

A SITE-SPECIFIC ENDONUCLEASE FOR THE CLEAVAGE OF VERY LARGE DNA MOLECULES

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ABSTRACT

A DNA endonuclease, VDE, is derived from the yeast *Sacchromyces cerevisiae* and is related to other nucleases involvled in nucleic acid rearrangements. Analysis shows that VDE recognizes an extended sequence: TATSYATGYGGGTGY|GGRGAARKMGKKAAGAAAWG, and leaves a staggered double-strand break with 4-bp 3'-hydroxyl overhangs.

References:

Bremer et al. 1992. Nuc. Acid Res. 20:5484

Gimble et al. 1993 J. Biol. Chem. 268:21844-53

Gimble & Stephens 1995 J. Biol. Chem. 27:5849-56

APPLICATIONS

With the extended recognition sequence this enzyme is a rare cutter of DNA and is useful for mapping DNAs from large genomes or chromosomes.

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OTHER INFORMATION

KEYWORDS

research tool, enzyme, gene, reagent

CATEGORIZED AS

- » **Medical**
- » Gene Therapy
- » **Research Tools**
- » Other
- » Reagents

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