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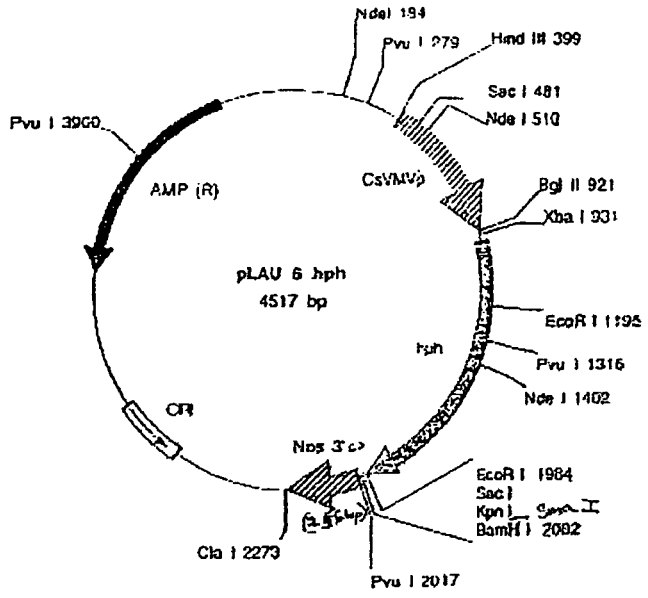
(54) Title: A PROCESS FOR GENERATING CYTOPLASMIC MALE STERILE LINE IN RICE AND OTHER CROPS BY RNA EDITING



(57) Abstract: The present invention relates to a cytoplasmic male sterility (CMS) transgenic plant prepared by RNA editing for expressing unedited nad 9 gene disenabling ATP production in the mitochondria of plants and a process for preparing the same. The said process comprises: cloning an un-edited nad 9 gene by digesting the PCR product obtained from mitochondrial DNA to obtain *pNG3*cloning crop with un-edited nad 9 gene with the targeting sequence under ubiquitin promoter a NOS terminator to obtain *pNG11* co-bombarding *pNG11* constructs in a manner as herein described with hygromycin gene (pLAU6 hph construct) to generate plants containing un-edited nad 9 gene; analysing un-edited nad 9 (pNG11) construct with a control plant having edited nad 9 gene, *pNG10*to determine the presence of nad 9 gene.

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