

Title (en)  
ASSAY FOR DUROC MUSCLE FIBRE TYPE

Title (de)  
TEST FÜR DUROC MUSKELFASERTYPUS

Title (fr)  
METHODE DE SELECTION DE FIBRES MUSCULAIRES DE TYPE DUROC

Publication  
**EP 0929814 A1 19990721 (EN)**

Application  
**EP 97944024 A 19971007**

Priority  

- GB 9702741 W 19971007
- GB 9620904 A 19961007
- GB 9703350 A 19970218
- GB 9705796 A 19970320
- GB 9719002 A 19970909

Abstract (en)  
[origin: WO9815837A1] There is provided an assay to determine whether an animal has an allele for or exhibits muscle fibre composition characteristic of a Duroc pig. The assay comprises obtaining a tissue sample from said animal and subjecting said sample to genetic analysis and/or obtaining a muscle sample from said animal and determining by histochemical or immunochemical analysis whether said sample exhibits phenotypic traits indicative of said allele(s) and/or shows a muscle composition characterisitic to the Duroc pig. Suitable physical traits include the following: i. the percentage frequency of SO fibres present in said muscle; and/or ii. the number of SO fibres present per cluster; and/or iii. the number of muscle fibres present per cluster; and/or iv. the level of m calpain present per unit muscle; and/or v. the level of mu calpain present per unit muscle. The assay can be used to select animals having Duroc muscle type for breeding or for meat production. Anti-calpain antibodies are especially useful and may be employed as part of an ELISA style assay.

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**G01N 33/68**; **C12Q 1/68**

IPC 8 full level  
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See references of WO 9815837A1

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