

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
“Instructions for Use” (IFU)

Lot No.: **03V**

Lot-specific Information
Olerup SSP® HLA-C*07

Product number:	101.615-24/04 – including <i>Taq</i> pol. 101.615-24u/04u – without <i>Taq</i> pol.
Lot number:	03V
Expiry date:	2016-May-01
Number of tests:	24 tests – Product No. 101.615-24/24u 4 tests – Product No. 101.615-04/04u
Number of wells per test:	76+1
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. 03V.

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP®
HLA-C*07 Lot (42S)**

The HLA-C*07 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

A well containing Negative Control primer pairs has been added.

The format of the Product Insert and Worksheet have been changed.

Three wells have been added to HLA-C*07, wells **75 to 77**.

¹As described in section Uniquely Identified Alleles.

The HLA-C*07 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP®* HLA-C*07 lot was made (Lot No. 42S).

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Lot-specific Information

As of lot series V, the Specificity Table is included in the lot-specific Product Insert, and the Interpretation Table is included in the Worksheet.

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

Well	5'-primer	3'-primer	rationale
20	Added	-	5'-primer added for the C*07:48 allele, for improved HLA-specific amplification.
39	Added	-	5'-primer added for the C*07:308 allele.
74	-	Modified	3'-primer modified for decreased tendency of primer oligomer formation.
75	New	New	New primer pair for the C*07:116 allele
76	New	New	New primer pair for the C*07:102 allele.
77	New	New	Negative Control.

Change in revision R01 compared to R00:

1. The HLA-C*07:24 and 07:218 and the C*03:125, 03:176, 05:81, 06:87, 12:45 and 16:13 alleles are not amplified by primer mix 61. This has been corrected in the Specificity and Interpretation Tables. Thus, this lot of the HLA-C*07 subtyping kit cannot distinguish the C*07:198N and the C*07:218 alleles.

Change in revision R02 compared to R01:

1. Primer mix 16 does not amplify the C*07:25 allele. This has been corrected in the Specificity and Interpretation Tables.

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Lot-specific Information

Well 77 contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP®* HLA Class I, DRB, DQB1 and DPB1 amplicons as well as amplicons generated by a control primer pair.

PCR product sizes range from 75 to 430 base pairs.
The PCR product generated by the control primer pair is 430 base pairs.

Length of PCR product	105	200	105	80	75	80
5'-primer¹	164	340	440	45	45	43
	5'-CAC ^{3'}	5'-Agg ^{3'}	5'-TTA ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}
3'-primer²	231	2nd I	507	59	58	57
	5'-TgC ^{3'}	5'-AAA ^{3'}	5'-TTg ^{3'}	5'-CTC ^{3'}	5'-ggC ^{3'}	5'-CTC ^{3'}
A*	+	+	+			
B*	+	+	+			
C*	+	+	+			
DRB1				+	+	
DRB3				+	+	
DRB5				+		
DQB1					+	
DPB1						+

¹The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

²The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon or the 2nd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

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Lot-specific Information

PRODUCT DESCRIPTION

HLA-C*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C*07:01 to HLA-C*07:315 alleles.

PLATE LAYOUT

Each test consists of 77 PCR reactions in a 96 well cut PCR plate. Wells 78 to 96 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	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	NC	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty
empty	empty	empty	empty	empty	empty	empty	empty

The 96 well cut PCR plate is marked with ‘HLA-C*07’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘03V’.

Well 77 – Negative Control (NC).

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.

INTERPRETATION

Due to the sharing of sequence motifs between HLA-C alleles, non-HLA-C*07 alleles will be amplified by primer mixes 2, 3, 6, 8, 9 to 14, 16 to 18, 20, 22, 26, 27, 30, 32, 36, 37, 40, 45, 49, 55, 57, 58, 60, 61 and 71 to 73 . In addition, a few HLA-A and HLA-B alleles will be amplified by primer mixes 2, 4, 6 to 8, 10 to 12, 14, 16, 18, 20, 22, 24, 25, 27, 32, 36, 37, 42, 45, 50, 53, 54, 56, 58, 59, 72 and 73.

For further details see Specificity Table.

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Lot-specific Information

UNIQUELY IDENTIFIED ALLELES

All the HLA-C*07 alleles, i.e. **C*07:01 to C*07:315**, recognized by the HLA Nomenclature Committee in July 2013^{1,2} will be amplified by the primers in the HLA-C*07 SSP kit³.

The HLA-C*07 kit enables separation of the confirmed HLA-C*07 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-C*07 alleles is listed below.

The HLA-C*07 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 following HLA-C*07 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*07:51, 07:314	19	C*07:118, 07:203	52
C*07:74, 07:308	39	C*07:129, 07:153	54
C*07:78, 02:235Q	40	C*07:132, 07:179	55
C*07:93, 07:207	42	C*07:147, 07:241	60
C*07:100, 07:161	49	C*07:164N, 07:212	58
C*07:104N, 07:119, 07:124	50	C*07:165, 07:180	60
C*07:117, 07:126	51	C*07:227N, 07:254	30

The HLA-C*07 subtyping kit cannot distinguish the following silent mutations: the C*07:01:01:01-07:01:04, C*07:01:06-07:01:24 and 07:01:26-07:01:34 alleles, the C*07:02:01:01-07:02:43 alleles, the C*07:04:01-07:04:08, the C*07:17:01-07:17:02, the C*07:27:01-07:27:02, the C*07:31:01-07:31:02, the C*07:38:01-07:38:02, the C*07:56:01-07:56:02, the C*07:96:01-07:96:02, the C*07:137:01-07:137:02 or the C*07:141:01-07:141:02 alleles.

¹HLA-C alleles listed on the IMGT/HLA web page 2013-July-25, release 3.13.1, www.ebi.ac.uk/imgt/hla.

²Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

³This lot of the HLA-C*07 subtyping kit cannot distinguish the C*07:198N and the C*07:218 alleles.

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Lot-specific Information

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:01:01:01	Confirmed	C*07:02:09	Unconfirmed	C*07:04:07	Unconfirmed	C*07:50	Unconfirmed
C*07:01:01:02	Unconfirmed	C*07:02:10	Confirmed	C*07:04:08	Unconfirmed	C*07:51	Confirmed
C*07:01:02	Confirmed	C*07:02:11	Confirmed	C*07:05	Confirmed	C*07:52	Unconfirmed
C*07:01:03	Unconfirmed	C*07:02:12	Unconfirmed	C*07:06	Confirmed	C*07:53	Unconfirmed
C*07:01:04	Unconfirmed	C*07:02:13	Unconfirmed	C*07:07	Confirmed	C*07:54	Confirmed
C*07:01:05	Confirmed	C*07:02:14	Unconfirmed	C*07:08	Unconfirmed	C*07:55N	Confirmed
C*07:01:06	Unconfirmed	C*07:02:15	Unconfirmed	C*07:09	Unconfirmed	C*07:56:01	Unconfirmed
C*07:01:07	Confirmed	C*07:02:16	Confirmed	C*07:10	Confirmed	C*07:56:02	Confirmed
C*07:01:08	Confirmed	C*07:02:17	Confirmed	C*07:11	Unconfirmed	C*07:57	Unconfirmed
C*07:01:09	Confirmed	C*07:02:18	Confirmed	C*07:12	Confirmed	C*07:58	Unconfirmed
C*07:01:10	Confirmed	C*07:02:19	Unconfirmed	C*07:13	Confirmed	C*07:59	Confirmed
C*07:01:11	Unconfirmed	C*07:02:20	Confirmed	C*07:14	Unconfirmed	C*07:60	Confirmed
C*07:01:12	Unconfirmed	C*07:02:21	Unconfirmed	C*07:15	Confirmed	C*07:61N	Confirmed
C*07:01:13	Unconfirmed	C*07:02:22	Unconfirmed	C*07:16	Confirmed	C*07:62	Unconfirmed
C*07:01:14	Unconfirmed	C*07:02:23	Unconfirmed	C*07:17:01	Confirmed	C*07:63	Unconfirmed
C*07:01:15	Confirmed	C*07:02:24	Confirmed	C*07:17:02	Unconfirmed	C*07:64	Unconfirmed
C*07:01:16	Unconfirmed	C*07:02:25	Unconfirmed	C*07:18	Confirmed	C*07:65	Confirmed
C*07:01:17	Unconfirmed	C*07:02:26	Unconfirmed	C*07:19	Confirmed	C*07:66	Confirmed
C*07:01:18	Confirmed	C*07:02:27	Unconfirmed	C*07:20	Confirmed	C*07:67	Confirmed
C*07:01:19	Unconfirmed	C*07:02:28	Unconfirmed	C*07:21	Unconfirmed	C*07:68	Confirmed
C*07:01:20	Unconfirmed	C*07:02:29	Unconfirmed	C*07:22	Confirmed	C*07:69	Confirmed
C*07:01:21	Unconfirmed	C*07:02:30	Unconfirmed	C*07:23	Unconfirmed	C*07:70	Confirmed
C*07:01:22	Unconfirmed	C*07:02:31	Unconfirmed	C*07:24	Unconfirmed	C*07:71	Unconfirmed
C*07:01:23	Unconfirmed	C*07:02:32	Confirmed	C*07:25	Unconfirmed	C*07:72	Confirmed
C*07:01:24	Unconfirmed	C*07:02:33	Unconfirmed	C*07:26	Confirmed	C*07:73	Confirmed
C*07:01:25	Unconfirmed	C*07:02:34	Unconfirmed	C*07:27:01	Unconfirmed	C*07:74	Unconfirmed
C*07:01:26	Unconfirmed	C*07:02:35	Unconfirmed	C*07:27:02	Confirmed	C*07:75	Confirmed
C*07:01:27	Unconfirmed	C*07:02:36	Unconfirmed	C*07:28	Confirmed	C*07:76	Confirmed
C*07:01:28	Unconfirmed	C*07:02:37	Unconfirmed	C*07:29	Unconfirmed	C*07:77	Unconfirmed
C*07:01:29	Unconfirmed	C*07:02:38	Unconfirmed	C*07:30	Unconfirmed	C*07:78	Unconfirmed
C*07:01:30	Confirmed	C*07:02:39	Unconfirmed	C*07:31:01	Confirmed	C*07:79	Confirmed
C*07:01:31	Unconfirmed	C*07:02:40	Unconfirmed	C*07:31:02	Unconfirmed	C*07:80	Confirmed
C*07:01:32	Unconfirmed	C*07:02:41	Unconfirmed	C*07:32N	Confirmed	C*07:81	Unconfirmed
C*07:01:33	Unconfirmed	C*07:02:42	Unconfirmed	C*07:33N	Confirmed	C*07:82	Unconfirmed
C*07:01:34	Unconfirmed	C*07:02:43	Unconfirmed	C*07:35	Confirmed	C*07:83	Confirmed
C*07:01:35	Unconfirmed	C*07:02:44	Unconfirmed	C*07:36	Confirmed	C*07:84	Unconfirmed
C*07:01:36	Unconfirmed	C*07:02:45	Unconfirmed	C*07:37	Unconfirmed	C*07:85	Confirmed
C*07:01:37	Unconfirmed	C*07:02:46	Unconfirmed	C*07:38:01	Unconfirmed	C*07:86	Unconfirmed
C*07:02:01:01	Confirmed	C*07:02:47	Unconfirmed	C*07:38:02	Unconfirmed	C*07:87	Unconfirmed
C*07:02:01:02	Unconfirmed	C*07:02:48	Unconfirmed	C*07:39	Confirmed	C*07:88	Confirmed
C*07:02:01:03	Confirmed	C*07:02:49	Unconfirmed	C*07:40	Confirmed	C*07:89	Confirmed
C*07:02:01:04	Unconfirmed	C*07:02:50	Unconfirmed	C*07:41	Unconfirmed	C*07:90	Confirmed
C*07:02:01:05	Unconfirmed	C*07:02:51	Unconfirmed	C*07:42	Unconfirmed	C*07:91	Confirmed
C*07:02:02	Unconfirmed	C*07:03	Unconfirmed	C*07:43	Confirmed	C*07:92	Unconfirmed
C*07:02:03	Unconfirmed	C*07:04:01	Confirmed	C*07:44	Unconfirmed	C*07:93	Confirmed
C*07:02:04	Confirmed	C*07:04:02	Unconfirmed	C*07:45	Confirmed	C*07:94	Unconfirmed
C*07:02:05	Unconfirmed	C*07:04:03	Unconfirmed	C*07:46	Confirmed	C*07:95	Confirmed
C*07:02:06	Confirmed	C*07:04:04	Unconfirmed	C*07:47	Unconfirmed	C*07:96:01	Confirmed
C*07:02:07	Confirmed	C*07:04:05	Unconfirmed	C*07:48	Confirmed	C*07:96:02	Unconfirmed
C*07:02:08	Confirmed	C*07:04:06	Confirmed	C*07:49	Confirmed	C*07:97	Confirmed

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Lot-specific Information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:98N	Unconfirmed	C*07:146	Unconfirmed	C*07:196	Confirmed	C*07:245	Unconfirmed
C*07:99	Unconfirmed	C*07:147	Confirmed	C*07:197	Unconfirmed	C*07:246	Unconfirmed
C*07:100	Confirmed	C*07:148	Confirmed	C*07:198N	Unconfirmed	C*07:247	Unconfirmed
C*07:101	Confirmed	C*07:149	Confirmed	C*07:199:01	Unconfirmed	C*07:248	Unconfirmed
C*07:102	Confirmed	C*07:150Q	Unconfirmed	C*07:199:02	Unconfirmed	C*07:249	Unconfirmed
C*07:103	Unconfirmed	C*07:151	Confirmed	C*07:200	Unconfirmed	C*07:250	Unconfirmed
C*07:104N	Confirmed	C*07:152N	Unconfirmed	C*07:201	Unconfirmed	C*07:251	Unconfirmed
C*07:105	Unconfirmed	C*07:153	Confirmed	C*07:202	Confirmed	C*07:252	Confirmed
C*07:106	Confirmed	C*07:154	Confirmed	C*07:203	Confirmed	C*07:253	Unconfirmed
C*07:107	Unconfirmed	C*07:155	Confirmed	C*07:204	Unconfirmed	C*07:254	Unconfirmed
C*07:108	Confirmed	C*07:156	Unconfirmed	C*07:205	Confirmed	C*07:255	Unconfirmed
C*07:109	Confirmed	C*07:157	Unconfirmed	C*07:206	Unconfirmed	C*07:256	Unconfirmed
C*07:110	Unconfirmed	C*07:158	Unconfirmed	C*07:207	Confirmed	C*07:257	Unconfirmed
C*07:111	Unconfirmed	C*07:159	Unconfirmed	C*07:208	Unconfirmed	C*07:258	Unconfirmed
C*07:112	Confirmed	C*07:160	Unconfirmed	C*07:209	Unconfirmed	C*07:259	Unconfirmed
C*07:113	Unconfirmed	C*07:161	Unconfirmed	C*07:210	Unconfirmed	C*07:260	Unconfirmed
C*07:114	Unconfirmed	C*07:162	Unconfirmed	C*07:211	Unconfirmed	C*07:261	Unconfirmed
C*07:115	Unconfirmed	C*07:163	Unconfirmed	C*07:212	Confirmed	C*07:262	Unconfirmed
C*07:116	Confirmed	C*07:164N	Unconfirmed	C*07:213	Unconfirmed	C*07:263	Unconfirmed
C*07:117	Confirmed	C*07:165	Confirmed	C*07:214	Unconfirmed	C*07:264N	Confirmed
C*07:118	Confirmed	C*07:166	Unconfirmed	C*07:215	Unconfirmed	C*07:265	Unconfirmed
C*07:119	Confirmed	C*07:167	Unconfirmed	C*07:216	Unconfirmed	C*07:266	Unconfirmed
C*07:120	Confirmed	C*07:168	Unconfirmed	C*07:217	Unconfirmed	C*07:267	Unconfirmed
C*07:121Q	Confirmed	C*07:169	Unconfirmed	C*07:218	Confirmed	C*07:268	Unconfirmed
C*07:122	Confirmed	C*07:170	Unconfirmed	C*07:219	Unconfirmed	C*07:269	Unconfirmed
C*07:123	Confirmed	C*07:171	Confirmed	C*07:220	Unconfirmed	C*07:270	Unconfirmed
C*07:124	Confirmed	C*07:172	Confirmed	C*07:221	Unconfirmed	C*07:271	Unconfirmed
C*07:125	Confirmed	C*07:173	Confirmed	C*07:222	Unconfirmed	C*07:272	Unconfirmed
C*07:126	Confirmed	C*07:174	Unconfirmed	C*07:223	Unconfirmed	C*07:273	Unconfirmed
C*07:127	Confirmed	C*07:175	Unconfirmed	C*07:224	Confirmed	C*07:274	Unconfirmed
C*07:128	Unconfirmed	C*07:176	Confirmed	C*07:225	Unconfirmed	C*07:275	Unconfirmed
C*07:129	Confirmed	C*07:177	Unconfirmed	C*07:226	Unconfirmed	C*07:276	Unconfirmed
C*07:130	Confirmed	C*07:178	Unconfirmed	C*07:227N	Unconfirmed	C*07:277	Unconfirmed
C*07:131	Unconfirmed	C*07:179	Confirmed	C*07:228	Unconfirmed	C*07:278	Unconfirmed
C*07:132	Confirmed	C*07:180	Confirmed	C*07:229	Unconfirmed	C*07:279	Confirmed
C*07:133	Unconfirmed	C*07:181	Unconfirmed	C*07:230	Unconfirmed	C*07:280	Unconfirmed
C*07:134	Unconfirmed	C*07:182	Unconfirmed	C*07:231	Unconfirmed	C*07:281	Unconfirmed
C*07:135	Unconfirmed	C*07:183	Unconfirmed	C*07:232	Unconfirmed	C*07:282	Unconfirmed
C*07:136	Unconfirmed	C*07:184	Confirmed	C*07:233	Unconfirmed	C*07:283	Unconfirmed
C*07:137:01	Unconfirmed	C*07:185	Unconfirmed	C*07:234	Unconfirmed	C*07:284	Unconfirmed
C*07:137:02	Confirmed	C*07:186	Confirmed	C*07:235Q	Unconfirmed	C*07:285	Confirmed
C*07:138	Unconfirmed	C*07:187	Unconfirmed	C*07:236	Unconfirmed	C*07:286	Unconfirmed
C*07:139	Unconfirmed	C*07:188	Unconfirmed	C*07:237	Unconfirmed	C*07:287	Unconfirmed
C*07:140	Confirmed	C*07:189	Unconfirmed	C*07:238	Confirmed	C*07:288	Unconfirmed
C*07:141:01	Confirmed	C*07:190	Unconfirmed	C*07:239	Unconfirmed	C*07:289	Unconfirmed
C*07:141:02	Confirmed	C*07:191N	Unconfirmed	C*07:240	Unconfirmed	C*07:290	Unconfirmed
C*07:142	Unconfirmed	C*07:192	Confirmed	C*07:241	Unconfirmed	C*07:291	Unconfirmed
C*07:143	Confirmed	C*07:193	Unconfirmed	C*07:242	Unconfirmed	C*07:292	Unconfirmed
C*07:144	Unconfirmed	C*07:194	Unconfirmed	C*07:243	Confirmed	C*07:293	Unconfirmed
C*07:145	Confirmed	C*07:195	Unconfirmed	C*07:244	Unconfirmed	C*07:294	Unconfirmed

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Lot-specific Information

Allele	Status ¹
C*07:296	Unconfirmed
C*07:297	Unconfirmed
C*07:298	Unconfirmed
C*07:299	Unconfirmed
C*07:300	Unconfirmed
C*07:301	Unconfirmed
C*07:302	Unconfirmed
C*07:303	Unconfirmed
C*07:304	Unconfirmed
C*07:305	Unconfirmed
C*07:306	Unconfirmed
C*07:307	Confirmed
C*07:308	Unconfirmed
C*07:309	Unconfirmed
C*07:310	Unconfirmed
C*07:311	Unconfirmed
C*07:312	Unconfirmed
C*07:313	Unconfirmed
C*07:314	Unconfirmed
C*07:315	Unconfirmed

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2013-July-25, release 3.13.1, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-C*07 homo- and heterozygotes is available upon request.

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Lot-specific Information
SPECIFICITY TABLE

HLA-C*07 SSP subtyping

Specificities and sizes of the PCR products of the 77 primer mixes used for HLA-C*07 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*07 alleles ³	Other amplified HLA-Class I alleles ⁴
1⁸	245 bp 425 bp	800 bp	*07:01:01:01-07:02:20, 07:02:22-07:33N, 07:35-07:40, 07:42-07:165, 07:167-07:294, 07:296-07:315 *07:01:01:01-07:02:40, 07:02:42-07:06, 07:08, 07:10-07:33N, 07:35-07:48, 07:50-07:75, 07:77-07:114, 07:116-07:209, 07:211-07:222, 07:224-07:237, 07:239-07:246, 07:248-07:294, 07:296-07:314	
2	290 bp	800 bp	*07:01:01:01-07:01:04, 07:01:06-07:01:34, 07:05-07:07, 07:09, 07:14, 07:16, 07:18, 07:20-07:22, 07:24, 07:26-07:28, 07:30-07:31:02, 07:35-07:36, 07:40, 07:43-07:44, 07:52-07:53, 07:55N, 07:58-07:60, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:109, 07:111, 07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:184, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219, 07:222-07:225, 07:227N-07:228, 07:231, 07:235Q-07:237, 07:246-07:249, 07:253-07:257, 07:263, 07:266-07:269, 07:276-07:282, 07:292-07:293, 07:296-07:301, 07:303-07:304, 07:310-07:311, 07:313, 07:315	*03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 08:72:02, 12:03:10, 15:65, B*35:01:38, B*35:08:04
3⁵	110 bp	800 bp	*07:01:01:01-07:01:24, 07:01:26-07:01:34, 07:06, 07:09, 07:18-07:22, 07:24, 07:26, 07:28, 07:30, 07:35-07:36, 07:40, 07:44, 07:52-07:53, 07:55N, 07:57-07:59, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:108, 07:110-07:113, 07:115-07:116, 07:118-07:120, 07:122,	*04:112, 06:44, 15:62, 18:05

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

			07:124, 07:128-07:129, 07:131-07:132, 07:134, 07:140-07:141:02, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219, 07:222-07:225, 07:227N-07:228, 07:230-07:231, 07:235Q-07:237, 07:246-07:250, 07:253-07:257, 07:263, 07:266-07:269, 07:276-07:282, 07:293, 07:296-07:301, 07:303-07:304, 07:310- 07:311, 07:313	
4	185 bp	1070 bp	*07:02:01:01-07:02:43, 07:10, 07:13, 07:15, 07:19, 07:23, 07:25, 07:29, 07:32N-07:33N, 07:37-07:39, 07:42, 07:46-07:51, 07:54, 07:56:01-07:56:02, 07:61N-07:62, 07:64, 07:66-07:68, 07:72, 07:74-07:76, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:100, 07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125-07:127, 07:130, 07:133, 07:135-07:138, 07:143-07:147, 07:149, 07:152N, 07:154-07:155, 07:157- 07:161, 07:167-07:169, 07:172, 07:174-07:175, 07:178, 07:183, 07:185-07:187, 07:192-07:195, 07:198N, 07:202, 07:208-07:209, 07:211, 07:213, 07:216-07:218, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:238-07:241, 07:243- 07:245, 07:251-07:252, 07:259-07:262, 07:264N-07:265, 07:270-07:271, 07:273-07:275, 07:283-07:291, 07:302, 07:305-07:306, 07:308-07:309, 07:312, 07:314	B*40:60, B*40:245
5⁵	70 bp 145 bp 245 bp	800 bp	*07:53, 07:216 *07:57 *07:03	
6⁵	100 bp	1070 bp	*07:04:01-07:04:08, 07:11-07:12, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01-07:199:02, 07:272, 07:302	*05:62, B*44:148
7	190 bp	1070 bp	*07:05	B*27:36, B*48:21, B*48:26
8	285 bp 505 bp	1070 bp	*07:45 *07:06	*02:57, 04:40, B*38:23, B*39:73
9⁶	215 bp 425 bp	800 bp	*07:33N *07:07, 07:09, 07:49, 07:76, 07:210, 07:238, 07:247, 07:315	*06:17, 18:01-18:07N
10	185 bp	1070 bp	*07:08, 07:108	*04:58, B*40:100

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

Lot No.	Size	Allele	Sequence	Sequence
11	275 bp 300 bp	800 bp	*07:24, 07:218 *07:10, 07:43, 07:112, 07:184, 07:196,	*03:04:19, 03:113, B*35:01:38, B*35:08:04, B*37:04:02
12	130 bp	1070 bp	*07:12, 07:41	*04:120, 05:01:01:01- 05:01:26, 05:03-05:08, 05:10-05:16, 05:18:01- 05:22:02, 05:24-05:48N, 05:50-05:51Q, 05:53- 05:61, 05:63-05:94, 08:01:01-08:06, 08:08- 08:14, 08:16:01-08:46, 08:48-08:50, 08:52N- 08:63, 08:65-08:71, 08:73-08:75, 08:77-08:78, A*29:10, B*14:32, B*18:83, B*44:148
13 ^{5,7}	90 bp	1070 bp	*07:11, 07:56:01-07:56:02, 07:60, 07:79, 07:109	*03:69, 04:27, 04:52, 06:53:01-06:53:02, 12:58
14	240 bp	800 bp	*07:13, 07:28, 07:289	*04:01:43, 05:01:17, 05:09:02, 05:17, 08:15:02, 08:72:02, B*37:04:02
15 ⁵	80 bp 290 bp 460 bp	1070 bp	*07:50 *07:14 *07:89	
16 ⁸	535 bp	1070 bp	*07:02:01:01-07:02:43, 07:04:01-07:05, 07:08, 07:10-07:11, 07:13-07:15, 07:23, 07:27:01-07:27:02, 07:29, 07:31:01-07:33N, 07:37-07:39, 07:42- 07:43, 07:45-07:51, 07:54, 07:56:01- 07:56:02, 07:61N-07:64, 07:66-07:68, 07:72, 07:74-07:76, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125- 07:127, 07:130, 07:133, 07:135- 07:139, 07:142-07:147, 07:149, 07:152N, 07:154-07:155, 07:157- 07:161, 07:167-07:169, 07:172, 07:174-07:175, 07:177-07:178, 07:181, 07:183-07:187, 07:192-07:195, 07:198N-07:199:02, 07:202, 07:208- 07:209, 07:211, 07:213, 07:216- 07:218, 07:220-07:221, 07:226, 07:229, 07:232-07:234, 07:238-07:241, 07:243-07:245, 07:251-07:252, 07:258- 07:262, 07:264N-07:265, 07:270- 07:275, 07:283-07:291, 07:294, 07:302, 07:305-07:306, 07:308-07:309, 07:312, 07:314-07:315	*01:60, 03:14, 03:162, 04:58, 05:23, 05:62, 08:07, 08:47, 12:14:01- 12:14:02, 14:17, 17:01:01:01-17:19, B*46:06
17 ⁷	130 bp	1070 bp	*07:04:01-07:04:08, 07:11, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01-07:199:02, 07:260, 07:272, 07:302	*05:23, 05:62, 08:07, 08:47

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

18⁵	120 bp 230 bp	800 bp	*07:52, 07:243 *07:15	*05:03 B*07:77, B*07:193, B*40:60, B*40:245
19⁶	220 bp 465 bp	800 bp	*07:26, 07:92, 07:96:01-07:96:02, 07:314 *07:07, 07:16, 07:51, 07:177, 07:181	
20⁷	145 bp 170 bp 195 bp	1070 bp	*07:03, 07:17:01-07:17:02, 07:140- 07:141:02, 07:304, 07:307 *07:44, 07:48 *07:81, 07:168,	*03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 08:72:02, 12:03:10, A*30:01:03, A*33:03:09, B*35:01:38, B*35:08:04, B*37:04:02 B*35:01:38, B*35:08:04, B*37:04:02
21⁵	100 bp 225 bp	800 bp	*07:54 *07:06, 07:18-07:19	
22	205 bp 250 bp	800 bp	*07:84 *07:20, 07:96:01-07:96:02, 07:127, 07:263	*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03:01-04:03:02, 04:06, 04:16, 04:80, 04:147, 06:70, 15:25, 15:62, A*01:110, A*11:135
23⁷	155 bp 185 bp	1070 bp	*07:23 *07:21	
24⁷	135 bp	1070 bp	*07:25	A*24:02:62, A*68:01:12
25⁵	105 bp 150 bp	1070 bp	*07:46	B*56:08^w, B*56:14
26⁵	100 bp 250 bp 300 bp	1070 bp	*07:32N *07:55N *07:31:01-07:31:02, 07:177	*06:02:23, 12:03:10
27⁵	125 bp	1070 bp	*07:37, 07:69, 07:176, 07:307	*04:01:43, 05:01:17, 05:09:02, 08:15:02, B*35:08:04
28	175 bp 260 bp	800 bp	*07:44 *07:35, 07:47	
29	255 bp	1070 bp	*07:36, 07:42	
30^{5,7}	60 bp 260 bp	1070 bp	*07:75, 07:254 *07:227N	*04:66
31	415 bp	1070 bp	*07:39-07:40, 07:177, 07:210 ^w , 07:238 ^w	
32⁹	245 bp 285 bp	1070 bp	*07:07, 07:09, 07:49, 07:76, 07:210, 07:238, 07:247, 07:315 *07:60, 07:79	*02:14, 04:42, 05:43, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:27, 06:04- 06:10, 06:12-06:51, 06:53:01-06:75, 06:78- 06:102, 15:23, 15:63, 18:01-18:07N, B*08:17, B*08:47 *03:39, 03:67, B*08:39

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

33	205 bp 230 bp	1070 bp	*07:66 *07:82	
34⁵	105 bp 270 bp	1070 bp	*07:67 *07:70	
35⁶	320 bp 360 bp	1070 bp	*07:72 *07:71	
36⁶	185 bp 265 bp	800 bp	*07:107, 07:224	*06:22, 16:31, B*15:193
37⁷	245 bp 275 bp	1070 bp	*07:63, 07:121Q *07:38:01-07:38:02, 07:68, 07:260, 07:302	*08:38, B*07:77, B*07:193, B*40:60, B*40:245
38⁶	135 bp 195 bp	1070 bp	*07:58 *07:65	
39⁵	100 bp 195 bp 255 bp	800 bp	*07:74 *07:308 *07:59	
40^{5,7}	120 bp 205 bp 440 bp	1070 bp	*07:235Q *07:62 *07:07, 07:09, 07:76, 07:78, 07:315	*06:17, 18:01-18:07N
41	140 bp 255 bp	1070 bp	*07:91 *07:88	
42⁵	100 bp 205 bp 250 bp	1070 bp	*07:15, 07:207 *07:77, 07:93 *07:123, 07:173, 07:294	
43^{5,6}	105 bp 140 bp 175 bp	800 bp	*07:94, 07:183 *07:99 *07:80	*B*35:01:38, B*35:08:04
44^{6,7}	165 bp 195 bp	1070 bp	*07:98N *07:65, 07:77	
45⁷	240 bp 475 bp	1070 bp	*07:245 *07:95	*04:34, 04:122, B*35:178, B*73:01-73:02
46	200 bp 315 bp 350 bp 420 bp	1070 bp	*07:83 *07:202 *07:90 *07:152N	
47	200 bp 420 bp 455 bp	1070 bp	*07:86 *07:152N *07:97	
48⁷	155 bp 220 bp 400 bp	1070 bp	*07:122 *07:87 *07:85	
49	155 bp 220 bp	800 bp	*07:101, 07:148, 07:161 *07:100	04:129, 05:42, 05:46, 06:67, 08:05, 08:21, 17:05
50⁵	105 bp 170 bp 425 bp	1070 bp	*07:104N *07:119	*B*15:272N *B*07:87, B*27:55
51⁵	65 bp 235 bp 285 bp	1070 bp	*07:126 *07:121Q *07:117	
52⁵	65 bp 205 bp	1070 bp	*07:203 *07:118	

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

	280 bp		*07:106	
53⁵	110 bp 155 bp	1070 bp	*07:140, 07:151, 07:154 *07:122	B*37:04:02
54⁵	120 bp 235 bp 340 bp 370 bp	1070 bp	*07:153 *07:64 *07:125 *07:129	*B*51:142
55	150 bp 210 bp 290 bp	1070 bp	*07:179 *07:252 *07:132	*06:07
56	210 bp 255 bp	1070 bp	*07:150Q *07:123, 07:143, 07:173, 07:294	B*35:08:04 B*35:01:38, B*35:08:04
57⁵	70 bp 175 bp	800 bp	*07:01:25 *07:130	05:01:17, 05:09:02, 05:17, 08:15:02
58⁵	80 bp	1070 bp	*07:137:01-07:137:02 *07:186, 07:212, 07:265 *07:164N	*03:162, B*38:43
59⁶	450 bp 200 bp	1070 bp	*07:81, 07:145, 07:168, 07:191N	B*35:01:38, B*35:08:04, B*37:04:02
60	130 bp	1070 bp	*07:165, 07:241, 07:265, 07:304, 07:307	03:04:19, 03:113, 04:01:43, 05:01:17, 05:09:02, 06:02:23, 08:15:02, 12:03:10
	305 bp 370 bp		*07:147 *07:180	
61	245 bp	1070 bp	*07:120	
62	200 bp 280 bp	1070 bp	*07:84, 07:205 *07:106	
63	275 bp 320 bp	800 bp	*07:24, 07:218 *07:198N, 07:202	
64⁷	135 bp 225 bp	1070 bp	*07:69 *07:192	
65	155 bp	1070 bp	*07:264N	
66	225 bp	1070 bp	*07:279	
67	180 bp	1070 bp	*07:285	
68	230 bp	1070 bp	*07:149	
69	185 bp	1070 bp	*07:171	
70	405 bp	1070 bp	*07:61N	
71	240 bp	1070 bp	*07:29, 07:177, 07:184, 07:248	*03:04:19, 03:113
72⁵	120 bp	1070 bp	*07:22, 07:137:01-07:138	*06:02:23, 12:03:10, A*33:03:09, A*68:01:12
73	185 bp	1070 bp	*07:107, 07:224	*06:22, 16:31, B*15:193
74	215 bp 355 bp	1070 bp	*07:33N, 07:80	
75	145 bp		*07:116	
76	280 bp		*07:102	
77¹⁰			Negative Control	

101.615-24/04 – including *Taq* pol., IFU-01
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Lot-specific Information

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-C*07 SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits, the alleles listed are specified according to amplicon length.

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 internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

³For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as 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 target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-C alleles non-HLA-C*07 alleles will be amplified by primer mixes 2, 3, 6, 8, 9 to 14, 16 to 18, 20, 22, 26, 27, 30, 32, 36, 37, 40, 45, 49, 55, 57, 58, 60, 61 and 71 to 73. In addition, HLA-A and HLA-B alleles will be amplified by primer mixes 2, 4, 6 to 8, 10 to 12, 14, 16, 18, 20, 22, 24, 25, 27, 32, 36, 37, 42, 45, 50, 53, 54, 56, 58, 59, 72 and 73.

⁵HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁶Primer mixes 9, 19, 35, 36, 38, 43, 44 and 59 have a tendency to giving rise to primer oligomer formation.

⁷Primer mixes 13, 17, 20, 23, 24, 30, 37, 40, 44, 45, 48 and 64 may have tendencies of unspecific amplifications, most pronounced in primer mix 24.

⁸Primer mixes 1 and 16 may give rise to a lower yield of HLA-specific PCR product than the other C*07 primer mixes.

⁹In primer mix 32 the positive control band may be weaker than for other HLA-C*07 primer mixes.

¹⁰Primer mix 77 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

‘w’, might be weakly amplified.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	245	290	110	185	70	100	190	285	215	185	275	130
	425				145			505	425		300	
					245							
Length of int. pos. control ¹	800	800	800	1070	800	1070	1070	1070	800	1070	800	1070
5'-primer(s) ²	47	368	270	368	47	540	363	355	47	368	355	512
	5'-Agg ^{3'}	5'-gTA ^{3'}	5'-AAC ^{3'}	5'-gTC ^{3'}	5'-Agg ^{3'}	5'-gAC ^{3'}	5'-AAT ^{3'}	5'-CCT ^{3'}	5'-Agg ^{3'}	5'-gTT ^{3'}	5'-TCA ^{3'}	5'-gTg ^{3'}
	648			368	512			992			365	
	5'-CAC ^{3'}			5'-gTC ^{3'}	5'-gTT ^{3'}			5'-TAA ^{3'}			5'-gAC ^{3'}	
											385	
											5'-ggT ^{3'}	
3'-primer(s) ³	302	618	341	512	121	601	512	601	90	512	618	601
	5'-ggC ^{3'}	5'-CT ^{3'}	5'-CgT ^{3'}	5'-CCA ^{3'}	5'-ggC ^{3'}	5'-CTT ^{3'}	5'-CCA ^{3'}	5'-CTC ^{3'}	5'-Ag ^{3'}	5'-CCA ^{3'}	5'-CT ^{3'}	5'-CTT ^{3'}
	853				539			1016	302			
	5'-CAT ^{3'}				5'-TCT ^{3'}			5'-CAC ^{3'}	5'-ggT ^{3'}			
					616							
					5'-CgT ^{3'}							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product	90	240	80	535	130	120	220	145	100	205	155	135
			290			230	465	170	225	250	185	
			460					195				
Length of int. pos. control ¹	1070	800	1070	1070	1070	800	800	1070	800	800	1070	1070
5'-primer(s) ²	289	419	47	270	512	368	47	463	368	134	199	524
	5'-Agg ^{3'}	5'-gTT ^{3'}	5'-Agg ^{3'}	5'-AAg ^{3'}	5'-gTT ^{3'}	5'-gTC ^{3'}	5'-Agg ^{3'}	5'-TgA ^{3'}	5'-gTC ^{3'}	5'-CCA ^{3'}	5'-gTT ^{3'}	5'-CCA ^{3'}
	1049		369			3 rd I		486	5 th I	176	504	
	5'-g ^{3'}		5'-TAC ^{3'}			5'-Cgg ^{3'}		5'-TAC ^{3'}	5'-gTC ^{3'}	5'-gCC ^{3'}	5'-CAC ^{3'}	
			1049					490				
			5'-C ^{3'}					5'-CgA ^{3'}				
								512				
								5'-gTg ^{3'}				
3'-primer(s) ³	343	618	337	512	601	445	97	618	427	341	341	618
	5'-T ^{3'}	5'-CT ^{3'}	5'-CTT ^{3'}	5'-CCA ^{3'}	5'-CTT ^{3'}	5'-ggA ^{3'}	5'-gTA ^{3'}	5'-CT ^{3'}	5'-gTg ^{3'}	5'-CgT ^{3'}	5'-CgT ^{3'}	5'-CT ^{3'}
	343		616			559	341		1043		618	
	5'-g ^{3'}		5'-TgT ^{3'}			5'-CTC ^{3'}	5'-Cgg ^{3'}		5'-CAA ^{3'}		5'-CT ^{3'}	
	1087		1087			668						
	5'-AgC ^{3'}		5'-AgT ^{3'}			5'-TgA ^{3'}						
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **03V**

Lot-specific Information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product	105	100	125	175	255	60	415	245	205	105	320	185
		300		260		260		285	230	270	360	265
Length of int. pos. control ¹	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	800
5'-primer(s) ²	206	361	193	390	122	124	47	97	431	388	47	47
	5'-AgA 3'	5'-AgT 3'	5'-CCA 3'	5'-gAA 3'	5'-CCA 3'	5'-gCT 3'	5'-Agg 3'	5'-TCg 3'	5'-CgT 3'	5'-CCA 3'	5'-Agg 3'	5'-Agg 3'
	419	411	539	410	410	322			688	554		419
	5'-gTC 3'	5'-TAg 3'	5'-gCg 3'	5'-gTg 3'	5'-gTT 3'	5'-gCC 3'			5'-CCA 3'	5'-ggT 3'		5'-gTC 3'
		560		486								
		5'-CAC 3'		5'-TAC 3'								
3'-primer(s) ³	270	618	289	618	341	341	289	302	618	618	197	142
	5'-TAC 3'	5'-CT 3'	5'-AgC 3'	5'-CT 3'	5'-CgT 3'	5'-CgT 3'	5'-AgT 3'	5'-ggT 3'	5'-CT 3'	5'-CT 3'	5'-gAT 3'	5'-TgC 3'
	527		618		618			341	853		235	565
	5'-CCC 3'		5'-CT 3'		5'-CT 3'			5'-Tgg 3'	5'-CAT 3'		5'-CTg 3'	5'-CAT 3'
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec. PCR product	245	135	100	120	140	100	105	165	240	200	200	155
	275	195	195	205	255	205	140	195	475	315	420	220
			255	440		250	175			350	455	400
										420		
Length of int. pos. control ¹	1070	1070	800	1070	1070	1070	800	1070	1070	1070	1070	1070
5'-primer(s) ²	368	464	125	47	125	409	97	463	341	47	47	47
	5'-gTC 3'	5'-gCT 3'	5'-CgT 3'	5'-Agg 3'	5'-CgA 3'	5'-ggC 3'	5'-TCg 3'	5'-TgT 3'	5'-ggA 3'	5'-Agg 3'	5'-Agg 3'	5'-Agg 3'
	388	524	697	486	520	445	512	464	652	458	457	439
	5'-CCT 3'	5'-CCC 3'	5'-TCg 3'	5'-ACC 3'	5'-CgA 3'	5'-TCA 3'	5'-gTT 3'	5'-gCT 3'	5'-CCA 3'	5'-ggg 3'	5'-AgC 3'	5'-ATC 3'
			794			463		493				503
			5'-CTC 3'			5'-TgT 3'		5'-CTT 3'				5'-CCg 3'
						560						
						5'-CgA 3'						
3'-primer(s) ³	563	618	341	79	341	618	233	618	527	190	295	275
	5'-CgA 3'	5'-CT 3'	5'-CgT 3'	5'-gTA 3'	5'-CgT 3'	5'-CT 3'	5'-CCC 3'	5'-CT 3'	5'-CCA 3'	5'-ggT 3'	5'-TCA 3'	5'-gCC 3'
	601		853	312	618		578		853	226	330	618
	5'-CTT 3'		5'-CAT 3'	5'-AgT 3'	5'-CT 3'		5'-TgT 3'		5'-CAT 3'	5'-CAA 3'	5'-TgT 3'	5'-CT 3'
	603			317			613			295	618	
	5'-TTg 3'			5'-CgA 3'			5'-gCC 3'			5'-TCA 3'	5'-CT 3'	
				563						618		
				5'-Cgg 3'						5'-CT 3'		
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	155	105	65	65	110	120	150	210	70	80	200	130
PCR product	220	170	235	205	155	235	210	255	175	450		305
		425	285	280		340	290					370
						370						
Length of int. pos. control ¹	800	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	1070
5'-primer(s) ²	176	47	368	179	503	47	91	397	270	47	454	47
	5'-gCA 3'	5'-Agg 3'	5'-gTC 3'	5'-gTC 3'	5'-CCg 3'	5'-Agg 3'	5'-ggg 3'	5'-gCg 3'	5'-AAT 3'	5'-Agg 3'	5'-ACT 3'	5'-Agg 3'
	440	361		317	540	648	173	409	485	512	463	527
	5'-TTT 3'	5'-AgA 3'		5'-gCA 3'	5'-gAC 3'	5'-CAC 3'	5'-Cgg 3'	5'-ggC 3'	5'-CAA 3'	5'-gTT 3'	5'-TgA 3'	5'-TgA 3'
				458	553		232	450			464	
				5'-ggT 3'	5'-TgC 3'		5'-AgA 3'	5'-CTg 3'			5'-gCA 3'	
3'-primer(s) ³	289	299	394	341	618	112	341	618	299	327	618	180
	5'-AgC 3'	5'-TCT 3'	5'-gCT 3'	5'-CgT 3'	5'-CT 3'	5'-CCA 3'	5'-CgT 3'	5'-CT 3'	5'-TCA 3'	5'-TTT 3'	5'-CT 3'	5'-TCC 3'
	289	426	563	3 rd I		218			618	544		246
	5'-AgC 3'	5'-TCC 3'	5'-CgA 3'	5'-CTC 3'		5'-gCT 3'			5'-CT 3'	5'-ggT 3'		5'-TAA 3'
	618	488	614			244				559		618
	5'-CT 3'	5'-CCA 3'	5'-CAg 3'			5'-CTg 3'				5'-CAg 3'		5'-CT 3'
						727						
						5'-CCA 3'						
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	70	200	275	135	155	225	180	230	185	405	240	120
PCR product	245	280	320	225								
	405											
Length of int. pos. control ¹	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) ²	270	176	47	193	419	419	368	368	368	47	419	538
	5'-AAg 3'	5'-gCC 3'	5'-Agg 3'	5'-CCA 3'	5'-gTC 3'	5'-gTC 3'	5'-gTC 3'	5'-gTC 3'	5'-gTC 3'	5'-Agg 3'	5'-gTA 3'	5'-AgT 3'
	355	185	385	368								544
	5'-CCC 3'	5'-CAA 3'	5'-ggT 3'	5'-gTC 3'								5'-gAA 3'
		458										
		5'-ggT 3'										
3'-primer(s) ³	385	341	190	289	535	604	505	557	512	280	618	618
	5'-ggA 3'	5'-CgT 3'	5'-ggT 3'	5'-AgC 3'	5'-CTA 3'	5'-CgC 3'	5'-gCT 3'	5'-TgT 3'	5'-CAT 3'	5'-CTA 3'	5'-CT 3'	5'-CT 3'
	559	3 rd I	202	550								
	5'-Cgg 3'	5'-CTC 3'	5'-TCA 3'	5'-CAT 3'								
			618									
			5'-CT 3'									
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

Well No.	73	74	75	76
Length of spec. PCR product	185	215	145	280
		355		
Length of int. pos. control ¹	1070	1070	1070	1070
5'-primer(s) ²	419	47	512	103
	5' -gTC 3'	5' -Agg 3'	5' -gTT 3'	5' -CCT 3'
3'-primer(s) ³	565	90	614	341
	5' -CAT 3'	5' -.Ag 3'	5' -CgT 3'	5' -CgT 3'
		233		
		5' -CCC 3'		
Well No.	73	74	75	76

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

²The nucleotide position 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 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.

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit ²																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201326801	201189502	201189503	201069804	201208105	201069806	201326807	201069808	201319309	201069810	201326811	201069812	201069813	201208114	201208115	201319316
IHCW cell line ¹		C*																		
1	9001 SA	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+
2	9280 LK707	*07:01	*15:05	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	+	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
19	9038 BM16	*07:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
26	9285 WT49	*07:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+
47	9045 TUBO	*07:04	*15:02	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit²																				
				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	201069817	201208118	201319319	201326820	201069821	201069822	201208123	201319324	201069825	201069826	201208127	201189528	201189529	201208130	201200531	201069832
	IHWC cell line ¹	C*																		
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit²																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201189533	201319334	201319335	201208136	201208137	201319338	201326839	201208140	201069841	201208142	201208143	201208144	201326845	201200546	201200547	201208148
	IHWC cell line¹	C*																		
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit²																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201200549	201200550	201208151	201208152	201208153	201208154	201208155	201208156	201208157	201208158	201208159	201208160	201208161	201208162	201208163	201208164
IHWC cell line ¹		C*																		
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **03V**

Lot-specific Information

CELL LINE VALIDATION SHEET															
HLA-C*07 SSP subtyping kit²															
			Well												
			65	66	67	68	69	70	71	72	73	74	75	76	
			Prod. No.:	201319365	201319366	201319367	201319368	201319369	201319370	201319371	201319372	201319373	201326874	201326875	201326876
	IHWC cell line ¹	C*													
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-

¹The provided cell line HLA specificities are retrieved from the <http://www.ihwg.org/hla> web site. The specificity of an individual cell line may thus be subject to change.



101.615-24/04 – including *Taq* pol., IFU-01
101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 03V

Lot-specific Information

²The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 5, 10, 11, 13 to 15, 18, 19, 23 to 31, 34 to 36, 38, 39, 41 to 44 and 46 to 76 were available.

The specificities of the primers in primer solutions 5, 10, 11, 13 to 15, 18, 19, 24 to 27, 31, 36, 42 to 44, 46 to 50, 53, 54, 56 to 60, 63, 64, 71, 72 and 74 were tested by separately adding one 5'-primer, respectively one 3'-primer.

In primer solutions 35, 51, 61, 65 to 70, 73 and 75 it was only possible to test the 5'-primer, the 3'-primer were not possible to test.

In primer solutions 23, 28 to 30, 34, 38, 39, 41, 52, 55, 62 and 76 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 8, 11, 20, 22, 26, 33, 42, 44, 46 to 49, 53, 56, 57, 59 and 63 one or two 5'-primers were not possible to test, and in primer solutions 5, 9, 13, 15, 18, 21, 25, 32, 36, 37, 40, 43, 46 to 48, 50, 54, 58, 60, 63, 64 and 74 one or two 3'-primers were not possible to test.

Additional primers in primer solutions 2, 8, 20, 21, 33, 37, 40 and 45 were tested by separately adding either one 5'-primer, one or two 3'-primers.

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Lot No.: **03V**

Lot-specific Information

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