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Endorsement email : Genome biology Structure Function and Comparison Reyword 1 Genome biology Structure Function and Comparison Reyword 2 Genome biology Structure Function and Comparison Reyword 3  **Comparative genomics**  **	Category	: International Rice Research Conference
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Presenting author email : Piao Yang  Presenting author email : yp502311393@126.com  Co author 1 : Han Qiu  Co author 2 : Shumin Wang  Affiliation presenting author : Zonghua Wang  Affiliation 1 : Huiming Wu  Affiliation 2 : Wenhui Zheng  Select only one type of presentation : 15 minute oral presentation  Abstract : Rice blast is one of the most important diseases on rice caused by Magnaporthe oryzae, which seriously affects the world's rice production. MoVp355, a core element of retromer complex in rice blast fungus, could mediate the transportant of the retromer complex, we have identified a series of related proteins, such as SNARE family members MoSnc1 and MoNyv1. In order to clarify the biological function of MoSnC1 gene in rice blast fungus, we knocked out the gene, and then analyzed the related phenotypes of the knock mutant. It was found that GFP-MoSnc1 in aMosnc1 could complement the growth affects of AMosnc1 mutant, and MoSnc1 in sportulation, appressorium formation and pathogenicity, but the growth rate was weaker than wild type. It was found that GFP-MoSnc1 in aMosnc1 could complement the growth affects of AMosnc1 mutant, and MoSnc1 in aMosnc1 in aMosnc1 could complement the growth affects of AMosnc1 mutant, and MoSnc1 in aMosnc1 in aMosnc1 could complement the growth affects of AMosnc1 in sportulation, appressorium formation and pathogenicity, but the growth rate was weaker than wild type. It was found that GFP-MoSnc1 in aMosnc1 could complement the growth affects of AMosnc1 mutant, and MoSnc1 is localized the endosome of condition and hyphase cell with dioted structure. In aMovp355, however, a large number of GFP-MoSnc1 is positioned in the vacuoles of the rice blast fungus. GFP-MoNyv1 was also misplaced in vacuoles after the deletion of MoVP355 gene. In summary, our results show that the SNARE protein MoSnc1 is involved in the growth after the endosome in a manner that relies on the retromer complex.		: Annotation
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