

Table 1 The virulence formula of THTS and THTT

Strain number and pathotypes	virulence formula (low virulence/high virulence)
	<i>(Lr9 Lr18 Lr19 Lr24 Lr38 Lr39 Lr42 Lr47) / (Lr1 Lr2a Lr2b Lr2c Lr3 Lr3bg Lr3ka Lr10 Lr11 Lr14a Lr14b Lr15 Lr16 Lr17 Lr20 Lr21 Lr23 Lr25 Lr26 Lr28 Lr29 Lr30 Lr32 Lr33 Lr36 Lr37 Lr44 Lr45 Lr46)</i>
08-5-361-1 (THTT)	<i>(Lr9 Lr19 Lr24 Lr36 Lr38 Lr39 Lr42 Lr44 Lr47) / (Lr1 Lr2a Lr2b Lr2c Lr3 Lr3bg Lr3ka Lr10 Lr11 Lr14a Lr14b Lr15 Lr16 Lr17 Lr18 Lr21 Lr23 Lr25 Lr26 Lr28 Lr29 Lr30 Lr32 Lr33 Lr37 Lr45 Lr46 Lr50)</i>

Table 2 The GO analysis of 2,784 DEGs between THTS and THTT

Ontology	Class	No. of DEGs	Ontology	Class	No. of DEGs
Biological process	Biological adhesion	1	Cellular component	Cell	425
	Biological Regulation	126		Cell part	425
	Cellular component organization or biogenesis	69		Macromolecular complex	216
	Cellular process	652		Membrane	186
	Establishment of localization	169		Membrane part	142
	Developmental process	9		Membrane-enclosed lumen	15
	Growth	1		Nucleoid	2
	Localization	173		Organelle	271
	Metabolic process	656		Organelle part	119
	Multi-organism process	1	Molecular function	Antioxidant activity	5
	Multicellular organismal process	3		Binding	579
	Negative regulation of biological process	9		Catalytic activity	615
	Positive regulation of biological process	4		Electron carrier activity	4
	Regulation of biological process	118		Enzyme regulator activity	12
	Single-organism process	426		Guanyl-nucleotide exchange factor activity	19
	Reproductive process	2		Molecular transducer activity	13
	Response to stimulus	94		Nucleic acid binding transcription factor activity	17
				Protein binding transcription factor activity	1
				Receptor activity	6

	Signaling	61		structural molecule activity	88
	Reproduction	4		Transporter activity	75