

Title (en)  
POLYMORPHISMS OF PD-1

Title (de)  
POLYMORPHISMEN VON PD-1

Title (fr)  
POLYMORPHISMES DE PD-1

Publication  
**EP 1425421 A2 20040609 (EN)**

Application  
**EP 02797957 A 20020906**

Priority  
• EP 0210011 W 20020906  
• GB 0121674 A 20010907  
• US 21944602 A 20020813

Abstract (en)  
[origin: WO03022875A2] The present invention is based at least in part on the identification of the genomic structure of the human PD-1 gene and on the identification of polymorphic region within the gene. Accordingly, the invention provides nucleic acids having a nucleotide sequence encoding variants of the PD-1 gene and also provides nucleic acids having a PD-1 promoter, intron, exon and 3' UTR sequences, and expression products. The invention also provides methods for identifying specific alleles of polymorphic regions of a PD-1 gene, methods for determining whether a subject has or at risk of developing any disease that is associated with a specific allele of a polymorphic region of a PD-1 gene, and kits for performing such methods.

IPC 1-7  
**C12Q 1/68**

IPC 8 full level  
**C07K 14/705** (2006.01); **A61K 38/00** (2006.01)

CPC (source: EP)  
**C07K 14/70503** (2013.01); **A01K 2217/05** (2013.01); **A61K 38/00** (2013.01); **A61K 2039/53** (2013.01)

Citation (search report)  
See references of WO 03022875A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)  
**WO 03022875 A2 20030320; WO 03022875 A3 20031016**; AU 2002362273 A1 20030324; EP 1425421 A2 20040609

DOCDB simple family (application)  
**EP 0210011 W 20020906**; AU 2002362273 A 20020906; EP 02797957 A 20020906