

表 1 Blast2GO 具有 GOs 功能注释的 18 条序列

Table 1 Eighteen sequences with the functional annotation by Blast2GO

序列名称 Seq. Name	相似性 Similarity	注释数量 Total number of annotation	功能注释 Functional annotation
TF1	67.4%	2	C: 细胞膜; C: 过氧化物酶 C: Membrane; C: Peroxisome
TF2	55.5%	4	C: 核仁; F: 水解酶活性; C: 细胞膜; C: 线粒体 C: Nucleolus; F: Hydrolase activity; C: Membrane; C: Mitochondrion
TF4	83.8%	2	F: 核酸结合; F: 锌离子结合 F: Nucleic acid binding; F: Zinc ion binding
TF5	99.9%	3	F: 结合; P: 光合作用; C: 叶绿体类囊体膜 F: Binding; P: Photosynthesis; C: Chloroplast thylakoid membrane
TF6	96.3%	3	C: 核糖体; F: 核糖体结构组成; P: 翻译 C: Ribosome; F: Structural constituent of ribosome; P: Translation
TF8	93.2%	8	C: 核仁; P: 细胞氧化还原稳态; P: 氧化还原; P: 丙酮酸到乙酰辅酶 A 生物合成过程; F: 蛋白结合; C: 叶绿体基质; F: 二氢硫辛酸脱氢酶活性; F: FAD 结合 C: Nucleolus; P: Cell redox homeostasis; P: Oxidation reduction; P: Acetyl-CoA biosynthetic process from pyruvate; F: Protein binding; C: Chloroplast stroma; F: Dihydrolipoyl dehydrogenase activity; F: FAD binding
TF9	95.85%	3	F: GDP-甘露糖 3,5-异构酶活性; P: 细胞代谢过程; F: 辅酶结合 F: GDP-mannose 3,5-epimerase activity; P: Cellular metabolic process; F: Coenzyme binding
TF10	66.7%	2	P: 转录调节; F: 水解酶活性 P: Regulation of transcription; F: Hydrolase activity
TF11	93.95%	4	P: 蛋白折叠; F: 多肽结合; C: 细胞质; F: 肽基脯氨酰顺反异构酶活性 P: Protein folding; F: Peptide binding; C: Cytoplasm; F: Peptidyl-prolyl cis-trans isomerase activity
TF12	68.95%	3	P: 切除 tRNA3'尾部过程; F: 锌离子结合; F: 具有切除 tRNA3'尾部的内切核酸酶活 性 P: tRNA 3'-trailer cleavage; F: Zinc ion binding; F: 3'-tRNA processing endoribonuclease activity
TF13	84.35%	4	C: 核小体; F: DNA 结合; P: 核小体组装; C: 核仁 C: Nucleosome; F: DNA binding; P: Nucleosome assembly; C: Nucleus
TF14	76.2%	6	F: DNA 指导的 RNA 聚合酶活性; F: DNA 结合; P: 翻译; C: 核仁; C: DNA 指导的 RNA 聚合酶 V 复合物; C: 质体 F: DNA-directed RNA polymerase activity; F: DNA binding; P: Transcription; C: Nucleus; C: DNA-directed RNA polymerase V complex; C: Plastid
TF15	74.75%	1	F: 水解酶活性 F: Hydrolase activity
TF17	98.25%	6	F: GTP 结合; P: 微管运动; P: 蛋白聚合; F: 分子运动; C: 微管; F: GTP 酶活性 F: GTP binding; P: Microtubule-based movement; P: Protein polymerization; F: Structural molecule activity; C: Microtubule; F: GTPase activity
TF18	69.25%	5	P: 昼夜节律调控; P: 起负调控的转录因子活性; F: 蛋白结合; F: 转录调控; C: 核仁 P: Regulation of circadian rhythm; P: Negative regulation of transcription factor activity; F: Protein binding; F: Transcription factor activity; C: Nucleus

续表 1

Continuing Table 1

序列名称 Seq. Name	相似性 Similarity	注释数量 Total number of annotation	功能注释 Functional annotation
TF19	77.9%	9	C: 依赖质子转运的 ATP 合酶复合体催化亚基 F1; P: 脂质代谢过程; P: 质膜质子转运和 ATP 合成相偶联过程; C: 线粒体内膜; F: 氢离子转运偶联 ATP 合酶活性; F: ATP 结合; P: 胚胎发育; C: 质膜; F: 质膜质子转运和 ATP 转换活性 C: F1 Proton-transporting ATP synthase complex, catalytic core F(1); P: Lipid metabolic process; P: Plasma membrane ATP synthesis coupling with proton transport; C: Mitochondrial inner membrane; F: Hydrogen ion transport coupling with ATP synthase activity; F: ATP binding; P: Embryonic development; C: Plasma membrane F: Plasma membrane H <sup>+</sup> -ATP activity
TF20	69.5%	7	P: 细菌防疫; C: 液泡; P: 干旱胁迫应答; F: 半胱氨酸内肽酶活性; P: 蛋白质水解; C: 核仁; P: 盐胁迫应答 P: Defense response to bacterium; C: Vacuole; P: Response to desiccation; F: Cysteine-type endopeptidase activity; P: Proteolysis; C: 核仁 Nucleus; P: Response to salt stress
TF21	61.2%	2	C: 细胞膜; P: 转运过程 C: Membrane; P: Transport

注: F: 分子功能; C: 细胞组件; P: 生物过程

Note: F: Molecular function; C: Cellular component; P: Biological process