

Resource Summary Report

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QuantPrime

RRID:SCR_015498

Type: Tool

Proper Citation

QuantPrime (RRID:SCR_015498)

Resource Information

URL: <http://quantprime.mpimp-golm.mpg.de>

Proper Citation: QuantPrime (RRID:SCR_015498)

Description: Fully automated tool for primer pair design in small- to large-scale real-time reverse transcription qPCR analyses. It offers design and specificity checking with highly customizable parameters and is available for use with publicly available eukaryotic transcriptomes.

Resource Type: web application, software resource

Defining Citation: [DOI:10.1186/1471-2105-9-465](https://doi.org/10.1186/1471-2105-9-465)

Keywords: primer design, primer pair design, rt-qpcr, reverse transcription qpcr

Availability: Acknowledgement requested, Available as a web application, Available as a desktop application

Resource Name: QuantPrime

Resource ID: SCR_015498

Record Creation Time: 20220129T080326+0000

Record Last Update: 20260808T190242+0000

Ratings and Alerts

No rating or validation information has been found for QuantPrime.

No alerts have been found for QuantPrime.

Data and Source Information

Usage and Citation Metrics

We found 162 mentions in open access literature.

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

Janz M, et al. (2026) Endosomal maturation is controlled by the trimeric Bulli-Mon1-Ccz1 Rab7 GEF complex and the Rab5 GTPase-activating protein GAPsec. *Journal of cell science*, 139(9).

Xu W, et al. (2026) Integrated evaluation and screening of salt-tolerant wheat germplasm and indices. *BMC plant biology*, 26(1).

Shen Q, et al. (2025) Combined Analysis of BSA-Seq and RNA-Seq Reveals Candidate Genes for qGS1 Related to Sorghum Grain Size. *Plants (Basel, Switzerland)*, 14(12).

Devkar V, et al. (2025) Cell-type-specific response to silicon treatment in soybean leaves revealed by single-nucleus RNA sequencing and targeted gene editing. *The Plant journal : for cell and molecular biology*, 123(1), e70309.

K?l?ç M, et al. (2025) Jasmonic acid signaling and glutathione coordinate plant recovery from high light stress. *Plant physiology*, 197(4).

Yu G, et al. (2025) Exogenous Melatonin Induces Salt Stress Tolerance in Cucumber by Promoting Plant Growth and Defense System. *Life (Basel, Switzerland)*, 15(8).

Wang Y, et al. (2025) Genome-wide characterization of the UDP-glycosyltransferases (UGT) family and functional analysis of VcUGT160 involved in dihydrozeatin glycosylation during blueberry fruits development. *BMC genomics*, 26(1), 1044.

Tang Z, et al. (2025) Melatonin Mitigates Cd-Induced Growth Repression and RNA m6A Hypermethylation by Triggering MMR-Mediated DNA Damage Response. *Plants (Basel, Switzerland)*, 14(9).

Mohammadi V, et al. (2025) Unraveling the role of autophagy and antioxidants in anther and pistil responses to heat stress in rapeseed (*Brassica napus* L.). *Plant cell reports*, 44(2), 51.

Kumar V, et al. (2025) Deciphering the role of monoacylglycerol lipases (MAGL) under abiotic stress and lipid metabolism in soybean (*Glycine max* L.). *Plant biotechnology journal*, 23(10), 4318.

Yu G, et al. (2025) Exogenous Spermidine Induces Cadmium Stress Tolerance in Cucumber Seedlings by Promoting Plant Growth and Defense System. *Toxics*, 13(10).

Xu K, et al. (2024) Exogenous application of the apocarotenoid retinaldehyde negatively regulates auxin-mediated root growth. *Plant physiology*, 196(2), 1659.

Liu C, et al. (2024) Seed longevity is controlled by metacaspases. *Nature communications*, 15(1), 6748.

Safavi-Rizi V, et al. (2024) Reciprocal modulation of responses to nitrate starvation and hypoxia in roots and leaves of *Arabidopsis thaliana*. *Plant signaling & behavior*, 19(1), 2300228.

Uraguchi S, et al. (2024) Phenylmercury stress induces root tip swelling through auxin homeostasis disruption. *Plant molecular biology*, 115(1), 8.

Emmerich K, et al. (2024) A large-scale CRISPR screen reveals context-specific genetic regulation of retinal ganglion cell regeneration. *Development (Cambridge, England)*, 151(15).

Brunello L, et al. (2024) The transcription factor ORA59 represses hypoxia responses during *Botrytis cinerea* infection and reoxygenation. *Plant physiology*, 197(1).

Zhao L, et al. (2023) The *Arabidopsis thaliana* onset of leaf death 12 mutation in the lectin receptor kinase P2K2 results in an autoimmune phenotype. *BMC plant biology*, 23(1), 294.

McKown KH, et al. (2023) Expanded roles and divergent regulation of FAMA in *Brachypodium* and *Arabidopsis* stomatal development. *The Plant cell*, 35(2), 756.

Chaganti C, et al. (2023) Silicate solubilizing and plant growth promoting bacteria interact with biogenic silica to impart heat stress tolerance in rice by modulating physiology and gene expression. *Frontiers in microbiology*, 14, 1168415.