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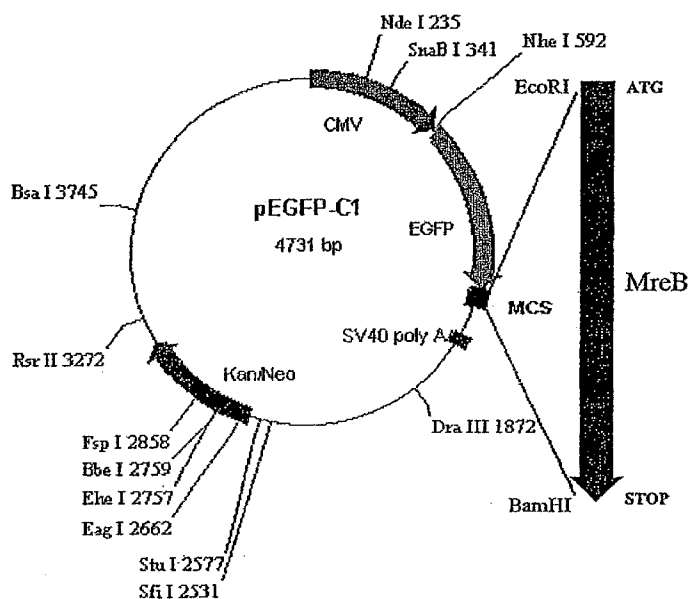
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(54) Title: METHOD OF SCREENING ANTIBACTERIAL DRUG COMPOUNDS



(57) Abstract: Compounds are identified simultaneously as having antibiotic activity targeting a specific microbial protein and having no or limited toxicity against eukaryotic cells by expressing the microbial protein in eukaryotic cells by expressing the microbial protein in eukaryotic cells which then are used to screen candidate antibiotic compounds. Preferably, yeast cells such as *Schizosaccharomyces pombe* are transfected with and express a target bacterial protein such as FtsZ or MreB, optionally as a fusion with a reporter protein, and these transfected cells are used to screen libraries of compounds simultaneously for activity against the bacterial protein and lack of toxicity against the yeast cell.



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