MUTATED TRNA FOR CODON EXPANSION

ABSTRACT

In some embodiments, the present disclosure relates to a mutated tRNA in which the first position of the anti-codon has been changed into lysidine or agmatidine and a translation system containing the mutated tRNA. In a specific embodiment, the present disclosure provides a mutated tRNA which is capable of selectively translating codon NNA. In another embodiment, the present disclosure provides a translation system which is capable of translating two or three kinds of amino acids from one codon box. In still another embodiment, the present disclosure provides a novel synthesis method for lysidine diphosphate, agmatidine diphosphate and derivatives thereof.

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