



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C12N 15/10, C12Q 1/68	A3	(11) International Publication Number: WO 00/09755 (43) International Publication Date: 24 February 2000 (24.02.00)		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;"> (21) International Application Number: PCT/US99/18393 (22) International Filing Date: 12 August 1999 (12.08.99) (30) Priority Data: 60/096,330 12 August 1998 (12.08.98) US 09/133,934 14 August 1998 (14.08.98) US (71) Applicant: PANGENE CORPORATION [US/US]; 375 Garcia Avenue, Mountain View, CA 94043 (US). (72) Inventors: ZARLING, David; 1195 Colby Avenue, Menlo Park, CA 94025 (US). REDDY, Gurucharan; Apartment #510, 1405 Marshall Street, Redwood City, CA 94063 (US). PATI, Sushma; 816 Amber Lane, Los Altos, CA 94024 (US). (74) Agents: SILVA, Robin, M. et al.; Flehr Hohbach Test Albritton & Herbert LLP, Suite 3400, 4 Embarcadero Center, San Francisco, CA 94111-4187 (US). </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 8 June 2000 (08.06.00) </td> </tr> </table>			(21) International Application Number: PCT/US99/18393 (22) International Filing Date: 12 August 1999 (12.08.99) (30) Priority Data: 60/096,330 12 August 1998 (12.08.98) US 09/133,934 14 August 1998 (14.08.98) US (71) Applicant: PANGENE CORPORATION [US/US]; 375 Garcia Avenue, Mountain View, CA 94043 (US). (72) Inventors: ZARLING, David; 1195 Colby Avenue, Menlo Park, CA 94025 (US). REDDY, Gurucharan; Apartment #510, 1405 Marshall Street, Redwood City, CA 94063 (US). PATI, Sushma; 816 Amber Lane, Los Altos, CA 94024 (US). (74) Agents: SILVA, Robin, M. et al.; Flehr Hohbach Test Albritton & Herbert LLP, Suite 3400, 4 Embarcadero Center, San Francisco, CA 94111-4187 (US).	(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 8 June 2000 (08.06.00)
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(54) Title: DOMAIN SPECIFIC GENE EVOLUTION				
(57) Abstract Compositions and methods are provided for rapidly evolving specific protein domains employing a recombinase and recombination intermediates.				

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/18393

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/10 C12Q1/68

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)

IPC 7 C12N C12Q

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 93 22443 A (STANFORD RES INST INT) 11 November 1993 (1993-11-11) the whole document	1-24
X	EP 0 718 404 A (TAKARA SHUZO CO) 26 June 1996 (1996-06-26) see whole doc. esp. examples	1-24
A	US 5 731 411 A (CAMERINI-OTERO R DANIEL ET AL) 24 March 1998 (1998-03-24) see whole doc. esp. summary	
	-/-	



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Patent family members are listed in annex.

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Date of the actual completion of the international search

31 March 2000

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INTERNATIONAL SEARCH REPORT

Int l Application No
PCT/US 99/18393

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HASTY P ET AL: "THE LENGTH OF HOMOLGY REQUIRED FOR GENE TARGETING IN EMBRYONIC STEM CELLS" MOLECULAR AND CELLULAR BIOLOGY,US,WASHINGTON, DC, vol. 11, no. 11, 1 November 1991 (1991-11-01), pages 5586-5591, XP002052222 ISSN: 0270-7306 cited in the application the whole document	
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Information on patent family members

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