

Olerup SSP[®] HLA-B*35

Product number:	101.522-24u/03u – without <i>Taq</i> pol.
Lot number:	58G
Expiry date:	2011-December-01
Number of tests:	24 tests – Product No. 101.522-24u 3 tests – Product No. 101.522-03u
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:

- 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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Lot-specific Information

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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 = 3557,3595
+++++--- -+++++ -+++++ -+++++ -+++++--- -+++++--- 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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+++++---+ - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + 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
++++-----	-----+	-----+	-----	-----	-----	+++++---+ 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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++++----- +-----+ +-----+ +-----+ +-----+ +-----+ 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, 3595
+++++---- +-----+----- -+++++---- -+++++---- -+++++---- -+++++---- 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
1 ⁵	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
6⁵	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 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
Length of int. pos. control ¹																								
5'-primer(s) ²																								
3'-primer(s) ³																								
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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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																				
*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
25					30															45			48	*3526
																				45			48	*3527
																				45				*3528
							32													45			48	*3529
25													38							45	46		48	*3530
			28																	45	46		48	*3531
					30															45			48	*3532
																				45			48	*3533
											36									45			48	*3534
																				45	46		48	*3535
																				45			48	*3536
				29																45			48	*3537
																				45	47		48	*3538
																				45			48	*3539
										35										45			48	*3540N
	27																			45			48	*3541
26																				45			48	*3542
			28											39							46		48	*3543
			28											39						45			48	*3544
								33												45			48	*3545
																				45	46		48	*3546
								33												45			48	*3547
									34											45			48	*3548
					30															45			48	*3549
26					31															45			48	*3550
			28																	45			48	*3551
																41				45			48	*3552
																	42			45			48	*3553N
																		43		45			48	*3554
25																			44	45			48	*3555
																				45			48	*3556
																					46		48	*3557
			28																	45	46		48	*3558
																				45			48	*3559
												37									46		48	*3560
														39						45			48	*3561
															40					45			48	*3562
25														38						45			48	*3563
																		42		45			48	*3564
					30															45	46		48	*3565Q
			28																	45			48	*3566
														39						45			48	*3567
										35										45			48	*356801
			28																	45	46		48	*356802
							32													45			48	*3569
											36									45			48	*3570
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			28																	45			48	*3572
																				45			48	*3574
																				45			48	*3575
							32													45			48	*3576
																				45			48	*3577
																			44	45			48	*3578
			28								36				39						46		48	*3579
																				45			48	*3580
														38						45			48	*3581
																41				45			48	*3582
														38						45			48	*3583
26	27					31														45			48	*3584
																41				45			48	*3585
															39					45			48	*3586
25															38						46		48	*3587
																				45			48	*3588
			28																	45	46		48	*3589
		27																		45			48	*3590
																				45			48	*3591
																41				45			48	*3592
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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*3593	1	2	3	4														18					23	
*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
*3598	1	2	3					8																23
*3599	1			4										13										
*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														13										
*070203, 0716, 0727, 0737, 0750, 0756, 0775, 0791, 4808														13										
*070213			3											13										
*070214														13										
*070501-0706, 0740, 0753, 0769, 0780, 0790, 0797						5								13							20			
*0708														13										
*0709, 0711, 0717				4										13										
*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				
*0732						5								13							20			
*0734						5								13										
*0738														13										
*0758														13										
*0768						6			9					13	15									
*0773, 4032, 4098														13										
*0778						5		8						13								20		
*080101, 080103-080109, 0805, 0808N-081202, 0813, 0815, 0816, 0818, 0819N, 0822, 0824, 0827, 0829- 0831, 0833, 0834, 0836, 0838, 0839, 0841-0847						5															19			
*080102						5															19			
*0802						5															w			
*0803, 0823						5																		
*0804, 0817, 0826, 5520						5															19			
*0806, 0820						5								13							19			
*0807				3																	19			
*081203						5															19			
*0814																					19			
*0821, 0825						5															19			
*0828				4																	19			
*0832	1					5															19			
*0835				4		5															19			
*0837				3	4																18	19		
*0840						5															19	20		
*130101, 130102, 1307N, 1317, 132202, 1323, 1325, 1328, 1329			2			5		8						14	15						20			23
*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
*1304				4																				23
*1306, 1312		2				5		8						14										23
*1310				4																	15			
*1313		2				5	6							14	15						20			23
*1316						5		8						13	15						20			
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.
																				45			48	*3593
								33												45			48	*3594
													38							45				*3595
																				45	46		48	*3596
			28														42			45	46		48	*3597
																				45	46		48	*3598
			28																	45			48	*3599
25							32						38											*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
25													38											*070203, 0716, 0727, 0737, 0750, 0756, 0775, 0791, 4808
25					30		32						38											*070213
							32																	*070214
25							32						38											*070501-0706, 0740, 0753, 0769, 0780, 0790, 0797
25	26					31	32						38											*0708
25							32						38											*0709, 0711, 0717
25							32						38											*0712
25							32						38											*0714, 071801, 071802
25			28				32	33					38											*0720
25							32						38											*072202
25			28				32						38											*0724, 0760
25							32						38											*0725, 0748, 0751
25							32						38											*0729, 0765, 0772, 0786
25	26					31	32						38											*0732
25							32						38											*0734
25	26					31							38											*0738
25							32						38											*0758
							32																	*0768
25													38		40									*0773, 4032, 4098
25							32						38											*0778
																								*080101, 080103-080109, 0805, 0808N-081202, 0813, 0815, 0816, 0818, 0819N, 0822, 0824, 0827, 0829-0831, 0833, 0834, 0836, 0838, 0839, 0841-0847
25						31							38											*080102
							31																	*0802
							31																	*0803, 0823
																								*0804, 0817, 0826, 5520
25							31						38											*0806, 0820
							31																	*0807
							31			35														*081203
							31																	*0814
			28				31																	*0821, 0825
							31																	*0828
							31																	*0832
							31																	*0835
							31																	*0837
						30	31																	*0840
						30							37											*130101, 130102, 1307N, 1317, 132202, 1323, 1325, 1328, 1329
						30							37											*130201-130206, 1308Q, 1309, 1311, 1314, 1315, 1318, 1319, 1327, 1330
													37											*1303, 1586, 5402, 5510, 5518, 5623, 5901, 5904, 5905
				29																				*1304
													37											*1306, 1312
						30																		*1310
						30																		*1313
						30							37											*1316
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
*1320		2			5			8					13	14	15					20				
*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											
*15010101-150104, 150106-150112, 1524, 1528, 1534, 1535, 153801, 1543, 1554, 1556, 1557, 1560, 1566, 1571, 1579N, 1581, 1582, 1587, 1592, 1594N, 1596, 1597, 9504, 9513, 9518, 9520, 9522, 9525, 9528, 9535, 9540, 9542, 9546, 9547, 9549N, 9552, 9557, 9559, 9560, 9563-9567, 9569, 9571, 9572, 9574, 9575, 9578				4									13											
*150201, 150202, 1513, 1521, 1544, 1589, 9512, 9521, 9539, 9570		2		4									13	14								22		
*150301, 150303, 151801, 151803, 1523, 1539, 1564, 1565, 1572, 1574, 157801, 1598, 9503, 9508, 9515, 9519, 9527, 9532, 9534, 9553, 9556, 9558, 9573				4									13											
*150302			3	4									13											
*1504				4									13											
*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		
*1509					5	6							13											
*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											
*1520, 4802, 5817N		2	3	4																			23	
*152501, 152502, 1536, 1580		2		4									13	14										
*1526N, 1532, 9510, 9529				4									13											
*152701, 152702, 9509				4			7						13											
*152703			3	4			7						13											
*1529				4									13											
*1530					5	6							13											
*1531				4																		22		
*1533, 157802, 9516, 9541				4									13											
*153802			3	4									13											
*1540, 1547, 1549, 9538				4									13		15									
*1542, 5531					5			8					13											
*1545						6			9				13											
*1548					5	6																		
*1550				4									13					18						
*1552, 9514, 9524				4											15									
*1553				4									13											
*1555				4					9													22		
*1558					5			8					13											
*1561				4									13						19					
*1562		2		4									13											
*1563						6							13											
*1569, 1593				4									13					18						
*1570, 9501, 460101, 4604, 4610, 4614-4616, 4620, 4622, 5603				4									13						19					
*1573					5			8					13											

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					30							37										46			*1320
25					30								38									46			*1321
												37										46			*13201
					30																	46			*1326
																						46			*1401-1404, 140601-1409, 1412, 1414
																						46			1416
																						46			*1405
																						46			*1410
																						46			*1411
																						46			*1413
			28											39								46			*15010101-150104, 150106-150112, 1524, 1528, 1534, 1535, 153801, 1543, 1554, 1556, 1557, 1560, 1566, 1571, 1579N, 1581, 1582, 1587, 1592, 1594N, 1596, 1597, 9504, 9513, 9518, 9520, 9522, 9525, 9528, 9535, 9540, 9542, 9546, 9547, 9549N, 9552, 9557, 9559, 9560, 9563-9567, 9569, 9571, 9572, 9574, 9575, 9578
																						46			*150201, 150202, 1513, 1521, 1544, 1589, 9512, 9521, 9539, 9570
			28																			46			*150301, 150303, 151801, 151803, 1523, 1539, 1564, 1565, 1572, 1574, 157801, 1598, 9503, 9508, 9515, 9519, 9527, 9532, 9534, 9553, 9556, 9558, 9573
25			28										38									46			*150302
				29										39								46			*1504
			28																			46			*1505, 1551, 9523, 9536, 9551, 9576
																						46			*1506
			28											39								46			*1507, 1568, 9526
			28											39								46			*1508, 151101, 151102, 151104, 1515, 9548
			28																			46			*1509
			28																			46			*1510, 1537, 1590, 1599
													39									46			*151103
			w										39									46			*1512, 1519
			28					33					39									46			*1514, 1546
				29																		46			*1516, 1567, 1595, 4905
			28																			46			*15170101-151702, 9568, 9577
																						46			*151802
																					45			*1520, 4802, 5817N	
																						46			*152501, 152502, 1536, 1580
													39									46			*1526N, 1532, 9510, 9529
													39									46			*152701, 152702, 9509
													39									46			*152703
			28		31																	46			*1529
			28											39								46			*1530
			28																			46			*1531
25			28										38									46			*1533, 157802, 9516, 9541
			28										39									46			*153802
																						46			*1540, 1547, 1549, 9538
												37										46			*1542, 5531
			28										39									46			*1545
			28																			46			*1548
													39									46			*1550
																						46			*1552, 9514, 9524
			28										39	40								46			*1553
			28																			46			*1555
			28										39									46			*1558
			28																			46			*1561
																						46			*1562
			28										39									46			*1563
																						46			*1569, 1593
			28				32						39									46			*1570, 9501, 460101, 4604, 4610, 4614-4616, 4620, 4622, 5603
			28									37	39									46			*1573
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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*1576				4									13						19			w		
*1577		2											13	14										
*1583					5	6																		
*1584				4			7																	
*1585		2		4									13											
*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																				
*180101-1802, 1805, 1806, 1808, 1811, 1813, 1817N, 1818, 1823N-1825, 1828, 1831, 1832, 1834, 1838-1840, 1842-1845	1		3	4														18			21			
*1803	1		3	4														18			21			
*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			
*2701, 2731, 2749															15									
*2702, 2703, 270502-270512, 2709, 2713, 2716, 2717, 2729, 2735, 2737, 2739, 2745, 2746, 2748, 2750, 2751, 2753, 2755-2759N															15									24
*270401-270403, 2706, 2721													13		15									24
*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											
*2718, 2740													13		15									
*2719, 2730		2												14	15									24
*2720, 2724					5								13						20					
*2723							7								15									
*2725													13											
*2727					5	6									15				20					24
*2728, 2734, 2738, 2747																								24
*2732									9						15									24
*2733					5														20					
*2736																								
*2741				4											15									24
*2752, 4705															15									24
*370101-370105, 370107, 3703N, 3715-3718		2										12						18			21			24

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			28											39							46			*1575, 9505, 9511N, 9545
			28				32							39							46			*1576
														39							46			*1577
																					46			*1583
																					46			*1584
														39							46			*1585
																					46			*1588
			28					33													46			*1591
			28											39							46			*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
														39							46			*9554
				29																	46			*9555
																					46			*180101-1802, 1805, 1806, 1808, 1811, 1813, 1817N, 1818, 1823N-1825, 1828, 1831, 1832, 1834, 1838-1840, 1842-1845
							w														46			*1803
																					46			*1804
26						31															46	48		*180701, 180702
																			44		46			*1809
				30																	46			*1810, 1835
																					46			*1812
																					46			*1814
																					46			*1815, 1830
														39							46			*1819
																					46			*1820
25													38								46			*1821
																					46			*1822
																					46			*1826
																					46			*1827
26						31															46	48		*1829
																	41				46			*1833
			28																		46			*1836
				30																	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
25				30									38								46			*270401-270403, 2706, 2721
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
25	26	27		30	31								38								46	48		*2723
25				30									38	39							46			*2725
25				30									38								46			*2727
25				30									38								46			*2728, 2734, 2738, 2747
25				30									38								46			*2732
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
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
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*3702												12			15			18			21			24
*3704		2										12						18			21	22		24
*3705		2										12						18			21			
*3707												12	13					18			21			24
*3708	1	2																18			21			24
*3709			3									12						18			21			24
*3710		2										12						18			21			
*3711, 3714		2										12						18			21			
*3712					5							12						18			21			24
*3713		2										12	13					18			21			24
*3719		2										12		14				18			21			24
*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					5			8																
*380102								8																
*3806, 3807	1				5			8																
*3810, 3918, 3935					5			8					13											
*3816					5		7	8																
*3819, 3903, 3924, 3937					5			8	9															
*3820, 3942		2			5			8						14										
*3904					5			8									17		19					
*390601, 390602, 3933, 3934					5			8																
*3907, 3943			3	4														18						
*3914					5	6			9															
*3915, 3949			3					8																
*3917, 4415, 4418																								
*391901	1				5			8																
*391902	1				5			8																
*3925N, 4420, 4447																								
*3929			3			6			9															
*3932					5			8																
*3936					5			8					13											
*3946					5			8																
*3947					5			8							15					20				
*3950					5			8							15					20				
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*400204, 4431					5																20			
*4003, 4020, 4052				4																				
*4004					5									14						20			23	
*4005					5								13											
*4008					5		7									16				20				
*4009, 4018, 4031, 4033, 4042, 4044, 4089																								
*4010, 4012, 4021, 4047, 4076, 4083, 4094, 4096, 480101, 480102, 480301-4804, 4809-4811, 4813, 4816, 4818-4820					5																20			
*4013					5																20			24
*401401, 407201					5																20			
*401402, 4082					5																20			
*4015, 4016, 4023					5								13								20			
*4019					5																20			?
*4024																							23	
*4025					5		7									16					20			
*4026					5	6							13											
*4028		2			5	6							13	14								22		
*4030, 4034, 4064					5									14							20			

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25													38								46			*3702
																					46			*3704
25																					46			*3705
25													38								46			*3707
																					46			*3708
25													38								46			*3709
																			44		46			*3710
																					46			*3711, 3714
																					46			*3712
																					46			*3713
																					46			*3719
																					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
																					46			*380102
26						31															46			*3806, 3807
																					46			*3810, 3918, 3935
		27																			46			*3816
																					46			*3819, 3903, 3924, 3937
														36							46			*3820, 3942
																					46			*3904
				29																	46			*390601, 390602, 3933, 3934
																					46			*3907, 3943
																					46			*3914
																					46			*3915, 3949
																37					46			*3917, 4415, 4418
																	41				46			*391901
																	41				46			*391902
																					46			*3925N, 4420, 4447
																					46			*3929
																					46			*3932
																					46			*3936
																					46			*3946
																					46			*3947
																					46			*3950
																					46			*400101-400203, 400205-400207, 40060101-4007, 4011, 401403, 4022N, 4027, 4029, 4037, 4040, 4045, 4049, 4050, 4053-4058, 4061, 4062, 4065- 4067, 4069, 407202, 4074, 4075, 4078- 4081, 4084, 4085, 4088, 4090, 4091, 4097
25																					46			*400204, 4431
25																					46			*4003, 4020, 4052
25																					46			*4004
25																					46			*4005
25	26	27																			46		48	*4008
25																					46			*4009, 4018, 4031, 4033, 4042, 4044, 4089
25																					46			*4010, 4012, 4021, 4047, 4076, 4083, 4094, 4096, 480101, 480102, 480301- 4804, 4809-4811, 4813, 4816, 4818- 4820
25	26																				46		48	*4013
																					46			*401401, 407201
																					46			*401402, 4082
25																					46			*4015, 4016, 4023
25																					46			*4019
25																					46			*4024
25																					46			*4025
																					46			*4026
																					46			*4028
25																					46			*4030, 4034, 4064
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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*4036, 4048					5			8													20			
*4038				4	5																20			
*4039, 4108					5																			
*4043, 4073					5														19	20				
*4046, 4093					5																20			
*4051					5								13											
*4059, 4060				4																				23
*4063, 4092					5																			
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*4210					5	6			9															
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*440206, 4436, 4487				2																				
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*4406, 5142	1	2													14					20				24
*4409, 4446, 4475		2													14									
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*4412		2					7								14		16							
*4414		2			5										14									
*4416, 4421, 446401, 446402		2													14	15								
*4417, 4443		2	3	4											14									
*4425, 4450		2													14									24
*4440, 4444		2													14									
*4441, 4465, 9562																								
*4445, 4451		2	3												14									
*4453															14									
*4454									9															
*4462, 4477		2			5	6									14									
*4466		2													14									
*4476		2									11		13	14										
*4479		2											13	14										
*4482		2			5	6									14									
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*4506																			19					
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*4510															15									
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*4603				4									13						18	19				
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*4607N				4									13							19				
*4608				4									13							19				
*4609				4																19				

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25													38	40							46			*4038
25													38	40							46			*4039, 4108
25													38	40							46			*4043, 4073
25					?								38	40							46			*4046, 4093
25													38	40							46			*4051
25													38	40							46			*4059, 4060
25			28										38	40							46			*4063, 4092
25	26	27				31							38	40							46		?	*4068
25													38	40							46			*4070
			28									37		40							46			*4071
					30									40							46			*4077
25				29									38	40							46			*4086
														40							46			*4087
					30									40							46			*4095
														40							46			*4101-410302, 4106, 4107, 4109, 4111
														40							46			*4104
														40							46			*4105, 4112, 4211
														40							46			*4110, 4503
							32														46			*420101-4202, 4204-420502, 4207, 4208, 4212
							32														46	47		*4206
							32														46			*4209
							32														46			*4210
							32														46			*4213
																					46			*44020101-440205, 440207-440308, 4405, 4407, 4408, 4411, 4413, 4419N, 4422-4424, 4426, 4427, 4429, 4430, 4432-4435, 4437-4439, 4442, 4448, 4449, 4452N, 4455, 4457-4461N, 4463, 4467-4474, 4478, 4480, 4481, 4485, 4486, 4488
																					46			*440206, 4436, 4487
																					46			*4404, 442801, 442802, 4456N
																					46	48		*4406, 5142
														40							46			*4409, 4446, 4475
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		27																			46			*4412
								33													46			*4414
					30																46			*4416, 4421, 446401, 446402
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			28																		46			*4441, 4465, 9562
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																					46			*4453
			28																		46			*4454
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			28				32							39							46			*4609
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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*4617				4									13						19					
*4621				4														18	19					
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*4702								7							15									
*4703								7							15									
*4704															15									
*4805, 4815					5								13								20			
*4806					5																20			
*4807					5			8													20			
*4812					5	6			9						15						20			
*4814				4	5				9						15						20			
*4817																							23	
*490101-4902, 4906													13											
*4903												12	13					18		20				
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*4907													13		15									
*500101-5002, 5004-5008													13											
*5009													13											
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*510109	1				5	6							13											24
*510111					5	6							13							20				24
*510203, 5118	1				6								13							20				24
*5104, 5146	1	2			5	6							13	14						20		22		24
*5105, 510902	1				5	6																		24
*5106, 5159	1				5	6							13							20				24
*5107	1				5	6							13					18		20				24
*5108, 510901, 5119, 5140, 5144N, 5153, 5173	1				5	6														20				24
*5110, 5181	1				5															20				24
*511301, 511302	1				5			8					13							20				24
*5114, 512401	1				5								13							20				24
*5115	1				5			8															23	24
*5116, 5134, 5182	1				5	6							13		15					20				24
*5117	1												13							20				24
*5120	1				5	6													w	20				24
*5122	1				5	6							13							20				24
*5123	1				5	6							13							20				24
*512402	1				5								13							20				24
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*5145	1		3	4									13							20				24
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*520601, 520602					5	6						12	13							20				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	*510203, 5118
																					45		48	*5104, 5146
																					45		48	*5105, 510902
			28																		45		48	*5106, 5159
																					45			*5107
																					45		48	*5108, 510901, 5119, 5140, 5144N, 5153, 5173
25													38								45		48	*5110, 5181
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																					45			*5122
25								33						38							45		48	*5123
																					45		48	*512402
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				29																	45		48	*5137
			28																		45		48	*5145
																					45		48	*5150
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																					45	46	48	*5156
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			28									37									45		48	*5162
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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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*5302	1	2	3	4																		22	23	24
*5304	1	2	3					8															23	24
*5306	1	2	3	4									13							20		22		24
*5307	1																							24
*5308	1	2	3	4									13											24
*5309	1	2	3	4														18					23	
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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
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*5411					5														19				23	
*5412, 5607					5			8											w				23	
*5414, 5523			3	4														18	19				23	
*5415																			19				23	
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*5509, 5524					5			8				13		15					19	20				
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*5535					5			8											19			w	23	
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*5604					5			8											19					
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*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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																					45				*5210
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																					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
																					45		48		*5319
													38								45				*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
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																					46				*5409, 5618
25													38								46				*5411
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				29																	46				*5414, 5523
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																					46				*5416
													37								46				*550101, 550102, 550104-550106, 5503, 5505, 5511, 5515, 5525, 5529, 5533, 5536, 5538, 5625
													37								46				*550103
25													38								46				*5504
25			28										38								46				*5508
				30								37									46				*5509, 5524
				29																	46				*5513, 5622
																					46				*5514
													37								46				*5517, 5528
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												37									46				*5522
																					46				*5527
				29																	46				*5532
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			28									37									46				*5602
			28									37									46				*5604
																					45				*560501, 560502
																					46				*5606
																					46				*5609
																					46				*5611
																					46				*5612
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																					46				*5620
																					45				*5621
																					46				*570101-570104, 5706, 5708, 5710, 5715, 5716, 5718, 5720, 5723, 5724
																					46				*570105
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																					46				*570301, 570302, 5717
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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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*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
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*5726		2		4										14				18						24
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*5806			3	4									13											24
*5807			3	4																				23 24
*5809		2	3	4																	22	23	24	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.

Lot No.: **58G**

Lot-specific Information

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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			*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																				*7301
				29			32														45		48	*7801
							32														45		48	*780201, 780202
																					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
																					?	?		*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
																								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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Lot-specific Information

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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																				
				Prod. No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					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		+	+	+	+	-	-	-	-	-	-	-	-	-	+	-	-

				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: 101.522-24u/03u – without *Taq* pol.

Lot number: 58G

Expiry date: 2011-December -01

Number of tests: 24 tests – Product No. 101.522-24u

3 tests – Product No. 101.522-03u

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: 101.522-24u/03u
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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