

Complete nucleotide sequence of hepatitis B virus

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We have cloned and sequenced the HBV DNA obtained from sera of 50 Japanese patients with chronic hepatitis. The DNA sequence (3215 bp) was 96.7%, 97.4% and 97.0% homologous to the HPBADR (1), HPBADRA (2) and HPBVADRM (3).

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1  CTCGAGGACT GGGGACCTG CACCGAACAT GGAGAACA ACATCAGGAT TCCTAGGACC CCTGCTCGTG TTACAGGCGG GGTITTTCTT GTTGACAAGA ATCCTCACAA TACCACAGAG
121 TCTAGACTCG TGGTGGACTI CTCTCAATTT TCTAGGGGGA GCACCCACGT GTCCCTGGCC AAATTCGCAG TCCCAACCT CCAATCACTC ACCAACCTCT TGTCCTCCAA TTTGTCTCG
241 CTATCGCTGG ATGTGTCTGC GGCCTTTTAT CATATTCCTC TTCATCCTGC TCCTATGCCT CATCTTCTTG TTGGTTCTC TGGACTACCA AGGTATGTG CCGGTTTGTG CTCTACTTCC
361 AGGAACATCA ACTACCAGCA CGGGACCATG CAAGACCTGC ACGATTCTCG CTCGAAGAAC CTCTATGTTT CCCTCCTGTT GCTGTACAAA ACCTTCGGAC GGAAACTGCA CTTGTATTCC
481 CATCCCATCA TCCTGGGCTT TCGCAAGATT CCTATGGGAG TGGGCTCAG TCCGTTTCTC CTGGCTCAGT TTAAGTAGTC CATTGTGTCA GTGGTTCGTA GGGCTTTCCC CCACGTGTTG
601 GCTTTCAGTT ATATGGATGA TGTGATTTG GGGGCCAAGT CTGTACAACA TCTTGAGTCC CTTTTTACCT CTATTACCAA TTTTCTTTTG TCTTTGGGTA TACATTTGAA CCCTCATAAA
721 ACCAAACGTT GGGGCTACTC CCTTAACTTC ATGGGATATG TAATTGGAAG TTGGGGTACT TTACCACAGG AACATATGTT ACTAAAAATC AAGCAATGTT TTCGGAAGCT GCCTGTAAT
841 AGACCTATTG ATTGAAAGT ATGTCAAAGG ATTTGGGGT TTTTGGGCTI TGCTGCCCTT TTTACACAAAT GTGGCTATCC TGCCTTGATG CCTTTATATG CATGTATACA ATCTAAGCAG
961 GCTTTCACCT TCTCGCCAAC TTACAAGGCC TTTCTGTGTA AACAAATATCT GCACCTTTAC CCCGTGGCCC GGCAACGGTC AGGTCTCTGC CAAGTGTTTG CTGACGCAAC CCCCCTGGA
1081 TGGGGCTTGG CCATTGGCCA ATCGGGCATG CGTGGAACTT TTGTGGCTCC TCTGCCGATC CATACTGCGG AACTCCTAGC AGCTTGTTTT GCTCGCAGCC GGTCTGGAGC GAAACTTATC
1201 GGGACTGACA ACTCTGTGTI CCTCTCTCGG AAATACACCT CCTTCCCATG GCTGCTCGGG TGTGCTGCCA ACTGGATCCT GCGCGGGAGC TCCTTTGTCT ACGTCCCCTC GCGCTGAAAT
1321 CCCGCGGACG ACCGCTCTCG GGGCCGTTTG GGCCTCTACC GTCCCCTTCT TCATCTGCGG TTCCGGCCGA CCACGGGGCG CGCCTCTCTT TACGCGGTCT CCCCCTCTGT GCCTTCTCAT
1441 CTGCCGGTCC GTGTGCACTT CGCTTACCT CTGCACGTCG CATGGAGACC ACCGTGAACG CCCACCAGGT CTTGCCAAG GTCTTACATA AGAGGACTCT TGGACTCTCA GCGATGTCAA
1561 CGACCGACCT TGAGGCATAT TTCAAAGACT GTTTGTTTAA AGACTGGGAG GAGTTGGGGG AGGAGATTAG GITAATGGTC TTTGTACTAG GAGGCTGTAG GCATAAATTG GTCTGTTAC
1681 CAGCACCATG CAACTTTTTT ACCTCTGCTT AATCATCTCC TGTTATGTGC CTACTGTCCA AGCCTCCAAG CTGTGCTTGG GGTGGCTTAG GGGCATGGAC ATTGACACGT ATAAAAGATT
1801 TGGAGCTTCT GTGGAGTTAC TCTTTTTTTT GCCTTCTGAC TTCTTTCCTT CTATTCGAGA TCTCCTCGAC ACCGCTTTTG CTCTGCATCG GGAGGCCITA GAGTCTCCGG AACATTGTTC
1921 ACCTCACCAT ACAGCACTCA GGCAAGCTAT TGTGTGTTGG GGTGAGTTGA TGAATCTGGC CACCTGGGTG GGAAGTAATT TGAAGAGCCC AGCATCCAGG GAATTGGTAG TCAGCTATGT
2041 CAATGTTAAT ATGGCCCTAA AAATCAGACA ACTATTGTGG TTTCACATTT CTGTCTTAC TTTTGGGAAGA GAAACGGTTC TTGAGTATTT GGATCTGTGT GGAGTGTGGA TTCGCACTCC
2161 TCAAGCCTAC AGACCACCAA ATGCCCTAT CTTATCAACA CTTCGGGAAA CTACTGTGTG TAGACGACGA GGCAGGTCCC CTAGAAGAAG AACTCCCTCG CCTCGCAGAC GAAAGTCTAA
2281 ATCGCCCGCT CGCAGAAGAT CTCAATCTCG GGAATCTCAA TGTTAGTATC CCTTGGACTC ATAAGGTGGG AAACITTTACT GGTCTCTATT CTTCTACTGT ACCTGTCTTT AATCCTGAGT
2401 GGCAAACTCC CTCCTTTCC T AATATTCAAT TACAGGAGGA TATTATTAAT AGATGTCAAC AATATGTAGG CCCTCTTACA GITAATGAAA AAAGGAGATT AAAATTAATT ATGCCTGCTA
2521 GGTCTATCC TAACCTTACC AAATATTGTC CCTTGGATAA AGGATTTAAA CCTTATTATC CTGAACATGC AGTTAATCAT TATTCAAAA CTAGGCATTA TTTACATACT CTGTGGAAGG
2641 CTGGCATTCT ATATAAGAGA GAAACTACAC GTAGTGCCCT ATTTTGTGGG TCACCATATT CTTGGGAACA AGAGCTACAG CATGGGAGGT TGGTCTTCCA AACCTCGACA AGGCATGGGG
2761 ACGAATCTTT CTGTTCCCAA TCCTCTGGGA TTCTTTCCCG ATCACCAGTT GGACCCCTGCA TTCGGAGCCA ACTCAACAA TCCAGATTGG GACTTCAACC CCAACAAGGA TCATTGGCCA
2881 GAGGCAATC AGGTAGGAGC GGGAGCATTT GGGCCAGGTT TCACTCCACC ACACGGCGGT CTTTTGGGGT GGAGCCCTCA GGCTCAGGGC ATATTGACAA CAGTGCCAGC AGCCCTCCT
3001 CCTGCCTCTA CCAATCGGCA GTCAGGAAGA CAGCCTACTC CCATCTCTCC ACCTTAAGA GACAGTCATC CTCAGGCCAT GCAGTGGAAC TCCACAACAT TCCACCAAGC TGTGCTAGAT
3121 CCCAGAGTGA GGGGCTATA TCTTCTGCT GGTGGCTCCA GTTCCGGAAC AGTGAACCTT GTTCCGACTA CTGCTCACC CATATCTGCA ATCTT

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