

INTERPRETATION TABLE

HLA-B*53 SSP subtyping

Amplification patterns of the B*5301 to B*5313 alleles

| | Tube ⁴ | | | | | | | |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Length of spec. | 145 | 270 | 135 | 180 | 140 | 205 | 135 | 165 |
| PCR product | | | | | | 235 | | |
| Length of int. | 800 | 1070 | 800 | 800 | 800 | 800 | 1070 | 1070 |
| pos. control ¹ | | | | | | | | |
| 5'-primer(s) ² | 206 | 355 | 206 | 419 | 206 | 106 | 368 | 527 |
| | 5'-gAC ^{3'} | 5'-TCA ^{3'} | 5'-gAC ^{3'} | 5'-gTT ^{3'} | 5'-gAC ^{3'} | 5'-CCA ^{3'} | 5'-gTC ^{3'} | 5'-TgA ^{3'} |
| | | | | | | 419 | | |
| | | | | | | 5'-gTC ^{3'} | | |
| 3'-primer(s) ³ | 309 | 583 | 301 | 559 | 302 | 302 | 463 | 3 rd I |
| | 5'-ATC ^{3'} | 5'-gTg ^{3'} | 5'-gTC ^{3'} | 5'-CAg ^{3'} | 5'-ggC ^{3'} | 5'-ggC ^{3'} | 5'-gCT ^{3'} | 5'-TAT ^{3'} |
| | | | | | 309 | 583 | | |
| | | | | | 5'-gTg ^{3'} | 5'-gTg ^{3'} | | |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| HLA-B allele | | | | | | | | |
| *530101-530104 | + | | | | | | | |
| *5302 | + | + | | | | + | | |
| *5303 | | | + | | | | | |
| *5304 | + | | | + | | | | |
| *5305 | + | | | | + | | | |
| *5306 | + | + | | | | + | | + |
| *5307 | + | | | + | | | + | |
| *5308 | + | | | | | | | + |
| *5309 | | | | | + | | | |
| *5310 | + | | | | | | | |
| *5311 | | | | | + | | | |
| *5312 | | | | | + | + | | |
| *5313 | | | | | + | | | |
| *070201-0724, 0727-0733, 0735-0742, 0744-0747, 0749N, 0750, 0752-0760, 0806, 0820, 1403, 1530, 1533, 1545, 1563, 1577, 1578, 1599, 9516, 2725, 3544, 3918, 3936, 4015, 4016, 4023, 4032, 4805, 4808, 5709, 5713 | | | | | | | | + |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| | | | | | | | | |
|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|

| Length of spec. | 145 | 270 | 135 | 180 | 140 | 205 | 135 | 165 |
|--|-----|-----|-----|-----|-----|-----|-----|-----|
| PCR product | | | | | | 235 | | |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| *4418, 4501, 4504-4507, 5613 | | | | + | | | | |
| *1304, 1505, 1520, 1591, 9523, 9536, 350101-350106, 3505, 3507, 3510, 3516, 3517, 3519, 3523, 3525-3527, 3529, 3530, 3532, 3537, 3540N-3542, 3546-3552, 3554, 3557, 3563, 3568, 3569, 3571, 3576-3578, 3582, 4443, 4802, 5609, 570101-570102, 5706, 5708, 5710, 5711 | | | | | | | | |
| *1301, 4611, 5601, 5607, 5608, 5614 | | | | + | | | | |
| *130201-130204, 1308Q, 1309, 1314, 1315, 1319, 3560, 5401, 5402, 5405N, 5407, 5408N, 5412, 5413, 550201-550202, 5507, 5510, 5512, 5516, 5518, 5519, 5522, 5526, 5619N, 5901 | | | | | | | | |
| *1310 | | | | | | | | |
| *1316, 1542, 550101-550104, 5503, 5505, 5511, 5515, 5524, 5525 | | | | | | | | + |
| *1318, 5410 | | | | | | | | |
| *15010101-150104, 150106, 1504, 1507, 1508, 151101-1512, 1514, 1515, 1519, 1524, 1526N-1528, 1534, 1535, 1543, 1546, 1547, 1549, 1550, 1553, 1554, 1556, 1557, 1560, 1565, 1566, 1568, 1570, 1571, 1576, 1579N, 1581, 1582, 1585, 1587, 1592, 1594N, 1596, 1597, 9501, 9502, 9504, 9509, 9510, 9513, 9517, 9518, 9520, 9522, 9525, 9526, 9535, 351401-351402, 3543, 3567, 3579, 460101-4605, 4607N, 4610, 4612, 5406, 5603 | | | | | | | | + |
| *1502, 1506, 1513, 1521, 1525, 1536, 1544, 1589, 9506, 9512, 9521, 4905 | | | | | | | | + |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| Length of spec. | 145 | 270 | 135 | 180 | 140 | 205 | 135 | 165 |
|---|-----|-----|-----|-----|-----|-----|-----|-----|
| PCR product | | | | | | 235 | | |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| *1503, 1516, 1518, 1523, 1529, 1539, 1540, 1561, 1562, 1564, 1567, 1569, 1574, 1580, 1593, 1595, 1598, 9503, 9508, 9519, 9527, 9531, 9532, 9534, 9538, 9539, 3511, 3558, 4608, 4904, 5514 | | | | | | | | + |
| *1531, 1555 | | | | | | | | |
| *1532 | | | | | | | + | + |
| *1538 | | | | | | + | | + |
| *1551, 3562, 4417 | | | | | | | | |
| *1552, 9514, 9524, 3515, 3535, 3907, 4814, 5409, 5523, 5618, 570103 | | | | | | | | |
| *1558, 1573, 9537 | | | | + | | | | + |
| *1575, 9505, 9511N | | | | | | | | |
| *1584, 350801-350803, 3545, 3561 | | | | | | | | |
| *1588 | | | | | | | | |
| * 9507, 3553N, 3564 | | | | | | | | |
| *9515 | | | | | | + | | + |
| *9528, 9529 | | | | | | | | + |
| *9533 | | | | + | | | | + |
| *180101-1806, 1808, 1812, 1814, 1817N, 1823N-1825, 1827 | | | | | | + | | |
| *1807, 3943 | | | | | | + | | |
| *1809 | | | | | + | + | | |
| *1810, 1811 | | | | | | | | |
| *1813 | | | | | | + | | |
| *1815 | | | | | | + | | + |
| *1818 | | | | | | + | + | |
| *1819 | | | | | | + | | + |
| *1820 | | | | | | W | | |
| *1821 | | | | | | | | + |
| *1822 | | + | | | | + | | |
| *1826 | | | | | | | | |
| *2701-2703, 270502-270510 | | | | | | | | |
| *3503, 3506, 3513, 3536, 3555, 3556, 3559, 3570, 3574, 3575, 3932, 4071, 4410, 5602, 5604, 5611 | | | | + | | | | |
| *352001-352002, 3528, 3572 | | | | | | | | |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| Length of spec. | 145 | 270 | 135 | 180 | 140 | 205 | 135 | 165 |
|---|-----|-----|-----|-----|-----|-----|-----|-----|
| PCR product | | | | | | 235 | | |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| *3521 | | + | | | | + | | + |
| *3524, 5714 | | + | | | | + | | |
| *3538, 3933, 4502, 8201, 8202 | | | | + | | | | |
| *3566 | | | | | | | | |
| *370101-370104, 3703N, 3708 | | | + | | | | + | |
| *3702 | | | + | | | | | |
| *3704 | | + | + | | | | + | |
| *3705, 3711 | | | | | | | + | |
| *3706 | | | | | | | + | |
| *3707 | | | + | | | | | + |
| *3709, 3712 | | | + | | | | | |
| *3710 | | | | | + | | + | |
| *3713 | | | + | | | | + | + |
| *3806, 3807, 5110, 5131 | + | | | | | | | |
| *3909 | | | | | | | + | |
| *4003, 4020, 4038, 4052, 4059, 4606 | | | | | | | | |
| *4028 | | + | | | | | | + |
| *4060 | | | | | | | | |
| *4406, 5105, 5108, 5120, 5144N | + | | | | | | | |
| *4415 | | | | + | | + | | |
| *4503 | | | | | | | | |
| *4609 | | | | | | | | |
| *4901, 4902, 5001, 5002, 5004 | | | | + | | | | + |
| *4903 | + | | | + | | | | + |
| *510101-5103, 5106, 5111N, 5112, 5114, 5116-5118, 5121-5124, 5126-5128, 5130, 5132-5135, 5138, 5139, 5141N, 5143, 5148, 5149, 5151, 520601-520602 | + | | | | | | | + |
| *5104, 5146 | + | + | | | | | | + |
| *5107 | + | | | | | | | + |
| *510901-510902, 5119, 5140, 5142 | + | | | | | | | |
| *511301-511302 | + | | | + | | | | + |
| *5115 | + | | | + | | | | |
| *5129, 5136 | + | | | | | | | + |
| *5137, 5145 | + | | | | | + | | + |
| *520101-520104, 5204, 5205, 5207, 5208, 5211 | + | | | | | | | + |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| | | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|------------|
| Length of spec. | 145 | 270 | 135 | 180 | 140 | 205 | 135 | 165 |
| PCR product | | | | | | 235 | | |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| *5203, 5210 | + | | | | | | | |
| *5209 | + | | | | + | | | + |
| *5403, 5616, 5617, 5620 | | | | + | | | | |
| *5509, 5521 | | | | | | | | + |
| *5801, 5802, 5804, 5807, 5810N-5815 | + | | | | | | | |
| *5805 | + | | | | | | | |
| *5806 | + | | | | | | | + |
| *5808 | + | | | | | | | + |
| *5809 | + | + | | | | + | | |
| *7805 | | | | | | | | + |
| HLA-B allele | | | | | | | | |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Cw*0336 | | | | | | | | |
| Cw*0408, 1515 | | | | + | | | | |
| Tube No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| INTERPRETATION TABLE | | | | | | | | |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---|
| HLA-B*53 SSP subtyping | | | | | | | | |
| Amplification patterns of the B*5301 to B*5313 alleles | | | | | | | | |
| Tube ⁴ | | | | | | | | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| 75 | 150 | 85 | 105 | 90 | 130 | 105 | 155 | Length of spec. PCR product |
| 1070 | 1070 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | Length of int. pos. control ¹ |
| 527 | 419 | 419 | 357 | 206 | 106 | 206 | 539 | 5'-primer(s) ² |
| 5'-TgT ^{3'} | 5'-gTC ^{3'} | 5'-gTC ^{3'} | 5'-Tgg ^{3'} | 5'-ggA ^{3'} | 5'-CCA ^{3'} | 5'-gAC ^{3'} | 5'-gC ^{1'} | |
| | | | | | | | | |
| | | | | | | | | |
| 559 | 527 | 463 | 420 | 256 | 197 | 272 | 3 rd I | 3'-primer ³ |
| 5'-CAg ^{3'} | 5'-CCA ^{3'} | 5'-gCT ^{3'} | 5'-gCT ^{3'} | 5'-CTC ^{3'} | 5'-gAA ^{3'} | 5'-Tgg ^{3'} | 5'-TAT ^{3'} | |
| | | | | 256 | | | | |
| | | | | 5'-ccc ^{3'} | | | | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Tube No. HLA-B allele |
| + | + | + | | | | | + | *530101-530104 |
| + | + | + | | | | | + | *5302 |
| + | + | + | | | | | + | *5303 |
| + | | | | | | | + | *5304 |
| + | + | + | | | | | + | *5305 |
| | | + | | | | | + | *5306 |
| + | | | | | | | + | *5307 |
| | | + | | | | | + | *5308 |
| + | + | + | | | | + | + | *5309 |
| + | + | + | | | + | | + | *5310 |
| + | W | + | | | | | | *5311 |
| + | + | + | | | | | + | *5312 |
| + | + | + | | | | | + | *5313 |
| | | | | | | | | *070201-0724, 0727-0733, 0735-0742, 0744-0747, 0749N, 0750, 0752-0760, 0806, 0820, 1403, 1530, 1533, 1545, 1563, 1577, 1578, 1599, 9516, 2725, 3544, 3918, 3936, 4015, 4016, 4023, 4032, 4805, 4808, 5709, 5713 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Tube No. |

| 75 | 150 | 85 | 105 | 90 | 130 | 105 | 155 | Length of spec. PCR product Tube No. |
|----|-----|----|-----|----|-----|-----|-----|---|
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | | | | | | + | *0726, 0734, 0743, 1320, 1401-140202, 1404-1407N, 1509, 1510, 15170101-151702, 1537, 1572, 1590, 270401-270402, 2706, 2710, 2715, 2718, 2720, 2721, 2724, 3810, 3935, 4005, 4026, 4051, 4815, 5150, 5202, 5517, 5528, 560501-5606, 5621, 7801-7803 |
| | | | | | | | + | *0748, 0813, 1301, 1306, 1307N, 1311-1313, 1317, 1321, 1586, 2707-2709, 2711-2714, 2716, 2717, 2719, 2723, 2726-2737, 3531, 3533, 3565Q, 380101-3805, 3808, 3809, 3811-3817, 39010101-39010102L, 390103-390602, 3910, 3912-3917, 3919, 3920, 3922-3931, 3934, 3937-3942, 400101-400203, 4004, 40060101-401403, 4018, 4019, 4021, 4022N, 4024, 4025, 4027, 4029-4031, 4033-4037, 4039, 4040, 4042-4050, 4053-4058, 4061, 4062, 4064-4070, 4072-4078, 4431, 47010101-4705, 480101-480102, 480301-4804, 4806, 4807, 4809-4813, 4816-4818, 5404, 5411, 5504, 5513, 5527, 5902, 5610, 5612, 670101-6702, 7301, 8101-8103 |
| | | | | | | | + | *0821, 3518, 44020101-440204, 4405, 4408, 4409, 4411, 4412, 4414, 4419N, 4420, 4422-4425, 4427, 4428, 4433-4435, 4441, 4442, 4444, 4448, 4449, 4451-4453, 4455, 5702, 5704, 5705, 5712, 8301 |
| | | | | | | | + | *0825, 1548, 2738, 350201-350202, 350401-350402, 350901-350902, 3512, 3522, 3534, 3539, 3583, 4063, 440301-440303, 4407, 4413, 4426, 4429, 4430, 4432, 4436-4440, 4445-4447, 4450, 4454, 4457, 5508, 5615, 570301-570302, 5707, 7804 |

| | | | | | | | | |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Tube No. |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|

| 75 | 150 | 85 | 105 | 90 | 130 | 105 | 155 | Length of spec. PCR product |
|----|-----|----|-----|----|-----|-----|-----|--|
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Tube No. |
| + | | | + | | | | | *4418, 4501, 4504-4507, 5613 |
| + | + | + | | | | | + | *1304, 1505, 1520, 1591, 9523, 9536, 350101-350106, 3505, 3507, 3510, 3516, 3517, 3519, 3523, 3525, 3527, 3529, 3530, 3532, 3537, 3540N-3542, 3546-3552, 3554, 3557, 3563, 3568, 3569, 3571, 3576, 3578, 3582, 4443, 4802, 5609, 570101-570102, 5706, 5708, 5710, 5711 |
| + | | | + | | | | + | *1301, 4611, 5601, 5607, 5608, 5614 |
| | | | + | | | | + | *130201-130204, 1308Q, 1309, 1314, 1315, 1319, 3560, 5401, 5402, 5405N, 5407, 5408N, 5412, 5413, 550201-550202, 5507, 5510, 5512, 5516, 5518, 5519, 5522, 5526, 5619N, 5901 |
| | W | W | | | | | + | *1310 |
| | | | + | | | | + | *1316, 1542, 550101-550104, 5503, 5505, 5511, 5515, 5524, 5525 |
| | | | + | | | | | *1318, 5410 |
| | | + | | | | | | *15010101-150104, 150106, 1504, 1507, 1508, 151101-1512, 1514, 1515, 1519, 1524, 1526N-1528, 1534, 1535, 1543, 1546, 1547, 1549, 1550, 1553, 1554, 1556, 1557, 1560, 1565, 1566, 1568, 1570, 1571, 1576, 1579N, 1581, 1582, 1585, 1587, 1592, 1594N, 1596, 1597, 9501, 9502, 9504, 9509, 9510, 9513, 9517, 9518, 9520, 9522, 9525, 9526, 9535, 351401-351402, 3543, 3567, 3579, 460101-4605, 4607N, 4610, 4612, 5406, 5603 |
| | | W | | | | | + | *1502, 1506, 1513, 1521, 1525, 1536, 1544, 1589, 9506, 9512, 9521, 4905 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Tube No. |

| 75 | 150 | 85 | 105 | 90 | 130 | 105 | 155 | Length of spec. PCR product Tube No. |
|----|-----|----|-----|----|-----|-----|-----|--|
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | + | | | | | + | *1503, 1516, 1518, 1523, 1529, 1539, 1540, 1561, 1562, 1564, 1567, 1569, 1574, 1580, 1593, 1595, 1598, 9503, 9508, 9519, 9527, 9531, 9532, 9534, 9538, 9539, 3511, 3558, 4608, 4904, 5514 |
| + | W | W | | | | | + | *1531, 1555 |
| | | + | | | | | | *1532 |
| | | + | | | | | | *1538 |
| + | | + | | | | | | *1551, 3562, 4417 |
| | + | + | | | | | + | *1552, 9514, 9524, 3515, 3535, 3907, 4814, 5409, 5523, 5618, 570103 |
| | | | | | | | | *1558, 1573, 9537 |
| | | + | | | | | | *1575, 9505, 9511N |
| + | W | + | | | | | | *1584, 350801-350803, 3545, 3561 |
| | | W | | | | | + | *1588 |
| + | + | | | | | | + | * 9507, 3553N, 3564 |
| | | + | | | | | + | *9515 |
| | | W | | | | | | *9528, 9529 |
| | | | | | | | + | *9533 |
| | + | + | | | | + | + | *180101-1806, 1808, 1812, 1814, 1817N, 1823N-1825, 1827 |
| | + | + | | | | | + | *1807, 3943 |
| | + | + | | | | + | + | *1809 |
| | + | + | | | | + | + | *1810, 1811 |
| | W | + | | | | + | | *1813 |
| | | + | | | | + | + | *1815 |
| | + | + | | | | + | + | *1818 |
| | | + | | | | + | | *1819 |
| | W | W | | | | + | + | *1820 |
| | | | | | | + | | *1821 |
| | + | + | | | | + | + | *1822 |
| | | | | | | + | + | *1826 |
| | | | | | | | + | *2701-2703, 270502-270510 |
| + | | | | | | | + | *3503, 3506, 3513, 3536, 3555, 3556, 3559, 3570, 3574, 3575, 3932, 4071, 4410, 5602, 5604, 5611 |
| + | + | + | | | | + | + | *352001-352002, 3528, 3572 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Tube No. |

| 75 | 150 | 85 | 105 | 90 | 130 | 105 | 155 | Length of spec. PCR product Tube No. |
|----|-----|----|-----|----|-----|-----|-----|--|
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | + | | | | | + | *3521 |
| + | + | + | | | | | + | *3524, 5714 |
| + | | | | | | | | *3538, 3933, 4502, 8201, 8202 |
| | W | + | | | | | | *3566 |
| | | | | | | + | | *370101-370104, 3703N, 3708 |
| | | | | | | + | + | *3702 |
| | | | | | | + | | *3704 |
| | | | | | | + | | *3705, 3711 |
| | | | | | | | | *3706 |
| | | | | | | + | | *3707 |
| | | | | | | + | | *3709, 3712 |
| | | | | | | + | | *3710 |
| | | | | | | | | *3713 |
| | | | | | | | + | *3806, 3807, 5110, 5131 |
| | | | | | | | + | *3909 |
| | + | | | | | | + | *4003, 4020, 4038, 4052, 4059, 4606 |
| | | | | | | | + | *4028 |
| | W | | | | | | + | *4060 |
| + | | | | | | | | *4406, 5105, 5108, 5120, 5144N |
| + | | | + | | | | | *4415 |
| + | | | + | | | | | *4503 |
| + | | + | | | | | | *4609 |
| | | | + | | | | + | *4901, 4902, 5001, 5002, 5004 |
| | | | + | | | + | + | *4903 |
| | | | | | | | + | *510101-5103, 5106, 5111N, 5112, 5114, 5116-5118, 5121-5124, 5126- 5128, 5130, 5132-5135, 5138, 5139, 5141N, 5143, 5148, 5149, 5151, 520601-520602 |
| | | | | | | | + | *5104, 5146 |
| | | | | | | + | + | *5107 |
| + | | | | | | | + | *510901-510902, 5119, 5140, 5142 |
| | | | | | | | + | *511301-511302 |
| + | | | + | | | | + | *5115 |
| | | | | | | | | *5129, 5136 |
| | | + | | | | | + | *5137, 5145 |
| | | | | | | + | + | *520101-520104, 5204, 5205, 5207, 5208, 5211 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Tube No. |

| 75 | 150 | 85 | 105 | 90 | 130 | 105 | 155 | Length of spec. PCR product |
|----|-----|----|-----|----|-----|-----|-----|---|
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Tube No. |
| + | | | | | | + | + | *5203, 5210 |
| | | | | | | + | + | *5209 |
| + | | | + | | | | + | *5403, 5616, 5617, 5620 |
| | | | + | | | | | *5509, 5521 |
| + | + | + | | + | | | + | *5801, 5802, 5804, 5807, 5810N- 5815 |
| | | + | | + | | | + | *5805 |
| | | + | | + | | | + | *5806 |
| | | | | + | | | + | *5808 |
| + | + | + | | + | | | + | *5809 |
| | | | | | | + | + | *7805 |
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