

INTERPRETATION TABLE																
HLA-B*39 SSP subtyping																
Amplification patterns of the B*3901 to 3946 alleles																
	Well ⁵															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Length of spec.	230	170	200	145	105	170	165	180	230	105	160	175	85	80	190	165
PCR product							220	390		165						220
Length of int. nos. control ¹	800	1070	800	1070	800	800	1070	1070	800	800	1070	800	800	1070	800	800
5'-primer(s) ²	355	142	142	419	246	142	363	106	357	206	419	412	246	272	97	360
	5'-CCC ³	5'-TCT ³	5'-TCT ³	5'-gTT ³	5'-gAA ³	5'-TCT ³	5'-AgC ³	5'-CCA ³	5'-Tgg ³	5'-gAC ³	5'-gTT ³	5'-ATg ³	5'-gAA ³	5'-CTA ³	5'-TCg ³	5'-CAC ³
			419		246		420	646		419			503		97	368
			5'-gTC ³		5'-gAA ³		5'-TTA ³	5'-ACg ³		5'-gTC ³			5'-CCg ³		5'-TCC ³	5'-gTC ³
																419
																5'-gTA ³
3'-primer(s) ³	544	272	292	524	311	272	544	246	544	272	539	544	299	311	246	544
	5'-ggT ³	5'-TgC ³	5'-gTA ³	5'-CAA ³	5'-ggT ³	5'-Tgg ³	5'-ggT ³	5'-TAT ³	5'-ggT ³	5'-TgC ³	5'-TCC ³	5'-ggT ³	5'-TCA ³	5'-ggT ³	5'-TAT ³	5'-ggT ³
			583					916		544	564		544			
			5'-gTA ³					5'-gAC ³		5'-ggT ³	5'-ACT ³		5'-ggT ³			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HL A-B allele ⁴																
*39010101, 390103, 390106	1	2			5											
*39010102L	1	2			5											
*390104	1	2			5											
*390105	1	2			5											
*390201	1				5	6										
*390202	1					6										
*3903	1	2			5		7									
*3904	1	2			5			8								
*3905	1	2	3		5											
*390601-390602		2			5				9							
*3907	1	?	?		5					10		12				
*3908	1		3		5	6					11					
*3909	1	2			5											16
*3910, 670102 ⁶	1													14		
*3911	1	2	3		5						11					
*3912	1	2			5										15	
*391301-391302	1		3			6										
*3914	1	2			5		7									16
*3915	1	2			5							12				
*3916	1													14		16
*3917	1						7							14		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Length of spec.	230	170	200	145	105	170	165	180	230	105	160	175	85	80	190	165
PCR product							220	390		165						220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*3918	1	2			5					11						
*391901	1	2								10						
*391902	1	2			5					10						
*3920	1		3											14		
*3922	1	2			5											
*3923	1					6							13			
*3924	1	2			5		7									
*3925N	1	2			5											
*3926	1	2		4	5											
*3927	1	2			5								13			
*3928	1	2			5											
*3929	1	2			5		7					12				16
*3930		2			5											
*3931	1	2			5										15	
*3932		2			5											
*3933		2			5						11					
*3934		2			5											
*3935	1	2			5											
*3936		2			5					11						
*3937	1	2	3		5		7									
*3938Q	1	2			5											
*3939	1				5	6										
*3940N	1	2			5					11						
*3941	1	2			5											
*3942		2			5											
*3943		2	3		5											
*3944	1	2			5								13			
*3945	1	2			5											
*3946	1	2			5			8								
*070201-0707, 0709, 0711, 0712, 0714, 0715, 0717-0726, 0728-0731, 0733-0735, 0739-0747, 0749N, 0751-0753, 0755-0764, 0766-0768, 4201, 4202, 420501-4209														14		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Length of spec.	230	170	200	145	105	170	165	180	230	105	160	175	85	80	190	165
PCR product							220	390		165						220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*0708, 0710, 0732, 0736, 080101-0802, 0805-0808N, 0811, 0812, 0814-0816, 0818-0822, 0824, 0826-0837																
*0716, 0737			3											14		
*0727, 0750			3			6										
*0738, 0803, 0823			3													
*0748, 8102														14		
*0754, 0765, 151101-151103, 1576, 9501, 9543, 9548, 4506, 5406, 5514, 5524, 5603, 560501-5606, 8301														14		
*0804						6										
*0809																
*0813, 0825, 7301																
*0817, 1561						6										
*0838																
*1301-130204, 1304, 1306-1314, 1317, 1319, 1321-1323, 1505, 1520, 1531, 1555, 1586, 9507, 2701-2703, 270502-270510, 2707-2709, 2711-2714, 2716, 2717, 2719, 2723, 2726-2739, 2741-2744, 350101-350203, 350401-3505, 3507, 350901-3510, 3512, 3515-3517, 3519-352002, 3522, 3523, 3527-3534,																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Length of spec.	230	170	200	145	105	170	165	180	230	105	160	175	85	80	190	165
PCR product							220	390		165						220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
3537, 3539-3542, 3546-3554, 3557, 3563-3565Q, 356801-3569, 3571, 3572, 3577, 3578, 3581, 3583, 3588-3594, 400101-4004, 40060101-4011, 4013-401403, 4018-4022N, 4024, 4027, 4029-4031, 4033-4040, 4042-4050, 4052-4060, 4062-4066, 4069, 4070, 407201-4094, 440301-440303, 4407, 4413, 4426, 4430-4432,																
4436-4440, 4443, 4445-4447, 4450, 4454, 4457, 4460, 4461N, 446401-4465, 4606, 4613, 47010101-4705, 510901-5110, 5131, 5140, 5142, 5203, 5210, 530101-530104, 5303, 5305, 5307, 5309, 5310, 5312-5315, 570101-570103, 570301-570302, 5706-5708, 5710, 5711, 5715-5718, 580101-5802, 5804, 5807, 5810N, 5811, 5813-5818, 7804																
*1303, 3503, 3506, 3513, 3536, 3555, 3556, 3559, 3570, 3574, 3575, 3584, 4071, 4410, 4611, 5115, 5304, 5607, 5608, 5614, 5904																
*1315																
*1318											11					
*1401, 1407N		2			5											
*140201-1404, 1409		2			5											
*1405-140602		2			5											
*1408		2			5											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Length of spec.	230	170	200	145	105	170	165	180	230	105	160	175	85	80	190	165
PCR product							220	390		165						220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1503, 1547, 1554, 1562, 1568, 1598, 9503, 9527, 9531, 9532, 370101-370104, 3703N-3707, 3709-3714, 4805, 4808, 4815, 4819			3			6										
*1509, 1510, 1518, 1523, 1537, 1551, 1572, 1580, 1590, 1593, 1599, 9508, 9515, 9519, 9534	2 3															
*1529, 1538, 3521, 5137, 5145, 5163, 5306			3													
*1542, 1583, 4101, 4105-4107, 4508, 5121, 5136																
*1549, 1574			3													
*1552, 9514, 9524	2 3															
*1558, 1573											11					
*1564, 1813, 1815, 1819, 1821, 1828, 1830, 1831, 3708	3				6											
*1569	1		3			6				10		12				
*1591, 9523, 9551, 1812, 3702, 4012, 480101-4804, 4807, 4809-4814, 4817, 4818	3				6											
*9533		2	3													
*180101-1803, 1805, 1806, 1808-1811, 1814, 1817N, 1818, 1820, 1822-1827, 1832, 4816	3				6											
*1804, 1807, 1829, 3524, 3525, 5302, 5714, 5809, 5812			3													
*3526					5			8								
*3535										10		12				
*3538																
*3560, 4618, 5412, 5518, 5534, 5901-5903																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Length of spec.	230	170	200	145	105	170	165	180	230	105	160	175	85	80	190	165
PCR product							220	390		165						220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*3576, 4061, 5409, 5504, 5508, 5522, 5609, 5610, 5612, 5615, 5618, 8101, 8103, 8104N													14			
*3582										10						
*3585									10							
*380101-380202, 3809, 3811, 3812, 3815, 3817	1	2	3													
*3803	1				6											
*3804	1	2	3													
*3805	1	2	3													
*3806	1		3													
*3807	1	3														
*3808	w	2	3													
*3810		2	3													
*3813, 3814	1	2														
*3816	1															
*4025, 4068																
*4204													14			
*4429																
*4806	3															
*511301-511302, 5162, 5214																
*5119																
*5122, 7803										10						
*5401, 5402, 5404, 5405N, 5407, 5408N, 5411, 5413-5417, 550201-550202, 5507, 5510, 5512, 5513, 5516, 5519, 5523, 5526, 5527, 5530, 5532, 5623													14			
*5403, 5601, 5602, 5604, 5611, 5616, 5617, 5620, 5622, 5624														14		
*5410, 5521									11				14			
*550101-550104, 550203, 5503, 5505, 5511, 5515, 5517, 5520, 5525, 5528, 5529, 5531, 5533														14		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Length of spec.	230	170	200	145	105	170	165	180	230	105	160	175	85	80	190	165
PCR product							220	390		165						220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*5509									11				14			
*5613, 8201, 8202														14		
*5619N									11				14			
*5820, 6702	1															
*670101	1				5								14			
HLA-B allele ⁴																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Cw*1515																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

INTERPRETATION TABLE	
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HLA-B*39 SSP subtyping

Amplification patterns of the B*3901 to 3946 alleles	
3901	3902
3903	3904
3905	3906
3907	3908
3909	3910
3911	3912
3913	3914
3915	3916
3917	3918
3919	3920
3921	3922
3923	3924
3925	3926
3927	3928
3929	3930
3931	3932
3933	3934
3935	3936
3937	3938
3939	3940
3941	3942
3943	3944
3945	3946

Well ⁵																
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
180	160	385	100	220	150	85	185	230	265	80	180	245	60	150	230	Length of spec.
			215		225					185						PCR product
800	800	1070	800	800	800	800	1070	1070	800	800	1070	800	800	800	800	Length of int.
																pos. control ¹
407	142	44	246	363	142	246	103	-149	361	419	419	357	527	544	112	5'-primer(s) ²
5'-ggg ^{3'}	5'-TCT ^{3'}	5'-ggC ^{3'}	5'-gAA ^{3'}	5'-Agg ^{3'}	5'-TCT ^{3'}	5'-gAA ^{3'}	5'-CCT ^{3'}	5'-ggg ^{3'}	5'-AgT ^{3'}	5'-gTT ^{3'}	5'-gTT ^{3'}	5'-Tgg ^{3'}	5'-TgA ^{3'}	5'-gAg ^{3'}	5'-CCT ^{3'}	
			368		362					544					355	
			5'-gTC ^{3'}		5'-gAC ^{3'}					5'-gAA ^{3'}					5'-TCA ^{3'}	
			486													
		5'-ACg ^{3'}														
544	259	259	299	544	299	292	246	44	583	563	559	559	544	3 rd I	311	3'-primer(s) ³
5'-ggT ^{3'}	5'-CTC ^{3'}	5'-gTT ^{3'}	5'-TCA ^{3'}	5'-ggT ^{3'}	5'-TCA ^{3'}	5'-gTC ^{3'}	5'-TAT ^{3'}	5'-CCg ^{3'}	5'-gTg ^{3'}	5'-CgA ^{3'}	5'-CAG ^{3'}	5'-CgT ^{3'}	5'-ggT ^{3'}	5'-TAT ^{3'}	5'-ggT ^{3'}	
			544		544					583	564				544	
			5'-ggT ^{3'}		5'-ggT ^{3'}					5'-gTg ^{3'}	5'-ACT ^{3'}				5'-ggT ^{3'}	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																HI A-B allele ⁴
		19		21		23	24									*39010101, 390103, 390106
		19		21		23	24	25								*39010102L
		19		21			24									*390104
		19	20	21		23	24									*390105
	18			21		23	24									*390201
	18			21												*390202
		19				23	24									*3903
		19		21		23										*3904
		19		21			24									*3905
		19				23	24					29				*390601-390602
		19		21			?									*3907
	18			21			24									*3908
		19	20	21		23	24									*3909
		19		21												*3910, 670102 ⁶
		19		21			24									*3911
		19		21		23										*3912
	18			21												*391301-391302
		19				23	24									*3914
		19		21		23	24									*3915
		19														*3916
		19		21												*3917
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

180	160	385	100	220	150	85	185	230	265	80	180	245	60	150	230	Length of spec.	
			215		225					185						PCR product	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	
		19	20	21		23	24						30			*3918	
		19		21												*391901	
		19		21		23	24									*391902	
		19		21												*3920	
	18			21		23	24									*3922	
	18			21												*3923	
		19				23	24							32		*3924	
17		19		21		23	24									*3925N	
		19		21		23	24									*3926	
		19	20	21		23	24									*3927	
		19			22	23	24									*3928	
		19				23	24									*3929	
		19				23	24						31			*3930	
		19		21		23	24									*3931	
		19				23	24			27	28					*3932	
		19				23	24				28					*3933	
		19				23	24					29		31		*3934	
		19		21		23	24						30			*3935	
		19				23	24									*3936	
		19					24									*3937	
		19		21		23	24			27						*3938Q	
		19		21		23	24									*3939	
		19		21		23	24				28					*3940N	
		19		21		23	24								32	*3941	
		19				23	24							32		*3942	
		19				23	24							31		*3943	
		19		21		23	24									*3944	
		19		21	22	23										*3945	
		19		21		23	24									*3946	
		19														*070201-0707, 0709, 0711, 0712, 0714, 0715, 0717- 0726, 0728-0731, 0733- 0735, 0739-0747, 0749N, 0751-0753, 0755-0764, 0766-0768, 4201, 4202, 420501-4209	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	

180	160	385	100	220	150	85	185	230	265	80	180	245	60	150	230	Length of spec.
			215		225					185						PCR product
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
19																*0708, 0710, 0732, 0736, 080101-0802, 0805-0808N, 0811, 0812, 0814-0816, 0818-0822, 0824, 0826- 0837
		19														*0716, 0737
		19														*0727, 0750
		19														*0738, 0803, 0823
19												31				*0748, 8102
																*0754, 0765, 151101- 151103, 1576, 9501, 9543, 9548, 4506, 5406, 5514, 5524, 5603, 560501-5606, 8301
		19														*0804
		19										29				*0809
19												31				*0813, 0825, 7301
	18															*0817, 1561
	18															*0838
														31		*1301-130204, 1304, 1306- 1314, 1317, 1319, 1321- 1323, 1505, 1520, 1531, 1555, 1586, 9507, 2701- 2703, 270502-270510, 2707- 2709, 2711-2714, 2716, 2717, 2719, 2723, 2726- 2739, 2741-2744, 350101- 350203, 350401-3505, 3507, 350901-3510, 3512, 3515-3517, 3519-352002, 3522, 3523, 3527-3534,
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

180	160	385	100	220	150	85	185	230	265	80	180	245	60	150	230	Length of spec.
			215		225					185						PCR product
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
														31		3537, 3539-3542, 3546-3554, 3557, 3563-3565Q, 356801-3569, 3571, 3572, 3577, 3578, 3581, 3583, 3588-3594, 400101-4004, 40060101-4011, 4013-401403, 4018-4022N, 4024, 4027, 4029-4031, 4033-4040, 4042-4050, 4052-4060, 4062-4066, 4069, 4070, 407201-4094, 440301-440303, 4407, 4413, 4426, 4430-4432,
														31		4436-4440, 4443, 4445-4447, 4450, 4454, 4457, 4460, 4461N, 446401-4465, 4606, 4613, 47010101-4705, 510901-5110, 5131, 5140, 5142, 5203, 5210, 530101-530104, 5303, 5305, 5307, 5309, 5310, 5312-5315, 570101-570103, 570301-570302, 5706-5708, 5710, 5711, 5715-5718, 580101-5802, 5804, 5807, 5810N, 5811, 5813-5818, 7804
										28				31		*1303, 3503, 3506, 3513, 3536, 3555, 3556, 3559, 3570, 3574, 3575, 3584, 4071, 4410, 4611, 5115, 5304, 5607, 5608, 5614, 5904
										27				31		*1315
																*1318
		19				23	24		26							*1401, 1407N
		19				23			26							*140201-1404, 1409
		19				23										*1405-140602
		19				23	24									*1408
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

180	160	385	100	220	150	85	185	230	265	80	180	245	60	150	230	Length of spec.
			215		225					185						PCR product
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
	18															*1503, 1547, 1554, 1562, 1568, 1598, 9503, 9527, 9531, 9532, 370101-370104, 3703N-3707, 3709-3714, 4805, 4808, 4815, 4819
																*1509, 1510, 1518, 1523, 1537, 1551, 1572, 1580, 1590, 1593, 1599, 9508, 9515, 9519, 9534
																*1529, 1538, 3521, 5137, 5145, 5163, 5306
												29				*1542, 1583, 4101, 4105-4107, 4508, 5121, 5136
	18															*1549, 1574
														31		*1552, 9514, 9524
											28					*1558, 1573
																*1564, 1813, 1815, 1819, 1821, 1828, 1830, 1831, 3708
	18		20	21									30			*1569
														31		*1591, 9523, 9551, 1812, 3702, 4012, 480101-4804, 4807, 4809-4814, 4817, 4818
											28					*9533
														31		*180101-1803, 1805, 1806, 1808-1811, 1814, 1817N, 1818, 1820, 1822-1827, 1832, 4816
														31		*1804, 1807, 1829, 3524, 3525, 5302, 5714, 5809, 5812
														31		*3526
															32	*3535
											28					*3538
												29		31		*3560, 4618, 5412, 5518, 5534, 5901-5903
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

180	160	385	100	220	150	85	185	230	265	80	180	245	60	150	230	Length of spec.	
			215		225					185						PCR product	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	
														31		*3576, 4061, 5409, 5504, 5508, 5522, 5609, 5610, 5612, 5615, 5618, 8101, 8103, 8104N	
														31		*3582	
										28				31		*3585	
		19		21			24									*380101-380202, 3809, 3811, 3812, 3815, 3817	
18				21			24									*3803	
18				21												*3804	
		19		21												*3805	
		19		21												*3806	
		19		21			24									*3807	
		19		w			24									*3808	
		19					24									*3810	
		19		21			24									*3813, 3814	
		19		21			24									*3816	
		?												31		*4025, 4068	
		19										29				*4204	
															32	*4429	
		19												31		*4806	
										27	28					*511301-511302, 5162, 5214	
										27						*5119	
																*5122, 7803	
												29		31		*5401, 5402, 5404, 5405N, 5407, 5408N, 5411, 5413-5417, 550201-550202, 5507, 5510, 5512, 5513, 5516, 5519, 5523, 5526, 5527, 5530, 5532, 5623	
											28			31		*5403, 5601, 5602, 5604, 5611, 5616, 5617, 5620, 5622, 5624	
												29				*5410, 5521	
												29				*550101-550104, 550203, 5503, 5505, 5511, 5515, 5517, 5520, 5525, 5528, 5529, 5531, 5533	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.	

180	160	385	100	220	150	85	185	230	265	80	180	245	60	150	230	Length of spec.
			215		225					185						PCR product
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																*5509
											28					*5613, 8201, 8202
											28			31		*5619N
				21												*5820, 6702
		19		21		23	24									*670101
																HLA-B allele ⁴
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
											28					Cw*1515
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.