

GEPHE SUMMARY

	Gephebase Gene		GepheID
HUA2 (https://www.gephebase.org/search-criteria?/and+GeneGephebase=~HUA2^#gephebase-summary-title)		GP00001230	
	Entry Status	Arnoult	Main curator
Published			

PHENOTYPIC CHANGE

Trait #1	Trait Category
Physiology (https://www.gephebase.org/search-criteria?/and+TraitCategory=~Physiology^#gephebase-summary-title)	
Flowering time (https://www.gephebase.org/search-criteria?/and+Trait=~Floweringtime^#gephebase-summary-title)	Trait
Arabidopsis thaliana- Ler0	Trait State in Taxon A
Arabidopsis thaliana- Eri-1	Trait State in Taxon B

Trait #2	Trait Category
Morphology (https://www.gephebase.org/search-criteria?/and+TraitCategory=~Morphology^#gephebase-summary-title)	
Coloration (temperature-dependent) (https://www.gephebase.org/search-criteria?/and+Trait=~Coloration (temperature-dependent)^#gephebase-summary-title)	Trait
-	Trait State in Taxon A
-	Trait State in Taxon B

	Ancestral State
Taxon A	
	Taxonomic Status
Intraspecific (https://www.gephebase.org/search-criteria?/and+TaxonomicStatus=~Intraspecific^#gephebase-summary-title)	

Taxon A	Latin Name
Arabidopsis thaliana (https://www.gephebase.org/search-criteria?/and+Taxon and Synonyms=~Arabidopsis thaliana^#gephebase-summary-title)	
thale cress	Common Name
thale cress; mouse-ear cress; thale-cress; Arabidopsis thaliana (L.) Heynh.; Arabidopsis thaliana (thale cress); Arabidopsis_thaliana; Arbisopsis thaliana; thale kress	Synonyms
species	Rank
cellular organisms; Eukaryota; Viridiplantae; Streptophyta; Streptophytina; Embryophyta; Tracheophyta; Euphyllophyta; Spermatophyta; Magnoliophyta; Mesangiospermae; eudicotyledons; Gunneridae; Pentapetales; rosids; malvids; Brassicales; Brassicaceae; Camelineae; Arabidopsis	Lineage
Arabidopsis () - (Rank: genus) (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 3701)	Parent
3702 (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 3702)	NCBI Taxonomy ID
is Taxon A an Intraspecies?	
Yes	
Arabidopsis thaliana- Ler0	Taxon A Description

Taxon B	Latin Name
Arabidopsis thaliana (https://www.gephebase.org/search-criteria?/and+Taxon and Synonyms=~Arabidopsis thaliana^#gephebase-summary-title)	
thale cress	Common Name
thale cress; mouse-ear cress; thale-cress; Arabidopsis thaliana (L.) Heynh.; Arabidopsis thaliana (thale cress); Arabidopsis_thaliana; Arbisopsis thaliana; thale kress	Synonyms
species	Rank
cellular organisms; Eukaryota; Viridiplantae; Streptophyta; Streptophytina; Embryophyta; Tracheophyta; Euphyllophyta; Spermatophyta; Magnoliophyta; Mesangiospermae; eudicotyledons; Gunneridae; Pentapetales; rosids; malvids; Brassicales; Brassicaceae; Camelineae; Arabidopsis	Lineage
Arabidopsis () - (Rank: genus) (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 3701)	Parent
3702 (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 3702)	NCBI Taxonomy ID
is Taxon B an Intraspecies?	
Yes	
Arabidopsis thaliana- Eri-1	Taxon B Description

GENOTYPIC CHANGE

HUA2	Generic Gene Name	Q9XER9 (http://www.uniprot.org/uniprot/Q9XER9)	UniProtKB Arabidopsis thaliana
	Synonyms	832379 (https://www.ncbi.nlm.nih.gov/nuccore/832379)	GenebankID or UniProtKB
	String		
	Sequence Similarities		
3702.AT5G23150.1 (http://string-db.org/newstring.cgi/show_network_section.pl?identifier=3702.AT5G23150.1)	GO - Molecular Function		
	GO - Biological Process		
	GO - Cellular Component		
	Presumptive Null		
Yes (https://www.gephebase.org/search-criteria?/and+Presumptive Null=~Yes~#gephebase-summary-title)	Molecular Type		
	Aberration Type		
	Molecular Details of the Mutation		
	Experimental Evidence		
Linkage Mapping (https://www.gephebase.org/search-criteria?/and+Experimental Evidence=~Linkage Mapping~#gephebase-summary-title)	Main Reference		
	Authors		
	Abstract		
	Additional References		

RELATED GEPHE

15 (AGAMOUS-LIKE 50, Cryptochrome 2 (CRY2) EDI allele, EARLY FLOWERING 3(ELF3), FLC (Flowering Locus C), FLM (MAF1), Flowering locus T (FT), Frigida (FRI), Frigida like 1 (FRL1), Frigida like 2 (FRL2), MADS AFFECTING FLOWERING 2 (MAF2), SVP (SHORT VEGETATIVE PHASE), VIN3, PAP1, PAP2, phytochrome D (PHYD)) (https://www.gephebase.org/search-criteria?/or+Taxon ID=~3702~/and+Trait=Flowering time/or+Taxon ID=~3702~/and+Trait=Coloration/and+groupHaplotypes=true#gephebase-summary-title)	Related Genes
	Related Haplotypes

EXTERNAL LINKS

COMMENTS

other FT QTLs confirmed in the study ; high-light and low-temperature stress