

李贺勤^{1,2,3} 闫恒宇¹ 袁语铮¹ 段炎炎¹ 李彩丽⁴ 单成钢⁵ 江绪文^{1,2,3}

(1. 青岛农业大学农学院, 青岛 230036; 2. 盐碱地综合利用国家技术创新中心, 东营 257347; 3. 黄河三角洲盐碱地农业研究院, 东营 257347; 4. 中国医学科学院药用植物研究所, 北京 100193; 5. 山东省农业科学院经济作物研究所, 济南 250100)

LI He-qin^{1,2,3} YAN Heng-yu¹ YUAN Yu-xin¹ DUAN Yan-yan¹ LI Cai-li⁴
SHAN Cheng-gang⁵ JIANG Xu-wen^{1,2,3}

(1. College of Agriculture, Qingdao Agricultural University, Qingdao 230036; 2. National Technology Innovation Center for Saline-Alkali Agriculture, Dongying 257347; 3. Yellow River Delta Research Institute of Saline-Alkaliland Agriculture, Dongying 257347; 4. Institute of Medicinal Plant Development, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing 100193; 5. Institute of Industrial Crops, Shandong Academy of Agricultural Sciences, Jinan 250100)

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附表 1 引物序列

Table S1 Information for primer sequences

基因名称 Gene name	上游引物 Forward primer (5'-3')	下游引物 Reverse primer (5'-3')
<i>Actin</i>	GGTGCCCTGAGGTCCTGTT	AGGAACCACCGATCCAGACA
<i>SmRBOH1</i>	AATTGGAGGACGGTCTACAAGA	GCTAGGTTTCTTAGTTCTGCCAC
<i>SmRBOH2</i>	TTGGTTCAAGGGCGTGATGA	TTCTTGGCGTGGTTGAGGGA
<i>SmRBOH3</i>	TGAGTGTTACATTCGGGGC	TCGGGTCTGAGATGTCCACT
<i>SmRBOH4</i>	AAGAAGGCGATGCTCGTTCA	TTGCGAAATGCGTTCTCACC
<i>SmRBOH5</i>	GAAGAGGGGGATGCAAGGTC	GGCCTTGCGAAATGCGTTAT
<i>SmRBOH6</i>	TGCAACACGCCAAGAATGGA	GGCTCCCACAGTAGAACACTC

附表 2 SmRBOHs 理化特性

Table S2 Physicochemical characteristics of SmRBOHs

Genes	序列号 Accession	核苷酸数目 DNA nucleotides number (bp)	氨基酸数量 amino acids number (aa)	分子量 Molecular weight (kDa)	等电点 Isoelectric point	不稳定指数 Instability index	脂肪族指数 Aliphatic index	亲水性平均系数 Grand average of hydropathicity
<i>SmRBOH1</i>	EVM0022034.1	2,709	902	101.041	9.1	45.88	82.97	-0.256
<i>SmRBOH2</i>	EVM0000148.2	2,889	962	108.295	9.04	40.69	85.83	-0.236
<i>SmRBOH3</i>	EVM0027461.1	2,412	803	90.864	8.9	43.93	81.13	-0.269
<i>SmRBOH4</i>	EVM0010816.1	2,817	938	107.157	9.23	49.76	88.22	-0.254
<i>SmRBOH5</i>	EVM0022919.1	2,727	908	101.966	8.98	45.9	85.2	-0.119
<i>SmRBOH6</i>	EVM0024725.1	2,478	825	94.951	8.47	46.72	78.58	-0.276

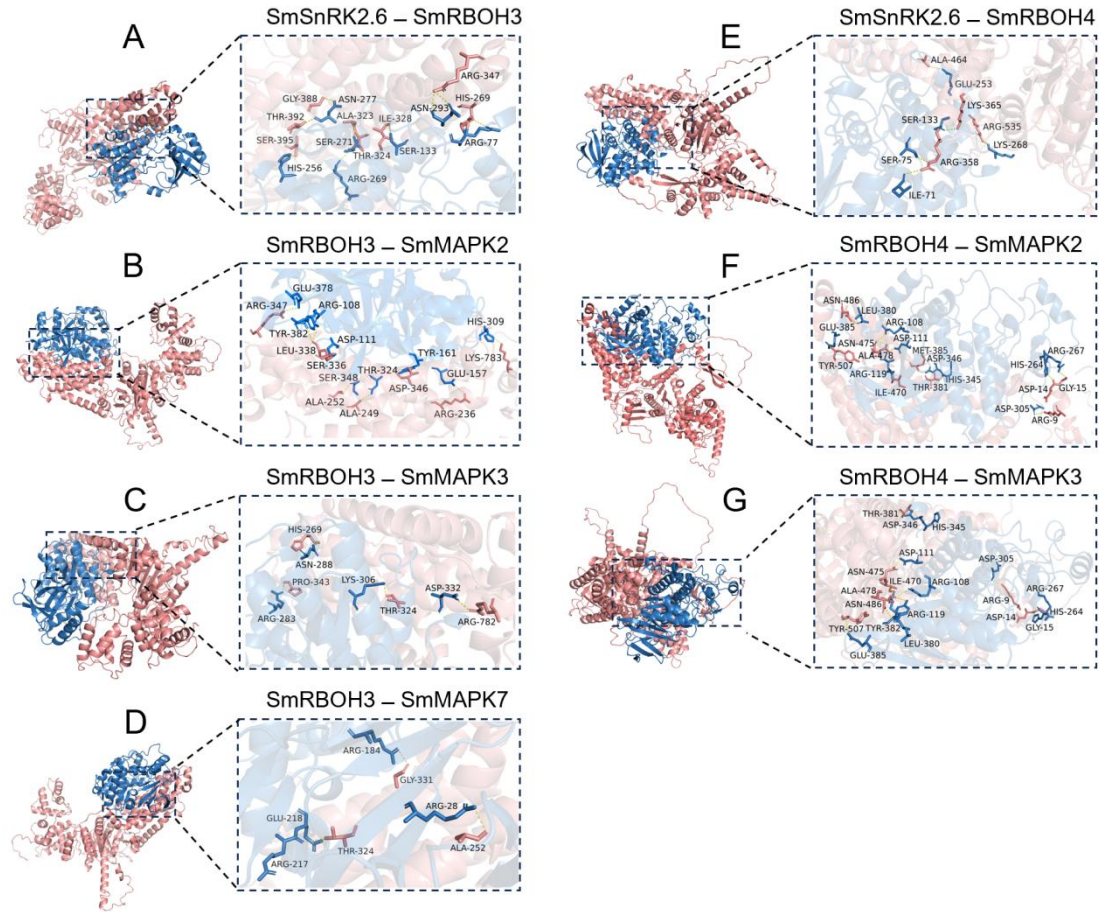
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附表 3 SmRBOHs 亚细胞定位
Table S3 Subcellular localization of SmRBOHs

蛋白 Proteins	质膜 Plasma membrane	内质网 Endoplasmic reticulum	细胞核 Nucleus	细胞质基质 Cytoplasmic matrix	叶绿体 Chloroplast	液泡 Vacuole
SmRBOH1	√	√				
SmRBOH2	√	√				
SmRBOH3	√					
SmRBOH4	√		√			
SmRBOH5	√	√	√		√	√
SmRBOH6	√	√		√		√

注：√ 代表亚细胞定位
Note: √ indicate the subcellular localization



A-D : SmRBOH3 与 SmSnRK2.6 和 SmMAPK2/3/7 互作晶体结构 ; E-G : SmRBOH4 与 SmSnRK2.6 和 SmMAPK2/3 互作晶体结构
A-D: SmRBOH3 interacting with SmSnRK2.6 and SmMAPK2/3/7. E-G: SmRBOH4 interacting with SmSnRK2.6 and SmMAPK2/3

附图 1 SmRBOHs 与 SmSnRK2 和 SmMAPKs 蛋白互作及其晶体结构模型
Fig.S1 Crystal structure models of SmRBOHs interacting with SmSnRK2 and SmMAPKs

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