

Supplementary Figure 1 legend

Supplementary Figure 1. Deduced amino acid sequence analysis of the HBsAg. Alignments of the deduced amino acid sequences obtained from ten S gen sequences of OBI patients. The alignment was performed using one reference HBV sequence genotype H (AY0954.1) with the CLCbio software. The colors shadow in the first line indicate the HBsAg domain. Residues identical to the genotype H reference consensus are indicated by dots. Mutations in red boxes.

Alignment of amino acid sequences deduced from OBI-39 sample clones

Alignment of amino acid sequences deduced from OBI-41 sample clones

Supplementary Figure 1. Alignment of amino acid sequences deduced from sample clones OBI-43. Residues identical to the genotype H reference consensus are indicated by dots. Mutations in red boxes.

Alignment of amino acid sequences deduced from OBI-43 sample clones

		20		40		60	
AY090454.1	MENITSGLLG PLLVLQAV C LL T KILTIPQ SLDSWWTSLN F LGVPPGCPG QNSQSP I SNH						60
OBI-43	.....	Y	.....	.....	.....	.....	60
OBI-43 P1	.....	Y	.....	.....	.....	.....	60
OBI-43 P5	.....	Y	.....	.....	.....	.....	60
OBI-43 P17	.....	Y	.....	.....	.....	.....	60
OBI-43 P19	.....	Y	.....	.....	.....	.....	60
OBI-43 P34	.....	Y	.....	.....	.....	.....	60
OBI-43 P36	.....	Y	.....	.....	.....	.....	60
OBI-43 P37	.....	Y	.....	.....	.....	.....	60
OBI-43 P40	.....	Y	.....	.....	.....	.....	60
OBI-43 P42	.....	Y	.....	.....	.....	.....	60
OBI-43 P43	.....	Y	.....	.....	.....	.....	60
		80		100		120	
AY090454.1	L PTSCPPTCP G YRWMC L RRF I IFLF I LLLC L IFLLV L LDY Q GMLPVCPLL P GST T T S TGP						120
OBI-43	.....	.....	.....	.....	.....	.....	120
OBI-43 P1	.....	.....	.....	.....	.....	.....	120
OBI-43 P5	.....	.....	.....	V	.....	.....	120
OBI-43 P17	.....	.....	.....	.....	.....	Y	120
OBI-43 P19	.....	.....	.....	.....	.....	Y	120
OBI-43 P34	.....	.....	.....	.....	.....	.....	120
OBI-43 P36	.....	.....	.....	.....	.....	.....	120
OBI-43 P37	.....	C	.....	.....	.....	Y	120
OBI-43 P40	.....	.....	.....	.....	.....	.....	120
OBI-43 P42	.....	.....	.....	.....	.....	.....	120
OBI-43 P43	.....	.....	.....	.....	.....	.....	120
		140		160		180	
AY090454.1	C KTCTT L AQ G TSMFP S CC C K PSDG N CT C P IPSSWAF G Y LWEWA S AR F SWL S LLV Q F V						180
OBI-43	.....	.....	.....	.....	.....	.....	180
OBI-43 P1	.....	.....	.....	.....	.....	.....	180
OBI-43 P5	.....	.....	.....	.....	.....	.....	180
OBI-43 P17	.....	.....	.....	.....	.....	.....	180
OBI-43 P19	.....	.....	.....	.....	.....	.....	180
OBI-43 P34	.....	.....	.....	.....	C	.....	180
OBI-43 P36	.....	.....	.....	.....	.....	.....	180
OBI-43 P37	.....	.....	.....	.....	.....	.....	180
OBI-43 P40	.....	.....	.....	.....	.....	.....	180
OBI-43 P42	.....	.....	.....	.....	.....	.....	180
OBI-43 P43	.....	.....	.....	.....	.....	.....	180
		200		220			
AY090454.1	Q WCVGL S PTV W LLV I WM I WY W GPN L CS I LS P FIPL L PI F Y LW A S I						226
OBI-43	.....	M	.....	.....	.....	.....	226
OBI-43 P1	.....	T	.....	.....	.....	.....	226
OBI-43 P5	.....	.....	.....	.....	.....	.....	226
OBI-43 P17	.....	.....	.....	.....	.....	.....	226
OBI-43 P19	.....	T	.....	.....	.....	.....	226
OBI-43 P34	.....	.....	.....	.....	.....	.....	226
OBI-43 P36	.....	.....	.....	.....	.....	.....	226
OBI-43 P37	.....	.....	.....	.....	.....	.....	226
OBI-43 P40	.....	.....	.....	.....	.....	.....	226
OBI-43 P42	.....	.....	.....	.....	.....	.....	226
OBI-43 P43	.....	.....	.....	.....	.....	.....	226

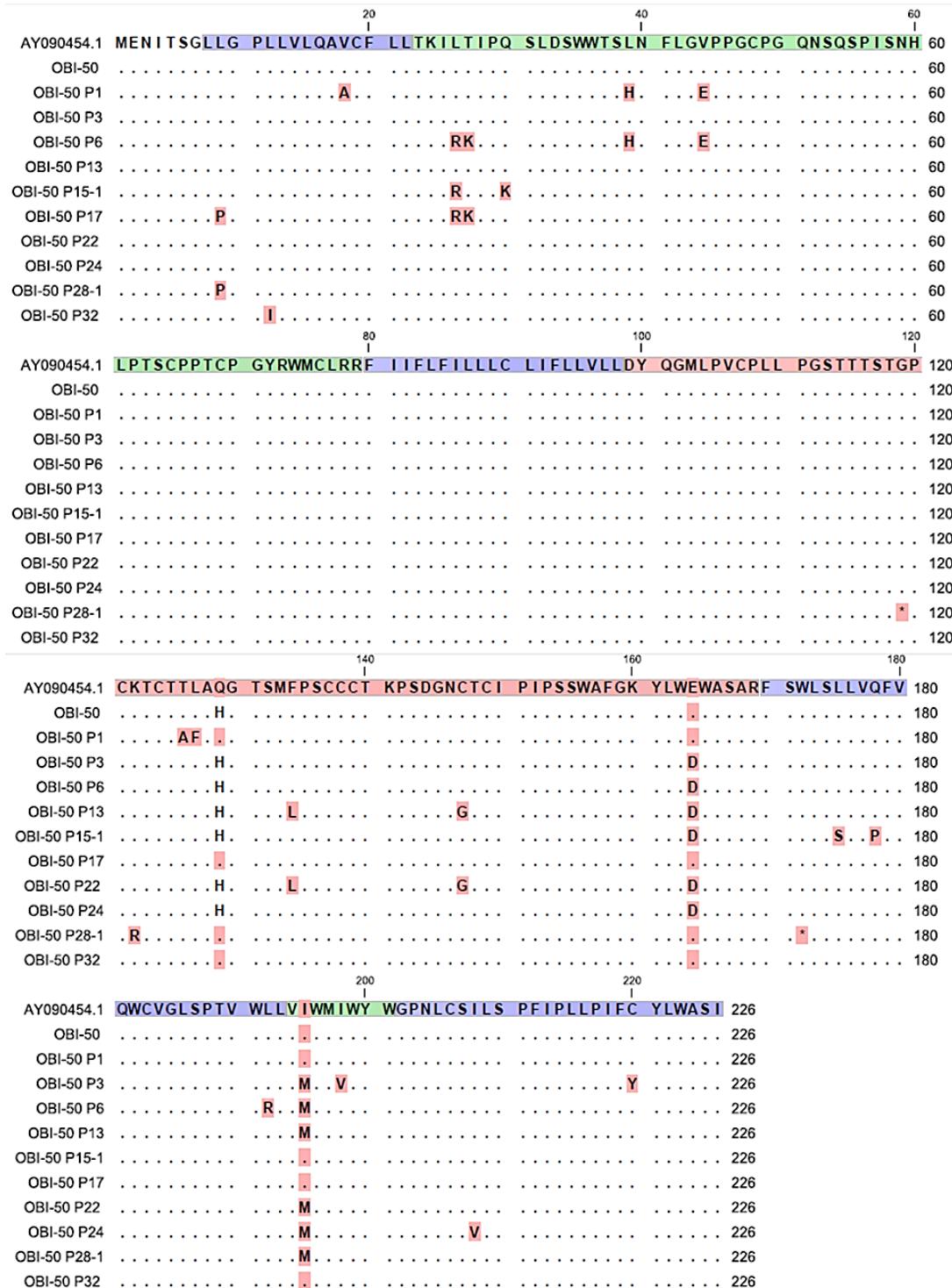
Supplementary Figure 1. Alignment of amino acid sequences deduced from sample clones OBI-43. Residues identical to the genotype H reference consensus are indicated by dots. Mutations in red boxes.

Alignment of amino acid sequences deduced from OBI-44 sample clones

		20		40		60	
AY090454.1	MENITSG I LG PLLVLQAV C F L TKILT I PQ S LD S W T SLN F LG V PP G CPG Q NS S P I SNH						60
OBI-44	.....	Y	.....	.....	.....	.....	60
OBI-44 P8	.....	.	.....	.....	.....	.....	60
OBI-44 P11	.....	.....	Y	.....	.....	.....	60
OBI-44 P12	.....	.....	Y	.....	.....	.....	60
OBI-44 P14	.....	.....	Y	.....	.....	.....	60
OBI-44 P17	.....	.....	Y	.....	.....	.....	60
OBI-44 P19	.....	.....	Y	.....	.....	.....	60
OBI-44 P20	.....	.....	.	.....	.....	.....	60
OBI-44 P22	.....	.....	.	.....	.....	.....	60
OBI-44 P26	.....	.....	Y	.....	.....	.....	60
OBI-44 P30	.....	.....	Y	.....	.....	.....	60
		80		100		120	
AY090454.1	L PT S CPPT C P G YRWM C LRRF I I F L I LL C L I F LL V LL D Y Q GMLPVCPLL P G S TTT S TGP						120
OBI-44	.....	.....	.....	.....	.....	.....	120
OBI-44 P8	.....	.....	.....	.....	.....	.....	120
OBI-44 P11	.....	.....	.....	.....	.....	.....	120
OBI-44 P12	.....	.....	.....	.....	.....	.....	120
OBI-44 P14	.....	.....	.....	.....	.....	.....	120
OBI-44 P17	.....	.....	.....	.....	.....	.....	120
OBI-44 P19	.....	.....	.....	.....	.....	.....	120
OBI-44 P20	.....	.....	.....	.....	.....	.....	120
OBI-44 P22	.....	.....	.....	.....	.....	.....	120
OBI-44 P26	.....	.....	.....	.....	.....	.....	120
OBI-44 P30	.....	.....	.....	.....	.....	.....	120
		140		160		180	
AY090454.1	C KT T CT T LA Q G T SMFP S CC C T K PSDG N CT I P IP S WA F G K Y LWEWA S AR F SW L S LL V Q F V						180
OBI-44	.....	.....	.....	.....	.....	.....	180
OBI-44 P8	.....	.....	.....	.....	S	.....	180
OBI-44 P11	.....	.....	.....	.....	.....	.....	180
OBI-44 P12	.....	.....	.....	.....	.....	.....	180
OBI-44 P14	.....	.....	.....	.....	.....	.....	180
OBI-44 P17	.....	.....	.....	.....	.....	.....	180
OBI-44 P19	.....	.....	.....	.....	.....	.....	180
OBI-44 P20	.....	.....	.....	.....	S	.....	180
OBI-44 P22	.....	.....	R	.....	.....	.....	180
OBI-44 P26	.....	.....	.....	.....	.....	.....	180
OBI-44 P30	.....	.....	.....	.....	.....	.....	180
		200		220			
AY090454.1	Q WC V GL S P T V W LL V IWM I WY W GP N LC S I L S P F I PLL P I F C Y LW A S I						226
OBI-44	.....	.....	.....	.....	.....	.....	226
OBI-44 P8	.....	.....	.....	.....	.....	.....	226
OBI-44 P11	.....	.....	.....	.....	.....	.....	226
OBI-44 P12	.....	.....	.....	.....	.....	.....	226
OBI-44 P14	.....	.....	.....	.....	.....	.....	226
OBI-44 P17	.....	.....	.....	.....	.....	.....	226
OBI-44 P19	.....	.....	.....	.....	.....	.....	226
OBI-44 P20	.....	.....	.....	.....	.....	.....	226
OBI-44 P22	.....	.....	.....	.....	.....	.....	226
OBI-44 P26	.....	.....	.....	.....	.....	.....	226
OBI-44 P30	.....	.....	.....	.....	.....	.....	226

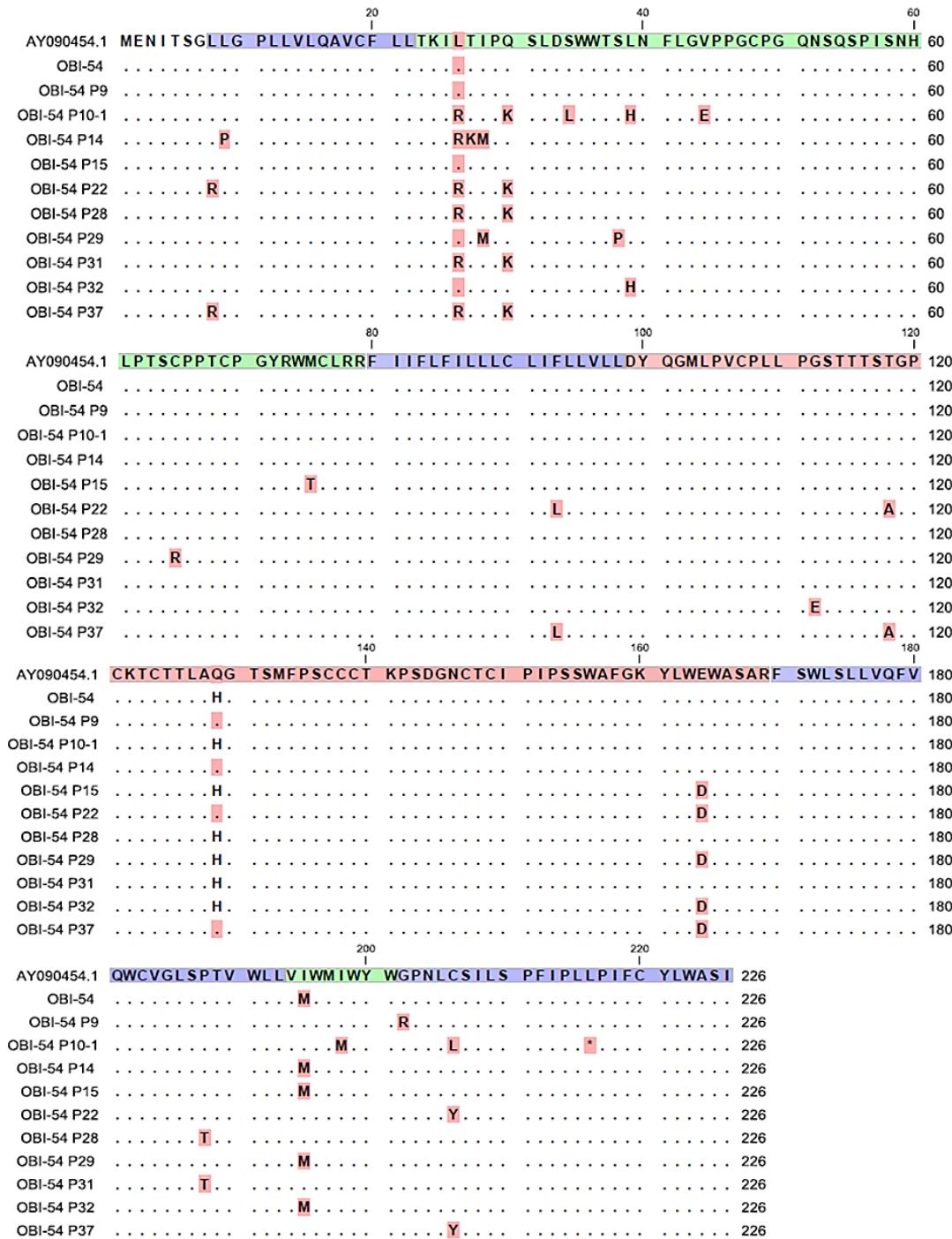
Supplementary Figure 1. Alignment of amino acid sequences deduced from sample clones OBI-44. Residues identical to the genotype H reference consensus are indicated by dots. Mutations in red boxes.

Alignment of amino acid sequences deduced from OBI-50 sample clones



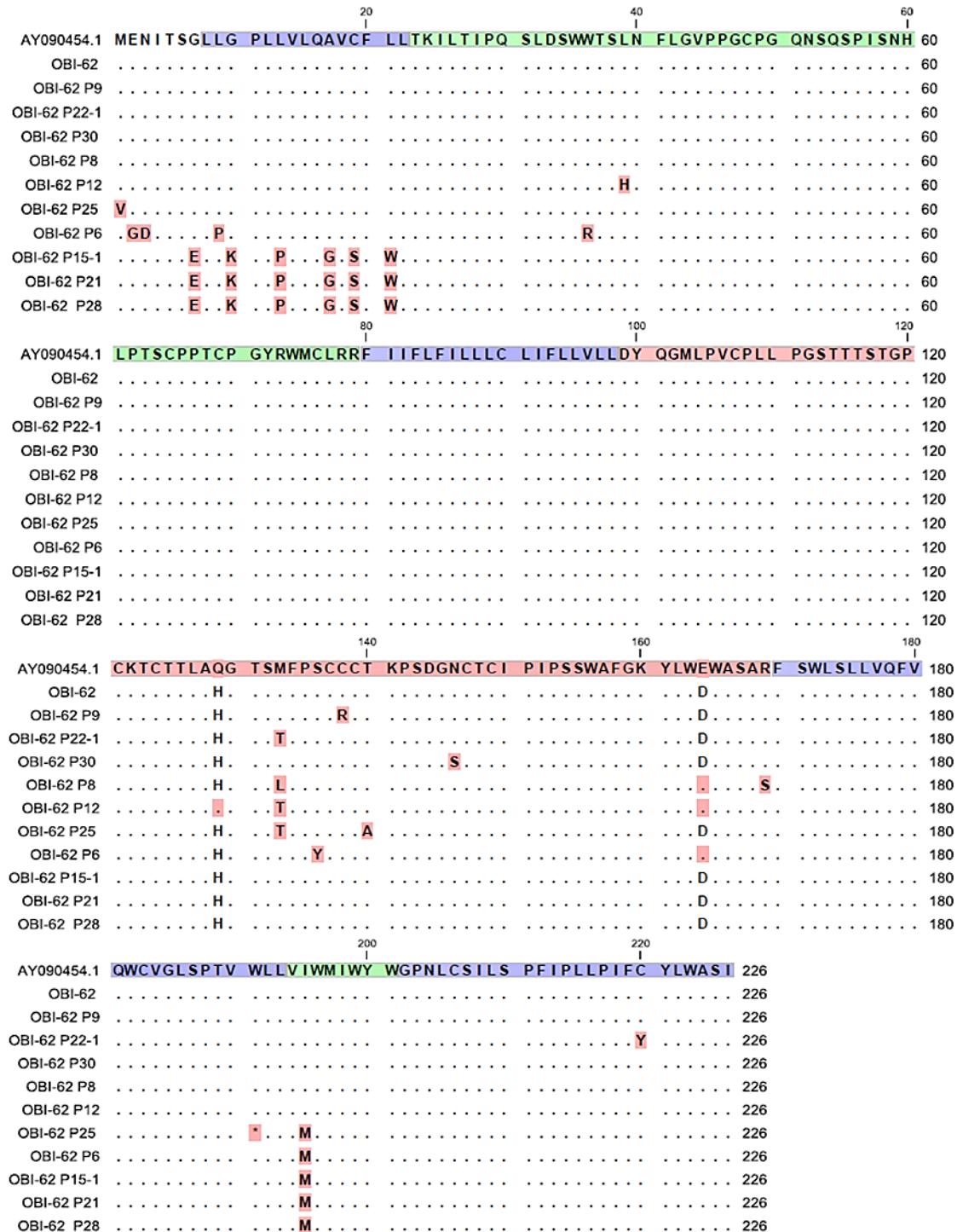
Supplementary Figure 1. Alignment of amino acid sequences deduced from sample clones OBI-50. Residues identical to the genotype H reference consensus are indicated by dots. Mutations in red boxes.

Alignment of amino acid sequences deduced from OBI-54 sample clones



Supplementary Figure 1. Alignment of amino acid sequences deduced from sample clones OBI-54. Residues identical to the genotype H reference consensus are indicated by dots. Mutations in red boxes.

Alignment of amino acid sequences deduced from OBI-62 sample clones



Supplementary Figure 1. Alignment of amino acid sequences deduced from sample clones OBI-62. Residues identical to the genotype H reference consensus are indicated by dots. Mutations in red boxes.

Alignment of amino acid sequences deduced from OBI-75 sample clones

	20	40	60
AY090454.1	MENITSGLLG PLLVLQAVCF LLTKILTIPO SLDSSWTSLN FLGVPPGCPG QNSQSPISNH		60
OBI-75	.....	.....	60
OBI-75 P2	.....	.....	60
OBI-75 P3	P L	R K	60
OBI-75 P4	P L	R K	60
OBI-75 P7	.....	S I	60
OBI-75 P6	.....	.....	60
OBI-75 P8	.....	S I	60
OBI-75 P10	.....	S I	60
OBI-75 P11	L	L	60
OBI-75 P12	P L	.....	60
OBI-75 P16	.....	R	60
	80	100	120
AY090454.1	LPTSCPPTCP GYRWMCRLRF IIFLFILLLC LIFLLVLLDY QGMLPVCPPLL PGSTTTSTGP		120
OBI-75	.....	.....	120
OBI-75 P2	.....	.....	120
OBI-75 P3	Q	R	120
OBI-75 P4	Q	R	120
OBI-75 P7	.....	.....	120
OBI-75 P6	.....	V P	120
OBI-75 P8	.....	.....	120
OBI-75 P10	.....	.....	120
OBI-75 P11	.....	.....	120
OBI-75 P12	.....	.....	120
OBI-75 P16	.....	.....	120
	140	160	180
AY090454.1	CKTCTT LAQG TSMFPSCCCT KPSDGNCCTI PIPSSWAFGK YLWEWASARF SWLSSLVQFV		180
OBI-75	..... H.	.....	180
OBI-75 P2	.....	.....	180
OBI-75 P3	..... H.	Y D	180
OBI-75 P4	..... H.	Y D	180
OBI-75 P7	..... H.	.....	180
OBI-75 P6	.....	S D R	180
OBI-75 P8	..... H.	.....	180
OBI-75 P10	..... H.	.....	180
OBI-75 P11	..... H.	.....	180
OBI-75 P12	..... H.	.....	180
OBI-75 P16	.....	.....	180
	200	220	
AY090454.1	QWCVGLSPTV WLLV IWM IYW WGPNLCSILS PFIPLLPIFC YLWAS I		226
OBI-75	..... M.	.....	226
OBI-75 P2	.....	G	226
OBI-75 P3	..... M.	.....	226
OBI-75 P4	..... M.	.....	226
OBI-75 P7	..... M.	R	226
OBI-75 P6	..... M.	..... Y	226
OBI-75 P8	..... M.	R	226
OBI-75 P10	..... M.	R	226
OBI-75 P11	..... M.	.....	226
OBI-75 P12	..... M.	.....	226
OBI-75 P16	.....	.....	226

Supplementary Figure 1. Alignment of amino acid sequences deduced from sample clones OBI-75. Residues identical to the genotype H reference consensus are indicated by dots. Mutations in red boxes.

Alignment of amino acid sequences deduced from OBI-106 sample clones

		20		40		60
AY090454.1	MENITSGLLG PLLVLQAVCF LLTKILTIPQ SLDSSWTSLN FLGVPPGCPG QNSQSPISNH					60
OBI-106	.....					60
OBI-106 P2	.....					60
OBI-106 P4	.....					60
OBI-106 P6	.....					60
OBI-106 P8	.....					60
OBI-106 P9	..... L	RK	L	.....		60
OBI-106 P12	.....					60
OBI-106 P13	.....					60
OBI-106 P17	..... P L	R	.....			60
OBI-106 P16	..... L	RK	L	.....		60
OBI-106 P18	.....				P	60
		80		100		120
AY090454.1	LPTSCPPTCP GYRWMCLRRF IIFLFILLLC IIFLLVLLDY QGMLPVCPPLL PGSTTTSTGP					120
OBI-106	.....					120
OBI-106 P2	.....					120
OBI-106 P4	.....					120
OBI-106 P6	.....					120
OBI-106 P8	.....				I	120
OBI-106 P9	.....				G R	120
OBI-106 P12	.....		W	.....		120
OBI-106 P13	.....					120
OBI-106 P17	.....					120
OBI-106 P16	.....				G R	120
OBI-106 P18	.....					120
		140		160		180
AY090454.1	CKTCTT LAQG TSMFPSCCCT KPSDGNCCTI PIPSSWAFGK YLWEWASARF SWLSLLVQFV					180
OBI-106	..... H					180
OBI-106 P2	.....	P	.....			180
OBI-106 P4	..... H					180
OBI-106 P6	..... H					180
OBI-106 P8	.....	P	.....			180
OBI-106 P9	..... H		D	.....		180
OBI-106 P12	..... H		D	.....		180
OBI-106 P13	..... H					180
OBI-106 P17	..... H					180
OBI-106 P16	..... H		D	.....		180
OBI-106 P18	..... H	P	.....	D	.....	180
		200		220		
AY090454.1	QWCVGLSPTV WLLV IWMIWY WGPNLCSILS PFIPLLPIFC YLWASI					226
OBI-106	.....	P	.....			226
OBI-106 P2	..... M					226
OBI-106 P4	..... M					226
OBI-106 P6	..... M					226
OBI-106 P8	.....	P	.....			226
OBI-106 P9	..... M					226
OBI-106 P12	..... M					226
OBI-106 P13	..... M					226
OBI-106 P17	.....	P	.....			226
OBI-106 P16	..... M					226
OBI-106 P18	.....	T	.....			226

Supplementary Figure 1. Alignment of amino acid sequences deduced from sample clones OBI-106. Residues identical to the genotype H reference consensus are indicated by dots. Mutations in red boxes.

Alignment of amino acid sequences deduced from OBI-112 sample clones

AY090454.1	MENITSGLLG PLLVLQAVCF LLTKILTIPQ SLDSWWTSLN FLGVPPGCPG QNSQSPISNH	20	40	60
OBI-112	.....Y.....			60
OBI-112 P3	.....Y.....			60
OBI-112 P10	.....Y.....			60
OBI-112 P11	.....Y.....			60
OBI-112 P12	.....Y.....			60
OBI-112 P13	.....Y.....			60
OBI-112 P4	.....Y.....			60
OBI-112 P9	.....	Y		60
OBI-112 P15	.....Y.....			60
AY090454.1	LPTSCPPTCP GYRWMCRRF IIFLFILLLC LIFLLVLLDY QGMLPVCPLL PGSTTTSTGP	80	100	120
OBI-112	.....			120
OBI-112 P3	.....			120
OBI-112 P10	.....			120
OBI-112 P11	.....			120
OBI-112 P12	.....			120
OBI-112 P13	.....			120
OBI-112 P4	.....			120
OBI-112 P9	.....			120
OBI-112 P15	.....R.....			120
AY090454.1	CKTCTT LAQG TSMFPSCCCT KPSDGNCTCI PIPSSWAFGK YLWEWASARF SWLSSLVQFV	140	160	180
OBI-112	.....			180
OBI-112 P3	.....			180
OBI-112 P10	.....			180
OBI-112 P11	.....			180
OBI-112 P12	.....			180
OBI-112 P13	.....			180
OBI-112 P4	.....			180
OBI-112 P9	.....			180
OBI-112 P15	.....			180
AY090454.1	QWCVGLSPTV WLLV IWMIWY WGPNLCSILS PFIPLLPFC YLWASI	200	220	226
OBI-112	.....	Y		226
OBI-112 P3	.....M.....			226
OBI-112 P10	.....M.....			226
OBI-112 P11	.....M.....			226
OBI-112 P12	.....M.....			226
OBI-112 P13	.....M.....			226
OBI-112 P4	.....M.....			226
OBI-112 P9	.....A.....M.....			226
OBI-112 P15	.....M.....			226

Supplementary Figure 1. Alignment of amino acid sequences deduced from sample clones OBI-112. Residues identical to the genotype H reference consensus are indicated by dots. Mutations in red boxes.