



## A new pear scab resistance gene Rvp1 from the European pear cultivar 'Navara' maps in a genomic region syntenic to an apple scab resistance gene cluster on linkage group 2

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Auteur	Bouvier, Lydie [1], Bourcy, Marie [2], Boulay, Mathieu [3], Tellier, Marie [4], Guérif, Philippe [5], Denancé, Caroline [6], Durel, Charles-Eric [7], Lespinasse, Yves [8]
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Résumé en anglais	Scab, caused by the ascomycete fungus <i>Venturia pirina</i> , leads to severe damage on European pear varieties resulting in a loss of commercial value and requiring frequent use of fungicides. Identifying scab resistance genes, developing molecular markers linked to these genes and establishing marker-assisted selection would be an effective way to improve European pear breeding for scab resistance. Most of the European pear cultivars ( <i>Pyrus communis</i> ) are currently reported to be sensitive. The pear cultivar 'Navara' was shown to carry a major scab resistance gene whose phenotypic expression in seedling progenies was a typical stellate necrosis symptom. The resistance gene was called Rvp1, for resistance to <i>V. pirina</i> , and was mapped on linkage group 2 of the pear genome close to microsatellite marker CH02b10. This genomic region is known to carry a cluster of scab resistance genes in apple indicating a first functional synteny for scab resistance between apple and pear.
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