

Title (en)  
GENETIC MARKERS FOR DIAGNOSING PREDISPOSITION TO HEREDITY OR EXPRESSION OF THE IMPERFORATE ANUS PHENOTYPE IN DOMESTIC ANIMALS, BREEDING ANIMALS AND WORKING ANIMALS

Title (de)  
GENETISCHE MARKER FÜR DIE DIAGNOSE DER PRÄDISPOSITION ZUR VERERBUNG ODER AUSPRÄGUNG DES PHÄNOTYPS "AFTERLOSIGKEIT" BEI HAUS-, ZUCHT- UND NUTZTIEREN

Title (fr)  
MARQUEURS GÉNÉTIQUES PERMETTANT DE DIAGNOSTIQUER LA PREDISPOSITION À L'HERÉDITÉ OU À L'EXPRESSION DU PHÉNOTYPE D'IMPERFORATION DE L'ANUS CHEZ DES ANIMAUX DE COMPAGNIE, DOMESTIQUES ET D'ÉLEVAGE

Publication  
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Application  
**EP 03790882 A 20030807**

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• EP 02017954 A 20020809

Abstract (en)  
[origin: WO2004020663A2] The invention relates to the use of a first nucleic acid for determining predisposition to expression or heredity of the imperforate anus phenotype in a mammal, said first nucleic acid having a length of at least 8 nucleotides and being identical or essentially identical to a second nucleic acid on chromosome 1 of the pig or in a homologous position in the genome of other mammals, that is in the region of a microsatellite selected from the group consisting of SW2185, SW 1621, SW 1902, S0155, and S0320; or on chromosome 3 of the pig or in a homologous position in the genome of other mammals, that is in the region of the microsatellite S0002; or on chromosome 9 of the pig or in a homologous position in the genome of other mammals, that is in the region of a microsatellite selected from the group consisting of SW2401 and S0081; or on chromosome 12 of the pig or in a homologous position in the genome of other mammals, that is in the region of a microsatellite selected from the group consisting of SW957 and S0229. The invention also relates to methods for determining predisposition to expression or heredity of the imperforate anus characteristic in mammals, preferably in domestic animals, breeding animals and working animals, whereby the mammals, the fertilised ovules or non-fertilised ovules thereof, or the sperm thereof are tested for the presence, structure or expression of the second abovementioned nucleic acids. Disclosed is also a kit containing at least one pair of primers for amplifying one of the second abovementioned nucleic acids, respectively one primer binding to the + strand of the nucleic acid and another primer binding to the strand of the nucleic acid, or a hybridisation probe having a length of at least 8 nucleotides which binds to one of the second abovementioned nucleic acids, or a specific antibody or an antibody fragment which binds to the second abovementioned nucleic acid.

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