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(21) International Application Number: PCT/EP98/06009 (22) International Filing Date: 21 September 1998 (21.09.98) (30) Priority Data: PI 970 4411 23 September 1997 (23.09.97) MY (71) Applicants (for all designated States except US): BAVARIAN NORDIC RESEARCH INSTITUTE A/S [DK/DK]; Naverland 2, DK-2600 Glostrup (DK). GSF-FORSCHUNGSZENTRUM FÜR UMWELT UND GESUNDHEIT GMBH [DE/DE]; Ingolstädter Landstrasse 1, D-85758 Neuherberg (DE). UNIVERSITI MALAYSIA SARAWAK [MY/MY]; Unimas Research Park, MY-94300 Kota Samarahan, Sarawak (MY). VENTURE TECHNOLOGIES SDN BHD [MY/MY]; Unimas Research Park, MY-94300 Kota Samarahan, Sarawak (MY). (72) Inventors; and (75) Inventors/Applicants (for US only): DREXLER, Ingo [DE/DE]; Hohenzollernstrasse 12, D-80796 München (DE). SUTTER, Gerd [DE/DE]; Germaniastrasse 15A, D-80802 München (DE). CARDOSA, Mary, Jane [MY/MY]; 96 Jalan Wan Abbul Rahman, Lorong 4, MY-93300 Kuchung, Sarawak (MY). HOOI, Tio, Phaik		[MY/MY]; 114 Lorong A 8A, Tamam Satria Jaya, BDC Stam, MY-93250 Kuchung, Sarawak (MY). (74) Agent: PIELKEN, Petra; Bavarian Nordic Research Institute GmbH, Fraunhoferstrasse 18b, D-82152 Martinsried (DE). (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, GM, HR, 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, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, 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 Without international search report and to be republished upon receipt of that report.
(54) Title: DENGUE VIRUS ANTIGENS AND TREATMENT OF DENGUE FEVER (57) Abstract The present invention relates to monoclonal antibodies and antigen binding fragments specific for and recognising antigenic epitopes capable of eliciting antibodies which protect against infection by dengue viruses as well as the said antigenic epitopes and their use for vaccine purposes. The present invention also relates to recombinant vaccinia viruses and for example such which are derived from the Modified Vaccinia Ankara (MVA) encoding for and capable of expressing dengue virus antigen, and the use of the same recombinant viruses encoding dengue virus antigens in vaccines. In addition the invention also relates to pharmaceutical compositions comprising the above monoclonal antibodies, pharmaceutical compositions comprising dengue virus antigens, and pharmaceutical compositions comprising dengue virus antigen expression vectors.		