

Olerup SSP® HLA-B*35

Product number:	101.522-24/03 – including <i>Taq</i> pol.
Lot number:	58G
Expiry date:	2011-December-01
Number of tests:	24 tests – Product No. 101.522-24 3 tests – Product No. 101.522-03
Number of wells per test:	48
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. 58G.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP®
HLA-B*35 LOT**

The HLA-B*35 low resolution specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP®* HLA-B*35 lot was made (**Lot No.88E**).

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

Well	5'-primer	3'-primer	rationale
1	Modified	-	Increased specificity of primer pair.
7	Added	Added	Exchanged positive control primer pair, primer pair added for the B*3590 allele.
10	Added	Added	Primer pair added for the B*3594 allele.
12	-	Added	Primer added for the B*3592 allele.
18	Added	Added	Exchanged positive control primer pair, primer pair added for the B*3593 allele.
26	Added	-	5'-primer added for increased yield of specific PCR product.
27	Added	Added	Primer pair added for the B*3590 allele.
33	Added	Added	Primer pair added for the B*3594 allele.
41	-	Added	Primer added for the B*3592 allele.
42	Added	Added	Primer pairs added for the B*3591 and B*3597 alleles.
43	Added	Added	Primer pair added for the B*3589 allele.

Changes in revision R01 compared to R00:

1. The B*3502, 3581, 3583 and 3595 and the B*5319 alleles are not amplified by primer mix 5. This has been corrected in the specificity and interpretation tables.

PRODUCT DESCRIPTION

HLA-B*35 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*3501 to B*3599 alleles.

PLATE LAYOUT

Each test consists of 48 PCR reactions in a 48 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

The 48 well cut PCR plate is marked with ‘HLA-B*35’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘58G’.

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.

Please note: When removing each 48 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

Due to the lack of B*35-specific sequence motifs, the interpretation of HLA-B*35 SSP subtypings will be influenced by many other HLA-B alleles. In addition, the A*0141 allele will be weakly amplified by primer mix 11. Furthermore, the Cw*0110 and Cw*0715 alleles will be weakly amplified by primer mix 30, the Cw*0203, Cw*0434 and Cw*0512 alleles will be amplified by primer mix 23, the Cw*0305, Cw*0325 and Cw*0327 alleles by primer mix 28, the Cw*0328, Cw*0349, Cw*0510 and Cw*1508 alleles by primer mix 11, the Cw*0620 allele by primer mix 39, the Cw*070401-070403, the Cw*0711, Cw*0712 and the Cw*0745 alleles weakly by primer mix 47, the Cw*0763 allele by primer mix 10 and weakly by primer mix 47, and the Cw*1509, Cw*1519 and Cw*1520 alleles weakly by primer mix 18.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*35 alleles, i.e. **B*3501 to B*3599**, recognized by the HLA Nomenclature Committee in October 2009¹ will give rise to unique amplification patterns by the primers in the HLA-B*35 subtyping kit.

The HLA-B*35 subtyping kit cannot distinguish the B*350101 to B*350103, 350105 to 350113 alleles, the B*350201 to B*350203, the B*350401 and B*350402, the

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B*350801, B*350802 and B*350804 alleles, the B*351201 and B*351202 alleles or the B*352001 and B*352002 alleles.

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

RESOLUTION IN HOMO- AND HETEROZYGOTES

The 98 HLA-B*35 alleles will give rise to 105 different amplification patterns, that can be combined in 5 565 homozygous and heterozygous combinations. 2472 of these genotypes do not give rise to unique amplification patterns. The different sizes of the specific PCR fragments generated by primer mixes 7, 10, 12, 16-18, 22, 25-27, 30, 31, 33, 35, 36, 38, 41-44 and 46 were not considered in these calculations.

++++++-	-----+	-----+	--+-----	-----	-----+	350403, 3590 = 3512, 3590
++++++-	-----+	-----+	-----	-----	-----+	350403, 3523 = 3512, 3523
++++++-	-----	-----+	--+-----	-----+	-----+	3502, 3590 = 3590, 3595
++++++-	-----	-----+	-----	-----+	-----+	3502, 3523 = 3523, 3595
++++++-	+---+---	-----+	-----	-----+	-----+	3502, 3516 = 3516, 3595
++++++-	+---+---	-----+	--+-----	-----+	-----+	3502, 3558 = 3558, 3595
++++++-	+---+---	-----+	-----	-----+	-----+	351401, 3522 = 3517, 3544
++++++-	+---+---	-----+	-----	-----	-----+	350403, 3566 = 3512, 3566
++++++-	+---+---	+---+---	--+-----	-----	-----+	350403, 3572 = 3512, 3572
++++++-	+---+---	-----+	--+-----	-----	-----+	350403, 3597 = 3512, 3597
++++++-	+---+---	-----+	--+-----	-----	-----+	350403, 3589 = 3512, 3589
++++++-	+---+---	-----+	--+-----	-----	-----+	350403, 3505 = 3505, 3512
++++++-	+---+---	-----+	-----	-----	-----+	350403, 3530 = 3512, 3530
++++++-	+---+---	-----+	-----	-----	-----+	3502, 3566 = 3566, 3595
++++++-	+---+---	-----+	--+-----	-----	-----+	3519, 3522 = 3522, 3577
++++++-	+---+---	+---+---	--+-----	-----	-----+	3504, 3572 = 3520, 3522 = 3522, 3593
++++++-	+---+---	--+---	--+---	-----	-----+	3522, 3529 = 3522, 3576
++++++-	+---+---	-----+	--+---	-----+	-----+	3502, 3597 = 3595, 3597
++++++-	+---+---	-----+	-----	-----+	-----+	3502, 3589 = 3589, 3595
++++++-	+---+---	-----+	--+---	-----+	-----+	3502, 3505 = 3505, 3595
++++++-	+---+---	-----+	--+---	-----+	-----+	3502, 3551 = 3551, 3595
++++++-	+---+---	-----+	--+---	-----	-----+	3522, 3552 = 3522, 3582
++++++-	+---+---	-----+	--+---	-----	-----+	350104, 3522 = 3504, 3505 = 3522, 3530 = 3522, 3557
++++++-	+---+---	-----+	--+---	-----	-----+	3501, 3522 = 3504, 3551
++++++-	+---+---	-----+	-----	-----+	-----+	3502, 3530 = 3530, 3595
++++++-	+---+---	-----+	-----	-----+	-----+	3502, 3517 = 3517, 3595
++++++-	+---+---	-----+	-----	-----+	-----+	350403, 3594 = 3512, 3594
++++++-	+---+---	-----+	-----	-----	-----+	350403, 3507 = 3507, 3512
++++++-	+---+---	-----+	-----	-----+	-----+	3519, 3583 = 3577, 3583
++++++-	+---+---	-----+	-----	-----+	-----+	3520, 3583 = 3583, 3593
++++++-	+---+---	-----+	-----	-----+	-----+	3529, 3583 = 3576, 3583
++++++-	+---+---	-----+	-----	-----+	-----+	3507, 3581 = 3524, 3583
++++++-	+---+---	-----+	-----	-----+	-----+	3502, 3594 = 3571, 3583 = 3583, 3594 = 3594, 3595
++++++-	+---+---	-----+	-----	-----+	-----+	3540N, 3583 = 356801, 3583
++++++-	+---+---	-----+	-----	-----+	-----+	3552, 3583 = 3582, 3583
++++++-	+---+---	-----+	-----	-----+	-----+	3553N, 3583 = 3583, 3591
++++++-	+---+---	-----+	-----	-----+	-----+	350104, 3583 = 3557, 3583
++++++-	+---+---	-----+	-----	-----+	-----+	3501, 3583 = 3502, 3507 = 3507, 3583 = 3507, 3595
++++++-	---+---+	-----+	-----	-----	-----+	350403, 3580 = 3512, 3580
++++++-	---+---+	-----+	-----	-----	-----+	3502, 3580 = 3580, 3595
++++++-	---+---+	-----+	-----	-----	-----+	350403, 3545 = 3512, 3545
++++++-	---+---+	-----+	-----	-----	-----+	3502, 3561 = 3561, 3595

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+++++--	--+---	-----+	-----	-----	-----++	350403,350803 =
						350803,3512
+++++--	--+---	-----+	-----	-----	-----++	3504,3561 = 350403,3508 =
						350403,3561 = 3508,3512
+++++--	--+---	-----+	-----	+-----	-----++	3502,3545 = 3545,3595
+++++--	--+---	-----+	-----	-----	-----++	3502,350803 = 350803,3595
+++++--	--+---	-----+	-----	-----	-----++	3502,3508 = 3508,3595
+++++--	-----+	-----	-----	-----	-----++	350403,3528 = 3512,3528
+++++--	-----+	-----	-----	-----	-----++	350403,3569 = 3512,3569
+++++--	-----+	-----	-----	-----	-----++	350403,3592 = 3512,3592
+++++--	-----+	-----	-----	-----	-----++	350403,3510 = 3510,3512
+++++--	-----+	-----	-----	-----	-----++	3502,3569 = 3569,3595
+++++--	-----+	-----	-----	-----	-----++	3502,3592 = 3592,3595
+++++--	-----+	-----	-----	-----	-----++	3502,3510 = 3510,3595
+++++--	-----+	-----	-----	-----	-----++	3519,3544 = 3544,3577
+++++--	-----+	-----	-----	-----	-----++	3520,3544 = 3544,3593
+++++--	-----+	-----	-----	-----	-----++	3529,3544 = 3544,3576
+++++--	-----+	-----	-----	-----	-----++	3502,3521 = 3511,3581 =
						3521,3581 = 3521,3595
+++++--	-----+	-----	-----	-----	-----++	3544,3552 = 3544,3582
+++++--	-----+	-----	-----	-----	-----++	350104,3544 = 3544,3557
+++++--	-----+	-----	-----	-----	-----++	3502,351401 = 351401,3595
+++++--	-----+	-----	-----	-----	-----++	3502,3511 = 3511,3595
+++++--	-----+	-----	-----	-----	-----++	3511,3544 = 351401,3544 =
						3544,3562
+++++--	-----+	-----	-----	-----	-----++	350403,3515 = 3512,3515
+++++--	-----+	-----	-----	-----	-----++	350403,3547 = 3512,3547
+++++--	-----+	-----	-----	-----	-----++	350403,3519 = 350403,3577
						= 3512,3519 = 3512,3577
+++++--	-----+	-----	-----	-----	-----++	350403,3526 = 3512,3526
+++++--	-----+	-----	-----	-----	-----++	350403,3535 = 3512,3535
+++++--	-----+	-----	-----	-----	-----++	350403,3520 = 350403,3593
						= 3512,3520 = 3512,3593
+++++--	-----+	-----	-----	-----	-----++	350403,3529 = 350403,3576
						= 3512,3529 = 3512,3576
+++++--	-----+	-----	-----	-----	-----++	350403,3525 = 3512,3525
+++++--	-----+	-----	-----	-----	-----++	350403,3546 = 3512,3546
+++++--	-----+	-----	-----	-----	-----++	350403,3524 = 3512,3524
+++++--	-----+	-----	-----	-----	-----++	350403,3527 = 3512,3527
+++++--	-----+	-----	-----	-----	-----++	350403,3550 = 3512,3550
+++++--	-----+	-----	-----	-----	-----++	350403,3542 = 3512,3542
+++++--	-----+	-----	-----	-----	-----++	350403,3541 = 3512,3541
+++++--	-----+	-----	-----	-----	-----++	350403,356802 =
						3512,356802
+++++--	-----+	-----	-----	-----	-----++	350403,3537 = 3512,3537
+++++--	-----+	-----	-----	-----	-----++	350403,3549 = 3512,3549
+++++--	-----+	-----	-----	-----	-----++	350403,3571 = 3512,3571
+++++--	-----+	-----	-----	-----	-----++	350403,3548 = 3512,3548
+++++--	-----+	-----	-----	-----	-----++	350403,3540N =
						350403,356801 =
						3512,3540N = 3512,356801
+++++--	-----+	-----	-----	-----	-----++	350403,3563 = 3512,3563
+++++--	-----+	-----	-----	-----	-----++	350403,3552 = 350403,3582
						= 3512,3552 = 3512,3582
+++++--	-----+	-----	-----	-----	-----++	350403,3553N =
						350403,3591 = 3512,3553N
						= 3512,3591
+++++--	-----+	-----	-----	-----	-----++	350403,3554 = 3512,3554
+++++--	-----+	-----	-----	-----	-----++	350403,3578 = 3512,3578
+++++--	-----+	-----	-----	-----	-----++	350104,350403 =
						350104,3512 = 350403,3557
						= 3512,3557
+++++--	-----+	-----	-----	-----	-----++	3501,350403 = 3501,3512
+++++--	-----+	-----	-----	-----	-----++	3502,3515 = 3515,3595
+++++--	-----+	-----	-----	-----	-----++	3519,3581 = 3577,3581

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+++++--	-----+	-----+	-----	+-----	-----+	3502,3547 = 3547,3595
+++++--	-----+	-----+	-----	-----+	-----+	3502,3519 = 3502,3577 =
						3519,3595 = 3577,3595
+++++--	-----+	-----+	-----	-----	-----+	3504,3519 = 3504,3577
+++++--	-----	-+-----	-----	-----+	-----+	3520,3581 = 3581,3593
+++++--	-----	-+-----	-----	-----+	-----+	3502,3535 = 3535,3595
+++++--	-----	-+-----	-----	-----+	-----+	3502,3520 = 3502,3593 =
						3593,3595
+++++--	-----	-+-----	-----	-----	-----+	3504,3520 = 3504,3593
+++++--	-----	-+-----	-----	-----+	-----+	3529,3581 = 3576,3581
+++++--	-----	-+-----	-----	-----+	-----+	3502,3529 = 3502,3576 =
						3529,3595
+++++--	-----	-+-----	-----	-----	-----+	3504,3529 = 3504,3576
+++++--	-----	-----+	-----	-----+	-----+	3502,3525 = 3525,3595
+++++--	-----	-----+	-----	-----+	-----+	3540N,3581 = 356801,3581
+++++--	-----	-----+	-----	-----+	+-----	3552,3581 = 3581,3582
+++++--	-----	-----+	-----	-----+	+-----	3553N,3581 = 3581,3591
+++++--	-----	-----+	-----	-----+	-----+	350104,3581 = 3502,3546 =
						3546,3581 = 3546,3595 =
						3557,3581
+++++--	-----	-----+	-----	-----+	-----+	3501,3581 = 3502,3524 =
						3524,3581 = 3524,3595
+++++--	-----	-----+	+-----	-----+	-----+	3502,3527 = 3527,3595
+++++--	-----	-----+	-+-----	-----+	-----+	3502,3550 = 3550,3595
+++++--	-----	-----+	+-----	-----+	-----+	3502,3542 = 3542,3595
+++++--	-----	-----+	-+-----	-----+	-----+	3502,3541 = 3541,3595
+++++--	-----	-----+	-+-----	-----+	-----+	3502,356802 = 356802,3595
+++++--	-----	-----+	-+-----	-----+	-----+	3502,3532 = 3532,3595
+++++--	-----	-----+	-+-----	-----+	-----+	3502,3537 = 3537,3595
+++++--	-----	-----+	-+-----	-----+	-----+	3502,3549 = 3549,3595
+++++--	-----	-----+	-----	+-----	-----+	3502,3571 = 3571,3595
+++++--	-----	-----+	-----	+-----	-----+	3502,3548 = 3548,3595
+++++--	-----	-----+	-----	-+-----	-----+	3502,3540N = 3502,356801
						= 3540N,3595 =
						356801,3595
+++++--	-----	-----+	-----	-+-----	-----+	3504,3540N = 3504,356801
+++++--	-----	-----+	-----	-----+	-----+	3502,3562 = 3562,3595
+++++--	-----	-----+	-----	-----+	+-----	3502,3552 = 3502,3582 =
						3552,3595
+++++--	-----	-----+	-----	-----+	+-----	3502,3553N = 3502,3591 =
						3553N,3595 = 3591,3595
+++++--	-----	-----+	-----	-----+	-+-----	3502,3554 = 3554,3595
+++++--	-----	-----+	-----	-----+	-----+	350104,3502 = 350104,3595
						= 3502,3557 = 3557,3595
+++++--	-----	-----+	-----	-----+	-----+	3501,3502 = 3501,3595
+++++--	-----	-----+	-----	-----	+-----	3504,3552 = 3504,3582
+++++--	-----	-----+	-----	-----	+-----	3504,3553N = 3504,3591
+++++--	-----	-----+	-----	-----	-----+	350104,3504 = 3504,3557
+++++--	+-----	-----+	-----	-----+	-----+	3517,3560 = 3530,3560
+++++--	-+-----	-----+	-----	-----	-----+	3506,3561 = 3508,3559
+++++--	-+-----	-----+	-----	-----	-----+	3508,3560 = 350803,3560
+++++--	-----+	-----+	-----	-----	-----+	3519,3559 = 3559,3577
+++++--	-----+	-+-----	-----	-----	-----+	3520,3559 = 3559,3593
+++++--	-----+	-+-----	-----	-----	-----+	3529,3559 = 3559,3576
+++++--	-----+	-----+	-----	-+-----	-----+	3540N,3559 = 3559,356801
+++++--	-----+	-----+	-----	-----	+-----	3552,3559 = 3559,3582
+++++--	-----+	-----+	-----	-----	+-----	3553N,3559 = 3559,3591
+++++--	-----+	-----+	-----	-----	-----+	350104,3559 = 3557,3559
+++++--	-----+	-----+	-----	-----	-----+	3519,3560 = 3560,3577
+++++--	-----+	-----+	-----	-----	-----+	3506,3519 = 3506,3577
+++++--	-----	-+-----	-----	-----	-----+	3520,3560 = 3560,3593
+++++--	-----	-+-----	-----	-----	-----+	3506,3520 = 3506,3593
+++++--	-----	-+-----	-----	-----	-----+	3529,3560 = 3560,3576
+++++--	-----	-+-----	-----	-----	-----+	3506,3529 = 3506,3576
+++++--	-----	-----+	-----	-----	-----+	3524,3560 = 3546,3560

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+++++--	-----	-----+	-----	---+-----	-----++	3506,3540N = 3506,356801
+++++--	-----	-----+	-----	---+-----	++++++	3552,3560 = 3560,3582
+++++--	-----	-----+	-----	---+-----	-----++	3501,3560 = 350104,3560
+++++--	-----	-----+	-----	-----	---+-----	3506,3552 = 3506,3582
+++++--	-----	-----+	-----	-----	---+-----	3506,3553N = 3506,3591
+++++--	-----	-----+	-----	-----	---+-----	350104,3506 = 3506,3557
+++++--	-----	-----+	-----	-----	---+-----	350901,3530 = 3530,3587
+++++--	-----	-----+	-----	-----	---+-----	350902,3580 = 3510,3518 = 3518,3580
+++++--	-----	-----+	-----	-----	---+-----	3508,3588 = 3561,3588
+++++--	-----	-----+	-----	-----	---+-----	350902,3561 = 3518,3561
+++++--	-----	-----+	-----	-----	---+-----	3518,3519 = 3518,3577
+++++--	-----	-----+	-----	-----	---+-----	3518,3520 = 3518,3593
+++++--	-----	-----+	-----	-----	---+-----	3518,3529 = 3518,3576
+++++--	-----	-----+	-----	-----	---+-----	3508,3531 = 350803,3531
+++++--	-----	-----+	-----	-----	---+-----	350902,3545 = 3518,3545 = 3518,3571
+++++--	-----	-----+	-----	-----	---+-----	3518,3552 = 3518,3582
+++++--	-----	-----+	-----	-----	---+-----	350104,3518 = 350803,350902 = 350803,3518 = 3518,3557
+++++--	-----	-----+	-----	-----	---+-----	3501,3518 = 3508,350902 = 3508,3518 = 3518,3527
+++++--	-----	-----+	-----	-----	---+-----	3508,3587 = 350803,350901 = 350803,3587
+++++--	-----	-----+	-----	-----	---+-----	3519,3588 = 3577,3588
+++++--	-----	-----+	-----	-----	---+-----	3520,3588 = 3588,3593
+++++--	-----	-----+	-----	-----	---+-----	3529,3588 = 3576,3588
+++++--	-----	-----+	-----	-----	---+-----	3552,3588 = 3582,3588
+++++--	-----	-----+	-----	-----	---+-----	350104,3588 = 3557,3588
+++++--	-----	-----+	-----	-----	---+-----	3501,3588 = 3527,3588
+++++--	-----	-----+	-----	-----	---+-----	3519,3531 = 3531,3577
+++++--	-----	-----+	-----	-----	---+-----	350902,3519 = 350902,3577
+++++--	-----	-----+	-----	-----	---+-----	3519,3587 = 3577,3587
+++++--	-----	-----+	-----	-----	---+-----	350901,3519 = 350901,3577
+++++--	-----	-----+	-----	-----	---+-----	3520,3531 = 3531,3593
+++++--	-----	-----+	-----	-----	---+-----	350902,3520 = 350902,3593
+++++--	-----	-----+	-----	-----	---+-----	350901,3535 = 3535,3587
+++++--	-----	-----+	-----	-----	---+-----	3520,3587 = 3587,3593
+++++--	-----	-----+	-----	-----	---+-----	350901,3520 = 350901,3593
+++++--	-----	-----+	-----	-----	---+-----	3529,3531 = 3531,3576
+++++--	-----	-----+	-----	-----	---+-----	350902,3529 = 350902,3576
+++++--	-----	-----+	-----	-----	---+-----	3529,3587 = 3576,3587
+++++--	-----	-----+	-----	-----	---+-----	350901,3529 = 350901,3576
+++++--	-----	-----+	-----	-----	---+-----	3524,3531 = 3531,3546
+++++--	-----	-----+	-----	-----	---+-----	3531,3552 = 3531,3582
+++++--	-----	-----+	-----	-----	---+-----	3501,3531 = 350104,3531 = 3527,3531
+++++--	-----	-----+	-----	-----	---+-----	350901,3546 = 3524,3587 = 3546,3587
+++++--	-----	-----+	-----	-----	---+-----	350902,3552 = 350902,3582
+++++--	-----	-----+	-----	-----	---+-----	350104,350902 = 350902,3557
+++++--	-----	-----+	-----	-----	---+-----	3501,350902 = 350902,3527
+++++--	-----	-----+	-----	-----	---+-----	3552,3587 = 3582,3587
+++++--	-----	-----+	-----	-----	---+-----	350901,3552 = 350901,3582
+++++--	-----	-----+	-----	-----	---+-----	3501,3587 = 350104,350901 = 350104,3587 = 350901,3557
+++++--	-----	-----+	-----	-----	---+-----	3508,3539 = 3534,3561
+++++--	-----	-----+	-----	-----	---+-----	351401,3539 = 351402,3539
+++++--	-----	-----+	-----	-----	---+-----	351401,3534 = 351402,3534
+++++--	-----	-----+	-----	-----	---+-----	3519,3539 = 3539,3577
+++++--	-----	-----+	-----	-----	---+-----	3520,3539 = 3539,3593
+++++--	-----	-----+	-----	-----	---+-----	3529,3539 = 3539,3576

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+++++---	-----+	-----+	-----+	-----+	-----+	3539, 3540N = 3539, 356801
+++++---	-----+	-----+	-----+	-----+	-----+	3539, 3552 = 3539, 3582
+++++---	-----+	-----+	-----+	-----+	-----+	3539, 3553N = 3539, 3591
+++++---	-----+	-----+	-----+	-----+	-----+	350104, 3539 = 3539, 3557
+++++---	-----+	-----+	-----+	-----+	-----+	3519, 3534 = 3534, 3577
+++++---	-----+	-----+	-----+	-----+	-----+	3520, 3534 = 3534, 3593
+++++---	-----+	-----+	-----+	-----+	-----+	3529, 3534 = 3534, 3576
+++++---	-----+	-----+	-----+	-----+	-----+	3534, 3540N = 3534, 356801
+++++---	-----+	-----+	-----+	-----+	-----+	3534, 3552 = 3534, 3582
+++++---	-----+	-----+	-----+	-----+	-----+	3534, 3553N = 3534, 3591
+++++---	-----+	-----+	-----+	-----+	-----+	350104, 3534 = 3534, 3557
+++++---	-----+	-----+	-----+	-----+	-----+	351401, 3584 = 351402, 3584
+++++---	-----+	-----+	-----+	-----+	-----+	3519, 3584 = 3577, 3584
+++++---	-----+	-----+	-----+	-----+	-----+	3520, 3584 = 3584, 3593
+++++---	-----+	-----+	-----+	-----+	-----+	3529, 3584 = 3576, 3584
+++++---	-----+	-----+	-----+	-----+	-----+	3540N, 3584 = 356801, 3584
+++++---	-----+	-----+	-----+	-----+	-----+	3552, 3584 = 3582, 3584
+++++---	-----+	-----+	-----+	-----+	-----+	3553N, 3584 = 3584, 3591
+++++---	-----+	-----+	-----+	-----+	-----+	350104, 3584 = 3557, 3584
+++++---	-----+	-----+	-----+	-----+	-----+	3501, 3584 = 3523, 3584 = 3541, 3584 = 3542, 3584 = 3550, 3584 = 3584, 3590
+++++---	-----+	-----+	-----+	-----+	-----+	350301, 3590 = 350302, 3590 = 3575, 3590
+++++---	-----+	-----+	-----+	-----+	-----+	350301, 3523 = 350302, 3523 = 3523, 3575
+++++---	-----+	-----+	-----+	-----+	-----+	351401, 3590 = 351402, 3590
+++++---	-----+	-----+	-----+	-----+	-----+	351401, 3523 = 351402, 3523
+++++---	-----+	-----+	-----+	-----+	-----+	3519, 3590 = 3577, 3590
+++++---	-----+	-----+	-----+	-----+	-----+	3519, 3523 = 3523, 3577
+++++---	-----+	-----+	-----+	-----+	-----+	3520, 3590 = 3590, 3593
+++++---	-----+	-----+	-----+	-----+	-----+	3520, 3523 = 3523, 3593
+++++---	-----+	-----+	-----+	-----+	-----+	3529, 3590 = 3576, 3590
+++++---	-----+	-----+	-----+	-----+	-----+	3523, 3529 = 3523, 3576
+++++---	-----+	-----+	-----+	-----+	-----+	3540N, 3590 = 356801, 3590
+++++---	-----+	-----+	-----+	-----+	-----+	3552, 3590 = 3582, 3590
+++++---	-----+	-----+	-----+	-----+	-----+	3553N, 3590 = 3590, 3591
+++++---	-----+	-----+	-----+	-----+	-----+	350104, 3590 = 3557, 3590
+++++---	-----+	-----+	-----+	-----+	-----+	3501, 3590 = 3523, 3541 = 3523, 3590 = 3541, 3590 = 3590, 3590
+++++---	-----+	-----+	-----+	-----+	-----+	3523, 3540N = 3523, 356801
+++++---	-----+	-----+	-----+	-----+	-----+	3523, 3552 = 3523, 3582
+++++---	-----+	-----+	-----+	-----+	-----+	3523, 3553N = 3523, 3591
+++++---	-----+	-----+	-----+	-----+	-----+	350104, 3523 = 3523, 3557
+++++---	-----+	-----+	-----+	-----+	-----+	3501, 3523 = 3523, 3523
+++++---	-----+	-----+	-----+	-----+	-----+	3513, 3530 = 3516, 3598
+++++---	-----+	-----+	-----+	-----+	-----+	350301, 3516 = 350302, 3516 = 3513, 3517 = 3516, 3575
+++++---	-----+	-----+	-----+	-----+	-----+	3551, 3596 = 3558, 3596
+++++---	-----+	-----+	-----+	-----+	-----+	350301, 3558 = 350302, 3558 = 3558, 3598
+++++---	-----+	-----+	-----+	-----+	-----+	350301, 3566 = 350302, 3566 = 3530, 3533 = 3533, 3566 = 3566, 3598
+++++---	-----+	-----+	-----+	-----+	-----+	350301, 3572 = 350302, 3572
+++++---	-----+	-----+	-----+	-----+	-----+	350301, 3597 = 350302, 3597 = 3505, 3565Q = 3565Q, 3597 = 3597, 3598
+++++---	-----+	-----+	-----+	-----+	-----+	350301, 3589 = 350302, 3589 = 3589, 3598
+++++---	-----+	-----+	-----+	-----+	-----+	350301, 3505 = 350302, 3505 = 3505, 3598 = 3551, 3598
+++++---	-----+	-----+	-----+	-----+	-----+	350301, 3551 = 350302, 3551

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++++---+	+-----	-----+	-----	-----	-----++	350301, 3530 = 350302, 3530 = 3517, 3598 = 3530, 3575 = 3530, 3598
++++---+	+-----	-----+	-----	-----	-----++	350301, 3517 = 350302, 3517 = 3517, 3575
++++---+	+-----	-----+	-----	+-----	-----++	350301, 3594 = 350302, 3594 = 3575, 3594
++++---+	+-----	-----+	-----	-----	-----++	350301, 3507 = 350302, 3507 = 3507, 3575
++++---+	---+---	-----+	-----	-----	-----++	350803, 3513 = 3580, 3598
++++---+	---+---	-----+	-----	-----	-----++	350301, 3580 = 350302, 3580 = 3508, 3513 = 3575, 3580
++++---+	---+---	-----+	-----	-----	-----++	3508, 3596 = 350803, 3596
++++---+	---+---	-----+	-----	-----	-----++	350301, 3561 = 350302, 3561 = 3561, 3575
++++---+	---+---	-----+	-----	+-----	-----++	350301, 3545 = 350302, 3545 = 3545, 3575
++++---+	---+---	-----+	-----	-----	-----++	350301, 350803 = 350302, 350803 = 3508, 3598 = 350803, 3575 = 350803, 3598
++++---+	---+---	-----+	-----	-----	-----++	350301, 3508 = 350302, 3508 = 3508, 3575
++++---+	---+---	-----+	-----	-----+	-----++	3513, 351401 = 3513, 351402
++++---+	---+---	-----+	-----	-----	-----++	3510, 3533 = 3513, 3515
++++---+	---+---	---+---	-----	-----	-----++	350301, 3528 = 350302, 3528 = 3513, 3520 = 3513, 3593 = 3528, 3575
++++---+	---+---	---+---	-----	-----	-----++	350301, 3569 = 350302, 3569 = 3513, 3529 = 3569, 3574 = 3569, 3575
++++---+	---+---	-----+	+-----	-----	-----++	3510, 3556 = 3513, 3527
++++---+	---+---	-----+	-----	---+---	-----++	3513, 3540N = 3513, 356801
++++---+	---+---	-----+	-----	-----	---+---	350301, 3592 = 350302, 3592 = 3510, 3585 = 3513, 3552 = 3513, 3582 = 3513, 3592 = 3575, 3592 = 3585, 3592
++++---+	---+---	-----+	-----	-----	---+---	3510, 3565Q = 3513, 3553N = 3513, 3591
++++---+	---+---	-----+	-----	-----	---+---	3510, 3555 = 3513, 3578
++++---+	---+---	-----+	-----	-----	---+---	350104, 3513 = 3510, 3598 = 3513, 3557
++++---+	---+---	-----+	-----	-----	---+---	3501, 3513 = 350301, 3510 = 350302, 3510 = 3510, 3575
++++---+	---+---	---+---	-----	-----	---+---	351401, 3533 = 351402, 3533 = 3533, 3586
++++---+	---+---	---+---	-----	-----	---+---	3519, 3596 = 3577, 3596
++++---+	---+---	+-----	-----	-----	---+---	351401, 3536 = 351402, 3536
++++---+	---+---	---+---	-----	-----	---+---	3520, 3596 = 3593, 3596
++++---+	---+---	---+---	-----	-----	---+---	3529, 3596 = 3576, 3596
++++---+	---+---	---+---	-----	-----	---+---	351401, 3574 = 351402, 3574
++++---+	---+---	---+---	-----	---+---	---+---	3540N, 3596 = 356801, 3596
++++---+	---+---	---+---	-----	-----	---+---	3552, 3596 = 3582, 3596
++++---+	---+---	---+---	-----	-----	---+---	3553N, 3596 = 3591, 3596
++++---+	---+---	---+---	-----	-----	---+---	3501, 3596 = 350104, 3596 = 3521, 3598 = 3524, 3596 = 3546, 3596 = 3557, 3596
++++---+	---+---	---+---	-----	-----	---+---	350301, 3521 = 350302, 3521 = 3521, 3575
++++---+	---+---	---+---	---+---	-----	---+---	3543, 3596 = 3567, 3596
++++---+	---+---	---+---	---+---	-----	---+---	3532, 3596 = 3596, 3599
++++---+	---+---	---+---	-----	-----	---+---	351401, 3596 = 351402, 3596 = 3562, 3596
++++---+	---+---	---+---	-----	-----	---+---	3511, 3596 = 3521, 3596
++++---+	---+---	---+---	+-----	-----	---+---	351401, 3556 = 351402, 3556

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++++---+	----+---	-----+-	---+----	---+---+	-----++	350301,3579 = 3543,3570 = 3570,3579 = 3579,3598
++++---+	----+---	-----+-	---+----	-----+-	-----++	350301,3543 = 3543,3598 = 3567,3598
++++---+	----+---	-----+-	-----	---+---+	-----++	351401,3570 = 351402,3570
++++---+	----+---	-----+-	-----	-----+-	+---+---	351401,3585 = 351402,3585
++++---+	----+---	-----+-	-----	-----+-	-+---+	351401,3565Q = 351402,3565Q
++++---+	----+---	-----+-	-----	-----+-	-----++	351401,3555 = 351402,3555
++++---+	----+---	-----+-	-----	-----+-	-----++	351401,3598 = 351402,3598
++++---+	----+---	-----+-	-----	-----+-	-----++	350301,351401 = 350301,351402 = 350302,351401 = 351401,3575 = 351402,3575
++++---+	----+---	-----+-	-----	-----	-----++	350301,3511 = 350302,3511 = 3511,3575
++++---+	----+---	-----+-	-----	-----+-	-----++	351401,3538 = 351402,3538
++++---+	-----++	-----+-	-----+-	-----	-----++	3519,3533 = 3533,3577
++++---+	-----+-	+-----+	-----+-	-----	-----++	3515,3536 = 3526,3533
++++---+	-----+-	-+-----	-----+-	-----	-----++	3520,3533 = 3533,3593
++++---+	-----+-	--+-----	-----++	-----	-----++	3529,3533 = 3533,3576
++++---+	-----+-	-----+-	+-----+	-----	-----++	3515,3556 = 3527,3533
++++---+	-----+-	-----+-	-----+-	--+-----	-----++	3533,3540N = 3533,356801
++++---+	-----+-	-----+-	-----+-	-----	+---+---	3515,3585 = 3533,3552 = 3533,3582
++++---+	-----+-	-----+-	-----+-	-----	-+---+	3515,3565Q = 3533,3553N = 3533,3591
++++---+	-----+-	-----+-	-----+-	-----	-----++	3515,3555 = 3533,3578
++++---+	-----+-	-----+-	-----+-	-----	-----++	350104,3533 = 3515,3598 = 3533,3557
++++---+	-----+-	-----+-	-----+-	-----	-----++	3501,3533 = 350301,3515 = 350302,3515 = 3515,3533 = 3515,3575 = 3533,3549
++++---+	-----++	+-----+-	-----	-----	-----++	3519,3536 = 3536,3577
++++---+	-----++	--+-----	-----	-----	-----++	3519,3574 = 3574,3577
++++---+	-----++	-----+-	+-----+	-----	-----++	3519,3556 = 3556,3577
++++---+	-----++	-----+-	-----	+-----	-----++	350301,3547 = 350302,3547 = 3547,3575
++++---+	-----++	-----+-	-----	---+----	-----++	3519,3570 = 3570,3577
++++---+	-----++	-----+-	-----	-----	+---+---	3519,3585 = 3577,3585
++++---+	-----++	-----+-	-----	-----	-+---+	3519,3565Q = 3565Q,3577
++++---+	-----++	-----+-	-----	-----	-----++	3519,3555 = 3555,3577
++++---+	-----++	-----+-	-----	-----	-----++	3519,3598 = 3577,3598
++++---+	-----++	-----+-	-----	-----	-----++	3519,3538 = 3538,3577
++++---+	-----++	-----+-	-----	-----	-----++	350301,3519 = 350301,3577 = 350302,3519 = 350302,3577 = 3519,3575 = 3575,3577
++++---+	-----	+-----+-	-----	-----	-----++	3520,3536 = 3536,3593
++++---+	-----	+-----+-	-----+-	-----	-----++	3529,3536 = 3536,3576
++++---+	-----	+-----+-	-----+-	-----	-----++	350301,3526 = 350302,3526 = 3526,3536 = 3526,3575 = 3536,3549
++++---+	-----	+-----+-	-----	--+-----	-----++	3536,3540N = 3536,356801
++++---+	-----	+-----+-	-----	-----	+---+---	3536,3552 = 3536,3582
++++---+	-----	+-----+-	-----	-----	-+---+	3536,3553N = 3536,3591
++++---+	-----	+-----+-	-----	-----	-----++	350104,3536 = 3536,3557
++++---+	-----	--+-----	-----	-----	-----++	3520,3574 = 3574,3593
++++---+	-----	-+-----	+-----	-----	-----++	3520,3556 = 3556,3593
++++---+	-----	-+-----	-----	---+----	-----++	350301,3535 = 350302,3535 = 3535,3570 = 3535,3575 = 3535,3598
++++---+	-----	-+-----	-----	---+----	-----++	3520,3570 = 3570,3593
++++---+	-----	+-----+-	-----	-----	+---+---	3520,3565Q = 3565Q,3593
++++---+	-----	+-----+-	-----	-----	-----++	3520,3555 = 3555,3593

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++++---+	-----	-+-----	-----	-----	-----++	3520, 3598 = 3593, 3598
++++---+	-----	-+-----	-----	-----	-----++	3520, 3538 = 3538, 3593
++++---+	-----	-+-----	-----	-----	-----++	350301, 3520 = 350301, 3593
						= 350302, 3520 =
						350302, 3593 = 3520, 3575 =
						3575, 3593
++++---+	-----	-+-----	+-----+	-----	-----++	3529, 3556 = 3556, 3576
++++---+	-----	-+-----	+-----+	-----	-----++	3529, 3570 = 3570, 3576
++++---+	-----	-+-----	+-----+	-----	-+-----	3529, 3565Q = 3565Q, 3576
++++---+	-----	-+-----	+-----+	-----	-----++	3529, 3555 = 3555, 3576
++++---+	-----	-+-----	+-----+	-----	-----++	3529, 3598 = 3576, 3598
++++---+	-----	-+-----	+-----+	-----	-----++	3529, 3538 = 3538, 3576
++++---+	-----	-+-----	+-----+	-----	-----++	350301, 3529 = 350301, 3576
						= 350302, 3529 =
						350302, 3576 = 3529, 3574 =
						3529, 3575 = 3574, 3576 =
						3575, 3576
++++---+	-----	-+-----	-----	-+-----	-----++	3540N, 3574 = 356801, 3574
++++---+	-----	-+-----	-----	-----	+-----++	3552, 3574 = 3574, 3582
++++---+	-----	-+-----	-----	-----	-+-----	3553N, 3574 = 3574, 3591
++++---+	-----	-+-----	-----	-----	-----++	350104, 3574 = 3557, 3574
++++---+	-----	-+-----	-----	-----	-----++	350301, 3525 = 350302, 3525
						= 3525, 3575
++++---+	-----	-+-----	-----	-----	-----++	350301, 3546 = 350302, 3546
						= 3524, 3598 = 3546, 3575 =
						3546, 3598
++++---+	-----	-+-----	-----	-----	-----++	350301, 3524 = 350302, 3524
						= 3524, 3575
++++---+	-----	-+-----	+-----	-+-----	-----++	3540N, 3556 = 3556, 356801
++++---+	-----	-+-----	+-----	-+-----	-----++	350301, 3564 = 3556, 3564
++++---+	-----	-+-----	+-----	-----	+-----++	3527, 3585 = 3552, 3556 =
						3556, 3582
++++---+	-----	-+-----	+-----	-----	-+-----	3527, 3565Q = 3553N, 3556 =
						3556, 3591
++++---+	-----	-+-----	+-----	-----	-----++	3527, 3555 = 3556, 3578
++++---+	-----	-+-----	+-----	-----	-----++	350104, 3556 = 3527, 3598 =
						3556, 3557
++++---+	-----	-+-----	+-----	-----	-----++	3501, 3556 = 350301, 3527 =
						350302, 3527 = 3527, 3556 =
						3527, 3575
++++---+	-----	-+-----	-+-----	-----	-----++	350301, 3550 = 350302, 3550
						= 3550, 3575
++++---+	-----	-+-----	-+-----	-----	-----++	350301, 3542 = 350302, 3542
						= 3542, 3575
++++---+	-----	-+-----	-+-----	-----	-----++	350301, 3541 = 350302, 3541
						= 3541, 3575
++++---+	-----	-+-----	-+-----	-----	-----++	350301, 356802 =
						350302, 356802 = 3532, 3598
						= 356802, 3598
++++---+	-----	-+-----	-+-----	-----	-----++	350301, 3532 = 350302, 3532
++++---+	-----	-+-----	-+-----	-----	-----++	350301, 3537 = 350302, 3537
++++---+	-----	-+-----	-+-----	-----	-----++	350301, 3549 = 350302, 3549
						= 3549, 3575
++++---+	-----	-+-----	-+-----	+-----	-----++	350301, 3571 = 350302, 3571
						= 3571, 3575
++++---+	-----	-+-----	-+-----	-+-----	-----++	350301, 3548 = 350302, 3548
						= 3548, 3575
++++---+	-----	-+-----	-+-----	-+-----	-----++	3540N, 3570 = 356801, 3570
++++---+	-----	-+-----	-+-----	-+-----	+-----++	3540N, 3585 = 356801, 3585
++++---+	-----	-+-----	-+-----	-+-----	-+-----	3540N, 3565Q =
						3565Q, 356801
++++---+	-----	-+-----	-+-----	-+-----	-----++	3540N, 3555 = 3555, 356801
++++---+	-----	-+-----	-+-----	-+-----	-----++	3540N, 3598 = 356801, 3598
++++---+	-----	-+-----	-+-----	-+-----	-----++	3538, 3540N = 3538, 356801

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++++---+	-----	-----+	-----	---+-----	-----++	350301, 3540N =
						350301, 356801 =
						350302, 3540N =
						350302, 356801 =
						3540N, 3575
++++---+	-----	-----+	-----	---+-----	++++---+	3552, 3570 = 3570, 3582
++++---+	-----	-----+	-----	---+-----	++++---+	3553N, 3570 = 3570, 3591
++++---+	-----	-----+	-----	---+-----	++++---+	350104, 3570 = 3557, 3570
++++---+	-----	-----+	-----	---+-----	++++---+	350301, 3562 = 350302, 3562
						= 3562, 3575
++++---+	-----	-----+	-----	---+-----	++++---+	350301, 3563 = 350302, 3563
						= 3563, 3575
++++---+	-----	-----+	-----	---+-----	++++---+	3552, 3565Q = 3553N, 3585 =
						3565Q, 3582 = 3585, 3591
++++---+	-----	-----+	-----	---+-----	++++---+	3552, 3555 = 3555, 3582
++++---+	-----	-----+	-----	---+-----	++++---+	350104, 3585 = 3552, 3598 =
						3557, 3585 = 3582, 3598
++++---+	-----	-----+	-----	---+-----	++++---+	3538, 3552 = 3538, 3582
++++---+	-----	-----+	-----	---+-----	++++---+	3501, 3585 = 350301, 3552 =
						350301, 3582 = 350302, 3552
						= 350302, 3582 = 3552, 3575
						= 3552, 3585 = 3575, 3582
++++---+	-----	-----+	-----	---+-----	++++---+	3553N, 3555 = 3555, 3591 =
						3565Q, 3578
++++---+	-----	-----+	-----	---+-----	++++---+	350104, 3565Q = 3553N, 3598
						= 3557, 3565Q = 3591, 3598
++++---+	-----	-----+	-----	---+-----	++++---+	3538, 3553N = 3538, 3591
++++---+	-----	-----+	-----	---+-----	++++---+	3501, 3565Q = 350301, 3553N
						= 350301, 3591 =
						350302, 3553N =
						350302, 3591 = 3553N, 3565Q
						= 3565Q, 3591 = 3575, 3591
++++---+	-----	-----+	-----	---+-----	++++---+	350301, 3554 = 350302, 3554
						= 3554, 3575
++++---+	-----	-----+	-----	---+-----	++++---+	350104, 3555 = 3555, 3557 =
						3578, 3598
++++---+	-----	-----+	-----	---+-----	++++---+	3501, 3555 = 350301, 3578 =
						350302, 3578 = 3555, 3578 =
						3575, 3578
++++---+	-----	-----+	-----	---+-----	++++---+	350104, 3538 = 3538, 3557
++++---+	-----	-----+	-----	---+-----	++++---+	3501, 3598 = 350104, 350301
						= 350104, 350302 =
						350104, 3575 = 350104, 3598
						= 350301, 3557 =
						350302, 3557 = 3557, 3575 =
						3557, 3598
++++---+	-----	-----+	-----	---+-----	++++---+	3501, 350301 = 3501, 350302
						= 3501, 3575
++++---+	++++---+	-----+	-----	---+-----	++++---+	350803, 3516 = 3530, 3580
++++---+	++++---+	-----+	-----	---+-----	++++---+	3508, 3516 = 3517, 3580
++++---+	++++---+	-----+	-----	---+-----	++++---+	3508, 3558 = 350803, 3558
++++---+	++++---+	-----+	-----	---+-----	++++---+	3508, 3566 = 350803, 3566
++++---+	++++---+	-----+	-----	---+-----	++++---+	3508, 3597 = 350803, 3597
++++---+	++++---+	-----+	-----	---+-----	++++---+	3508, 3589 = 350803, 3589
++++---+	++++---+	-----+	-----	---+-----	++++---+	3505, 3508 = 3505, 350803 =
						350803, 3551
++++---+	++++---+	-----+	-----	---+-----	++++---+	3508, 3530 = 350803, 3517 =
						350803, 3530
++++---+	++++---+	-----+	-----	---+-----	++++---+	351401, 3516 = 351402, 3516
++++---+	++++---+	-----+	-----	---+-----	++++---+	3510, 3566 = 3516, 3566
++++---+	++++---+	-----+	-----	---+-----	++++---+	3510, 3572 = 3516, 3572 =
						3528, 3551
++++---+	++++---+	-----+	-----	---+-----	++++---+	3516, 3520 = 3516, 3593 =
						3517, 3528
++++---+	++++---+	-----+	-----	---+-----	++++---+	3516, 3529 = 3517, 3569

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++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	3510,3597 = 3516,3597
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	3510,3589 = 3516,3589
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3505,3510 = 3505,3516 = 3516,356802
++++-----	+---+-----	-----+--	-----	---+-----	-----++	3516,3540N = 3516,356801
++++-----	+---+-----	-----+--	-----	-----	+---+---	3516,3552 = 3516,3582 = 3516,3592 = 3517,3592
++++-----	+---+-----	-----+--	-----	-----	-+---++-	3516,3553N = 3516,3591
++++-----	+---+-----	-----+--	-----	-----	-----++	350104,3516 = 3510,3530 = 3516,3530 = 3516,3557
++++-----	+---+-----	-----+--	-----	-----	-----++	3501,3516 = 3510,3517
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3516,3532 = 3516,3551
++++-----	+---+-----	-----+--	---+-----	-----	-----++	351401,3566 = 351402,3566
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3519,3558 = 3558,3577
++++-----	+---+-----	-----+--	---+-----	-----	-----++	351401,3572 = 351402,3572
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3520,3558 = 3558,3593
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3529,3558 = 3558,3576
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3505,3521 = 3524,3558 = 3546,3558
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	351401,3597 = 351402,3597
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	351401,3589 = 351402,3589
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3505,351401 = 3505,351402 = 3530,3543 = 3530,3567
++++-----	+---+-----	-----+--	---+-----	-----	+---+---	3552,3558 = 3558,3582
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	3511,3597 = 3558,3591
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	3511,3589 = 3554,3558
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3501,3558 = 350104,3558 = 3505,3511 = 3530,3558 = 3530,3599 = 3557,3558
++++-----	+---+-----	-----+--	-----	-----	-+---++-	351401,3530 = 351402,3530
++++-----	+---+-----	-----+--	---+-----	-----	-----++	351401,3558 = 351402,3558 = 3517,3543 = 3558,3562
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	351401,3551 = 351402,3551 = 3517,3567
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3511,3558 = 3517,3558
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3511,3551 = 3517,3599
++++-----	+---+-----	-----+--	-----	-----	-+---++-	351401,3517 = 351402,3517
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3519,3566 = 3566,3577
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3520,3566 = 3566,3593
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3529,3566 = 3566,3576
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3524,3566 = 3546,3566
++++-----	+---+-----	-----+--	---+-----	-----	+---+---	3552,3566 = 3566,3582
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3501,3566 = 350104,3566 = 3515,3530 = 3515,3566 = 3517,3566 = 3530,3566 = 3549,3566 = 3557,3566
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	3519,3572 = 3572,3577
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	3519,3597 = 3577,3597
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	3519,3589 = 3577,3589
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3505,3519 = 3505,3577
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3519,3551 = 3551,3577
++++-----	+---+-----	-----+--	-----	-----	-----++	3519,3530 = 3530,3577
++++-----	+---+-----	-----+--	-----	-----	-----++	3517,3519 = 3517,3577
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3505,3535 = 3535,3551 = 3535,3572
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	3520,3597 = 3593,3597
++++-----	+---+-----	-----+--	---+-----	-----	-+---++-	3520,3589 = 3589,3593
++++-----	+---+-----	-----+--	---+-----	-----	-----++	350104,3572 = 3505,3520 = 3505,3593 = 3530,3572 = 3557,3572
++++-----	+---+-----	-----+--	---+-----	-----	-----++	3501,3572 = 3517,3572 = 3520,3551 = 3551,3593 = 3572,3593
++++-----	+---+-----	-----+--	-----	-----	-----++	3517,3535 = 3530,3535
++++-----	+---+-----	-----+--	-----	-----	-----++	3520,3530 = 3530,3593

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++++-----	+-----	-+-----	-----	-----	-----+--+	3517, 3520 = 3517, 3593
++++-----	+-----	-+-----	-----	-----	-+-----	3529, 3597 = 3576, 3597
++++-----	+-----	-+-----	-----	-----	-+-----	3529, 3589 = 3576, 3589
++++-----	+-----	-+-----	-----	-----	-----+--+	3505, 3529 = 3505, 3576
++++-----	+-----	-+-----	-----	-----	-----+--+	3529, 3551 = 3551, 3576
++++-----	+-----	-+-----	-----	-----	-----+--+	3529, 3530 = 3530, 3576
++++-----	+-----	-+-----	-----	-----	-----+--+	3517, 3529 = 3517, 3576
++++-----	+-----	-----+--	-----	-----	-+-----	3524, 3597 = 3546, 3597
++++-----	+-----	-----+--	-----	-----	-+-----	3524, 3589 = 3546, 3589
++++-----	+-----	-----+--	-----	-----	-----+--+	3505, 3524 = 3505, 3546 = 3546, 3551
++++-----	+-----	-----+--	-----	-----	-----+--+	3517, 3546 = 3524, 3530 = 3530, 3546
++++-----	+-----	-----+--	-----	-----	++-----	3552, 3597 = 3582, 3597
++++-----	+-----	-----+--	-----	-----	+-----	3552, 3589 = 3582, 3589
++++-----	+-----	-----+--	-----	-----	+-----	3505, 3552 = 3505, 3582
++++-----	+-----	-----+--	-----	-----	+-----	3551, 3552 = 3551, 3582
++++-----	+-----	-----+--	-----	-----	-+-----	3554, 3597 = 3589, 3591
++++-----	+-----	-----+--	-----	-----	-+-----	3501, 3597 = 350104, 3597 = 3505, 3591 = 3517, 3597 = 3530, 3597 = 3557, 3597 = 3591, 3597
++++-----	+-----	-----+--	-----	-----	-+-----	3501, 3589 = 350104, 3589 = 3505, 3554 = 3517, 3589 = 3530, 3589 = 3554, 3589 = 3557, 3589
++++-----	+-----	-----+--	-----	-----	-----+--+	3501, 3505 = 350104, 3505 = 350104, 3551 = 3505, 3517 = 3505, 3530 = 3505, 3557 = 3517, 356802 = 3530, 3532 = 3530, 3551 = 3530, 356802 = 3551, 3557
++++-----	+-----	-----+--	-----	-----	-----+--+	3530, 3540N = 3530, 356801
++++-----	+-----	-----+--	-----	-----	-----+--+	3517, 3540N = 3517, 356801
++++-----	+-----	-----+--	-----	-----	+-----	3530, 3552 = 3530, 3582
++++-----	+-----	-----+--	-----	-----	+-----	3517, 3552 = 3517, 3582
++++-----	+-----	-----+--	-----	-----	-+-----	3530, 3553N = 3530, 3591
++++-----	+-----	-----+--	-----	-----	-+-----	3517, 3553N = 3517, 3591
++++-----	+-----	-----+--	-----	-----	-----+--+	3501, 3530 = 350104, 3517 = 350104, 3530 = 3517, 3530 = 3517, 3557 = 3530, 3530 = 3530, 3557
++++-----	+-----	-----	-----	-----	-----+--+	3517, 3532 = 3517, 3551
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3507, 3545 = 3508, 3594 = 3545, 3594
++++-----	-+-----	-----+--	-----	+-----	-----+--+	351401, 3594 = 351402, 3594
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3507, 351401 = 3507, 351402
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3507, 3547 = 3519, 3594 = 3547, 3594 = 3577, 3594
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3507, 3519 = 3507, 3577
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3520, 3594 = 3593, 3594
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3507, 3520 = 3507, 3593
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3529, 3594 = 3576, 3594
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3507, 3529 = 3507, 3576
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3540N, 3594 = 356801, 3594
++++-----	-+-----	-----+--	-----	+-----	+-----	3552, 3594 = 3582, 3594
++++-----	-+-----	-----+--	-----	+-----	-+-----	3553N, 3594 = 3591, 3594
++++-----	-+-----	-----+--	-----	+-----	-----+--+	350104, 3594 = 3557, 3594
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3501, 3594 = 3507, 3571 = 3507, 3594 = 3571, 3594 = 3594, 3594
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3507, 3540N = 3507, 356801
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3507, 3552 = 3507, 3582
++++-----	-+-----	-----+--	-----	+-----	-----+--+	3507, 3553N = 3507, 3591
++++-----	-+-----	-----+--	-----	+-----	-----+--+	350104, 3507 = 3507, 3557

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++++-----	-+-----	-----+-	-----	-----	-----+--+	3501,3507 = 3507,3507
++++-----	---++-----	-----+-	-----	-----+	-----+--+	351401,3580 = 351402,3580
++++-----	---++-+-	-----+-	-----	-----	-----+--+	3510,3561 = 3561,3580
++++-----	---++-----	-+-----+-	-----	-----	-----+--+	3508,3528 = 3520,3580 = 3580,3593
++++-----	---++-----	-+-----+-	-----+	-----	-----+--+	3508,3569 = 3529,3580
++++-----	---++-----	-----+-	-----	+-----	-----+--+	3510,3545 = 3545,3580 = 3571,3580
++++-----	---++-----	-----+-	-----	---+-----	-----+--+	3540N,3580 = 356801,3580
++++-----	---++-----	-----+-	-----	-----	+-----+--+	3508,3592 = 3552,3580 = 3580,3582 = 3580,3592
++++-----	---++-----	-----+-	-----	-----	-+-----+--+	3553N,3580 = 3580,3591
++++-----	---++-----	-----+-	-----	-----	-----+--+	350104,3580 = 350803,3510 = 350803,3580 = 3557,3580
++++-----	---++-----	-----+-	-----	-----	-----+--+	3501,3580 = 3508,3510 = 3508,3580
++++-----	---++-----	-----+-	-----	-----+	-----+--+	351401,3561 = 351402,3561
++++-----	---++-----	-----+-	---+-----	---+-----	-----+--+	3508,3579 = 350803,3579
++++-----	---++-----	-----+-	---+-----	-----+	-----+--+	3508,3543 = 350803,3543 = 350803,3567
++++-----	---++-----	-----+-	-----	+-----+	-----+--+	351401,3545 = 351402,3545
++++-----	---++-----	-----+-	-----	-----+	-----+--+	350803,351401 = 350803,351402
++++-----	---++-----	-----+-	-----	-----+	-----+--+	3508,351401 = 3508,351402
++++-----	---++-----	-----+-	-----	-----	-----+--+	3519,3561 = 3561,3577
++++-----	---++-----	-+-----+-	-----	-----	-----+--+	3520,3561 = 3561,3593
++++-----	---++-----	---+-----+-	-----+	-----	-----+--+	3529,3561 = 3561,3576
++++-----	---++-----	-----+-	-----	+-----	-----+--+	3545,3561 = 3561,3571
++++-----	---++-----	-----+-	-----	---+-----	-----+--+	3540N,3561 = 3561,356801
++++-----	---++-----	-----+-	-----	-----	+-----+--+	3552,3561 = 3561,3582
++++-----	---++-----	-----+-	-----	-----	-+-----+--+	3553N,3561 = 3561,3591
++++-----	---++-----	-----+-	-----	-----	-----+--+	350104,3561 = 350803,3561 = 3557,3561
++++-----	---++-----	-----+-	-----	-----	-----+--+	3501,3561 = 3508,3561
++++-----	---++-----	-----+-	-----	+-----	-----+--+	3508,3547 = 3519,3545 = 3545,3547 = 3545,3577
++++-----	---++-----	-----+-	-----	-----	-----+--+	350803,3519 = 350803,3577
++++-----	---++-----	-----+-	-----	-----	-----+--+	3508,3519 = 3508,3577
++++-----	---++-----	-+-----+-	-----	+-----	-----+--+	3520,3545 = 3545,3593
++++-----	---++-----	-+-----+-	-----	---+-----	-----+--+	3508,3535 = 350803,3535
++++-----	---++-----	-+-----+-	-----	-----	-----+--+	350803,3520 = 350803,3593
++++-----	---++-----	-+-----+-	-----	-----	-----+--+	3508,3520 = 3508,3593
++++-----	---++-----	---+-----+-	-----+	+-----	-----+--+	3529,3545 = 3545,3576
++++-----	---++-----	---+-----+-	-----+	-----	-----+--+	350803,3529 = 350803,3576
++++-----	---++-----	---+-----+-	-----+	-----	-----+--+	3508,3529 = 3508,3576
++++-----	---++-----	-----+-	-----	-----	-----+--+	3508,3546 = 350803,3524 = 350803,3546
++++-----	---++-----	-----+-	---+-----	-----	-----+--+	3508,356802 = 350803,3532 = 350803,356802
++++-----	---++-----	-----+-	-----	+-----	-----+--+	3540N,3545 = 3545,356801
++++-----	---++-----	-----+-	-----	+-----	+-----+--+	3545,3552 = 3545,3582
++++-----	---++-----	-----+-	-----	+-----	-+-----+--+	3545,3553N = 3545,3591
++++-----	---++-----	-----+-	-----	+-----	-----+--+	350104,3545 = 350803,3545 = 350803,3571 = 3545,3557
++++-----	---++-----	-----+-	-----	+-----	-----+--+	3501,3545 = 3508,3545 = 3508,3571 = 3545,3545 = 3545,3571
++++-----	---++-----	-----+-	3540N =	---+-----	-----+--+	350803,3540N = 350803,356801
++++-----	---++-----	-----+-	-----	---+-----	-----+--+	3508,3540N = 3508,356801
++++-----	---++-----	-----+-	-----	-----	+-----+--+	350803,3552 = 350803,3582
++++-----	---++-----	-----+-	-----	-----	+-----+--+	3508,3552 = 3508,3582
++++-----	---++-----	-----+-	-----	-----	-+-----+--+	350803,3553N = 350803,3591
++++-----	---++-----	-----+-	-----	-----	-+-----+--+	3508,3553N = 3508,3591

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++++-----	---+-----	-----+-	-----	-----	-----+++	3501,350803 = 350104,3508 = 350104,350803 = 3508,350803 = 3508,3557 = 350803,350803 = 350803,3557
++++-----	---+-----	-----+-	-----	-----	-----+++	3501,3508 = 3508,3508
++++-----	---+-----	---+-----	-----	-----+	-----+++	351401,3528 = 351402,3528
++++-----	---+-----	---+-----	-----+	-----+	-----+++	351401,3569 = 351402,3569
++++-----	---+-----	-----+-	-----	-----+	+++++++	351401,3592 = 351402,3592
++++-----	---+-----	-----+-	-----	-----+	-----+++	3510,351401 = 3510,351402
++++-----	---+-----+	-----+-	-----	-----	+++++++	3519,3592 = 3577,3592
++++-----	---+-----	---+-----	-----+	-----	-----+++	3520,3569 = 3528,3529 = 3569,3593
++++-----	---+-----	---+-----	-----	---+-----	-----+++	3528,3540N = 3528,356801
++++-----	---+-----	---+-----	-----	---+-----	-----+++	3510,3535 = 3528,3535
++++-----	---+-----	---+-----	-----	-----	+++++++	3520,3592 = 3528,3552 = 3528,3592 = 3592,3593
++++-----	---+-----	---+-----	-----	-----	+++++++	3528,3553N = 3528,3591
++++-----	---+-----	---+-----	-----	-----	-----+++	350104,3528 = 3528,3557
++++-----	---+-----	---+-----	-----	-----	-----+++	3501,3528 = 3510,3520 = 3510,3593 = 3528,3593
++++-----	---+-----	---+-----	-----+	---+-----	-----+++	3540N,3569 = 356801,3569
++++-----	---+-----	---+-----	-----+	-----	+++++++	3529,3592 = 3552,3569 = 3569,3582 = 3569,3592 = 3576,3592
++++-----	---+-----	---+-----	-----+	-----	+++++++	3553N,3569 = 3569,3591
++++-----	---+-----	---+-----	-----+	-----	-----+++	350104,3569 = 3557,3569
++++-----	---+-----	---+-----	-----+	-----	-----+++	3501,3569 = 3510,3529 = 3529,3569
++++-----	---+-----	-----+-	-----	---+-----	+++++++	3540N,3592 = 356801,3592
++++-----	---+-----	-----+-	-----	---+-----	-----+++	3510,3540N = 3510,356801
++++-----	---+-----	-----+-	-----	-----	+++++++	3553N,3592 = 3591,3592
++++-----	---+-----	-----+-	-----	-----	+++++++	350104,3592 = 3557,3592
++++-----	---+-----	-----+-	-----	-----	+++++++	3501,3592 = 3510,3552 = 3510,3582 = 3510,3592 = 3552,3592 = 3582,3592 = 3592,3592
++++-----	---+-----	-----+-	-----	-----	+++++++	3510,3553N = 3510,3591
++++-----	---+-----	-----+-	-----	-----	-----+++	350104,3510 = 3510,3557
++++-----	---+-----	-----+-	-----	-----+	-----+++	3519,3586 = 3577,3586
++++-----	---+-----	---+-----	-----	-----+	-----+++	3520,3586 = 3586,3593
++++-----	---+-----	---+-----	-----+	-----+	-----+++	3529,3586 = 3576,3586
++++-----	---+-----	---+-----	-----+	-----+	-----+++	351401,3515 = 351402,3515 = 3515,3586 = 3549,3586
++++-----	---+-----	---+-----	-----	-----+	+++++++	3552,3586 = 3582,3586
++++-----	---+-----	---+-----	-----	-----+	-----+++	350104,3586 = 3557,3586
++++-----	---+-----	---+-----	-----	-----+	-----+++	3511,3586 = 351401,3586 = 3562,3586
++++-----	---+-----	---+-----	-----	-----	-----+++	3519,3521 = 3521,3577
++++-----	---+-----	---+-----	---+-----	---+-----	-----+++	3519,3579 = 3577,3579
++++-----	---+-----	---+-----	---+-----	---+-----	-----+++	3519,3543 = 3543,3577
++++-----	---+-----	---+-----	---+-----	-----+	-----+++	3519,3567 = 3567,3577
++++-----	---+-----	---+-----	---+-----	-----	-----+++	3519,3599 = 3577,3599
++++-----	---+-----	---+-----	-----	+++++++	-----+++	351401,3547 = 351402,3547
++++-----	---+-----	---+-----	-----	-----+	-----+++	351401,3519 = 351401,3577 = 351402,3519 = 351402,3577
++++-----	---+-----	---+-----	-----	-----	-----+++	3511,3519 = 3511,3577
++++-----	---+-----	---+-----	-----+	-----+	-----+++	351401,3526 = 351402,3526
++++-----	---+-----	---+-----	-----	-----	-----+++	3520,3521 = 3521,3593
++++-----	---+-----	---+-----	---+-----	---+-----	-----+++	3520,3579 = 3535,3543 = 3535,3567 = 3535,3579 = 3579,3593
++++-----	---+-----	---+-----	---+-----	-----+	-----+++	3520,3543 = 3543,3593
++++-----	---+-----	---+-----	---+-----	-----+	-----+++	3520,3567 = 3567,3593

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++++-----	-----+---	-+-----+	---+-----	-----	-----+--+	3520,3599 = 3593,3599
++++-----	-----+---	-+-----+	-----	-----+--+	-----+--+	351401,3535 = 351402,3535
++++-----	-----+---	-+-----+	-----	-----+--+	-----+--+	351401,3520 = 351401,3593
						= 351402,3520 =
						351402,3593
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3511,3520 = 3511,3593
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3521,3529 = 3521,3576
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3529,3579 = 3576,3579
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3529,3543 = 3543,3576
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3529,3567 = 3567,3576
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3529,3599 = 3576,3599
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3529 = 351401,3576
						= 351402,3529 =
						351402,3576
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3511,3529 = 3511,3576
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3525 = 351402,3525
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3524,3579 = 3546,3579
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3524,3543 = 3543,3546 =
						3546,3567
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3521,356802 = 3546,3599
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3521,3540N = 3521,356801
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3546 = 351402,3546
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3524 = 351402,3524
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3521,3552 = 3521,3582
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3521,3553N = 3521,3591
++++-----	-----+---	-+-----+	-----	-----	-----+--+	350104,3521 = 3511,3546 =
						3521,3546 = 3521,3557
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3501,3521 = 3511,3524 =
						3521,3524
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3521,3532 = 3521,3599
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3521 = 351402,3521
						= 3521,3562
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3511,3521 = 3521,3521
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3527 = 351402,3527
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3550 = 351402,3550
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3542 = 351402,3542
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3541 = 351402,3541
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3552,3579 = 3579,3582
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3501,3579 = 350104,3579
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3543,3552 = 3543,3582
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3552,3567 = 3567,3582
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3501,3543 = 350104,3543 =
						350104,3567 =
						351401,356802 =
						351402,356802 = 3557,3567
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3552,3599 = 3582,3599
++++-----	-----+---	-+-----+	-----	-----	-----+--+	350104,3599 = 3511,356802
						= 3557,3599
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3537 = 351402,3537
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3549 = 351402,3549
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3571 = 351402,3571
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3548 = 351402,3548
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3540N =
						351401,356801 =
						351402,3540N =
						351402,356801
++++-----	-----+---	-+-----+	-----	-----	-----+--+	3511,3540N = 3511,356801
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3563 = 351402,3563
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3552 = 351401,3582
						= 351402,3552 =
						351402,3582
++++-----	-----+---	-+-----+	-----	-----	-----+--+	351401,3553N =
						351401,3591 =
						351402,3553N =
						351402,3591

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++++-----	-----+---	-----+--	-----	-----+--	-----+--	351401,3554 = 351402,3554
++++-----	-----+---	-----+--	-----	-----+--	-----+--	351401,3578 = 351402,3578
++++-----	-----+---	-----+--	-----	-----+--	-----+--	350104,351401 =
						350104,351402 =
						351401,3557 = 351402,3557
++++-----	-----+---	-----+--	-----	-----+--	-----+--	3501,351401 = 3501,351402
++++-----	-----+---	-----+--	-----	-----	-----+--	3511,3552 = 3511,3582
++++-----	-----+---	-----+--	-----	-----	-----+--	3511,3553N = 3511,3591
++++-----	-----+---	-----+--	-----	-----	-----+--	350104,3511 = 3511,3557
++++-----	-----+---	-----+--	-----	-----+--	-----+--	3511,3579 = 351401,3579 =
						3562,3579
++++-----	-----+---	-----+--	-----	-----+--	-----+--	3511,3543 = 351401,3543 =
						3543,3562
++++-----	-----+---	-----+--	-----	-----+--	-----+--	3511,3567 = 351401,3532 =
						351401,3567 = 351401,3599
						= 351402,3532 = 3562,3567
						= 3562,3599
++++-----	-----+---	-----+--	-----	-----	-----+--	3511,3532 = 3511,3599
++++-----	-----+---	-----+--	-----	-----+--	-----+--	3511,351401 = 3511,351402
						= 3511,3562 =
						351401,351401 =
						351401,351402 =
						351401,3562 = 351402,3562
++++-----	-----+---	-----+--	-----	-----	-----+--	3515,3519 = 3515,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3515,3520 = 3515,3593
++++-----	-----+---	-----+--	-----	-----	-----+--	3515,3529 = 3515,3576
++++-----	-----+---	-----+--	-----	-----	-----+--	3515,3540N = 3515,356801
++++-----	-----+---	-----+--	-----	-----	-----+--	3515,3552 = 3515,3582
++++-----	-----+---	-----+--	-----	-----	-----+--	3515,3553N = 3515,3591
++++-----	-----+---	-----+--	-----	-----	-----+--	350104,3515 = 3515,3557
++++-----	-----+---	-----+--	-----	-----	-----+--	3501,3515 = 3515,3515 =
						3515,3549
++++-----	-----+---	-----+--	-----	-----	-----+--	3520,3547 = 3547,3593
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3535 = 3535,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3520 = 3519,3593 =
						3520,3577 = 3577,3593
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3529 = 3529,3577 =
						3576,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3524 = 3524,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3564 = 3564,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3527 = 3527,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3550 = 3550,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3542 = 3542,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3541 = 3541,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,356802 = 356802,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3532 = 3532,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3537 = 3537,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3540N,3547 = 3547,356801
++++-----	-----+---	-----+--	-----	-----	-----+--	3547,3552 = 3547,3582
++++-----	-----+---	-----+--	-----	-----	-----+--	3547,3553N = 3547,3591
++++-----	-----+---	-----+--	-----	-----	-----+--	350104,3547 = 3547,3557
++++-----	-----+---	-----+--	-----	-----	-----+--	3501,3547 = 3519,3571 =
						3547,3571 = 3547,3577 =
						3571,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3548 = 3548,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3540N = 3519,356801
						= 3540N,3577 =
						356801,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3562 = 3562,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3552 = 3519,3582 =
						3552,3577 = 3577,3582
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3553N = 3519,3591 =
						3553N,3577 = 3577,3591
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3554 = 3554,3577
++++-----	-----+---	-----+--	-----	-----	-----+--	3519,3578 = 3577,3578

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++++-----	-----+	-----+	-----	-----	-----++	350104, 3519 = 350104, 3577 = 3519, 3557 = 3557, 3577
++++-----	-----+	-----+	-----	-----	-----++	3501, 3519 = 3501, 3577 = 3519, 3577 = 3577, 3577
++++-----	-----	+-----+	-----+	-----	-----++	3526, 3540N = 3526, 356801
++++-----	-----	+-----+	-----+	-----	-----++	3526, 3553N = 3526, 3591
++++-----	-----	+-----+	-----+	-----	-----++	350104, 3526 = 3526, 3557
++++-----	-----	+-----+	-----+	-----	-----++	3529, 3535 = 3535, 3576
++++-----	-----	+-----+	-----+	-----	-----++	3520, 3529 = 3529, 3593 = 3576, 3593
++++-----	-----	+-----+	-----+	-----	-----++	3520, 3525 = 3525, 3593
++++-----	-----	+-----+	-----	-----	-----++	3524, 3535 = 3535, 3546
++++-----	-----	+-----+	-----	-----	-----++	3520, 3546 = 3546, 3593
++++-----	-----	+-----+	-----	-----	-----++	3520, 3524 = 3524, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3564 = 3564, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3527 = 3527, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3550 = 3550, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3542 = 3542, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3541 = 3541, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3532, 3535 = 3535, 356802
++++-----	-----	+-----+	+-----	-----	-----++	3520, 356802 = 356802, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3532 = 3532, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3537 = 3537, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3549 = 3549, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3571 = 3571, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3548 = 3548, 3593
++++-----	-----	+-----+	+-----	-----	-----++	3535, 3540N = 3535, 356801
++++-----	-----	+-----+	+-----	-----	-----++	3520, 3540N = 3520, 356801 = 3540N, 3593 = 356801, 3593
++++-----	-----	+-----+	-----	-----	-----++	3535, 3552 = 3535, 3582
++++-----	-----	+-----+	-----	-----	-----++	3535, 3553N = 3535, 3591
++++-----	-----	+-----+	-----	-----	-----++	3501, 3535 = 350104, 3535 = 3520, 3535 = 3535, 3535 = 3535, 3557 = 3535, 3593
++++-----	-----	+-----+	-----	-----	-----++	3520, 3562 = 3562, 3593
++++-----	-----	+-----+	-----	-----	-----++	3520, 3552 = 3552, 3593 = 3582, 3593
++++-----	-----	+-----+	-----	-----	-----++	3520, 3553N = 3520, 3591 = 3553N, 3593 = 3591, 3593
++++-----	-----	+-----+	-----	-----	-----++	3520, 3554 = 3554, 3593
++++-----	-----	+-----+	-----	-----	-----++	350104, 3520 = 350104, 3593 = 3520, 3557 = 3557, 3593
++++-----	-----	+-----+	-----	-----	-----++	3501, 3520 = 3501, 3593 = 3520, 3593 = 3593, 3593
++++-----	-----	+-----+	-----	-----	-----++	3524, 3529 = 3524, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3564 = 3564, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3527, 3529 = 3527, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3550 = 3550, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3542 = 3542, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3541 = 3541, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 356802 = 356802, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3532 = 3532, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3537 = 3537, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3571 = 3571, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3548 = 3548, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3540N = 3529, 356801 = 3540N, 3576 = 356801, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3562 = 3562, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3552 = 3529, 3582 = 3552, 3576
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3553N = 3529, 3591 = 3553N, 3576 = 3576, 3591
++++-----	-----	+-----+	+-----	-----	-----++	3529, 3554 = 3554, 3576

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++++-----	-----	--+----+	-----+	-----	-----+++	350104,3529 = 350104,3576 = 3529,3557 = 3557,3576
++++-----	-----	--+----+	-----+	-----	-----+++	3501,3529 = 3501,3576 = 3529,3529 = 3529,3576
++++-----	-----	----+--+	----+--+	-----	-----+++	3525,3542 = 3525,3550
++++-----	-----	----+--+	-----++	--+-----	-----+++	3525,3540N = 3525,356801
++++-----	-----	----+--+	-----++	-----	+----+++	3525,3552 = 3525,3582
++++-----	-----	----+--+	-----++	-----	-+----++	3525,3553N = 3525,3591
++++-----	-----	----+--+	-----++	-----	-----+++	350104,3525 = 3525,3557
++++-----	-----	----+--+	----+-----	-----	-----+++	3524,356802 = 3532,3546 = 3546,356802
++++-----	-----	----+--+	-----	--+-----	-----+++	3540N,3546 = 3546,356801
++++-----	-----	----+--+	-----	--+-----	-----+++	3524,3540N = 3524,356801
++++-----	-----	----+--+	-----	-----	+----+++	3546,3552 = 3546,3582
++++-----	-----	----+--+	-----	-----	+----+++	3524,3552 = 3524,3582
++++-----	-----	----+--+	-----	-----	-+----++	3546,3553N = 3546,3591
++++-----	-----	----+--+	-----	-----	-+----++	3524,3553N = 3524,3591
++++-----	-----	----+--+	-----	-----	-----+++	3501,3546 = 350104,3524 = 350104,3546 = 3524,3546 = 3524,3557 = 3546,3557
++++-----	-----	----+--+	-----	-----	-----+++	3501,3524 = 3524,3524
++++-----	-----	-----+	+-----	--+-----	-----+++	3527,3540N = 3527,356801
++++-----	-----	-----+	+-----	-----+	+----+++	3552,3564 = 3564,3582
++++-----	-----	-----+	+-----	-----+	-----+++	350104,3564 = 3557,3564
++++-----	-----	-----+	+-----	-----+	-----+++	3501,3564 = 3527,3564
++++-----	-----	-----+	+-----	-----	+----+++	3527,3552 = 3527,3582
++++-----	-----	-----+	+-----	-----	-+----++	3527,3553N = 3527,3591
++++-----	-----	-----+	+-----	-----	-----+++	350104,3527 = 3527,3557
++++-----	-----	-----+	+-----	-----	-----+++	3501,3527 = 3527,3527
++++-----	-----	-----+	-+-----	--+-----	-----+++	3540N,3550 = 3550,356801
++++-----	-----	-----+	-+-----	-----	+----+++	3550,3552 = 3550,3582
++++-----	-----	-----+	-+-----	-----	-+----++	3550,3553N = 3550,3591
++++-----	-----	-----+	-+-----	-----	-----+++	350104,3550 = 3550,3557
++++-----	-----	-----+	-+-----	-----	-----+++	3501,3550 = 3542,3550 = 3550,3550
++++-----	-----	-----+	-+-----	--+-----	-----+++	3540N,3542 = 3542,356801
++++-----	-----	-----+	-+-----	-----	+----+++	3542,3552 = 3542,3582
++++-----	-----	-----+	-+-----	-----	-+----++	3542,3553N = 3542,3591
++++-----	-----	-----+	-+-----	-----	-----+++	350104,3542 = 3542,3557
++++-----	-----	-----+	-+-----	-----	-----+++	3501,3542 = 3542,3542
++++-----	-----	-----+	--+-----	--+-----	-----+++	3540N,3541 = 3541,356801
++++-----	-----	-----+	--+-----	-----	+----+++	3541,3552 = 3541,3582
++++-----	-----	-----+	--+-----	-----	-+----++	3541,3553N = 3541,3591
++++-----	-----	-----+	--+-----	-----	-----+++	350104,3541 = 3541,3557
++++-----	-----	-----+	-+-----	-----	-----+++	3501,3541 = 3541,3541
++++-----	-----	-----+	-+-----	-----	+----+++	3552,356802 = 356802,3582
++++-----	-----	-----+	-+-----	-----	+----+++	3532,3552 = 3532,3582
++++-----	-----	-----+	-+-----	-----	-----+++	3501,356802 = 350104,3532 = 350104,356802 = 3532,3557 = 3557,356802
++++-----	-----	-----+	-----+	-----	+----+++	3537,3552 = 3537,3582
++++-----	-----	-----+	-----+	-----	-----+++	350104,3537 = 3537,3557
++++-----	-----	-----+	-----+	--+-----	-----+++	3540N,3549 = 3549,356801
++++-----	-----	-----+	-----+	-----	+----+++	3549,3552 = 3549,3582
++++-----	-----	-----+	-----+	-----	-+----++	3549,3553N = 3549,3591
++++-----	-----	-----+	-----+	-----	-----+++	350104,3549 = 3549,3557
++++-----	-----	-----+	-----	-+-----	-----+++	3540N,3571 = 356801,3571
++++-----	-----	-----+	-----	-----	+----+++	3552,3571 = 3571,3582
++++-----	-----	-----+	-----	+-----	-+----++	3553N,3571 = 3571,3591
++++-----	-----	-----+	-----	+-----	-----+++	350104,3571 = 3557,3571
++++-----	-----	-----+	-----	+-----	-----+++	3501,3571 = 3571,3571
++++-----	-----	-----+	-----	-+-----	-----+++	3540N,3548 = 3548,356801
++++-----	-----	-----+	-----	-+-----	+----+++	3548,3552 = 3548,3582
++++-----	-----	-----+	-----	-----	-+----++	3548,3553N = 3548,3591
++++-----	-----	-----+	-----	-+-----	-----+++	350104,3548 = 3548,3557

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++++-----	-----	-----+-	-----	-+-----	-----+--	3501,3548 = 3548,3548
++++-----	-----	-----+-	-----	-+-----	-----+--	3540N,3562 = 3562,356801
++++-----	-----	-----+-	-----	-+-----	-----+--	3540N,3563 = 3563,356801
++++-----	-----	-----+-	-----	-+-----	-----+--	3540N,3552 = 3540N,3582 =
						3552,356801 = 356801,3582
++++-----	-----	-----+-	-----	-+-----	-----+--	3540N,3553N = 3540N,3591
						= 356801,3591
++++-----	-----	-----+-	-----	-+-----	-----+--	3540N,3554 = 3554,356801
++++-----	-----	-----+-	-----	-+-----	-----+--	3540N,3578 = 356801,3578
++++-----	-----	-----+-	-----	-+-----	-----+--	350104,3540N =
						350104,356801 =
						3540N,3557 = 3557,356801
++++-----	-----	-----+-	-----	-+-----	-----+--	3501,3540N = 3501,356801
						= 3540N,3540N =
						3540N,356801
++++-----	-----	-----+-	-----	-+-----	-----+--	3552,3562 = 3562,3582
++++-----	-----	-----+-	-----	-+-----	-----+--	3553N,3562 = 3562,3591
++++-----	-----	-----+-	-----	-+-----	-----+--	350104,3562 = 3557,3562
++++-----	-----	-----+-	-----	-+-----	-----+--	3553N,3563 = 3563,3591
++++-----	-----	-----+-	-----	-+-----	-----+--	350104,3563 = 3557,3563
++++-----	-----	-----+-	-----	-+-----	-----+--	3552,3553N = 3552,3591 =
						3553N,3582 = 3582,3591
++++-----	-----	-----+-	-----	-+-----	-----+--	3552,3554 = 3554,3582
++++-----	-----	-----+-	-----	-+-----	-----+--	350104,3552 = 350104,3582
						= 3552,3557 = 3557,3582
++++-----	-----	-----+-	-----	-+-----	-----+--	3501,3552 = 3501,3582 =
						3552,3552 = 3552,3582
++++-----	-----	-----+-	-----	-+-----	-----+--	3553N,3554 = 3554,3591
++++-----	-----	-----+-	-----	-+-----	-----+--	3553N,3578 = 3578,3591
++++-----	-----	-----+-	-----	-+-----	-----+--	350104,3553N =
						350104,3591 = 3553N,3557
						= 3557,3591
++++-----	-----	-----+-	-----	-+-----	-----+--	3501,3553N = 3501,3591 =
						3553N,3591 = 3591,3591
++++-----	-----	-----+-	-----	-+-----	-----+--	350104,3554 = 3554,3557
++++-----	-----	-----+-	-----	-+-----	-----+--	3501,3554 = 3554,3554
++++-----	-----	-----+-	-----	-+-----	-----+--	350104,3578 = 3557,3578
++++-----	-----	-----+-	-----	-+-----	-----+--	3501,350104 = 3501,3557 =
						350104,350104 =
						350104,3557
++++++++	-----	-----+-	++++-----	-----	-----+--	350403,3584 = 3512,3584
++++++++	-----	-----+-	++++-----	-----	-----+--	3502,3584 = 3584,3595
+++++--+	-+-----	-----+-	-----	-----	-----+--	350301,3583 = 3575,3583
+++++--+	-+-----	-----+-	-----	-----	-----+--	350403,3513 = 3512,3513
+++++--+	-+-----	-----+-	-----	-----	-----+--	3502,3513 = 3513,3595
+++++--+	-+-----	-----+-	-----	-----	-----+--	3502,3596 = 3581,3596 =
						3595,3596
+++++--+	-+-----	-----+-	-----	-----	-----+--	350403,3533 = 3512,3533
+++++--+	-+-----	-----+-	-----	-----	-----+--	350403,3536 = 3512,3536
+++++--+	-+-----	-----+-	-----	-----	-----+--	350403,3574 = 3512,3574
+++++--+	-+-----	-----+-	-----	-----	-----+--	350403,3556 = 3512,3556
+++++--+	-+-----	-----+-	-----	-----	-----+--	350403,3570 = 3512,3570
+++++--+	-+-----	-----+-	-----	-----	-----+--	350403,3585 = 3512,3585
+++++--+	-+-----	-----+-	-----	-----	-----+--	350403,3565Q = 3512,3565Q
+++++--+	-+-----	-----+-	-----	-----	-----+--	350403,3555 = 3512,3555
+++++--+	-+-----	-----+-	-----	-----	-----+--	350403,3598 = 3512,3598
+++++--+	-+-----	-----+-	-----	-----	-----+--	350301,350403 =
						350301,3512 = 350403,3575
						= 3506,3539 = 3512,3575 =
						3534,3559
+++++--+	-+-----	-----+-	-----	-----	-----+--	3502,3533 = 3533,3595
+++++--+	-+-----	-----+-	-----	-----	-----+--	3502,3536 = 3536,3595
+++++--+	-+-----	-----+-	-----	-----	-----+--	3502,3574 = 3574,3595
+++++--+	-+-----	-----+-	-----	-----	-----+--	350301,3581 = 3575,3581
+++++--+	-+-----	-----+-	-----	-----	-----+--	3502,3556 = 3556,3595

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+++---+	-----	-----+	-----	---+---	-----+	3502,3570 = 3570,3595
+++---+	-----	-----+	-----	---+---	-----+	3502,3565Q = 3565Q,3595
+++---+	-----	-----+	-----	---+---	-----+	3502,3555 = 3555,3595
+++---+	-----	-----+	-----	---+---	-----+	3502,3598 = 3595,3598
+++---+	-----	-----+	-----	---+---	-----+	3502,3538 = 3538,3595
+++---+	-----	-----+	-----	---+---	-----+	3502,350301 = 3502,3575 =
						350301,3595 = 3575,3595
+++---+	-----	-----+	-----	---+---	-----+	350301,3504 = 3504,3575 =
						3506,3534
+++---+	-----	---+---	+-----	-----+	-----+	3534,3588 = 3539,3588
+++---+	-----	-----+	-----	-----+	-----+	3502,3539 = 3539,3595
+++---+	-----	-----+	-----	-----	-----+	3504,3539 = 350403,3534 =
						350403,3539 = 350901,3539
						= 3512,3534
+++---+	-----	-----+	-----	-----+	-----+	3502,3534 = 3534,3595
+++---+	-----	-----+	-----	-----	-----+	3504,3534 = 350901,3534
+++---+	-----	-----+	---+---	-----	-----+	3506,3584 = 350901,3584
+++---+	---+---	-----+	+-----	-----+	-----+	350301,3518 = 3518,3556
+++---+	---+---	-----+	-----	-----	-----+	3506,3513 = 350901,3513
+++---+	---+---	-----+	-----	-----	-----+	3506,3596 = 350901,3596
+++---+	---+---	---+---	+-----	-----+	-----+	350301,3588 = 3556,3588
+++---+	---+---	-----+	-----	-----	-----+	350301,3559 = 3559,3575
+++---+	---+---	-----+	---+---	-----	-----+	3506,3533 = 350901,3533
+++---+	-----	+-----	-----	-----	-----+	3506,3536 = 350901,3536
+++---+	-----	---+---	-----	-----	-----+	3506,3574 = 350901,3574
+++---+	-----	---+---	+-----	-----+	-----+	350301,3531 = 3531,3556 =
						3531,3598
+++---+	-----	-----+	+-----	-----+	-----+	350301,350902 =
						350902,3556
+++---+	-----	-----+	+-----	-----	-----+	3506,3556 = 350901,3556
+++---+	-----	-----+	-----	---+---	-----+	3506,3570 = 350901,3570
+++---+	-----	-----+	-----	---+---	-----+	350301,3560 = 3560,3598
+++---+	-----	-----+	-----	-----	+-----+	3506,3585 = 350901,3585
+++---+	-----	-----+	-----	-----	+-----+	3506,3565Q = 350901,3565Q
+++---+	-----	-----+	-----	-----	-----+	3506,3555 = 350901,3555
+++---+	-----	-----+	-----	-----	-----+	350301,3587 = 3506,3598 =
						350901,3598 = 3587,3598
+++---+	-----	-----+	-----	-----	-----+	3506,3538 = 350901,3538
+++---+	-----	-----+	-----	-----	-----+	350301,3506 =
						350301,350901 = 3506,3575
+++---+	---+---	-----+	-----	-----	-----+	350301,3539 = 350302,3539
						= 3539,3575
+++---+	-----	-----+	-----	-----	-----+	350301,3534 = 350302,3534
						= 3534,3575
+++---+	-----	-----+	---+---	-----	-----+	350301,3584 = 350302,3584
						= 3575,3584 = 3584,3584
+++---+	---+---	-----+	-----	-----	-----+	350301,3513 = 350302,3513
						= 3513,3575
+++---+	---+---	-----+	-----	-----	-----+	350301,3596 = 350302,3596
						= 3575,3596 = 3596,3598
+++---+	---+---	-----+	---+---	-----	-----+	350301,3533 = 350302,3533
						= 3533,3533 = 3533,3575
+++---+	-----	+-----	-----	-----	-----+	350301,3536 = 350302,3536
						= 3536,3536 = 3536,3575
+++---+	-----	---+---	-----	-----	-----+	350301,3574 = 350302,3574
						= 3574,3574 = 3574,3575
+++---+	-----	-----+	+-----	-----	-----+	350301,3556 = 350302,3556
						= 3556,3556 = 3556,3575
+++---+	-----	-----+	-----	---+---	-----+	350301,3570 = 350302,3570
						= 3570,3570 = 3570,3575
+++---+	-----	-----+	-----	-----	+-----+	350301,3585 = 350302,3585
						= 3575,3585
+++---+	-----	-----+	-----	-----	+-----+	350301,3565Q =
						350302,3565Q =
						3565Q,3565Q = 3565Q,3575

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+++-----+	-----	-----+-	-----	-----	-----	+++-----+	350301,3555 = 350302,3555 = 3555,3555 = 3555,3575
+++-----+	-----	-----+-	-----	-----	-----	+++-----+	350301,3598 = 350302,3598 = 3575,3598 = 3598,3598
+++-----+	-----	-----+-	-----	-----	-----	+++-----+	350301,3538 = 350302,3538 = 3538,3575
+++-----+	-----	-----+-	-----	-----	-----	+++-----+	350301,350301 = 350301,350302 = 350301,3575 = 350302,3575
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3586 = 3586,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3579 = 3579,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3543 = 3543,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3567 = 3567,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3599 = 3595,3599
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,351402 = 351402,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350403,3564 = 3512,3564
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3564 = 3504,3564 = 3564,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	351402,3567 = 351402,3599
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350302,3522 = 3506,3522
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350302,3583 = 3506,3583
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350302,3544 = 3506,3544
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350403,3560 = 3512,3560
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3559 = 3559,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350302,350403 = 350302,3512 = 3504,3559 = 350403,3506 = 350403,3559 = 3506,3512
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350302,3581 = 3506,3581
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3560 = 3560,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,350302 = 3502,3506 = 350302,3595 = 3506,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350302,3504 = 3504,3506
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3522 = 3522,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350403,3583 = 3512,3583
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3583 = 3504,3583 = 350901,3583 = 3583,3583 = 3583,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350403,3518 = 3512,3518
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3518 = 3504,3518 = 3518,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3544 = 3544,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3588 = 3504,3588 = 350403,3588 = 3512,3588 = 3588,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350403,3581 = 3512,3581
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	350403,350902 = 350902,3512
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,350403 = 3502,3512 = 350403,3595 = 3512,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3504,350403 = 3504,3512 = 350403,350403 = 350403,350901 = 350403,3512 = 350901,3512
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3531 = 3504,3531 = 3531,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3581 = 3504,3581 = 350901,3581 = 3581,3581 = 3581,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,350902 = 3504,350902 = 350902,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3587 = 3587,3595
++-++++-	-----+-	-----+-	-----	-----+-	-----+-	++-++++-	3502,3502 = 3502,3504 = 3502,350901 = 3502,3595 = 3504,3595 = 350901,3595

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++-++-+-	-----	-----+-	-----	-----	-----++	3504,3504 = 3504,350901
++-++-+-	---+-----	-----+-	+-----	-----+-	-----++	350302,3518 = 3506,3518
++-++-+-	-----+-	---+-----	+-----	-----+-	-----++	350302,3588 = 3506,3588 = 3559,3588
++-++-+-	-----+-	-----+-	-----	-----	-----++	350302,3559 = 3506,3559 = 350901,3559
++-++-+-	-----	---+-----	+-----	-----+-	-----++	350302,3531 = 3506,3531
++-++-+-	-----	-----+-	+-----	-----+-	-----++	350302,350902 = 3506,350902
++-++-+-	-----	-----+-	-----	-----+-	-----++	350302,3560 = 3506,3560
++-++-+-	-----	-----+-	-----	-----	-----++	350302,3587 = 3506,3587
++-++-+-	-----	-----+-	-----	-----	-----++	350302,3506 = 350302,350901 = 3506,3506 = 3506,350901
+++++--	+-----	-----+-	---+-----	-----	-----++	3505,3522 = 3522,356802
+++++--	+-----	-----	---+-----	-----	-----++	3522,3532 = 3522,3551
+++++--	+-----	-----+-	---+-----	-----+-	-----++	3505,3560 = 3551,3560
+++++--	-----	-----+-	---+-----	-----	-----++	3532,3560 = 3560,356802
+++++--	+-----+-	-----+-	-----+-	-----	-----++	350901,3566 = 3566,3587
+++++--	+-----	-----+-	---+-----	-----	---+-----++	350901,3597 = 3587,3597
+++++--	+-----	-----+-	---+-----	-----	---+-----++	350901,3589 = 3587,3589
+++++--	+-----	-----+-	---+-----	-----	-----++	3505,350901 = 3505,3587
+++++--	-----	-----+-	---+-----	-----	-----++	350901,356802 = 356802,3587
+++++--	+-----+-	-----+-	---+-----	-----+-	-----++	3543,3566 = 3566,3567
+++++--	+-----+-	-----+-	---+-----	-----	-----++	3558,3566 = 3566,3599
+++++--	+-----	-----+-	---+-----	-----+-	---+-----++	3543,3597 = 3567,3597
+++++--	+-----	-----+-	---+-----	-----+-	---+-----++	3543,3589 = 3567,3589
+++++--	+-----	-----+-	---+-----	-----+-	-----++	3505,3543 = 3505,3567
+++++--	+-----	-----+-	---+-----	-----	---+-----++	3553N,3558 = 3558,3597 = 3597,3599
+++++--	+-----	-----+-	---+-----	-----	---+-----++	3558,3589 = 3589,3599
+++++--	+-----	-----+-	---+-----	-----	-----++	3505,3558 = 3505,3599 = 3558,356802
+++++--	+-----	-----	---+-----	---+-----	-----++	3551,3579 = 3558,3579
+++++--	+-----	-----	---+-----	-----+-	-----++	3543,3551 = 3543,3558 = 3558,3567
+++++--	+-----	-----	---+-----	-----	-----++	3532,3558 = 3551,3558 = 3558,3558 = 3558,3599
+++++--	+-----+-	-----+-	---+-----	-----	-----++	3505,3566 = 3532,3566 = 3551,3566 = 3566,356802
+++++--	+-----	---+-----	---+-----	-----	-----++	3505,3572 = 356802,3572
+++++--	+-----	---+-----	---+-----	-----	-----++	3532,3572 = 3551,3572
+++++--	+-----	-----+-	---+-----	-----	---+-----++	3553N,3589 = 3589,3597
+++++--	+-----	-----+-	---+-----	-----	---+-----++	3505,3553N = 3505,3597 = 3532,3597 = 3551,3597 = 3553N,3597 = 356802,3597 = 3597,3597
+++++--	+-----	-----+-	---+-----	-----	---+-----++	3505,3589 = 3532,3589 = 3551,3589 = 356802,3589 = 3589,3589
+++++--	+-----	-----+-	---+-----	-----	-----++	3505,3505 = 3505,3532 = 3505,3551 = 3505,356802 = 3551,356802
+++++--	+-----	-----	---+-----	-----	-----++	3532,3551 = 3551,3551
+++++--	---+-----	-----+-	---+-----	-----+-	-----++	3543,356802 = 3567,356802
+++++--	-----	-----+-	---+-----	-----	-----++	3532,356802 = 356802,356802
+++++--	---+-----	-----	---+-----	-----+-	-----++	3544,3567 = 3544,3599
+++++--	-----	-----+-	+-----	-----+-	-----++	350901,3564 = 350902,3564
+++++--	---+-----	-----	---+-----	-----+-	-----++	3567,3586 = 3586,3599
+++++--	---+-----	-----	---+-----	---+-----	-----++	3567,3579 = 3579,3599
+++++--	---+-----	-----	---+-----	---+-----	-----++	3543,3579 = 3579,3579
+++++--	---+-----	-----	---+-----	-----+-	-----++	3543,3567 = 3543,3599
+++++--	---+-----	-----	---+-----	-----+-	-----++	3567,3567 = 3567,3599

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```
+---+---+ - - - - - - - - - - + - - - - - - - - - + - - - - + - - - - + 3560, 3560 = 3560, 3587
+---+---+ - - + - - - - - - - - + - - - - - - - - - + - - - + - - - - + 350901, 3518 = 350902, 3518
                                     = 3518, 3518
+---+---+ - - - - + - - - - + - - - + - - - - + - - - - + - - - + - - - + 3531, 3588 = 3587, 3588
+---+---+ - - - - + - - - - + - - - + - - - - + - - - + - - - + 350901, 3588 = 350902, 3588
                                     = 3588, 3588
+---+---+ - - - - - - - - - - + - - - + - - - - + - - - + - - - + 350901, 3531 = 350902, 3531
+---+---+ - - - - - - - - - - + - - - + - - - - + - - - + - - - + 3531, 3531 = 3531, 3587
+---+---+ - - - - - - - - - - + - - - + - - - - + - - - + - - - + 350901, 350902 =
                                     350902, 350902
-+++-----+ - - - + - - - - - - + - - - - - - - - - + - - - - - - - - - + 3513, 3569 = 3513, 3576
-+++-----+ + - - + - - - - - - + - - - - - - - - - + - - - - - - - - - + 3516, 3569 = 3516, 3576
-+++-----+ - - + + - - - - - - + - - - - - - - - - + - - - - - - - - - + 3569, 3580 = 3576, 3580
-+++-----+ - - + + - - - - - - + - - - - - - - - - + - - - - - - - - - + 3510, 3580 = 3580, 3580
-+++-----+ - - + + - - - - - - + - - - - - - - - - + - - - - - - - - - + 3510, 3569 = 3510, 3576 =
                                     3569, 3569 = 3569, 3576
-+++-----+ - - - - - - - - - - + - - - - - - - - - + - - - - - - - - - + 3519, 3547 = 3547, 3547
-+++-----+ - - - - - - - - - - + - - - - - - - - - + - - - - - - - - - + 3525, 3525 = 3525, 3549
```

3501 = 350101-350103 and 350105-350113
3502 = 350201-350203
3504 = 350401-350402
3508 = 350801-350802 and 350804
3512 = 351201-351202
3520 = 352001-352002

SPECIFICITY TABLE

HLA-B*35 SSP subtyping

Specificities and sizes of the PCR products of the 48 primer mixes used for HLA-B*35 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*35 alleles ³	Other amplified Class I alleles ⁴
1⁵	95 bp	800 bp	*350101-350902, 3511-351202, 351401-3515, 3517, 3518, 352001-3524, 3527, 3529-3545, 3548, 3550-3562, 3564-356802, 3570-3572, 3574, 3575, 3577-3579, 3581-3599	*0832, 180101-1811, 1813-1815, 1817N-1836, 1838-1845, 3708, 3806, 3807, 391901, 391902, 4406, 510101-510110, 510112-512402, 5126-5146, 5148-5184, 530101-5316, 5318, 5319, 7801-7804
2	150 bp	1070 bp	*350101-350403, 3506-350804, 3510-3517, 3519-3521, 3523-3530, 3533-3536, 3538-3542, 3545-3550, 3552, 3554-3557, 3559, 3561-3563, 3565Q, 3569-3571, 3574, 3576-3578, 3580-3585, 3590-3596, 3598	*130101, 130102, 1306, 1307N, 1312, 1313, 1317, 1320, 132201-1323, 1325, 1326, 1328, 1329, 1410, 150201, 150202, 1513, 1520, 1521, 152501, 152502, 1536, 1544, 1562, 1577, 1580, 1585, 1588, 1589, 9506, 9512, 9521, 9539, 9544, 9554, 9570, 1822, 2719, 2730, 370101-370107, 3703N-3706, 3708, 3710, 3711, 3713-3719, 3820, 3942, 4028, 44020101-4414, 4416, 4417, 4419N, 4421-4430, 4432-4440, 4442-4446, 4448-4452N, 4455-446402, 4466-4488, 4802, 5104, 5142, 5146, 5156, 530101-5306, 5308-5313, 5315-5319, 5514, 5609, 5611, 5612, 570101-570104, 5702-5710, 5712, 5714-5720, 5722-5726, 580101, 580102, 5804, 5805, 5809-5815, 5817N, 5819, 5821-5824, 8301

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3⁵	115 bp	800 bp	*350101- 350113, 350301, 3505, 3507-350804, 3510, 3511, 3513, 351401, 3515-3517, 3519-3521, 3523-3530, 3532-3542, 3545-3558, 3561-3563, 3565Q, 3566, 356801-3572, 3574-3578, 3580, 3582, 3584, 3585, 3589-3594, 3596-3598	*070213, 072202, 0807, 0837, 1326, 150302, 1520, 152703, 153802, 180101-1815, 1817N- 1819, 1822-1825, 1827-1845, 3709, 3907, 3915, 3929, 3943, 3949, 4104, 4209, 4417, 4443, 4445, 4451, 4509, 461301, 4802, 4904, 5137, 5145, 5212, 530101, 530102, 530104-5306, 5308- 5318, 5409, 5414, 5416, 5514, 5523, 5527, 5609, 5611, 5618, 5714, 580101-5802, 5804-5807, 5809-5819, 5821-5824
4	280 bp	1070 bp	*350101- 350113, 3505, 3507-350804, 3510, 3511, 351401-3517, 3519-3521, 3523-3530, 3532, 3535, 3537, 3540N- 3543, 3545- 3554, 3557, 3558, 3561- 3564, 3566- 3569, 3571, 3572, 3576- 3580, 3582, 3586, 3589- 3594, 3597, 3599	*0709, 0711, 0717, 0828, 0835, 0837, 1304, 1310, 1326, 15010101-150104, 150106-1508, 151101-1516, 151801-1521, 1523-1529, 1531-1536, 153801- 1540, 1543, 1544, 1546, 1547, 1549-1557, 1560-1562, 1564- 1572, 1574-1576, 157801-1582, 1584, 1585, 1587-1589, 1591- 1598, 9501-9529, 9531, 9532, 9534-9536, 9538-9549N, 9551- 9561, 9563-9567, 9569-9576, 9578, 180101-1815, 1817N-1825, 1827-1840, 1842-1845, 2741, 3907, 3943, 4003, 4020, 4038, 4052, 4059, 4060, 4209, 4417, 4443, 4509, 460101-4610, 4612- 4617, 4619-4622, 4802, 4814, 4904, 4905, 5137, 5145, 5163, 530101-5303, 5305, 5306, 5308- 5318, 5406, 5409, 5414, 5514, 5523, 5532, 5603, 5609, 5618, 570101-570105, 5706, 5708, 5710, 5711, 5713-5716, 5718- 5726, 580101-5802, 5804-5807, 5809-5819, 5821-5824
5	285 bp	800 bp	*350401- 350403, 3506, 350901,	*070501-0706, 0732, 0734, 0740, 0753, 0769, 0778, 0780, 0790, 0797, 080101-0806, 0808N-0813,

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			350902, 351201, 351202, 3518, 3522, 3531, 3544, 3559, 3560, 3587, 3588	0815-0827, 0829-0836, 0838- 0847, 130101-1303, 1306-1309, 1311-1323, 1325, 1327-1330, 1413, 1509, 1530, 1542, 1548, 1558, 1573, 1583, 1586, 9550, 1826, 2707, 2711, 2720, 2724, 2727, 2733, 2743, 3712, 380101, 380103-3820, 39010101, 39010102L, 390103-390602, 3908-3914, 3916, 3918-3920, 3922-3924, 3926-3928, 3930- 3942, 3944-3948, 3950-3954, 400101-400207, 4004-4008, 4010-4016, 4019, 4021-4023, 4025-4030, 4034-4040, 4043, 4045-4051, 4053-4058, 4061- 4088, 4090-4097, 4101-410302, 4105-4109, 4111, 4112, 420101- 4202, 4204-4208, 4210-4213, 4410, 4414, 4431, 4462, 4477, 4482, 4611, 4618, 480101, 480102, 480301-4807, 4809- 4816, 4818-4820, 510101- 510202, 510204-5116, 5119- 512402, 5126-5136, 5138-5141N, 5143, 5144N, 5146, 5148-5184, 520101-5211, 5213-5216, 5401- 5405N, 5407, 5408N, 5410-5413, 5417-5419, 550101-5505, 5507- 5513, 5515-5522, 5524-5526, 5528-5538, 560101-5602, 5604- 5608, 5610, 5612-5617, 5619N- 5626, 5702-570302, 5707, 5709, 5712, 5717, 5808, 5820, 5901- 5905, 670101-6702, 7801-7806, 8101-8104N, 8201, 8202
6 ⁵	85 bp	1070 bp	*350201- 350203, 350401-350403, 351201, 351202, 3522, 3534, 3539, 3544, 3581, 3583, 3595	*0768, 1313, 1413, 1509, 1510, 1530, 1537, 1545, 1548, 1563, 1583, 1590, 1599, 1826, 2727, 3914, 3929, 4026, 4028, 4035, 4087, 4095, 4210, 4462, 4477, 4482, 4812, 510101-510902, 5111N, 5112, 5116, 5118-5123, 5126-5136, 5138-5141N, 5143, 5144N, 5146, 5148-5161, 5164- 5180, 5182-5184, 520101-5213, 5215, 5216, 5319, 5404, 5517, 5527, 5528, 560501-5606, 5612,

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				5615, 5621, 5702-570302, 5705, 5707, 5709, 5712, 5717, 5808, 7801-7806
7^{6,11}	160 bp, 330 bp	800 bp	*3523, 3584, 3590	*1506, 152701-152703, 1584, 9509, 1827, 2723, 3816, 4008, 4025, 4068, 4410, 4412, 47010101-4703, 7301 ^w , 8201, 8202
8	280 bp	1070 bp	*350301, 350302, 3506, 3513, 3533, 3536, 3538, 3555, 3556, 3559, 3560, 3565Q, 3570, 3574, 3575, 3584, 3585, 3596, 3598	*0778, 130101-1303, 1306-1309, 1311, 1312, 1314-1320, 132201-1323, 1325, 1327-1330, 1542, 1558, 1573, 1586, 9533, 380101-3820, 39010101, 39010102L, 390103-390602, 3908-391302, 3915, 3916, 3918-3920, 3922-3924, 3926-3928, 3930-3942, 3944-3954, 4036, 4048, 4071, 4077, 4086, 4206, 4410, 4611, 4618, 4807, 511301, 511302, 5115, 5162, 5214, 5304, 5401-5403, 5405N, 5407, 5408N, 5410, 5412, 5413, 5416-5419, 550101-5503, 5505, 5507, 5509-5513, 5515, 5516, 5518, 5519, 5521, 5522, 5524-5526, 5529-5531, 5533-5538, 560101-5602, 5604, 5607, 5608, 5610, 5611, 5613, 5614, 5616, 5617, 5619N, 5620, 5622-5626, 5820, 5901, 5903-5905, 670101-6702, 8201, 8202
9^{5,7}	140 bp	800 bp	*3505, 3516, 3517, 3522, 3530, 3551, 3558, 3566, 3572, 3589, 3597	*0768, 1405, 1413, 1507, 1545, 1555, 1568, 9526, 1814, 1822, 2732, 3819, 3903, 3914, 3924, 3929, 3937, 4035, 4071, 4210, 4454, 4612, 4812, 4814, 5164, 5314, 5818
10^{5,12}	140 bp, 240 bp, 310 bp	1070 bp	*3507, 3583, 3594	Cw*0763
11^{8,9}	225 bp	800 bp	*350801-350804, 3518, 3545, 3561, 3580	0712, 0714, 071801, 071802, 4404, 442801, 442802, 4456N, 4476, 5311, 5316, 5702, 5704, 5705, 5712, 5713, 5719, 5822, A*0141^w, Cw*0328, 0349, Cw*0510, Cw*1508
12^{5,13}	95 bp, 125 bp	1070 bp	*3510, 3513, 3516, 3528,	*1812, 370101-370105, 370107-3705, 3707, 3709-3719, 4483,

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			3569, 3580, 3592	4903, 520101-520105, 5203- 5215, 5317, 7805, 7806
13	170 bp	800 bp	*3511, 351401, 351402, 3521, 3543, 3544, 3558, 3567, 3579, 3586, 3596, 3599	*070201-0724, 0726-0747, 0749N, 0750, 0752-0799, 0806, 0820, 1316, 1320, 1401-1416, 15010101-150104, 150106-1504, 1506-1519, 1521, 1523-1530, 1532-1540, 1542-1547, 1549, 1550, 1553, 1554, 1556-1558, 1560-1574, 1576-1582, 1585, 1587, 1589, 1590, 1592-1599, 9501-9504, 9506, 9508-9510, 9512, 9513, 9515-9522, 9525- 9529, 9531-9535, 9537-9544, 9546-9550, 9552-9554, 9556- 9561, 9563-9575, 9577, 9578, 1815, 1819, 1821, 1830, 270401- 270403, 2706, 2710, 2715, 2718, 2720, 2721, 2724, 2725, 2740, 2754, 3707, 3713, 3810, 3918, 3935, 3936, 4005, 4015, 4016, 4023, 4026, 4028, 4032, 4051, 4095, 4098, 4476, 4479, 460101- 4605, 4607N, 4608, 4610, 4612, 4614-4617, 4620, 4622, 4805, 4808, 4815, 490101-4907, 500101-5002, 5004-5009, 510101-5104, 5106, 5107, 5111N-5114, 5116-5118, 5121- 512402, 5126-5130, 5132-5139, 5141N, 5143, 5145, 5146, 5148- 5152, 5155-5172, 5174-5180, 5182-5184, 520101-5202, 5204- 5209, 5211-5216, 5306, 5308, 5406, 550101-550106, 5503, 5505, 5509, 5511, 5514, 5515, 5517, 5521, 5524, 5525, 5528, 5529, 5531, 5533, 5536, 5538, 5603, 560501-5606, 5621, 5625, 5709, 5713, 5722, 5806, 5808, 5819, 7801-7803, 7805, 7806
14^{5,8,9}	75 bp	800 bp	*350403, 351201, 351202, 3539, 3559, 3561, 3588	*0714, 071801, 071802, 130101, 130102, 1306, 1307N, 1312, 1313, 1317, 1320-1323, 1325, 1328, 1329, 1410, 150201, 150202, 1513, 1521, 152501, 152502, 1536, 1544, 1577, 1580, 1588, 1589, 9506, 9512, 9521,

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				9539, 9544, 9554, 9570, 2719, 2730, 3719, 3820, 3942, 4004, 4028, 4030, 4034, 4064, 4068, 4213, 44020101-440205, 440207-4409, 4411-4414, 4416, 4417, 4419N, 4421-4430, 4432-4435, 4437-4440, 4442-4446, 4448-4453, 4455-446402, 4466-4486, 4488, 5104, 5142, 5146, 5156, 5317, 5514, 5612, 570101-5704, 5706-5710, 5712-5720, 5722-5726, 8301
15⁵	135 bp	1070 bp	*3515, 3533, 3566, 3586	*0768, 130101-130206, 1307N-1311, 1313-1320, 132201-1323, 1325-1330, 1540, 1547, 1549, 1552, 9514, 9517, 9524, 9538, 1810, 1835, 2701-2706, 2708-2710, 2712-2714, 2716-2719, 2721, 2723, 2726, 2727, 2729-2732, 2735, 2737, 2739-2742, 2744-2746, 2748-2759N, 3702, 3947, 3950, 4035, 4077, 4087, 4095, 4416, 4421, 446401, 446402, 4510, 47010101-4705, 4812, 4814, 4907, 5116, 5131, 5134, 5182, 5208, 5509, 5522, 5524, 5725
16^{5,14}	95 bp, 190 bp	1070 bp	*3519, 3547, 3577	*9543, 4008, 4025, 4068, 4412
17^{8,10,15}	180 bp, 385 bp	1070 bp	*3526, 3536	*1411, 3904
18^{5,8,16}	105 bp, 180 bp	800 bp	*352001, 352002, 3528, 3535, 3572, 3593	*0837, 1550, 1569, 1593, 180101-1815, 1817N-1845, 370101-370105, 370107-3705, 3707-3719, 3907, 3943, 4209, 4483, 4603, 4621, 4903, 5107, 520101-520105, 5203-5205, 5207-5215, 5309, 5317, 5409, 5414, 5514, 5523, 5618, 5726, 5805, 7805, 7806, Cw*1509, Cw*1519, Cw*1520
19^{8,9}	230 bp	1070 bp	*3529, 3569, 3574, 3576	*0729, 0765, 0772, 0786, 080101-080109, 0802 ^w , 0804-0822, 0824-0847, 1411, 1561, 1570, 1576, 9501, 3904, 4043, 4073, 4506, 460101-4604, 4606-4622, 5120 ^w , 5401, 5403-5411,

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				5412 ^w , 5413-5419, 550101-5505, 5507-5509, 5511-5517, 5519-5530, 5532-5538, 560101-5606, 5607 ^w , 5608-5620, 5621 ^w , 5622, 5624-5626, 7801, 7803, 8301
20	200 bp	1070 bp	*3531, 3588	*070501-0706, 0732, 0740, 0753, 0769, 0778, 0780, 0790, 0797, 0840, 130101-130206, 1307N-1309, 1311, 1313-1323, 1325, 1327-1330, 2707, 2711, 2720, 2724, 2727, 2733, 2743, 3947, 3950, 400101-400207, 4004, 40060101-4008, 4010-4016, 4019, 4021-4023, 4025, 4027, 4029, 4030, 4034-4038, 4040, 4043, 4045-4050, 4053-4058, 4061, 4062, 4064-4070, 407201-4088, 4090, 4091, 4093-4097, 4406, 4431, 480101, 480102, 480301-4807, 4809-4816, 4818-4820, 4903, 510101, 510103-510108, 510110-510201, 510203-5104, 5106-510901, 5110-5114, 5116-512402, 5126-5142, 5144N-5146, 5148-5153, 5155-5177, 5179-5184, 520102, 520104, 5202, 5203, 520601, 520602, 5208, 5209, 5306, 5509, 5522, 5524, 5808, 8101-8104N
21⁸	260 bp	800 bp	*3525	*180101-1803, 1805-1815, 1817N-1828, 1830-1845, 370101-3719, 5216, 5812, 8101, 8103 [?] , 8104N [?] , 8301
22^{5,17}	90 bp, 270 bp	1070 bp	*3521, 3524, 3546, 3581, 3596	*1410, 150201, 150202, 1508, 151101-151104, 1513, 1515, 1521, 1531, 1544, 1555, 1576 ^w , 1588, 1589, 9512, 9521, 9539, 9544, 9548, 9570, 1822, 3704, 4028, 5104, 5146, 5156, 5302, 5306, 5535 ^w , 5714, 5809
23	190 bp	800 bp	*350101-3510, 3513, 3515, 3518-352002, 3523-3530, 3533-3537, 3540N-3542, 3545-3550, 3552-3557,	*130101-1304, 1306-1309, 1311-1315, 1317-1319, 132201-1323, 1325-1330, 1520, 1586, 1822, 2714, 4004, 4024, 4059, 4060, 4068, 4070, 4410, 4611, 4618, 4802, 4817, 5115, 530101-5305, 5309-5319, 5401-5405N, 5407, 5408N, 5410-5419, 550201-

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			3560, 3563- 3566, 356801- 3572, 3574- 3578, 3580- 3585, 3588- 3595, 3597, 3598	550205, 5507, 5510, 5512, 5513, 5516, 5518, 5519, 5522, 5523, 5526, 5527, 5530, 5532, 5534, 5535, 5537, 560101-5602, 5607- 5611, 5614-5617, 5619N, 5620, 5622-5624, 5626, 5705, 580101- 5802, 5804, 5807, 5809, 5811- 5818, 5821-5824, 5901-5905, Cw*0203, Cw*0434, Cw*0512
24⁹	425 bp	1070 bp		*2702, 2703, 270502-270512, 2707, 2709, 2710, 2713, 2714, 2716, 2717, 2719, 2727-2730, 2732, 2734, 2735, 2737-2739, 2741, 2743, 2745-2748, 2750- 2759N, 370101-3704, 3706-3709, 3712, 3713, 3715-3719, 4013, 4019 [?] , 4406, 4425, 4450, 47010101, 47010102, 4705, 510101-512402, 5126-5146, 5148, 5149, 5151-5153, 5155- 5177, 5179-5184, 520101-5216, 530101-5308, 5310, 5314-5319, 570101-5711, 5713-5726, 580101-5802, 5804-5816, 5818- 5824
25^{5,7,18}	135 bp, 220 bp	800 bp	*350902, 3518, 3527, 3531, 3556, 3564, 3588	*070201-070213, 070215-0767N, 0769-0799, 080102, 0806, 0820, 1321, 150302, 1533, 157802, 9507, 9516, 9541, 9550, 1821, 2701-2721, 2723-2759N, 3702, 3705, 3707, 3709, 400101-4013, 401403-4016, 4018-4025, 4027, 4029-4040, 4042-4070, 407202- 4076, 4078-4081, 4083-4086, 4088-4094, 4096-4098, 4108, 4431, 4606, 47010101-4705, 480101, 480102, 480301-4811, 4813, 4815-4820, 510109, 5110, 512402, 5181, 5411, 5504, 5508, 5713, 7806, 8101-8104N
26¹⁹	210 bp, 370 bp	800 bp	*3542, 3550, 3584	*0708, 0732, 0738, 180701, 180702, 1829, 2723, 3806, 3807, 4008, 4013, 4068, 4806, 5157
27^{5,8,20}	110 bp, 160 bp	1070 bp	*3541, 3584, 3590	*2723, 3816, 4008, 4025, 4068, 4412, 7301 ^w
28	230 bp	800 bp	*3505, 3522, 3532, 3543,	*0720, 0724, 0760, 0821, 0825, 15010101-150104, 150106-

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			3544, 3551, 3558, 3567, 356802, 3572, 3579, 3589, 3597, 3599	150112, 150301-150303, 1505, 1507-151102, 151104, 1512 ^w , 1514, 1515, 15170101-151801, 151803, 1519 ^w , 1523, 1524, 1528-1531, 1533-1535, 1537- 1539, 1543, 1545, 1546, 1548, 1551, 1553-1558, 1560, 1561, 1563-1566, 1568, 1570-1576, 157801-1579N, 1581, 1582, 1587, 1590-1592, 1594N, 1596- 1599, 9501-9505, 9507, 9508, 9511N, 9513, 9515, 9516, 9518- 9520, 9522, 9523, 9525-9528, 9531-9536, 9540-9543, 9545- 9553, 9556-9569, 9571-9578, 1836, 3932, 4005, 4026, 4063, 4071, 4092, 4441, 4454, 4465, 4482, 460101-4602, 4604, 4605, 4608-4610, 4612-4617, 4619, 4620, 4622, 5106, 5145, 5159, 5162, 5164, 5314, 5406, 5508, 5602-5604, 5816, 5818, Cw*0305, Cw*0325, Cw*0327
29⁵	105 bp	1070 bp	*3537	*1304, 1504, 1516, 1567, 1595, 9537, 9555, 390601, 390602, 3933, 3934, 3950, 4086, 4502, 4509, 4904, 4905, 5009, 511301, 511302, 5137, 5163, 5214, 5414, 5513, 5523, 5532, 5622, 5903, 7301
30^{5,8,21}	115 bp, 325 bp	800 bp	*3515, 3525, 3526, 3533, 3549, 3566	*070213, 0840, 130101-130206, 1307N-1311, 1313-1321, 132202, 1323, 1325-1330, 1810, 1835, 1837, 2701-2721, 2723-2751, 2753-2759N, 3947, 3950, 401401, 4046 [?] , 407201, 4077, 4093 [?] , 4095, 4416, 4421, 4440, 4444, 446401, 446402, 4510, 4812, 4907, 5116, 5131, 5134, 5182, 5208, 5216, 5509, 5522, 5524, 8101, 8103 [?] , 8104N [?] , 8301, Cw*0110^w, Cw*0715^w
31^{8,22}	170 bp, 210 bp	1070 bp	*3525, 3550, 3584	*0708, 0732, 0738, 080101-0803, 0805-0816, 0818-0825, 0827- 0847, 1529, 180701, 180702, 1829, 2723, 3806, 3807, 4008, 4013, 4068, 4806, 5157
32⁹	170 bp	1070 bp	*3529, 3569,	*070201, 070202, 070204-0715,

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			3576	0717-0726, 0728-0736, 0739-0749N, 0751-0755, 0757-0772, 0774, 0776-0790, 0792-0799, 1570, 1576, 9501, 1803 ^w , 391902, 420101-4202, 4204-4210, 4212, 4213, 460101, 4603-4622, 5120, 5535, 5603, 5606, 7301, 7801, 7803, 8101-8104N, 8301
33 ^{5,23}	70 bp, 205 bp, 310 bp	1070 bp	*3545, 3547, 3571, 3594	*0720, 1514, 1546, 1591, 9506, 9531, 9561, 400204, 4410, 4414, 4417, 4431, 4443, 4445, 4451, 4462, 4477, 4482, 4484, 4509, 4617, 5123, 5215, 5707, 5807, 8201, 8202
34	230 bp	800 bp	*3548	*5307
35 ^{7,8,24}	240 bp, 365 bp	1070 bp	*3540N, 356801	*081203
36 ^{5,25}	110 bp, 180 bp, 230 bp	800 bp	*3535, 3570, 3579	*3820, 3942
37 ⁵	85 bp	1070 bp	*3560	*130101-1303, 1306-1309, 1311, 1312, 1314-1320, 132201-1323, 1325, 1327-1330, 1542, 1573, 1586, 3917, 4071, 4410, 4415, 4418, 4501, 4504-4508, 4510, 4611, 4618, 490101-4903, 4906, 4907, 500101-5002, 5004-5008, 5115, 5162, 5401-5403, 5405N, 5407, 5408N, 5410, 5412, 5413, 5417-5419, 550101-5503, 5505, 5507, 5509-5512, 5515, 5516, 5518, 5519, 5521, 5522, 5524-5526, 5529-5531, 5533-5538, 560101-5602, 5604, 5607, 5608, 5610, 5613, 5614, 5616, 5617, 5619N, 5623-5626, 5901, 5904, 5905, 8201, 8202
38 ^{8,26}	220 bp, 300 bp	1070 bp	*350201-350203, 350902, 3518, 3531, 3564, 3581, 3583, 3588, 3595	*070201-070213, 070215-0767N, 0769-0799, 080102, 0806, 0820, 1321, 150302, 1533, 157802, 9507, 9516, 9541, 9550, 1821, 2701-2721, 2723-2759N, 3702, 3707, 3709, 400101-4013, 401403-4016, 4018-4025, 4027, 4029-4040, 4042-4070, 407202-4076, 4078-4081, 4083-4086, 4088-4094, 4096-4098, 4108,

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				4431, 4606, 47010101-4705, 480101, 480102, 480301-4811, 4813, 4815-4820, 510109, 5110, 512402, 5181, 5319, 5411, 5504, 5508, 5713, 8101-8104N
39⁵	115 bp	1070 bp	*351401, 351402, 3543, 3544, 3562, 3567, 3579, 3586	*15010101-150104, 150106-150112, 1504, 1507, 1508, 151101-1512, 1514, 1515, 1519, 1524, 1526N-1528, 1530, 1532, 1534, 1535, 153801, 153802, 1543, 1545, 1546, 1550, 1553, 1554, 1556-1558, 1560, 1563, 1566, 1568, 1570, 1571, 1573, 1575-1577, 1579N, 1581, 1582, 1585, 1587, 1592, 1594N, 1596, 1597, 9501, 9502, 9504, 9505, 9509-9511N, 9513, 9517, 9518, 9520, 9522, 9525, 9526, 9528, 9529, 9535, 9537, 9540, 9542-9549N, 9552, 9554, 9557, 9559, 9560, 9563-9567, 9569, 9571, 9572, 9574, 9575, 9578, 1819, 2725, 3936, 460101-4602, 4604, 4605, 4607N, 4609, 4610, 4612, 4614-4617, 4620, 4622, 5161, 5406, 5521, 5603, Cw*0620
40	185 bp	1070 bp	*3563	*0773, 1553, 2708, 2712, 2718, 2726, 2733, 2740, 2742, 2744, 400101-400203, 400205-4009, 4011, 401401-4016, 4018, 4020, 4022N-4040, 4042-4046, 4048-4075, 4077-4082, 4084-4093, 4095, 4097, 4098, 4101-4104, 4106-4111, 4409, 4446, 4475, 4501-4510, 4702, 4703 ^w , 500101-5002, 5004-5009
41^{5,27}	105 bp, 130 bp	1070 bp	*3552, 3582, 3585, 3592	*1833, 391901, 391902, 5122, 7803
42^{5,28}	115 bp, 155 bp, 190 bp, 250 bp	800 bp	*3553N, 3565Q, 3591, 3597	
43²⁹	205 bp, 255 bp	1070 bp	*3554, 3589	
44^{5,30}	110 bp, 145 bp, 300 bp	1070 bp	*3555, 3578	*1809, 3710, 4483, 5154, 5178, 5309, 5311-5313
45³²	165 bp	800 bp	*350101-3530, 3532-3542,	*1520, 4802, 510101-512402, 5126-5141N, 5143-5146, 5148-

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			3544-3556, 3558, 3559, 3561-3572, 3574-3578, 3580-3586, 3588-3599	5184, 520101-520602, 5208- 5216, 530101-5317, 5319, 560501, 560502, 5621, 580101- 5802, 5804-5810N, 5812-5819, 5821-5824, 7801-7806, 8103, 8301 [?]
46 ^{7,8,31, 32}	165 bp, 385 bp	1070 bp	*350104, 3505, 350803, 3530, 3531, 3535, 3543, 3546, 3557, 3558, 3560, 3566, 356802, 3579, 3587, 3589, 3596-3598	*070201-0757, 0759-0799, 080101-0847, 130101-1304, 1306-1323, 1325-1330, 1401- 1416, 15010101-150104, 150106-1519, 1521, 1523-1540, 1542-1558, 1560-1599, 9501, 9503-9529, 9531-9578, 180101- 1815, 1817N-1845, 2701-2721, 2723-2759N, 370101-3719, 380101-3820, 39010101, 39010102L, 390103-3920, 3922- 3945, 3947-3954, 400101-4016, 4018-4040, 4042-4098, 4101- 4112, 420101-4202, 4204-4213, 44020101-4465, 4467-4488, 4501-4510, 460101-4622, 47010101-4705, 480101, 480102, 480301-4820, 490101- 4907, 500101-5002, 5004-5009, 5142, 5156, 5207, 5314, 5401- 5419, 550101, 550102, 550104- 5505, 5507-5538, 560101-5604, 5606-5620, 5622-5626, 570101- 5726, 580103, 5811, 5820, 5901- 5905, 670101-6702, 8101, 8102, 8104N, 8201, 8202, 8301 [?]
47	160 bp	800 bp	*3538	*4206, 5613, 8201, 8202, Cw*070401^w-070403^w, Cw*0711^w, Cw*0712^w, Cw*0745^w, Cw*0763^w
48	390 bp	1070 bp	*350101-3519, 3521-3525, 3527, 3529- 3562, 3564- 3571, 3574, 3575, 3577, 3579-3581, 3583, 3584, 3586-3594, 3596-3599	*180701, 180702, 1829, 2723, 4008, 4013, 4068 [?] , 4406, 510101-5106, 5108-5121, 5123- 512402, 5126-5146, 5148-5184, 520601, 520602, 530101-5308, 5310-5316, 5318, 5319, 7801- 780202, 7804

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¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B*35 SSP typings.

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

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

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

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

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

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*35 subtyping.

In addition, wells number 3, 5, 7, 9, 11, 13, 14, 18, 21, 23, 25, 26, 28, 30, 34, 36, 42, 45 and 47 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

³For several HLA-B alleles first 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 first exon are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-B alleles many non-HLA-B*35 alleles will be amplified by the HLA-B*35 primer mixes. In addition, the A*0141 allele will be weakly amplified by primer mix 11. Furthermore, the Cw*0110 and Cw*0715 alleles will be weakly amplified by primer mix 30, the Cw*0203, Cw*0434 and Cw*0512 alleles will be amplified by primer mix 23, the Cw*0305, Cw*0325 and Cw*0327 alleles by primer mix 28, the Cw*0328, Cw*0349, Cw*0510 and Cw*1508 alleles by primer mix 11, the Cw*0620 allele by primer mix 39, the Cw*070401-070403, the Cw*0711, Cw*0712 and the Cw*0745 alleles weakly by primer mix 47, the Cw*0763 allele by primer mix 10 and weakly by primer mix 47, and the Cw*1509, Cw*1519 and Cw*1520 alleles weakly by primer mix 18.

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

⁶Primer mix 7 may faintly amplify the B*44 alleles.

⁷Primer mixes 9, 25, 35 and 46 may give rise to a primer oligomer artefact.

⁸Primer mixes 7, 10, 11, 14, 17, 18, 19, 21, 27, 30, 31, 35, 38 and 46 have a tendency of giving rise to nonspecific amplifications, most pronounced in primer mix 46.

⁹Primer mixes 11, 14, 19, 24 and 32 may yield less specific PCR products than the other B*35 primer mixes.

¹⁰Primer mix 17 may give rise to a long unspecific PCR product of approximately 600 bp. This should be disregarded when interpreting the typing results.

¹¹Primer mix 7: Specific PCR fragment of 160 bp in the B*3584 and 3590 and the B*2723, 3816, 4008, 4025, 4068, 4412, 7301^w alleles. Specific PCR fragment of 330 bp in the B*3523 and the B*1506, 152701-152703, 1584, 1827, 9509, 4410, 47010101-4703, 8201 and 8202 alleles.

¹²Primer mix 10: Specific PCR fragment of 140 bp in the B*3583 and the Cw*0763 alleles. Specific PCR fragment of 240 bp in the B*3507 allele. Specific PCR fragment of 310 bp in the B*3594 allele.

¹³Primer mix 12: Specific PCR fragment of 95 bp in the B* 3510, 3513, 3516, 3528, 3569 and 3580 and the B*1812, 370101-370105, 370107-3705, 3707, 3709-3719, 4483, 4903, 520101-520105, 5203-5215, 5317, 7805 and 7806 alleles. Specific PCR fragment of 125 bp in the B*3592 allele.

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¹⁴Primer mix 16: Specific PCR fragment of 95 bp in the B*3519, 3547 and B*9543, 4008, 4025, 4068 and 4412 alleles. Specific PCR fragment of 190 bp in the B*3577 allele.

¹⁵Primer mix 17: Specific PCR fragment of 180 bp in the B*3526 and the B*1411 and 3904 alleles. Specific PCR fragment of 385 bp in the B*3536 allele.

¹⁶Primer mix 18: Specific PCR fragment of 105 bp in the B*352001, 352002, 3528 and 3572 and in the B*1810, 1821 1835, 1836, 1841, 370101-370105, 370107-3705, 3707-3719, 4483, 4903, 5107, 520101-520105, 5203-5205, 5207-5215, 5309, 5317, 7805 and 7806 alleles. Specific PCR fragment of 180 bp in the B*3535 and 3593 and in the B**0837, 1550, 1569, 1593, 1807, 1827-1829, 1833 1837, 3907, 3943, 4209, 4603, 4621, 5409, 5414, 5514, 5523, 5618, 5726, 5805, Cw*1509, Cw*1519 and Cw*1520 alleles. Specific PCR fragment of 105 and 180 bp in the B*180101-1806, 1808, 1809, 1811-1815, 1817N-1820, 1822-1825 1830-1832, 1834, 1838-1840 and 1842-1845 alleles.

¹⁷Primer mix 22: Specific PCR fragment of 90 bp in the B*3546 and the B*150201, 150202, 1508, 151101-151104, 1513, 1515, 1521, 1531, 1544, 1555, 1576^w, 1588, 1589, 5535^w, 9512, 9521, 9539, 9544, 9548 and 9570 alleles. Specific PCR fragment of 270 bp in the B*3521, 3524, 3581 and 3596 and the B*1410, 1822, 3704, 4028, 5104, 5146, 5156, 5302, 5306, 5714 and 5809 alleles.

¹⁸Primer mix 25: Specific PCR fragment of 135 bp in the B*3527 and 3556 and the B*3705 and 7806 alleles. Specific PCR fragment of 220 bp in the 350902, 3518, 3531, 3564 and 3588 and the B*070201-070213, 070215-0767N, 0769-0799, 080102, 0806, 0820, 1321, 150302, 1533, 157802, 9507, 9516, 9541, 9550, 1821, 2701-2721, 2723-2751, 2753-2759N, 3702, 3707, 3709, 400101-4013, 401403-4016, 4018-4025, 4027, 4029-4040, 4042-4070, 407202-4076, 4078-4081, 4083-4086, 4088-4094, 4096-4098, 4108, 4431, 4606, 47010101-4705, 480101, 480102, 480301-4811, 4813, 4815-4820, 510109, 5110, 512402, 5411, 5504, 5508, 5713 and 8101-8104N alleles. Specific PCR fragment of 135 and 220 bp in the B*2752 and 5181 alleles.

¹⁹Primer mix 26: Specific PCR fragment of 210 bp in the B*3550 and 3584 and the B*0708, 0732, 0738, 3806, 3807, 4806 and 5157 alleles. Specific PCR fragment of 370 bp in the B* 3542 allele. Specific PCR fragment of 210 and 370 bp in the B*180701, 180702, 1829, 2723, 4008, 4013 and 4068 alleles.

²⁰Primer mix 27: Specific PCR fragment of 110 bp in the B*3541 allele. Specific PCR fragment of 160 bp in the B*3584 and 3590 and the B*2723, 3816, 4008, 4025, 4068, 4412 and 7301^w alleles.

²¹Primer mix 30: Specific PCR fragment of 115 bp in the B*3515, 3533 and 3566 and the B*070213, 0840, 130101-130206, 1307N-1311, 1313-1321, 132202, 1323, 1325-1330, 1810, 1835, 3947, 3950, 401401, 407201, 4077, 4095, 4416, 4421, 446401, 446402, 4510, 4812, 4907, 5116, 5131, 5134, 5182, 5208, 5509, 5522, 5524, Cw*0110^w and Cw*0715^w alleles. Specific PCR fragment of 325 bp in the B*3525, 3526 and 3549 and the B*1837, 2701-2721, 2723-2751, 2753-2759N, 4046[?], 4093[?], 4440, 4444, 5216, 8101, 8103[?], 8104N[?] and 8301 alleles.

²²Primer mix 31: Specific PCR fragment of 170 bp in the B*3525 and the B*080101-0803, 0805-0816, 0818-0825, 0827-0847 and 1529 alleles. Specific PCR fragment of 210 bp in the B*3550, 3584 and B*1829, 2723, 4008, 4013, 4068 and 5157 alleles. Specific PCR fragment of 170 and 210 bp in the B*0708, 0732, 0738, 180701, 180702, 3806, 3807 and 4806 alleles.

²³Primer mix 33: Specific PCR fragment of 70 bp in the B*3547 and the B*1546, 9506, 400204 and 4484 alleles. Specific PCR fragment of 205 bp in the B*3545 and 3571 and the B*0720, 1514, 1591, 9531, 9561, 4410, 4414, 4417, 4431, 4443, 4445, 4451, 4462, 4477, 4482, 4509, 4617, 5123, 5215, 5707, 5807, 8201 and 8202 alleles. Specific PCR fragment of 310 bp in the B*3594 allele.

²⁴Primer mix 35: Specific PCR fragment of 240 bp in the B*3540N allele. Specific PCR fragment of 365 bp in the B*356801 and the B*081203 alleles.

²⁵Primer mix 36: Specific PCR fragment of 110 bp in the b*3579 allele. Specific PCR fragment of 180 bp in the B*3570 allele. Specific PCR fragment of 230 bp in the B*3535 and the B*3820 and 3942 alleles.

²⁶Primer mix 38: Specific PCR fragment of 220 bp in the B*350902, 3518, 3531, 3564 and 3588 and the B*070201-070213, 070215-0767N, 0769-0799, 080102, 0806, 0820, 1321, 150302, 1533, 157802, 9507, 9516, 9541, 9550, 1821, 2701-2721, 2723-2759N, 3702, 3707, 3709, 400101-4013, 401403-4016, 4018-4025, 4027, 4029-4040, 4042-4070, 407202-4076, 4078-4081, 4083-4086, 4088-4094, 4096-4098, 4108, 4431, 4606, 47010101-4705, 480101, 480102, 480301-4811, 4813, 4815-4820, 510109, 5110, 512402, 5181, 5411, 5504, 5508, 5713 and 8101-8104N alleles.

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Specific PCR fragment of 300 bp in the B*350201-350203, 3581, 3583 and 3595 and the B*5319 alleles.

²⁷Primer mix 41: Specific PCR fragment of 105 bp in the B*3582, 3585 and B*1833, 391901-391902, 5122 and 7803 alleles. Specific PCR fragment of 130 bp in the B*3552 and 3592 alleles.

²⁸Primer mix 42: Specific PCR fragment of 115 bp in the B*3597 allele. Specific PCR fragment of 155 bp in the B*3553N allele. Specific PCR fragment of 190 bp in the B*3591 allele. Specific PCR fragment of 250 bp in the B*3565Q allele.

²⁹Primer mix 43: Specific PCR fragment of 205 bp in the B*3554 allele. Specific PCR fragment of 255 bp in the B*3589 allele.

³⁰Primer mix 44: Specific PCR fragment of 110 bp in the B*3578 allele. Specific PCR fragment of 145 bp in the B*1809, 3710, 4483, 5154, 5309 and 5311-5313 alleles. Specific PCR fragment of 300 bp in the B*3555 allele.

³¹Primer mix 46: Specific PCR fragment of 165 bp in the B*3531, 3535, 3543, 3546, 3557, 3560, 3579, 3587, 3589, 3596 and 3598 and the B*070201-0757, 0759-0799, 080101-0847, 130101-1304, 1306-1323, 1325-1330, 1401-1416, 15010101-150104, 150106-1519, 1521, 1523-1540, 1542-1558, 1560-1599, 9501, 9503-9529, 9531-9578, 180101-1815, 1817N-1845, 2701-2721, 2723-2759N, 370101-3719, 380101-3820, 39010101, 39010102L, 390103-3920, 3922-3945, 3947-3954, 400101-4016, 4018-4040, 4042-4098, 4101-4112, 420101-4202, 4204-4213, 44020101-4465, 4467-4488, 4501-4510, 460101-4622, 47010101-4705, 480101, 480102, 480301-4820, 490101-4907, 500101-5002, 5004-5009, 5142, 5207, 5401-5419, 550101, 550102, 550104-5505, 5507-5538, 560101-5604, 5606-5620, 5622-5626, 570101-5726, 580103, 5811, 5820, 5901-5905, 670101-6702, 8101, 8102, 8104N, 8201, 8202, 8301[?]. Specific PCR fragment of 165 and 385 bp in the B*350104, 350803, 3530, 3558, 3566, 356802 and 3597 and the B*5156 alleles. Specific PCR fragment of 385 bp in the B*3505 and 3589 and the B*5314 alleles. The B*7301 and Cw*0503 alleles may be weakly amplified by primer mix 46. This primer mix may also give rise to nonspecific amplifications.

³²Primer mixes 45 and 46: For many HLA-B alleles fourth exon nucleotide sequences are not available. We assume that unknown sequences in the fourth exon are conserved within allelic groups.

‘w’, might be weakly amplified.

‘?’, nucleotide sequence of the primer matching region not known.

INTERPRETATION TABLE																								
HLA-B*35 SSP subtyping																								
Amplification patterns of the B*3501 to B*3599 alleles																								
	Well ⁵																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	95	150	115	280	285	85	160	280	140	140	225	95	170	75	135	95	180	105	230	200	260	90	190	425
							330				240	125				190	385	180				270		
Length of int. pos. control ¹	800	1070	800	1070	800	1070	800	1070	800	1070	800	1070	800	800	1070	1070	1070	800	1070	1070	800	1070	800	1070
5'-primer(s) ²	206	355	412	419	397	419	142	419	363	49	355	206	527	355	463	112	106	206	106	141	49	209	379	49
	5'-gAC 5'	5'-TCA 5'	5'-ATg 5'	5'-gTC 5'	5'-gCT 5'	5'-gTA 5'	5'-TCA 5'	5'-gTT 5'	5'-gAC 5'	5'-CAG 5'	5'-TCA 5'	5'-gAC 5'	5'-TgA 5'	5'-TCA 5'	5'-TgA 5'	5'-CCg 5'	5'-CCA 5'	5'-gAC 5'	5'-CCA 5'	5'-ATT 5'	5'-Cag 5'	5'-ggC 5'	5'-ACC 5'	5'-Cag 5'
					412		368	419	363	388						206	320	419		412		355		
					5'-ATA 5'		5'-gTT 5'	5'-gTT 5'	5'-gAC 5'	5'-CCT 5'						5'-gAA 5'	5'-Cga 5'	5'-gTC 5'		5'-ATA 5'		5'-TCA 5'		
										742														
									5'-ACA 5'															
3'-primer(s) ³	259	463	486	3 rd	3 rd	463	259	3 rd	463	119	538	259	3 rd	387	559	259	246	272	292	309	142	259	527	301
	5'-gTT 5'	5'-gCT 5'	5'-gCg 5'	5'-TAT 5'	5'-TAT 5'	5'-gCT 5'	5'-gTT 5'	5'-TAT 5'	5'-gCT 5'	5'-ggA 5'	5'-CCg 5'	5'-CTC 5'	5'-TAT 5'	5'-TCC 5'	5'-CTC 5'	5'-gTT 5'	5'-Cga 5'	5'-Cgt 5'	5'-TCA 5'	5'-CTC 5'	5'-TgA 5'	5'-gTT 5'	5'-CCA 5'	5'-gTC 5'
										486		289					419	559	299	559		583	527	309
										916														
									5'-gAT 5'															
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-B allele ⁴																								
*350101-350103, 350105-350113	1	2	3	4																			23	
*350104	1	2	3	4																			23	
*350201-350203	1	2				6																	23	
*350301	1	2	3					8															23	
*350302	1	2						8															23	
*350401, 350402	1	2			5	6																	23	
*350403	1	2			5	6								14									23	
*3505	1		3	4					9														23	
*3506	1	2			5			8															23	
*3507	1	2	3	4						10													23	
*350801, 350802, 350804	1	2	3	4							11												23	
*350803	1	2	3	4							11												23	
*350901	1				5																		23	
*350902	1				5																		23	
*3510		2	3	4								12											23	
*3511	1	2	3	4									13											
*351201, 351202	1	2			5	6								14										
*3513		2	3					8				12											23	
*351401	1	2	3	4									13											
*351402	1	2		4									13											
*3515	1	2	3	4											15								23	
*3516		2	3	4					9			12												
*3517	1	2	3	4					9															
*3518	1				5						11												23	
*3519		2	3	4												16							23	
*352001, 352002	1	2	3	4													18						23	
*3521	1	2	3	4									13									22		
*3522	1				5	6			9															
*3523	1	2	3	4			7																23	
*3524	1	2	3	4																		22	23	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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[illegible]

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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*3525		2	3	4																	21		23	
*3526		2	3	4													17						23	
*3527	1	2	3	4																			23	
*3528		2	3	4								12						18					23	
*3529	1	2	3	4														19					23	
*3530	1	2	3	4					9														23	
*3531	1				5														20					
*3532	1		3	4																				
*3533	1	2	3					8							15								23	
*3534	1	2	3			6																	23	
*3535	1	2	3	4														18					23	
*3536	1	2	3					8									17						23	
*3537	1		3	4																			23	
*3538	1	2	3					8																
*3539	1	2	3			6								14										
*3540N	1	2	3	4																			23	
*3541	1	2	3	4																			23	
*3542	1	2	3	4																			23	
*3543	1			4										13										
*3544	1				5	6							13											
*3545	1	2	3	4							11												23	
*3546		2	3	4																	22		23	
*3547		2	3	4												16							23	
*3548	1	2	3	4																			23	
*3549		2	3	4																			23	
*3550	1	2	3	4																			23	
*3551	1		3	4					9															
*3552	1	2	3	4																			23	
*3553N	1		3	4																			23	
*3554	1	2	3	4																			23	
*3555	1	2	3					8															23	
*3556	1	2	3					8															23	
*3557	1	2	3	4																			23	
*3558	1		3	4					9				13											
*3559	1	2			5			8						14										
*3560	1				5			8															23	
*3561	1	2	3	4							11			14										
*3562	1	2	3	4																				
*3563		2	3	4																			23	
*3564	1			4																			23	
*3565Q	1	2	3					8															23	
*3566	1		3	4					9						15								23	
*3567	1			4									13											
*356801	1		3	4																			23	
*356802	1		3	4																			23	
*3569		2	3	4								12						19					23	
*3570	1	2	3					8															23	
*3571	1	2	3	4																			23	
*3572	1		3	4					9									18					23	
*3574	1	2	3					8											19				23	
*3575	1		3					8															23	
*3576		2	3	4														19					23	
*3577	1	2	3	4												16							23	
*3578	1	2	3	4																			23	
*3579	1			4										13										
*3580		2	3	4								11	12										23	
*3581	1	2				6															22		23	
*3582	1	2	3	4																			23	
*3583	1	2				6				10													23	
*3584	1	2	3				7	8															23	
*3585	1	2	3					8															23	
*3586	1			4									13		15									
*3587	1				5																			
*3588	1				5									14					20				23	
*3589	1		3	4					9														23	
*3590	1	2	3	4			7																23	
*3591	1	2	3	4																			23	
*3592	1	2	3	4								12											23	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
					30	31														45			48	*3525
					30															45				*3526
25																				45			48	*3527
																				45				*3528
							32													45			48	*3529
																				45	46		48	*3530
25													38								46		48	*3531
			28																	45			48	*3532
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																	42			45			48	*3554
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																				45			48	*3560
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										35										45			48	*356801
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											36									45			48	*3570
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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*3594	1	2	3	4						10													23	
*3595	1	2				6																	23	
*3596	1	2	3					8					13									22		
*3597	1		3	4					9														23	
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*070213			3										13											
*070214													13											
*070501-0706, 0740, 0753, 0769, 0780, 0790, 0797					5								13						20					
*0708													13											
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*0712											11		13											
*0714, 071801, 071802											11		13	14										
*0720													13											
*072202			3										13											
*0724, 0760													13											
*0725, 0748, 0751																								
*0729, 0765, 0772, 0786													13					19						
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*0738													13											
*0758													13											
*0768						6			9				13		15									
*0773, 4032, 4098													13											
*0778					5			8					13						20					
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*0802					5													w						
*0803, 0823					5																			
*0804, 0817, 0826, 5520					5													19						
*0806, 0820					5								13					19						
*0807			3															19						
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*0814																		19						
*0821, 0825					5													19						
*0828				4														19						
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*130201-130206, 1308Q, 1309, 1311, 1314, 1315, 1318, 1319, 1327, 1330					5			8							15				20				23	
*1303, 1586, 5402, 5510, 5518, 5623, 5901, 5904, 5905					5			8															23	
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*1306, 1312		2			5			8						14									23	
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*1313		2			5	6								14	15				20			23		
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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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			28																	45			48	*3599
25							32						38								46			*070201, 070202, 070204-070212, 070215-0704, 0707, 0710, 0713, 0715, 0719, 0721, 072201, 0723, 0726, 0728, 0730, 0731, 0733, 0735, 0736, 0739, 0741-0747, 0749N, 0752, 0754, 0755, 0757, 0759, 0761-0764, 0766, 0767N, 0770, 0771, 0774, 0776, 0777, 0779, 0781-0785, 0787-0789, 0792-0796, 0798, 0799
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25					30		32						38								46			*070213
							32														46			*070214
25							32						38								46			*070501-0706, 0740, 0753, 0769, 0780, 0790, 0797
25	26					31	32						38								46			*0708
25							32						38								46			*0709, 0711, 0717
25							32						38								46			*0712
25							32						38								46			*0714, 071801, 071802
25			28				32	33					38								46			*0720
25							32						38								46			*072202
25			28				32						38								46			*0724, 0760
25							32						38								46			*0725, 0748, 0751
25							32						38								46			*0729, 0765, 0772, 0786
25	26					31	32						38								46			*0732
25							32						38								46			*0734
25	26					31							38								46			*0738
25							32						38											*0758
							32														46			*0768
25													38	40							46			*0773, 4032, 4098
25							32						38								46			*0778
						31															46			*080101, 080103-080109, 0805, 0808N-081202, 0813, 0815, 0816, 0818, 0819N, 0822, 0824, 0827, 0829- 0831, 0833, 0834, 0836, 0838, 0839, 0841-0847
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						31															46			*0802
						31															46			*0803, 0823
																					46			*0804, 0817, 0826, 5520
25						31							38								46			*0806, 0820
						31															46			*0807
						31				35											46			*081203
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			28			31															46			*0821, 0825
						31															46			*0828
						31															46			*0832
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					30							37									46			*130101, 130102, 1307N, 1317, 132202, 1323, 1325, 1328, 1329
					30							37									46			*130201-130206, 1308Q, 1309, 1311, 1314, 1315, 1318, 1319, 1327, 1330
												37									46			*1303, 1586, 5402, 5510, 5518, 5623, 5901, 5904, 5905
				29																	46			*1304
												37									46			*1306, 1312
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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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*1321					5									14						20				
*132201		2			5			8						14	15					20			23	
*1326		2	3	4											15								23	
*1401-1404, 140601-1409, 1412, 1414-1416													13											
*1405									9				13											
*1410		2											13	14								22		
*1411													13				17		19					
*1413					5	6			9				13											
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*1505, 1551, 9523, 9536, 9551, 9576				4																				
*1506				4			7						13											
*1507, 1568, 9526				4					9				13											
*1508, 151101, 151102, 151104, 1515, 9548				4									13									22		
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*1510, 1537, 1590, 1599						6							13											
*151103				4									13									22		
*1512, 1519				4									13											
*1514, 1546				4									13											
*1516, 1567, 1595, 4905				4									13											
*15170101-151702, 9568, 9577													13											
*151802				4									13											
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*152501, 152502, 1536, 1580		2		4									13	14										
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*152701, 152702, 9509				4			7						13											
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*1531				4																		22		
*1533, 157802, 9516, 9541				4									13											
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*1540, 1547, 1549, 9538				4									13		15									
*1542, 5531					5			8					13											
*1545						6			9				13											
*1548					5	6																		
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*1553				4									13											
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*1573					5			8					13											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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*1583					5	6																		
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*1588		2		4										14								22		
*1591				4																				
*9502				4									13											
*9506		2		4									13	14										
*9507				4																				
*9517				4									13		15									
*9531, 9561				4									13											
*9533							8						13											
*9537													13											
*9543				4									13			16								
*9544		2		4									13	14								22		
*9550					5								13											
*9554		2		4									13	14										
*9555				4																				
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*1804	1		3	4														18						
*180701, 180702	1		3	4														18			21			
*1809	1		3	4														18			21			
*1810, 1835	1		3	4											15			18			21			
*1812			3	4								12						18			21			
*1814	1		3	4					9									18			21			
*1815, 1830	1		3	4									13					18			21			
*1819	1		3	4									13					18			21			
*1820	1			4														18			21			
*1821	1			4									13					18			21			
*1822	1	2	3	4					9									18			21	22	23	
*1826	1				5	6												18			21			
*1827	1		3	4			7											18			21			
*1829	1		3	4														18						
*1833	1		3	4														18			21			
*1836	1		3	4														18			21			
*1837			3	4														18			21			
*1841	1		3															18			21			
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*2707, 2743					5														20					24
*2708, 2712, 2726, 2742, 2744															15									
*2710, 2754													13		15									24
*2711					5														20					
*2714															15							23	24	
*2715													13											
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*2719, 2730		2												14	15									24
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*2723							7								15									
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*2727					5	6									15				20					24
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*2732									9						15									24
*2733					5														20					
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*2741				4											15									24
*2752, 4705															15									24
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
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														39							46			*1577
																					46			*1583
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														39							46			*1585
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			28					33													46			*1591
			28											39										*9502
								33													46			*9506
25			28											38							46			*9507
														39							46			*9517
			28					33													46			*9531, 9561
			28																		46			*9533
				29										39							46			*9537
			28											39							46			*9543
														39							46			*9544
25			28											38							46			*9550
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				29																	46			*9555
																					46			*180101-1802, 1805, 1806, 1808, 1811, 1813, 1817N, 1818, 1823N-1825, 1828, 1831, 1832, 1834, 1838-1840, 1842-1845
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																					46			*1804
26						31															46	48		*180701, 180702
																			44		46			*1809
				30																	46			*1810, 1835
																					46			*1812
																					46			*1814
														39							46			*1815, 1830
																					46			*1819
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																					46			*1827
26						31															46	48		*1829
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				30																	46			*1836
																					46			*1837
																					46			*1841
25				30										38							46			*2701, 2731, 2749
25				30										38							46			*2702, 2703, 270502-270512, 2709, 2713, 2716, 2717, 2729, 2735, 2737, 2739, 2745, 2746, 2748, 2750, 2751, 2753, 2755-2759N
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25				30										38							46			*2707, 2743
25				30										38	40						46			*2708, 2712, 2726, 2742, 2744
25				30										38							46			*2710, 2754
25				30										38							46			*2711
25				30										38							46			*2714
25				30										38							46			*2715
25				30										38	40						46			*2718, 2740
25				30										38							46			*2719, 2730
25				30										38							46			*2720, 2724
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25				30										38	39						46			*2725
25				30										38							46			*2727
25				30										38							46			*2728, 2734, 2738, 2747
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25				30										38	40						46			*2733
25				30										38							46			*2736
25				30										38							46			*2741
25														38							46			*2752, 4705
																					46			*370101-370105, 370107, 3703N, 3715-3718
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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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*3704		2										12						18			21	22		24
*3705		2										12						18			21			
*3707												12	13					18			21			24
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*3710		2										12						18			21			
*3711, 3714		2										12						18			21			
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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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																					46			*3704
25																					46			*3705
25													38								46			*3707
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25													38								46			*3709
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																					46			*3711, 3714
																					46			*3712
																					46			*3713
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																					46			*380101, 380103-3805, 3808, 3809, 3811-3815, 3817, 3818, 39010101, 39010102L, 390103-390202, 3905, 3908-391302, 3916, 3920, 3922, 3923, 3926-3928, 3930, 3931, 3938Q-3941, 3944, 3945, 3948, 3951-3954, 670101-6702
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26						31															46			*3806, 3807
																					46			*3810, 3918, 3935
	27																				46			*3816
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																					46			*3915, 3949
												37									46			*3917, 4415, 4418
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25													38								46			*4010, 4012, 4021, 4047, 4076, 4083, 4094, 4096, 480101, 480102, 480301-4804, 4809-4811, 4813, 4816, 4818-4820
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*4409, 4446, 4475		2												14										
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*4445, 4451		2	3											14										
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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25					?								38		40						46				*4046, 4093
25													38		40						46				*4051
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25													38		40						46				*4070
			28									37			40						46				*4071
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																					46				*4105, 4112, 4211
															40						46				*4110, 4503
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			28																		46				*4441, 4465, 9562
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							32							39							46				*4607N
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*510203, 5118	1				6								13						20					24
*5104, 5146	1	2			5	6							13	14					20		22			24
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*5161	1				5	6							13						20					24
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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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			28				32														46			*461301
			28				32														46			*461302, 4619
			28				32	33						39							46			*4617
							32														46			*4621
25													38								46			*47010101, 47010102
25													38		40						46			*4702
25													38		w						46			*4703
25													38								46			*4704
25													38								46			*4805, 4815
25	26					31							38								46			*4806
25													38								46			*4807
					30																46			*4812
																					46			*4814
25													38								46			*4817
												37									46			*490101-4902, 4906
												37									46			*4903
				29																	46			*4904
				30								37									46			*4907
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																					45		48	*5104, 5146
			28																		45		48	*5105, 510902
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														39							45		48	*5161
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

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*5312, 5313	1	2	3	4																			23	
*5314	1		3	4					9														23	24
*5316	1	2	3	4							11												23	24
*5317		2	3	4								12		14				18					23	24
*5318	1	2	3	4																			23	24
*5319	1	2				6																	23	24
*5401, 5403, 5405N, 5407, 5408N, 5410, 5413, 5417-5419, 550201- 550205, 5507, 5512, 5516, 5519, 5526, 5530, 5534, 5537, 560101, 560102, 5608, 5610, 5614, 5616, 5617, 5619N, 5624, 5626						5		8											19				23	
*5404, 5615					5	6													19				23	
*5409, 5618			3	4														18	19					
*5411					5														19				23	
*5412, 5607					5			8											w				23	
*5414, 5523			3	4														18	19				23	
*5415																			19				23	
*5416			3					8											19				23	
*550101, 550102, 550104-550106, 5503, 5505, 5511, 5515, 5525, 5529, 5533, 5536, 5538, 5625					5			8					13						19					
*550103					5			8					13						19					
*5504					5														19					
*5508					5	8													19					
*5509, 5524					5			8					13		15				19	20				
*5513, 5622					5			8											19				23	
*5514		2	3	4									13	14				18	19					
*5517, 5528					5	6							13						19					
*5521					5			8					13						19					
*5522					5			8							15				19	20			23	
*5527			3			6													19				23	
*5532				4	5														19				23	
*5535					5			8											19			w	23	
*5602					5			8											19				23	
*5604					5			8											19					
*560501, 560502					5	6							13						19					
*5606					5	6							13						19					
*5609		2	3	4															19				23	
*5611		2	3					8											19				23	
*5612		2			5	6								14					19					
*5613					5			8											19					
*5620					5			8											19				23	
*5621					5	6							13						w					
*570101-570104, 5706, 5708, 5710, 5715, 5716, 5718, 5720, 5723, 5724		2		4										14										24
*570105				4										14										24
*5702		2			5	6					11			14										24
*570301, 570302, 5717		2			5	6								14										24
*5704		2									11			14										24
*5705		2				6					11												23	24
*5707		2			5	6								14										24
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
					30															45				*5208
																				45				*5210
																				45				*5212
				29																45				*5214
									33											45				*5215
					30															45				*5216
																				45		48		*530101, 530102, 530104, 530105, 5303, 5305, 5310, 5315
																				45		48		*530103
																				45		48		*5302
																				45		48		*5304
																				45		48		*5306
									34											45		48		*5307
																				45		48		*5308
																			44	45				*5309
																			44	45		48		*5311
																			44	45		48		*5312, 5313
			28																	45	46		48	*5314
																				45			48	*5316
																				45				*5317
																						48		*5318
													38							45			48	*5319
												37									46			*5401, 5403, 5405N, 5407, 5408N, 5410, 5413, 5417-5419, 550201- 550205, 5507, 5512, 5516, 5519, 5526, 5530, 5534, 5537, 560101, 560102, 5608, 5610, 5614, 5616, 5617, 5619N, 5624, 5626
																				46				*5404, 5615
																				46				*5409, 5618
25													38							46				*5411
												37								46				*5412, 5607
				29																46				*5414, 5523
																				46				*5415
																				46				*5416
												37								46				*550101, 550102, 550104-550106, 5503, 5505, 5511, 5515, 5525, 5529, 5533, 5536, 5538, 5625
												37												*550103
25													38							46				*5504
25			28										38							46				*5508
				30								37								46				*5509, 5524
				29																46				*5513, 5622
																				46				*5514
												37		39						46				*5517, 5528
												37								46				*5521
												37								46				*5522
																				46				*5527
				29																46				*5532
							32					37								46				*5535
			28									37								46				*5602
			28									37								46				*5604
									32											45				*560501, 560502
																				46				*5606
																				46				*5609
																				46				*5611
																				46				*5612
												37								46	47			*5613
																				46				*5620
																				45				*5621
																				46				*570101-570104, 5706, 5708, 5710, 5715, 5716, 5718, 5720, 5723, 5724
																				46				*570105
																				46				*5702
																				46				*570301, 570302, 5717
																				46				*5704
																				46				*5705
																				46				*5707
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*5709		2			5	6							13	14										24
*5711, 5721				4																				24
*5712		2			5	6					11			14										
*5713				4							11		13	14										24
*5714		2	3	4										14								22		24
*5719		2		4							11			14										24
*5722		2		4									13	14										24
*5725		2		4										14	15									24
*5726		2		4										14				18						24
*580101, 580102, 5804, 5813-5815, 5821, 5823, 5824		2	3	4																			23	24
*580103			3	4																			23	24
*5802			3	4																			23	24
*5805		2	3	4														18						24
*5806			3	4									13											24
*5807			3	4																			23	24
*5809		2	3	4																	22	23	24	
*5810N		2	3	4																				24
*5811		2	3	4																			23	24
*5812		2	3	4																	21		23	24
*5816			3	4																			23	24
*5818			3	4					9														23	24
*5819		2	3	4									13											24
*5820					5			8																24
*5822		2	3	4							11												23	24
*5902					5																		23	
*5903					5			8															23	
*7301							w																	
*7801	1				5	6							13					19						
*780201, 780202	1				5	6							13											
*7803	1				5	6							13					19						
*7804	1				5	6																		
*7805					5	6						12	13					18						
*7806					5	6						12	13					18						
*8101					5														20	21				
*8102					5														20					
*8103					5														20	?				
*8104N					5														20	?				
*8201, 8202					5		7	8																
*8301		2												14				19		21				
A*0141											w													
Cw*0110, Cw*0715																								
Cw*0203, Cw*0434, Cw*0512																							23	
Cw*0305, 0325, 0327																								
Cw*0328, 0349, Cw*0510, Cw*1508											11													
Cw*0620																								
Cw*070401-070403, 0711, 0712, 0745																								
Cw*0763										10														
Cw*1509, 1519, 1520																		18						
HLA-B allele ⁴																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells. Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*35 subtyping. . In addition, wells number 3, 5, 7, 9, 11, 13, 14, 18, 21, 23, 25, 26, 28, 30, 34, 36, 42, 45 and 47 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
																					46			*5709
																					46			*5711, 5721
																					46			*5712
25													38								46			*5713
																					46			*5714
																					46			*5719
																					46			*5722
																					46			*5725
																					46			*5726
																				45				*580101, 580102, 5804, 5813-5815, 5821, 5823, 5824
																				45	46			*580103
																				45				*5802
																				45				*5805
																				45				*5806
								33												45				*5807
																				45				*5809
																				45				*5810N
																					46			*5811
																				45				*5812
			28																	45				*5816
			28																	45				*5818
																				45				*5819
																					46			*5820
																				45				*5822
																					46			*5902
																					46			*5903
		w		29			32																	*7301
				29			32													45		48		*7801
																				45		48		*780201, 780202
							32									41				45				*7803
																				45		48		*7804
																				45				*7805
25																				45				*7806
25					30		32						38								46			*8101
25							32						38								46			*8102
25					?		32						38							45				*8103
25					?		32						38								46			*8104N
								33				37									46	47		*8201, 8202
					30		32													?	?			*8301
																								A*0141
					w																			Cw*0110, Cw*0715
																								Cw*0203, Cw*0434, Cw*0512
			28																					Cw*0305, 0325, 0327
																								Cw*0328, 0349, Cw*0510, Cw*1508
													39											Cw*0620
																					w			Cw*070401-070403, 0711, 0712, 0745
																					w			Cw*0763
																								Cw*1509, 1519, 1520
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	HLA-B allele ⁴
																								Well No.

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

³The nucleotide position, in the 2nd, 3rd or 4th exon or the 3rd intron, 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.

⁴The B*3573 allele has been renamed to B*350803.

⁵Primer mix 7: Specific PCR fragment of 160 bp in the B*3584 and 3590 and the B*2723, 3816, 4008, 4025, 4068, 4412, 7301^w alleles. Specific PCR fragment of 330 bp in the B*3523 and the B*1506, 152701-152703, 1584, 1827, 9509, 4410, 47010101-4703, 8201 and 8202 alleles.

Primer mix 10: Specific PCR fragment of 140 bp in the B*3583 and the Cw*0763 alleles. Specific PCR fragment of 240 bp in the B*3507 allele. Specific PCR fragment of 310 bp in the B*3594 allele.

Primer mix 12: Specific PCR fragment of 95 bp in the B* 3510, 3513, 3516, 3528, 3569 and 3580 and the B*1812, 370101-370105, 370107-3705, 3707, 3709-3719, 4483, 4903, 520101-520105, 5203-5215, 5317, 7805 and 7806 alleles. Specific PCR fragment of 125 bp in the B*3592 allele.

Primer mix 16: Specific PCR fragment of 95 bp in the B*3519, 3547 and B*9543, 4008, 4025, 4068 and 4412 alleles. Specific PCR fragment of 190 bp in the B*3577 allele.

Primer mix 17: Specific PCR fragment of 180 bp in the B*3526 and the B*1411 and 3904 alleles. Specific PCR fragment of 385 bp in the B*3536 allele.

Primer mix 18: Specific PCR fragment of 105 bp in the B*352001, 352002, 3528 and 3572 and in the B*1810, 1821 1835, 1836, 1841, 370101-370105, 370107-3705, 3707-3719, 4483, 4903, 5107, 520101-520105, 5203-5205, 5207-5215, 5309, 5317, 7805 and 7806 alleles. Specific PCR fragment of 180 bp in the B*3535 and 3593 and in the B**0837, 1550, 1569, 1593, 1807, 1827-1829, 1833 1837, 3907, 3943, 4209, 4603, 4621, 5409, 5414, 5514, 5523, 5618, 5726, 5805, Cw*1509, Cw*1519 and Cw*1520 alleles. Specific PCR fragment of 105 and 180 bp in the B*180101-1806, 1808, 1809, 1811-1815, 1817N-1820, 1822-1825 1830-1832, 1834, 1838-1840 and 1842-1845 alleles.

Primer mix 22: Specific PCR fragment of 90 bp in the B*3546 and the B*150201, 150202, 1508, 151101-151104, 1513, 1515, 1521, 1531, 1544, 1555, 1576^w, 1588, 1589, 5535^w, 9512, 9521, 9539, 9544, 9548 and 9570 alleles. Specific PCR fragment of 270 bp in the B*3521, 3524, 3581 and 3596 and the B*1410, 1822, 3704, 4028, 5104, 5146, 5156, 5302, 5306, 5714 and 5809 alleles.

Primer mix 25: Specific PCR fragment of 135 bp in the B*3527 and 3556 and the B*3705 and 7806 alleles. Specific PCR fragment of 220 bp in the 350902, 3518, 3531, 3564 and 3588 and the B*070201-070213, 070215-0767N, 0769-0799, 080102, 0806, 0820, 1321, 150302, 1533, 157802, 9507, 9516, 9541, 9550, 1821, 2701-2721, 2723-2751, 2753-2759N, 3702, 3707, 3709, 400101-4013, 401403-4016, 4018-4025, 4027, 4029-4040, 4042-4070, 407202-4076, 4078-4081, 4083-4086, 4088-4094, 4096-4098, 4108, 4431, 4606, 47010101-4705, 480101, 480102, 480301-4811, 4813, 4815-4820, 510109, 5110, 512402, 5411, 5504, 5508, 5713 and 8101-8104N alleles. Specific PCR fragment of 135 and 220 bp in the B*2752 and 5181 alleles.

Primer mix 26: Specific PCR fragment of 210 bp in the B*3550 and 3584 and the B*0708, 0732, 0738, 3806, 3807, 4806 and 5157 alleles. Specific PCR fragment of 370 bp in the B* 3542 allele. Specific PCR fragment of 210 and 370 bp in the B*180701, 180702, 1829, 2723, 4008, 4013 and 4068 alleles.

Primer mix 27: Specific PCR fragment of 110 bp in the B*3541 allele. Specific PCR fragment of 160 bp in the B*3584 and 3590 and the B*2723, 3816, 4008, 4025, 4068, 4412 and 7301^w alleles.

Primer mix 30: Specific PCR fragment of 115 bp in the B*3515, 3533 and 3566 and the B*070213, 0840, 130101-130206, 1307N-1311, 1313-1321, 132202, 1323, 1325-1330, 1810, 1835, 3947, 3950, 401401, 407201, 4077, 4095, 4416, 4421, 446401, 446402, 4510, 4812, 4907, 5116, 5131, 5134, 5182, 5208, 5509, 5522, 5524, Cw*0110^w and Cw*0715^w alleles. Specific PCR fragment of 325 bp in the B*3525, 3526 and 3549 and the B*1837, 2701-2721, 2723-2751, 2753-2759N, 4046[?], 4093[?], 4440, 4444, 5216, 8101, 8103[?], 8104N[?] and 8301 alleles.

Primer mix 31: Specific PCR fragment of 170 bp in the B*3525 and the B*080101-0803, 0805-0816, 0818-0825, 0827-0847 and 1529 alleles. Specific PCR fragment of 210 bp in the B*3550, 3584 and B*1829, 2723, 4008, 4013, 4068 and 5157 alleles. Specific PCR fragment of 170 and 210 bp in the B*0708, 0732, 0738, 180701, 180702, 3806, 3807 and 4806 alleles.

Primermix 33: Specific PCR fragment of 70 bp in the B*3547 and the B*1546, 9506, 400204 and 4484 alleles. Specific PCR fragment of 205 bp in the B*3545 and 3571 and the B*0720, 1514, 1591, 9531, 9561, 4410, 4414, 4417, 4431, 4443, 4445, 4451, 4462, 4477, 4482, 4509, 4617, 5123, 5215, 5707, 5807, 8201 and 8202 alleles. Specific PCR fragment of 310 bp in the B*3594 allele.

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Primer mix 35: Specific PCR fragment of 240 bp in the B*3540N allele. Specific PCR fragment of 365 bp in the B*356801 and the B*081203 alleles.

Primer mix 36: Specific PCR fragment of 110 bp in the b*3579 allele. Specific PCR fragment of 180 bp in the B*3570 allele. Specific PCR fragment of 230 bp in the B*3535 and the B*3820 and 3942 alleles.

Primer mix 38: Specific PCR fragment of 220 bp in the B*350902, 3518, 3531, 3564 and 3588 and the B*070201-070213, 070215-0767N, 0769-0799, 080102, 0806, 0820, 1321, 150302, 1533, 157802, 9507, 9516, 9541, 9550, 1821, 2701-2721, 2723-2759N, 3702, 3707, 3709, 400101-4013, 401403-4016, 4018-4025, 4027, 4029-4040, 4042-4070, 407202-4076, 4078-4081, 4083-4086, 4088-4094, 4096-4098, 4108, 4431, 4606, 47010101-4705, 480101, 480102, 480301-4811, 4813, 4815-4820, 510109, 5110, 512402, 5181, 5411, 5504, 5508, 5713 and 8101-8104N alleles. Specific PCR fragment of 300 bp in the B*350201-350203, 3581, 3583 and 3595 and the B*5319 alleles.

Primer mix 41: Specific PCR fragment of 105 bp in the B*3582, 3585 and B*1833, 391901-391902, 5122 and 7803 alleles. Specific PCR fragment of 130 bp in the B*3552 and 3592 alleles.

Primer mix 42: Specific PCR fragment of 115 bp in the B*3597 allele. Specific PCR fragment of 155 bp in the B*3553N allele. Specific PCR fragment of 190 bp in the B*3591 allele. Specific PCR fragment of 250 bp in the B*3565Q allele.

Primer mix 43: Specific PCR fragment of 205 bp in the B*3554 allele. Specific PCR fragment of 255 bp in the B*3589 allele.

Primer mix 44: Specific PCR fragment of 110 bp in the B*3578 allele. Specific PCR fragment of 145 bp in the B*1809, 3710, 4483, 5154, 5309 and 5311-5313 alleles. Specific PCR fragment of 300 bp in the B*3555 allele.

Primer mix 46: Specific PCR fragment of 165 bp in the B*3531, 3535, 3543, 3546, 3557, 3560, 3579, 3587, 3589, 3596 and 3598 and the B*070201-0757, 0759-0799, 080101-0847, 130101-1304, 1306-1323, 1325-1330, 1401-1416, 15010101-150104, 150106-1519, 1521, 1523-1540, 1542-1558, 1560-1599, 9501, 9503-9529, 9531-9578, 180101-1815, 1817N-1845, 2701-2721, 2723-2759N, 370101-3719, 380101-3820, 39010101, 39010102L, 390103-3920, 3922-3945, 3947-3954, 400101-4016, 4018-4040, 4042-4098, 4101-4112, 420101-4202, 4204-4213, 44020101-4465, 4467-4488, 4501-4510, 460101-4622, 47010101-4705, 480101, 480102, 480301-4820, 490101-4907, 500101-5002, 5004-5009, 5142, 5207, 5401-5419, 550101, 550102, 550104-5505, 5507-5538, 560101-5604, 5606-5620, 5622-5626, 570101-5726, 580103, 5811, 5820, 5901-5905, 670101-6702, 8101, 8102, 8104N, 8201, 8202, 8301[?]. Specific PCR fragment of 165 and 385 bp in the B*350104, 350803, 3530, 3558, 3566, 356802 and 3597 and the B*5156 alleles. Specific PCR fragment of 385 bp in the B*3505 and 3589 and the B*5314 alleles. The B*7301 and Cw*0503 alleles may be weakly amplified by primer mix 46. This primer mix may also give rise to nonspecific amplifications.

‘w’, might be weakly amplified.

‘?’, nucleotide sequence of the primer matching region not known.

CELL LINE VALIDATION SHEET																					
HLA-B*35 SSP subtyping																					
					Well																
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:		200966701	200735402	200735403	200735404	200966705	200735406	200966707	200735408	200849109	200966710	200735411	200966712	200735413	200735414	200735415	200735416
	IHWC cell line	B*																			
1	9001 SA	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
2	9280 LK707	*5201	*7301		-	-	-	-	+	+	-	-	-	-	-	-	+	+	-	-	-
3	9011 E4181324	*52011			-	-	-	-	+	+	-	-	-	-	-	-	+	+	-	-	-
4	9275 GU373	*1510	*5301		+	+	+	+	-	+	-	-	-	-	-	-	-	+	-	-	-
5	9009 KAS011	*3701			-	+	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
6	9353 SM	*3901	*5101		+	-	-	-	+	+	-	-	+	-	-	-	-	+	-	-	-
7	9020 QBL	*1801			+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*3501			+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*3801			-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
10	9107 LKT3	*5401			-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
11	9051 PITOUT	*4403			-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
12	9052 DBB	*5701			-	+	-	+	-	-	-	-	-	-	-	-	-	-	+	-	-
13	9004 JESTHOM	*2705			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
14	9071 OLGA	*1501	*1520		-	+	+	+	-	-	-	-	-	-	-	-	-	+	+	-	-
15	9075 DKB	*4001			-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*4002			-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*0801	*5501		-	-	-	-	+	-	-	-	+	-	-	-	-	+	-	-	-
18	9257 32367	*1401	*5601		-	-	-	-	+	-	-	-	+	-	-	-	-	+	+	-	-
19	9038 BM16	*1801			+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*4001			-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*1501			-	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
22	9056 KOSE	*3503			+	+	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-
23	9124 IHL	*4002	*5602		-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
24	9035 JBUSH	*3801			-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
25	9049 IBW9	*1402			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
26	9285 WT49	*5801			-	+	+	+	-	-	-	-	-	-	-	-	-	-	+	-	-
27	9191 CH1007	*0705	*5101		+	-	-	-	+	+	-	-	-	-	-	-	-	+	-	-	-
28	9320 BEL5GB	*4402	*4403		-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
29	9050 MOU	*4403			-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
30	9021 RSH	*4201			-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*1801			+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*4102			-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*4001			-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-
34	9104 DHIF	*3801			-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
35	9302 SSTO	*4402			-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
36	9024 KT17	*1501	*3501		+	+	+	+	-	-	-	-	-	-	-	-	-	+	-	-	-
37	9065 HHKB	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
38	9099 LZL	*1501			-	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
39	9315 CML	*0801	*2705		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
40	9134 WHONP199	*1302	*4601		-	-	-	+	+	-	-	-	+	-	-	-	-	+	-	+	-
41	9055 H0301	*1402			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
42	9066 TAB089	*4601			-	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
43	9076 T7526	*4601			-	-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
44	9057 TEM	*3801			-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
45	9239 SHJO	*4201	*5001		-	-	-	-	+	-	-	-	-	-	-	-	-	+	+	-	-
46	9013 SCHU	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
47	9045 TUBO	*5101			+	-	-	-	+	+	-	-	-	-	-	-	-	+	-	-	-
48	9303 TER-ND	*3501	*4403		+	+	+	+	-	-	-	-	-	-	-	-	-	-	+	-	-

[illegible]

CELL LINE VALIDATION SHEET																						
HLA-B*35 SSP subtyping																						
					Well																	
						33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:		200966733	200735434	200735435	200849136	200735437	200735438	200735440	200735440	200966741	200966742	200966743	200849144	200735445	200966746	200966747	200735448	
	IHC cell line		B*																			
1	9001	SA	*0702			-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	
2	9280	LK707	*5201		*7301	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	
3	9011	E4181324	*52011			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	
4	9275	GU373	*1510		*5301	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	
5	9009	KAS011	*3701			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
6	9353	SM	*3901		*5101	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	
7	9020	QBL	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
8	9025	DEU	*3501			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	
9	9026	YAR	*3801			-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	
10	9107	LKT3	*5401			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
11	9051	PITOUT	*4403			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
12	9052	DBB	*5701			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
13	9004	JESTHOM	*2705			-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	
14	9071	OLGA	*1501		*1520	-	-	-	-	-	-	+	-	-	-	-	-	+	+	-	-	
15	9075	DKB	*4001			-	-	-	-	-	+	-	+	-	-	-	-	-	+	-	-	
16	9037	SWEIG007	*4002			-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-	
17	9282	CTM3953540	*0801		*5501	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	
18	9257	32367	*1401		*5601	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	
19	9038	BM16	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
20	9059	SLE005	*4001			-	-	-	-	-	+	-	+	-	-	-	-	-	+	-	-	
21	9064	AMALA	*1501			-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-	
22	9056	KOSE	*3503			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	
23	9124	IHL	*4002		*5602	-	-	-	-	+	+	-	+	-	-	-	-	-	-	+	-	-
24	9035	JBUSH	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
25	9049	IBW9	*1402			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
26	9285	WT49	*5801			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	
27	9191	CH1007	*0705		*5101	-	-	-	-	-	+	-	-	-	-	-	-	+	+	-	+	
28	9320	BEL5GB	*4402		*4403	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
29	9050	MOU	*4403			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
30	9021	RSH	*4201			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
31	9019	DUCAF	*1801			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
32	9297	HAG	*4102			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
33	9098	MT14B	*4001			-	-	-	-	-	+	-	+	-	-	-	-	-	+	-	-	
34	9104	DHIF	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
35	9302	SSTO	*4402			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
36	9024	KT17	*1501		*3501	-	-	-	-	-	-	+	-	-	-	-	-	+	+	-	+	
37	9065	HHKB	*0702			-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	
38	9099	LZL	*1501			-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-	
39	9315	CML	*0801		*2705	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	
40	9134	WHONP199	*1302		*4601	-	-	-	-	+	-	+	-	-	-	-	-	-	+	-	-	
41	9055	H0301	*1402			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
42	9066	TAB089	*4601			-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-	
43	9076	T7526	*4601			-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-	
44	9057	TEM	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
45	9239	SHJO	*4201		*5001	-	-	-	-	+	-	-	+	-	-	-	-	-	+	-	-	
46	9013	SCHU	*0702			-	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	
47	9045	TUBO	*5101			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	
48	9303	TER-ND	*3501		*4403	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	

CERTIFICATE OF ANALYSIS**Olerup SSP® HLA-B*35 SSP****Product number:** 101.522-24/03 – including *Taq* pol.**Lot number:** 58G**Expiry date:** 2011-December -01**Number of tests:** 24 tests – Product No. 101.522-24

3 tests – Product No. 101.522-03

Number of wells per test: 48**Well specifications:**

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-667-01	17	2007-354-17	33	2009-667-33
2	2007-354-02	18	2009-667-18	34	2007-354-34
3	2007-354-03	19	2007-354-19	35	2007-354-35
4	2007-354-04	20	2007-354-20	36	2008-491-36
5	2009-667-05	21	2007-354-21	37	2007-354-37
6	2007-354-06	22	2007-354-22	38	2007-354-38
7	2009-667-07	23	2007-354-23	39	2007-354-39
8	2007-354-08	24	2009-667-24	40	2007-354-40
9	2008-491-09	25	2008-491-25	41	2009-667-41
10	2009-667-10	26	2009-667-26	42	2009-667-42
11	2007-354-11	27	2009-667-27	43	2009-667-43
12	2009-667-12	28	2007-354-28	44	2008-491-44
13	2007-354-13	29	2007-354-29	45	2007-354-45
14	2007-354-14	30	2007-354-30	46	2009-667-46
15	2007-354-15	31	2007-354-31	47	2009-667-47
16	2007-354-16	32	2007-354-32	48	2007-354-48

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 10, 33, 35, 36 and 41 to 44 were available. The specificities of the primers in primer solutions 10, 33, 35, 36, 41, 43 and 44 were tested by separately adding one or two additional 5'-primer(s), respectively one or two additional 3'-primer(s). In primer solution 42 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 10, 16, 33, 35, 36 and 43 one or two of the 5'-primers were not possible to test, and in primer solutions 10, 12, 35, 41, 43 and 44 one or two of the 3'-primers were not possible to test. Additional primers in primer solutions 22, 25, 26 and 31 were tested by separately adding one 5'-primer and/or one 3'-primer.

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

Date of approval: 2010-May-05

Approved by:

Quality Control, Supervisor

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*35
Product number: 101.522-24/03
Lot number: 58G

Intended use: HLA-B*35 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-05

Olle Olerup
Managing Director

Lot No.: **58G**

Lot-specific Information

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