

Table S7. Listing of candidate genes tentatively associated with the observed ARR and NER phenotypic traits

Seq name	Hit	Term	Phenotypic trait
Ciclev10024399m	S1 RNA-binding domain-containing protein	Chlorophyll biosynthetic process	Precociousness. Peel color change
Ciclev10020061m	Geranylgeranyl reductase	Chlorophyll biosynthetic process	Precociousness. Peel color change
Ciclev10019304m	Heparanase-like protein 1-like	Chlorophyll metabolic process	Precociousness. Peel color change
Ciclev10020378m	Malate chloroplastic-like	Starch and sucrose metabolic process	Precociousness. Brix accumulation
		Carbohydrate metabolic processes	Precociousness. Brix accumulation
		Reductive tricarboxylic acid cycle	Precociousness. Acid reduction
		Pyruvate metabolic process	Precociousness. Acid reduction
Ciclev10020920m	Movement protein binding protein 2c	Sugar biosynthetic and catabolic process	Precociousness. Brix accumulation
		Plasmodesmata transport	Precociousness. Fruit metabolism change
Ciclev10019047m	Transcriptional corepressor	Anatomical structure development	Precociousness
Ciclev10019317m	Replication protein a 70 kda DNA-binding subunit-like	Cell proliferation	Precociousness
Ciclev10020062m	Membrane bound o-acyl transferase family protein	Organ senescence	Precociousness
Ciclev10019953m	Phosphatidylinositol glycan anchor biosynthesis class u	GPI anchor biosynthetic process	Precociousness
		Cell division	
Ciclev10020101m	Flavin-containing monooxygenase fmo gs-ox-like 9-like	Phosphatidylinositol biosynthetic process	Precociousness
Ciclev10023002m	Ptd008 protein	Phosphatidylinositol biosynthetic process	Precociousness.
Ciclev10020097m	Protein cobra-like	Water transport, hyperosmotic response	Reduced tolerance to flooding
Ciclev10021527m	Protein cobra-like	Water transport, hyperosmotic response	Reduced tolerance to flooding
		Starch metabolic process	Precociousness. Brix accumulation
		Defense response to fungus	Reduced tolerance to fungus
Ciclev10021320m	Synaptosomal associated	Defense response to fungus	Reduced tolerance to flooding
Ciclev10022100m	Thaumatococcus-like protein	Defense response to fungus	Reduced tolerance to flooding
Ciclev10022104m	Thaumatococcus-like protein	Defense response to fungus	Reduced tolerance to flooding
Ciclev10023840m	Ap2 erf domain-containing transcription factor	Defense response to fungus	Reduced tolerance to flooding
Ciclev10024165m	Probable lrr receptor-like serine threonine-protein kinase at1g74360-like	Defense response to fungus	Reduced tolerance to flooding