

Olerup SSP® HLA-B*07

Product number:	101.512-24/03 – including <i>Taq</i> pol.
Lot number:	68G
Expiry date:	2012-February-01
Number of tests:	24 tests – Product No. 101.512-24 3 tests – Product No. 101.512-03
Number of wells per test:	68
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 68G.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*® HLA-B*07 LOT

The HLA-B*07 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP*® HLA-B*07 lot was made (Lot No. 31F).

Twenty-three wells have been added to the HLA-B*07 kit, wells **46 to 68**.

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

Well	5'-primer	3'-primer	rationale
3	Added	-	Primers added for the B*070210 and B*070218 alleles.
6	-	Added	Increased yield of specific PCR product.
7	-	Modified	Increased specificity of primer pair.
10	-	Added	Primer added for the B*0781 allele.
12	-	Modified	Increased specificity of primer pair.
14	Exchanged	Exchanged	Exchanged specific and positive control primer pair, to decrease dimer formation.
15	Moved	Moved	Primer pair moved to well 46, for improved resolution.
18	Moved	Moved	Primer pairs moved to wells 65 and 66, for increased specificity.
24	-	-	Exchanged positive control primer pair.

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25	Moved	Moved	Primer pair to well 56 and exchanged positive control primer pair, to decrease primer dimer formation.
34	Added	-	Primer added for the B*0790 allele.
39	-	Removed	Primer removed for improved specificity.
40	-	Added	Primer added for the B*0783 allele.
42	Added	-	Primer added for the B*0771 allele.
46	New	New	Primer pair from well 15.
47	New	New	Improved allele resolution.
48	New	New	Primer pairs for the B*0776 and B*0777 alleles.
49	New	New	Primer pair for the B*0782 allele.
50	New	New	Primer pairs for the B*0787 and B*0774 alleles.
51	New	New	Primer pairs for the B*0793 and B*0797 alleles.
52	New	New	Primer pair for the B*0795 allele.
53	New	New	Primer pair for the B*0796 allele.
54	New	New	Primer pair for the B*0798 allele.
55	New	New	Primer pair for the B*0799 allele.
56	New	New	Primer pair from well 25.
57	New	New	Primer pair for the B*0770 allele.
58	New	New	Primer pair for the B*0779 allele.
59	New	New	Primer pair for the B*0789 allele.
60	New	New	Primer pair for the B*0773 allele.
61	New	New	Primer pair for the B*0788 allele.
62	New	New	Primer pair for the B*0791 allele.
63	New	New	Primer pair for the B*0794 allele.
64	New	New	Primer pair for the B*0785 allele.
65	New	New	Primer pair from well 18.
66	New	New	Primer pair from well 18.
67	New	New	Primer pair for the B*0786 allele.
68	New	New	Increased allelic resolution.

PRODUCT DESCRIPTION

HLA-B*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*0702 to B*0799 alleles.

PLATE LAYOUT

Each test consists of 68 PCR reactions in a 96 well cut PCR plate. Wells 69 to 96 are empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	empty	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty

The 96 well cut PCR plate is marked with ‘HLA-B*07’ in silver/gray ink.

Well No. 1 is marked with the Lot Number ‘68G’.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are covered with a PCR-compatible foil.

INTERPRETATION

The interpretation of HLA-B*07 SSP subtypings will be influenced by the B*08, most B*13, nine B*14, thirty-three B*15, the B*18, the B*27, twenty B*35, the B*37, the B*38, the B*39, the B*40, the B*41, the B*42, fourteen B*44, the B*45, four B*46, the B*48, the B*49, the B*50, eleven B*51, three B*52, the B*5314, most B*54, the B*55, eight B*56, two B*57, three B*58, most B*59, the B*67, B*7301, three B*78, the B*81 and the B*82 alleles when present on the other haplotype. In addition, the Cw*0223 allele will be amplified by primer mixes 3, 10 and 18, the Cw*0305, Cw*0325 and Cw*0327 alleles will be amplified by primer mixes 14, 26, 31 and 56, the Cw*0515 allele will be amplified by primer mix 63, the Cw*0738 allele will be amplified by primer mixes 10, 12, 13, 18, 29, 48 and 53 and the Cw*0808 allele will be amplified by primer mixes 14, 20, 26 and 31.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*07 alleles, i.e. **B*0702 to B*0799**, recognized by the HLA Nomenclature Committee in October 2009¹ will give rise to unique amplification patterns by the primers in the HLA-B*07 subtyping kit².

The HLA-B*07 subtyping kit cannot distinguish the B*070201 to 070218 alleles, the B*070501 to 070503 alleles, the B*071801 and B*071802 or the B*072201 and 072202 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2009-October-19, release 2.27.0, www.ebi.ac.uk/imgt/hla.

²The B*0750 and B*4808 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution primer set.

SPECIFICITY TABLE

HLA-B*07 SSP subtyping

Specificities and sizes of the PCR products of the 68 primer mixes used for HLA-B*07 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*07 alleles ³	Other amplified HLA Class I alleles ^{3,4}
1	395 bp	800 bp	*070201-070218, 0704-0707, 0709, 0710 ^w , 0711, 0712, 0714, 0715, 0717-0726, 0728-0731, 0733-0736, 0739-0749N, 0751-0764, 0766-0768, 0770-0782, 0784, 0786-0799	*420101-4202, 4204-4206, 4208-4210, 4212, 4213, 4506, 670101, 670102, 7301 ^w , 8102
2	285 bp	1070 bp	*070201-0706, 0708-0711, 0713, 0715-0717, 0720-0732, 0734-0739, 0741-0752, 0754-0759, 0761-0776, 0779-0783, 0785-0799	*3566, 3707, 4015, 4016, 4031, 4032, 4045, 4080, 4098, 420501, 420502, 480101, 480102, 4805-4812, 4814-4816, 4818-4820, 8101-8104N
3	235 bp	1070 bp	*070201-0704, 0707-0713, 0715, 0716, 071801, 071802, 0720-0727, 0729-0731, 0735-0739, 0741-0752, 0754-0759, 0761-0768, 0770-0773, 0775-0777, 0779, 0781-0789, 0791-0795, 0798, 0799	*9538, 1835, 3566, 3707, 4031-4033, 4052, 4059, 4098, 4606, 4808, Cw*0223
4⁵	105 bp	800 bp	*070201-0703, 070501-071802, 0720-0724, 0727-0732, 0735-0739, 0741, 0742, 0744-0747,	*3566, 3707, 4015, 4016, 4023, 4032, 4098, 4805, 4808

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			0749N-0752, 0754, 0756-0759, 0761-0765, 0767N-0779, 0781-0799	
5⁸	220 bp	1070 bp	*070201-070218, 0704-0707, 0709- 0715, 0717-0726, 0728, 0730, 0731, 0733-0736, 0739-0749N, 0751-0764, 0766- 0768, 0773-0784, 0787-0799	*2701-2711, 2713-2715, 2717, 2719-2721, 2724-2728, 2730- 2738, 2740-2758, 420101-4202, 4204-4206, 4208-4210, 4212, 4213, 5402, 5510, 670101-6702, 7301, 8101-8104N
6	215 bp	1070 bp	*0703, 0708, 0716, 0727, 0732, 0738, 0750, 0769, 0785	*1314, 1401, 1407N, 1408, 1410, 1412, 1414, 1568, 1571, 9575, 180101-1803, 1805-1815, 1817N-1824, 1826-1845, 2712, 2716, 2718, 2723, 2729, 3550, 3584, 370101-3719, 380101- 3804, 3806-3820, 39010101, 39010102L, 390103-3903, 3905- 3911, 391301-3920, 3922-3951, 3953, 3954, 400201-400602, 4008, 4009, 4011, 4013, 4018- 4020, 4024, 4026-4029, 4035, 4037, 4039, 4040, 4044, 4050, 4056, 4064, 4068, 4070, 4071, 4074, 4075, 4078, 4082, 4083, 4085, 4086, 4089-4091, 4093- 4098, 4207, 4211, 480101-4820, 5157
7^{5,10}	105 bp, 215 bp	1070 bp	*0704, 0725, 0729, 0752	*4108, 420501, 420502
8¹¹	160 bp, 235 bp	1070 bp	*070501-0706, 0732, 0734, 0759, 0769, 0778, 0780, 0790, 0797	*400101-400108, 4007, 4010, 4012, 401401-4016, 4021-4023, 4025, 4030, 4034, 4036, 4038, 4043, 4045-4049, 4054, 4055, 4061-4063, 4065-4067, 4069, 407201-4074, 4076, 4077, 4079- 4081, 4084, 4087, 4088, 4108, 420501, 420502, 4431, 480101, 480102, 480301, 480302, 4805- 4807, 4809-4812, 4814-4816, 4818-4820, 8101-8104N
9^{7,12}	240 bp, 355 bp	1070 bp	*070501-070503, 0749N	*3546, 3707

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10¹³	285 bp, 415 bp	800 bp	*0707, 0712, 0714, 071801, 071802, 0747, 0777, 0781	*9538, 1835, 400101-400108, 4007, 4010, 4012, 401401- 401403, 4021-4023, 4025, 4033, 4036, 4038, 4042, 4043, 4046- 4049, 4052, 4054, 4055, 4059- 4063, 4065-4067, 4069, 407201- 4074, 4076, 4077, 4079, 4081, 4084, 4087, 4088, 4108, 4431, 4606, 480301, 480302, 4817, 4818, Cw*0223, Cw*0738
11¹⁴	130 bp, 210 bp	1070 bp	*0708, 0710, 0732, 0738, 0739	*180701, 180702, 1829, 2701- 270508, 270510-2711, 2713- 2715, 2717, 2719-2721, 2723- 2728, 2730-2759N, 3550, 3584, 3806, 3807, 4008, 4013, 4068, 4806, 5157, 7301
12	225 bp	1070 bp	*0709, 0711, 0717	*9538, 1835, 3566, 4038, 4052, 4059, 4060, 4606, 4814, Cw*0738
13^{5,15}	85 bp, 290 bp	1070 bp	*0712, 0714, 071801, 071802, 0731, 0734, 0743	*4030, 4034, 4059, 4108, 420501, 420502, 4817, Cw*0738
14^{6,8,16}	215 bp, 395 bp	800 bp	*0713, 0726, 0734, 0743, 0748, 0780	*0813, 0825, 1405, 1413, 1555, 1814, 1822, 2707, 2711, 2724, 2732-2734, 2743, 3505, 3516, 3517, 3522, 3530, 3531, 3551, 3558, 3572, 3589, 3597, 400201-4003, 4005, 4008, 4009, 4013, 4018, 4019, 4024, 4027, 4029, 4031, 4035, 4037, 4039, 4040, 4045, 4050, 4056-4058, 4071, 4078, 4080, 4082, 4085, 4089, 4091, 4094, 4097, 4454, 480101, 480102, 4804, 4806, 4807, 4809-4816, 4818, 4820, 5164, 5181, 5314, 5504, 5818, 6702, 8101-8104N, Cw*0305, Cw*0325, Cw*0327, Cw*0808
15¹⁷	385 bp, 425 bp	1070 bp	*0711, 0747, 0754, 0757, 0775	*0806, 0817, 0847, 3920, 4506
16	230 bp	1070 bp	*0716, 0727, 0737, 0738, 0750, 0775, 0791	*1314, 1414, 1568, 1571, 9575, 180101, 180103-1802, 1805- 1815, 1817N-1824, 1826-1845, 2701, 2718, 2723, 2729, 2744, 3550, 3584, 370101-3719, 380101-380202, 3804, 3806- 3812, 3815-3820, 3905, 3907, 3908, 3911, 391301, 391302,

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				3920, 3937, 3949, 400201-400602, 4008, 4009, 4011, 4013, 4018-4020, 4024, 4026-4029, 4035, 4037, 4039, 4040, 4044, 4056, 4064, 4068, 4070, 4071, 4074, 4075, 4078, 4082, 4083, 4085, 4086, 4089-4091, 4093-4098, 4211, 480101-4820, 5157, 5710
17¹⁸	345 bp, 425 bp	1070 bp	*0711, 0727, 0746, 0757, 0775	*0806, 0817, 0847, 3817, 3920
18	265 bp	1070 bp	*0712, 0778, 0784	*3566, 4059, 4060, 4817, Cw*0223, Cw*0738
19¹⁹	205 bp, 250 bp, 295 bp	800 bp	*0720, 0735	*1514, 1591, 9531, 9561, 3545, 3571, 4410, 4414, 4417, 4431, 4443, 4445, 4451, 4454, 4462, 4477, 4482, 4509, 4617, 5123, 5215, 5707, 5807, 8201, 8202
20²⁰	160 bp, 205 bp, 275 bp	1070 bp	*0721, 0751, 0759	Cw*0808
21^{5,21}	100 bp, 165 bp	1070 bp	*072201, 072202, 0752	
22	385 bp	1070 bp	*0723	*4079
23⁵	85 bp	1070 bp	*0720, 0724	*4063
24^{5,8}	125 bp	800 bp	*0725, 0739, 0748	*1835, 2736, 3566, 400101-400108, 4007, 4010, 4012, 401401-401403, 4021, 4022N, 4025, 4030, 4031, 4033, 4034, 4036, 4038, 4042, 4043, 4045-4049, 4052, 4054, 4055, 4059-4063, 4065, 4066, 4069, 407201-4074, 4076, 4077, 4079-4081, 4084, 4087, 4088, 4108, 420501, 420502, 4431, 4606, 480101, 480102, 480301, 480302, 4806, 4807, 4809-4812, 4814, 4816-4820, 8101-8104N
25	425 bp	1070 bp	*0727	*3817
26^{5,22}	95 bp, 220 bp, 290 bp	800 bp	*0720, 0724, 0728, 0742, 0751, 0760	*0814, 0821, 0825, 1507, 1545, 1555, 1568, 9526, 2732, 3505, 3522, 3551, 3558, 3572, 3589, 3597, 4005, 4071, 4454, 4612, 5164, 5314, 5818, Cw*0305, Cw*0325, Cw*0327, Cw*0808
27²³	165 bp,	800 bp	*0729, 0741	

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	215 bp			
28 ^{5,6}	110 bp	1070 bp	*0730	
29 ^{5,6,8,24}	85 bp, 200 bp	800 bp	*0731, 0734, 0743, 0744	*4108, 420501, 420502, Cw*0738
30	190 bp	800 bp	*070501-0706, 0732, 0740, 0753, 0769, 0778, 0780, 0790, 0797	*0840, 130101-130206, 1307N- 1309, 1311, 1313-1323, 1325, 1327-1330, 2707, 2711, 2720, 2724, 2727, 2733, 2743, 3531, 3588, 3947, 3950, 400101- 400207, 4004, 40060101-4008, 4010-4016, 4019, 4021-4023, 4025, 4027, 4029, 4030, 4034- 4038, 4040, 4043, 4045-4050, 4053-4058, 4061, 4062, 4064- 4070, 407201-4088, 4090, 4091, 4093-4097, 4431, 480101, 480102, 480301-4807, 4809- 4816, 4818-4820, 5110, 5116, 5131, 5134, 5181, 5182, 5208, 5509, 5522, 5524, 8101-8104N
31 ²⁵	215 bp, 280 bp	800 bp	*0719, 0733, 0753, 0755, 0760	*1405, 1413, 1507, 1545, 1555, 1568, 9526, 1814, 2707, 2711, 2724, 2732-2734, 2743, 3505, 3522, 3531, 3551, 3558, 3572, 3589, 3597, 3709, 3819, 3903, 3914, 3924, 3929, 3937, 400201-4003, 4005, 4008, 4009, 4013, 4018, 4019, 4024, 4027, 4029, 4035, 4037, 4039, 4040, 4050, 4056-4058, 4071, 4078, 4082, 4085, 4089-4091, 4094, 4097, 4208, 4454, 4612, 4804, 4813, 4819, 5164, 5181, 5314, 5504, 5818, Cw*0305, Cw*0325, Cw*0327, Cw*0808
32 ⁹	190 bp	1070 bp	*0734	*080101-0806, 0808N-0810, 081201-0813, 0815-0820, 0822- 0824, 0826, 0827, 0829-0836, 0838, 0839, 0841-0847, 1306, 1413, 1542, 1583, 1586, 1826, 3560, 3587, 3712, 380101, 380103-3807, 3809-3820, 39010101, 39010102L, 390103- 390602, 3908-3914, 3916, 3918- 3920, 3922-3924, 3926-3928, 3930, 3931, 3934-3937, 3939, 3941, 3942, 3944-3946, 3948, 3951-3954, 4039, 4051, 4101-

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				410302, 4105-4109, 4111, 4112, 420101-4202, 4204-4208, 4210-4213, 4618, 5121, 5136, 5401, 5402, 5404, 5405N, 5407, 5408N, 5410-5413, 5417-5419, 550101-5505, 5507, 5510-5513, 5515-5521, 5525, 5526, 5528-5538, 5610, 5612, 5623, 5820, 5901-5903, 5905, 670101-6702
33	350 bp	1070 bp	*0761	
34	155 bp	1070 bp	*0762, 0790	
35⁵	105 bp	1070 bp	*0763	
36	250 bp	1070 bp	*0764	
37	210 bp	1070 bp	*0765	*1804, 4058, 560501, 5606, 7801, 780202, 7803
38	215 bp	1070 bp	*0766	
39⁷	425 bp	1070 bp	*070501-0706, 0734, 0740, 0753, 0780, 0790, 0797	*420101-4202, 4204-420502, 4207, 4208, 4210, 4212, 4213, 5404, 5411, 5504, 5508, 5517, 5520, 5528, 560501-5606, 5612, 5615, 5621, 8101-8104N
40^{6,26}	265 bp, 395 bp	1070 bp	*0756, 0772, 0783	*0826, 4010 [?] , 4021 [?] , 4058 [?] , 4112, 4903
41	400 bp	1070 bp	*0758	
42²⁷	195 bp, 225 bp	1070 bp	*0767N, 0771	
43⁸	140 bp	1070 bp	*0768	*1405, 1413, 1507, 1545, 1555, 1568, 9526, 1814, 2732, 3505, 3522, 3551, 3558, 3566, 3572, 3589, 3597, 3819, 3903, 3914, 3924, 3929, 3937, 4035, 4071, 4210, 4454, 4612, 4812, 4814, 5164, 5314, 5818
44	150 bp	1070 bp	*0710	*7301 ^w
45⁵	105 bp	1070 bp	*0727, 0750	*0804, 0817, 150301-150303, 1547, 1554, 1561, 1562, 1564, 1568, 1569, 1591, 1598, 9503, 9523, 9527, 9531, 9532, 9551, 9556, 9558, 9573, 1837, 2718, 2729, 3803, 390201, 390202, 3908, 391301, 391302, 3923, 3939, 3949, 4012, 4046, 4093, 4211, 4440, 4444, 480101-4805, 4807-4820, 5216, 5518
46	425 bp	1070 bp	*0713, 0715, 0792	*0815, 3927, 4073, 6702, 7301 ^w

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47	215 bp	800 bp	*0704, 0719, 0725	*080101-0805, 0807, 0808N, 0810, 0811, 0814, 0815, 0817- 0819N, 0821-0824, 0826-0839, 0841-0847, 3587, 3709, 410201, 410202, 4104, 4110, 4111, 420101-4202, 420501-4212
48²⁸	200 bp, 280 bp	1070 bp	*0776, 0777	*4060, Cw*0738
49	200 bp	1070 bp	*0782	
50^{5,29}	75 bp, 165 bp	1070 bp	*0774, 0787	
51³⁰	345 bp, 470 bp	1070 bp	*0793, 0797	*0839
52	290 bp	800 bp	*0795	
53⁶	235 bp	800 bp	*0714, 0717, 0728, 0796	*2736, 4042, 4060, 4817, Cw*0738
54	190 bp	1070 bp	*0798	
55	260 bp	1070 bp	*0799	
56⁸	230 bp	1070 bp	*0720, 0724, 0745, 0760	*0821, 0825, 1507, 1545, 1555, 1568, 9526, 3505, 3522, 3551, 3558, 3572, 3589, 3597, 4005, 4071, 4454, 4612, 5164, 5314, 5818, Cw*0305, Cw*0325, Cw*0327
57	215 bp	1070 bp	*0770	
58	440 bp	1070 bp	*0779	
59	190 bp	800 bp	*0789	
60	145 bp	1070 bp	*0773	*4506
61	205 bp	1070 bp	*0788	
62	415 bp	800 bp	*0716, 0727, 0737, 0738, 0750, 0775, 0791	*0803, 0823, 1414, 1568, 380101-380202, 3804-3812, 3815-3820, 3905, 3907, 3908, 3911, 391301, 391302, 3920, 3937, 3949, 400101-400108, 4007, 4009 [?] -4011 [?] , 401401 [?] - 4015 [?] , 4016, 4018 [?] , 4019 [?] , 4021 [?] , 4022N [?] , 4023, 4024 [?] - 4038 [?] , 4042 [?] , 4044 [?] -4049 [?] , 4051, 4052 [?] -4058 [?] , 4059, 4060, 4061 [?] -4065 [?] , 4067 [?] -4069 [?] , 4071 [?] , 407201-4073, 4074 [?] - 4076 [?] , 4077, 4078 [?] , 4079, 4080 [?] -4088 [?] , 4090 [?] -4093 [?] , 4095 [?] , 4096 [?] , 4098 [?] , 4101-4112, 4211, 4418, 4501-4505, 4507- 4510, 480101-4820, 490101-

63⁵	65 bp	1070 bp	*0794	4907, 500101-5002, 5004-5009
64	210 bp	1070 bp	*0769, 0785	Cw*0515 *1401, 1407N, 1408, 1410, 1412, 1414, 1833, 2712, 2716, 380101-380202, 3804, 3808-3820, 39010101, 39010102L, 390103-390110, 3903, 3905-3907, 3909, 3911, 3914, 3915, 3918-391902, 3922, 3924-3938Q, 3940N-3948, 3950, 3951, 3953, 3954, 4075
65	385 bp	1070 bp	*0754	*4506
66	435 bp	1070 bp	*0736, 0738, 0781	*0803, 380101-380104, 3805-3807, 3809-3814, 3816, 3819, 3820, 4019 [?] , 4418, 4818, 490101, 490102, 4903-4907
67	230 bp	1070 bp	*0729, 0772, 0786	*080101-0847, 1411, 3904, 400101-400108, 4007, 4010 [?] , 401401 [?] -4015 [?] , 4016, 4021 [?] , 4022N [?] , 4023, 4025 [?] , 4030 [?] -4034 [?] , 4036 [?] , 4038 [?] , 4042 [?] , 4043 [?] , 4045 [?] -4049 [?] , 4051, 4052 [?] -4055 [?] , 4058 [?] , 4059, 4060, 4061 [?] -4063 [?] , 4065 [?] , 4066, 4067 [?] , 4069 [?] , 407201-4073, 4076 [?] , 4077, 4079, 4080 [?] , 4081 [?] , 4084 [?] , 4087 [?] , 4088 [?] , 4092 [?] , 4101-4112, 4418, 4501-4510, 490101-4907, 500101-5002, 5004-5009
68	415 bp	1070 bp	*0713, 0715	*0816, 6702

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B*07 SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

²The internal positive control primer pairs amplify segments of the human growth hormone gene.

The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*07 subtyping.

In addition, wells number 4, 10, 14, 19, 24, 26, 27, 29, 30, 31, 47, 52, 53, 59 and 62 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

³For several HLA-B alleles 1st exon nucleotide sequences are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in the 1st exon are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B*07 alleles will be amplified by primer mixes 1 to 19, 22 to 26, 29 to 32, 37, 39, 40, 43 to 48, 51, 53, 56, 60, 62 and 64 to 68. In addition, the Cw*0223 allele will be amplified by primer mixes 3, 10 and 18, the Cw*0305, Cw*0325 and Cw*0327 alleles will be amplified by primer mixes 14, 26, 31 and 56, the Cw*0515 allele will be amplified by primer mix 63, the Cw*0738 allele will be amplified by primer mixes 10, 12, 13, 18, 29, 48 and 53 and the Cw*0808 allele will be amplified by primer mixes 14, 20, 26 and 31. The B*0750 and B*4808 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution primer set.

⁵Specific PCR fragments shorter than 125 base pairs are less intense and not as sharp as longer specific bands.

⁶Primer mixes 14, 28, 29, 40 and 53 may have tendencies of non-specific amplification, most pronounced in primer mixes 29 and 53.

⁷Primer mixes 9 and 39 may yield less specific PCR product than the other HLA-B*07 primer mixes.

⁸Primer mixes 5, 14, 24, 29, 43 and 56 have tendencies of giving rise to primer dimer artefacts.

⁹Primer mix 32 may give rise to a faint band in the B*1401 to 1414, B*370101-37010107, B*3703N-3706, 3708, 3710, 3711, 3713-3721, B*3917, Cw*0103, Cw*0124, Cw*04010101-04010105, Cw*040107-040102, Cw*0403 to 0407, Cw*0409N to 0420, Cw*0424-0431, Cw*0433, Cw*0435-0448, Cw*0501, Cw*0503, Cw*0505-0521, Cw*0523-0526, Cw*0528-0530, Cw*0609, Cw*080101-0805, Cw*0807, Cw*0808, Cw*0810, Cw*0812-0829 and Cw*1801-1802.

¹⁰Primer mix 7: Specific PCR fragment of 105 bp in the B*0704, 0725 and 0752 and the B*4108, 420501 and 420502 alleles. Specific PCR fragment of 215 bp in the B*0729 allele.

¹¹Primer mix 8: Specific PCR fragment of 160 bp in the B*0759 allele. Specific PCR fragment of 235 bp in the B*070501-0706, 0732, 0734, 0769, 0778, 0780, 0790 and 0797 and the B*400101-400108, 4007, 4010, 4012, 401401-4016, 4021-4023, 4025, 4030, 4034, 4036, 4038, 4043, 4045-4049, 4054, 4055, 4061-4063, 4065-4067, 4069, 407201-4074, 4076, 4077, 4079-4081, 4084, 4087, 4088, 4108, 420501, 420502, 4431, 480101, 480102, 480301, 480302, 4805-4807, 4809-4812, 4814-4816, 4818-4820 and 8101-8104N alleles.

¹²Primer mix 9: Specific PCR fragment of 240 bp in B*0749N allele. Specific PCR fragment of 355 bp in the B*070501-070503 and the B*3546 and 3707 alleles.

¹³Primer mix 10: Specific PCR fragment of 285 bp in the B*0707, 0712, 0714, 071801, 071802 and 0777 and the B*9538, 1835, 400101-400108, 4007, 4010, 4012, 401401-401403, 4021-4023, 4025, 4033, 4036, 4038, 4042, 4043, 4046-4049, 4052, 4054, 4055, 4059-4063, 4065-4067, 4069, 407201-4074, 4076, 4077, 4079, 4081, 4084, 4087, 4088, 4108, 4431, 4606, 480301, 480302 and 4817 and the Cw*0223 and Cw*0738 alleles. Specific PCR fragment of 415 bp in B*0747 and 0781 and the B*4818 alleles.

¹⁴Primer mix 11: Specific PCR fragment of 130 bp in B*0739 allele. Specific PCR fragment of 210 bp in the B*0708, 0710, 0732, and 0738 and the B*180701, 180702, 1829, 2701-270508, 270510-2711, 2713-2715, 2717, 2719-2721, 2723-2728, 2730-2759N, 3550, 3584, 3806, 3807, 4008, 4013, 4068, 4806, 5157 and 7301 alleles.

¹⁵Primer mix 13: Specific PCR fragment of 85 bp in the B*0731, 0734 and 0743 and the B*4108, 420501 and 420502 and the Cw*0738 alleles. Specific PCR fragment of 290 bp in the B*0712, 0714, 071801 and 071802 and the B*4030, 4034, 4059 and 4817 alleles.

¹⁶Primer mix 14: Specific PCR fragment of 215 bp in the B*0726, 0734, 0743, 0748 and 0780 and the B*0813, 0825, 1405, 1413, 1555, 1814, 1822, 2707, 2711, 2724, 2732-2734, 2743, 3505, 3516, 3517, 3522, 3530, 3531, 3551, 3558, 3572, 3589, 3597, 400201-4003, 4005, 4008, 4009,

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4013, 4018, 4019, 4024, 4027, 4029, 4031, 4035, 4037, 4039, 4040, 4045, 4050, 4056-4058, 4071, 4078, 4080, 4082, 4085, 4089, 4091, 4094, 4097, 4454, 480101, 480102, 4804, 4806, 4807, 4809-4816, 4818, 4820, 5164, 5181, 5314, 5504, 5818 and 8101-8104N and the Cw*0305, Cw*0325, Cw*0327 and Cw*0808 alleles. Specific PCR fragment of 395 bp in the B*0713 and the B*6702 alleles.

¹⁷Primer mix 15: Specific PCR fragment of 385 bp in the B*0754 and the B*4506 alleles. Specific PCR fragment of 425 bp in the B*0711, 0747, 0757 and 0775 and the B*0806, 0817, 0847 and 3920 alleles.

¹⁸Primer mix 17: Specific PCR fragment of 345 bp in the B*0746 allele. Specific PCR fragment of 425 bp in the the B*0711, 0727, 0757 and 0775 and the B*0806, 0817, 0847, 3817 and 3920 alleles.

¹⁹Primer mix 19: Specific PCR fragment of 205 bp in the B*1514, 1591, 9531, 9561, 3545, 3571, 4410, 4414, 4417, 4431, 4443, 4451, 4462, 4477, 4482, 4509, 4617, 5123, 5215, 5707, 5807, 8201 and 8202 alleles. Specific PCR fragment of 205 and 250 bp in the B*0720 and in the B*4454 alleles. Specific PCR fragment of 250 and 295 bp in the B*0735 allele.

²⁰Primer mix 20: Specific PCR fragment of 160 bp in the B*0759 allele. Specific PCR fragment of 205 bp in the B*0751 and the Cw*0808 alleles. Specific PCR fragment of 275 bp in the B*0721 allele.

²¹Primer mix 21: Specific PCR fragment of 100 bp in the B*0752 allele. Specific PCR fragment of 165 bp in the B*072201 and 072202 alleles.

²²Primer mix 26: Specific PCR fragment of 95 bp in the B*0728 and the B*0814 and 2732 alleles. Specific PCR fragment of 220 bp in the B*0720, 0724, 0751, 0760 and the B*0821, 0825, 1507, 1545, 1555, 1568, 9526, 3505, 3522, 3551, 3558, 3572, 3589, 3597, 4005, 4071, *4612, 5164, 5314, 5818, Cw*0305, Cw*0325, Cw*0327 and Cw*0808 alleles. Specific PCR fragment of 290 bp in the B*0742 allele. Specific PCR fragments of 95 and 220 bp in the B*4454 allele

²³Primer mix 27: Specific PCR fragment of 165 bp in the B*0741 allele . Specific PCR fragment of 215 bp in the B*0729 allele.

²⁴Primer mix 29: Specific PCR fragment of 85 bp in the B*0731, 0734 and 0743 and the B*4108, 420501, 420502 and Cw*0738alleles. Specific PCR fragment of 200 bp in the B*0744 allele.

²⁵Primer mix 31: Specific PCR fragment of 215 bp in the B*0755 and the B*4819 alleles. Specific PCR fragment of 280 bp in the B*0719, B0733, B0753, B0760 and the B*1405, 1413, 1555, 1814, 2707, 2711, 2724, 2732-2734, 2743, 3505, 3522, 3531, 3551, 3558, 3572, 3589, 3597, 3709, 3819, 3903, 3914, 3924, 3929, 3937, 400201-4003, 4005, 4008, 4009, 4013, 4018, 4019, 4024, 4027, 4029, 4035, 4037, 4039, 4040, 4050, 4056-4058, 4071, 4078, 4078, 4082, 4085, 4089-4091, 4094, 4097, 4208, 4454, 4804, 4813, 5164, 5181, 5314, 5504, 5818, Cw*0305, Cw*0325, Cw*0327 and Cw*0808 alleles. Specific PCR fragments of 215 and 280 bp in the B*4612, 1507, 1545, 1568 and B*9526 alleles.

²⁶Primer mix 40: Specific PCR fragment of 265 bp in the B*0756 and 0772 and the B*0826, 4010[?], 4021[?], 4058[?], 4112 and 4903 alleles. Specific PCR fragment of 395 bp in the B*0783 alleles.

²⁷Primer mix 42: Specific PCR fragment of 195 bp in the B*0767N allele. Specific PCR fragment of 225 bp in the B*0771 allele.

²⁸Primer mix 48: Specific PCR fragment of 200 bp in the B*0776 allele. Specific PCR fragment of 280 bp in the B*0777 and the B*4060 and Cw*0738 alleles.

²⁹Primer mix 50: Specific PCR fragment of 75 bp in the B*0774 allele. Specific PCR fragment of 165 bp in the B*0787 allele.

³⁰Primer mix 51: Specific PCR fragment of 345 bp in the B*0797 allele. Specific PCR fragment of 470 bp in the B*0793 and the B*0839 alleles.

'w', might be weakly amplified.

'?', nucleotide sequence information not available for the primer matching sequence.

INTERPRETATION TABLE																																																																			
HLA-B*07 SSP subtyping																																																																			
Amplification patterns of the B*0702 to B*0799 alleles																																																																			
Well ³																																																																			
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68																																				
210	215	425	395	265	400	195	140	150	105	425	215	200	200	75	345	290	235	190	280	230	215	440	190	145	205	415	65	210	385	435	230	415																																			
																																	Length of spec.																																		
																																	PCR product(s)																																		
1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	800	800	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070																																		
																																	Length of int. pos. control ¹																																		
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68																																				
																																	Well No.																																		
																																	HLA-B allele ²																																		
																																	*070201-070218																																		
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37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	Well No.	
					43																												*0768
																					57					64						*0769	
																																	*0770
																																	*0771
			40		42																			60						67		*0772	
													50													62						*0773	
																																*0774	
																																*0775	
											48																					*0776	
										48																						*0777	
																						58										*0778	
		39																												66		*0779	
													49																			*0780	
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			40																													*0782	
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																									61							*0788	
		39																				59										*0789	
																																*0790	
																											62					*0791	
									46																							*0792	
														51																		*0793	
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		39											51																			*0797	
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											47																			67		*080101-0802, 0805, 0808N, 0810, 0818, 0819N, 0822, 0824, 0827, 0829-0836, 0838, 0841-0846	
											47															62		66	67			*0803	
								45		47																						*0804	
										47																						*0806	
										47																						*0807, 0811, 0828, 0837	
																																*0809, 081201-081203, 0820, 3904	
																																*0813	
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																														67	68	*0816	
								45		47																						*0817	
										47																						*0821	
										47																62						*0823, 410201, 410202, 4111	
																																*0825	
			40							47																						*0826	
										47																						*0839	
																																*0840	
										47																						*0847	
																																*130101-130206, 1307N-1309, 1311, 1313, 1315-1323, 1325, 1327-1330, 3588, 5110, 5116, 5131, 5134, 5182, 5208, 5509, 5522, 5524	
																																*1306, 1542, 1583, 1586, 3560, 3912, 3952, 4618, 5121, 5136, 5401, 5405N, 5407, 5408N, 5410, 5412, 5413, 5417-5419, 550101-5503, 5505, 5507, 5511-5513, 5515, 5516, 5519, 5521, 5525, 5526, 5529-5538, 5610, 5623, 5820, 5901-5903, 5905	
																																*1314, 4004, 40060101-400602, 4070	
																												64				*1401, 1407N, 1408, 1410, 1412, 2712, 2716, 3915, 3925N, 3932, 3933, 3938Q, 3940N, 3943	
																																*1405	
																																*1411	
																																*1413	
																																*1414, 3808, 3907	
																																*150301-150303, 1547, 1554, 1561, 1562, 1564, 1569, 1598, 9503, 9523, 9527, 9532, 9551, 9556, 9558, 9573, 4440, 4444, 5216	
																																*1507, 1545, 9526, 4612	
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																																*1555, 3505, 3522, 3551, 3558, 3572, 3589, 3597, 5164, 5314, 5818	
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37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	Well No.					
								45																								*1571, 9575, 180101, 180103-1802, 1805, 1806, 1808-1813, 1815, 1817N-1821, 1823N, 1824, 1827, 1828, 1830-1832, 1834, 1836, 1838-1845, 370101-3706, 3708, 3710, 3711, 3713-3719, 4020 *1591, 9531 *9538					
																																	*180102, 1803, 3917				
37						43																										*1804, 7801, 780202, 7803 *180701, 180702, 1829, 2723, 3550, 3584, 5157 *1814 *1822 *1826, 3712 *1833 *1835 *1837, 2718, 2729					
								45																64									*2701, 2744 *2702-270508, 270510-2706, 2708-2710, 2713- 2715, 2717, 2719, 2721, 2725, 2726, 2728, 2730, 2731, 2735, 2737, 2738, 2740-2742, 2745-2758 *270509 *2707, 2711, 2724, 2733, 2743 *2720, 2727 *2732 *2734 *2736 *2739, 2759N *3516, 3517, 3530 *3531, 5181 *3546 *3566 *3587 *3707 *3709				
						43									53																		*380101, 380103, 380104, 3809-3812, 3816, 3820 *380102 *380201, 380202, 3804, 3815, 3818, 3905, 3911 *3803, 390201, 390202, 3923, 3939				
																									62	64	66								*3805 *3806, 3807 *3813, 3814 *3817 *3819		
																									62	64	66								*39010101, 39010102L, 390103-390110, 390601, 390602, 3909, 3918-391902, 3922, 3926, 3928, 3930, 3931, 3934-3936, 3941, 3942, 3944-3946, 3948, 3951, 3953, 3954 *3903, 3914, 3924 *3908, 391301, 391302 *3910, 3916 *3920 *3927 *3929 *3937 *3947, 3950 *3949, 4802		
							43																													*400101-400108, 4007, 407201, 407202, 4077	
																																				*400201-400207, 4040, 4094, 4097 *4003, 4089 *4005 *4008, 4013	
																																					*4009, 4018, 4024 *4010, 4021 *4011, 4064, 4083, 4086, 4095, 4096 *4012
								45																													*401401-401403, 4022N, 4025, 4036, 4047- 4049, 4054, 4055, 4061, 4062, 4065, 4069, 4076, 4081, 4084, 4087, 4088 *4015 *4016 *4019
																									62												*4023 *4026, 4028, 4044 *4027, 4029, 4037, 4056, 4078, 4082, 4085, 4091 *4030, 4034



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¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*07 subtyping.

In addition, wells number 4, 10, 14, 19, 24, 26, 27, 29, 30, 31, 47, 52, 53, 59 and 62 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

²The sequence of B*0701 has been shown to be in error.

The B*0750 and B*4808 alleles will give rise to identical amplification pattern with the HLA-B*07 subtyping kit. These two alleles can be distinguished e.g with the HLA-B low resolution kit.

³Primer mix 7: Specific PCR fragment of 105 bp in the B*0704, 0725 and 0752 and the B*4108, 420501 and 420502 alleles. Specific PCR fragment of 215 bp in the B*0729 allele.

Primer mix 8: Specific PCR fragment of 160 bp in the B*0759 allele. Specific PCR fragment of 235 bp in the B*070501-0706, 0732, 0734, 0769, 0778, 0780, 0790 and 0797 and the B*400101-400108, 4007, 4010, 4012, 401401-4016, 4021-4023, 4025, 4030, 4034, 4036, 4038, 4043, 4045-4049, 4054, 4055, 4061-4063, 4065-4067, 4069, 407201-4074, 4076, 4077, 4079-4081, 4084, 4087, 4088, 4108, 420501, 420502, 4431, 480101, 480102, 480301, 480302, 4805-4807, 4809-4812, 4814-4816, 4818-4820 and 8101-8104N alleles.

Primer mix 9: Specific PCR fragment of 240 bp in B*0749N allele. Specific PCR fragment of 355 bp in the B*070501-070503 and the B*3546 and 3707 alleles.

Primer mix 10: Specific PCR fragment of 285 bp in the B*0707, 0712, 0714, 071801, 071802 and 0777 and the B*9538, 1835, 400101-400108, 4007, 4010, 4012, 401401-401403, 4021-4023, 4025, 4033, 4036, 4038, 4042, 4043, 4046-4049, 4052, 4054, 4055, 4059-4063, 4065-4067, 4069, 407201-4074, 4076, 4077, 4079, 4081, 4084, 4087, 4088, 4108, 4431, 4606, 480301, 480302 and 4817 and the Cw*0223 and Cw*0738 alleles. Specific PCR fragment of 415 bp in B*0747 and 0781 and the B*4818 alleles.

Primer mix 11: Specific PCR fragment of 130 bp in B*0739 allele. Specific PCR fragment of 210 bp in the B*0708, 0710, 0732, and 0738 and the B*180701, 180702, 1829, 2701-270508, 270510-2711, 2713-2715, 2717, 2719-2721, 2723-2728, 2730-2759N, 3550, 3584, 3806, 3807, 4008, 4013, 4068, 4806, 5157 and 7301 alleles.

Primer mix 13: Specific PCR fragment of 85 bp in the B*0731, 0734 and 0743 and the B*4108, 420501 and 420502 and the Cw*0738 alleles. Specific PCR fragment of 290 bp in the B*0712, 0714, 071801 and 071802 and the B*4030, 4034, 4059 and 4817 alleles.

Primer mix 14: Specific PCR fragment of 215 bp in the B*0726, 0734, 0743, 0748 and 0780 and the B*0813, 0825, 1405, 1413, 1555, 1814, 1822, 2707, 2711, 2724, 2732-2734, 2743, 3505, 3516, 3517, 3522, 3530, 3531, 3551, 3558, 3572, 3589, 3597, 400201-4003, 4005, 4008, 4009, 4013, 4018, 4019, 4024, 4027, 4029, 4031, 4035, 4037, 4039, 4040, 4045, 4050, 4056-4058, 4071, 4078, 4080, 4082, 4085, 4089, 4091, 4094, 4097, 4454, 480101, 480102, 4804, 4806, 4807, 4809-4816, 4818, 4820, 5164, 5181, 5314, 5504, 5818 and 8101-8104N and the Cw*0305, Cw*0325, Cw*0327 and Cw*0808 alleles. Specific PCR fragment of 395 bp in the B*0713 and the B*6702 alleles.

Primer mix 15: Specific PCR fragment of 385 bp in the B*0754 and the B*4506 alleles. Specific PCR fragment of 425 bp in the B*0711, 0747, 0757 and 0775 and the B*0806, 0817, 0847 and 3920 alleles.

Primer mix 17: Specific PCR fragment of 345 bp in the B*0746 allele. Specific PCR fragment of 425 bp in the the B*0711, 0727, 0757 and 0775 and the B*0806, 0817, 0847, 3817 and 3920 alleles.

Primer mix 19: Specific PCR fragment of 205 bp in the B*1514, 1591, 9531, 9561, 3545, 3571, 4410, 4414, 4417, 4431, 4443, 4451, 4462, 4477, 4482, 4509, 4617, 5123, 5215, 5707, 5807, 8201 and 8202 alleles. Specific PCR fragment of 205 and 250 bp in the B*0720 and in the B*4454 alleles. Specific PCR fragment of 250 and 295 bp in the B*0735 allele.

Primer mix 20: Specific PCR fragment of 160 bp in the B*0759 allele. Specific PCR fragment of 205 bp in the B*0751 and the Cw*0808 alleles. Specific PCR fragment of 275 bp in the B*0721 allele.

Primer mix 21: Specific PCR fragment of 100 bp in the B*0752 allele. Specific PCR fragment of 165 bp in the B*072201 and 072202 alleles.

Lot No.: **68G**

Lot-specific Information

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Primer mix 26: Specific PCR fragment of 95 bp in the B*0728 and the B*0814 and 2732 alleles. Specific PCR fragment of 220 bp in the B*0720, 0724, 0751, 0760 and the B*0821, 0825, 1507, 1545, 1555, 1568, 9526, 3505, 3522, 3551, 3558, 3572, 3589, 3597, 4005, 4071, *4612, 5164, 5314, 5818, Cw*0305, Cw*0325, Cw*0327 and Cw*0808 alleles. Specific PCR fragment of 290 bp in the B*0742 allele. Specific PCR fragments of 95 and 220 bp in the B*4454 allele

Primer mix 27: Specific PCR fragment of 165 bp in the B*0741 allele . Specific PCR fragment of 215 bp in the B*0729 allele.

Primer mix 29: Specific PCR fragment of 85 bp in the B*0731, 0734 and 0743 and the B*4108, 420501, 420502 and Cw*0738alleles. Specific PCR fragment of 200 bp in the B*0744 allele.

Primer mix 31: Specific PCR fragment of 215 bp in the B*0755 and the B*4819 alleles. Specific PCR fragment of 280 bp in the B*0719, B0733, B0753, B0760 and the B*1405, 1413, 1555, 1814, 2707, 2711, 2724, 2732-2734, 2743, 3505, 3522, 3531, 3551, 3558, 3572, 3589, 3597, 3709, 3819, 3903, 3914, 3924, 3929, 3937, 400201-4003, 4005, 4008, 4009, 4013, 4018, 4019, 4024, 4027, 4029, 4035, 4037, 4039, 4040, 4050, 4056-4058, 4071, 4078, 4078, 4082, 4085, 4089-4091, 4094, 4097, 4208, 4454, 4804, 4813, 5164, 5181, 5314, 5504, 5818, Cw*0305, Cw*0325, Cw*0327 and Cw*0808 alleles. Specific PCR fragments of 215 and 280 bp in the B*4612, 1507, 1545, 1568 and B*9526 alleles.

Primer mix 40: Specific PCR fragment of 265 bp in the B*0756 and 0772 and the B*0826, 4010[?], 4021[?], 4058[?], 4112 and 4903 alleles. Specific PCR fragment of 395 bp in the B*0783 alleles.

Primer mix 42: Specific PCR fragment of 195 bp in the B*0767N allele. Specific PCR fragment of 225 bp in the B*0771 allele.

Primer mix 48: Specific PCR fragment of 200 bp in the B*0776 allele. Specific PCR fragment of 280 bp in the B*0777 and the B*4060 and Cw*0738 alleles.

Primer mix 50: Specific PCR fragment of 75 bp in the B*0774 allele. Specific PCR fragment of 165 bp in the B*0787 allele.

Primer mix 51: Specific PCR fragment of 345 bp in the B*0797 allele. Specific PCR fragment of 470 bp in the B*0793 and the B*0839 alleles.

'w', might be weakly amplified.

'?', nucleotide sequence information not available for the primer matching sequence.

Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
5'-primer(s) ¹	44	363	412	540	103	103	97	412	693	44	103	419
	5' -ggC 3'	5' -AgC 3'	5' -ATg 3'	5' -Cgg 3'	5' -CCT 3'	5' -CCT 3'	5' -TCg 3'	5' -ATA 3'	5' -ggT 3'	5' -ggC 3'	5' -CCT 3'	5' -gTC 3'
					103	103	540	636		363	103	
					5' -CCT 3'	5' -CCT 3'	5' -gAC 3'	5' -CAC 3'		5' -Agg 3'	5' -CCT 3'	
						545				363		
						5' -AgT 3'				5' -Agg 3'		
3'-primer(s) ²	272	605	605	605	282	277	272	605	893	287	191	605
	5' -TgT 3'	5' -gCT 3'	5' -gCT 3'	5' -gCT 3'	5' -gCC 3'	5' -ggT 3'	5' -TgT 3'	5' -gCT 3'	5' -CCT 3'	5' -TCC 3'	5' -CgA 3'	5' -gCT 3'
							605	754	916	302	272	
							5' -gCT 3'	5' -AgA 3'	5' -gAT 3'	5' -ggC 3'	5' -TgC 3'	
									605	272		
									5' -gCT 3'	5' -TgA 3'		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
5'-primer(s) ¹	355	44	44	103	44	379	363	25	481	322	560	103
	5' -TCA 3'	5' -ggC 3'	5' -ggC 3'	5' -CCT 3'	5' -ggC 3'	5' -ACC 3'	5' -AgC 3'	5' -CCg 3'	5' -CgA 3'	5' -gCC 3'	5' -CCT 3'	5' -CCT 3'
	560	363		103			409	363	545			103
	5' -CAC 3'	5' -AgC 3'		5' -CCT 3'			5' -ggC 3'	5' -AgC 3'	5' -AgT 3'			5' -CCT 3'
		363						636				527
		5' -AgC 3'						5' -CAC 3'				5' -TgT 3'
3'-primer(s) ²	605	270	259	292	218	605	572	131	605	419	605	191
	5' -gCT 3'	5' -TAC 3'	5' -CTC 3'	5' -gTA 3'	5' -gCA 3'	5' -gCT 3'	5' -gCg 3'	5' -ggA 3'	5' -gCT 3'	5' -CgT 3'	5' -gCT 3'	5' -CgA 3'
		539	287	292	301		616	527				605
		5' -TCA 3'	5' -TCC 3'	5' -gTA 3'	5' -gTC 3'		5' -AgA 3'	5' -CCg 3'				5' -gCT 3'
			302	292	302			754				
			5' -ggT 3'	5' -gTA 3'	5' -ggT 3'			5' -AgA 3'				
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
5'-primer(s) ¹	44	363	97	215	560	412	363	412	756	483	207	363
	5' -ggC 3'	5' -AgC 3'	5' -TCg 3'	5' -gCC 3'	5' -CAC 3'	5' -ATA 3'	5' -AgC 3'	5' -ATA 3'	5' -ACT 3'	5' -gAA 3'	5' -gAC 3'	5' -AgC 3'
			148		852					503		
			5' -TgC 3'		5' -CAg 3'				5' -CCg 3'			
3'-primer(s) ²	301	418	272	282	605	559	538	559	973	605	272	570
	5' -gTC 3'	5' -gTC 3'	5' -TgT 3'	5' -gCC 3'	5' -gCT 3'	5' -CTC 3'	5' -CCA 3'	5' -CgT 3'	5' -TCT 3'	5' -gCT 3'	5' -TgT 3'	5' -CCg 3'
		527			916		603					
		5' -CCg 3'			5' -gAC 3'		5' -gTC 3'					
		559										
		5' -CAg 3'										
		613										
		5' -gCT 3'										
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
5'-primer(s) ¹	141	363	272	44	650	89	363	165	206	44	363	113
	5' -ATT 3'	5' -AgC 3'	5' -CTA 3'	5' -ggC 3'	5' -CCT 3'	5' -gAC 3'	5' -AgC 3'	5' -ACC 3'	5' -AgA 3'	5' -ggC 3'	5' -AgC 3'	5' -CCA 3'
						118						368
						5' -C.g 3'						5' -gTC 3'
3'-primer(s) ²	311	539	412	142	916	272	463	272	272	299	538	272
	5' -ggT 3'	5' -TCT 3'	5' -gTT 3'	5' -TgC 3'	5' -gAC 3'	5' -TgT 3'	5' -gCT 3'	5' -TgC 3'	5' -Tgg 3'	5' -TCA 3'	5' -gTC 3'	5' -TgT 3'
				272								605
			5' -TgA 3'									5' -gCT 3'
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
5'-primer(s) ¹	341	363	44	355	409	363	386	363	98	44	363	167
	5' -ggg 3'	5' -AgC 3'	5' -ggC 3'	5' -CCT 3'	5' -ggT 3'	5' -AgC 3'	5' -gCA 3'	5' -AgC 3'	5' -CTg 3'	5' -ggC 3'	5' -AgC 3'	5' -gCT 3'
3'-primer(s) ²	2 nd	398	221	605	605	513	605	544	272	317	514	272
	5' -TCg 3'	5' -ggC 3'	5' -ACC 3'	5' -gCT 3'	5' -gCT 3'	5' -TCA 3'	5' -gCT 3'	5' -ggT 3'	5' -TgT 3'	5' -ggC 3'	5' -CTT 3'	5' -TgT 3'
		488	343					559				
		5' -CCA 3'	5' -T 3'					5' -CAg 3'				
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68
5'-primer(s) ¹	44	44	256	103	44	44	44	44
	5' -ggC 3'	5' -ggC 3'	5' -ACT 3'	5' -CCT 3'	5' -ggC 3'	5' -ggC 3'	5' -ggC 3'	5' -ggC 3'
				103				
				5' -CCT 3'				
3'-primer(s) ²	82	292	282	272	259	309	106	289
	5' -ggC 3'	5' -gTA 3'	5' -gCC 3'	5' -TgC 3'	5' -CTC 3'	5' -ATC 3'	5' -CAT 3'	5' -AgC 3'
		292						
		5' -gTA 3'						
		292						
		5' -gTA 3'						
Well No.	61	62	63	64	65	66	67	68

¹The nucleotide position, in the 1st, 2nd, 3rd or 4th exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

²The nucleotide position, in 2nd, 3rd or 4th exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Prod. No.:				200967501	200967502	200967503	200967504	200967505	200967506	200967507	200967508	200967509	200967510	200967511	200967512	200967513	200967514	200967515	200967516
IHWC cell line		B*																	
1	9001	SA	*0702	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*5201	*7301	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*52011		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*1510	*5301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*3701		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+
6	9353	SM	*3901	*5101	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
7	9020	QBL	*1801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+
8	9025	DEU	*3501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*3801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+
10	9107	LKT3	*5401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*5701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*2705		-	-	-	-	+	-	-	-	-	+	-	-	-	-	-
14	9071	OLGA	*1501	*1520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*4001		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
16	9037	SWEIG007	*4002		-	-	-	-	-	+	-	-	-	-	-	+	-	-	+
17	9282	CTM3953540	*0801	*5501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*1401	*5601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*1801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+
20	9059	SLE005	*4001		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
21	9064	AMALA	*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*3503		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*4002	*5602	-	-	-	-	-	+	-	-	-	-	-	+	-	-	+
24	9035	JBUSH	*3801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+
25	9049	IBW9	*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*5801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*0705	*5101	+	+	-	+	+	-	-	+	-	-	-	-	-	-	-
28	9320	BEL5GB	*4402	*4403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*4201		+	-	-	-	+	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*1801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+
32	9297	HAG	*4102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*4001		-	-	-	-	-	-	-	+	-	+	-	-	+	-	-
34	9104	DHIF	*3801		-	-	-	-	-	+	-	-	-	-	-	-	-	-	+
35	9302	SSTO	*4402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*1501	*3501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*0702		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*0801	*2705	-	-	-	-	+	-	-	-	-	+	-	-	-	-	-
40	9134	WHONP199	*1302	*4601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*3801		-	-	-	-	-	-	+	-	-	-	-	-	-	-	+
45	9239	SHJO	*4201	*5001	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*0702		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*5101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*3501	*4403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	200967517	200967518	200967519	200967520	200967521	200967522	200967523	200967524	200967525	200967526	200967527	200967528	200967529	200967530	200967531	200967532
	IHWC cell line		B*																	
1	9001 SA		*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*5201	*7301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*52011		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*1510	*5301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*3701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM		*3901	*5101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
7	9020 QBL		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU		*3501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
10	9107 LKT3		*5401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
11	9051 PITOUT		*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*5701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM		*2705		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*1501	*1520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*4001		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
16	9037 SWEIG007		*4002		-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
17	9282 CTM3953540		*0801	*5501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
18	9257 32367		*1401	*5601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*4001		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
21	9064 AMALA		*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*3503		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*4002	*5602	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
24	9035 JBUSH		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
25	9049 IBW9		*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*5801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*0705	*5101	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
28	9320 BEL5GB		*4402	*4403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU		*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*4201		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019 DUCAF		*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*4102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
33	9098 MT14B		*4001		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
34	9104 DHIF		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
35	9302 SSTO		*4402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17		*1501	*3501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL		*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*0801	*2705	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
40	9134 WHONP199		*1302	*4601	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
41	9055 H0301		*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089		*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM		*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
45	9239 SHJO		*4201	*5001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU		*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*5101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND		*3501	*4403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																					
HLA-B*07 SSP subtyping kit																					
				Prod. No.:	Well																
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
	IHWC cell line	B*			200967533	200967534	200967535	200967536	200967537	200967538	200967539	200967540	200967541	200967542	200967543	200967544	200967545	200967546	200967547	200967548	
1	9001 SA	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*5201	*7301		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
3	9011 E4181324	*52011			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*1510	*5301		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*3701			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*3901	*5101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*3501			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*5401			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*4403			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*5701			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*2705			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*1501	*1520		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*4001			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*4002			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*0801	*5501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
18	9257 32367	*1401	*5601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*4001			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*1501			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*3503			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*4002	*5602		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*1402			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*5801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*0705	*5101		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*4402	*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*4403			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*4201			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-
31	9019 DUCAF	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*4102			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
33	9098 MT14B	*4001			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*4402			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*1501	*3501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*1501			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*0801	*2705		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
40	9134 WHONP199	*1302	*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*1402			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*4601			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*4601			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*4201	*5001		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-
46	9013 SCHU	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*5101			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*3501	*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																			
HLA-B*07 SSP subtyping kit																			
			Prod. No.:	Well															
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
	IHWC cell line	B*		200967549	200967550	200967551	200967552	200967553	200967554	200967555	200967556	200967557	200967558	200967559	200967560	200967561	200967562	200967563	200967564
1	9001 SA	*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*5201	*7301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*52011		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*1510	*5301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*3701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*3901	*5101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
7	9020 QBL	*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*3501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+
10	9107 LKT3	*5401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*5701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*2705		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*1501	*1520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*4001		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
16	9037 SWEIG007	*4002		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*0801	*5501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*1401	*5601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
19	9038 BM16	*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*4001		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
21	9064 AMALA	*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*3503		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*4002	*5602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+
25	9049 IBW9	*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*5801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*0705	*5101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*4402	*4403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*4201		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*4102		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
33	9098 MT14B	*4001		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
34	9104 DHIF	*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+
35	9302 SSTO	*4402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*1501	*3501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*1501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*0801	*2705	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*1302	*4601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*1402		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*4601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+
45	9239 SHJO	*4201	*5001	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
46	9013 SCHU	*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*5101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*3501	*4403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET							
HLA-B*07 SSP subtyping kit							
				Well			
				65	66	67	68
				Prod. No.:			
				200967565	200967566	200967567	200967568
	IHWC cell line	B*					
1	9001 SA	*0702		-	-	-	-
2	9280 LK707	*5201	*7301	-	-	-	-
3	9011 E4181324	*52011		-	-	-	-
4	9275 GU373	*1510	*5301	-	-	-	-
5	9009 KAS011	*3701		-	-	-	-
6	9353 SM	*3901	*5101	-	-	-	-
7	9020 QBL	*1801		-	-	-	-
8	9025 DEU	*3501		-	-	-	-
9	9026 YAR	*3801		-	+	-	-
10	9107 LKT3	*5401		-	-	-	-
11	9051 PITOUT	*4403		-	-	-	-
12	9052 DBB	*5701		-	-	-	-
13	9004 JESTHOM	*2705		-	-	-	-
14	9071 OLGA	*1501	*1520	-	-	-	-
15	9075 DKB	*4001		-	-	+	-
16	9037 SWEIG007	*4002		-	-	-	-
17	9282 CTM3953540	*0801	*5501	-	-	+	-
18	9257 32367	*1401	*5601	-	-	-	-
19	9038 BM16	*1801		-	-	-	-
20	9059 SLE005	*4001		-	-	+	-
21	9064 AMALA	*1501		-	-	-	-
22	9056 KOSE	*3503		-	-	-	-
23	9124 IHL	*4002	*5602	-	-	-	-
24	9035 JBUSH	*3801		-	+	-	-
25	9049 IBW9	*1402		-	-	-	-
26	9285 WT49	*5801		-	-	-	-
27	9191 CH1007	*0705	*5101	-	-	-	-
28	9320 BEL5GB	*4402	*4403	-	-	-	-
29	9050 MOU	*4403		-	-	-	-
30	9021 RSH	*4201		-	-	-	-
31	9019 DUCAF	*1801		-	-	-	-
32	9297 HAG	*4102		-	-	+	-
33	9098 MT14B	*4001		-	-	+	-
34	9104 DHIF	*3801		-	+	-	-
35	9302 SSTO	*4402		-	-	-	-
36	9024 KT17	*1501	*3501	-	-	-	-
37	9065 HHKB	*0702		-	-	-	-
38	9099 LZL	*1501		-	-	-	-
39	9315 CML	*0801	*2705	-	-	+	-
40	9134 WHONP199	*1302	*4601	-	-	-	-
41	9055 H0301	*1402		-	-	-	-
42	9066 TAB089	*4601		-	-	-	-
43	9076 T7526	*4601		-	-	-	-
44	9057 TEM	*3801		-	+	-	-
45	9239 SHJO	*4201	*5001	-	-	+	-
46	9013 SCHU	*0702		-	-	-	-
47	9045 TUBO	*5101		-	-	-	-
48	9303 TER-ND	*3501	*4403	-	-	-	-

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*07 SSP

Product number: 101.512-24/03 – including *Taq* pol.
 Lot number: 68G
 Expiry date: 2012-February-01
 Number of tests: 24 tests – Product No. 101.512-24
 3 tests – Product No. 101.512-03
 Number of wells per test: 68

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-675-01	25	2009-675-25	49	2009-675-49
2	2009-675-02	26	2009-675-26	50	2009-675-50
3	2009-675-03	27	2009-675-27	51	2009-675-51
4	2009-675-04	28	2009-675-28	52	2009-675-52
5	2009-675-05	29	2009-675-29	53	2009-675-53
6	2009-675-06	30	2009-675-30	54	2009-675-54
7	2009-675-07	31	2009-675-31	55	2009-675-55
8	2009-675-08	32	2009-675-32	56	2009-675-56
9	2009-675-09	33	2009-675-33	57	2009-675-57
10	2009-675-10	34	2009-675-34	58	2009-675-58
11	2009-675-11	35	2009-675-35	59	2009-675-59
12	2009-675-12	36	2009-675-36	60	2009-675-60
13	2009-675-13	37	2009-675-37	61	2009-675-61
14	2009-675-14	38	2009-675-38	62	2009-675-62
15	2009-675-15	39	2009-675-39	63	2009-675-63
16	2009-675-16	40	2009-675-40	64	2009-675-64
17	2009-675-17	41	2009-675-41	65	2009-675-65
18	2009-675-18	42	2009-675-42	66	2009-675-66
19	2009-675-19	43	2009-675-43	67	2009-675-67
20	2009-675-20	44	2009-675-44	68	2009-675-68
21	2009-675-21	45	2009-675-45		
22	2009-675-22	46	2009-675-46		
23	2009-675-23	47	2009-675-47		
24	2009-675-24	48	2009-675-48		

The specificity of each primer solution of the kit has been tested against 48 well characterized cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 7, 12, 13, 15, 17, 18, 20 to 23, 25, 27 to 29, 33 to 36, 38, 40 to 42, 48 to 55, 57 to 61, 63, 65 and 68 were available.

The specificities of the primers in primer solutions 7, 12, 13, 15, 17, 18, 20, 23, 25, 27, 29, 36, 38, 40, 48, 51, 53, 60 and 68 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 33, 50, 54, 58, 59, 61 and 65 it was only possible to test the 5'-primer, the 3'-primer were not possible to test. In primer solutions 21, 22, 28, 34, 35, 41, 4, 49, 52, 55, 57 and 63 it was only possible to test the 3'-primers, the 5'-

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primers were not possible to test. In primer solutions 7, 27, 29 and 48 one 5' primer was not possible to test, and in primer solutions 8, 9 to 11, 14, 15, 17, 19, 20, 24, 26, 40 and 51 one or two 3'-primers were not possible to test. Additional primers in primer solutions 8, 10, 11, 19, 24, 26 and 31 were tested by separately adding one additional 5'-primer, or one additional 3'-primer.

Results: No false positive or false negative amplifications were obtained.

Date of approval: 2010-February-09

Approved by:

Quality Control, Supervisor

Lot No.: **68G**

Lot-specific Information

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Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*07
Product number: 101.512-24/03
Lot number: 68G

Intended use: HLA-B*07 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
Hasselstigen 1
SE-133 33 Saltsjöbaden, Sweden
Phone: +46-8-717 88 27
Fax: +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

The Authorized Representative located within the Community is: *Olerup* SSP AB.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom. (Notified Body number: 0088.)

Saltsjöbaden, Sweden
2010-February-09

Olle Olerup
Managing Director

Lot No.: **68G**

Lot-specific Information

www.olerup-ssp.com

ADDRESSES:

Manufacturer:

Olerup SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

Tel: +46-8-717 88 27

Fax: +46-8-717 88 18

E-mail: info-ssp@olerup.com

Web page: <http://www.olerup-ssp.com>

Distributed by:

Olerup GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.

Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: support-at@olerup.com

Web page: <http://www.olerup.com>

Olerup Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

Tel: 1-877-OLERUP1

Fax: 610-344-7989

E-mail: info.us@olerup.com

Web page: <http://www.olerup.com>

For information on *Olerup* SSP distributors worldwide, contact **Olerup GmbH**.