

# Resource Summary Report

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## PRIMEGENS

RRID:SCR\_005474

Type: Tool

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### Proper Citation

PRIMEGENS (RRID:SCR\_005474)

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### Resource Information

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

**Proper Citation:** PRIMEGENS (RRID:SCR\_005474)

**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:** analysis service resource, data analysis service, production service resource, service resource, software 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:** 20260912T195626+0000

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## Ratings and Alerts

No rating or validation information has been found for PRIMEGENS.

No alerts have been found for PRIMEGENS.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## 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.