

INTERPRETATION TABLE																
HLA-B*39 SSP subtyping																
Amplification patterns of the B*3901 to 3955 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	170	175	85	80	145	165
PCR product(s)				385			220	405		165			385		190	220
Length of int.	800	1070	800	1070	800	800	1070	1070	1070	800	1070	800	800	1070	800	800
pos. control ¹																
5'-primer(s) ²	355	142	142	246	246	142	363	106	357	206	419	412	246	272	97	360
	5'-CCC 3'	5'-TCT 3'	5'-TCT 3'	5'-gAA 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'
	355		419	419	246		420	420		419			503		97	368
	5'-CTC 3'	5'-gTC 3'	5'-gTT 3'	5'-gAA 3'	5'-TTA 3'	5'-TTC 3'	5'-gTC 3'						5'-CCg 3'	5'-TCC 3'	5'-gTC 3'	
								646							141	419
								5'-ACg 3'							5'-ATg 3'	5'-gTA 3'
															419	
															5'-gTT 3'	
3'-primer(s) ³	544	272	292	344	311	272	544	246	544	272	539	544	299	311	246	544
	5'-ggT 3'	5'-TgC 3'	5'-gTA 3'	5'-ACg 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	524				559		544	539		344		563	
			5'-gTg 3'	5'-CAA 3'				5'-CTC 3'	5'-ggT 3'	5'-TCC 3'	5'-ACg 3'	5'-CgA 3'				
								916			564		544			
								5'-gAC 3'			5'-ACT 3'	5'-ggT 3'				
											565					
											5'-CAT 3'					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HLA-B allele ⁴																
*39010101, 390103, 390106-390108, 390110	1	2			5											
*39010102L	1	2			5											
*390104	1	2			5											
*390105	1	2			5											
*390109	1	2														
*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	2	3		5					10		12				
*3908	1		3		5	6					11					
*3909	1	2			5											16
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	170	175	85	80	145	165
PCR product(s)				385			220	405		165			385		190	220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	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		
*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										15	
*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								
*3947		2			5			8								
*3948	1	2			5											
*3949	1		3			6						12				
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	170	175	85	80	145	165
PCR product(s)				385			220	405		165			385		190	220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*3950		2			5			8								
*3951	1	2		4	5								13			
*3952	1				5											
*3953	1	2			5						11					
*3954	1				5										15	
*070201-0707, 0709, 0711, 0712, 0714, 0715, 0717-0726, 0728-0731, 0733-0735, 0739-0747, 0749N, 0751-0753, 0755-0764, 0766-0768, 0770-0774, 0776, 0777, 0779, 0780, 0782, 0786-0790, 0792-0799, 420101-4202, 420501-4210, 4212, 4213														14		
*0708, 0710, 0732, 0736, 0781, 0783, 080101-0802, 0805-0808N, 0811-081203, 0814-0816, 0818-0822, 0824, 0826-0837, 0839-0847																
*0716, 0737, 0775, 0791			3											14		
*0727, 0750			3			6										
*0738, 0803, 0823			3													
*0748, 8102														14		
*0754, 0765, 151101-151104, 1576, 9501, 9543, 9548, 9552, 4506, 5406, 5514, 5603, 560501-5606, 8301														14		
*0769, 0785		2														
*0778											11			14		
*0784, 4204														14		
*0804						6										
*0809, 7301																
*0813, 0825																
*0817, 1561						6										
*0838																
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	170	175	85	80	145	165
PCR product(s)				385			220	405		165			385		190	220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*130101, 130102, 1304, 1306, 1307N, 1310-1313, 1317, 1321-1323, 1325, 1326, 1328, 1329, 1505, 1520, 1531, 1555, 1586, 9507, 9555, 2701-2703, 270502-270512, 2707-2709, 2711-2713, 2716, 2717, 2719, 2723, 2726-2739, 2741-2744, 2746, 2748-2753, 2755-2759N, 350101-350203, 350401-3505, 3507, 350901-3510, 351201, 351202, 3515-3517, 3519-352002, 3522, 3523, 3527-3534, 3537, 3539-3542, 3546-3554, 3557, 3563-3565Q, 356801-3569, 3571, 3572, 3577, 3578, 3581, 3583, 3588-3595, 3597, 400101-4004, 4007-4011, 4013-401403, 4018-4022N, 4024, 4027, 4029-4031, 4033-4035, 4037-4040, 4042, 4043,																
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	170	175	85	80	145	165
PCR product(s)				385			220	405		165			385		190	220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
4045-4050, 4052, 4054-4060, 4062-4067, 4069, 407201-4074, 4076, 4078-4082, 4084, 4085, 4087-4092, 4094, 4097, 440301-440308, 4407, 4413, 4426, 4430-4432, 4436-4440, 4443, 4445-4447, 4450, 4454, 4457, 4460, 4461N, 446401-4465, 4469, 4477, 4481, 4482, 4485, 4606, 461301, 461302, 4621, 47010101-4705, 510901, 510902, 5140, 5142, 5173, 5181, 5203, 5210, 530101-530105, 5303, 5305, 5307, 5309, 5310, 5312-5315, 5317-5319, 570101-570105, 570301, 570302, 5706-5708, 5710, 5711, 5715-5718, 5720, 5721, 5723, 5725, 5726, 580101-5802, 5804, 5807, 5810N, 5811, 5813-5818, 5821, 5823, 5824, 7804																
*130201-130206, 1308Q, 1309, 1314, 1319, 1327, 1330, 2714, 3560, 40060101-400602, 4044, 4053, 4070, 4075, 4083, 4093, 4096, 4618, 5110, 5131, 5412, 5518, 5534, 5901-5903, 5905																
*1303, 350301, 350302, 3506, 3513, 3536, 3555, 3556, 3559, 3570, 3574, 3575, 3584, 3598, 4071, 4410, 4611, 5115, 5304, 5607, 5608, 5614, 5904																
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	170	175	85	80	145	165
PCR product(s)				385			220	405		165			385		190	220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1315																
*1316, 1542, 1583, 4095, 4101, 4105-4107, 4109, 4112, 4508, 4510, 4907, 5116, 5121, 5134, 5136, 5182, 5208																
*1318											11					
*1401, 1407N, 1412		2			5											
*140201, 140202, 1403, 1409, 1415, 1416		2			5											
*140203		2														
*1404		2			5											
*1405-140602, 1413		2			5											
*1408, 1410		2			5											
*1411		2			5			8								
*1414		2	3		5											
*150301-150303, 1547, 1554, 1562, 1568, 1598, 9503, 9527, 9531, 9532, 9556, 9558, 9573, 370101-370107, 3703N-3707, 3709-3719, 4211, 4805, 4808, 4815, 4819, 5216			3		6											
*1509, 1510, 151801-151803, 1523, 1537, 1551, 1572, 1580, 1590, 1593, 1599, 9508, 9515, 9519, 9534, 9553, 9561, 9576		2	3													
*1529, 153801, 153802, 3521, 5137, 5145, 5163, 5306			3													
*1549, 1574			3													
*1552, 9514, 9524		2	3													
*1558, 1573											11					
*1564, 1813, 1815, 1819, 1821, 1830, 3708			3		6											
*1569	1		3			6				10		12				
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	170	175	85	80	145	165
PCR product(s)				385			220	405		165			385		190	220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*1591, 9523, 9551, 1812, 3702, 4012, 480101-4804, 4809-4814, 4817, 4818, 4820	3				6											
*9533		2	3													
*180101-1803, 1805, 1806, 1808-1811, 1814, 1817N, 1818, 1820, 1822-1828, 1831, 1832, 1834-1843, 1845, 4816	3				6											
*1804, 180701, 180702, 1829, 3524, 3525, 5302, 5714, 5809, 5812			3													
*1833		2	3						10							
*1844			3			6										
*3526					5			8								
*3535										10		12				
*3538, Cw*1515																
*3576, 4061, 5409, 5504, 5508, 5609, 5610, 5612, 5615, 5618, 8101, 8103, 8104N														14		
*3582									10							
*3585										10						
*3596, 5119																
*380101-380202, 3809, 3811, 3812, 3817, 3818	1	2	3													
*3803	1				6											
*3804	1	2	3													
*3805	1	2	3													
*3806	1		3													
*3807	1		3													
*3808		2	3													
*3810		2	3													
*3813	1	2														
*3814	1	2														
*3815		2	3													
*3816	1															
*3819	1	2	3				7									
*3820		2	3													
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	170	175	85	80	145	165
PCR product(s)				385			220	405		165			385		190	220
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*4025, 4068																
*4036, 4077								8								
*4086								8								
*4806			3													
*4807			3			6		8								
*511301, 511302, 5162, 5214																
*5122, 7803										10						
*5401, 5402, 5404, 5405N, 5407, 5408N, 5411, 5413-5419, 550201-550205, 5507, 5510, 5512, 5513, 5516, 5519, 5522, 5523, 5526, 5527, 5530, 5532, 5535, 5623														14		
*5403, 560101-5602, 5604, 5611, 5616, 5617, 5620, 5622, 5624, 5626														14		
*5410, 5509, 5521, 5537											11			14		
*550101-550106, 5503, 5505, 5511, 5515, 5517, 5520, 5524, 5525, 5528, 5529, 5531, 5533, 5536, 5538														14		
*5613, 5625, 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*0130																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

180	160	385	100	220	150	85	185	235	265	70	180	245	60	155	230	Length of spec.
			215		225					195			180			PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
		19		21												*3910, 670102 ⁶
		19		21			24									*3911
		19		21		23										*3912
	18			21												*391301, 391302
		19				23	24								w	*3914
		19		21		23	24									*3915
		19														*3916
		19		21												*3917
		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								w	*3929
		19				23	24							31		*3930
		19		21		23	w									*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									w	*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		w		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				23	24									*3947
		19		21		23	24			27						*3948
	18			21												*3949
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	235	265	70	180	245	60	155	230	Length of spec.
			215		225					195			180			PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
		19				23	24					29				*3950
		19		21		23	24									*3951
		19		21		23	24						30			*3952
		19		21		23	24									*3953
		19		21		23	24									*3954
19																*070201-0707, 0709, 0711, 0712, 0714, 0715, 0717-0726, 0728-0731, 0733-0735, 0739-0747, 0749N, 0751-0753, 0755-0764, 0766-0768, 0770-0774, 0776, 0777, 0779, 0780, 0782, 0786-0790, 0792-0799, 420101-4202, 420501-4210, 4212, 4213
		19														*0708, 0710, 0732, 0736, 0781, 0783, 080101-0802, 0805-0808N, 0811-081203, 0814-0816, 0818-0822, 0824, 0826-0837, 0839-0847
		19														*0716, 0737, 0775, 0791
		19														*0727, 0750
		19														*0738, 0803, 0823
		19												31		*0748, 8102
																*0754, 0765, 151101-151104, 1576, 9501, 9543, 9548, 9552, 4506, 5406, 5514, 5603, 560501-5606, 8301
		19														*0769, 0785
		19										29				*0778
		19										29				*0784, 4204
		19														*0804
		19										29				*0809, 7301
		19												31		*0813, 0825
	18															*0817, 1561
	18															*0838
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	235	265	70	180	245	60	155	230	Length of spec.
			215		225					195			180			PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
														31		*130101, 130102, 1304, 1306, 1307N, 1310-1313, 1317, 1321-1323, 1325, 1326, 1328, 1329, 1505, 1520, 1531, 1555, 1586, 9507, 9555, 2701-2703, 270502-270512, 2707-2709, 2711-2713, 2716, 2717, 2719, 2723, 2726-2739, 2741-2744, 2746, 2748- 2753, 2755-2759N, 350101- 350203, 350401-3505, 3507, 350901-3510, 351201, 351202, 3515- 3517, 3519-352002, 3522, 3523, 3527-3534, 3537, 3539-3542, 3546-3554, 3557, 3563-3565Q, 356801- 3569, 3571, 3572, 3577, 3578, 3581, 3583, 3588- 3595, 3597, 400101-4004, 4007-4011, 4013-401403, 4018-4022N, 4024, 4027, 4029-4031, 4033-4035, 4037-4040, 4042, 4043,
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	235	265	70	180	245	60	155	230	Length of spec.
			215		225					195			180			PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
												31				4045-4050, 4052, 4054-4060, 4062-4067, 4069, 407201-4074, 4076, 4078-4082, 4084, 4085, 4087-4092, 4094, 4097, 440301-440308, 4407, 4413, 4426, 4430-4432, 4436-4440, 4443, 4445-4447, 4450, 4454, 4457, 4460, 4461N, 446401-4465, 4469, 4477, 4481, 4482, 4485, 4606, 461301, 461302, 4621, 47010101-4705, 510901, 510902, 5140, 5142, 5173, 5181, 5203, 5210, 530101-530105, 5303, 5305, 5307, 5309, 5310, 5312-5315, 5317-5319, 570101-570105, 570301, 570302, 5706-5708, 5710, 5711, 5715-5718, 5720, 5721, 5723, 5725, 5726, 580101-5802, 5804, 5807, 5810N, 5811, 5813-5818, 5821, 5823, 5824, 7804
												29		31		*130201-130206, 1308Q, 1309, 1314, 1319, 1327, 1330, 2714, 3560, 40060101-400602, 4044, 4053, 4070, 4075, 4083, 4093, 4096, 4618, 5110, 5131, 5412, 5518, 5534, 5901-5903, 5905
								28				31				*1303, 350301, 350302, 3506, 3513, 3536, 3555, 3556, 3559, 3570, 3574, 3575, 3584, 3598, 4071, 4410, 4611, 5115, 5304, 5607, 5608, 5614, 5904
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	235	265	70	180	245	60	155	230	Length of spec.
			215		225					195			180			PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
										27		29		31		*1315
												29				*1316, 1542, 1583, 4095, 4101, 4105-4107, 4109, 4112, 4508, 4510, 4907, 5116, 5121, 5134, 5136, 5182, 5208
												29				*1318
		19				23	24		26							*1401, 1407N, 1412
		19				23			26							*140201, 140202, 1403, 1409, 1415, 1416
		19							26							*140203
						23			26							*1404
		19				23										*1405-140602, 1413
		19				23	24									*1408, 1410
		19				23			26							*1411
		19					24		26							*1414
																*150301-150303, 1547, 1554, 1562, 1568, 1598, 9503, 9527, 9531, 9532, 9556, 9558, 9573, 370101- 370107, 3703N-3707, 3709- 3719, 4211, 4805, 4808, 4815, 4819, 5216
																*1509, 1510, 151801- 151803, 1523, 1537, 1551, 1572, 1580, 1590, 1593, 1599, 9508, 9515, 9519, 9534, 9553, 9561, 9576
																*1529, 153801, 153802, 3521, 5137, 5145, 5163, 5306
	18															*1549, 1574
													31			*1552, 9514, 9524
											28					*1558, 1573
																*1564, 1813, 1815, 1819, 1821, 1830, 3708
	18		20	21									30			*1569
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	235	265	70	180	245	60	155	230	Length of spec.
			215		225					195			180			PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
18												31				*1591, 9523, 9551, 1812, 3702, 4012, 480101-4804, 4809-4814, 4817, 4818, 4820
											28					*9533
												31				*180101-1803, 1805, 1806, 1808-1811, 1814, 1817N, 1818, 1820, 1822-1828, 1831, 1832, 1834-1843, 1845, 4816
														31		*1804, 180701, 180702, 1829, 3524, 3525, 5302, 5714, 5809, 5812
														31		*1833
									26					31		*1844
														31		*3526
															32	*3535
											28					*3538, Cw*1515
														31		*3576, 4061, 5409, 5504, 5508, 5609, 5610, 5612, 5615, 5618, 8101, 8103, 8104N
														31		*3582
											28			31		*3585
										27						*3596, 5119
		19		21			24									*380101-380202, 3809, 3811, 3812, 3817, 3818
	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
		19		21		w	24									*3814
		19		21			24									*3815
	19			21			24									*3816
		19					24								w	*3819
		19					24								32	*3820
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	235	265	70	180	245	60	155	230	Length of spec.
			215		225					195			180			PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
		?												31		*4025, 4068
														31		*4036, 4077
												29		31		*4086
		19												31		*4806
	18													31		*4807
										27	28					*511301, 511302, 5162, 5214
																*5122, 7803
												29		31		*5401, 5402, 5404, 5405N, 5407, 5408N, 5411, 5413-5419, 550201-550205, 5507, 5510, 5512, 5513, 5516, 5519, 5522, 5523, 5526, 5527, 5530, 5532, 5535, 5623
											28			31		*5403, 560101-5602, 5604, 5611, 5616, 5617, 5620, 5622, 5624, 5626
												29				*5410, 5509, 5521, 5537
												29				*550101-550106, 5503, 5505, 5511, 5515, 5517, 5520, 5524, 5525, 5528, 5529, 5531, 5533, 5536, 5538
											28					*5613, 5625, 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.
									26							Cw*0130
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.