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(54) Title: COMPOSITIONS AND METHODS FOR GENERATING ANTIGEN-BINDING UNITS

(57) Abstract: The present invention provides non-single-chain antigen-binding units that is stabilized by leucine zipper sequences. The experimental design is particularly useful for generating and screening for Nsc Abus that remain the binding capabilities to their respective antigens within a cell. The present invention also provides recombinant polynucleotides, host cells and kits comprising the vectors. Further provided by the invention are methods of using the subject vectors.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/26952

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : CO7H 21/04; C12N 15/86; CO7K 5/00; A61K 39/395; C12Q 1/68
 US CL : 530/387.1, 387.3, 388.1, 300, 350; 435/6, 69.6, 69.7, 320.1, 325, 255.1; 536/23.4, 23.53

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 530/387.1, 387.3, 388.1, 300, 350; 435/6, 69.6, 69.7, 320.1, 325, 255.1; 536/23.4, 23.53

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,248,516 A (WINTER ET AL) 19 June 2001 (19/6/01), see entire document, especially column 13, lines 45-57, column 12, lines 49-53, column 1, lines 65-67.	1-42
Y	WO 93/15210 A1 (MERCK PATENT GMBH) 05 August 1993 (05/08/93), see entire document, especially page 2, lines 18-26, page 6, lines 9-30, page 7, lines 5-15, page 11, lines 5-10, page 12, lines 24-25, page 16, lines 5-10.	1-42
Y	VISINTIN et al. Selection of antibodies for intracellular function using a two-hybrid in vivo system. PNAS. 12 October 1999, Vol.96, pages 11723-11728, especially pages 11723, 11724, Figure 1.	1-42

Further documents are listed in the continuation of Box C.

See patent family annex.

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

CAPLUS, MEDLINE, WEST, BIOSIS

search terms: leucine zipper, fos, jun, antibody, FV, yeast, yeast two-hybrid, inventor name