



(11) **EP 2 236 612 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:  
**Corrected version no 1 (W1 A1)**  
**Corrections, see**  
**Bibliography INID code(s) 30**

(51) Int Cl.:  
**C12N 15/66 (2006.01)**

(48) Corrigendum issued on:  
**30.11.2011 Bulletin 2011/48**

(43) Date of publication:  
**06.10.2010 Bulletin 2010/40**

(21) Application number: **10166905.9**

(22) Date of filing: **18.07.2006**

(84) Designated Contracting States:  
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR**  
**HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI**  
**SK TR**

(30) Priority: **22.07.2005 GB 0515131**

(62) Document number(s) of the earlier application(s) in  
accordance with Art. 76 EPC:  
**06765007.7 / 1 907 548**

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Remarks:

This application was filed on 22-06-2010 as a  
divisional application to the application mentioned  
under INID code 62.

(54) **Oligonucleotide library encoding randomised peptides**

(57) The invention provides a kit for producing an oligonucleotide library, the library comprising a plurality of oligonucleotides, each oligonucleotide having at least one predetermined position, a randomisation codon selected from a defined group of codons, the coding within the defined group coding for different amino acids, the kit comprises a plurality of different randomisation oligonucleotides comprising:

- (i) a coding strand, the coding strand comprising a randomisation codon; and  
(ii) a substantially complementary non-coding strand,

wherein each double stranded randomisation oligonucleotide comprises a nucleotide sequence coding for a restriction endonuclease recognition site capable of being recognised by a restriction endonuclease, the restriction endonuclease capable of cleaving the randomisation oligonucleotide upstream or downstream of the endonuclease recognition site at a predetermined cleavage site to create a blunt ended cut.

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Figure 1

