Dual Incision in GG-NER

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09/05/2020
Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

Literature references


Reactome database release: 72

This document contains 1 pathway and 3 reactions (see Table of Contents)

https://release.reactome.org
Dual Incision in GG-NER

Stable identifier: R-HSA-5696400

Compartments: nucleoplasm

Double incision at the damaged DNA strand excises the oligonucleotide that contains the lesion from the open bubble. The excised oligonucleotide is ~27-30 bases long. Incision 5' to the damage site, by ERCC1:ERCC4 endonuclease, precedes the incision 3' to the damage site by ERCC5 endonuclease (Staresincic et al. 2009).

Literature references


Editions

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<td>Orlic-Milacic, M.</td>
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<td>2015-08-03</td>
<td>Reviewed</td>
<td>Fousteri, M.</td>
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**5’- incision of DNA by ERCC1:ERCC4 in GG-NER**

**Location:** Dual Incision in GG-NER

**Stable identifier:** R-HSA-5690990