

**Table S4.** GO Identification, obtained using the Blast2GO software [49], for some unigenes with unknown “biological process” and “molecular function” GO annotation (Additional Files 2 and 3). F: Molecular Function; P: Biological Process

<b>Unigene</b>	<b>GO Id</b>
I6	F: Zinc ion binding P: Vesicle-mediated transport
I14	F: electron carrier activity P: photorespiration; proteasome core complex assembly; response to misfolded protein; ubiquitin-dependent protein catabolic process
I15	P: vernalization response
I21	F: structural constituent of ribosome P: translation
I29	F: nucleic acid binding; RNA binding
I38	F: transferring glycosyl groups P: microtubule nucleation
I50	F: helicase activity, RNA binding; nucleic acid binding; ATP-dependent helicase activity; microtubule cytoskeleton organization P: cytokinesis by cell plate formation; protein glycosylation
I56	F: hydrolase activity; lyase activity
I59	F: transferase activity, transferring glycosyl groups
R6	F: heme binding; iron ion binding; oxidoreductase activity, metal ion binding; monooxygenase activity P: negative regulation of catalytic activity; oxidation-reduction process
R13	P: photorespiration
R18	P: Golgi vesicle transport; cellular membrane fusion; response to nitrate
R31	P: response to stress; response to molecule of fungal origin
R32	P: vesicle-mediated transport
R34	P: vesicle-mediated transport; transport; cell plate formation involved in plant-type cell wall biogenesis
R39	F: lyase activity P: auxin mediated signaling pathway
R41	F: RNA binding; nucleic acid binding; ribonuclease H activity P: DNA integration; RNA-dependent DNA replication
R44	P: tryptophan catabolic process; indoleacetic acid biosynthetic process