

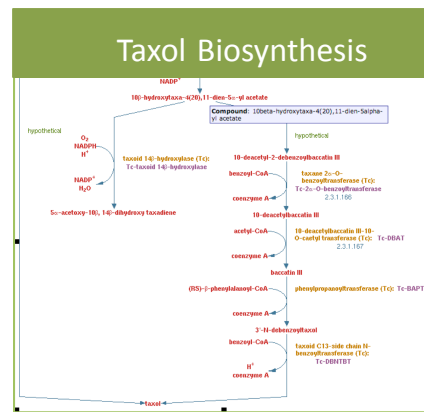


# Plant Metabolic Pathways in MetaCyc and SolCyc

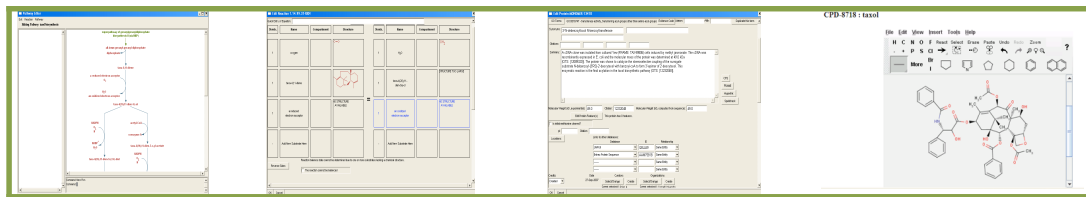
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Introduction: MetaCyc is a metabolic encyclopedia of experimentally validated biochemical pathways, spanning all organisms, with an emphasis on microbes and plants.

Current Statistics	Feb 2009
Pathways	1289
Organisms	1683
Reactions	7686
Enzymes	5528
Genes	5178
Compounds	7722



## Pathway Tools Curation Software



SolCyc – Pathway database in Solanaceae Genomics Network (SGN), Genomic clade oriented database for Solanaceae

**SGN –locus detail page**

**Tomato 'Phytoene synthase 1'**

**Locus details**

Locus name: **Phytoene synthase 1**  
 Symbol: **psyl**  
 Gene activity: **phytoene synthase**  
 Description: **Psyl** encodes phytoene synthase 1. It is expressed in early seedling, in the corolla (epidermis), abscisic acid (anthers). **Psyl** transcript is almost undetectable in the fruit from the onset of maturation until the Mature Green stage. From the Breaker stage onwards, the transcript level increases dramatically reaching its maximum at the Pink stage and decreasing slowly with the progression of fruit ripening. **Psyl** transcript is undetectable in roots.

Chromosome: **3**  
 Arm: **short**

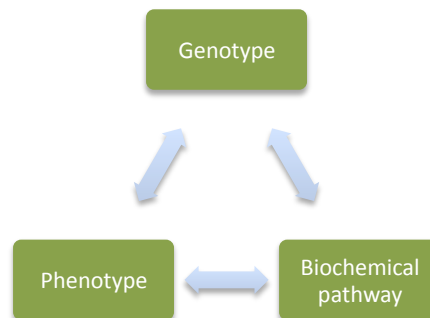
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See 84 more accessions

Associated loci (2)

Known alleles (3)

SolCyc links (2)



[www.metacyc.org](http://www.metacyc.org)  
<http://sgn.cornell.edu>