



## Table of Contents

### **IN PRESS**

**CJGPB 2014**

**CJGPB 2013**

**CJGPB 2012**

**CJGPB 2011**

**CJGPB 2010**

**CJGPB 2009**

**CJGPB 2008**

**CJGPB 2007**

**CJGPB 2006**

**CJGPB 2005**

**CJGPB 2004**

**CJGPB 2003**

**CJGPB 2002**

**CJGPB**

**Home**

---

## **Editorial Board**

### **For Authors**

- **Authors  
Declaration**
- **Instruction  
to Authors**
- **Guide for  
Authors**
- **Copyright  
Statement**
- **Submission**

### **For Reviewers**

- **Guide for  
Reviewers**
- **Reviewers  
Login**

---

## **Subscription**

**Czech J. Genet.  
Plant Breed.**

**Chrprová J.:**

# **Development of CAPS marker for identification of *rym4* and *rym5* alleles conferring resistance to the Barley Yellow Mosaic Virus complex in barley**

Czech J. Genet. Plant Breed., 46 (2010): 159-163

In barley, soil-borne viruses of the barley mosaic virus complex (BaYMV, BaMMV, BaYMV-2) are of high importance due to their increased spread, yield losses, and the fact that protection with chemicals is not possible. Concerning resistance breeding, simple, cheap, and robust selection methods are required.

Markerassisted selection (MAS) has a great potential to meet this demand. A CAPS marker designed directly for SNPs

causing mutations responsible for resistance of *rym4/rym5* alleles of the *Hv-eIF4E* gene was developed in this study. Results showed perfect correspondence between the CAPS marker and the allele identified indirectly on the basis of field tests.

### **Keywords:**

barley; marker-assisted breeding; mosaic virus complex; resistance; *rym* allele identification

[ [fulltext](#) ]

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