

Resource Summary Report

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Alternate splicing gallery

RRID:SCR_008129

Type: Tool

Proper Citation

Alternate splicing gallery (RRID:SCR_008129)

Resource Information

URL: <http://statgen.ncsu.edu/asg/>

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Description: Alternative splicing essentially increases the diversity of the transcriptome and has important implications for physiology, development and the genesis of diseases. This resource uses a different approach to investigate alternative splicing (instead of the conventional case-by case fashion) and integrates all transcripts derived from a gene into a single splicing graph. ASG is a database of splicing graphs for human genes, using transcript information from various major sources (Ensembl, RefSeq, STACK, TIGR and UniGene). Each transcript corresponds to a path in the graph, and alternative splicing is displayed by bifurcations. This representation preserves the relationships between different splicing variants and allows us to investigate systematically all possible putative transcripts. Web interface allows users to display the splicing graphs, to interactively assemble transcripts and to access their sequences as well as neighboring genomic regions. ASG also provide for each gene, an exhaustive pre-computed catalog of putative transcripts in total more than 1.2 million sequences. It has found that ~65 of the investigated genes show evidence for alternative splicing, and in 5 of the cases, a single gene might produce over 100 transcripts.

Synonyms: ASG

Resource Type: data or information resource, database

Keywords: gallery, gene, genesis, alternative, development, disease, diversity, genomic, human, physiology, putative transcript, sequence, single, splice, splicing graph, transcript, transcriptome, variant, bio.tools

Resource Name: Alternate splicing gallery

Resource ID: SCR_008129

Alternate IDs: nif-0000-20932, biotools:alternative_splicing_gallery

Alternate URLs: https://bio.tools/alternative_splicing_gallery

Record Creation Time: 20220129T080245+0000

Record Last Update: 20260729T044203+0000

Ratings and Alerts

No rating or validation information has been found for Alternate splicing gallery.

No alerts have been found for Alternate splicing gallery.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Elloumi HZ, et al. (2008) Complex regulation of human cathelicidin gene expression: novel splice variants and 5'UTR negative regulatory element. Molecular immunology, 45(1), 204.