

A

Arabidopsis thaliana

Search..

Classic MarkersMarker genes

Arabidopsis thaliana1843144822

Root100891050

Root epidermis251649

Non-hair695580

Root hair57451

Trichoblast69

Ground tissue

Cambium2

Root cortex905004

Root endodermis1214757

Root cap13211

Lateral root cap726883

Columella root cap765852

Root stele332301

Pericycle381111

Phloem pole pericycle63309

Xylem pole pericycle63019

Lateral root primordia14632

Phloem/Pericycle161

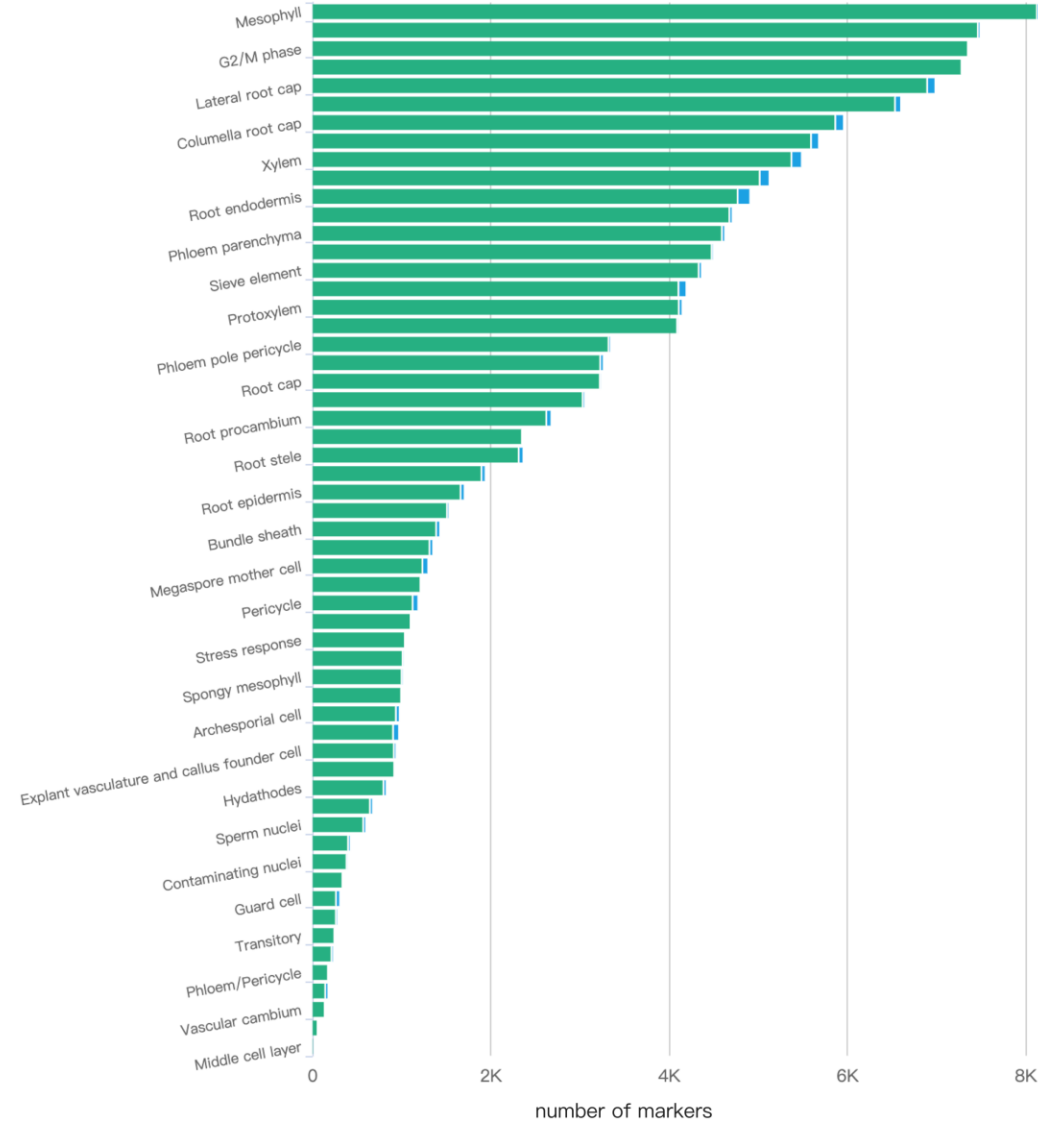
Phloem542203

Sieve element114031

Companion cell193540

Phloem parenchyma1565

Distribution of cell markers in each tissue



D

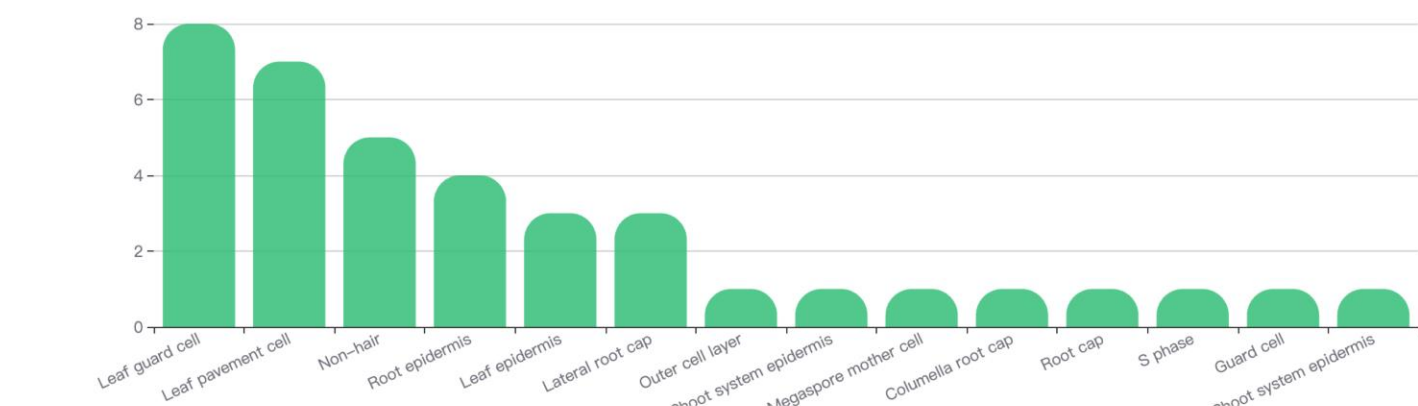
AT3G43720

Species: Arabidopsis thalianaGene Symbol: LTPG2Gene Strand: —

Gene Location: Chr3Start Location: 15615386End Location: 15617309

Gene Description: Bifunctional inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein

Cell Type



Cell Type	Dataset	Dataset No.	PMID
Leaf guard cell	CRA002977_1;SRP338044;SRP280069;SRP253497;SR...	8	33955487; 34687312; 32592820; 35218590; 33725481; 33823130; 34380624; https://doi.org/10.1101/2022.10.07.511353; 35666176; 36440710; 37741284; 37644724;
Leaf pavement cell	CRA002977_1;SRP247828_1;ERP132245;SRP292306;S...	7	33955487; 34687312; 32592820; 35218590; 33725481; 33823130; 34380624; https://doi.org/10.1101/2022.10.07.511353; 35666176; 36440710; 37741284; 37644724;

B Root epidermis



Celltype ID

PO:0006036 arabisopsis_thaliana->PO:0009005->PO:0006036

Description

A portion of epidermis (PO:0005679) that is part of a root (PO:0009005). Source: ISBN:0080374913



C Marker Table

SummaryDetails

Search..

CSV

Gene ID	Gene Name	Celltype ID	Classic Marker	Source No.	Source Dataset
AT3G43720	LTPG2	PO:0006036	★	4	SRP171040;SRP182008;SRP285817;SRP293943
AT2G18980	AT2G18980	PO:0006036	☆	4	SRP173393;SRP182008;SRP285817;SRP330542
AT3G50640	AT3G50640	PO:0006036	☆	4	SRP173393;SRP182008;SRP285817;SRP330542
AT1G04040	AT1G04040	PO:0006036	☆	3	SRP173393;SRP285817;SRP330542

E By marker gene (identifier or keyword)

Species

choose

ExampleSearchReset

By sequence (Blast)

Input a FASTA sequence here

Program

choose

Species

choose

Database

choose

E-value

choose

or upload sequence FASTA fileBrowse

ExampleSearchReset

By cell type

Species

choose

Tissue

choose

Cell type

choose

ExampleSearchReset