

Resource Summary Report

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MADS+ - discovery of differential splicing events from Affymetrix exon junction array data

RRID:SCR_007189

Type: Tool

Proper Citation

MADS+ - discovery of differential splicing events from Affymetrix exon junction array data (RRID:SCR_007189)

Resource Information

URL: <http://www.mimg.ucla.edu/faculty/xing/MADSplus/instructions.html>

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Description: The Affymetrix Human Exon Junction Array is a newly designed high-density exon-sensitive microarray for global analysis of alternative splicing. Contrary to the Affymetrix exon 1.0 array, which only contains 4 probes per exon and no probes for exon-exon junctions, this new junction array averages 8 probes per probeset targeting all exons and exon-exon junctions observed in the human mRNA/EST transcripts, representing a significant increase in the probe density for alternative splicing events. Here, we present MADS+, a computational pipeline to detect differential splicing events from the Affymetrix exon junction array data. For each alternative splicing event, MADS+ evaluates the signals of probes targeting competing transcript isoforms to identify exons or splice sites with different levels of transcript inclusion between two sample groups. MADS+ is used routinely in our analysis of Affymetrix exon junction arrays and has a high accuracy in detecting differential splicing events. For example, in a study of a novel epithelial-specific splicing regulator ESRP1, MADS+ detects hundreds of exons whose inclusion levels are dependent on ESRP1, with a RT-PCR validation rate of 88.5% (153 exons validated out of 173 tested).

Abbreviations: MADS+

Resource Type: source code, service resource, software resource

Keywords: algorithm

Resource Name: MADS+ - discovery of differential splicing events from Affymetrix exon junction array data

Resource ID: SCR_007189

Alternate IDs: nlx_93953

Alternate URLs: <https://omictools.com/mads-tool>

Old URLs: <http://www.medicine.uiowa.edu/Labs/Xing/MADSplus/>

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Ratings and Alerts

No rating or validation information has been found for MADS+ - discovery of differential splicing events from Affymetrix exon junction array data.

No alerts have been found for MADS+ - discovery of differential splicing events from Affymetrix exon junction array data.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.