

GOIN 33

A 61 K 39

C 07 K 13

Ans.nr.: 1772/86

Indleveret: 17 apr 1986

Løbedag: 17 apr 1986

Alm. tilgængelig: 20 okt 1986

Prioritet: 19 apr 1985 US 725021

F. *HOFFMANN-LA ROCHE & CO. AKTIEN-GESELLSCHAFT; Basel, CH, THE *GOVERNMENT OF THE UNITED STATES AS REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF COMMERCE; Washington, US.

Opfinder: Robert Mitchell *Crowl; US, Robert Charles *Gallo; US, Eragam Premkumar *Reddy; US, George Meade *Shaw; US, Flossie Yeaching *Wong-Staal; US.

Fuldmægtig: Plougmann & Vingtoft Patentbureau

Viruskappeprotein

SAMMENDRAG

1772-86

Rekombinante kappeproteiner af det ætiologiske agens for erhvervet immundefektsyndrom (AIDS) er nyttige til diagnose og terapi af AIDS. De fremstilles ved, at proviralt DNA overføres til en værtscelle efter manipulation i en ekspressionsvektor, som danner kappeproteinet. Proteinerne kan også anvendes ved en fremgangsmåde til test af menneskeblod for tilstedeværelsen af antistoffer mod AIDS-viruset.

FIGURE 1

1772-86

1 ATTCTGCAACAACCTGCTGTTTATCCATTTTCAGAATTGGGTGTCGACATAGCAGAATAGGCGTTACTCG 69
 70 ACAGAGGAGAGCAAGAARTGGAGCCAGTAGATCCTAGACTAGAGCCCTGGAAGCATCCAGGAAGTCAGC 138
 139 CTAAAACTGCTTGTACCAATTGCTATTGTAAAAAGTGTGCTTTTCATTGCCAAGTTTGTTCATAACAA 207
 208 AAGCCTTAGGCATCTCCTATGGCAGGAAGAAGCGGAGACAGCGACGAAGACCTCCTCAAGGCAGTCAGA 276
 277 CTCATCAAGTTTCTCTATCAAAGCAGTAAGTAATACATGTAATGCAACCTATACAAATAGCAATAGTAG 345
 346 CATTAGTAGTAGCAATAATAATAGCAATAGTTGTGTGGTCCATAGTAATCATAGAATAATAGGAAAATAT 414
 415 TAAGACAAAGAAAAATAGACAGGTTAATTGATAGCATTAATAGAAAAGAGCAGAAGACAGTGGCAATGAGA 483
 484 GTGAAGGAGAAATATCAGCACTTGTGGAGATGGGGTGGAGATGGGGCACCATGCTCCTTGGGATGTTG 552
 553 ATGATCTGTAGTGCTACAGAAAAATTTGGGTTCACAGTCTATTATGGGGTACCTGTGTGGAAGGAACA 621
 622 ACCACCCTCTATTTTGTGCATCAGATGCTAAAGCATATGATACAGAGGTACATAAATGTTGGGCCA 690
 691 CATGCCTGTGTACCCACAGACCCCAACCCACAAGAAGTAGTATTGGTAAATGTGACAGAAAAATTAAC 759
 760 ATGTGGAATAATGACATGGTAGAACAGATGCATGAGGATATAATCAGTTTATGGGATCAAAGCCTAAG 828
 829 CCATGTGTAAATTAACCCACTCTGTGTTAGTTTAAAGTGCCTGATTTGAAGATGATACTAATACC 897
 898 AATAGTAGTAGCGGGAGAATGATAATGGAGAAAGGAGAGATAAAAACTGCTCTTCAATATCAGCACA 966
 967 AGCRTAAGAGGTAAAGTGCAGAAAAGATATGCATTTTTTTTATAAACTTGATATAATACCAATAGATAAT 1035
 1036 GATACTACCAGCTATACGTTGACAAAGTTGTAACACCTCAGTCATTACACAGGCCTGTCCAAAGGTATCC 1104
 1105 TTTGAGCCAATTCCCATACATTATTGTGCCCGGCTGGTTTTGCGATTCTAAAAATGTAATAATAAGACG 1173
 1174 TTCAATGGAACAGGACCATGTACAAATGTCAGCACAGTACAATGTACACATGGAATTAGGCCAGTAGTA 1242
 1243 TCAACTCAACTGCTGTAAATGGCAGTCTAGCAGAAGAAGAGGTAGTAATTAGATCTGTCAATTTACAG 1311
 1312 GACAATGCTAAAACCAATAATAGTACAGCTGAACACATCTGTAGAATTAATTGTACAAGACCCCAACAAC 1380
 1381 AATACAAGAAAAAAATCCGTATCCAGAGGGGACCAGGGAGAGCATTGTTACAATAGGAAAAATAGGA 1449
 1450 AATATGAGACAAGCACATTGTAACATTAGTAGAGCAAAATGGAATGCCACTTTAAACAGATAGCTAGC 1518
 1519 AAATTAAGAGAACAAATTTGGAATAATAAAAACAATAATCTTTAAGCAATCCTCAGGAGGGGACCCAGAA 1587
 1588 ATTGTAACGCACAGTTTAAATTGTGGAGGGGAATTTTTCTACTGTAATCAACACAACCTGTTAATAGT 1656
 1657 ACTTGGTTTAAATAGTACTTGGAGTACTGAAGGGTCAAATAACACTGAAGGAAGTGACACAATCACACTC 1725
 1726 CCATGCAGATAAAACAATTTATAAACATGTGGCAGGAAGTAGGAAAAGCAATGTATGCCCTCCCATC 1794
 1795 AGCGGACAAATAGATGTTTCAATATTACAGGGCTGCTATTAACAAGAGATGGTGGTAATAACAAC 1863
 1864 AATGGGTCCGAGATCTTCAGACCTGGAGGAGGATATGAGGGACAATTGGAGAAGTGAATTATATAAA 1932
 1933 TATAAAGTAGTAAAAATGAACCATTAGGAGTAGCACCCACCAAGGCAAAGAGAAGAGTGGTGCAGAGA 2001
 2002 GAAAAAGAGCAGTGGGAATAGGAGCTTTGTTCTTGGGTTCTTGGAGCAGCAGGAAGCACTATGGGC 2070
 2071 GCAGCGTCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACAAT 2139
 2140 TTGCTGAGGGCTATTGAGGGCGAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCAG 2208
 2209 GCAAGAATCCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGA 2277
 2278 AAATAATTTGCACCCTGCTGTGCCTTGGAAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTTGG 2346
 2347 AATCACACGACGTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACACTCCTTAATT 2415
 2416 GAAGAATCGCAAAACCAGCAAGAAAAGATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTG 2484
 2485 TGAATTTGGTTTAAACATAACAATTTGGCTGTGGTATATAAAATTAATCATAATGATAGTAGGAGGCTTG 2553
 2554 GTAGGTTTAAAGATAGTTTTTGTCTACTTTCTGTAGTGAATAGAGTTAGGCAGGGATATTACCATT 2622
 2623 TCGTTTCAGACCCACCTCCCAATCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGA 2691
 2692 GAGAGAGACAGAGACAGATCCATTGATTAGTGAACGGATCCTTAGCACTTATCTGGGACGATCTGCGG 2760
 2761 AGCCTGTGCCTCTTCAGCTACCACCGCTTGAGAGACTTACTCTGATTGTAACGAGGATTGTGGAACCT 2829
 2830 CTGGGACGCAGGGGGTGGGAAGCCCTCAAATATGGTGAATCTCCTACAATATTGGAGTCAGGACTA 2898
 899 AAGAATAGTGCTGTTAGCTTGCTCAATGCCACATAGCTAGCTAGCTGAGGGGACAGATAGGGTTATA 2967
 968 GAAGTAGTACAGAAGCTTATAGAGCTATTCGCCACATACCTAGAAGAATAAGACAGGGCTTGGAAAGG 3036
 037 ATTTTGTCTATAAGATGGGTGGCAAGTGTCAAAAAGTAGTGTGGTTGGATGGCCTGCTGTAAGGGAAAG 3105
 106 AATGAGACGAGCTGAGCCAGCAGCAGATGGGGTGGGAGCAGCATCTCGAGA 3156

FIGURE 2 (3 pages)

1772-86

1 50

HXB-3 MRVKEK-----YQHLWRWGWRTMLLGMMLICSATEKLWVTVYYGVPVWKEATT
 BH-10
 BH-8 F
 LAV K I
 ARV-2 K --GTRRN ----- --

51 100

HXB-3 TLFCASDAKAYDTEVHNWVATHACVPTDPNPQEVVLVNVVTENFNMWKNDM
 BH-10
 BH-8
 LAV
 ARV-2 R G N

101 150

HXB-3 VEQMHEDIISLWDQSLKPCVKLTPLCVSLKCTDLKNDTNTNSS-----SGRMIME
 BH-10
 BH-8
 LAV G A NTNSS E M
 ARV-2 Q T N G A NWKEEI-----

151 200

HXB-3 KGEIKNCSFNISTSIRGKVQKEYAFFYKLDIIPIDND--TTSYTLTS---CNTSV
 BH-10
 BH-8 K
 LAV
 ARV-2 T D I N L R N V V AST N NYRLIH R

201 250

HXB-3 ITQACPKVSFEP IPIHYCAPAGFAILKCNNKTFNGTGPCTNVSTVQCTHG
 BH-10
 BH-8
 LAV A
 ARV-2 T K

251 300

HXB-3 IRPVVSTQLLNGLAEEVVIRSVNFTDNAKTIIVQLNTSVEINCTRPN
 BH-10 A Q
 BH-8 D
 LAV A Q
 ARV-2 I D N E A

301

350

HXB-3 NNTRKKIRIQRGPGRFVVTIGKIGNMRQ-AHCNISRAKWNATLKQIASKLR
 BH-10 S N D
 BH-8 D
 LAV S
 ARV-2 S Y -- H T R I G D I R K Q N E V K

351

400

HXB-3 EQFGNNKTIIFKQSSGGDPEIVTHSFNCGGEFFYCNSTQLFNSTWFNSTW
 BH-10
 BH-8
 LAV
 ARV-2 V N M R T N -RLNH

401

450

HXB-3 STEGSNNTEGSDTITLPCRKQFINMWQEVGKAMYAPPISGQIRCSSNIT
 BH-10 K I
 BH-8 K I
 LAV
 ARV-2 - --- K N I I G S

451

500

HXB-3 GLLLTRDGG-NNNGSEIFRPGGGDMRDNRSELYKYKVVKIEPLGVAPTK
 BH-10 - S E
 BH-8 - S E
 LAV -
 ARV-2 T VT DT V -- I I

501

550

HXB-3 AKRRVVQREKRAVGI-GALFLGFLGAAGSTMGAASMTLTVQARQLLSGIVQ
 BH-10 -
 BH-8 -
 LAV - R
 ARV-2 V M V L

551

600

HXB-3 QQNNLLRAIEAQOHLQLTVWGIKQLQARILAVERYLKDQQLLGIWGCSG
 BH-10 G
 BH-8
 LAV
 ARV-2 V R