

Symbol	Information	Source	Evidence	Reference
<b>inflorescence</b>				
<input type="checkbox"/> cg	cigar shaped panicle, gene from <i>Oryza sativa</i>	Gramene	IMP	GR_ref:3965
<input type="checkbox"/> Cl	Clustered spikelets, gene from <i>Oryza sativa</i>	Gramene	IMP	GR_ref:1793
<input type="checkbox"/> CYP88A3	ENT-KAURENOIC ACID HYDROXYLASE 1, gene from <i>Arabidopsis thaliana</i>	TAIR	IEP	PMID:11172076
<input type="checkbox"/> d1	dwarf-1, gene from <i>Oryza sativa</i>	Gramene	IMP	GR_ref:6145
<input type="checkbox"/> d10	dwarf-10, gene from <i>Oryza sativa</i>	Gramene	IMP	GR_ref:5792
<input type="checkbox"/> Gi	Gigantea, gene from <i>Oryza sativa</i>	Gramene	IMP	PMID:12040096
<input type="checkbox"/> lth	Inhibitor for difficult threshing (easy threshing), gene from <i>Oryza sativa</i>	Gramene	IMP	GR_ref:5861
<input type="checkbox"/> lgp	light green panicle and leaf, gene from <i>Oryza sativa</i>	Gramene	IMP	GR_ref:6122
<input type="checkbox"/> Mi1	Minute grain-1, gene from <i>Oryza sativa</i>	Gramene	IMP	GR_ref:4413
<input type="checkbox"/> mi2	minute grain-2, gene from <i>Oryza sativa</i>	Gramene	IMP	GR_ref:6375
<input type="checkbox"/> N1642	Ler-1 (Landsberg erecta-1), germplasm from <i>Arabidopsis thaliana</i>	NASC	IMP	NASC:N1642
<input type="checkbox"/> N3111	M3385S, germplasm from <i>Arabidopsis thaliana</i>	NASC	IMP	NASC:N3111
<input type="checkbox"/> N3191	germplasm from <i>Arabidopsis thaliana</i>	NASC	IMP	NASC:N3191
<input type="checkbox"/> N3255	germplasm from <i>Arabidopsis thaliana</i>	NASC	IMP	NASC:N3255
<input type="checkbox"/> N3865	germplasm from <i>Arabidopsis thaliana</i>	NASC	IMP	NASC:N3865

  

**Summary for Gene: cg (GR:0060117)**

General Info | Allele and Germplasm | Ontology Association | References

<b>General Information</b>	
Accession	GR:0060117
Gene Symbol	cg
Gene Name	cigar shaped panicle
Species	Rice
Gene Type	Not sequenced
Has Phenotype	yes
<b>Description</b>	
Cigar-shaped panicle results from extremely shortened main axis, rachis and rachillae of branches. Acute angles at origin of branches. Panicles remain compact even after maturity. Dwarf height is associated with cigar-shaped panicle, which produces short, small grain; indicates pleiotropic gene action.	
<b>Allele</b>	
cg1	
<b>Germplasm</b>	
Club mutant	
<b>Ontology Association</b>	
Trait	panicle type (TO:0000089), seed length (TO:0000146), seed size (TO:0000391), stem length (TO:0000576)
Plant Structure	inflorescence (PO:0009049), seed (PO:0009010), stem (PO:0009047)
Growth Stage	D4-stem elongation stage (GRO:0007048), D5-booting stage (GRO:0007148), D6-heading stage (GRO:0007044), D7-milk stage (GRO:0007046), D8-dough stage (GRO:0007042), D9-mature grain stage (GRO:0007045)
Biological Process	development (GO:0007275), undimensional cell growth (GO:0009026)
<b>Reference</b>	
DBref	Oryzabase: 46
1. Seetharaman R, Shrivastava D-E. Inheritance of semi-dwarf stature and cigar shaped panicle in rice.	

**Allele:**

- ckh1-1

**Locus:**

- ckh1

**Phenotype**

increased sensitivity to cytokinin, callus growth in tissue culture exhibit typical cytokinin responses including rapid proliferation and chloroplast development in response to lower levels of cytokinins than in the wild type; short inflorescences and primary roots when grown in soil; backcrossed once to Ler.

**Ontology annotation using Plant Ontology (PO) and PATO**

Select the plant ontology term to see other Arabidopsis lines associated with this phenotype.

Entity	Value
inflorescence	ShortHeightValue (PATO:0000569)
primary root	ShortLengthValue (PATO:0000574)

**References**

Kubo, M., Kakimoto, T., The cytokinin-hypersensitive genes of Arabidopsis negatively regulate the cytokinin-signaling pathway for cell division and chloroplast development. Plant Journal 2000/23/385-394