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(54) **COMPOSITIONS AND METHODS OF USING CHONDROITINASE ABCI MUTANTS**

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CPC ***C12N 9/88*** (2013.01); ***C12Y 402/02021*** (2013.01); *A61K 38/00* (2013.01); *C12Y 402/0202* (2013.01)

(58) **Field of Classification Search**

CPC A61K 38/00; C12Y 402/0202; C12Y 402/02021; C12N 9/88

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See application file for complete search history.

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(57) **ABSTRACT**

The present disclosure relates to protein and nucleic acid mutants of chondroitinase ABCI. Such nucleic acid mutants encode for chondroitinase ABCI mutant enzymes exhibiting altered chondroitin lyase activity or increased resistance to inactivation from stressors including UV light or heat. Methods of using such nucleic acid mutants encoding chondroitinase ABCI mutant enzymes is also provided.

16 Claims, 3 Drawing Sheets