

101.418-12/04 – including *Taq* pol., IFU-01 Rev. No. 03
101.418-12u/04– without *Taq* pol., IFU-02 Rev. No. 03

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“Instructions for Use” (IFU)

Lot No.: **36N**

Lot-specific information

Olerup SSP[®] HLA-A*68

Product number:	101.418-12/04 – including <i>Taq</i> pol. 101.418-12u/04u – without <i>Taq</i> pol.
Lot number:	36N
Expiry date:	2014-September-01
Number of tests:	12 tests – Product No. 101.418-12/12u 4 tests – Product No. 101.418-04/04u
Number of wells per test:	42
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. 36N.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP[®]* HLA-A*68 LOT (70K)

The HLA-A*68 kit is updated for new alleles to enable separation of:

- Confirmed¹ alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

Ten wells have been added to the HLA-A*68 kit, wells **33 to 42**.

The Lot-specific information for HLA-A*68 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

The HLA-A*68 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP[®]* HLA-A*68 lot was made (Lot No. 70K).

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

Well	5'-primer	3'-primer	rationale
16	Moved	Moved	Primer pair moved to well 33, for decreased tendencies of primer oligomer formation.
31	-	Modified	Improved specificity of primer pair.
32	Moved	Moved	Primer pair moved to well 41, for decreased tendencies of primer oligomer formation.
33	New	New	Primer pair from well 16.
34	New	New	New primer pair for the A*68:55 allele.
35	New	New	New primer pair for the A*68:59N allele.
36	New	New	Improved resolution of the A*68:02 and the A*68:27 alleles.
37	New	New	New primer pair for the A*68:65 allele.
38	New	New	New primer pair for the A*68:67 allele.
39	New	New	New primer pair for the A*68:68 allele.
40	New	New	New primer pair for the A*68:80 allele.
41	New	New	Primer pair from well 32.
41	New	New	New primer pair for the A*68:60 allele.

Change in revision R01 compared to R00:

1. Primer mixes 29 and 30 do not amplify the A*68:37 allele. This has been corrected in the specificity and amplification tables. Thus, this lot of the HLA-A*68 subtyping kit cannot distinguish the A*68:01:02, 68:01:06 and A*68:37 alleles.

Change in revision R02 compared to R01:

1. Primer mix 11 may faintly amplify the A*02:06:05, 02:06:09, 02:122, 11:70 and 26:07:01-26:07:02 alleles. A foot note has been added in the Specificity Table.

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PRODUCT DESCRIPTION

HLA-A*68 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the A*68:01 to A*68:85 alleles. The HLA-A*69:01 allele is also identified.

PLATE LAYOUT

Each test consists of 42 PCR reactions in a 48 well cut PCR plate. Wells 43 to 48 are empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	empty	empty	empty	empty	empty	empty

The 48 well cut PCR plate is marked with 'HLA-A*68' in silver gray ink.

Well No. 1 is marked with the Lot No '36N'.

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 heat-sealed with a PCR-compatible foil.

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

INTERPRETATION

The interpretation of HLA-A*68 SSP subtypings will be influenced by most A*01, several A*02, the A*03, the A*11, three A*23, twelve A*24, the A*25, the A*26, the A*29, three A*30, four A*31, four A*32, three A*33, the A*34, the A*36, the A*43:01, the A*66, the A*74:13 and the A*80 as well as by the A*69:01 allele when present on the other haplotype. In addition, the B*27:25, B*27:45 and C*02:07 alleles will be amplified by primer mix 17, the B*27:45 will be amplified by primer mix 21 and the C*03:82 allele will be amplified by primer mix 1.

UNIQUELY IDENTIFIED ALLELES

All the HLA-A*68 alleles, i.e. **A*68:01 to A*68:85 as well as the A*69:01 allele**, recognized by the HLA Nomenclature Committee in January 2012¹ will be amplified by the primers in the HLA-A*68 subtyping kit².

The HLA-A*68 kit enables separation of the confirmed HLA-A*68 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-A*68 alleles is listed below.

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The HLA-A*68 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The A*68:29 and A*68:52 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 25.

The HLA-A*68 subtyping kit cannot distinguish the following silent mutations: the A*68:01:01:01-68:01:01:02, 68:01:03-68:01:05 and 68:01:07-68:01:10, the A*68:01:02 and 68:01:06, the A*68:02:01:01-68:02:04 and the A*68:03:01-68:03:02 alleles.

¹HLA-A alleles listed on the IMGT/HLA web page 2012-January-12, release 3.7.0, www.ebi.ac.uk/imgt/hla.

²The A*68:27 and the A*66:16 alleles give rise to identical amplification patterns with the HLA-A*68 subtyping kit. These alleles can be distinguished by e.g. the HLA-A low resolution kit and/or the HLA-A*66 subtyping kit.

The A*68:66 and 68:75 and the A*03:50 and 03:66 alleles give rise to identical amplification patterns with the HLA-A*68 subtyping kit. These alleles can be distinguished by e.g. the HLA-A low resolution kit and/or the HLA-A*03 subtyping kit.

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ALLELE CONFIRMATION STATUS

Allele	Status	Allele	Status	Allele	Status	Allele	Status
A*68:01:01:01	Confirmed	A*68:13	Confirmed	A*68:42	Unconfirmed	A*68:72	Unconfirmed
A*68:01:01:02	Unconfirmed	A*68:14	Unconfirmed	A*68:43	Unconfirmed	A*68:73	Unconfirmed
A*68:01:02	Confirmed	A*68:15	Confirmed	A*68:44	Confirmed	A*68:74	Unconfirmed
A*68:01:03	Unconfirmed	A*68:16	Confirmed	A*68:45	Unconfirmed	A*68:75	Unconfirmed
A*68:01:04	Unconfirmed	A*68:17	Confirmed	A*68:46	Confirmed	A*68:76	Unconfirmed
A*68:01:05	Unconfirmed	A*68:18N	Unconfirmed	A*68:47	Unconfirmed	A*68:77	Unconfirmed
A*68:01:06	Confirmed	A*68:19	Confirmed	A*68:48	Unconfirmed	A*68:78	Unconfirmed
A*68:01:07	Unconfirmed	A*68:20	Unconfirmed	A*68:49N	Unconfirmed	A*68:79	Unconfirmed
A*68:01:08	Confirmed	A*68:21:01	Unconfirmed	A*68:50	Unconfirmed	A*68:80	Confirmed
A*68:01:09	Unconfirmed	A*68:21:02	Unconfirmed	A*68:51	Unconfirmed	A*68:81	Unconfirmed
A*68:01:10	Unconfirmed	A*68:22	Unconfirmed	A*68:52	Unconfirmed	A*68:82	Unconfirmed
A*68:02:01:01	Confirmed	A*68:23	Unconfirmed	A*68:53	Confirmed	A*68:83	Unconfirmed
A*68:02:01:02	Unconfirmed	A*68:24	Confirmed	A*68:54	Confirmed	A*68:84	Unconfirmed
A*68:02:01:03	Unconfirmed	A*68:25	Confirmed	A*68:55	Confirmed	A*68:85	Unconfirmed
A*68:02:02	Confirmed	A*68:26	Unconfirmed	A*68:56	Unconfirmed		
A*68:02:03	Confirmed	A*68:27	Confirmed	A*68:57	Unconfirmed		
A*68:02:04	Confirmed	A*68:28	Unconfirmed	A*68:58	Unconfirmed		
A*68:03:01	Confirmed	A*68:29	Unconfirmed	A*68:59N	Confirmed		
A*68:03:02	Unconfirmed	A*68:30	Unconfirmed	A*68:60	Confirmed		
A*68:03:03	Confirmed	A*68:31	Confirmed	A*68:61	Unconfirmed		
A*68:04	Unconfirmed	A*68:32	Unconfirmed	A*68:62	Unconfirmed		
A*68:05	Confirmed	A*68:33	Confirmed	A*68:63	Unconfirmed		
A*68:06	Confirmed	A*68:34	Unconfirmed	A*68:64	Unconfirmed		
A*68:07	Confirmed	A*68:35	Confirmed	A*68:65	Confirmed		
A*68:08:01	Unconfirmed	A*68:36	Confirmed	A*68:66	Unconfirmed		
A*68:08:02	Confirmed	A*68:37	Confirmed	A*68:67	Confirmed		
A*68:09	Unconfirmed	A*68:38	Unconfirmed	A*68:68	Confirmed		
A*68:10	Confirmed	A*68:39	Unconfirmed	A*68:69	Unconfirmed		
A*68:11N	Confirmed	A*68:40	Confirmed	A*68:70	Unconfirmed		
A*68:12	Confirmed	A*68:41	Unconfirmed	A*68:71	Unconfirmed		

¹ Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-January-12, release 3.7.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 104 alleles generate 67 amplification patterns that can be combined in 2278 homozygous and heterozygous combinations. 1150 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products were not considered in these calculations.

```

--+-+--- -+-----+ +----- -+----- -- *68:15, *68:15 = *68:15, *68:31
-+----- -+----- -+----- -+----- -- *68:03:03, *68:03:03 = *68:03:03, *68:57
-+----- -+----- -+----- -+----- -- *68:36, *68:36 = *68:36, *68:57
-+----- -+----- -+----- -+----- -- *68:03:01, *68:03:01 = *68:03:01, *68:57
+----- -+----- -+----- -+----- -- *68:13, *68:13 = *68:13, *68:66
+----- -+----- -+----- -+----- -- *68:10, *68:10 = *68:10, *68:66
+-----+ -+----- -+----- -+----- -- *68:07, *68:07 = *68:07, *68:66
+-----+ -+----- -+----- -+----- -- *68:30, *68:30 = *68:30, *68:66
+-----+ -+----- -+----- -+----- -- *68:02:01:01, *68:60 = *68:60, *68:60
+-----+ -+----- -+----- -+----- -- *68:02:01:01, *68:80 = *68:80, *68:80

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++-----	-----+	-----	-----	-----	---	*68:02:01:01, *68:67 = *68:67, *68:67
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:53 = *68:53, *68:53
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:48 = *68:48, *68:48
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:54 = *68:54, *68:54
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:44 = *68:44, *68:44
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:34 = *68:34, *68:34
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:49N = *68:49N, *68:49N
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:28 = *68:28, *68:28
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:31 = *68:02:01:01, *68:40 = *68:31, *68:40 = *68:40, *68:40
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:81 = *68:81, *68:81
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:51 = *68:51, *68:51
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:18N = *68:18N, *68:18N
++-----	-----	-----	-----	-----	---	*68:01:02, *68:01:02 = *68:01:02, *68:57 = *68:01:02, *68:66 = *68:57, *68:66
-++-----	-----	-----	-----	-----	---	*68:03:03, *68:04 = *68:04, *68:04 = *68:04, *68:57
-++-----	-----	-----	-----	-----	---	*68:03:01, *68:05 = *68:05, *68:05 = *68:05, *68:57
++-----	-----	-----	-----	-----	---	*68:10, *68:14 = *68:14, *68:14 = *68:14, *68:66
++-----	-----	-----	-----	-----	---	*68:31, *68:60 = *68:40, *68:60
++-----	-----	-----	-----	-----	---	*68:31, *68:80 = *68:40, *68:80
++-----	-----	-----	-----	-----	---	*68:31, *68:67 = *68:40, *68:67
++-----	-----	-----	-----	-----	---	*68:27, *68:31 = *68:27, *68:40
++-----	-----	-----	-----	-----	---	*68:31, *68:53 = *68:40, *68:53
++-----	-----	-----	-----	-----	---	*68:31, *68:48 = *68:40, *68:48
++-----	-----	-----	-----	-----	---	*68:31, *68:54 = *68:40, *68:54
++-----	-----	-----	-----	-----	---	*68:31, *68:44 = *68:40, *68:44
++-----	-----	-----	-----	-----	---	*68:31, *68:34 = *68:34, *68:40
++-----	-----	-----	-----	-----	---	*68:31, *68:49N = *68:40, *68:49N
++-----	-----	-----	-----	-----	---	*68:28, *68:31 = *68:28, *68:40
++-----	-----	-----	-----	-----	---	*68:31, *68:81 = *68:40, *68:81
++-----	-----	-----	-----	-----	---	*68:31, *68:51 = *68:40, *68:51
++-----	-----	-----	-----	-----	---	*68:18N, *68:31 = *68:18N, *68:40
++-----	-----	-----	-----	-----	---	*68:06, *68:31 = *68:06, *68:40
++-----	-----	-----	-----	-----	---	*68:02:01:01, *68:15 = *68:15, *68:40
++-----	-----	-----	-----	-----	---	*68:01:02, *68:45 = *68:45, *68:45 = *68:45, *68:57 = *68:45, *68:66
++-----	-----	-----	-----	-----	---	*68:01:01:01, *68:01:01:01 = *68:01:01:01, *68:01:02 = *68:01:01:01, *68:03:03 = *68:01:01:01, *68:57 = *68:01:01:01, *68:66 = *68:01:02, *68:03:03 = *68:03:03, *68:66
++-----	-----	-----	-----	-----	---	*68:01:02, *68:16 = *68:16, *68:16 = *68:16, *68:57 = *68:16, *68:66
++-----	-----	-----	-----	-----	---	*68:01:02, *68:36 = *68:36, *68:66
++-----	-----	-----	-----	-----	---	*68:01:02, *68:33 = *68:33, *68:33 = *68:33, *68:57 = *68:33, *68:66
++-----	-----	-----	-----	-----	---	*68:01:02, *68:29 = *68:29, *68:29 = *68:29, *68:57 = *68:29, *68:66
++-----	-----	-----	-----	-----	---	*68:01:02, *68:24 = *68:24, *68:24 = *68:24, *68:57 = *68:24, *68:66
++-----	-----	-----	-----	-----	---	*68:01:02, *68:23 = *68:23, *68:23 = *68:23, *68:57 = *68:23, *68:66
++-----	-----	-----	-----	-----	---	*68:01:02, *68:19 = *68:19, *68:19 = *68:19, *68:57 = *68:19, *68:66
++-----	-----	-----	-----	-----	---	*68:01:02, *68:13 = *68:01:02, *68:41 = *68:13, *68:41 = *68:13, *68:57 = *68:41, *68:41 = *68:41, *68:57 = *68:41, *68:66
++-----	-----	-----	-----	-----	---	*68:01:02, *68:12 = *68:12, *68:12 = *68:12, *68:57 = *68:12, *68:66
++-----	-----	-----	-----	-----	---	*68:01:02, *68:11N = *68:11N, *68:11N =



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++-----	---+-----	-----++-	-----	-----	--	*68:11N, *68:57 = *68:11N, *68:66
++-----	---+-----	-----++-	-----	-----	--	*68:01:02, *68:10 = *68:01:02, *68:17 = *68:10, *68:17 = *68:10, *68:57 = *68:17, *68:17 = *68:17, *68:57 = *68:17, *68:66
++-----	---+-----	-----++-	-----	-----	--	*68:01:02, *68:09 = *68:09, *68:57 = *68:09, *68:66
++-----	---+-----	-----++-	-----	-----	--	*68:08:01, *68:08:01 = *68:08:01, *68:08:02
++-----	---+-----	-----++-	-----	-----	--	*68:01:02, *68:08:02 = *68:01:02, *68:47 = *68:08:02, *68:47 = *68:08:02, *68:57 = *68:08:02, *68:66 = *68:47, *68:47 = *68:47, *68:57 = *68:47, *68:66
++-----+	-----	-----++-	-----	-----	--	*68:01:02, *68:07 = *68:01:02, *68:46 = *68:07, *68:46 = *68:07, *68:57 = *68:46, *68:46 = *68:46, *68:57 = *68:46, *68:66
++-----+	-----	-----++-	-----	-----	--	*68:01:02, *68:06 = *68:01:02, *68:32 = *68:06, *68:32 = *68:06, *68:57 = *68:32, *68:32 = *68:32, *68:57 = *68:32, *68:66
++-+-----	-----	-----++-	-----	-----	--	*68:01:02, *68:03:01 = *68:01:02, *68:30 = *68:03:01, *68:30 = *68:03:01, *68:66 = *68:30, *68:57
+++-----	-----	-----++-	-----	-----	--	*68:01:02, *68:39 = *68:39, *68:39 = *68:39, *68:57 = *68:39, *68:66
-+-+-----	-----	---+-----	-----	-----	--	*68:03:01, *68:20 = *68:05, *68:20 = *68:20, *68:20 = *68:20, *68:57
++-+-----	-----	---+-----	-----	-----	--	*68:31, *68:66 = *68:40, *68:66
++-----	-----	-----++-	-----	-----	+-	*68:01:01:01, *68:45 = *68:03:03, *68:45
++-----	-----	-----++-	-----	-----	+-	*68:01:01:01, *68:68 = *68:01:02, *68:68 = *68:03:03, *68:68 = *68:57, *68:68 = *68:66, *68:68 = *68:68, *68:68
++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:59N = *68:01:02, *68:59N = *68:03:03, *68:59N = *68:57, *68:59N = *68:59N, *68:59N = *68:59N, *68:66
++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:55 = *68:01:02, *68:55 = *68:03:03, *68:55 = *68:55, *68:55 = *68:55, *68:57 = *68:55, *68:66
++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:16 = *68:03:03, *68:16
++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:36 = *68:01:01:01, *68:42 = *68:01:02, *68:42 = *68:03:03, *68:42 = *68:36, *68:42 = *68:42, *68:42 = *68:42, *68:57 = *68:42, *68:66
++-----	-----	-----++-	-----	-----	--	*68:01:02, *68:37 = *68:36, *68:37 = *68:37, *68:37 = *68:37, *68:57 = *68:37, *68:66
++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:35 = *68:01:02, *68:35 = *68:03:03, *68:35 = *68:35, *68:35 = *68:35, *68:35 = *68:35, *68:66
++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:43 = *68:01:02, *68:43 = *68:03:03, *68:43 = *68:43, *68:43 = *68:43, *68:57 = *68:43, *68:66
++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:33 = *68:03:03, *68:33
++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:29 = *68:03:03, *68:29
++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:24 = *68:03:03, *68:24
++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:23 = *68:03:03, *68:23
++-----	-----	---+-----	-----	-----	--	*68:01:01:01, *68:22 = *68:01:02, *68:22 = *68:03:03, *68:22 = *68:22, *68:22 = *68:22, *68:57 = *68:22, *68:66
++-----	-----	---+-----	-----	-----	--	*68:01:02, *68:65 = *68:57, *68:65 = *68:65, *68:66
++-----	-----	---+-----	-----	-----	--	*68:01:02, *68:21:01 = *68:21:01, *68:21:01 = *68:21:01, *68:57 = *68:21:01, *68:66



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++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:27 = *68:01:02, *68:27 = *68:03:03, *68:27 = *68:27, *68:57
++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:19 = *68:03:03, *68:19
++-----	-----+	+-----+	-----	-----	+-	*68:13, *68:45 = *68:41, *68:45
++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:13 = *68:01:01:01, *68:41 = *68:03:03, *68:13 = *68:03:03, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:13, *68:16 = *68:16, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:13, *68:36 = *68:36, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:13, *68:33 = *68:33, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:13, *68:29 = *68:29, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:13, *68:24 = *68:24, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:13, *68:23 = *68:23, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:13, *68:19 = *68:19, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:12 = *68:03:03, *68:12
++-----	-----+	+-----+	-----	-----	--	*68:12, *68:13 = *68:12, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:11N = *68:03:03, *68:11N
++-----	-----+	+-----+	-----	-----	--	*68:01:02, *68:38 = *68:11N, *68:38 = *68:38, *68:38 = *68:38, *68:57 = *68:38, *68:66
++-----	-----+	+-----+	-----	-----	--	*68:11N, *68:13 = *68:11N, *68:41
++-----	-----+	+-----+	-----	-----	+-	*68:10, *68:45 = *68:17, *68:45
++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:10 = *68:01:01:01, *68:17 = *68:03:03, *68:10 = *68:03:03, *68:17
++-----	-----+	+-----+	-----	-----	--	*68:10, *68:16 = *68:16, *68:17
++-----	-----+	+-----+	-----	-----	--	*68:10, *68:36 = *68:17, *68:36
++-----	-----+	+-----+	-----	-----	--	*68:10, *68:33 = *68:17, *68:33
++-----	-----+	+-----+	-----	-----	--	*68:10, *68:29 = *68:17, *68:29
++-----	-----+	+-----+	-----	-----	--	*68:10, *68:24 = *68:17, *68:24
++-----	-----+	+-----+	-----	-----	--	*68:10, *68:23 = *68:17, *68:23
++-----	-----+	+-----+	-----	-----	--	*68:01:02, *68:14 = *68:10, *68:19 = *68:14, *68:17 = *68:14, *68:19 = *68:14, *68:57 = *68:17, *68:19
++-----	-----+	+-----+	-----	-----	--	*68:10, *68:41 = *68:13, *68:17 = *68:17, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:10, *68:12 = *68:12, *68:17
++-----	-----+	+-----+	-----	-----	--	*68:10, *68:11N = *68:11N, *68:17
++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:09 = *68:03:03, *68:09
++-----	-----+	+-----+	-----	-----	--	*68:09, *68:13 = *68:09, *68:41
++-----	-----+	+-----+	-----	-----	--	*68:09, *68:10 = *68:09, *68:17
++-----	-----+	+-----+	-----	-----	--	*68:08:01, *68:63 = *68:08:02, *68:63 = *68:63, *68:63
++-----	-----+	+-----+	-----	-----	+-	*68:08:02, *68:45 = *68:45, *68:47
++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:08:01 = *68:01:01:01, *68:08:02 = *68:01:01:01, *68:47 = *68:01:02, *68:08:01 = *68:03:03, *68:08:01 = *68:03:03, *68:08:02 = *68:03:03, *68:47 = *68:08:01, *68:47 = *68:08:01, *68:57 = *68:08:01, *68:66
++-----	-----+	+-----+	-----	-----	--	*68:08:02, *68:16 = *68:16, *68:47
++-----	-----+	+-----+	-----	-----	--	*68:08:02, *68:36 = *68:36, *68:47
++-----	-----+	+-----+	-----	-----	--	*68:08:02, *68:33 = *68:33, *68:47
++-----	-----+	+-----+	-----	-----	--	*68:08:02, *68:29 = *68:29, *68:47
++-----	-----+	+-----+	-----	-----	--	*68:08:02, *68:24 = *68:24, *68:47
++-----	-----+	+-----+	-----	-----	--	*68:08:02, *68:23 = *68:23, *68:47
++-----	-----+	+-----+	-----	-----	--	*68:08:01, *68:27 = *68:08:02, *68:27
++-----	-----+	+-----+	-----	-----	--	*68:08:02, *68:19 = *68:19, *68:47
++-----	-----+	+-----+	-----	-----	--	*68:08:02, *68:13 = *68:08:02, *68:41 = *68:13, *68:47 = *68:41, *68:47
++-----	-----+	+-----+	-----	-----	--	*68:08:02, *68:12 = *68:12, *68:47
++-----	-----+	+-----+	-----	-----	--	*68:08:02, *68:11N = *68:11N, *68:47



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++-----	+-----	-----++	-----	-----	--	*68:08:02, *68:10 = *68:08:02, *68:17 = *68:10, *68:47 = *68:17, *68:47
++-----+	-----	-----++	-----	-----	+-	*68:07, *68:45 = *68:45, *68:46
++-----+	-----	-----++	-----	-----	--	*68:01:01:01, *68:07 = *68:01:01:01, *68:46 = *68:03:03, *68:07 = *68:03:03, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:16 = *68:16, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:36 = *68:36, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:33 = *68:33, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:29 = *68:29, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:24 = *68:24, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:23 = *68:23, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:19 = *68:19, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:41 = *68:13, *68:46 = *68:41, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:12 = *68:12, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:11N = *68:11N, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:17 = *68:10, *68:46 = *68:17, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:09 = *68:09, *68:46
++-----+	-----	-----++	-----	-----	--	*68:07, *68:08:02 = *68:07, *68:47 = *68:08:02, *68:46 = *68:46, *68:47
++-----+	-----	-----++	-----	-----	+-	*68:06, *68:45 = *68:32, *68:45
++-----+	-----	-----++	-----	-----	--	*68:01:01:01, *68:06 = *68:01:01:01, *68:32 = *68:03:03, *68:06 = *68:03:03, *68:32
++-----+	-----	-----++	-----	-----	--	*68:06, *68:16 = *68:16, *68:32
++-----+	-----	-----++	-----	-----	--	*68:06, *68:36 = *68:32, *68:36
++-----+	-----	-----++	-----	-----	--	*68:06, *68:33 = *68:32, *68:33
++-----+	-----	-----++	-----	-----	--	*68:06, *68:29 = *68:29, *68:32
++-----+	-----	-----++	-----	-----	--	*68:06, *68:24 = *68:24, *68:32
++-----+	-----	-----++	-----	-----	--	*68:06, *68:23 = *68:23, *68:32
++-----+	-----	-----++	-----	-----	--	*68:06, *68:19 = *68:19, *68:32
++-----+	-----	-----++	-----	-----	--	*68:06, *68:41 = *68:13, *68:32 = *68:32, *68:41
++-----+	-----	-----++	-----	-----	--	*68:06, *68:12 = *68:12, *68:32
++-----+	-----	-----++	-----	-----	--	*68:06, *68:11N = *68:11N, *68:32
++-----+	-----	-----++	-----	-----	--	*68:06, *68:17 = *68:10, *68:32 = *68:17, *68:32
++-----+	-----	-----++	-----	-----	--	*68:06, *68:47 = *68:08:02, *68:32 = *68:32, *68:47
++-----+	-----	-----++	-----	-----	--	*68:06, *68:46 = *68:07, *68:32 = *68:32, *68:46
++-----+	-----	-----++	-----	-----	--	*68:01:01:01, *68:04 = *68:01:01:01, *68:25 = *68:01:02, *68:04 = *68:01:02, *68:25 = *68:03:03, *68:25 = *68:04, *68:25 = *68:04, *68:66 = *68:25, *68:25 = *68:25, *68:57 = *68:25, *68:66
++-----+	-----	-----++	-----	-----	+-	*68:03:01, *68:45 = *68:30, *68:45
++-----+	-----	-----++	-----	-----	--	*68:01:01:01, *68:03:01 = *68:01:01:01, *68:30 = *68:03:03, *68:30
++-----+	-----	-----++	-----	-----	--	*68:03:01, *68:16 = *68:16, *68:30
++-----+	-----	-----++	-----	-----	--	*68:03:01, *68:33 = *68:30, *68:33
++-----+	-----	-----++	-----	-----	--	*68:03:01, *68:29 = *68:29, *68:30
++-----+	-----	-----++	-----	-----	--	*68:03:01, *68:24 = *68:24, *68:30
++-----+	-----	-----++	-----	-----	--	*68:03:01, *68:23 = *68:23, *68:30
++-----+	-----	-----++	-----	-----	--	*68:03:01, *68:19 = *68:19, *68:30
++-----+	-----	-----++	-----	-----	--	*68:03:01, *68:13 = *68:03:01, *68:41 = *68:30, *68:41
++-----+	-----	-----++	-----	-----	--	*68:03:01, *68:12 = *68:12, *68:30
++-----+	-----	-----++	-----	-----	--	*68:03:01, *68:11N = *68:11N, *68:30
++-----+	-----	-----++	-----	-----	--	*68:03:01, *68:10 = *68:03:01, *68:17 = *68:17, *68:30



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Lot No.: 36N

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+++-----	-+-----	-----++-	-----	-----	--	*68:03:01, *68:09 = *68:09, *68:30
+++-----	+-----	-----++-	-----	-----	--	*68:03:01, *68:08:02 = *68:03:01, *68:47
+++-----	-----	-----++-	-----	-----	--	= *68:08:02, *68:30 = *68:30, *68:47
+++-----	-----	-----++-	-----	-----	--	*68:03:01, *68:07 = *68:03:01, *68:46 =
+++-----	-----	-----++-	-----	-----	--	*68:30, *68:46
+++-----	-----	-----++-	-----	-----	--	*68:03:01, *68:06 = *68:03:01, *68:32 =
+++-----	-----	-----++-	-----	-----	--	*68:30, *68:32
+++-----	-----	-----++-	-----	-----	--	*68:01:02, *68:05 = *68:05, *68:30 =
+++-----	-----	-----++-	-----	-----	--	*68:05, *68:66
+++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:39 = *68:03:03, *68:39
+++-----	-----	-----++-	-----	-----	--	*68:01:02, *68:02:01:01 = *68:02:01:01,
+++-----	-----	-----++-	-----	-----	--	*68:39 = *68:02:01:01, *68:57
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:39 = *68:39, *68:41
+++-----	-----	-----++-	-----	-----	--	*68:10, *68:39 = *68:17, *68:39
+++-----	-----	-----++-	-----	-----	--	*68:08:02, *68:39 = *68:39, *68:47
+++-----	-----	-----++-	-----	-----	--	*68:02:01:01, *68:08:02 = *68:08:02,
+++-----	-----	-----++-	-----	-----	--	*68:18N
+++-----	-----	-----++-	-----	-----	--	*68:07, *68:39 = *68:39, *68:46
+++-----	-----	-----++-	-----	-----	--	*68:06, *68:39 = *68:32, *68:39
+++-----	-----	-----++-	-----	-----	--	*68:03:01, *68:39 = *68:30, *68:39
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:31 = *68:13, *68:40
+++-----	-----	-----++-	-----	-----	--	*68:10, *68:31 = *68:10, *68:40
+++-----	-----	-----++-	-----	-----	--	*68:02:01:01, *68:14 = *68:10, *68:81 =
+++-----	-----	-----++-	-----	-----	--	*68:14, *68:81
+++-----	-----	-----++-	-----	-----	--	*68:07, *68:31 = *68:07, *68:40
+++-----	-----	-----++-	-----	-----	--	*68:30, *68:31 = *68:30, *68:40
+++-----	-----	-----++-	-----	-----	--	*68:36, *68:68 = *68:42, *68:68
+++-----	-----	-----++-	-----	-----	--	*68:36, *68:59N = *68:42, *68:59N
+++-----	-----	-----++-	-----	-----	--	*68:36, *68:55 = *68:42, *68:55
+++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:37 = *68:03:03, *68:37
+++-----	-----	-----++-	-----	-----	--	= *68:37, *68:42
+++-----	-----	-----++-	-----	-----	--	*68:35, *68:36 = *68:35, *68:42
+++-----	-----	-----++-	-----	-----	--	*68:36, *68:43 = *68:42, *68:43
+++-----	-----	-----++-	-----	-----	--	*68:22, *68:36 = *68:22, *68:42
+++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:65 = *68:03:03, *68:65
+++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:21:01 = *68:03:03,
+++-----	-----	-----++-	-----	-----	--	*68:21:01
+++-----	-----	-----++-	-----	-----	--	*68:27, *68:36 = *68:27, *68:42
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:68 = *68:41, *68:68
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:59N = *68:41, *68:59N
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:55 = *68:41, *68:55
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:42 = *68:41, *68:42
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:37 = *68:37, *68:41
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:35 = *68:35, *68:41
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:43 = *68:41, *68:43
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:22 = *68:22, *68:41
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:65 = *68:41, *68:65
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:21:01 = *68:21:01, *68:41
+++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:50 = *68:01:02, *68:50
+++-----	-----	-----++-	-----	-----	--	= *68:03:03, *68:50 = *68:12, *68:50 =
+++-----	-----	-----++-	-----	-----	--	*68:50, *68:50 = *68:50, *68:57 = *68:50,
+++-----	-----	-----++-	-----	-----	--	*68:66
+++-----	-----	-----++-	-----	-----	--	*68:01:01:01, *68:38 = *68:03:03, *68:38
+++-----	-----	-----++-	-----	-----	--	= *68:11N, *68:35 = *68:35, *68:38
+++-----	-----	-----++-	-----	-----	--	*68:13, *68:38 = *68:38, *68:41
+++-----	-----	-----++-	-----	-----	--	*68:10, *68:68 = *68:17, *68:68
+++-----	-----	-----++-	-----	-----	--	*68:10, *68:59N = *68:17, *68:59N
+++-----	-----	-----++-	-----	-----	--	*68:10, *68:55 = *68:17, *68:55
+++-----	-----	-----++-	-----	-----	--	*68:10, *68:42 = *68:17, *68:42
+++-----	-----	-----++-	-----	-----	--	*68:10, *68:37 = *68:17, *68:37
+++-----	-----	-----++-	-----	-----	--	*68:10, *68:35 = *68:17, *68:35
+++-----	-----	-----++-	-----	-----	--	*68:10, *68:43 = *68:17, *68:43
+++-----	-----	-----++-	-----	-----	--	*68:10, *68:22 = *68:17, *68:22



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++-----	---+-----	-+-----++	-----	-----+---	--	*68:10, *68:65 = *68:17, *68:65
++-----	---+-----	-+-----++	-----+	-----	--	*68:10, *68:21:01 = *68:17, *68:21:01
++-----	---+-----	-+-----++	-----	-----	--	*68:01:01:01, *68:14 = *68:03:03, *68:14
++-----	---+-----	-+-----++	-----	-----	--	*68:10, *68:38 = *68:17, *68:38
++-----	+-----	-----++	-----	-----+	--	*68:08:01, *68:68 = *68:08:02, *68:68 = *68:47, *68:68
++-----	+-----	-----++	-----	-----	--	*68:08:01, *68:59N = *68:08:02, *68:59N = *68:47, *68:59N
++-----	+-----	-----++	-----	-----	--	*68:08:01, *68:55 = *68:08:02, *68:55 = *68:47, *68:55
++-----	+-----	-----++	-----	-----	--	*68:01:01:01, *68:63 = *68:01:02, *68:63 = *68:03:03, *68:63 = *68:08:01, *68:36 = *68:08:01, *68:42 = *68:08:02, *68:42 = *68:36, *68:63 = *68:42, *68:47 = *68:42, *68:63 = *68:47, *68:63 = *68:57, *68:63 = *68:63, *68:66
++-----	+-----	-----++	-----	-----	--	*68:08:02, *68:37 = *68:37, *68:47
++-----	+-----	-----++	-----	-----	--	*68:08:01, *68:35 = *68:08:02, *68:35 = *68:35, *68:47
++-----	+-----	-----++	-----	-----	--	*68:08:01, *68:43 = *68:08:02, *68:43 = *68:43, *68:47
++-----	+-----	-----++	-----	-----	--	*68:08:01, *68:22 = *68:08:02, *68:22 = *68:22, *68:47
++-----	+-----	-+-----++	-----	-----	--	*68:08:02, *68:65 = *68:47, *68:65
++-----	+-----	-+-----++	-----	-----	--	*68:08:02, *68:21:01 = *68:21:01, *68:47
++-----	+-----	-----++	-----	-----	--	*68:08:01, *68:13 = *68:08:01, *68:41
++-----	+-----	-----++	-----	-----	--	*68:08:02, *68:38 = *68:38, *68:47
++-----	+-----	-----++	-----	-----	--	*68:08:01, *68:10 = *68:08:01, *68:17
++-----	+-----	-----++	-----	-----	--	*68:08:02, *68:14 = *68:14, *68:47
++-----	+-----	-----++	-----	-----	--	*68:07, *68:68 = *68:46, *68:68
++-----	+-----	-----++	-----	-----	--	*68:07, *68:59N = *68:46, *68:59N
++-----	+-----	-----++	-----	-----	--	*68:07, *68:55 = *68:46, *68:55
++-----	+-----	-----++	-----	-----	--	*68:07, *68:42 = *68:42, *68:46
++-----	+-----	-----++	-----	-----	--	*68:07, *68:37 = *68:37, *68:46
++-----	+-----	-----++	-----	-----	--	*68:07, *68:35 = *68:35, *68:46
++-----	+-----	-----++	-----	-----	--	*68:07, *68:43 = *68:43, *68:46
++-----	+-----	-----++	-----	-----	--	*68:07, *68:22 = *68:22, *68:46
++-----	+-----	-----++	-----	-----	--	*68:07, *68:65 = *68:46, *68:65
++-----	+-----	-+-----++	-----	-----	--	*68:07, *68:21:01 = *68:21:01, *68:46
++-----	+-----	-----++	-----	-----	--	*68:07, *68:38 = *68:38, *68:46
++-----	+-----	-----++	-----	-----	--	*68:07, *68:08:01 = *68:08:01, *68:46
++-----	+-----	-----++	-----	-----	--	*68:06, *68:68 = *68:32, *68:68
++-----	+-----	-----++	-----	-----	--	*68:06, *68:59N = *68:32, *68:59N
++-----	+-----	-----++	-----	-----	--	*68:06, *68:55 = *68:32, *68:55
++-----	+-----	-----++	-----	-----	--	*68:06, *68:42 = *68:32, *68:42
++-----	+-----	-----++	-----	-----	--	*68:06, *68:37 = *68:32, *68:37
++-----	+-----	-----++	-----	-----	--	*68:06, *68:35 = *68:32, *68:35
++-----	+-----	-----++	-----	-----	--	*68:06, *68:43 = *68:32, *68:43
++-----	+-----	-----++	-----	-----	--	*68:06, *68:22 = *68:22, *68:32
++-----	+-----	-+-----++	-----	-----	--	*68:06, *68:21:01 = *68:21:01, *68:32
++-----	+-----	-----++	-----	-----	--	*68:06, *68:38 = *68:32, *68:38
++-----	+-----	-----++	-----	-----	+-	*68:04, *68:45 = *68:25, *68:45
++-----	+-----	-----++	-----	-----	+-	*68:04, *68:68 = *68:25, *68:68
++-----	+-----	-----++	-----	-----	--	*68:04, *68:59N = *68:25, *68:59N
++-----	+-----	-----++	-----	-----	--	*68:04, *68:55 = *68:25, *68:55
++-----	+-----	-----++	-----	-----	--	*68:04, *68:16 = *68:16, *68:25
++-----	+-----	-----++	-----	-----	--	*68:04, *68:42 = *68:25, *68:36 = *68:25, *68:42
++-----	+-----	-----++	-----	-----	--	*68:04, *68:35 = *68:25, *68:35
++-----	+-----	-----++	-----	-----	--	*68:04, *68:43 = *68:25, *68:43
++-----	+-----	-----++	-----	-----	--	*68:04, *68:33 = *68:25, *68:33
++-----	+-----	-----++	-----	-----	--	*68:04, *68:29 = *68:25, *68:29
++-----	+-----	-----++	-----	-----	--	*68:04, *68:24 = *68:24, *68:25



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++-+-----	-----	---+---+	-----	---+-----	--	*68:04, *68:23 = *68:23, *68:25
++-+-----	-----	---+---+	-----	---+-----	--	*68:04, *68:22 = *68:22, *68:25
++-+-----	-----	+-----+	-----	---+-----	--	*68:04, *68:27 = *68:25, *68:27
++-+-----	-----+	-----+	-----	---+-----	--	*68:04, *68:19 = *68:19, *68:25
++-+-----	-----+	-----+	-----	---+-----	--	*68:04, *68:13 = *68:04, *68:41 = *68:13, *68:25 = *68:25, *68:41
++-+-----	-----+	-----+	-----	---+-----	--	*68:04, *68:12 = *68:12, *68:25
++-+-----	-----+	-----+	-----	---+-----	--	*68:04, *68:11N = *68:11N, *68:25
++-+-----	-----+	-----+	-----	---+-----	--	*68:04, *68:10 = *68:04, *68:17 = *68:10, *68:25 = *68:17, *68:25
++-+-----	-----+	-----+	-----	---+-----	--	*68:04, *68:09 = *68:09, *68:25
++-+-----	-----+	-----+	-----	---+-----	--	*68:04, *68:08:01 = *68:04, *68:08:02 = *68:04, *68:47 = *68:08:01, *68:25 = *68:08:02, *68:25 = *68:25, *68:47
++-+-----	-----+	-----+	-----	---+-----	--	*68:04, *68:07 = *68:04, *68:46 = *68:07, *68:25 = *68:25, *68:46
++-+-----	-----+	-----+	-----	---+-----	--	*68:04, *68:06 = *68:04, *68:32 = *68:06, *68:25 = *68:25, *68:32
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:68 = *68:30, *68:68
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:59N = *68:30, *68:59N
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:55 = *68:30, *68:55
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:42 = *68:30, *68:42
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:37 = *68:30, *68:37
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:35 = *68:30, *68:35
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:43 = *68:30, *68:43
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:22 = *68:22, *68:30
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:65 = *68:30, *68:65
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:21:01 = *68:21:01, *68:30
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:38 = *68:30, *68:38
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:08:01 = *68:08:01, *68:30
++-+-----	-----+	-----+	-----	---+-----	--	*68:01:02, *68:20 = *68:20, *68:30 = *68:20, *68:66
++-+-----	-----+	-----+	-----	---+-----	--	*68:05, *68:13 = *68:05, *68:41
++-+-----	-----+	-----+	-----	---+-----	--	*68:05, *68:10 = *68:05, *68:17
++-+-----	-----+	-----+	-----	---+-----	--	*68:05, *68:08:02 = *68:05, *68:47
++-+-----	-----+	-----+	-----	---+-----	--	*68:05, *68:07 = *68:05, *68:46
++-+-----	-----+	-----+	-----	---+-----	--	*68:05, *68:06 = *68:05, *68:32
++-+-----	-----+	-----+	-----	---+-----	--	*68:03:01, *68:25 = *68:04, *68:30 = *68:25, *68:30
+++-----	-----	+-----+	-----	-----	+	*68:01:02, *68:60 = *68:39, *68:60 = *68:57, *68:60
+++-----	-----	+-----+	-----	-----	+	*68:01:02, *68:80 = *68:39, *68:80 = *68:57, *68:80
+++-----	-----	+-----+	-----	-----	+	*68:01:02, *68:67 = *68:39, *68:67 = *68:57, *68:67
+++-----	-----	+-----+	-----	-----	+	*68:01:01:01, *68:02:01:01 = *68:02:01:01, *68:03:03 = *68:27, *68:39
+++-----	-----	+-----+	-----	-----	+	*68:01:02, *68:53 = *68:39, *68:53 = *68:53, *68:57
+++-----	-----	+-----+	-----	-----	+	*68:01:02, *68:48 = *68:39, *68:48 = *68:48, *68:57
+++-----	-----	+-----+	-----	-----	+	*68:01:02, *68:54 = *68:02:01:01, *68:36 = *68:36, *68:54 = *68:39, *68:54 = *68:54, *68:57
+++-----	-----	+-----+	-----	-----	+	*68:01:02, *68:44 = *68:39, *68:44 = *68:44, *68:57
+++-----	-----	+-----+	-----	-----	+	*68:01:02, *68:34 = *68:34, *68:39 = *68:34, *68:57
+++-----	-----	+-----+	-----	-----	+	*68:01:02, *68:49N = *68:02:01:01, *68:33 = *68:33, *68:49N = *68:39, *68:49N = *68:49N, *68:57
+++-----	-----	+-----+	-----	-----	+	*68:01:02, *68:28 = *68:02:01:01, *68:24 = *68:24, *68:28 = *68:28, *68:39 =



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+++-----	-----+	+-----++	-----	-----	--	*68:28, *68:57
+++-----	-----+	+-----++	-----	-----	--	*68:01:02, *68:31 = *68:01:02, *68:40 = *68:31, *68:39 = *68:39, *68:40 = *68:40, *68:57
+++-----	-----+	+-----++	-----	-----	--	*68:01:02, *68:81 = *68:02:01:01, *68:19 = *68:19, *68:81 = *68:39, *68:81 = *68:57, *68:81
+++-----	-----+	+-----++	-----	-----	--	*68:01:02, *68:51 = *68:02:01:01, *68:12 = *68:12, *68:51 = *68:39, *68:51 = *68:51, *68:57
+++-----	-+-----+	+-----++	-----	-----	--	*68:09, *68:31 = *68:09, *68:40
+++-----	+-----+	+-----++	-----	-----	--	*68:02:01:01, *68:08:01 = *68:08:01, *68:18N
+++-----	+-----+	+-----++	-----	-----	--	*68:01:02, *68:18N = *68:02:01:01, *68:47 = *68:18N, *68:39 = *68:18N, *68:47 = *68:18N, *68:57
+++-----	+-----+	+-----++	-----	-----	--	*68:08:02, *68:31 = *68:08:02, *68:40
+++-----	-----+	+-----++	-----	-----	--	*68:04, *68:39 = *68:25, *68:39
-----+	-----+	+-----++	-----	-----	--	*68:03:01, *68:15 = *68:05, *68:15 = *68:05, *68:31 = *68:15, *68:20 = *68:20, *68:31
+-+-----	-+-----+	+-----++	-----	-----	--	*68:14, *68:31 = *68:14, *68:40
+-+-----	-----+	+-----++	-----	-----	--	*68:36, *68:50 = *68:42, *68:50
+-+-----	-----+	+-----++	-----	-----	--	*68:13, *68:50 = *68:41, *68:50
+-+-----	-+-----+	+-----++	-----	-----	--	*68:10, *68:50 = *68:17, *68:50
+-+-----	-+-----+	+-----++	-----	-----	--	*68:01:01:01, *68:26 = *68:01:02, *68:26 = *68:03:03, *68:26 = *68:26, *68:57 = *68:26, *68:66
+-+-----	+-----+	+-----++	-----	-----	--	*68:08:01, *68:37 = *68:37, *68:63
+-+-----	+-----+	+-----++	-----	-----	--	*68:13, *68:63 = *68:41, *68:63
+-+-----	+-----+	+-----++	-----	-----	--	*68:08:01, *68:50 = *68:08:02, *68:50 = *68:47, *68:50
+-+-----	+-----+	+-----++	-----	-----	--	*68:10, *68:63 = *68:17, *68:63
+-+-----	+-----+	+-----++	-----	-----	--	*68:08:01, *68:26 = *68:08:02, *68:26
+-+-----	-----+	+-----++	-----	-----	--	*68:07, *68:50 = *68:46, *68:50
+-+-----	+-----+	+-----++	-----	-----	--	*68:07, *68:63 = *68:46, *68:63
+-+-----	-----+	+-----++	-----	-----	--	*68:06, *68:50 = *68:32, *68:50
+-+-----	-----+	+-----++	-----	-----	--	*68:04, *68:37 = *68:25, *68:37
+-+-----	-----+	+-----++	-----	-----	--	*68:04, *68:65 = *68:25, *68:65
+-+-----	-----+	+-----++	-----	-----	--	*68:04, *68:21:01 = *68:21:01, *68:25
+-+-----	-----+	+-----++	-----	-----	--	*68:04, *68:50 = *68:25, *68:50
+-+-----	-----+	+-----++	-----	-----	--	*68:04, *68:38 = *68:25, *68:38
+-+-----	-+-----+	+-----++	-----	-----	--	*68:04, *68:14 = *68:14, *68:25
+-+-----	+-----+	+-----++	-----	-----	--	*68:04, *68:63 = *68:25, *68:63
+-+-----	-----+	+-----++	-----	-----	--	*68:03:01, *68:50 = *68:30, *68:50
+-+-----	+-----+	+-----++	-----	-----	--	*68:03:01, *68:63 = *68:30, *68:63
+-+-----	-----+	+-----++	-----	-----	--	*68:01:01:01, *68:20 = *68:05, *68:27 = *68:20, *68:27
+-+-----	-----+	+-----++	-----	-----	--	*68:13, *68:20 = *68:20, *68:41
+-+-----	-+-----+	+-----++	-----	-----	--	*68:10, *68:20 = *68:17, *68:20
+-+-----	+-----+	+-----++	-----	-----	--	*68:08:02, *68:20 = *68:20, *68:47
+-+-----	-----+	+-----++	-----	-----	--	*68:07, *68:20 = *68:20, *68:46
+-+-----	-----+	+-----++	-----	-----	--	*68:06, *68:20 = *68:20, *68:32
+-+-----	-----+	+-----++	-----	-----	+	*68:01:01:01, *68:60 = *68:03:03, *68:60
+-+-----	-----+	+-----++	-----	-----	+	*68:01:01:01, *68:80 = *68:03:03, *68:80
+-+-----	-----+	+-----++	-----	-----	--	*68:01:01:01, *68:67 = *68:03:03, *68:67
+-+-----	-----+	+-----++	-----	-----	--	*68:01:01:01, *68:53 = *68:03:03, *68:53
+-+-----	-----+	+-----++	-----	-----	--	*68:01:01:01, *68:48 = *68:03:03, *68:48
+-+-----	-----+	+-----++	-----	-----	--	*68:01:01:01, *68:54 = *68:02:01:01, *68:42 = *68:03:03, *68:54 = *68:42, *68:54
+-+-----	-----+	+-----++	-----	-----	--	*68:02:01:01, *68:37 = *68:37, *68:54
+-+-----	-----+	+-----++	-----	-----	--	*68:01:01:01, *68:44 = *68:02:01:01,



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+++-----	-----	+-----+	--+-----	---+-----	--	*68:35 = *68:03:03, *68:44 = *68:35, *68:44
+++-----	-----	+-----+	+-----	---+-----	--	*68:01:01:01, *68:34 = *68:02:01:01, *68:43 = *68:03:03, *68:34 = *68:34, *68:43
+++-----	-----	+-----+	+-----	---+-----	--	*68:01:01:01, *68:49N = *68:03:03, *68:49N
+++-----	-----	+-----+	+-----	---+-----	--	*68:33, *68:54 = *68:36, *68:49N
+++-----	-----	+-----+	-----	---+-----	--	*68:01:01:01, *68:28 = *68:03:03, *68:28
+++-----	-----	+-----+	-----	---+-----	--	*68:24, *68:54 = *68:28, *68:36
+++-----	-----	+-----+	-----	---+-----	--	*68:24, *68:49N = *68:28, *68:33
+++-----	-----	+-----+	-----+	---+-----	--	*68:02:01:01, *68:21:01 = *68:21:01, *68:53
+++-----	-----+	+-----+	-----	---+-----	+-	*68:31, *68:45 = *68:40, *68:45
+++-----	-----+	+-----+	-----	---+-----	--	*68:01:01:01, *68:31 = *68:01:01:01, *68:40 = *68:03:03, *68:40
+++-----	-----+	+-----+	-----	+-----	--	*68:16, *68:31 = *68:16, *68:40
+++-----	-----+	+-----+	+-----	-----	--	*68:31, *68:33 = *68:33, *68:40
+++-----	-----+	+-----+	+-----	-----	--	*68:29, *68:31 = *68:29, *68:40
+++-----	-----+	+-----+	-----	-----	--	*68:24, *68:31 = *68:24, *68:40
+++-----	-----+	+-----+	-----	-----	--	*68:23, *68:31 = *68:23, *68:40
+++-----	-----+	+-----+	-----	-----	--	*68:31, *68:65 = *68:40, *68:65
+++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:81 = *68:03:03, *68:81
+++-----	-----+	+-----+	-----	-----	--	*68:19, *68:54 = *68:36, *68:81
+++-----	-----+	+-----+	+-----	-----	--	*68:19, *68:49N = *68:33, *68:81
+++-----	-----+	+-----+	-----	-----	--	*68:19, *68:28 = *68:24, *68:81
+++-----	-----+	+-----+	-----	-----	--	*68:19, *68:31 = *68:19, *68:40
+++-----	-----+	+-----+	-----	-----	--	*68:31, *68:41 = *68:40, *68:41
+++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:51 = *68:03:03, *68:51
+++-----	-----+	+-----+	-----	-----	--	*68:12, *68:54 = *68:36, *68:51
+++-----	-----+	+-----+	+-----	-----	--	*68:12, *68:49N = *68:33, *68:51
+++-----	-----+	+-----+	-----	-----	--	*68:12, *68:28 = *68:24, *68:51
+++-----	-----+	+-----+	-----	-----	--	*68:12, *68:31 = *68:12, *68:40
+++-----	-----+	+-----+	-----	-----	--	*68:12, *68:81 = *68:19, *68:51
+++-----	-----+	+-----+	-----	-----	--	*68:02:01:01, *68:38 = *68:11N, *68:44 = *68:38, *68:44
+++-----	-----+	+-----+	-----	-----	--	*68:11N, *68:31 = *68:11N, *68:40
+++-----	-----+	+-----+	-----	-----	--	*68:17, *68:31 = *68:17, *68:40
+++-----	-----+	+-----+	-----	-----	--	*68:02:01:01, *68:63 = *68:08:01, *68:54 = *68:18N, *68:63 = *68:54, *68:63
+++-----	-----+	+-----+	-----	-----	--	*68:01:01:01, *68:18N = *68:03:03, *68:18N
+++-----	-----+	+-----+	-----	-----	--	*68:18N, *68:36 = *68:47, *68:54
+++-----	-----+	+-----+	+-----	-----	--	*68:18N, *68:33 = *68:47, *68:49N
+++-----	-----+	+-----+	-----	-----	--	*68:18N, *68:24 = *68:28, *68:47
+++-----	-----+	+-----+	-----	-----	--	*68:08:01, *68:31 = *68:08:01, *68:40
+++-----	-----+	+-----+	-----	-----	--	*68:31, *68:47 = *68:40, *68:47
+++-----	-----+	+-----+	-----	-----	--	*68:18N, *68:19 = *68:47, *68:81
+++-----	-----+	+-----+	-----	-----	--	*68:12, *68:18N = *68:47, *68:51
+++-----	-----+	+-----+	-----	-----	--	*68:31, *68:46 = *68:40, *68:46
+++-----	-----+	+-----+	-----	-----	--	*68:31, *68:32 = *68:32, *68:40
+++-----	-----+	+-----+	-----	-----	--	*68:01:02, *68:15 = *68:15, *68:39
+++-----	-----+	+-----+	-----	-----	--	*68:02:01:01, *68:04 = *68:02:01:01, *68:25
+++++-----	-----	+-----+	-----	-----	--	*68:02:01:01, *68:05 = *68:02:01:01, *68:20 = *68:20, *68:39
+++-----	-----	+-----+	-----	-----	--	*68:26, *68:36 = *68:26, *68:42
+++-----	-----	+-----+	-----	-----	--	*68:13, *68:26 = *68:26, *68:41
+++-----	-----	+-----+	-----	-----	--	*68:10, *68:26 = *68:17, *68:26
+++-----	-----	+-----+	-----	-----	--	*68:07, *68:26 = *68:26, *68:46
+++-----	-----	+-----+	-----	-----	--	*68:04, *68:26 = *68:25, *68:26
+++-----	-----	+-----+	-----	-----	--	*68:03:01, *68:26 = *68:26, *68:30
+++-----	-----	+-----+	-----	-----	--	*68:35, *68:54 = *68:42, *68:44



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+++-----	-----	+-----+	---+---	-----	--	*68:34, *68:42 = *68:43, *68:54
+++-----	-----	+-----+	---+---	-----	--	*68:34, *68:35 = *68:43, *68:44
+++-----	-----+	+-----+	-----	---+---+	--	*68:31, *68:68 = *68:40, *68:68
+++-----	-----+	+-----+	-----	---+---	--	*68:31, *68:59N = *68:40, *68:59N
+++-----	-----+	+-----+	-----	---+---	--	*68:31, *68:55 = *68:40, *68:55
+++-----	-----+	+-----+	---+---	-----	--	*68:31, *68:42 = *68:40, *68:42
+++-----	-----+	+-----+	---+---	-----	--	*68:31, *68:37 = *68:37, *68:40
+++-----	-----+	+-----+	---+---	-----	--	*68:31, *68:35 = *68:35, *68:40
+++-----	-----+	+-----+	---+---	-----	--	*68:31, *68:43 = *68:40, *68:43
+++-----	-----+	+-----+	-----	---+---	--	*68:22, *68:31 = *68:22, *68:40
+++-----	-----+	+-----+	-----+	-----	--	*68:21:01, *68:31 = *68:21:01, *68:40
+++-----	-----+	+-----+	-----+	-----	--	*68:02:01:01, *68:50 = *68:48, *68:50 = *68:50, *68:51
+++-----	---+---+	+-----+	---+---	-----	--	*68:31, *68:38 = *68:38, *68:40
+++-----	-+-----+	+-----	-----	---+---	--	*68:26, *68:31 = *68:26, *68:40
+++-----	+-----+	+-----+	---+---	-----	--	*68:31, *68:63 = *68:40, *68:63
++++-----	-----	+-----+	-----	---+---	-+	*68:04, *68:60 = *68:25, *68:60
++++-----	-----	+-----+	-----	---+---+	--	*68:04, *68:80 = *68:25, *68:80
++++-----	-----	+-----+	-----	---+---	--	*68:04, *68:67 = *68:25, *68:67
++++-----	-----	+-----+	-----+	-----	--	*68:04, *68:53 = *68:25, *68:53
++++-----	-----	+-----+	-----+	-----	--	*68:04, *68:48 = *68:25, *68:48
++++-----	-----	+-----+	---+---	-----	--	*68:04, *68:54 = *68:25, *68:54
++++-----	-----	+-----+	---+---	-----	--	*68:04, *68:44 = *68:25, *68:44
++++-----	-----	+-----+	---+---	-----	--	*68:04, *68:34 = *68:25, *68:34
++++-----	-----	+-----+	---+---	-----	--	*68:04, *68:49N = *68:25, *68:49N
++++-----	-----	+-----+	-----	---+---	--	*68:04, *68:28 = *68:25, *68:28
++++-----	-----+	+-----+	-----	---+---	--	*68:04, *68:40 = *68:25, *68:31 = *68:25, *68:40
++++-----	-----+	+-----+	-----	---+---	--	*68:04, *68:81 = *68:25, *68:81
++++-----	-----+	+-----+	-----	---+---	--	*68:04, *68:51 = *68:25, *68:51
++++-----	+-----	+-----+	-----	---+---	--	*68:04, *68:18N = *68:18N, *68:25
+++++-----	-----	+-----+	-----	---+---	-+	*68:05, *68:60 = *68:20, *68:60
+++++-----	-----	+-----+	-----	---+---	-+	*68:05, *68:80 = *68:20, *68:80
+++++-----	-----	+-----+	-----	---+---	--	*68:05, *68:67 = *68:20, *68:67
+++++-----	-----	+-----+	-----+	-----	--	*68:05, *68:53 = *68:20, *68:53
+++++-----	-----	+-----+	-----+	-----	--	*68:05, *68:48 = *68:20, *68:48
+++++-----	-----	+-----+	---+---	-----	--	*68:05, *68:54 = *68:20, *68:54
+++++-----	-----	+-----+	---+---	-----	--	*68:05, *68:44 = *68:20, *68:44
+++++-----	-----	+-----+	---+---	-----	--	*68:05, *68:34 = *68:20, *68:34
+++++-----	-----	+-----+	---+---	-----	--	*68:05, *68:49N = *68:20, *68:49N
+++++-----	-----	+-----+	-----	---+---	--	*68:05, *68:28 = *68:20, *68:28
+++++-----	-----+	+-----+	-----	---+---	--	*68:05, *68:40 = *68:20, *68:40
+++++-----	-----+	+-----+	-----	---+---	--	*68:05, *68:81 = *68:20, *68:81
+++++-----	-----+	+-----+	-----	---+---	--	*68:05, *68:51 = *68:20, *68:51
+++++-----	+-----	+-----+	-----	---+---	--	*68:05, *68:18N = *68:18N, *68:20
+++-----	---+---+	+-----+	-----+	---+---	--	*68:31, *68:50 = *68:40, *68:50

- *68:01:01:01 = *68:01:01:01-68:01:01:02, 68:01:03-68:01:05, 68:01:07-68:01:10 and
68:21:02, 68:56, 68:58, 68:72, 68:79
- *68:01:02 = *68:01:02, 68:01:06 and 68:69-68:71, 68:73, 68:76, 68:83, 68:85
- *68:02:01:01 = *68:02:01:01-68:02:04, 68:62, 68:64, 68:74, 68:77-68:78, 68:82
- *68:03:01 = *68:03:01-68:03:02
- *68:29 = *68:29, 68:52
- *68:54 = *68:54, 68:61
- *68:57 = *68:57, 68:84
- *68:66 = *68:66, 68:75



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SPECIFICITY TABLE

HLA-A*68 SSP subtyping

Specificities and sizes of the PCR products of the 42 primer mixes used for
 HLA-A*68 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-A*68 alleles ³	Other amplified HLA-A alleles ⁴
1	195 bp	800 bp	*68:01:01:01- 68:02:04, 68:06- 68:14, 68:16-68:19, 68:21:01-68:30, 68:32-68:35, 68:37- 68:45, 68:46 ^w , 68:47- 68:56, 68:58-68:83, 68:85	*01:13, 02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 03:01:01:01- 03:01:08, 03:01:10-03:01:22, 03:01:24-03:07, 03:09-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:56, 03:58-03:88, 03:90-03:106, 03:109-03:110, 03:112-03:133, 03:135, 11:01:01-11:01:35, 11:03- 11:13, 11:15:01-11:15:02, 11:20-11:27, 11:29-11:37, 11:39, 11:41-11:44, 11:46- 11:50Q, 11:52Q, 11:54- 11:56, 11:58-11:70, 11:72- 11:76, 11:79-11:97, 11:99N- 11:100, 11:102-11:105, 11:107-11:109N, 11:112, 24:19, 30:18, 30:55, 34:01:01-34:09, 66:01-66:02, 66:04, 66:06-66:10, 66:12- 66:14, 66:16, 69:01, 74:13, C*03:82
2	435 bp	1070 bp	*68:01:01:01- 68:01:10, 68:03:01- 68:05, 68:08:01- 68:09, 68:11N-68:12, 68:16-68:17, 68:19- 68:26, 68:29, 68:32- 68:33, 68:35-68:39, 68:41-68:43, 68:45- 68:47, 68:50, 68:52, 68:55-68:59N, 68:63, 68:65, 68:68-68:73, 68:76, 68:79, 68:83- 68:85	*01:51, 03:24, 11:10, 33:18, 34:02:01-34:04, 34:07-34:09

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3	195 bp	1070 bp	*68:02:01:01- 68:02:04, 68:15, 68:18N, 68:28, 68:31, 68:34, 68:39-68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77- 68:78, 68:80-68:82	
4⁹	180 bp, 225 bp	1070 bp	*68:03:01-68:03:02, 68:05, 68:20, 68:30	*02:06:05
5¹⁰	140 bp, 235 bp	800 bp	*68:04, 68:25	*11:98, 33:51, 66:15
6	230 bp	1070 bp	*68:05, 68:15, 68:20	*02:06:05, 02:122, 02:143
7	145 bp	1070 bp	*68:06, 68:32	*02:52
8¹¹	160 bp, 240 bp	800 bp	*68:07, 68:46	
9^{7,12}	150 bp, 195 bp, 250 bp	800 bp	*68:08:01-68:08:02, 68:18N, 68:47, 68:63	*26:43:01-26:43:02, 34:03 [?] - 34:04 [?] , 34:06 [?] -34:09 [?] , 66:06
10	165 bp	800 bp	*68:09, 68:26	*01:12, 01:19, 03:10, 11:01:01-11:01:34, 11:02:01- 11:07, 11:10-11:21N, 11:26- 11:27, 11:29-11:30, 11:32- 11:34, 11:36-11:43, 11:45- 11:49, 11:51-11:52Q, 11:54- 11:58, 11:60-11:93, 11:95- 11:111, 24:17, 24:41, 29:05
11^{13,25}	160 bp, 200 bp	800 bp	*68:10, 68:14, 68:17	
12¹⁴	205 bp, 405 bp	1070 bp	*68:11N, 68:38	
13¹⁵	210 bp, 240 bp	800 bp	*68:12, 68:50-68:51	*26:18
14^{8,16}	150 bp, 195 bp	800 bp	*68:13, 68:41	*11:103
15¹⁷	145 bp, 205 bp	1070 bp	*68:14, 68:19, 68:81	*02:121, 02:237, 03:17, 23:47, 24:18
16	215 bp	1070 bp	*68:15, 68:31, 68:40	*02:122, 02:143
17	175 bp	1070 bp	*68:02:01:01- 68:02:04, 68:15, 68:18N, 68:20, 68:27- 68:28, 68:31, 68:34,	*02:02 ^w , 02:03:01-02:03:04, 02:05:01 ^w -02:05:05 ^w , 02:08 ^w , 02:22:01-02:22:02, 02:47 ^w , 02:49-02:50, 02:63 ^w , 02:102 ^w ,

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			68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80-68:82	02:104, 02:115 ^W , 02:117, 02:122, 02:135-02:136, 02:148, 02:154 ^W -02:155 ^W , 02:172 ^W , 02:179 ^W , 02:186 ^W , 02:191, 02:209 ^W , 02:230, 02:232 ^W , 02:253, 02:258, 02:264, 02:267, 02:281, 02:286 ^W , 02:315, 02:320 ^W , 02:323, 02:324 ^W , 23:02, 24:06, 24:87, 24:138, 24:167, 25:01:01-25:03, 25:05-25:11, 25:13-25:16, 26:01:01-26:01:04, 26:01:07-26:07:02, 26:09-26:26, 26:28-26:39, 26:41-26:42, 26:45-26:47, 26:49-26:66, 26:68-26:72, 31:30, 32:10, 34:01:01-34:01:02, 34:05, 43:01, 66:01-66:05, 66:07-66:16, B*27:25, B*27:45, C*02:07
18¹⁸	200 bp, 225 bp	800 bp	*68:21:01, 68:26, 68:65	*01:01:01:01-01:04N, 01:06-01:29, 01:31N-01:33, 01:35-01:71, 01:73-01:78, 01:80-01:101, 01:103-01:104, 03:04:01, 03:18, 03:97, 03:122, 03:135, 11:27, 11:38-11:39, 11:94, 24:17, 24:41, 29:03, 80:01-80:02
19	325 bp	1070 bp	*68:22	
20⁵	90 bp	1070 bp	*68:23	*01:20, 01:66, 01:73, 02:114, 02:246, 02:279, 03:95, 29:22
21¹⁹	165 bp, 215 bp	1070 bp	*68:24, 68:28	*02:49, 24:87, B*27:45
22	165 bp	800 bp	*68:01:01:01-68:01:10, 68:03:01-68:05, 68:07, 68:10-68:14, 68:16-68:17, 68:19-68:25, 68:29-68:30, 68:32-68:33, 68:35-68:39, 68:41-68:43, 68:45-68:47, 68:50, 68:52, 68:55-68:59N, 68:65-68:66, 68:68-68:73, 68:75-68:76, 68:79, 68:83-68:85	*01:01:01:01 ^W -01:04N ^W , 01:07 ^W -01:11N ^W , 01:13 ^W -01:18N ^W , 01:20 ^W -01:24 ^W , 01:26 ^W -01:29 ^W , 01:31N ^W -01:33 ^W , 01:35 ^W -01:52N ^W , 01:54 ^W -01:64 ^W , 01:66 ^W -01:78 ^W , 01:80 ^W -01:97 ^W , 01:98, 01:99 ^W , 01:101 ^W -01:104 ^W , 02:229, 03:18 ^W , 03:50, 03:66, 11:08, 11:44, 29:28, 36:01 ^W , 36:02, 36:03 ^W -36:05 ^W

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23	185 bp	1070 bp	*68:01:01:01- 68:01:10, 68:03:01- 68:05, 68:07-68:14, 68:16-68:17, 68:19- 68:25, 68:29-68:30, 68:32-68:33, 68:35- 68:39, 68:41-68:43, 68:45-68:47, 68:50, 68:52, 68:55-68:59N, 68:63, 68:66, 68:68- 68:73, 68:75-68:76, 68:79, 68:83-68:85	*02:114, 02:229, 02:246, 02:279, 03:01:01:01- 03:01:29, 03:01:31-03:17, 03:20-03:39, 03:41-03:42, 03:44-03:52, 03:54-03:81, 03:83-03:96, 03:99-03:102, 03:104, 03:106-03:121, 03:123-03:133, 11:04, 11:35, 29:01:01:01-29:02:01:02, 29:02:03-29:02:09, 29:04- 29:31, 30:26, 31:03-31:04, 31:06, 32:04, 32:30, 32:32, 33:18, 34:02:01-34:04, 34:07- 34:09, 36:01-36:03, 36:05
24	375 bp	1070 bp		*02:55, 26:22, 33:22, 66:09, 69:01
25^{5,20}	110 bp, 240 bp	1070 bp	*68:29, 68:52	*02:243, 24:82
26^{5,21}	100 bp, 185 bp	1070 bp	*68:33, 68:49N	
27²²	185 bp, 235 bp	1070 bp	*68:34, 68:43	
28²³	200 bp, 230 bp	1070 bp	*68:35, 68:38, 68:44	
29^{5,6,24}	80 bp, 250 bp	800 bp	*68:36, 68:42, 68:54, 68:61, 68:63 ^w	*02:03:01-02:03:04, 02:26 ^w , 02:99 ^w , 02:117, 02:148, 02:171:02 ^w , 02:253, 02:258, 02:264, 02:281, 02:315, 02:323, 11:25 ^w , 26:01:17
30	145 bp, 245 bp	1070 bp		*02:117, 02:135, 25:01:01- 25:07, 25:10-25:16, 26:01:01- 26:01:14, 26:01:16-26:10, 26:12-26:13, 26:15-26:17, 26:19-26:27, 26:29-26:39, 26:41-26:43:02, 26:45-26:46, 26:48-26:72, 34:01:01- 34:01:02, 34:05, 43:01, 66:01-66:15
31⁶	220 bp	1070 bp	*68:48, 68:50	*25:01:01-25:04, 25:06- 25:07, 25:09-25:16, 26:01:01- 26:10, 26:12-26:43:02, 26:45- 26:46, 26:48-26:53, 26:55- 26:72, 34:01:01-34:01:02, 34:03 [?] -34:09 [?] , 43:01, 66:01- 66:15

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32	175 bp	1070 bp	*68:21:01, 68:53	*02:74:02, 02:159, 23:25
33	150 bp	1070 bp	*68:16	
34	165 bp	1070 bp	*68:55	
35	140 bp	1070 bp	*68:59N	
36	195 bp	1070 bp	*68:01:01:01- 68:01:01:02, 68:01:03-68:01:05, 68:01:07-68:01:10, 68:03:03-68:04, 68:08:01, 68:21:02- 68:22, 68:25-68:27, 68:35, 68:42-68:43, 68:50, 68:55-68:56, 68:58-68:59N, 68:63, 68:68, 68:72, 68:79	*11:10, 25:01:01-25:01:03, 25:01:05-25:02, 25:04-25:14, 25:16, 26:01:01-26:06, 26:08- 26:15, 26:17-26:18, 26:21- 26:34, 26:36-26:43:02, 26:45- 26:63, 26:65-26:71N, 33:51, 34:01:01-34:07, 34:09, 66:01- 66:16, 69:01
37	285 bp	1070 bp	*68:26, 68:65	*26:29, 26:49, 66:10
38	145 bp	1070 bp	*68:67	
39	180 bp	1070 bp	*68:68	
40	195 bp	1070 bp	*68:80	*24:141
41	200 bp	1070 bp	*68:45	*24:24, 24:67, 26:16
42	130 bp	1070 bp	*68:60	

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-A*68 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-A*68 subtyping.

In addition, wells number 5, 8 to 11, 13, 14, 18, 22 and 29 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

³For several HLA-A alleles 1st and 4th exon or intron 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

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target sequences or not. We assume that unknown sequences in the 1st and 4th exon or in the introns are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A*68 alleles will be amplified by primer mixes 1, 2, 4 to 7, 9, 10, 13, 15 to 18, 20 to 25, 29 to 32, 36, 37, 40 and 41. In addition, the B*27:25, B*27:45 and C*02:07 alleles will be amplified by primer mix 17, the B*27:45 allele will be amplified by primer mix 21 and the C*03:82 allele will be amplified by primer mix 1.

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

⁶Primer mixes 29 and 31 may yield less HLA-specific PCR product than the other A*68 primer mixes.

⁷Primer mix 9 may give rise to non-specific amplifications.

⁸Primer mix 14 may have a tendency of giving rise to primer oligomer formation.

⁹Primer mix 4: Specific PCR fragment of 180 bp in the A*68:30 allele. Specific PCR fragment of 225 bp in the A*68:03:01-68:03:02, A*68:05 and A*68:20 alleles. Specific PCR fragment of 180 and 225 bp in the A*02:06:05 allele.

¹⁰Primer mix 5: Specific PCR fragment of 140 bp in the A*68:25 allele. Specific PCR fragment of 235 bp in the A*68:04 and the A*11:98, 33:51 and 66:15 alleles.

¹¹Primer mix 8: Specific PCR fragment of 160 bp in the A*68:07 allele. Specific PCR fragment of 240 bp in the A*68:46 allele.

¹²Primer mix 9: Specific PCR fragment of 150 bp in the A*68:18N allele. Specific PCR fragment of 195 bp in the A*68:47 allele. Specific PCR fragment of 250 bp in the A*68:08:01-68:08:02 and 68:63 and the A*26:43:01-26:43:02, 34:03[?]-34:04[?], 34:06[?]-34:09[?] and 66:06 alleles.

¹³Primer mix 11: Specific PCR fragment of 160 bp in the A*68:17 allele. Specific PCR fragment of 200 bp in the A*68:10 and A*68:14 alleles.

¹⁴Primer mix 12: Specific PCR fragment of 205 bp in the A*68:38 allele. Specific PCR fragment of 405 bp in the A*68:11N allele.

¹⁵Primer mix 13: Specific PCR fragment of 210 bp in the A*68:12 and A*68:50 alleles. Specific PCR fragment of 240 bp in the A*68:51 and 26:18 alleles.

¹⁶Primer mix 14: Specific PCR fragment of 150 bp in the A*68:41 allele. Specific PCR fragment of 195 bp in the A*68:13 and the A*11:103 alleles.

¹⁷Primer mix 15: Specific PCR fragment of 145 bp in the A*68:19 and in the A*02:237, 03:17 and 24:18 alleles. Specific PCR fragment of 205 bp in the A*68:14 and 68:81 and the A*02:121 and 23:47 alleles.

¹⁸Primer mix 18: Specific PCR fragment of 200 bp in the A*68:26 and 68:65 and the A*01:01:01:01-01:04N, 01:06-01:29, 01:31N-01:33, 01:35-01:71, 01:73-01:78, 01:80-01:85, 01:87-01:101, 01:103-01:104, 03:18, 03:97, 03:122, 03:135, 11:27, 11:38-11:39, 11:94, 24:17, 24:41, 29:03 and 80:01-80:02 alleles. Specific PCR fragment of 225 bp in the A*68:21:01 and the A*03:04:01 alleles. Specific PCR fragment of 200 and 225 bp in the A*01:86 allele.

¹⁹Primer mix 21: Specific PCR fragment of 165 bp in the A*68:28 and in the A*02:49, 24:87 and in the B*27:45 alleles. Specific PCR fragment of 215 bp in the A*68:24 allele.

²⁰Primer mix 25: Specific PCR fragment of 110 bp in the A*68:52 allele. Specific PCR fragment of 240 bp in the A*68:29 and in the A*02:243 and 24:82 alleles.

²¹Primer mix 26: Specific PCR fragment of 100 bp in the A*68:49N allele. Specific PCR fragment of 185 bp in the A*68:33 allele.

²²Primer mix 27: Specific PCR fragment of 185 bp in the A*68:34 allele. Specific PCR fragment of 235 bp in the A*68:43 allele.

²³Primer mix 28: Specific PCR fragment of 200 bp in the A*68:35 and 68:38 alleles. Specific PCR fragment of 230 bp in the A*68:44 allele.

²⁴Primer mix 29: Specific PCR fragment of 80 bp in the A*68:42, 68:54, 68:61 and 68:63^w and the A*02:03:01-02:03:04, 02:26^w, 02:99^w, 02:117, 02:148, 02:171:02^w, 02:253, 02:258, 02:264, 02:281, 02:315, 02:323, 11:25^w and 26:01:17 alleles. Specific PCR fragment of 250 bp in the A*68:36 allele.

²⁵Primer mix 11 may faintly amplify the A*02:06:05, 02:06:09, 02:122, 11:70 and 26:07:01-26:07:02 alleles.

'w, may be weakly amplified.

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

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INTERPRETATION TABLE																								
HLA-A*68 SSP subtyping																								
Amplification patterns of the A*68:01 to A*68:85 and the A*69:01 alleles																								
	Well⁸																							
	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.	195	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225			215			
Length of int.	800	1070	1070	1070	800	1070	1070	800	800	800	800	1070	800	800	1070	1070	1070	800	1070	1070	1070	800	1070	1070
pos. control ¹																								
5'-primer(s) ²	127	261	106	102	98	102	145	98	106	413	98	47	2 nd I	103	453	106	395	413	317	362	102	413	413	261
	5'-ggg 3'	5'-AAC 3'	5'-CCA 3'	5'-ACT 3'	5'-CTA 3'	5'-ACT 3'	5'-CCA 3'	5'-CTA 3'	5'-CCA 3'	5'-CCg 3'	5'-CTA 3'	5'-g.T 3'	5'-CCT 3'	5'-CCT 3'	5'-AAA 3'	5'-CCA 3'	5'-gCA 3'	5'-CCg 3'	5'-gCA 3'	5'-gAg 3'	5'-ACT 3'	5'-CCg 3'	5'-CCg 3'	5'-AAC 3'
					397	106	414	418	2 nd I		419	376		413			413		362	413				
					5'-gCC 3'	5'-CCA 3'	5'-gAA 3'	5'-AgC 3'	5'-CCT 3'		5'-ggT 3'	5'-gCA 3'		5'-CCg 3'			5'-CCA 3'	5'-TCC 3'		5'-gAg 3'	5'-CCA 3'			
3'-primer(s) ³	282	413	259	240	290	292	259	299	216	538	256	282	497	255	555	278	539	570	362	413	275	539	559	355
	5'-gAC 3'	5'-gCC 3'	5'-gTT 3'	5'-ggA 3'	5'-CAA 3'	5'-gTg 3'	5'-gTT 3'	5'-TCA 3'	5'-gCT 3'	5'-CTg 3'	5'-CTC 3'	5'-gAC 3'	5'-TgA 3'	5'-Cgg 3'	5'-CCA 3'	5'-ggC 3'	5'-TCC 3'	5'-CCg 3'	5'-TCA 3'	5'-gCC 3'	5'-CCC 3'	5'-TCC 3'	5'-CgT 3'	5'-gAC 3'
	282			282	497		506	539	479		538	538	497	521	616	282		595			538			
	5'-gAC 3'			5'-gAg 3'	5'-Tgg 3'		5'-TgT 3'	5'-TCC 3'	5'-CCA 3'		5'-CCA 3'	5'-CCA 3'	5'-TgA 3'	5'-ggA 3'	5'-CgC 3'	5'-gAg 3'		5'-CCg 3'			5'-CCg 3'			
				292					538				524			282								
				5'-gTg 3'					5'-Cag 3'				5'-CAC 3'			5'-gAg 3'								
									538															
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

101.418-12/04 – including *Taq* pol., IFU-01 Rev. No. 03
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Lot No.: 36N

Lot-specific information

Length of spec.	195	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225				215		
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-A allele ⁴																								
*68:01:01:01-68:01:01:02, 68:01:03-68:01:05, 68:01:07-68:01:10, 68:21:02, 68:56, 68:58, 68:72, 68:79	1	2																				22	23	
*68:01:02, 68:01:06, 68:37, 68:69-68:71, 68:73, 68:76, 68:83, 68:85 ⁹	1	2																				22	23	
*68:02:01:01-68:02:04, 68:62, 68:64, 68:74, 68:77- 68:78, 68:82	1		3														17							
*68:03:01-68:03:02		2		4																		22	23	
*68:03:03		2																				22	23	
*68:04		2			5																	22	23	
*68:05		2		4		6																22	23	
*68:06	1						7																	
*68:07	1							8														22	23	
*68:08:01	1	2							9														23	
*68:08:02	1	2							9														23	
*68:09	1	2								10													23	
*68:10	1										11											22	23	
*68:11N	1	2										12										22	23	
*68:12	1	2											13									22	23	
*68:13	1													14								22	23	
*68:14	1									11					15							22	23	
*68:15			3			6										16	17							
*68:16	1	2																				22	23	
*68:17	1	2								11												22	23	
*68:18N	1		3						9								17							
*68:19	1	2												15								22	23	
*68:20		2		4		6											17					22	23	
*68:21:01	1	2																18				22	23	
*68:22	1	2																	19			22	23	
*68:23	1	2																		20		22	23	
*68:24	1	2																				21	22	23
*68:25	1	2			5																	22	23	
*68:26	1	2							10								18							
*68:27, 66:16 ⁵	1																17							
*68:28	1		3														17					21		
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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Lot No.: **36N**

Lot-specific information

110	100	185	200	80	145	220	175	150	165	140	195	285	145	180	195	200	130	Length of spec. PCR product(s)
240	185	235	230	250	245													Well No.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	HLA-A allele ⁴
											36							*68:01:01:01-68:01:01:02, 68:01:03-68:01:05, 68:01:07-68:01:10, 68:21:02, 68:56, 68:58, 68:72, 68:79
																		*68:01:02, 68:01:06, 68:37, 68:69-68:71, 68:73, 68:76, 68:83, 68:85 ⁹
																		*68:02:01:01-68:02:04, 68:62, 68:64, 68:74, 68:77, 68:78, 68:82
																		*68:03:01-68:03:02
											36							*68:03:03
											36							*68:04
																		*68:05
																		*68:06
																		*68:07
											36							*68:08:01
																		*68:08:02
																		*68:09
																		*68:10
																		*68:11N
																		*68:12
																		*68:13
																		*68:14
																		*68:15
										33								*68:16
																		*68:17
																		*68:18N
																		*68:19
																		*68:20
							32											*68:21:01
											36							*68:22
																		*68:23
																		*68:24
											36							*68:25
											36	37						*68:26
											36							*68:27, 66:16 ⁵
																		*68:28
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.

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Lot No.: **36N**

Lot-specific information

Length of spec.	195	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225			215			
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
*68:29, 68:52 ⁶	1	2																				22	23	
*68:30	1			4																		22	23	
*68:31			3													16	17							
*68:32	1	2					7															22	23	
*68:33	1	2																				22	23	
*68:34	1		3														17							
*68:35	1	2																				22	23	
*68:36		2																				22	23	
*68:38	1	2										12										22	23	
*68:39	1	2	3																			22	23	
*68:40	1		3													16	17							
*68:41	1	2												14								22	23	
*68:42	1	2																				22	23	
*68:43	1	2																				22	23	
*68:44	1		3														17							
*68:45	1	2																				22	23	
*68:46	w	2					8															22	23	
*68:47	1	2						9														22	23	
*68:48	1		3														17							
*68:49N	1		3														17							
*68:50	1	2												13								22	23	
*68:51	1		3											13			17							
*68:53	1		3														17							
*68:54, 68:61	1		3														17							
*68:55	1	2																				22	23	
*68:57, 68:84		2																				22	23	
*68:59N	1	2																				22	23	
*68:60	1		3														17							
*68:63	1	2							9															23
*68:65	1	2																18				22		
*68:66, 68:75, 03:50, 03:66 ⁷	1																					22	23	
*68:67	1		3														17							
*68:68	1	2																				22	23	
*68:80	1		3														17							
*68:81	1		3												15		17							
*69:01	1																							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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 101.418-12u/04– without *Taq* pol., IFU-02 Rev. No. 03

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Lot No.: **36N**

Lot-specific information

110	100	185	200	80	145	220	175	150	165	140	195	285	145	180	195	200	130	Length of spec. PCR product(s)
240	185	235	230	250	245													Well No.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
																		*68:29, 68:52 ⁶
																		*68:30
																		*68:31
																		*68:32
	26																	*68:33
		27																*68:34
			28								36							*68:35
				29														*68:36
																		*68:38
																		*68:39
																		*68:40
																		*68:41
																		*68:42
		27		29							36							*68:43
											36							*68:44
			28															*68:45
																41		*68:46
																		*68:47
	26					31												*68:48
																		*68:49N
							31				36							*68:50
																		*68:51
																		*68:53
				29			32											*68:54, 68:61
									34		36							*68:55
																		*68:57, 68:84
										35	36							*68:59N
																	42	*68:60
				w							36							*68:63
												37						*68:65
																		*68:66, 68:75, 03:50, 03:66 ⁷
													38					*68:67
											36			39				*68:68
															40			*68:80
																		*68:81
											36							*69:01
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.

101.418-12/04 – including *Taq* pol., IFU-01 Rev. No. 03
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Lot No.: **36N**

Lot-specific information

Length of spec.	195	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225				215		
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
*01:01:01:01-01:04N, 01:07-01:11N, 01:14- 01:18N, 01:21-01:24, 01:26-01:29, 01:31N- 01:33, 01:35-01:50, 01:52N, 01:54-01:64, 01:67-01:71, 01:74-01:78, 01:80-01:97, 01:99, 01:101, 01:103-01:104																		18				w		
*01:06, 01:25, 01:53N, 01:65, 01:100, 29:03, 80:01-80:02																		18						
*01:12, 01:19, 11:38, 24:17, 24:41										10								18						
*01:13, 03:18	1																	18				w		
*01:20, 01:66, 01:73																		18		20		w		
*01:51		2																18				w		
*01:72, 01:102, 36:04																						w		
*01:98																		18				22		
*02:02, 02:05:01- 02:05:05, 02:08, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:232, 02:286, 02:320, 02:324																		w						
*02:03:01-02:03:04, 02:148, 02:253, 02:258, 02:264, 02:281, 02:315, 02:323																		17						
*02:06:05				4		6																		
*02:22:01-02:22:02, 02:50, 02:104, 02:136, 02:191, 02:230, 02:267, 23:02, 24:06, 24:138, 24:167, 31:30, 32:10, <i>B*27:25, C*02:07</i>																		17						
*02:26, 02:99, 02:171:02																								
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

101.418-12/04 – including *Taq* pol., IFU-01 Rev. No. 03
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Lot No.: **36N**

Lot-specific information

110	100	185	200	80	145	220	175	150	165	140	195	285	145	180	195	200	130	Length of spec. PCR product(s)
240	185	235	230	250	245													Well No.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
																		*01:01:01:01-01:04N, 01:07-01:11N, 01:14- 01:18N, 01:21-01:24, 01:26-01:29, 01:31N- 01:33, 01:35-01:50, 01:52N, 01:54-01:64, 01:67-01:71, 01:74-01:78, 01:80-01:97, 01:99, 01:101, 01:103-01:104
																		*01:06, 01:25, 01:53N, 01:65, 01:100, 29:03, 80:01-80:02
																		*01:12, 01:19, 11:38, 24:17, 24:41
																		*01:13, 03:18
																		*01:20, 01:66, 01:73
																		*01:51
																		*01:72, 01:102, 36:04
																		*01:98
																		*02:02, 02:05:01- 02:05:05, 02:08, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:232, 02:286, 02:320, 02:324
				29														*02:03:01-02:03:04, 02:148, 02:253, 02:258, 02:264, 02:281, 02:315, 02:323
																		*02:06:05
																		*02:22:01-02:22:02, 02:50, 02:104, 02:136, 02:191, 02:230, 02:267, 23:02, 24:06, 24:138, 24:167, 31:30, 32:10, B*27:25, C*02:07
				w														*02:26, 02:99, 02:171:02
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.

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Lot No.: **36N**

Lot-specific information

Length of spec.	195	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225			215			
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
*02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 03:01:30, 03:19, 03:40, 03:43, 03:53, 03:82, 03:98, 03:103, 03:105, 11:01:35, 11:09, 11:22-11:24:02, 11:31, 11:50Q, 11:59, 11:112, 24:19, 30:18, 30:55, 74:13, C*03:82	1																							
*02:49, 24:87, B*27:45																	17				21			
*02:52							7																	
*02:55, 33:22																								24
*02:74:02, 02:159, 23:25																								
*02:114, 02:246, 02:279, 29:22																				20			23	
*02:117																	17							
*02:121, 02:237, 23:47, 24:18														15										
*02:122						6										16	17							
*02:135																	17							
*02:143						6										16								
*02:229, 29:28, 36:02																						22	23	
*02:243, 24:82																								
*03:01:01:01-03:01:08, 03:01:10-03:01:22, 03:01:24-03:01:29, 03:01:31-03:03N, 03:04:02-03:07, 03:09, 03:11N-03:16, 03:20-03:23:02, 03:25-03:31, 03:33-03:35, 03:37-03:39, 03:42, 03:44-03:49, 03:51-03:52, 03:54-03:56, 03:58-03:65, 03:67-03:81, 03:83-03:88, 03:90-03:94, 03:96, 03:99-03:102, 03:104, 03:106, 03:109-03:110, 03:112-03:121, 03:123-03:133, 11:35	1																							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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240	185	235	230	250	245													PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.
																		*02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 03:01:30, 03:19, 03:40, 03:43, 03:53, 03:82, 03:98, 03:103, 03:105, 11:01:35, 11:09, 11:22-11:24:02, 11:31, 11:50Q, 11:59, 11:112, 24:19, 30:18, 30:55, 74:13, C*03:82
																		*02:49, 24:87, B*27:45
																		*02:52
																		*02:55, 33:22
							32											*02:74:02, 02:159, 23:25
																		*02:114, 02:246, 02:279, 29:22
				29	30													*02:117
																		*02:121, 02:237, 23:47, 24:18
																		*02:122
				30														*02:135
																		*02:143
																		*02:229, 29:28, 36:02
25																		*02:243, 24:82
																		*03:01:01:01-03:01:08, 03:01:10-03:01:22, 03:01:24-03:01:29, 03:01:31-03:03N, 03:04:02-03:07, 03:09, 03:11N-03:16, 03:20-03:23:02, 03:25-03:31, 03:33-03:35, 03:37-03:39, 03:42, 03:44-03:49, 03:51-03:52, 03:54-03:56, 03:58-03:65, 03:67-03:81, 03:83-03:88, 03:90-03:94, 03:96, 03:99-03:102, 03:104, 03:106, 03:109-03:110, 03:112-03:121, 03:123-03:133, 11:35
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.

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PCR product(s)				225	235			240	195		200	405	240	195	205			225			215			
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
*03:01:09, 03:01:23, 03:08, 03:32, 03:36N, 03:41, 03:57, 03:89, 03:107-03:108, 03:111, 29:01:01:01-29:02:01:02, 29:02:03-29:02:09, 29:04, 29:06-29:21, 29:23-29:27, 29:29-29:31, 30:26, 31:03- 31:04, 31:06, 32:04, 32:30, 32:32																								23
*03:04:01	1																18							23
*03:10, 11:04	1								10															23
*03:17	1														15									23
*03:24	1	2																						23
*03:95	1																			20				23
*03:97, 03:122, 03:135, 11:94	1																18							
*11:01:01-11:01:34, 11:03, 11:05-11:07, 11:11- 11:13, 11:15:01-11:15:02, 11:20-11:21N, 11:26, 11:29-11:30, 11:32-11:34, 11:36-11:37, 11:41-11:43, 11:46-11:49, 11:52Q, 11:54-11:56, 11:58, 11:60- 11:70, 11:72-11:76, 11:79- 11:93, 11:95-11:97, 11:99N-11:100, 11:102, 11:104-11:105, 11:107- 11:109N	1									10														
*11:02:01-11:02:03, 11:14, 11:16-11:19, 11:40, 11:45, 11:51, 11:57, 11:71, 11:77- 11:78N, 11:101, 11:106, 11:110-11:111										10														
*11:08, 11:44	1																							22
*11:10	1	2								10														
*11:25	1																							
*11:27, 11:39	1									10							18							
*11:98					5					10														
*11:103	1									10				14										
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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 101.418-12u/04– without *Taq* pol., IFU-02 Rev. No. 03

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Lot No.: **36N**

Lot-specific information

110	100	185	200	80	145	220	175	150	165	140	195	285	145	180	195	200	130	Length of spec.
240	185	235	230	250	245													PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.
																		*03:01:09, 03:01:23, 03:08, 03:32, 03:36N, 03:41, 03:57, 03:89, 03:107-03:108, 03:111, 29:01:01:01-29:02:01:02, 29:02:03-29:02:09, 29:04, 29:06-29:21, 29:23-29:27, 29:29-29:31, 30:26, 31:03- 31:04, 31:06, 32:04, 32:30, 32:32
																		*03:04:01
																		*03:10, 11:04
																		*03:17
																		*03:24
																		*03:95
																		*03:97, 03:122, 03:135, 11:94
																		*11:01:01-11:01:34, 11:03, 11:05-11:07, 11:11- 11:13, 11:15:01-11:15:02, 11:20-11:21N, 11:26, 11:29-11:30, 11:32-11:34, 11:36-11:37, 11:41-11:43, 11:46-11:49, 11:52Q, 11:54-11:56, 11:58, 11:60- 11:70, 11:72-11:76, 11:79- 11:93, 11:95-11:97, 11:99N-11:100, 11:102, 11:104-11:105, 11:107- 11:109N
																		*11:02:01-11:02:03, 11:14, 11:16-11:19, 11:40, 11:45, 11:51, 11:57, 11:71, 11:77- 11:78N, 11:101, 11:106, 11:110-11:111
																		*11:08, 11:44
											36							*11:10
				w														*11:25
																		*11:27, 11:39
																		*11:98
																		*11:103
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.

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Lot No.: **36N**

Lot-specific information

Length of spec.	195	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225				215		
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
*24:24, 24:67																								
*24:141																								
*25:01:01-25:01:03, 25:01:05-25:02, 25:06- 25:07, 25:10-25:11, 25:13- 25:14, 25:16, 26:01:01- 26:01:04, 26:01:07- 26:01:14, 26:01:16, 26:01:18-26:06, 26:09- 26:10, 26:12-26:13, 26:15, 26:17, 26:21, 26:23- 26:26, 26:30-26:34, 26:36- 26:39, 26:41-26:42, 26:45- 26:46, 26:50-26:53, 26:55- 26:63, 26:65-26:66, 26:68- 26:71N, 66:03, 66:05, 66:11																	17							
*25:01:04, 25:03, 25:15, 26:07:01-26:07:02, 26:19- 26:20, 26:35, 26:64, 26:72, 43:01																	17							
*25:04, 25:12N, 26:01:05- 26:01:06, 26:08, 26:27, 26:48, 26:67																								
*25:05, 26:54																	17							
*25:08, 26:11N, 26:47																	17							
*25:09, 26:01:15, 26:14, 26:28																	17							
*26:01:17																	17							
*26:16																	17							
*26:18													13				17							
*26:22																	17						24	
*26:29, 26:49																	17							
*26:40																								
*26:43:01-26:43:02									9															
*29:05										10														23
*33:18		2																						23
*33:51					5																			
*34:01:01-34:01:02, 66:01- 66:02, 66:04, 66:07- 66:08, 66:12-66:14	1																17							
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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 101.418-12u/04– without *Taq* pol., IFU-02 Rev. No. 03

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 “Instructions for Use” (IFU)

Lot No.: **36N**

Lot-specific information

				Length of spec. PCR product(s)																										
240	110	240	100	185	100	235	185	230	200	250	80	245	145	220	175	150	165	140	195	285	145	180	195	200	130	Well No.				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42							41	42	Well No.				
																												41		*24:24, 24:67
																												40		*24:141
						30	31				36																			*25:01:01-25:01:03, 25:01:05-25:02, 25:06- 25:07, 25:10-25:11, 25:13- 25:14, 25:16, 26:01:01- 26:01:04, 26:01:07- 26:01:14, 26:01:16, 26:01:18-26:06, 26:09- 26:10, 26:12-26:13, 26:15, 26:17, 26:21, 26:23- 26:26, 26:30-26:34, 26:36- 26:39, 26:41-26:42, 26:45- 26:46, 26:50-26:53, 26:55- 26:63, 26:65-26:66, 26:68- 26:71N, 66:03, 66:05, 66:11
						30	31																							*25:01:04, 25:03, 25:15, 26:07:01-26:07:02, 26:19- 26:20, 26:35, 26:64, 26:72, 43:01
						30	31				36																			*25:04, 25:12N, 26:01:05- 26:01:06, 26:08, 26:27, 26:48, 26:67
						30					36																			*25:05, 26:54
											36																			*25:08, 26:11N, 26:47
							31				36																			*25:09, 26:01:15, 26:14, 26:28
				29	30	31					36																			*26:01:17
						30	31																			41				*26:16
							31				36																			*26:18
						30	31				36																			*26:22
						30	31				36	37																		*26:29, 26:49
							31				36																			*26:40
						30	31				36																			*26:43:01-26:43:02
																														*29:05
																														*33:18
											36																			*33:51
						30	31				36																			*34:01:01-34:01:02, 66:01- 66:02, 66:04, 66:07- 66:08, 66:12-66:14
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42							41	42	Well No.				



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“Instructions for Use” (IFU)

Lot No.: **36N**

Lot-specific information

Length of spec.	195	435	195	180	140	230	145	160	150	165	160	205	210	150	145	215	175	200	325	90	165	165	185	375
PCR product(s)				225	235			240	195		200	405	240	195	205			225			215			
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
*34:02:01-34:02:02	1	2																						23
*34:03-34:04, 34:07, 34:09	1	2							?															23
*34:05	1																17							
*34:06	1								?															
*34:08	1	2							?															23
*36:01, 36:03, 36:05																						w	23	
*66:06	1								9															
*66:09	1																17							24
*66:10	1																17							
*66:15					5												17							
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-A*68 subtyping.

In addition, wells number 5, 8 to 11, 13, 14, 18, 22 and 29 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

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

⁴HLA-A*68 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.7.0, January 2012.

⁵The A*68:27 and the A*66:16 alleles give rise to identical amplification patterns with the HLA-A*68 subtyping kit. These alleles can be distinguished by e.g. the HLA-A low resolution kit and/or the HLA-A*66 subtyping kit.

⁶A*68:29 and A*68:52 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 25.

⁷The A*68:66 and 68:75 and the A*03:50 and 03:66 alleles give rise to identical amplification patterns with the HLA-A*68 subtyping kit. These alleles can be distinguished by e.g. the HLA-A low resolution kit and/or the HLA-A*03 subtyping kit.

⁸Primer mix 4: Specific PCR fragment of 180 bp in the A*68:30 allele. Specific PCR fragment of 225 bp in the A*68:03:01-68:03:02, A*68:05 and A*68:20 alleles. Specific PCR fragment of 180 and 225 bp in the A*02:06:05 allele.

Primer mix 5: Specific PCR fragment of 140 bp in the A*68:25 allele. Specific PCR fragment of 235 bp in the A*68:04 and the A*11:98, 33:51 and 66:15 alleles.

Primer mix 8: Specific PCR fragment of 160 bp in the A*68:07 allele. Specific PCR fragment of 240 bp in the A*68:46 allele.

Primer mix 9: Specific PCR fragment of 150 bp in the A*68:18N allele. Specific PCR fragment of 195 bp in the A*68:47 allele. Specific PCR fragment of 250 bp in the A*68:08:01-68:08:02 and 68:63 and the A*26:43:01-26:43:02, 34:03[?]-34:04[?], 34:06[?]-34:09[?] and 66:06 alleles.

Primer mix 11: Specific PCR fragment of 160 bp in the A*68:17 allele. Specific PCR fragment of 200 bp in the A*68:10 and A*68:14 alleles.

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 “Instructions for Use” (IFU)

Lot No.: **36N**

Lot-specific information

														Length of spec.					
														PCR product(s)					
110	100	185	200	80	145	220	175	150	165	140	195	285	145	180	195	200	130		
240	185	235	230	250	245														
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.	
											36							*34:02:01-34:02:02	
						?					36							*34:03-34:04, 34:07, 34:09	
					30	?					36							*34:05	
						?					36							*34:06	
						?												*34:08	
																		*36:01, 36:03, 36:05	
					30	31					36							*66:06	
					30	31					36							*66:09	
					30	31					36	37						*66:10	
					30	31					36							*66:15	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Well No.	

Primer mix 12: Specific PCR fragment of 205 bp in the A*68:38 allele. Specific PCR fragment of 405 bp in the A*68:11N allele.

Primer mix 13: Specific PCR fragment of 210 bp in the A*68:12 and A*68:50 alleles. Specific PCR fragment of 240 bp in the A*68:51 and 26:18 alleles.

Primer mix 14: Specific PCR fragment of 150 bp in the A*68:41 allele. Specific PCR fragment of 195 bp in the A*68:13 and the A*11:103 alleles.

Primer mix 15: Specific PCR fragment of 145 bp in the A*68:19 and in the A*02:237, 03:17 and 24:18 alleles. Specific PCR fragment of 205 bp in the A*68:14 and 68:81 and the A*02:121 and 23:47 alleles.

Primer mix 18: Specific PCR fragment of 200 bp in the A*68:26 and 68:65 and the A*01:01:01:01:01:04N, 01:06-01:29, 01:31N-01:33, 01:35-01:71, 01:73-01:78, 01:80-01:85, 01:87-01:101, 01:103-01:104, 03:18, 03:97, 03:122, 03:135, 11:27, 11:38-11:39, 11:94, 24:17, 24:41, 29:03 and 80:01-80:02 alleles. Specific PCR fragment of 225 bp in the A*68:21:01 and the A*03:04:01 alleles. Specific PCR fragment of 200 and 225 bp in the A*01:86 allele.

Primer mix 21: Specific PCR fragment of 165 bp in the A*68:28 and in the A*02:49, 24:87 and in the B*27:45 alleles. Specific PCR fragment of 215 bp in the A*68:24 allele.

Primer mix 25: Specific PCR fragment of 110 bp in the A*68:52 allele. Specific PCR fragment of 240 bp in the A*68:29 and in the A*02:243 and 24:82 alleles.

Primer mix 26: Specific PCR fragment of 100 bp in the A*68:49N allele. Specific PCR fragment of 185 bp in the A*68:33 allele.

Primer mix 27: Specific PCR fragment of 185 bp in the A*68:34 allele. Specific PCR fragment of 235 bp in the A*68:43 allele.

Primer mix 28: Specific PCR fragment of 200 bp in the A*68:35 and 68:38 alleles. Specific PCR fragment of 230 bp in the A*68:44 allele.

Primer mix 29: Specific PCR fragment of 80 bp in the A*68:42, 68:54, 68:61 and 68:63^w and the A*02:03:01-02:03:04, 02:26^w, 02:99^w, 02:117, 02:148, 02:171:02^w, 02:253, 02:258, 02:264, 02:281, 02:315, 02:323, 11:25^w and 26:01:17 alleles. Specific PCR fragment of 250 bp in the A*68:36 allele.

⁹This lot of the HLA-A*68 subtyping kit cannot distinguish the A*68:01:02, 68:01:06 and A*68:37 alleles.

'w', may be weakly amplified.

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

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Lot No.: **36N**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*68 SSP subtyping kit																			
			Prod. No.:	Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				201297501	201297502	201297503	201297504	201297505	201297506	201297507	201297508	201297509	201297510	201297511	201297512	201297513	201297514	201297515	201297516
	IHWC cell line	A*																	
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
37	9065 HHKB	*03:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-

101.418-12/04 – including *Taq* pol., IFU-01 Rev. No. 03
 101.418-12u/04– without *Taq* pol., IFU-02 Rev. No. 03

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Lot No.: **36N**

Lot-specific information

				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	201297517	201297518	201297519	201297520	201297521	201297522	201297523	201297524	201297525	201297526	201297527	201297528	201297529	201297530	201297531	201297532
IHCW cell line		A*																		
1	9001	SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*01:01		-	+	-	-	-	W	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*01:01		-	+	-	-	-	W	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*02:01	*26:03	+	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
7	9020	QBL	*26:01		+	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
8	9025	DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*26:01		+	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
10	9107	LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*29:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
12	9052	DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*29:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*80:01	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-
18	9257	32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01	*34:01	+	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
24	9035	JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*02:05		W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*24:10	*29:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*29:02	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
29	9050	MOU	*29:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
30	9021	RSH	*30:01	*68:02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*03:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
38	9099	LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*01:01	*03:01	-	+	-	-	-	W	+	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*03:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*66:01		+	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-
45	9239	SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*03:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*02:16	*03:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.418-12/04 – including *Taq* pol., IFU-01 Rev. No. 03
 101.418-12u/04– without *Taq* pol., IFU-02 Rev. No. 03

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Lot No.: **36N**

Lot-specific information

CELL LINE VALIDATION SHEET														
HLA-A*68 SSP subtyping kit														
				Prod. No.:	Well									
					33	34	35	36	37	38	39	40	41	42
					201297533	201297534	201297535	201297536	201297537	201297538	201297539	201297540	201297541	201297542
	IHWC cell line	A*												
1	9001 SA	*24:02			-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01			-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01			-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01			-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01			-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03		-	-	-	+	-	-	-	-	-	-
7	9020 QBL	*26:01			-	-	-	+	-	-	-	-	-	-
8	9025 DEU	*31:01			-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01			-	-	-	+	-	-	-	-	-	-
10	9107 LKT3	*24:02			-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02			-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01			-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01			-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01			-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02			-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02			-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01		-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01		-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01			-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01			-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17			-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01			-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01		-	-	-	+	-	-	-	-	-	-
24	9035 JBUSH	*32:01			-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01			-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05			-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01		-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02		-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02			-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02		-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*30:02			-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01			-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01			-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01			-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01			-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01		-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01			-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17			-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01		-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01		-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01			-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07			-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07		-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01			-	-	-	+	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02		-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01			-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01		-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01		-	-	-	-	-	-	-	-	-	-

101.418-12/04 – including *Taq* pol., IFU-01 Rev. No. 03
 101.418-12u/04– without *Taq* pol., IFU-02 Rev. No. 03

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Lot No.: **36N**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-A*68 SSP

Product number: 101.418-12/04 – including *Taq* pol.
 101.418-12u/04u – without *Taq* pol.

Lot number: 36N

Expiry date: 2014-September-01

Number of tests: 12 tests – Product No. 101.418-12/12u
 4 tests – Product No. 101.418-04/04u

Number of wells per test: 42

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2012-975-01	16	2012-975-16	31	2012-975-31
2	2012-975-02	17	2012-975-17	32	2012-975-32
3	2012-975-03	18	2012-975-18	33	2012-975-33
4	2012-975-04	19	2012-975-19	34	2012-975-34
5	2012-975-05	20	2012-975-20	35	2012-975-35
6	2012-975-06	21	2012-975-21	36	2012-975-36
7	2012-975-07	22	2012-975-22	37	2012-975-37
8	2012-975-08	23	2012-975-23	38	2012-975-38
9	2012-975-09	24	2012-975-24	39	2012-975-39
10	2012-975-10	25	2012-975-25	40	2012-975-40
11	2012-975-11	26	2012-975-26	41	2012-975-41
12	2012-975-12	27	2012-975-27	42	2012-975-42
13	2012-975-13	28	2012-975-28		
14	2012-975-14	29	2012-975-29		
15	2012-975-15	30	2012-975-30		

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 5, 7 to 9, 11 to 13, 15, 16, 19 to 21, 25 to 28, 32 to 35 and 37 to 42 were available. The specificities of the primers in primer solutions 5, 7 to 9, 11, 13, 15, 16, 20, 21, 25 to 27, 37 and 41 were tested by separately adding additional 5'-primers, respectively additional 3'-primers. The specificities of the 3'-primers in primer solutions 12, 19, 28, 34, 39 and 42 were tested by separately adding one additional 5'-primer, it was not possible to test the 5'-primers. In primer solutions 32, 33, 35, 38 and 40 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solution 5, 7, 8, 11, 17, 25 and 27 one of the 5'-primers was not possible to test. In primer solutions 8, 9, 14 to 16, 18, 21, 26, 27, 29 and 30 one or two of the 3'-primers were not possible to test. Additional primers in primer solutions 4, 6, 14, 29 and 30 were tested tested by separately adding either one additional 5'-primer, or one additional 3'-primer.

101.418-12/04 – including *Taq* pol., IFU-01 Rev. No. 03
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Lot No.: **36N**

Lot-specific information

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

Date of approval: 2012-April-12

Approved by:

Production Quality Control

101.418-12/04 – including *Taq* pol., IFU-01 Rev. No. 03
101.418-12u/04– without *Taq* pol., IFU-02 Rev. No. 03

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Lot No.: **36N**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-A*68
Product number: 101.418-12/12u, 04/04u
Lot number: 36N

Intended use: HLA-A*68 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
Franzengatan 5
SE-112 51 Stockholm, 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, Franzengatan 5, SE-112 51 Stockholm, Sweden.

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

Stockholm, Sweden
2012-April-12

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.418-12/04 – including *Taq* pol., IFU-01 Rev. No. 03
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Lot No.: **36N**

Lot-specific information

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

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Fax: 610-344-7989

E-mail: info.us@olerup.com

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

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