

Resource Summary Report

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PRIMEGENS

RRID:SCR_005474

Type: Tool

Proper Citation

PRIMEGENS (RRID:SCR_005474)

Resource Information

URL: <http://primegens.org/>

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Description: A Web-based Tool for High-throughput Primer and Probe Design. The program has its different utilities available on its web server. A standalone version is also available. Algorithms: * SSPD - Sequence Specific Primer Design: to design primers for each of the specific sequences given by the user in the query input file against any alternate potential hybridization with any of the sequences given in the database input file. * PSPD - Probe Specific Primer Design: to design primers it selects the gene-specific fragments (probes) to design primer pairs for their PCR amplification. * FSPD Fragment Specific Primer Design: primer design algorithm used when there is a very long query sequence for which multiple primers are required for its amplification. * Check Binding Specificity * Probe Design Only: Probe design algorithm could be used to find sequence-specific probes, which doesn't show any blast hit against database. Such probe design has been used for targeted sequencing like agilent sure-select technology with next-generation sequencing.

Abbreviations: PRIMEGENS

Synonyms: PRIMEGENS-w3, PRIMEGENS - High-throughput Primer and Probe Design, PRIMEGENSw3

Resource Type: data analysis service, analysis service resource, software resource, production service resource, service resource

Defining Citation: [PMID:21415011](#), [PMID:18579568](#), [PMID:17951795](#), [PMID:12424113](#)

Keywords: primer design, high-throughput primer, probe, microarray, analysis, blast, hybridization, primer, probe design, dna methylation

Funding: DOE ;
DOD ;
NIH

Availability: Free for academic use, Commercial use requires license

Resource Name: PRIMEGENS

Resource ID: SCR_005474

Alternate IDs: OMICS_00637, OMICS_02346

Old URLs: <http://digbio.missouri.edu/primegens/>

Record Creation Time: 20220129T080230+0000

Record Last Update: 20250419T055014+0000

Ratings and Alerts

No rating or validation information has been found for PRIMEGENS.

No alerts have been found for PRIMEGENS.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Wang X, et al. (2015) Transcriptomes That Confer to Plant Defense against Powdery Mildew Disease in Lagerstroemia indica. International journal of genomics, 2015, 528395.

Lee EJ, et al. (2013) Analyzing the cancer methylome through targeted bisulfite sequencing. Cancer letters, 340(2), 171.

Chen H, et al. (2009) Pleiotropic effects of RecQ in Deinococcus radiodurans. Genomics, 94(5), 333.