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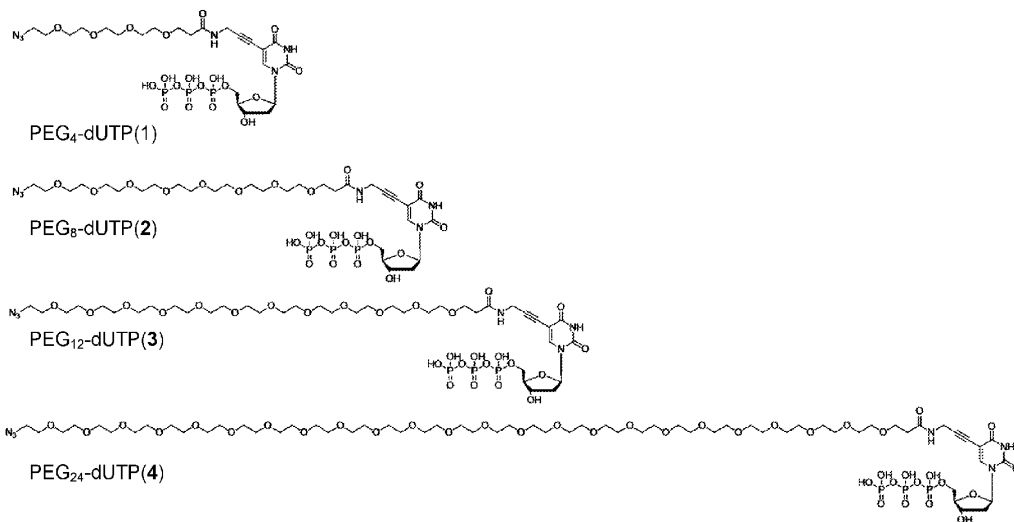


FIG. 1A

(57) Abstract: Disclosed herein include methods and compositions for nucleic acid synthesis using a terminal deoxynucleotidyl transferase with deoxyribonucleotide triphosphates each comprising a modified base with a photocleavable carbon chain moiety that enables single incorporations when present.

[Continued on next page]

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