

**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: C12Q 1/70, A61K 39/21, C07K 16/00, A23J 1/00	A1	(11) International Publication Number: WO 98/15658 (43) International Publication Date: 16 April 1998 (16.04.98)
(21) International Application Number: PCT/US97/18257 (22) International Filing Date: 10 October 1997 (10.10.97) (30) Priority Data: 60/028,194 10 October 1996 (10.10.96) US (71) Applicant: PROBE INTERNATIONAL [US/US]; Suite C-1, 220 Carroll Street, Shreveport, LA 71105 (US). (72) Inventor: GELDER, Frank, B.; 3024 Nottingham Drive, Shreveport, LA 71115 (US). (74) Agents: ERNST, Barbara, G. et al.; Rothwell, Figg, Ernst & Kurz, Suite 701 East, 555 13th Street N.W., Washington, DC 20004 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, 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, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: COMPOSITIONS AND METHODS FOR TREATING VIRAL INFECTIONS**(57) Abstract**

Methods and compositions for treatment, diagnosis, and prevention of a virus comprise administering to a patient antibodies which react with regions of viral proteins and result in neutralization of infectivity and inactivation of functionally essential events in the life cycle of the virus. The antibodies recognize viral epitopes which fail to elicit an immune response in man when encountered through infection or naturally through the environment. In a preferred embodiment, the invention provides compositions and methods useful in the treatment and diagnosis of human immunodeficiency virus (HIV) infections.