

Title (en)  
METHODS FOR DETECTING AND MAPPING GENES, MUTATIONS AND VARIANT POLYNUCLEOTIDE SEQUENCES

Title (de)  
METHODEN ZUR DETEKTION UND KARTIERUNG VON GENEN, MUTATIONEN UND ABWEICHENDER POLYNUKLEOTIDSEQUENZEN

Title (fr)  
PROCEDES DE DETECTION ET DE MAPPAGE DE GENES, DE MUTATIONS ET DE SEQUENCES DE POLYNUCLEOTIDES DU TYPE VARIANT

Publication  
**EP 1112378 A1 20010704 (EN)**

Application  
**EP 99934134 A 19990716**

Priority

- US 9916242 W 19990716
- US 9321998 P 19980717

Abstract (en)  
[origin: WO0004192A1] The present invention includes a number of related designs for gene probe components, multilinking components and signaling components, all of which are modular in nature and can be used together or in part. These components are generally joined together in composite structures by hybridization of complementary sub-segments, called linkers. The reporters of the present invention are also designed to be conjoined into arrays that can provide amplified signaling. The multilinking components of the present invention may be interposed between the probe and the reporter units and provide for the binding of multiple reporters. These probe and signaling methods also include means to achieve mixed-color labeling that is specific to each target. The present invention is useful for detecting target sequences in a wide variety of formats including, but not limited to, membrane formats, in situ formats, and on various solid substrate chip formats.

IPC 1-7  
**C12Q 1/68**; **C12P 19/34**; **C07H 21/02**; **C07H 21/04**

IPC 8 full level  
**C12Q 1/68** (2006.01); **C12Q 1/6816** (2018.01); **C12Q 1/682** (2018.01); **C12Q 1/6837** (2018.01); **C12Q 1/6862** (2018.01)

CPC (source: EP)  
**C12Q 1/6816** (2013.01); **C12Q 1/682** (2013.01); **C12Q 1/6837** (2013.01); **C12Q 1/6862** (2013.01)

Citation (search report)  
See references of WO 0004192A1

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

DOCDB simple family (publication)  
**WO 0004192 A1 20000127**; **WO 0004192 A8 20000713**; AU 5003299 A 20000207; CA 2335324 A1 20000127; EP 1112378 A1 20010704

DOCDB simple family (application)  
**US 9916242 W 19990716**; AU 5003299 A 19990716; CA 2335324 A 19990716; EP 99934134 A 19990716