

Olerup SSP[®] HLA-A*02

| | |
|----------------------------------|---|
| Product number: | 101.412-24/04 – including <i>Taq</i> pol. |
| Lot number: | 64G |
| Expiry date: | 2011-December-01 |
| Number of tests: | 24 tests – Product No. 101.412-24 4 tests – Product No. 101.412-04 |
| Number of wells per test: | 96 |
| 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. 64G.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*[®] HLA-A*02 LOT

The HLA-A*02 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP*[®] HLA-A*02 lot was made (Lot No. 71F).

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

| Well | 5'-primer | 3'-primer | rationale |
|------|--------------|-----------|---|
| 15 | - | Added | Primer added for the A*9286 allele. |
| 29 | - | Added | Primer added for the A*9280 allele. |
| 30 | Added | Added | Primer pair added for the A*9263 allele. |
| 31 | - | - | Exchanged positive control primer pair. |
| 32 | - | Added | Primer added for the A*9276 allele. |
| 33 | - | Added | Primers added for the A*9265 and 9268 alleles. |
| 39 | - | Added | Primers added for the A*9259 and 9270 alleles. |
| 46 | - | Added | Primer added for the A*9281 allele, exchanged positive control primer pair. |
| 48 | Moved, added | Added | Primer pair moved to well 90, primer added for the A*9277 allele. |
| 54 | - | Added | Primers added for the A*9289 and 9290 alleles. |
| 56 | - | Added | Primers added for the A*9275 and 9281 alleles. |
| 57 | - | Added | Primers added for the A*9260 and 9275 |

| | | | |
|----|-------|-------|--|
| | | | alleles. |
| 59 | - | Added | Primer added for the A*027902 allele. |
| 64 | Added | - | Primers added for the A*9264 and 9287 alleles. |
| 65 | - | Added | Primer added for the A*9260 allele. |
| 67 | Added | - | Primer added for the A*9277 allele. |
| 68 | - | Added | Primer added for the A*9284 allele. |
| 69 | - | Added | Primer added for the A*9266 allele. |
| 70 | - | Added | Primer added for the A*9292 allele. |
| 72 | - | Added | Primers added for the A*9283 and 9289 alleles. |
| 73 | - | Added | Primer added for the A*9258 allele. |
| 74 | Added | Added | Primer pair added for the A*9287 allele. |
| 75 | - | Added | Primer added for the A*9266 allele. |
| 77 | Added | Added | Primer pair added for the A*9262 allele, exchanged positive control primer pair. |
| 78 | Added | Added | Primer pair added for the A*9293 allele. |
| 79 | - | Added | Primers added for the A*9284 and 9292 alleles. |
| 80 | Added | Added | Primer pair added for the A*9294 allele. |
| 81 | - | Added | Primers added for the A*9265 and 9283 alleles. |
| 84 | Added | Added | Primer pair added for the A*9264 allele. |
| 86 | - | Added | Primer added for the A*9274 allele. |
| 88 | Added | Added | Primer pair added for the A*9288 allele, exchanged positive control primer pair. |
| 89 | Added | Added | Primer pair added for the A*9282 allele, exchanged positive control primer pair. |
| 90 | Added | - | Primer from well 48, primer added for the A*9261 allele. |
| 91 | Added | - | Primer added for the A*9262 allele. |
| 92 | - | Added | Primer added for the A*9273 allele. |
| 93 | Added | - | Primers added for the A*9257 and 9263 alleles. |
| 94 | Added | - | Primer added for the A*9261 allele. |

Change in revision R01 compared to R00:

1. The HLA-A*8001 allele is weakly amplified by primer mix 11. This has been added in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. The HLA-A*0265, 9252, 2919, 3208, 3324, 6805, 6820 and 7406 alleles are weakly amplified by primer mix 60. This has been changed in the Specificity and Interpretation Tables.

PRODUCT DESCRIPTION

HLA-A*02 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the the A*0201 to A*9295 alleles.

PLATE LAYOUT

Each test consists of 96 PCR reactions in a 96 well cut PCR plate.

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 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 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |

The 96 well cut PCR plate is marked with 'HLA-A*02' in silver/gray ink.

Well No. 1 is marked with the Lot No. '64G'.

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-A*02 SSP subtypings will be influenced by four A*01, most A*03, four A*11, most A*23, most A*24, eight A*26, the A*2907 and A*2919, most A*30, the A*3208, seven A*33, the A*3408, the A*6609, the A*68, the A*6901, three A*74 and the A*8001 alleles when present on the other haplotype. In addition, the B*1567 allele will be amplified by primer mix 88 and the B*9573 allele will be amplified by primer mix 93.

UNIQUELY IDENTIFIED ALLELES

All the HLA-A*02 alleles, i.e. **A*0201 to A*9295 alleles**, recognized by the HLA Nomenclature Committee in October 2009¹ will give rise to unique amplification patterns by the primers in the HLA-A*02 subtyping kit. The HLA-A*02 subtyping kit cannot distinguish the A*02010101, 02010103, 020102, 020104-020115, 020118, 020119 and 020121-020132 alleles, the A*020501-020503 allele, the A*020601 to 020607 alleles, the A*021701 and 021702 alleles, the A*022001 and 022002 alleles, the A*022201 and 022202 alleles, the A*027401 and A*027402 alleles and the A*029701 and 029702 alleles.

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

SPECIFICITY TABLE

HLA-A*02 SSP subtyping

Specificities and sizes of the PCR products of the 96 primer mixes used for HLA-A*02 SSP subtyping

| Primer Mix | Size of spec. PCR product ¹ | Size of control band ² | Amplified HLA-A*02 alleles ³ | Other amplified HLA-A alleles ⁴ |
|----------------------|--|-----------------------------------|--|--|
| 1⁸ | 360 bp | 800 bp | *02010101-020115, 020117-020119, 020121-020607, 0208, 0209, 0212-0214, 0216, 0219-022202, 0224-0232N, 0234, 0236-0238, 0240-0246, 0249-0268, 0270-0277, 0279, 0280, 0282N-0286, 0288N, 0289, 0291-029702, 0299, 9201, 9202, 9204-9207, 9209, 9211, 9213N-9223, 9225N-9227, 9231-9235, 9237-9245, 9247, 9249-9257, 9259-9290, 9292-9295 | *0309, 1106, 1118, 2603, 2606, 2621, 2630, 2636, 2919, 3013, 3016, 3208, 3324, 6805, 6815, 6820, 7406, 8001 ^w |
| 2 | 230 bp | 1070 bp | *02010101-020102, 020104-020115, 020117-020119, 020121-0204, 0207, 0209, 0212, 0213, 0215N-022002, 022201, 022202, 0224-0227, 0229-0234, 0236-0240, 0242, 0243N, 0245-0247, 0249, 0250, 0252, 0253N, 0255-025602, 0258-0260, 0262-0268, 0270, 0271, 0273-0277, 0280, 0282N, 0283N, 0285, 0286, 0288N, 0289, 0292-029702, 9201-9205, 9207, 9209-9211, 9213N-9221, 9223, 9225N, 9230-9235, 9238-9241, 9245, 9247-9253, 9255-9268, 9271, 9273-9277, 9281-9295 | *0309, 7406 |
| 3⁶ | 175 bp | 1070 | *02010101-020115, | *68020101- |

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|------------------------|--------|---------------|--|--|
| | | bp | 020117-020119, 020121-020302, 020501-0216, 0218, 022001-022202, 0224-0238, 0240-0243N, 0245-025602, 0258-0264, 0266-0278, 0280-0285, 0287-029702, 0299, 9201-9207, 9209, 9211-9234, 9236-9248, 9250, 9251, 9253-9255, 9257-9289, 9291-9293, 9295 | 680202, 6815, 6818N, 6823, 6827, 6828, 6831, 6834, 6840, 6848, 6901 |
| 4⁵ | 80 bp | 1070 bp | *02010101-020115, 020118, 020119, 020121-020132, 020301-0204, 020601-0207, 0209-0213, 0215n-022202, 0224-023501, 023503-0244, 0245 ^w , 0246, 0249, 0251-0254, 025601 ^w , 0257-0262, 0264-0277, 0278 ^w , 0279-029702, 0299, 9201, 9202, 9204-9214, 9216-9221, 9223-9228, 9230-9243, 9245-9253, 9256-9268, 9270, 9271, 9273-9275, 9277, 9278, 9280-9284, 9287-9294 | *030103, 0323, 260702, 330102, 3308, 3309, 6830, 7404 |
| 5⁵ | 125 bp | 1070 bp | *02010101-020115, 020117-020119, 020121-020132, 0204, 020601-0207, 0209-0211, 0214-0218, 022001-0221, 0225, 0226, 0228-0236, 0239-0243N, 0245, 0246, 0248, 0251-0253N, 0255-0262, 0264, 0266, 0267, 0268 ^w , 0269-029702, 0299, 9201, 9203, 9205-9214, 9216, 9218-9221, 9223-9234, 9238-9241, 9243-9247, 9249-9251, 9253, 9256-9271, 9273-9278, 9280, 9281, 9283-9285, 9287-9290, 9292-9295 | *0317, 230101, 230102, 2304-2322, 241301, 241302, 2418, 2424, 2494, 680801, 680802, 6901 |
| 6^{5,6} | 75 bp | 800 bp | *0202-020302, 020501-020503, 0208, 022201, 022202, 0247, 0249, 0250, 0263, 9202, 9204, 9215, | *680101-6807, 6810-6825, 6827-6847 |

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| | | | 9217, 9222, 9236, 9248, 9254, 9255, 9272, 9279, 9286, 9291 | |
| 7⁷ | 175 bp | 1070 bp | *0202, 020501-020503, 0208, 0214, 0247, 0263, 9202, 9215, 9254, 9255, 9272, 9279, 9286 | |
| 8⁹ | 415 bp, 505 bp | 1070 bp | *0202, 020501-020503, 0214, 0232N, 0247, 0263, 9202, 9215, 9254, 9255, 9272, 9279, 9286 | |
| 9⁵ | 105 bp | 1070 bp | *020301, 020302 ^w , 0225, 0238, 9217, 9248, 9271 | *2499, 2610 |
| 10⁵ | 115 bp | 800 bp | *020301, 020302 ^w , 0213, 0226, 0238, 0299, 9217, 9248, 9271 | *0317, 2418, 2456, 2610, 6842 |
| 11^{8,10} | 225 bp, 350 bp | 1070 bp | *0204, 021701, 021702, 0257, 0265, 0289, 9208, 9210, 9252 | *2312, 2428, 2430, 2442, 2489, 2919, 3208, 3324, 6805, 6820, 7406, 8001 ^w |
| 12¹¹ | 195 bp, 235 bp | 1070 bp | *020501-020607, 0208, 0210, 0214, 0221, 0228, 0241, 0244, 0251, 0254, 0257, 0261, 0272, 0279, 0284, 0285, 0291, 0299, 9206, 9208, 9222, 9226, 9227, 9237, 9242-9244, 9254, 9269, 9270, 9272, 9278-9280 | *1106, 1118, 2603, 2606, 2621, 2630, 6805, 6815, 6820 |
| 13^{5,8} | 145 bp | 800 bp | *020501-020503, 0208, 0214, 0284, 9254, 9272, 9279 | |
| 14^{5,8,12} | 95 bp, 170 bp | 800 bp | *0207, 0215N, 0218, 0291, 9203, 9212, 9230, 9291 | |
| 15^{5,8,13} | 125 bp, 265 bp, 305 bp | 800 bp | *0221, 0287, 0296, 9212, 9229, 9236, 9286 | |
| 16^{5,14} | 110 bp, 155 bp | 800 bp | *0209, 0249, 0250, 0273, 0293, 9222, 9256, 9272 | *2415, 2441, 2451, 2492, 2610, 68020101-680202, 6815, 6818N, 6825, 6827, 6828, 6831, 6834, 6840, 6844, 6848 |
| 17¹⁵ | 205 bp, | 1070 | *0210, 021701, 021702, | *2312, 2428, |

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|----------------------------|----------------|---------------|---|---|
| | 360 bp | bp | 0239, 0283N, 9208, 9210, 9248 | 2430, 2442, 2489 |
| 18 | 175 bp | 1070 bp | *0211, 0229, 0269, 9228 | |
| 19⁵ | 125 bp | 1070 bp | *0212, 0213, 0219, 0227, 0237, 0238, 0244, 0254, 9242 | *24020101-240215, 240217-2405, 2407-2411N, 2414, 2415, 2417, 2419, 2420, 2423, 2425-2453, 2455-2464, 2466-2486N, 2488-2490N, 2492, 2493, 2495-2499, 3319, 6809, 6826 |
| 20 | 295 bp | 1070 bp | *0249 | |
| 21⁸ | 220 bp | 1070 bp | *0215N | |
| 22 | 160 bp | 1070 bp | *0219, 0236, 0237, 0254 | *230101-2302, 2305-2322, 24020101-240226, 2404-2409N, 2411N, 241301-2415, 2417, 2419, 2420, 2423 ^w , 2424-2432, 2434-2464, 2466-2474, 2476-2493, 2495-2499, 3319, 6826 |
| 23^{5,16} | 140 bp, 180 bp | 800 bp | *021701, 021702, 0231, 9208, 9210 | *2494 |
| 24⁵ | 115 bp | 1070 bp | *0227 | *2459 |
| 25⁵ | 145 bp | 1070 bp | *0216, 9231 | *2455 |
| 26^{5,7,17} | 125 bp, 165 bp | 800 bp | *0233, 0252 | |
| 27^{5,18} | 95 bp, 145 bp | 1070 bp | *0210, 0228, 0250, 0252, 0273, 0293, 0295, 9210, 9214, 9217, 9222, 9255, 9256, 9285 | *1116, 1135, 3013, 3016, 680101-6811N, 6813-6848 |
| 28 | 235 bp | 800 bp | *0208, 022001, 022002, 0255-025602, 0262, 0278, 9203, 9228, 9269, 9295 | *030112 |
| 29¹⁹ | 220 bp, | 1070 | *0245, 0246, 0248, | *030112 ^w |

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|---------------------------|------------------------------|---------------|---|---|
| | 300 bp | bp | 025601 ^w , 025602 ^w , 0278 ^w , 0292, 9203 ^w , 9229, 9269 ^w , 9280, 9295 ^w | |
| 30 ^{5,20} | 130 bp, 160 bp | 800 bp | *0243N, 9204, 9263 | |
| 31 ^{5,21} | 95 bp, 220 bp | 800 bp | *0245, 025601, 025602, 0278, 0282N, 9203, 9269, 9295 | *030112, 2308N |
| 32 ²² | 205 bp, 230 bp, 255 bp | 1070 bp | *0246-0248, 0270, 9229, 9276 | |
| 33 | 230 bp | 1070 bp | *0219, 0236, 0237, 0254, 9265, 9268 | |
| 34 ^{5,23} | 120 bp, 180 bp | 800 bp | *0234-023502, 025601, 025602, 0262, 0278, 0288N, 9203 | *300101, 300102, 3008, 301101, 301102, 3014L- 3020, 3023, 3024, 3026, 3030, 3031 |
| 35 ^{5,24} | 110 bp, 155 bp | 1070 bp | *0240, 0251, 0277, 9230 | *230101, 230102, 2302 ^w , 2304-2313, 2314 ^w , 2315-2322, 2424 |
| 36 ^{5,25} | 85 bp, 445 bp | 1070 bp | *0224, 0265, 0294N, 9235, 9237, 9252 | *0309, 1106, 1118, 2603, 2606, 2621, 2630, 2636, 2919, 3013, 3016, 3208, 3324, 7406, 8001 ^w |
| 37 ⁵ | 140 bp | 1070 bp | *0238, 0268, 9201, 9254 | *2310 ^w , 2410, 2446 ^w , 2491, 2610 |
| 38 ⁵ | 125 bp | 800 bp | *0241, 0280, 9217 | |
| 39 ^{5,26} | 75 bp, 165 bp, 200 bp | 1070 bp | *0218, 9259, 9270 | |
| 40 ^{5,27} | 90 bp, 210 bp | 1070 bp | *0240, 0251, 0267, 9230 | *3322 |
| 41 | 185 bp | 1070 bp | *0202, 020501-020503, 0208, 0214, 021701, 021702, 0247, 0257, 0258, 0263, 0275, 9202, 9208, 9210, 9215, 9254, 9255, 9272, 9279, 9286 | *2494 |
| 42 ⁷ | 225 bp | 800 bp | *0234-023503, 025601, 025602, 0262, 9203 | *0113, 0117, 03010101-0307, 0309-0311N, 0313-0331, 0333- |

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|----------------------------|-----------------------------|---------------|---|---|
| | | | | 0335, 0337-0340, 0342-0358, 0360- 0362, 3408, 7413 |
| 43²⁸ | 180 bp, 225 bp | 800 bp | *020301, 020302, 022201, 022202, 0249, 0271, 9204, 9217, 9236, 9248, 9291 | *2622, 6609 |
| 44 | 155 bp | 800 bp | *0259 | |
| 45^{5,29} | 105 bp, 185 bp | 1070 bp | *0219, 0239, 0244, 0260, 0279, 0286 | *0120, 2414, 2493 |
| 46^{5,7,30} | 70 bp, 150 bp, 205 bp | 1070 bp | *0261, 0266, 9281 | |
| 47 | 165 bp | 800 bp | *0263 | |
| 48⁵ | 110 bp | 1070 bp | *0264, 9277, 9278 | |
| 49⁵ | 145 bp | 1070 bp | *0238, 9201, 9254 | *2310 ^w , 2410, 2446 ^w , 2610 |
| 50⁵ | 145 bp | 800 bp | *02010102L | |
| 51 | 410 bp | 1070 bp | *0265, 0280, 9214, 9217, 9252 | *0309, 1106, 1118, 2919, 3208, 3324, 6805, 6820, 7406, 8001 ^w |
| 52 | 185 bp | 800 bp | *0276 | *3022 |
| 53 | 225 bp | 1070 bp | *0214, 021701, 021702, 0257, 0258, 9208, 9210 | *230101, 230102, 230301-2313, 2315-2322, 241301, 2418, 2424, 2494, 2907 |
| 54³¹ | 240 bp, 350 bp | 800 bp | *027401, 027402, 9289, 9290 | |
| 55 | 200 bp | 1070 bp | *0230 | |
| 56³² | 150 bp, 275 bp | 1070 bp | *0253N, 0281, 9224, 9275, 9281 | |
| 57^{5,7,33} | 105 bp, 145 bp | 1070 bp | *0242, 9260, 9275 | |
| 58 | 255 bp | 800 bp | *0211, 023501-023503, 0248, 0269, 0278, 0290, 9228 | *030112 |
| 59⁵ | 145 bp | 800 bp | *029701, 029702 | |
| 60⁸ | 345 bp | 1070 bp | *0250, 0265 ^w , 0273, 9222, 9235, 9252 ^w | *2603, 2606, 2621, 2630, 2636, 2919 ^w , 3208 ^w , 3324 ^w , 6805 ^w , 6815, 6820 ^w , 7406 ^w |

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|---------------------------|------------------------|---------------|---|---|
| 61 ⁷ | 185 bp | 1070 bp | *0250, 0273, 9222, 9256 | *1116, 1135, 680101-6811N, 6813-6843, 6845-6848 |
| 62 | 180 bp | 800 bp | *0269, 9279 | *680101-6832, 6834-6848 |
| 63 | 160 bp | 800 bp | *9205 | |
| 64 ^{5,34} | 125 bp, 175 bp, 260 bp | 1070 bp | *9206, 9245, 9264, 9287 | *0144, 0344, 2472 |
| 65 ^{5,35} | 145 bp, 185 bp | 1070 bp | *9207, 9260 | |
| 66 | 170 bp | 800 bp | *9209 | |
| 67 ^{5,36} | 105 bp, 130 bp | 800 bp | *9211, 9277 | |
| 68 ³⁷ | 215 bp, 260 bp | 1070 bp | *9213N, 9284 | |
| 69 ³⁸ | 170 bp, 335 bp | 1070 bp | *9214, 9266 | |
| 70 ^{5,39} | 125 bp, 280 bp | 800 bp | *9215, 9292 | |
| 71 ⁸ | 260 bp | 800 bp | *9216 | |
| 72 ^{5,40} | 110 bp, 230 bp, 260 bp | 1070 bp | *0219, 0244, 9218, 9235, 9249, 9252, 9283, 9289, 9290 | |
| 73 ⁴¹ | 200 bp, 250 bp | 1070 bp | *9219, 9258 | |
| 74 ⁴² | 175 bp, 260 bp | 800 bp | *9220, 9287 | |
| 75 ^{6,43} | 165 bp, 205 bp | 1070 bp | *9221, 9266 | *6814 |
| 76 | 230 bp | 800 bp | *0250, 9222, 9243 | |
| 77 ^{5,44} | 85 bp, 110 bp | 800 bp | *9223, 9262 | |
| 78 ^{5,45} | 75 bp, 240 bp | 1070 bp | *9224, 9293 | |
| 79 ^{8,46} | 225 bp, 270 bp | 1070 bp | *9225N, 9284, 9292 | |
| 80 ^{5,47} | 135 bp, 230 bp | 1070 bp | *9226, 9294 | |
| 81 ^{5,48} | 110 bp, 235 bp, 315 bp | 1070 bp | *9227, 9265, 9267, 9283 | |
| 82 ⁵ | 130 bp | 1070 bp | *9231 | |

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|-------------------------------|------------------------------|---------------|--|---|
| 83 ⁵ | 100 bp | 800 bp | *9232 | |
| 84 ⁷ | 180 bp | 800 bp | *9233, 9264 | *0144, 0344 |
| 85 | 260 bp | 800 bp | *9234 | |
| 86 ⁴⁹ | 180 bp, 255 bp | 800 bp | *9235, 9274 | |
| 87 | 155 bp | 1070 bp | *9238 | |
| 88 ^{5,50} | 130 bp, 240 bp | 800 bp | *9239, 9288 | B*1567 |
| 89 ^{5,51} | 115 bp, 295 bp | 800 bp | *9240, 9282 | *3315 |
| 90 ^{5,52} | 100 bp, 130 bp, 190 bp | 800 bp | *0272, 9241, 9261 | |
| 91 ⁵ | 110 bp | 800 bp | *0250, 0273, 0293, 9222, 9256, 9262, 9272 | *2415, 2441, 2451, 2492, 2610, 68020101-680202, 6815, 6818N, 6825, 6827, 6828, 6831, 6834, 6840, 6844, 6848 |
| 92 ⁵³ | 180 bp, 260 bp | 1070 bp | *9246, 9273 | |
| 93 ^{5,8,54} | 130 bp, 250 bp, 295 bp | 800 bp | *9247, 9257, 9263 | *2473, B*9573 |
| 94 ^{5,7,8,55} | 130 bp, 210 bp | 800 bp | *9250, 9261 | |
| 95 ⁵ | 135 bp | 800 bp | *0252, 9205, 9247, 9251, 9288 | *6806 |
| 96 | 250 bp | 1070 bp | *9253 | |

¹ Alleles 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-A*02 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.

² The 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-A*02 subtyping.

In addition, wells number 6, 10, 13 to 16, 23, 26, 28, 30, 31, 34, 38, 42 to 44, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 74, 76, 77, 83 to 86, 88 to 91 and 93 to 95 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-A alleles 1st and 4th 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 and 4th exons are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A*02 alleles will be amplified by primer mixes 1 to 6, 9 to 12, 16, 17, 19, 22 to 25, 27 to 29, 31, 34 to 37, 40 to 43, 45, 49, 51 to 53, 58, 60 to 62, 64, 75, 84, 89, 91 to 93 and 95. In addition, the B*1567 allele will be amplified by primer mix 88 and the B*9573 allele will be amplified by primer mix 93.

⁵Short specific PCR fragments are less intense and not as sharp as longer specific bands.

⁶The specific primers in primer mixes 3, 6 and 75 may yield less specific PCR products than the other HLA-A*02 primer mixes.

⁷Primer mixes 7, 26, 42, 46, 57, 61, 84 and 94 have a tendency of giving rise to a primer oligomer artefact.

⁸Primer mixes 1, 11, 13, 14, 15, 21, 60, 71, 79, 93 and 94 have a tendency of giving rise to nonspecific amplifications, most pronounced in wells 1, 60, 71 and 79.

⁹Primer mix 8: Specific PCR fragment of 415 bp in the A*0202, 020501-020503, 0214, 0247, 0263, 9202, 9215, 9254, 9255, 9272, 9279 and 9286 alleles. Specific PCR fragment of 505 bp in the A*0232N allele.

¹⁰Primer mix 11: Specific PCR fragment of 225 bp in the A*0289 allele. Specific PCR fragment of 335 bp in the A*0204, 021701, 021702, 0257, 0265, 9208, 9210 and 9252 and the A*2312, 2428, 2430, 2442, 2489, 2919, 3208, 3324, 6805, 6820, 7406 alleles.

Primer mix 11 may give rise to a long fragment of approx. 600 bp in some HLA-A alleles. This band should not be considered in the interpretation of HLA-A*02 typings.

¹¹Primer mix 12: Specific PCR fragment of 195 bp in A*0285 allele. Specific PCR fragment of 235 bp in the A*020501-020607, 0208, 0210, 0214, 0221, 0228, 0241, 0244, 0251, 0254, 0257, 0261, 0272, 0279, 0284, 0291, 0299, 9206, 9208, 9222, 9226, 9227, 9237, 9242-9244, 9254, 9269, 9270, 9272 and 9278-9280 and the A*1106, 1118, 2603, 2606, 2621, 2630, 6805, 6815 and 6820 alleles.

¹²Primer mix 14: Specific PCR fragment of 95 bp in A*0291 allele. Specific PCR fragment of 170 bp in the A*0207, 0215N, 0218, 9203, 9212 and 9230 alleles.

¹³Primer mix 15: Specific PCR fragment of 125 bp in the A*0221 and 9286 alleles. Specific PCR fragment of 265 bp in the A*0287, 9212, 9229 and 9236 alleles. Specific PCR fragment of 305 bp in the A*0296 allele.

¹⁴Primer mix 16: Specific PCR fragment of 110 bp in the A*0250, 0273, 0293, 9222, 9256 and 9272 and the A*2415, 2441, 2451, 2492, 2610, 68020101-680202, 6815, 6818N, 6825, 6827, 6828, 6831, 6834, 6840, 6844 and 6848 alleles. Specific PCR fragment of 155 bp in the A*0209 and 0249 alleles.

¹⁵Primer mix 17: Specific PCR fragment of 205 bp in the A*0283N allele. Specific PCR fragment of 360 bp in the A*0210, 021701021702, 0239, 9208, 9210 and 9248 and the A*2312, 2418, 2430, 2442 and 2489 alleles.

¹⁶Primer mix 23: Specific PCR fragment of 140 bp in the A*0231 allele. Specific PCR fragment of 180 bp in the A*021701-021702, 9208 and 9210 and the A*2494 alleles.

¹⁷Primer mix 26: Specific PCR fragment of 125 bp in the A*0233 allele. Specific PCR fragment of 165 bp in the A*0252 allele.

¹⁸Primer mix 27: Specific PCR fragment of 95 bp in the A*0228, 9255 and 9285 and the A*3013 and 3016 alleles. Specific PCR fragments of 145 bp in A*0210, 0250, 0252, 0273, 0293, 0295, 9210, 9214, 9217, 9222 and 9256 and the A*1116, 1135, 680101-6811N and 6813-6848 alleles.

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¹⁹Primer mix 29: Specific PCR fragment of 220 bp in the A*0245, 0246, 0248, 025601^w, 025602^w, 0278^w, 0292, 9203^w, 9229, 9269^w and 9295^w and the A*030112^w alleles. Specific PCR fragment of 300 bp in A*9280 allele.

²⁰Primer mix 30: Specific PCR fragment of 130 bp in the A*9263 allele. Specific PCR fragment of 160 bp in A*0243N and 9204 alleles.

²¹Primer mix 31: Specific PCR fragment of 95 bp in A*0282N and in the A*2308 alleles. Specific PCR fragments of 220 bp in A*0245, 025601, 025602, 0278, 0282N, 9203, 9269 and 9295 and the A*030112 alleles.

²²Primer mix 32: Specific PCR fragment of 205 bp in the A*9276 allele. Specific PCR fragment of 230 bp in the A*0246, 0248, 0270 and 9229 alleles. Specific PCR fragment of 255 bp in the A*0247 allele.

²³Primer mix 34: Specific PCR fragment of 120 bp in the A*0288N allele. Specific PCR fragment of 180 bp in the A*0234-023502, 025601, 025602, 0262, 0278 and 9203 and the A*300101, 300102, 3008, 301101, 301102, 3014L-3020, 3023, 3024, 3026, 3030 and 3031 alleles.

Primer mix 34 may give rise to a long fragment of approx. 600 bp in some HLA-A alleles. This band should not be considered in the interpretation of HLA-A*02 typings.

²⁴Primer mix 35: Specific PCR fragment of 110 bp in A*0240, 0251 and 9230 and the A*230101, 230102, 2302^w, 2304-2313, 2314^w, 2315-2322 and 2424 alleles. Specific PCR fragment of 155 bp in A*0277 allele.

²⁵Primer mix 36: Specific PCR fragment of 85 bp in A*0294N allele. Specific PCR fragments of 445 bp in the A*0224, 0265, 9235, 9237 and 9252 and the A*0309, 1106, 1118, 2603, 2606, 2621, 2630, 2636, 2919, 3013, 3016, 3208, 3324, 7406 and 8001^w alleles.

²⁶Primer mix 39: Specific PCR fragment of 75 bp in the A*0218 allele. Specific PCR fragment of 165 bp in the A*9259 allele. Specific PCR fragment of 200 bp in the A*9270 allele.

²⁷Primer mix 40: Specific PCR fragment of 90 bp in the A*0267 allele. Specific PCR fragment of 210 bp in the A*0240, 0251 and 9230 and the A*3322 alleles.

²⁸Primer mix 43: Specific PCR fragment of 180 bp in the A*0271 allele. Specific PCR fragment of 225 bp in the A*020301, 020302, 022201, 022202, 0249, 9204, 9217, 9236, 9248 and 9291 and the A*2622 and 6609 alleles.

²⁹Primer mix 45: Specific PCR fragment of 105 bp in the A*0260 allele. Specific PCR fragment of 185 bp in the A*0219, 0239, 0244, 0279 and 0286 and the A*0120, 2414 and 2493 alleles.

³⁰Primer mix 46: Specific PCR fragment of 70 bp in the A*0266 allele. Specific PCR fragment of 150 bp in the A*9281 allele. Specific PCR fragment of 205 bp in the A*0261 allele.

³¹Primer mix 54: Specific PCR fragment of 240 bp in the A*9289 and 9290 alleles. Specific PCR fragment of 350 bp in A* 027401 and 027402 alleles.

³²Primer mix 56: Specific PCR fragment of 150 bp in the A*9275 and 9281 alleles. Specific PCR fragment of 275 bp in A*0253N, 0281 and 9224 alleles.

³³Primer mix 57: Specific PCR fragment of 105 bp in the A*0242 allele. Specific PCR fragment of 145 bp in A* 9260 and 9275 alleles.

³⁴Primer mix 64: Specific PCR fragment of 125 bp in the A*9206 and 9245 and the A*2472 alleles. Specific PCR fragment of 175 bp in A*9264 and the A*0144 and 0344 alleles. Specific PCR fragment of 260 bp in A*9287 allele.

³⁵Primer mix 65: Specific PCR fragment of 145 bp in the A*9260 allele. Specific PCR fragment of 185 bp in A*9207 allele.

³⁶Primer mix 67: Specific PCR fragment of 105 bp in the A*9277 allele. Specific PCR fragment of 130 bp in A*9211 allele.

³⁷Primer mix 68: Specific PCR fragment of 215 bp in the A*9213N allele. Specific PCR fragment of 260 bp in A*9284 allele.

³⁸Primer mix 69: Specific PCR fragment of 170 bp in the A*9214 allele. Specific PCR fragment of 335 bp in A*9266 allele.

³⁹Primer mix 70: Specific PCR fragment of 125 bp in the A*9215 allele. Specific PCR fragment of 280 bp in A*9292 allele.

⁴⁰Primer mix 72: Specific PCR fragment of 110 bp in the A*9283 allele. Specific PCR fragment of 230 bp in A*9289 allele. Specific PCR fragment of 260 bp in A*0219, 0244, 9218, 9235, 9249, 9252 and 9290 alleles.

⁴¹Primer mix 73: Specific PCR fragment of 200 bp in the A*9219 allele. Specific PCR fragment of 250 bp in A*9258 allele.

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⁴²Primer mix 74: Specific PCR fragment of 175 bp in the A*9220 allele. Specific PCR fragment of 260 bp in A*9287 allele.

⁴³Primer mix 75: Specific PCR fragment of 165 bp in the A*9266 allele. Specific PCR fragment of 205 bp in A*9221 and the A*6814 alleles.

⁴⁴Primer mix 77: Specific PCR fragment of 85 bp in the A*9223 allele. Specific PCR fragment of 110 bp in the A*9262 allele.

⁴⁵Primer mix 78: Specific PCR fragment of 75 bp in the A*9293 allele. Specific PCR fragment of 240 bp in the A*9224 allele.

⁴⁶Primer mix 79: Specific PCR fragment of 225 bp in the A*9225N allele. Specific PCR fragment of 270 bp in A*9284 and 9292 alleles.

⁴⁷Primer mix 80: Specific PCR fragment of 135 bp in the A*9294 allele. Specific PCR fragment of 230 bp in A*9226 allele.

⁴⁸Primer mix 81: Specific PCR fragment of 110 bp in the A*9283 allele. Specific PCR fragment of 235 bp in A*9265 allele. Specific PCR fragment of 315 bp in A*9227 and 9267 alleles.

⁴⁹Primer mix 86: Specific PCR fragment of 180 bp in the A*9235 allele. Specific PCR fragment of 255 bp in the A* 9274 allele.

⁵⁰Primer mix 88: Specific PCR fragment of 130 bp in the A*9288 and the B*1567 alleles. Specific PCR fragment of 240 bp in the A* 9239 allele.

⁵¹Primer mix 89: Specific PCR fragment of 115 bp in the A*9240 and the A*3315 alleles. Specific PCR fragment of 295 bp in the A* 9282 allele.

⁵²Primer mix 90: Specific PCR fragment of 100 bp in the A*0272 allele. Specific PCR fragment of 130 bp in the A*9261 allele. Specific PCR fragment of 190 bp in the A* 9241 allele.

⁵³Primer mix 92: Specific PCR fragment of 180 bp in the A*9273 allele. Specific PCR fragment of 260 bp in the A* 9246 allele.

⁵⁴Primer mix 93: Specific PCR fragment of 130 bp in the A*9263 allele. Specific PCR fragment of 250 bp in the A*9247 and the A*2473 and B*9573 alleles. Specific PCR fragment of 295 bp in the A* 9257 allele.

⁵⁵Primer mix 94: Specific PCR fragment of 130 bp in the A*9261 allele. Specific PCR fragment of 210 bp in A*9250 allele.

'w', might be weakly amplified.

| INTERPRETATION TABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|-------------------|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|
| HLA-A*02 high resolution SSP typing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amplification patterns of the HLA-A*0201 to *9295 alleles | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Well ³ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | | | | 2 | | | | 3 | | | | 4 | | | | 5 | | | | 6 | | | | 7 | | | | 8 | | | | 9 | | | | 0 | | | | 1 | | | | 2 | | | | 3 | | | | 4 | | | | 5 | | | | 6 | | | | 7 | | | | 8 | | | | 9 | | | | 0 | | | | 1 | | | | 2 | | | | 3 | | | | 4 | | | | 5 | | | | 6 | | | | 7 | | | | 8 | | | | 9 | | | |
| Length of spec. | PCR product(s) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Length of int. pos. control ¹ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weil No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HLA-A allele ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *02010101, 02010103, 020102, 020104-020115, 020118, 020119, 020121-020132 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *02010102L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *020103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *020117 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0202 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *020301 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *020302 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0204 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *020501-020503 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *020601-020607 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0207 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0208 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0209 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0211 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0212 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0213 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0214 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0215N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0216 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *021701, 021702 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0218 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0219 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *022001, 022002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| *022201, 022202 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| *9280 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9281 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9282 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9283 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9284 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9285 | + | + | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9286 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9287 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9288 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9289 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9290 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9291 | + | | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9292 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9293 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9294 | + | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *9295 | + | + | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0113, 0117, 03010101-030102, 030104-030111, 030113-0307, 0310, 0311N, 0313-0316, 0318-0322, 0324-0331, 0333-0335, 0337-0340, 0342, 0343, 0345-0358, 0360-0362, 3408, 7413 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Well No. | | | | | 1 1 1 1 1 1 1 1 1 1 2 | | | | | | | | 2 2 2 2 2 2 2 2 2 2 2 2 | | | | | | | | 2 3 3 3 | | | 3 3 3 3 | | | 3 3 3 4 | | | | 4 4 4 4 | | | | | | | | | | | | | | | | | | | | |
| HLA-A allele ² | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | |

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| Well No. | 1 2 3 4 | | | | 5 6 7 8 | | | | 9 0 1 2 | | | | 3 4 5 6 | | | | 7 8 9 0 | | | | 1 2 3 4 | | | | 5 6 7 8 | | | | 9 0 1 2 | | | | 3 4 5 6 | | | | 7 8 9 0 | | | | 1 2 3 4 | | | | 5 6 7 8 | | | | | | | | | | | |
|--|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|--|--|--|--|--|--|--|--|
| HLA-A allele ² | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | |
| *0120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0144 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *030103, 0323 | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *030112 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0309 | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0317 | | | | | + | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *0344 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *1106, 1118 | + | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *1116, 1135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *230101, 230102, 2305-2307N, 2309, 2311N, 2313, 2315- 2322, 2424 | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2302 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *230301, 230302, 2907 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2304 | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2308N | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2310 | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2312 | | | | | + | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2314 | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *24020101-240215, 240217-240226, 2404, 2405, 2407- 2409N, 2411N, 2417, 2419, 2420, 2425-2427, 2429, 2431, 2432, 2434- 2440N, 2443- 2445N, 2447-2450, 2452, 2453, 2457, 2458, 2460N-2464, 2466-2471, 2474, 2476-2486N, 2488, 2490N, 2495-2498, 3319 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *240216, 2406, 2454, 2487 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *240301, 240302, 2433, 2475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *241301 | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *241302 | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2414, 2493 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2415, 2441, 2451, 2492 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2418 | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2423 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2428, 2430, 2442, 2489 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2446 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2455 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2456 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2459 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2472 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2473 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2491 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Well No. | 1 | | | | 2 | | | | 3 | | | | 4 | | | | 5 | | | | 6 | | | | 7 | | | | 8 | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HLA-A allele ² | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| *2494 | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *2499 | | | | | | | | | + | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | |
| *2603, 2606, 2621, 2630 | + | | | | | | | | | | + | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | |
| *260702, 330102, 3308, 3309, 7404 | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *2610 | | | | | | | | | + | + | | | | + | | | | | | | | | | | | | | | | | | | | | | | + | | | | |
| *2622, 6609 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | |
| *2636 | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| *2919, 3208, 3324 | + | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *300101, 300102, 3008, 301101, 301102, 3014L, 3015, 3017-3020, 3023, 3024, 3026, 3030, 3031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| *3013 | + | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | + | |
| *3016 | + | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | + | |
| *3022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *3315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *3322 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *680101-680107, 680301-6804, 6807, 6810, 6811N, 6813, 6816, 6817, 6819, 6821, 6822, 6824, 6829, 6832, 6835-6839, 6841, 6843, 6845-6847 | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| *68020101-680202, 6818N, 6827, 6828, 6831, 6834, 6840 | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| *6805, 6820 | + | | | | | | | | | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *680801, 680802 | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| *6809 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| *6812 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| *6814 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6815 | + | | + | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6823 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6825 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6826 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6830 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6833 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6842 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6844 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6848 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *6901 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| *7406 | + | + | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| *8001 | w | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | w | | |
| B*1567 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B*9573 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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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-A*02 subtyping. .

In addition, wells number 6, 10, 13 to16, 23, 26, 28, 30, 31, 34, 38, 42 to 44, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 74, 76, 77, 83 to 86, 88 to 91 and 93 to 95 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

²The sequence of A*020116 has been renamed to A*9234.

The sequence of A*020120 has been shown to be identical to A*020118

The sequence of the A*0223 allele has been shown to be identical to A*0222.

The sequence of the A*0298 allele has been shown to be identical to A*0296.

³Primer mix 8: Specific PCR fragment of 415 bp in the A*0202, 020501-020503, 0214, 0247, 0263, 9202, 9215, 9254, 9255, 9272, 9279 and 9286 alleles. Specific PCR fragment of 505 bp in the A*0232N allele.

Primer mix 11: Specific PCR fragment of 225 bp in the A*0289 allele. Specific PCR fragment of 335 bp in the A*0204, 021701, 021702, 0257, 0265, 9208, 9210 and 9252 and the A*2312, 2428, 2430, 2442, 2489, 2919, 3208, 3324, 6805, 6820, 7406 alleles.

Primer mix 11 may give rise to a long fragment of approx. 600 bp in some HLA-A alleles. This band should not be considered in the interpretation of HLA-A*02 typings.

Primer mix 12: Specific PCR fragment of 195 bp in A*0285 allele. Specific PCR fragment of 235 bp in the A*020501-020607, 0208, 0210, 0214, 0221, 0228, 0241, 0244, 0251, 0254, 0257, 0261, 0272, 0279, 0284, 0291, 0299, 9206, 9208, 9222, 9226, 9227, 9237, 9242-9244, 9254, 9269, 9270, 9272 and 9278-9280 and the A*1106, 1118, 2603, 2606, 2621, 2630, 6805, 6815 and 6820 alleles.

Primer mix 14: Specific PCR fragment of 95 bp in A*0291 allele. Specific PCR fragment of 170 bp in the A*0207, 0215N, 0218, 9203, 9212 and 9230 alleles.

Primer mix 15: Specific PCR fragment of 125 bp in the A*0221 and 9286 alleles. Specific PCR fragment of 265 bp in the A*0287, 9212, 9229 and 9236 alleles. Specific PCR fragment of 305 bp in the A*0296 allele.

Primer mix 16: Specific PCR fragment of 110 bp in the A*0250, 0273, 0293, 9222, 9256 and 9272 and the A*2415, 2441, 2451, 2492, 2610, 68020101-680202, 6815, 6818N, 6825, 6827, 6828, 6831, 6834, 6840, 6844 and 6848 alleles. Specific PCR fragment of 155 bp in the A*0209 and 0249 alleles.

Primer mix 17: Specific PCR fragment of 205 bp in the A*0283N allele. Specific PCR fragment of 360 bp in the A*0210, 021701021702, 0239, 9208, 9210 and 9248 and the A*2312, 2418, 2430, 2442 and 2489 alleles.

Primer mix 23: Specific PCR fragment of 140 bp in the A*0231 allele. Specific PCR fragment of 180 bp in the A*021701-021702, 9208 and 9210 and the A*2494 alleles.

Primer mix 26: Specific PCR fragment of 125 bp in the A*0233 allele. Specific PCR fragment of 165 bp in the A*0252 allele.

Primer mix 27: Specific PCR fragment of 95 bp in the A*0228, 9255 and 9285 and the A*3013 and 3016 alleles. Specific PCR fragments of 145 bp in A*0210, 0250, 0252, 0273, 0293, 0295, 9210, 9214, 9217, 9222 and 9256 and the A*1116, 1135, 680101-6811N and 6813-6848 alleles.

Primer mix 29: Specific PCR fragment of 220 bp in the A*0245, 0246, 0248, 025601^w, 025602^w, 0278^w, 0292, 9203^w, 9229, 9269^w and 9295^w and the A*030112^w alleles. Specific PCR fragment of 300 bp in A*9280 allele.

Primer mix 30: Specific PCR fragment of 130 bp in the A*9263 allele. Specific PCR fragment of 160 bp in A*0243N and 9204 alleles.

Primer mix 31: Specific PCR fragment of 95 bp in A*0282N and in the A*2308 alleles. Specific PCR fragments of 220 bp in A*0245, 025601, 025602, 0278, 0282N, 9203, 9269 and 9295 and the A*030112 alleles.

Primer mix 32: Specific PCR fragment of 205 bp in the A*9276 allele. Specific PCR fragment of 230 bp in the A*0246, 0248, 0270 and 9229 alleles. Specific PCR fragment of 255 bp in the A*0247 allele.

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Primer mix 34: Specific PCR fragment of 120 bp in the A*0288N allele. Specific PCR fragment of 180 bp in the A*0234-023502, 025601, 025602, 0262, 0278 and 9203 and the A*300101, 300102, 3008, 301101, 301102, 3014L-3020, 3023, 3024, 3026, 3030 and 3031 alleles.

Primer mix 34 may give rise to a long fragment of approx. 600 bp in some HLA-A alleles. This band should not be considered in the interpretation of HLA-A*02 typings.

Primer mix 35: Specific PCR fragment of 110 bp in A*0240, 0251 and 9230 and the A*230101, 230102, 2302^w, 2304-2313, 2314^w, 2315-2322 and 2424 alleles. Specific PCR fragment of 155 bp in A*0277 allele.

Primer mix 36: Specific PCR fragment of 85 bp in A*0294N allele. Specific PCR fragments of 445 bp in the A*0224, 0265, 9235, 9237 and 9252 and the A*0309, 1106, 1118, 2603, 2606, 2621, 2630, 2636, 2919, 3013, 3016, 3208, 3324, 7406 and 8001^w alleles.

Primer mix 39: Specific PCR fragment of 75 bp in the A*0218 allele. Specific PCR fragment of 165 bp in the A*9259 allele. Specific PCR fragment of 200 bp in the A*9270 allele.

Primer mix 40: Specific PCR fragment of 90 bp in the A*0267 allele. Specific PCR fragment of 210 bp in the A*0240, 0251 and 9230 and the A*3322 alleles.

Primer mix 43: Specific PCR fragment of 180 bp in the A*0271 allele. Specific PCR fragment of 225 bp in the A*020301, 020302, 022201, 022202, 0249, 9204, 9217, 9236, 9248 and 9291 and the A*2622 and 6609 alleles.

Primer mix 45: Specific PCR fragment of 105 bp in the A*0260 allele. Specific PCR fragment of 185 bp in the A*0219, 0239, 0244, 0279 and 0286 and the A*0120, 2414 and 2493 alleles.

Primer mix 46: Specific PCR fragment of 70 bp in the A*0266 allele. Specific PCR fragment of 150 bp in the A*9281 allele. Specific PCR fragment of 205 bp in the A*0261 allele.

Primer mix 54: Specific PCR fragment of 240 bp in the A*9289 and 9290 alleles. Specific PCR fragment of 350 bp in A* 027401 and 027402 alleles.

Primer mix 56: Specific PCR fragment of 150 bp in the A*9275 and 9281 alleles. Specific PCR fragment of 275 bp in A*0253N, 0281 and 9224 alleles.

Primer mix 57: Specific PCR fragment of 105 bp in the A*0242 allele. Specific PCR fragment of 145 bp in A* 9260 and 9275 alleles.

Primer mix 64: Specific PCR fragment of 125 bp in the A*9206 and 9245 and the A*2472 alleles. Specific PCR fragment of 175 bp in A*9264 and the A*0144 and 0344 alleles. Specific PCR fragment of 260 bp in A*9287 allele.

Primer mix 65: Specific PCR fragment of 145 bp in the A*9260 allele. Specific PCR fragment of 185 bp in A*9207 allele.

Primer mix 67: Specific PCR fragment of 105 bp in the A*9277 allele. Specific PCR fragment of 130 bp in A*9211 allele.

Primer mix 68: Specific PCR fragment of 215 bp in the A*9213N allele. Specific PCR fragment of 260 bp in A*9284 allele.

Primer mix 69: Specific PCR fragment of 170 bp in the A*9214 allele. Specific PCR fragment of 335 bp in A*9266 allele.

Primer mix 70: Specific PCR fragment of 125 bp in the A*9215 allele. Specific PCR fragment of 280 bp in A*9292 allele.

Primer mix 72: Specific PCR fragment of 110 bp in the A*9283 allele. Specific PCR fragment of 230 bp in A*9289 allele. Specific PCR fragment of 260 bp in A*0219, 0244, 9218, 9235, 9249, 9252 and 9290 alleles.

Primer mix 73: Specific PCR fragment of 200 bp in the A*9219 allele. Specific PCR fragment of 250 bp in A*9258 allele.

Primer mix 74: Specific PCR fragment of 175 bp in the A*9220 allele. Specific PCR fragment of 260 bp in A*9287 allele.

Primer mix 75: Specific PCR fragment of 165 bp in the A*9266 allele. Specific PCR fragment of 205 bp in A*9221 and the A*6814 alleles.

Primer mix 77: Specific PCR fragment of 85 bp in the A*9223 allele. Specific PCR fragment of 110 bp in the A*9262 allele.

Primer mix 78: Specific PCR fragment of 75 bp in the A*9293 allele. Specific PCR fragment of 240 bp in the A*9224 allele.

Primer mix 79: Specific PCR fragment of 225 bp in the A*9225N allele. Specific PCR fragment of 270 bp in A*9284 and 9292 alleles.

Primer mix 80: Specific PCR fragment of 135 bp in the A*9294 allele. Specific PCR fragment of 230 bp in A*9226 allele.

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Primer mix 81: Specific PCR fragment of 110 bp in the A*9283 allele. Specific PCR fragment of 235 bp in A*9265 allele. Specific PCR fragment of 315 bp in A*9227 and 9267 alleles.

Primer mix 86: Specific PCR fragment of 180 bp in the A*9235 allele. Specific PCR fragment of 255 bp in the A* 9274 allele.

Primer mix 88: Specific PCR fragment of 130 bp in the A*9288 and the B*1567 alleles. Specific PCR fragment of 240 bp in the A* 9239 allele.

Primer mix 89: Specific PCR fragment of 115 bp in the A*9240 and the A*3315 alleles. Specific PCR fragment of 295 bp in the A* 9282 allele.

Primer mix 90: Specific PCR fragment of 100 bp in the A*0272 allele. Specific PCR fragment of 130 bp in the A*9261 allele. Specific PCR fragment of 190 bp in the A* 9241 allele.

Primer mix 92: Specific PCR fragment of 180 bp in the A*9273 allele. Specific PCR fragment of 260 bp in the A* 9246 allele.

Primer mix 93: Specific PCR fragment of 130 bp in the A*9263 allele. Specific PCR fragment of 250 bp in the A*9247 and the A*2473 and B*9573 alleles. Specific PCR fragment of 295 bp in the A* 9257 allele.

Primer mix 94: Specific PCR fragment of 130 bp in the A*9261 allele. Specific PCR fragment of 210 bp in A*9250 allele.

'w', might be weakly amplified.

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Primers

| Well No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Length of spec. PCR product | 360 | 230 | 175 | 80 | 125 | 75 | 175 | 415 | 105 | 115 | 225 | 195 |
| | | | | | | | | 505 | | | 350 | 235 |
| Length of int. pos. control ¹ | 800 | 1070 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 |
| 5'-primer(s) ² | 292 5'-CTC 3' | 102 5'-ACA 3' | 362 5'-gAg 3' | 200 5'-CCA 3' | 453 5'-AAA 3' | 506 5'-gCA 3' | 402 5'-CTg 3' | 270 5'-AAA 3' | 453 5'-AAA 3' | 453 5'-AAA 3' | 292 5'-CTC 3' | 98 5'-CTA 3' |
| | | | 362 5'-gAg 3' | | | | | | | | 648 5'-CAA 3' | 362 5'-gAg 3' |
| 3'-primer(s) ³ | 368 5'-CAT 3' | 292 5'-gTg 3' | 497 5'-Tgg 3' | 240 5'-ggA 3' | 539 5'-TCA 3' | 539 5'-TCC 3' | 538 5'-CCA 3' | 402 5'-CgC 3' | 517 5'-CgT 3' | 527 5'-CCT 3' | 362 5'-TCA 3' | 292 5'-gTg 3' |
| | | | | 241 5'-CgC 3' | | | 538 5'-CAA 3' | 493 5'-CTA 3' | | | 362 5'-TCA 3' | 518 5'-CCA 3' |
| | | | | | | | | | | | 831 5'-TCC 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 |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------------------|------------------|------------------|------------------|------------------|
| Length of spec. PCR product | 145 | 95 | 125 | 110 | 205 | 175 | 125 | 295 | 220 | 160 | 140 | 115 |
| | | 170 | 265 | 155 | 360 | | | | | | 180 | |
| Length of int. pos. control ¹ | 800 | 800 | 800 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 1070 |
| 5'-primer(s) ² | 98 5'-CTA 3' | 368 5'-gTg 3' | 78 5'-TCT 3' | 385 5'-ggC 3' | 292 5'-CTC 3' | 144 5'-gCA 3' | 453 5'-AAA 3' | 2 nd 5'-CCA 3' | 666 5'-gAA 3' | 453 5'-AAA 3' | 194 5'-Cgg 3' | 453 5'-AAA 3' |
| | 355 5'-CCT 3' | 445 5'-TCT 3' | | 666 5'-gAA 3' | 666 5'-gAA 3' | | | | | | 368 5'-gTT 3' | |
| 3'-primer(s) ³ | 200 5'-TCC 3' | 497 5'-Tgg 3' | 160 5'-gTT 3' | 453 5'-TCT 3' | 368 5'-CAA 3' | 268 5'-TTg 3' | 538 5'-CTg 3' | 538 5'-CCg 3' | 843 5'-gTT 3' | 570 5'-CCg 3' | 292 5'-gTg 3' | 527 5'-CCg 3' |
| | 453 5'-TCT 3' | | 160 5'-gTg 3' | 779 5'-CTT 3' | 829 5'-CTA 3' | 290 5'-CAA 3' | | | | | 506 5'-TgT 3' | |
| | | | 302 5'-ggT 3' | | | | | | | | | |
| | | | 343 5'-A 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 |
|--|------------------|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------------------|------------------|------------------|------------------|
| Length of spec. PCR product | 145 | 125 | 95 | 235 | 220 | 130 | 95 | 205 | 230 | 120 | 110 | 85 |
| | | 165 | 145 | | 300 | 160 | 220 | 230 | | 180 | 155 | 445 |
| Length of int. pos. control ¹ | 1070 | 800 | 1070 | 800 | 1070 | 800 | 800 | 1070 | 1070 | 800 | 1070 | 1070 |
| 5'-primer(s) ² | 453 5'-AAA 3' | 2 nd 5'-CCA 3' | 238 5'-AgA 3' | 78 5'-TCT 3' | 78 5'-TCT 3' | 529 5'-TgA 3' | 78 5'-TCT 3' | 78 5'-TCT 3' | 2 nd 5'-CCA 3' | 144 5'-gCA 3' | 453 5'-AAA 3' | 292 5'-CTC 3' |
| | | | 391 5'-ACg 3' | | | 666 5'-gAA 3' | 564 5'-TgA 3' | | | 420 5'-TAg 3' | | |
| | | | 391 5'-ACg 3' | | | | | | | | | |
| 3'-primer(s) ³ | 559 5'-CTC 3' | 368 5'-CAg 3' | 292 5'-gTg 3' | 270 5'-ACg 3' | 257 5'-CCT 3' | 616 5'-CgT 3' | 256 5'-CTg 3' | 241 5'-CgT 3' | 473 5'-CgA 3' | 282 5'-gAC 3' | 524 5'-CAC 3' | 335 5'-gC 3' |
| | | 411 5'-TCA 3' | 497 5'-Tgg 3' | 270 5'-ACA 3' | 337 5'-CTg 3' | 781 5'-CCC 3' | 616 5'-CgT 3' | 265 5'-CCC 3' | 482 5'-Tgg 3' | 282 5'-gAC 3' | 569 5'-ACA 3' | 453 5'-TCg 3' |
| | | | | | | 791 5'-AgT 3' | | 290 5'-gAC 3' | 570 5'-CCg 3' | 497 5'-Tgg 3' | | |
| Well No. | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |

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| Well No. | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Length of spec. PCR product | 140 | 125 | 75 165 | 90 210 | 185 | 225 | 180 225 | 155 | 105 185 | 70 150 | 165 | 110 |
| Length of int. pos. control ¹ | 1070 | 800 | 1070 | 1070 | 1070 | 800 | 800 | 800 | 1070 | 1070 | 800 | 1070 |
| 5'-primer(s) ² | 453 5'-AAA 3' | 414 5'-CAg 3' | 453 5'-AAA 3' | 355 5'-CCg 3' | 355 5'-CCC 3' | 98 5'-CTT 3' | 355 5'-CCg 3' | 125 5'-CgA 3' | 355 5'-CCg 3' | 78 5'-TCT 3' | 78 5'-TCT 3' | 419 5'-gTC 3' |
| | | | | | 692 5'-gAA 3' | | | | | 746 5'-gAT 3' | | 431 5'-CgC 3' |
| 3'-primer(s) ³ | 542 5'-CTT 3' | 497 5'-Tgg 3' | 485 5'-CCT 3' | 403 5'-gCA 3' | 506 5'-TgT 3' | 282 5'-gAC 3' | 494 5'-TCC 3' | 240 5'-ggA 3' | 419 5'-CgA 3' | 187 5'-gTg 3' | 203 5'-TCA 3' | 497 5'-Tgg 3' |
| | 559 5'-CCg 3' | | 578 5'-Tgg 3' | 524 5'-CAC 3' | 831 5'-TCC 3' | 282 5'-gAC 3' | 539 5'-TCC 3' | | 497 5'-TgA 3' | 241 5'-CgC 3' | | |
| | | | 613 5'-gCA 3' | | | | | | | 777 5'-gCA 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 |
|--|------------------|-------------------|------------------|------------------|------------------|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Length of spec. PCR product | 145 | 145 | 410 | 185 | 225 | 240 350 | 200 | 150 275 | 105 145 | 255 | 145 | 345 |
| Length of int. pos. control ¹ | 1070 | 800 | 1070 | 800 | 1070 | 800 | 1070 | 1070 | 1070 | 800 | 800 | 1070 |
| 5'-primer(s) ² | 453 5'-AAA 3' | -111 5'-ATC 3' | 292 5'-CTC 3' | 98 5'-CTC 3' | 355 5'-CCC 3' | 2 nd 5'-CCA 3' | 81 5'-CAg 3' | 78 5'-TCT 3' | 78 5'-TCT 3' | 78 5'-TCT 3' | 666 5'-gAA 3' | 292 5'-CTC 3' |
| 3'-primer(s) ³ | 559 5'-CCg 3' | 4 5'-ggC 3' | 418 5'-gTC 3' | 240 5'-ggA 3' | 538 5'-CAA 3' | 475 5'-CgA 3' | 240 5'-ggA 3' | 187 5'-gTg 3' | 142 5'-TgA 3' | 292 5'-gTC 3' | 768 5'-gTg 3' | 355 5'-gAT 3' |
| | | | | | | 497 5'-Tgg 3' | | 187 5'-gTA 3' | 184 5'-gCC 3' | | 768 5'-gTA 3' | |
| | | | | | | 595 5'-CCg 3' | | 302 5'-ggC 3' | 187 5'-gTA 3' | | | |
| | | | | | | 595 5'-CCT 3' | | 324 5'-TAC 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 | 69 | 70 | 71 | 72 |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------------------|------------------|------------------|--------------------------------|
| Length of spec. PCR product | 185 | 180 | 160 | 125 175 | 145 185 | 170 | 105 130 | 215 260 | 170 335 | 125 280 | 260 | 110 230 |
| Length of int. pos. control ¹ | 1070 | 800 | 800 | 1070 | 1070 | 800 | 800 | 1070 | 1070 | 800 | 800 | 1070 |
| 5'-primer(s) ² | 355 5'-CCA 3' | 666 5'-gAA 3' | 420 5'-TAT 3' | 395 5'-gCA 3' | 78 5'-TCT 3' | 112 5'-CCT 3' | 406 5'-gCA 3' | 78 5'-TCT 3' | 2 nd 5'-CCA 3' | 78 5'-TCT 3' | 78 5'-TCT 3' | 2 nd 5'-CCA 3' |
| | | | | 484 5'-ACT 3' | | | 431 5'-CgC 3' | | | | | |
| | | | | 530 5'-ggT 3' | | | | | | | | |
| 3'-primer(s) ³ | 497 5'-Tgg 3' | 806 5'-CCA 3' | 538 5'-CAA 3' | 616 5'-CgT 3' | 184 5'-gCC 3' | 240 5'-ggA 3' | 497 5'-Tgg 3' | 251 5'-CCT 3' | 413 5'-gCC 3' | 164 5'-gCT 3' | 298 5'-CAg 3' | 353 5'-CgA 3' |
| | | | | | 221 5'-ACA 3' | | | 299 5'-CCT 3' | 578 5'-TgT 3' | 319 5'-gCT 3' | | 475 5'-CgA 3' |
| | | | | | | | | | | | | 506 5'-TgC 3' |
| Well No. | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |

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| Well No. | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------------|-------------------|-------------------|-------------------|
| Length of spec. PCR product | 200 | 175 | 165 | 230 | 85 | 75 | 225 | 135 | 110 | 130 | 100 | 180 |
| Length of int. pos. control ¹ | 1070 | 800 | 1070 | 800 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 800 |
| 5'-primer(s) ² | 78 5' -TCT 3' | 104 5' -ATA 3' | 453 5' -AAA 3' | 48 5' -gCT 3' | 78 5' -TCT 3' | 417 5' -CAC 3' | 78 5' -TCT 3' | 359 5' -CCg 3' | 2 nd I 5' -CCA 3' | 666 5' -gAA 3' | 808 5' -CgA 3' | 78 5' -TCT 3' |
| | | 395 5' -gCA 3' | | | 385 5' -ggA 3' | 666 5' -gAA 3' | | 666 5' -gAA 3' | | | | 484 5' -ACT 3' |
| 3'-primer(s) ³ | 239 5' -gAT 3' | 240 5' -ggA 3' | 578 5' -TgT 3' | 106 5' -CAT 3' | 121 5' -gCA 3' | 453 5' -TCT 3' | 260 5' -T.T 3' | 453 5' -TCT 3' | 353 5' -CgA 3' | 755 5' -CCA 3' | 868 5' -CAA 3' | 221 5' -ACC 3' |
| | 289 5' -AgC 3' | 616 5' -CgT 3' | 616 5' -CgC 3' | | 453 5' -TCT 3' | 866 5' -AAA 3' | 299 5' -CCT 3' | 853 5' -CAT 3' | 482 5' -Tgg 3' | | | 616 5' -CgT 3' |
| | | | | | | | 319 5' -gCT 3' | | 559 5' -CTT 3' | | | |
| Well No. | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 |

| Well No. | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
|--|-------------------|---------------------------------|-------------------|-------------------|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Length of spec. PCR product | 260 | 180 | 155 | 130 | 115 | 100 | 110 | 180 | 130 | 130 | 135 | 250 |
| Length of int. pos. control ¹ | 800 | 800 | 1070 | 800 | 800 | 800 | 800 | 1070 | 800 | 800 | 800 | 1070 |
| 5'-primer(s) ² | 666 5' -gAA 3' | 2 nd I 5' -CCA 3' | 78 5' -TCT 3' | 78 5' -TCT 3' | 2 nd I 5' -CCA 3' | 143 5' -CgT 3' | 385 5' -ggC 3' | 78 5' -TCT 3' | 364 5' -ggT 3' | 124 5' -gCA 3' | 412 5' -ATg 3' | 355 5' -CCg 3' |
| | | | | 419 5' -gTC 3' | 652 5' -CTg 3' | 205 5' -ggg 3' | 385 5' -ggA 3' | | 409 5' -ggC 3' | 205 5' -ggg 3' | | |
| | | | | | | 235 5' -AgA 3' | | | 529 5' -TgA 3' | | | |
| 3'-primer(s) ³ | 884 5' -ggA 3' | 423 5' -TAA 3' | 193 5' -Cgg 3' | 277 5' -ggT 3' | 542 5' -CTg 3' | 292 5' -gTg 3' | 453 5' -TCT 3' | 218 5' -gCA 3' | 616 5' -CgT 3' | 292 5' -gTg 3' | 506 5' -TgT 3' | 565 5' -CAT 3' |
| | | 502 5' -CTg 3' | | 506 5' -TgT 3' | 727 5' -CCA 3' | | | 299 5' -TCg 3' | | | | |
| Well No. | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |

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-A*02 subtyping. .

In addition, wells number 6, 10, 13 to 16, 23, 26, 28, 30, 34, 38, 42 to 44, 46, 47, 50, 52, 54, 58, 59, 62, 63, 66, 67, 70, 71, 74, 76, 83 to 86, 90, 91 and 93 to 95 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

²The nucleotide position, in the 5' upstream region, 2nd, 3rd or 4th exons or the 2nd intron, 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.

³The nucleotide position, in the 2nd, 3rd or 4th exons, 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 | |
| | | | | Lot No.: | 200626001 | 200626002 | 200957803 | 200626004 | 200626005 | 200626006 | 200957807 | 200738508 | 200626009 | 200626010 | 200849411 | 200626012 | 200738513 | 200957814 | 200967115 | 200957816 |
| | IHWC cell line | A* | A* | | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 LK707 | *0201 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | 9011 E4181324 | *0101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | *3001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | 9009 KAS011 | *0101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | 9353 SM | *0201 | *2603 | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | 9020 QBL | *2601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | 9025 DEU | *3101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | 9026 YAR | *2601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 9107 LKT3 | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | 9051 PITOUT | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 9052 DBB | *0201 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | 9004 JESTHOM | *0201 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | 9071 OLGA | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | 9075 DKB | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | 9037 SWEIG007 | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | 9282 CTM3953540 | *0301 | *8001 | W | - | - | - | - | - | - | - | - | - | W | - | - | - | - | - | - |
| 18 | 9257 32367 | *3301 | *7401 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 | 9038 BM16 | *0201 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 9059 SLE005 | *0201 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | 9064 AMALA | *0217 | | - | + | - | + | + | - | - | - | - | - | + | - | - | - | - | - | - |
| 22 | 9056 KOSE | *0201 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9061 31227ABO | *0201 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 | 9035 JBUSH | *3201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 25 | 9049 IBW9 | *3301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | *0205 | | + | - | + | + | - | + | + | + | - | - | - | + | + | - | - | - | - |
| 27 | 9191 CJ1007 | *2410 | *2901 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 28 | 9320 BEL5GB | *0201 | *2902 | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | 9050 MOU | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 9021 RSH | *3001 | *6802 | - | - | + | - | - | + | - | - | - | - | - | - | - | - | - | - | + |
| 31 | 9019 DUCAF | *3002 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 9297 HAG | *0201 | | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 33 | 9098 MT14B | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 34 | 9104 DHIF | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 35 | 9302 SSTO | *3201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | *0206 | *1101 | + | - | + | + | + | - | - | - | - | - | - | + | - | - | - | - | - |
| 37 | 9065 HHKB | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 38 | 9099 LZL | *0217 | | - | + | - | + | + | - | - | - | - | - | + | - | - | - | - | - | - |
| 39 | 9315 CML | *0101 | *0301 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | 9134 WHONP199 | *0207 | *3001 | - | + | + | + | + | - | - | - | - | - | - | - | - | + | - | - | - |
| 41 | 9055 H0301 | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 42 | 9066 TAB089 | *0201 | *0207 | + | + | + | + | + | - | - | - | - | - | - | - | - | + | - | - | - |
| 43 | 9076 T7526 | *0206 | *0207 | + | + | + | + | + | - | - | - | - | - | - | + | - | + | - | - | - |
| 44 | 9057 TEM | *6601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 45 | 9239 SHJO | *2301 | *2402 | - | - | - | - | + | - | - | - | - | - | - | - | - | - | + | - | - |
| 46 | 9013 SCHU | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 47 | 9045 TUBO | *0216 | *0301 | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 48 | 9303 TER-ND | *0201 | *1101 | + | + | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - |

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| HLA-A*02 SSP subtyping kit | | | | | | | | | | | | | | | | | | | | |
| | | | | Well | | | | | | | | | | | | | | | | |
| | | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | |
| | | | Lot No.: | 200626017 | 200626018 | 200957819 | 200738520 | 200738521 | 200626022 | 200849423 | 200738524 | 200626025 | 200738526 | 200849427 | 200626028 | 200967129 | 200967130 | 200967131 | 200967132 | |
| | IHWC cell line | A* | A* | | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *2402 | | - | - | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 LK707 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | 9011 E4181324 | *0101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | *3001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | 9009 KAS011 | *0101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | 9353 SM | *0201 | *2603 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | 9020 QBL | *2601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | 9025 DEU | *3101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | 9026 YAR | *2601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 9107 LKT3 | *2402 | | - | - | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 11 | 9051 PITOUT | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 9052 DBB | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | 9004 JESTHOM | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | 9071 OLGA | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | 9075 DKB | *2402 | | - | - | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 16 | 9037 SWEIG007 | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | 9282 CTM3953540 | *0301 | *8001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18 | 9257 32367 | *3301 | *7401 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 | 9038 BM16 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 9059 SLE005 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | 9064 AMALA | *0217 | | + | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - |
| 22 | 9056 KOSE | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9061 31227ABO | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 | 9035 JBUSH | *3201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 25 | 9049 IBW9 | *3301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | *0205 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | 9191 CJ1007 | *2410 | *2901 | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 28 | 9320 BEL5GB | *0201 | *2902 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | 9050 MOU | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 9021 RSH | *3001 | *6802 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 31 | 9019 DUCAF | *3002 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 9297 HAG | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 33 | 9098 MT14B | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 34 | 9104 DHIF | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 35 | 9302 SSTO | *3201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | *0206 | *1101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 37 | 9065 HHKB | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 38 | 9099 LZL | *0217 | | + | - | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - |
| 39 | 9315 CML | *0101 | *0301 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | 9134 WHONP199 | *0207 | *3001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41 | 9055 H0301 | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 42 | 9066 TAB089 | *0201 | *0207 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | 9076 T7526 | *0206 | *0207 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 44 | 9057 TEM | *6601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 45 | 9239 SHJO | *2301 | *2402 | - | - | + | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 46 | 9013 SCHU | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 47 | 9045 TUBO | *0216 | *0301 | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 48 | 9303 TER-ND | *0201 | *1101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----------------|--------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A*02 SSP subtyping kit | | | | | | | | | | | | | | | | | | | |
| | | | | Well | | | | | | | | | | | | | | | |
| | | | | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| | | | | Lot No.: | | | | | | | | | | | | | | | |
| | | | | 200967133 | 200967134 | 200626035 | 200626036 | 200738537 | 200967138 | 200967139 | 200738540 | 200957841 | 200967142 | 200626043 | 200626044 | 200626045 | 200967146 | 200967147 | 200967148 |
| | IHWC cell line | A* | A* | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 LK707 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | 9011 E4181324 | *0101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 9275 GU373 | *3001 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | 9009 KAS011 | *0101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | 9353 SM | *0201 | *2603 | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | 9020 QBL | *2601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | 9025 DEU | *3101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | 9026 YAR | *2601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 9107 LKT3 | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | 9051 PITOUT | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 9052 DBB | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | 9004 JESTHOM | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | 9071 OLGA | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | 9075 DKB | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | 9037 SWEIG007 | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | 9282 CTM3953540 | *0301 | *8001 | - | - | - | W | - | - | - | - | - | + | - | - | - | - | - | - |
| 18 | 9257 32367 | *3301 | *7401 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 | 9038 BM16 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 9059 SLE005 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | 9064 AMALA | *0217 | | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 22 | 9056 KOSE | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9061 31227ABO | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 | 9035 JBUSH | *3201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 25 | 9049 IBW9 | *3301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | 9285 WT49 | *0205 | | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 27 | 9191 CJ1007 | *2410 | *2901 | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 28 | 9320 BEL5GB | *0201 | *2902 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | 9050 MOU | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 9021 RSH | *3001 | *6802 | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 31 | 9019 DUCAF | *3002 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 9297 HAG | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 33 | 9098 MT14B | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 34 | 9104 DHIF | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 35 | 9302 SSTO | *3201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 36 | 9024 KT17 | *0206 | *1101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 37 | 9065 HHKB | *0301 | | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - |
| 38 | 9099 LZL | *0217 | | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 39 | 9315 CML | *0101 | *0301 | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - |
| 40 | 9134 WHONP199 | *0207 | *3001 | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 41 | 9055 H0301 | *0301 | | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - |
| 42 | 9066 TAB089 | *0201 | *0207 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | 9076 T7526 | *0206 | *0207 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 44 | 9057 TEM | *6601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 45 | 9239 SHJO | *2301 | *2402 | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 46 | 9013 SCHU | *0301 | | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - |
| 47 | 9045 TUBO | *0216 | *0301 | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - |
| 48 | 9303 TER-ND | *0201 | *1101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | Well | | | | | | | | | | | | | | | |
|----|-----------------|--------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| | | | | 200738549 | 200738550 | 200738551 | 200738552 | 200957853 | 200967154 | 200849455 | 200967156 | 200967157 | 200738558 | 200967159 | 200738560 | 200738561 | 200738562 | 200738563 | 200967164 |
| | IHWC cell line | A* | A* | Lot No.: | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 2 | 9280 LK707 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 3 | 9011 E4181324 | *0101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 4 | 9275 GU373 | *3001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 5 | 9009 KAS011 | *0101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 6 | 9353 SM | *0201 | *2603 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 7 | 9020 QBL | *2601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 8 | 9025 DEU | *3101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 9 | 9026 YAR | *2601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 10 | 9107 LKT3 | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 11 | 9051 PITOUT | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 12 | 9052 DBB | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 13 | 9004 JESTHOM | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 14 | 9071 OLGA | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 15 | 9075 DKB | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 16 | 9037 SWEIG007 | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 17 | 9282 CTM3953540 | *0301 | *8001 | - | - | W | - | - | - | - | - | - | - | - | - | - | - | | |
| 18 | 9257 32367 | *3301 | *7401 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 19 | 9038 BM16 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 20 | 9059 SLE005 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 21 | 9064 AMALA | *0217 | | - | - | - | - | + | - | - | - | - | - | - | - | - | - | | |
| 22 | 9056 KOSE | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 23 | 9061 31227ABO | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 24 | 9035 JBUSH | *3201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 25 | 9049 IBW9 | *3301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 26 | 9285 WT49 | *0205 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 27 | 9191 CJ1007 | *2410 | *2901 | + | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 28 | 9320 BEL5GB | *0201 | *2902 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 29 | 9050 MOU | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 30 | 9021 RSH | *3001 | *6802 | - | - | - | - | - | - | - | - | - | + | - | - | - | - | | |
| 31 | 9019 DUCAF | *3002 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 32 | 9297 HAG | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 33 | 9098 MT14B | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 34 | 9104 DHIF | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 35 | 9302 SSTO | *3201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 36 | 9024 KT17 | *0206 | *1101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 37 | 9065 HHKB | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 38 | 9099 LZL | *0217 | | - | - | - | - | + | - | - | - | - | - | - | - | - | - | | |
| 39 | 9315 CML | *0101 | *0301 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 40 | 9134 WHONP199 | *0207 | *3001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 41 | 9055 H0301 | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 42 | 9066 TAB089 | *0201 | *0207 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 43 | 9076 T7526 | *0206 | *0207 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 44 | 9057 TEM | *6601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 45 | 9239 SHJO | *2301 | *2402 | - | - | - | - | + | - | - | - | - | - | - | - | - | - | | |
| 46 | 9013 SCHU | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 47 | 9045 TUBO | *0216 | *0301 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 48 | 9303 TER-ND | *0201 | *1101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------------|--------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-A*02 SSP subtyping kit | | | | | | | | | | | | | | | | | | | |
| | | | Lot No.: | Well | | | | | | | | | | | | | | | |
| | | | | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
| | | | | 200967181 | 200738582 | 200738583 | 200967184 | 200967185 | 200967186 | 200849487 | 200967188 | 200967189 | 200967190 | 200967191 | 200967192 | 200967193 | 200967194 | 200957895 | 200957896 |
| | IHWC cell line | A* | A* | | | | | | | | | | | | | | | | |
| 1 | 9001 SA | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 2 | 9280 LK707 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 3 | 9011 E4181324 | *0101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 4 | 9275 GU373 | *3001 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 5 | 9009 KAS011 | *0101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 6 | 9353 SM | *0201 | *2603 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 7 | 9020 QBL | *2601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 8 | 9025 DEU | *3101 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 9 | 9026 YAR | *2601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 10 | 9107 LKT3 | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 11 | 9051 PITOUT | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 12 | 9052 DBB | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 13 | 9004 JESTHOM | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 14 | 9071 OLGA | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 15 | 9075 DKB | *2402 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 16 | 9037 SWEIG007 | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 17 | 9282 CTM3953540 | *0301 | *8001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 18 | 9257 32367 | *3301 | *7401 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 19 | 9038 BM16 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 20 | 9059 SLE005 | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 21 | 9064 AMALA | *0217 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 22 | 9056 KOSE | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 23 | 9061 31227ABO | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 24 | 9035 JBUSH | *3201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 25 | 9049 IBW9 | *3301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 26 | 9285 WT49 | *0205 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 27 | 9191 CJ1007 | *2410 | *2901 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 28 | 9320 BEL5GB | *0201 | *2902 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 29 | 9050 MOU | *2902 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 30 | 9021 RSH | *3001 | *6802 | - | - | - | - | - | - | - | - | + | - | - | - | - | - | | |
| 31 | 9019 DUCAF | *3002 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 32 | 9297 HAG | *0201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 33 | 9098 MT14B | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 34 | 9104 DHIF | *31012 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 35 | 9302 SSTO | *3201 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 36 | 9024 KT17 | *0206 | *1101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 37 | 9065 HHKB | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 38 | 9099 LZL | *0217 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 39 | 9315 CML | *0101 | *0301 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 40 | 9134 WHONP199 | *0207 | *3001 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 41 | 9055 H0301 | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 42 | 9066 TAB089 | *0201 | *0207 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 43 | 9076 T7526 | *0206 | *0207 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 44 | 9057 TEM | *6601 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 45 | 9239 SHJO | *2301 | *2402 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 46 | 9013 SCHU | *0301 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 47 | 9045 TUBO | *0216 | *0301 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 48 | 9303 TER-ND | *0201 | *1101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-A*02 SSP

Product number: 101.412-24/04 – including *Taq* pol.
Lot number: 64G
Expiry date: 2011-December-01
Number of tests: 24 tests – Product No. 101.412-24
4 tests – Product No. 101.412-04
Number of wells per test: 96

Well specifications:

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 1 | 2006-260-01 | 33 | 2009-671-33 | 65 | 2009-671-65 |
| 2 | 2006-260-02 | 34 | 2009-671-34 | 66 | 2009-578-66 |
| 3 | 2009-578-03 | 35 | 2006-260-35 | 67 | 2009-671-67 |
| 4 | 2006-260-04 | 36 | 2006-260-36 | 68 | 2009-671-68 |
| 5 | 2006-260-05 | 37 | 2007-385-37 | 69 | 2009-671-69 |
| 6 | 2006-260-06 | 38 | 2009-671-38 | 70 | 2009-671-70 |
| 7 | 2009-578-07 | 39 | 2009-671-39 | 71 | 2009-671-71 |
| 8 | 2007-385-08 | 40 | 2007-385-40 | 72 | 2009-671-72 |
| | | | | | |
| 9 | 2006-260-09 | 41 | 2009-578-41 | 73 | 2009-671-73 |
| 10 | 2006-260-10 | 42 | 2009-671-42 | 74 | 2009-671-74 |
| 11 | 2008-494-11 | 43 | 2006-260-43 | 75 | 2009-671-75 |
| 12 | 2006-260-12 | 44 | 2006-260-44 | 76 | 2009-578-76 |
| 13 | 2006-260-13 | 45 | 2006-260-45 | 77 | 2009-671-77 |
| 14 | 2009-578-14 | 46 | 2009-671-46 | 78 | 2009-671-78 |
| 15 | 2009-671-15 | 47 | 2009-671-47 | 79 | 2009-671-79 |
| 16 | 2009-578-16 | 48 | 2009-671-48 | 80 | 2009-671-80 |
| | | | | | |
| 17 | 2006-260-17 | 49 | 2007-385-49 | 81 | 2009-671-81 |
| 18 | 2006-260-18 | 50 | 2007-385-50 | 82 | 2007-385-82 |
| 19 | 2009-578-19 | 51 | 2007-385-51 | 83 | 2007-385-83 |
| 20 | 2007-385-20 | 52 | 2007-385-52 | 84 | 2009-671-84 |
| 21 | 2007-385-21 | 53 | 2009-578-53 | 85 | 2009-671-85 |
| 22 | 2006-260-22 | 54 | 2009-671-54 | 86 | 2009-671-86 |
| 23 | 2008-494-23 | 55 | 2008-494-55 | 87 | 2008-494-87 |
| 24 | 2007-385-24 | 56 | 2009-671-56 | 88 | 2009-671-88 |
| | | | | | |
| 25 | 2006-260-25 | 57 | 2009-671-57 | 89 | 2009-671-89 |
| 26 | 2007-385-26 | 58 | 2007-385-58 | 90 | 2009-671-90 |
| 27 | 2008-494-27 | 59 | 2009-671-59 | 91 | 2009-671-91 |
| 28 | 2006-260-28 | 60 | 2007-385-60 | 92 | 2009-671-92 |
| 29 | 2009-671-29 | 61 | 2007-385-61 | 93 | 2009-671-93 |
| 30 | 2009-671-30 | 62 | 2007-385-62 | 94 | 2009-671-94 |
| 31 | 2009-671-31 | 63 | 2007-385-63 | 95 | 2009-578-95 |
| 32 | 2009-671-32 | 64 | 2009-671-64 | 96 | 2009-578-96 |

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

No DNAs carrying the alleles to be amplified by primer solutions 15, 20, 21, 24, 26, 29, 30, 32, 33, 38 to 40, 44 to 48, 50, 52, 54, 56, 57, 59, 63 to 74, 76 to 90 and 92 to 96 were available.

The specificities of the primers in primer solutions 15, 20, 26, 30, 32, 33, 40, 45, 46, 52, 56, 69, 72, 77, 78, 80, 84, 88, 92, 93 and 95 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

In primer solutions 21, 24, 29, 39, 47, 54, 57, 59, 65, 68, 70, 71, 73, 76, 79, 81, 82, 85 to 87, 89 and 96 it was only possible to test the 5'-primer, the 3'-primer were not possible to test.

In primer solutions 38, 44, 48, 63, 64, 66, 67, 74, 90 and 94 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

In primer solutions 4, 8, 12, 15, 17, 18, 26, 28, 30, 32, 33, 35 to 37, 40, 43, 45, 46, 56, 69, 72, 75, 77, 80, 84, 88 and 92 one or several of the 3'-primers were not possible to test.

In primer solutions 11, 13, 14, 23, 27, 30, 34, 41, 46, 77, 78, 80, 84, 91 and 93 one of the 5'-primers was not possible to test.

In primer solutions 50 and 83 neither the 5'-primer nor the 3'-primer was possible to test.

Additional primers in primer solutions 10 to 13, 17, 23, 27, 31, 34 and 41 were tested by separately adding either one additional 3'-primer or one additional 5'-primer.

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

Date of approval: 2010-May-28

Approved by:

Quality Control, Supervisor

Lot No.: **64G**

Lot-specific information

www.olerup-ssp.com

Declaration of Conformity

Product name: *Olerup* SSP® HLA-A*02
Product number: 101.412-24/04
Lot number: 64G

Intended use: HLA-A*02 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
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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, 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-May-28

Olle Olerup
Managing Director

Lot No.: **64G**

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