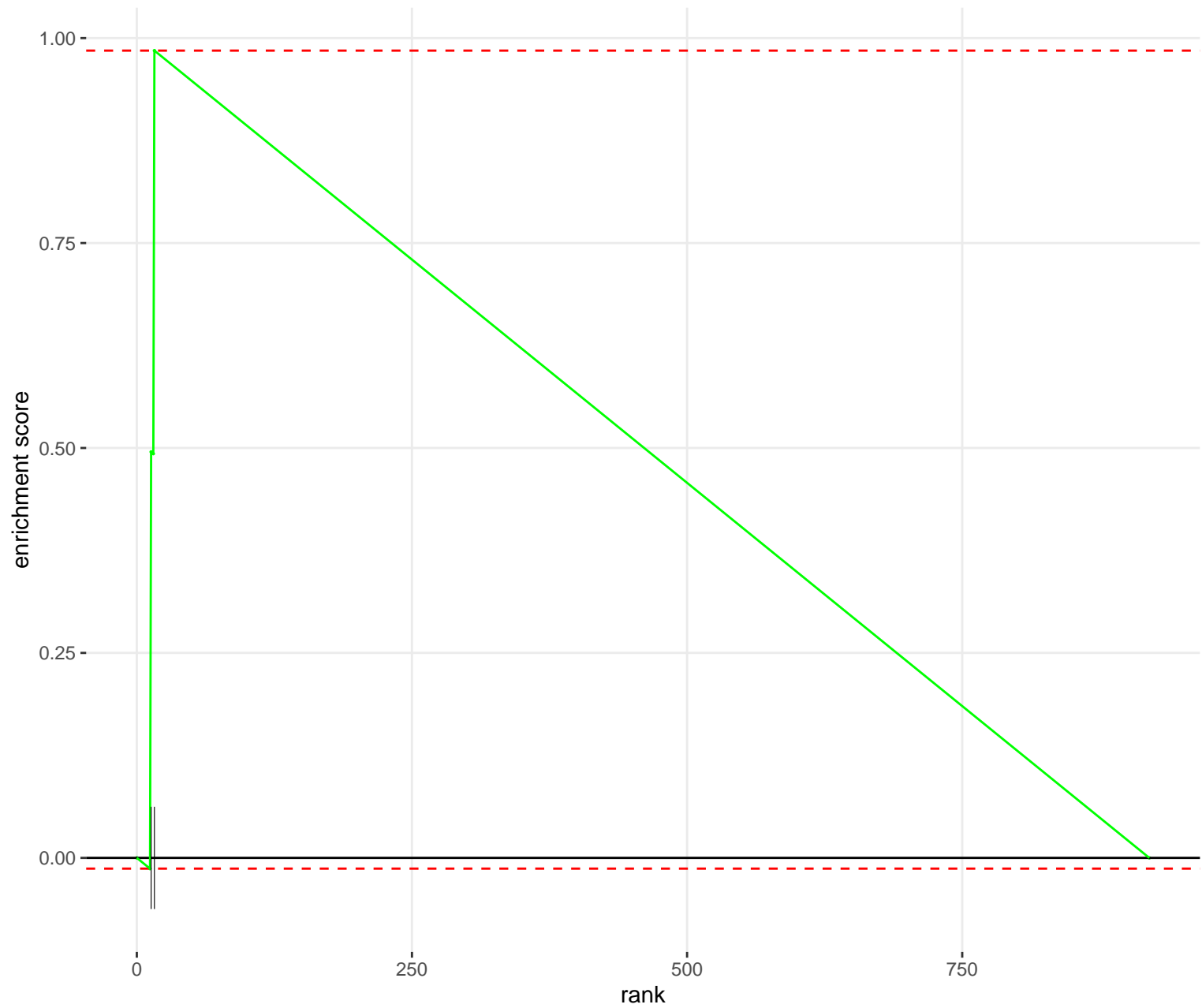
superpathway of 5-aminoimidazole ribonucleotide biosynthesis



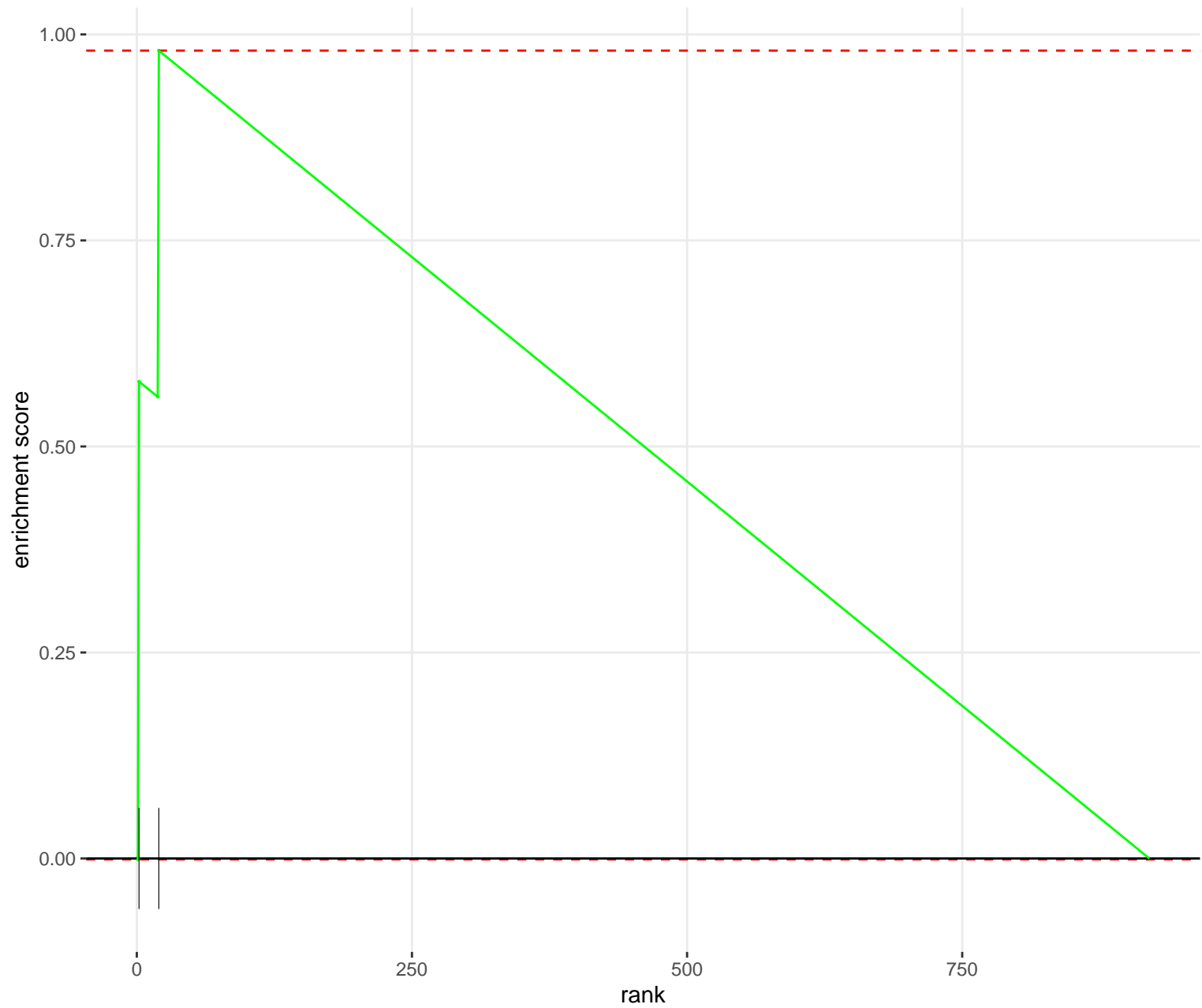
5-aminoimidazole ribonucleotide biosynthesis II



"tetrahydrofolate salvage from 5,10-methenyltetrahydrofolate"



inosine-5'-phosphate biosynthesis I



succinate to cytochrome *bo* oxidase electron transfer



succinate to cytochrome *bd* oxidase electron transfer

