

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

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **8K8**

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:	8K8
Expiry date:	2024-06-01
Number of tests:	24 tests – Product No. 101.615-24/24u 4 tests – Product No. 101.615-04/04u
Number of wells per test:	95+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. 8K8.

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 (2H6)

- The product documentation has been updated for new alleles of IMGT 3.38.0.
- The kit resolution focuses on common and well documented (CWD) alleles¹.

The HLA-C*07 primer set, 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. 2H6**).

¹S. J. Mack, P. Cano, J. A. Hollenbach et al.
Common and well-documented HLA alleles: 2012 update to
the CWD catalogue. *Tissue Antigens*, 2013, 81, 194–203



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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
5	Exchanged	-	5'-primer exchanged for improved HLA-specific amplification.
14	Exchanged	Exchanged	Primer pair exchanged for improved HLA-specific amplification and improved yield.
40	-	-	Positive control primer pair exchanged for reduced tendency of primer oligomer formation.
59	-	-	Positive control primer pair exchanged for reduced tendency of primer oligomer formation.
77	-	Removed	3'-primer removed for improved HLA-specific amplification.

Changes in revision R01 compared to R00:

1. Primer mix 56 may have a tendency of unspecific amplification. A footnote has been added in the Product Insert and Worksheet.



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Well **96** contains Negative Control primer pairs, that will amplify the majority of the *Olerup SSP*[®] HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs.
The PCR product generated by the positive control primer pair is 200 base pairs.

Length of PCR product	105	200	105	80	75	80	85
5'-primer¹	164	340	440	45	45	43	36
	5'-CAC ^{3'}	5'-Agg ^{3'}	5'-TTA ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-TAC ^{3'}
							36
							5'-TAT ^{3'}
3'-primer²	231	2nd I	507	59	58	57	47
	5'-TgC ^{3'}	5'-AAA ^{3'}	5'-TTg ^{3'}	5'-CTC ^{3'}	5'-ggC ^{3'}	5'-CTC ^{3'}	5'-ACA ^{3'}
							48
							5'-gCA ^{3'}
							48
							5'-gCC ^{3'}
							52
							5'-TgT ^{3'}
A*	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

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*07:837 alleles.

PLATE LAYOUT

Each test consists of 96 PCR reactions in a 96 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
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	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	NC

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. '8K8'.

Wells 1 to 95 – HLA-C*07 high resolution primers.

Well 96 – 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 some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-C*07 alleles, i.e. **C*07:01 to C*07:837**, recognized by the HLA Nomenclature Committee in October 2019^{1,2} will be amplified by the primers in the HLA-C*07 SSP kit³.



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The HLA-C*07 kit enables separation of the confirmed HLA-C*07 alleles as listed in the IMGT/HLA database 3.26.0. 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 many 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*07:29:01-07:29:02, 07:347N	71	C*07:128, 07:279	66
C*07:41, 07:447	1	C*07:132, 07:179	55
C*07:52, 07:337	18	C*07:138, 07:484N	72
C*07:58, 07:713	86	C*07:147, 07:241	60
C*07:74, 07:308	39	C*07:149, 07:381	68
C*07:78:01-07:78:02, 07:235Q, 07:559	40	C*07:164N, 07:212	58
C*07:83, 07:649	85	C*07:165, 07:180	60
C*07:88, 07:474	41	C*07:186, 07:451N	58
C*07:93:02, 07:207	42	C*07:226, 07:573	86
C*07:99, 07:183	43	C*07:227N, 07:254	30
C*07:100, 07:161	49	C*07:245, 07:342	45
C*07:104N, 07:119	92	C*07:252, 07:679	55
C*07:117, 07:126	51	C*07:350N, 07:497	80
C*07:118, 07:203	52	C*07:457, 07:702N, 07:784	92
C*07:120, 07:462	61		

¹HLA-C alleles listed on the IMGT/HLA web page 2019-October-17, release 3.38.0, 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>.

³The following alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-C low resolution kit.

Alleles

C*07:292, C*12:181



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ALLELE CONFIRMATION STATUS

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



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C*07:38:01	Unconfirmed	C*07:83	Confirmed	C*07:131:01	Confirmed	C*07:177	Unconfirmed
C*07:38:02	Unconfirmed	C*07:84	Unconfirmed	C*07:131:02	Unconfirmed	C*07:178	Unconfirmed
C*07:39	Confirmed	C*07:85	Confirmed	C*07:132	Confirmed	C*07:179	Confirmed
C*07:40	Confirmed	C*07:86	Unconfirmed	C*07:133	Unconfirmed	C*07:180	Confirmed
C*07:41	Unconfirmed	C*07:87	Unconfirmed	C*07:134	Confirmed	C*07:181	Unconfirmed
C*07:42	Unconfirmed	C*07:88	Confirmed	C*07:135	Unconfirmed	C*07:182	Unconfirmed
C*07:43:01	Confirmed	C*07:89	Confirmed	C*07:136	Confirmed	C*07:183	Unconfirmed
C*07:43:02	Unconfirmed	C*07:90	Confirmed	C*07:137:01	Unconfirmed	C*07:184	Confirmed
C*07:44	Unconfirmed	C*07:91	Confirmed	C*07:137:02	Confirmed	C*07:185	Unconfirmed
C*07:45	Confirmed	C*07:92	Unconfirmed	C*07:138	Unconfirmed	C*07:186	Confirmed
C*07:46	Confirmed	C*07:93	Confirmed	C*07:139	Unconfirmed	C*07:187	Unconfirmed
C*07:47	Unconfirmed	C*07:94	Unconfirmed	C*07:140	Confirmed	C*07:188	Unconfirmed
C*07:48	Confirmed	C*07:95	Confirmed	C*07:141:01	Confirmed	C*07:189	Confirmed
C*07:49	Confirmed	C*07:96:01	Confirmed	C*07:141:02	Confirmed	C*07:190	Unconfirmed
C*07:50	Unconfirmed	C*07:96:02	Unconfirmed	C*07:142	Unconfirmed	C*07:191N	Confirmed
C*07:51	Confirmed	C*07:97	Confirmed	C*07:143	Confirmed	C*07:192	Confirmed
C*07:52	Unconfirmed	C*07:98N	Unconfirmed	C*07:144	Unconfirmed	C*07:193	Unconfirmed
C*07:53	Unconfirmed	C*07:99	Unconfirmed	C*07:145	Confirmed	C*07:194	Confirmed
C*07:54	Confirmed	C*07:100	Confirmed	C*07:146	Unconfirmed	C*07:195	Unconfirmed
C*07:55N	Confirmed	C*07:101	Confirmed	C*07:147	Confirmed	C*07:196	Confirmed
C*07:56:01	Unconfirmed	C*07:102	Confirmed	C*07:148	Confirmed	C*07:197	Unconfirmed
C*07:56:02	Confirmed	C*07:103	Unconfirmed	C*07:149	Confirmed	C*07:198N	Confirmed
C*07:57	Unconfirmed	C*07:104N	Confirmed	C*07:150Q	Unconfirmed	C*07:199:01	Unconfirmed
C*07:58	Unconfirmed	C*07:105	Unconfirmed	C*07:151	Confirmed	C*07:199:02	Confirmed
C*07:59	Confirmed	C*07:106	Confirmed	C*07:152N	Unconfirmed	C*07:200	Unconfirmed
C*07:60	Confirmed	C*07:107	Unconfirmed	C*07:153	Confirmed	C*07:201	Unconfirmed
C*07:61N	Confirmed	C*07:108:01	Confirmed	C*07:154	Confirmed	C*07:202	Confirmed
C*07:62	Unconfirmed	C*07:108:02	Confirmed	C*07:155	Confirmed	C*07:203	Confirmed
C*07:63	Unconfirmed	C*07:109	Confirmed	C*07:156	Unconfirmed	C*07:204:01	Unconfirmed
C*07:64	Unconfirmed	C*07:110	Unconfirmed	C*07:157	Unconfirmed	C*07:204:02	Unconfirmed
C*07:65	Confirmed	C*07:111	Unconfirmed	C*07:158	Unconfirmed	C*07:205	Confirmed
C*07:66	Confirmed	C*07:112	Confirmed	C*07:159	Unconfirmed	C*07:206	Unconfirmed
C*07:67	Confirmed	C*07:113	Unconfirmed	C*07:160	Unconfirmed	C*07:207	Confirmed
C*07:68	Confirmed	C*07:114	Unconfirmed	C*07:161	Unconfirmed	C*07:208	Unconfirmed
C*07:69	Confirmed	C*07:115	Unconfirmed	C*07:162	Unconfirmed	C*07:209	Unconfirmed
C*07:70	Confirmed	C*07:116	Confirmed	C*07:163	Unconfirmed	C*07:210	Unconfirmed
C*07:71	Unconfirmed	C*07:117	Confirmed	C*07:164N	Unconfirmed	C*07:211	Unconfirmed
C*07:72	Confirmed	C*07:118	Confirmed	C*07:165	Confirmed	C*07:212	Confirmed
C*07:73	Confirmed	C*07:119	Confirmed	C*07:166	Unconfirmed	C*07:213	Unconfirmed
C*07:74	Unconfirmed	C*07:120	Confirmed	C*07:167	Unconfirmed	C*07:214	Unconfirmed
C*07:75	Confirmed	C*07:121Q	Confirmed	C*07:168	Unconfirmed	C*07:215	Unconfirmed
C*07:76:01	Confirmed	C*07:122	Confirmed	C*07:169	Unconfirmed	C*07:216	Confirmed
C*07:76:02	Confirmed	C*07:123	Confirmed	C*07:170	Unconfirmed	C*07:217	Unconfirmed
C*07:77	Unconfirmed	C*07:124	Confirmed	C*07:171	Confirmed	C*07:218	Confirmed
C*07:78:01	Unconfirmed	C*07:125	Confirmed	C*07:172:01	Confirmed	C*07:219	Unconfirmed
C*07:78:02	Confirmed	C*07:126	Confirmed	C*07:172:02	Confirmed	C*07:220	Unconfirmed
C*07:79	Confirmed	C*07:127	Confirmed	C*07:173	Confirmed	C*07:221	Unconfirmed
C*07:80	Confirmed	C*07:128	Unconfirmed	C*07:174	Unconfirmed	C*07:222	Confirmed
C*07:81	Unconfirmed	C*07:129	Confirmed	C*07:175	Unconfirmed	C*07:223	Unconfirmed
C*07:82	Unconfirmed	C*07:130	Confirmed	C*07:176	Confirmed	C*07:224	Confirmed



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Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:225	Unconfirmed	C*07:270	Unconfirmed	C*07:319	Unconfirmed	C*07:367	Unconfirmed
C*07:226	Confirmed	C*07:271	Unconfirmed	C*07:320	Unconfirmed	C*07:368:01	Unconfirmed
C*07:227N	Unconfirmed	C*07:272	Unconfirmed	C*07:321	Unconfirmed	C*07:368:02	Unconfirmed
C*07:228	Unconfirmed	C*07:273	Unconfirmed	C*07:322	Confirmed	C*07:369	Unconfirmed
C*07:229	Confirmed	C*07:274	Unconfirmed	C*07:323	Unconfirmed	C*07:370	Unconfirmed
C*07:230	Unconfirmed	C*07:275	Unconfirmed	C*07:324	Unconfirmed	C*07:371	Confirmed
C*07:231	Confirmed	C*07:276	Confirmed	C*07:325	Unconfirmed	C*07:372	Unconfirmed
C*07:232	Confirmed	C*07:277	Unconfirmed	C*07:326	Confirmed	C*07:373	Unconfirmed
C*07:233	Unconfirmed	C*07:278	Unconfirmed	C*07:327	Unconfirmed	C*07:374	Confirmed
C*07:234	Confirmed	C*07:279	Confirmed	C*07:328	Unconfirmed	C*07:375	Unconfirmed
C*07:235Q	Unconfirmed	C*07:280	Unconfirmed	C*07:329N	Unconfirmed	C*07:376	Unconfirmed
C*07:236	Unconfirmed	C*07:281	Unconfirmed	C*07:330:01	Unconfirmed	C*07:377	Unconfirmed
C*07:237	Unconfirmed	C*07:282	Unconfirmed	C*07:330:02	Unconfirmed	C*07:378	Unconfirmed
C*07:238	Confirmed	C*07:283	Unconfirmed	C*07:331	Unconfirmed	C*07:379	Unconfirmed
C*07:239	Unconfirmed	C*07:284	Unconfirmed	C*07:332	Unconfirmed	C*07:380	Unconfirmed
C*07:240	Unconfirmed	C*07:285	Confirmed	C*07:333	Unconfirmed	C*07:381	Confirmed
C*07:241	Confirmed	C*07:286	Unconfirmed	C*07:334	Unconfirmed	C*07:382	Unconfirmed
C*07:242	Confirmed	C*07:287	Unconfirmed	C*07:335	Unconfirmed	C*07:383	Unconfirmed
C*07:243	Confirmed	C*07:288	Confirmed	C*07:336	Unconfirmed	C*07:384	Unconfirmed
C*07:244	Unconfirmed	C*07:289	Unconfirmed	C*07:337	Unconfirmed	C*07:385	Unconfirmed
C*07:245	Unconfirmed	C*07:290	Unconfirmed	C*07:338	Unconfirmed	C*07:386	Confirmed
C*07:246:01	Unconfirmed	C*07:291	Unconfirmed	C*07:339	Confirmed	C*07:387	Unconfirmed
C*07:246:02	Unconfirmed	C*07:292	Unconfirmed	C*07:340	Confirmed	C*07:388	Unconfirmed
C*07:247	Unconfirmed	C*07:293	Confirmed	C*07:341:01	Unconfirmed	C*07:389	Unconfirmed
C*07:248	Confirmed	C*07:294	Unconfirmed	C*07:341:02	Unconfirmed	C*07:390	Unconfirmed
C*07:249	Unconfirmed	C*07:296	Unconfirmed	C*07:342	Confirmed	C*07:391	Unconfirmed
C*07:250	Confirmed	C*07:297	Unconfirmed	C*07:343	Confirmed	C*07:392	Unconfirmed
C*07:251	Unconfirmed	C*07:298	Unconfirmed	C*07:344	Unconfirmed	C*07:393N	Unconfirmed
C*07:252	Confirmed	C*07:299	Unconfirmed	C*07:345	Unconfirmed	C*07:394	Unconfirmed
C*07:253	Unconfirmed	C*07:300	Unconfirmed	C*07:346	Unconfirmed	C*07:395	Unconfirmed
C*07:254	Confirmed	C*07:301	Confirmed	C*07:347N	Unconfirmed	C*07:396	Confirmed
C*07:255	Unconfirmed	C*07:302	Unconfirmed	C*07:348	Unconfirmed	C*07:397	Confirmed
C*07:256	Confirmed	C*07:303	Unconfirmed	C*07:349	Unconfirmed	C*07:398	Unconfirmed
C*07:257:01	Unconfirmed	C*07:304	Unconfirmed	C*07:350N	Unconfirmed	C*07:399	Unconfirmed
C*07:257:02	Unconfirmed	C*07:305	Unconfirmed	C*07:351	Confirmed	C*07:400	Unconfirmed
C*07:257:03	Unconfirmed	C*07:306	Unconfirmed	C*07:352	Confirmed	C*07:401	Unconfirmed
C*07:257:04	Unconfirmed	C*07:307	Confirmed	C*07:353	Unconfirmed	C*07:402	Unconfirmed
C*07:258	Unconfirmed	C*07:308	Unconfirmed	C*07:354	Unconfirmed	C*07:403	Unconfirmed
C*07:259	Confirmed	C*07:309	Unconfirmed	C*07:355	Confirmed	C*07:404	Unconfirmed
C*07:260:01	Unconfirmed	C*07:310	Confirmed	C*07:356	Unconfirmed	C*07:405	Unconfirmed
C*07:260:02	Unconfirmed	C*07:311	Confirmed	C*07:357	Unconfirmed	C*07:406	Unconfirmed
C*07:261	Unconfirmed	C*07:312	Unconfirmed	C*07:358	Unconfirmed	C*07:407	Confirmed
C*07:262	Unconfirmed	C*07:313	Unconfirmed	C*07:359	Confirmed	C*07:408	Unconfirmed
C*07:263	Unconfirmed	C*07:314:01	Confirmed	C*07:360	Confirmed	C*07:409	Confirmed
C*07:264N	Confirmed	C*07:314:02	Unconfirmed	C*07:361	Confirmed	C*07:410	Unconfirmed
C*07:265	Unconfirmed	C*07:314:03	Confirmed	C*07:362	Unconfirmed	C*07:411	Confirmed
C*07:266	Unconfirmed	C*07:315	Unconfirmed	C*07:363	Unconfirmed	C*07:412	Confirmed
C*07:267	Unconfirmed	C*07:316	Unconfirmed	C*07:364	Unconfirmed	C*07:413	Unconfirmed
C*07:268	Unconfirmed	C*07:317	Unconfirmed	C*07:365	Unconfirmed	C*07:414	Unconfirmed
C*07:269	Unconfirmed	C*07:318	Unconfirmed	C*07:366	Unconfirmed	C*07:415	Unconfirmed



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.: **8K8**

Lot-specific Information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*07:416	Unconfirmed	C*07:455	Unconfirmed	C*07:494Q	Unconfirmed	C*07:534	Unconfirmed
C*07:417	Unconfirmed	C*07:456	Confirmed	C*07:495	Unconfirmed	C*07:535	Unconfirmed
C*07:418	Unconfirmed	C*07:457	Confirmed	C*07:496	Unconfirmed	C*07:536	Unconfirmed
C*07:419	Unconfirmed	C*07:458	Unconfirmed	C*07:497	Unconfirmed	C*07:537	Unconfirmed
C*07:420	Unconfirmed	C*07:459	Unconfirmed	C*07:498	Unconfirmed	C*07:538	Unconfirmed
C*07:421	Unconfirmed	C*07:460	Unconfirmed	C*07:499	Unconfirmed	C*07:539	Unconfirmed
C*07:422	Unconfirmed	C*07:461	Unconfirmed	C*07:500	Unconfirmed	C*07:540	Unconfirmed
C*07:423	Unconfirmed	C*07:462	Confirmed	C*07:501	Unconfirmed	C*07:541	Unconfirmed
C*07:424	Unconfirmed	C*07:463	Unconfirmed	C*07:502	Unconfirmed	C*07:542	Unconfirmed
C*07:425	Confirmed	C*07:464	Unconfirmed	C*07:503	Unconfirmed	C*07:544	Unconfirmed
C*07:426	Unconfirmed	C*07:465	Unconfirmed	C*07:504	Unconfirmed	C*07:545	Unconfirmed
C*07:427	Unconfirmed	C*07:466	Unconfirmed	C*07:505	Unconfirmed	C*07:546	Unconfirmed
C*07:428	Unconfirmed	C*07:467	Unconfirmed	C*07:506	Unconfirmed	C*07:547	Unconfirmed
C*07:429	Confirmed	C*07:468	Unconfirmed	C*07:507N	Unconfirmed	C*07:548	Unconfirmed
C*07:430	Unconfirmed	C*07:469	Unconfirmed	C*07:508	Unconfirmed	C*07:549	Unconfirmed
C*07:431	Unconfirmed	C*07:470	Unconfirmed	C*07:509	Unconfirmed	C*07:550	Unconfirmed
C*07:432	Unconfirmed	C*07:471	Unconfirmed	C*07:510	Unconfirmed	C*07:551N	Unconfirmed
C*07:433	Unconfirmed	C*07:472	Unconfirmed	C*07:511	Unconfirmed	C*07:552	Unconfirmed
C*07:434	Unconfirmed	C*07:473	Unconfirmed	C*07:512	Confirmed	C*07:553	Unconfirmed
C*07:435	Unconfirmed	C*07:474	Unconfirmed	C*07:513Q	Unconfirmed	C*07:554	Unconfirmed
C*07:436	Unconfirmed	C*07:475	Unconfirmed	C*07:514	Unconfirmed	C*07:555	Unconfirmed
C*07:437N	Unconfirmed	C*07:476N	Confirmed	C*07:515	Unconfirmed	C*07:556	Unconfirmed
C*07:438	Unconfirmed	C*07:477	Unconfirmed	C*07:516	Unconfirmed	C*07:557	Unconfirmed
C*07:439	Confirmed	C*07:478	Unconfirmed	C*07:517	Unconfirmed	C*07:558	Unconfirmed
C*07:440	Unconfirmed	C*07:479	Unconfirmed	C*07:518	Unconfirmed	C*07:559	Unconfirmed
C*07:441	Unconfirmed	C*07:480	Unconfirmed	C*07:519	Unconfirmed	C*07:560	Unconfirmed
C*07:442	Unconfirmed	C*07:481	Unconfirmed	C*07:520	Unconfirmed	C*07:561	Unconfirmed
C*07:443	Unconfirmed	C*07:482	Unconfirmed	C*07:521	Unconfirmed	C*07:562	Unconfirmed
C*07:444	Unconfirmed	C*07:483N	Confirmed	C*07:522	Unconfirmed	C*07:563	Unconfirmed
C*07:445	Confirmed	C*07:484N	Unconfirmed	C*07:523	Unconfirmed		
C*07:446	Unconfirmed	C*07:485	Confirmed	C*07:524	Confirmed		
C*07:447	Unconfirmed	C*07:486	Unconfirmed	C*07:525	Unconfirmed		
C*07:448	Unconfirmed	C*07:487	Unconfirmed	C*07:526	Unconfirmed		
C*07:449	Unconfirmed	C*07:488	Unconfirmed	C*07:527	Unconfirmed		
C*07:450	Confirmed	C*07:489	Unconfirmed	C*07:528	Unconfirmed		
C*07:451N	Confirmed	C*07:490	Unconfirmed	C*07:529	Unconfirmed		
C*07:452N	Unconfirmed	C*07:491:01N	Unconfirmed	C*07:530	Unconfirmed		
C*07:453	Unconfirmed	C*07:491:02N	Unconfirmed	C*07:531	Unconfirmed		
C*07:454:01	Unconfirmed	C*07:492	Unconfirmed	C*07:532	Unconfirmed		
C*07:454:02	Unconfirmed	C*07:493	Unconfirmed	C*07:533	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2016-October-14, release 3.26.0, 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.



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.: **8K8**

Lot-specific Information
SPECIFICITY TABLE

HLA-C*07 SSP subtyping

Specificities and sizes of the PCR products of the 95+1 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
1	245 bp 425 bp	800 bp	*07:01:01:01-07:01:02:08, 07:01:04-07:01:88, 07:01:90-07:02:20, 07:02:22-07:02:104:02, 07:02:106:01-07:33N, 07:35-07:40, 07:42-07:165, 07:167-07:294, 07:296-07:347N, 07:349-07:622, 07:624-07:765, 07:767-07:798, 07:800-07:831, 07:833-07:837 *07:01:01:01-07:01:02:08, 07:01:04-07:01:40, 07:01:42-07:01:69, 07:01:71-07:02:40, 07:02:42-07:06:03, 07:08, 07:10-07:33N, 07:35-07:48, 07:50-07:75, 07:77-07:78:01, 07:79-07:114, 07:116-07:209, 07:211-07:222, 07:224-07:237, 07:239-07:246:02, 07:248-07:294, 07:296-07:314:03, 07:316-07:327, 07:329N-07:356, 07:358-07:360, 07:362-07:376, 07:378-07:402, 07:404-07:405, 07:407-07:414, 07:416-07:477, 07:478 ^w , 07:479-07:558:01:02, 07:559 ^w , 07:560-07:597, 07:599-07:655, 07:656 ^w , 07:657-07:695:01:02, 07:697Q-07:720, 07:722-07:726N, 07:728-07:740, 07:742-07:817, 07:819Q-07:837	*12:181
2	290 bp	800 bp	*07:01:01:01-07:01:02:08, 07:01:04, 07:01:06-07:01:35, 07:01:37-07:01:93, 07:05-07:06:01:08, 07:06:03-07:07, 07:09, 07:14, 07:16, 07:18:01:01-07:18:05, 07:20:01-07:22, 07:24, 07:26:01:01-07:28, 07:30-07:31:02, 07:35-07:36, 07:40, 07:43:01-07:44, 07:52-07:53, 07:55N, 07:58-07:60, 07:65, 07:69-07:71, 07:73:01-07:73:02, 07:77-07:78:02, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:109:01-07:109:02, 07:111, 07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131:01-07:132, 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, 07:246:01-07:249, 07:253-07:257:04, 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, 07:330:01-07:332, 07:337, 07:343:01:01-07:343:01:02,	*02:02:28, 03:03:29, 03:04:19, 03:113:01, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 08:72:02, 12:03:10, 12:181, 15:02:33:01-15:02:33:02, 15:65, 16:01:30, 16:02:11, A*02:01:126, A*25:27:02, B*15:17:04, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*39:136, B*58:01:17



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.: **8K8**

Lot-specific Information

07:362, 07:366, 07:369-07:371, 07:377,
07:380, 07:385-07:387, 07:404, 07:407-
07:408, 07:410-07:412, 07:417-07:419,
07:421-07:422, 07:424, 07:427, 07:430-
07:431, 07:435, 07:437N, 07:440-07:445,
07:448, 07:450, 07:453-07:455, 07:458,
07:460-07:462, 07:468-07:471, 07:475-
07:476N, 07:479, 07:481, 07:488, 07:490-
07:493, 07:498-07:499, 07:502, 07:506,
07:508, 07:512, 07:514-07:515, 07:517,
07:521:01, 07:522, 07:527-07:528, 07:531,
07:536-07:538, 07:540, 07:545-07:547,
07:549-07:550, 07:554-07:557, 07:559,
07:561, 07:570-07:571, 07:579, 07:581,
07:588-07:589, 07:591, 07:602-07:604,
07:607, 07:610, 07:613-07:615, 07:617-
07:621, 07:623-07:624, 07:633N-07:636,
07:638, 07:642-07:643, 07:647, 07:649-
07:650:02, 07:652-07:654, 07:657-07:658,
07:660, 07:662-07:663Q, 07:668-07:671,
07:673, 07:677, 07:682:01:01-07:683, 07:685,
07:687, 07:690N-07:691, 07:694, 07:696,
07:699, 07:701, 07:705-07:706, 07:708,
07:712-07:714, 07:718, 07:720-07:721,
07:725, 07:728, 07:732, 07:734-07:735,
07:739, 07:749N-07:750N, 07:756-07:757,
07:760, 07:762, 07:771, 07:774, 07:777-
07:778, 07:781-07:782, 07:787N-07:788,
07:794-07:796N, 07:800, 07:802-07:806,
07:808N, 07:811-07:816, 07:819Q-07:821N,
07:823-07:825, 07:827, 07:830, 07:832-07:834



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.: **8K8**

Lot-specific Information

3 ⁴	110 bp	800 bp	<p>*07:01:01:01-07:01:02:08, 07:01:04-07:01:24, 07:01:26-07:01:93, 07:06:01:01-07:06:03, 07:09, 07:18:01:01-07:22, 07:24, 07:26:01:01- 07:26:03, 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, 07:73:01-07:73:02, 07:77- 07:78:02, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96:02, 07:98N, 07:103-07:104N, 07:106, 07:108:01-07:108:02, 07:110-07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131:01-07:132, 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, 07:246:01-07:250, 07:253- 07:257:04, 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, 07:317, 07:330:01-07:332, 07:337, 07:343:01:01- 07:343:01:02, 07:353, 07:362, 07:366, 07:369- 07:371, 07:377, 07:380, 07:385-07:387, 07:404, 07:407-07:408, 07:410-07:412, 07:417-07:419, 07:421-07:422, 07:424, 07:427, 07:430-07:431, 07:435, 07:440-07:445, 07:448, 07:450, 07:453- 07:455, 07:458, 07:460-07:463, 07:468- 07:471, 07:475, 07:479, 07:481, 07:488, 07:490-07:493, 07:498^w, 07:499, 07:502, 07:506, 07:508, 07:512, 07:514-07:515, 07:517, 07:521:01-07:522, 07:526:01-07:528, 07:531, 07:536-07:537, 07:540, 07:545- 07:547, 07:549-07:550, 07:554-07:555, 07:557, 07:559, 07:561, 07:568, 07:570- 07:571, 07:579, 07:581, 07:587-07:589, 07:591, 07:602-07:604, 07:607, 07:610, 07:613-07:615, 07:617-07:621, 07:623-07:624, 07:627, 07:633N-07:636, 07:638-07:639, 07:642-07:643, 07:647, 07:649-07:650:02, 07:652-07:654, 07:657-07:658, 07:660, 07:662-07:663Q, 07:669-07:671, 07:673, 07:677, 07:682:01:01-07:683, 07:685, 07:687, 07:690N-07:691, 07:694, 07:696, 07:699, 07:701, 07:705-07:706, 07:708, 07:712- 07:714, 07:718, 07:720-07:721, 07:725- 07:726N, 07:728, 07:731-07:732, 07:734- 07:735, 07:739, 07:746N, 07:749N-07:750N, 07:756-07:758, 07:760, 07:762, 07:771, 07:774, 07:776N-07:778, 07:781-07:782, 07:786-07:788, 07:794-07:796N, 07:800, 07:802-07:806, 07:808N, 07:811-07:816, 07:819Q-07:821N, 07:823-07:825, 07:827, 07:832-07:834</p>	<p>*04:112, 06:02:13, 06:44, 06:252, 12:287, 15:62, 15:169, 16:64, 18:05</p>
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101.615-24/04 – including **Taq pol.**, IFU-01
101.615-24u/04u – without **Taq pol.**, IFU-02

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Lot No.: **8K8**

Lot-specific Information

4	185 bp	1070 bp	<p>*07:02:01:01-07:02:93, 07:02:95-07:02:97, 07:02:99-07:02:120, 07:10, 07:13, 07:15, 07:19, 07:23, 07:25, 07:29:01:01-07:29:02, 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- 07:76:02, 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, 07:125-07:127:02, 07:130, 07:133:01- 07:133:02, 07:135-07:138, 07:143-07:147, 07:149, 07:152N, 07:154-07:155, 07:157- 07:161, 07:167-07:169, 07:172:01-07:172:02, 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, 07:314:01-07:314:03, 07:316-07:322, 07:325-07:327, 07:333-07:335, 07:339-07:342, 07:344-07:352, 07:356, 07:359-07:360, 07:363, 07:367-07:368:02, 07:372-07:376, 07:379, 07:381-07:384, 07:388-07:393N, 07:397-07:402, 07:405, 07:409, 07:413-07:416, 07:423, 07:425, 07:429, 07:432-07:434, 07:436, 07:438- 07:439, 07:446, 07:449, 07:451N-07:452N, 07:456-07:457, 07:464-07:465, 07:472-07:474, 07:477-07:478, 07:482-07:486, 07:489, 07:494Q-07:497, 07:500, 07:503-07:505, 07:507N, 07:509-07:511, 07:513Q, 07:516, 07:518-07:520, 07:524-07:525, 07:529-07:530, 07:532-07:533, 07:539, 07:541-07:544, 07:548, 07:551N, 07:553, 07:560, 07:564- 07:567, 07:572-07:578, 07:580, 07:582Q- 07:584, 07:590, 07:592-07:598, 07:601, 07:605-07:606, 07:608, 07:611-07:612, 07:616, 07:625, 07:628-07:632Q, 07:637, 07:639-07:641, 07:644-07:646, 07:648, 07:659:01:01-07:659:01:02, 07:661, 07:665- 07:667, 07:675N-07:676, 07:678-07:679, 07:684, 07:686N, 07:688-07:689, 07:692, 07:695:01:01-07:695:01:02, 07:697Q, 07:700, 07:702N-07:704, 07:707, 07:709, 07:711, 07:715-07:717, 07:719, 07:722-07:724, 07:727, 07:729:01:01-07:730, 07:733N, 07:736:01:01-07:738, 07:740-07:741, 07:743N-07:745N, 07:747N-07:748, 07:752N- 07:755, 07:759, 07:761, 07:763-07:770N, 07:772-07:773N, 07:775, 07:779, 07:783- 07:785, 07:789-07:793, 07:798-07:799, 07:801, 07:807N, 07:809-07:810, 07:817-</p>	<p>*17:48, B*40:60, B*40:245</p>
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101.615-24/04 – including **Taq pol.**, IFU-01
101.615-24u/04u – without **Taq pol.**, IFU-02

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Lot No.: **8K8**

Lot-specific Information

5 ⁴	95 bp	800 bp	07:818, 07:822, 07:826, 07:828-07:829, 07:835-07:837 *07:53, 07:216	*16:01:35, 16:02:03, A*24:172:02, B*51:55 B*18:63, B*39:90, B*50:11
	170 bp		*07:57	
	245 bp		*07:03	
6 ⁴	100 bp	1070 bp	*07:04:01:01-07:04:19, 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, 07:323- 07:324, 07:328-07:329N, 07:336, 07:338, 07:354-07:355, 07:357, 07:361, 07:364- 07:365, 07:378, 07:394-07:395, 07:403, 07:406, 07:420, 07:426, 07:428, 07:459, 07:466-07:467, 07:480, 07:487, 07:501, 07:534-07:535, 07:562-07:563, 07:569, 07:585-07:586, 07:600:01N-07:600:02N, 07:622, 07:626, 07:651, 07:655-07:656, 07:664, 07:672N, 07:674, 07:693, 07:698, 07:742, 07:751N, 07:780, 07:797N, 07:831	*05:62, 05:146, 05:163, 08:142, B*44:148
7	190 bp	1070 bp	*07:05, 07:538	B*27:36, B*48:21, B*48:26
8	285 bp	1070 bp	*07:45, 07:589, 07:611	*01:158, 02:57, 04:40, 04:242, 06:123, A*02:84, B*15:554, B*38:23, B*39:73
	505 bp		*07:06:01:01-07:06:03, 07:330:02, 07:343:01:01-07:343:01:02, 07:613, 07:620, 07:706, 07:721, 07:735, 07:739, 07:760, 07:776N, 07:803, 07:827	
9	215 bp	800 bp	*07:33N	*04:397, 06:17, 18:01:01:01-18:14
	425 bp		*07:07, 07:09, 07:49, 07:76:01-07:76:02, 07:210, 07:238, 07:247, 07:315, 07:328, 07:403, 07:406, 07:598	
10	185 bp	1070 bp	*07:08, 07:108:01-07:108:02	*04:58, 04:160, 04:368, B*40:100
11	285 bp	800 bp	*07:24, 07:112, 07:218, 07:396	*03:03:29, 03:04:19, 03:113:01, 15:02:33:01- 15:02:33:02, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*37:04:02, B*57:01:18, B*57:03:04, B*58:01:17
	305 bp		*07:10, 07:43:01-07:43:02, 07:184, 07:196, 07:367, 07:568	
12	130 bp	1070 bp	*07:12, 07:41, 07:447	*03:251, 03:314, 04:120, 05:01:01:01-05:01:26, 05:01:28-05:01:50, 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, 05:96-05:109, 05:111- 05:124, 05:126-05:132, 05:135, 05:137-05:142, 05:144-05:150, 05:152-



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				05:200, 05:202Q-05:205, 05:207-05:227, 06:129, 08:01:01:01-08:06, 08:08:01-08:14, 08:16:01-08:46, 08:48-08:50, 08:52N-08:63, 08:65-08:71, 08:73-08:75, 08:77-08:83, 08:85-08:103, 08:105-08:123, 08:125-08:156, 08:158-08:159, 08:161N-08:168, 08:170-08:187, 08:189, 08:191-08:203, 08:205-08:206, 15:130, A*29:10:01-29:10:02, B*14:32, B*15:337, B*18:83, B*44:148, B*58:76
13^{4,6}	85 bp	1070 bp	*07:11, 07:56:01-07:56:02, 07:60, 07:79, 07:109:01-07:109:02, 07:682:01:01-07:682:02, 07:736:01:01-07:736:01:02, 07:739	*03:69, 03:274, 03:461, 04:27, 04:52, 04:405, 06:53:01-06:53:02, 12:58, 12:252, 17:26, A*24:443
14^{6,7}	215 bp	1070 bp	*07:02:01:01-07:02:41, 07:02:42 ^w , 07:02:43-07:05, 07:08, 07:10-07:15, 07:17:01:01-07:17:04, 07:23, 07:25, 07:27:01-07:27:02, 07:29:01:01-07:29:02, 07:31:01-07:32N, 07:37-07:39, 07:41-07:43:02, 07:45-07:51, 07:54, 07:56:01-07:56:02, 07:62-07:63, 07:66-07:68, 07:72, 07:74-07:76:02, 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, 07:125-07:127:02, 07:130, 07:133:01-07:133:02, 07:135-07:138, 07:142-07:147, 07:149, 07:152N, 07:154-07:155, 07:157-07:161, 07:167-07:169, 07:171-07:172:02, 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, 07:238-07:245, 07:251-07:252, 07:258-07:262, 07:264N-07:265, 07:270-07:275, 07:283-07:290, 07:291 ^w , 07:294, 07:302, 07:305-07:309, 07:312, 07:315-07:316, 07:318-07:321, 07:323-07:329N, 07:333-07:334, 07:335 ^w , 07:336, 07:338-07:342, 07:344-07:350N, 07:352, 07:354-07:361, 07:363-07:365, 07:367-07:368:02, 07:372-07:376, 07:378-07:379, 07:381-07:384, 07:388-07:390, 07:392-07:401, 07:403, 07:405-07:406, 07:409, 07:413-07:416, 07:420, 07:423, 07:425-07:426, 07:428-07:429, 07:432-07:434, 07:436, 07:438-07:439, 07:446-07:447, 07:451N-07:452N, 07:456-07:457, 07:459, 07:464-07:467, 07:472-07:474, 07:477-07:478, 07:480, 07:482-07:487, 07:489, 07:494Q-	*02:14:01-02:14:02, 02:107, 02:164, 03:39, 03:67, 03:344:01:01-03:344:01:02, 04:42:01-04:42:02, 04:220, 05:43, 06:02:01:01-06:02:01:43, 06:02:03-06:02:82, 06:04:01-06:43:02, 06:45-06:75, 06:78-06:131, 06:133-06:146, 06:148-06:192, 06:194-06:251, 06:253-06:292, 08:37, 12:16:01-12:16:02, 12:147, 12:195:01-12:195:03, 12:217, 16:21, 16:80, 17:20, 18:01:01:01-18:04, 18:06-18:08, 18:10-18:14



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

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			07:497, 07:500-07:501, 07:503-07:505, 07:507N, 07:509-07:511, 07:513Q, 07:516, 07:519-07:520, 07:523-07:525, 07:529-07:530, 07:532-07:535, 07:538-07:539, 07:541-07:544, 07:548, 07:551N-07:553, 07:556, 07:558:01:01-07:558:01:02, 07:560, 07:562- 07:567, 07:569, 07:572-07:577, 07:580, 07:582Q, 07:584-07:586, 07:590, 07:592- 07:601, 07:605-07:606, 07:608-07:609, 07:611-07:612, 07:616, 07:622, 07:625- 07:626, 07:628-07:632Q, 07:637, 07:640- 07:641, 07:644-07:646, 07:648, 07:651, 07:655-07:656, 07:659:01:01-07:659:01:02, 07:661, 07:664-07:667, 07:672N, 07:674- 07:676, 07:678-07:681, 07:684, 07:686N, 07:688-07:689, 07:692-07:693, 07:695:01:01- 07:695:01:02, 07:697Q-07:698, 07:700, 07:702N-07:704, 07:707, 07:709-07:711, 07:715-07:717, 07:719, 07:722, 07:727, 07:729:01:01-07:730, 07:733N, 07:736:01:01- 07:738, 07:740-07:745N, 07:747N-07:748, 07:751N-07:755, 07:759, 07:761, 07:763- 07:770N, 07:772-07:773N, 07:775, 07:779- 07:780, 07:783-07:785, 07:789-07:793, 07:797N-07:799, 07:801, 07:807N, 07:809- 07:810, 07:817-07:818, 07:822, 07:826, 07:828-07:831, 07:835-07:837		
15^{4,7}	80 bp 290 bp 460 bp	1070 bp	*07:50, 07:615, 07:735, 07:781 *07:14 *07:89	*02:175, 04:320, 16:111, 17:38, 17:49	
16⁷	240 bp	800 bp	*07:13, 07:28, 07:289, 07:536, 07:725, 07:834	*04:01:43, 05:01:17, 05:09:02, 05:17, 08:15:02, 08:72:02, 15:02:33:01- 15:02:33:02, B*35:03:15, B*37:04:02	
17⁶	130 bp	1070 bp	*07:04:01:01-07:04:19, 07:11, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01- 07:199:02, 07:260:01-07:260:02, 07:272, 07:302, 07:323-07:324, 07:328-07:329N, 07:336, 07:338, 07:354-07:355, 07:357- 07:358, 07:361, 07:364-07:365, 07:378, 07:394-07:395, 07:403, 07:406, 07:420, 07:426, 07:428, 07:459, 07:466-07:467, 07:480, 07:487, 07:501, 07:523, 07:534- 07:535, 07:552, 07:562-07:563, 07:569, 07:585-07:586, 07:600:01N-07:600:02N, 07:622, 07:626, 07:651, 07:655-07:656, 07:664, 07:672N, 07:674, 07:693, 07:698, 07:742, 07:751N, 07:780, 07:797N, 07:831		*05:23, 05:62, 05:134, 05:151, 08:07, 08:47, 08:104, 08:188
18⁴	120 bp 230 bp 265 bp	800 bp	*07:52, 07:243 *07:15, 07:337, 07:500 *07:486	*03:490, 05:03 *02:77, B*07:77, B*07:193, B*40:60, B*40:245	



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19⁵	220 bp 465 bp	800 bp	*07:26:01:01-07:26:03, 07:92, 07:96:01-07:96:02, 07:314:01-07:314:03, 07:317, 07:351, 07:578, 07:583, 07:723, 07:756, 07:821N *07:07, 07:16, 07:51, 07:177, 07:181, 07:328, 07:367, 07:598, 07:723	*18:09
20^{5,6}	145 bp 170 bp 190 bp	1070 bp	*07:03, 07:17:01:01-07:17:04, 07:140-07:141:02, 07:304, 07:307, 07:512, 07:599, 07:671, 07:812 *07:44, 07:48 *07:81, 07:168, 07:450	*02:02:28, 03:03:29, 03:04:19, 03:113:01, 04:01:43, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 08:72:02, 12:03:10, 15:02:33:01-15:02:33:02, 16:01:30, 16:02:11, A*25:27:02, A*30:01:03, A*31:01:32, A*33:03:09, B*07:02:43, B*07:06:03, B*07:33:03, B*07:139:02, B*08:01:25, B*15:17:04, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*37:04:02, B*39:09:03, B*51:01:63, B*57:01:18, B*57:03:04, B*58:01:17 B*15:17:04, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*37:04:02, B*39:09:03, B*51:01:63, B*57:01:18, B*57:03:04, B*58:01:17
21⁴	100 bp 225 bp	800 bp	*07:54 *07:06:01:01-07:06:03, 07:18:01:01-07:19, 07:28, 07:71, 07:112, 07:173, 07:330:02, 07:517, 07:607, 07:613, 07:620-07:621, 07:687, 07:706, 07:721, 07:735, 07:739, 07:760, 07:776N, 07:781, 07:783, 07:803, 07:805, 07:815, 07:819Q, 07:827, 07:830	
22	205 bp 250 bp	800 bp	*07:84 *07:20:01-07:20:02, 07:96:01-07:96:02, 07:127:01-07:127:02, 07:263, 07:390, 07:562, 07:578	*02:49, 02:75, 02:115, 03:15, 03:32, 03:45, 03:60, 03:136, 03:297, 04:03:01:01-04:03:07, 04:06:01-04:06:03, 04:16, 04:80, 04:147, 04:160, 04:171, 04:190, 04:256, 04:286, 04:294, 04:299, 04:335, 04:337, 04:351:01-04:351:02, 04:357, 04:363, 04:381, 04:383, 04:393, 04:400, 04:402, 06:70:01-06:70:02, 06:132:01-06:132:02, 14:116, 15:25, 15:62, 15:169, A*01:110, A*11:135



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

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Lot-specific Information

23 ⁶	155 bp 185 bp	1070 bp	*07:23 *07:21	
24 ⁶	135 bp	1070 bp	*07:25, 07:404	A*02:01:126, A*03:01:46, A*03:154:02, A*11:32:02, A*24:02:62, A*24:347:01, A*24:459, A*25:27:02, A*68:01:12
25 ⁴	105 bp 150 bp 235 bp	1070 bp	*07:46, 07:356 *07:30 *07:02:01:17N, 07:311	*03:342, B*56:08^w, B*56:14
26 ⁴	100 bp 250 bp 300 bp	1070 bp	*07:32N *07:55N *07:31:01-07:31:02, 07:177, 07:514	*06:02:23, 12:03:10, 16:01:30, 16:02:11
27	130 bp	1070 bp	*07:37, 07:69, 07:176, 07:307, 07:512, 07:755	*04:01:43, 04:400 ^w , 05:01:17, 05:09:02, 08:15:02, B*07:02:43, B*07:06:03, B*07:33:03, B*07:139:02, B*35:08:04 *04:198 ^w , 12:115
28	240 bp 175 bp 260 bp 290 bp	800 bp	*07:267, 07:322 *07:44 *07:35, 07:47, 07:352, 07:461 *07:396	
29	255 bp	1070 bp	*07:36, 07:42, 07:355	*04:258, A*11:350
30 ^{4,6}	60 bp 260 bp	800 bp	*07:75, 07:254 *07:227N	*04:66
31	420 bp	1070 bp	*07:39-07:40, 07:177, 07:210 ^w , 07:238 ^w , 07:244, 07:276, 07:328 ^w , 07:335, 07:480, 07:563	
32 ⁴	115 bp 155 bp 245 bp	1070 bp	*07:134 *07:189 *07:07, 07:09, 07:49, 07:76:01-07:76:02, 07:210, 07:238, 07:247, 07:315, 07:328, 07:403, 07:406, 07:598	*06:29 *02:14:01-02:14:02, 02:107, 02:164, 04:42:01- 04:42:02, 04:220, 05:43, 06:02:01:01-06:02:01:43, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:31, 06:02:33-06:02:64, 06:02:66-06:02:82, 06:04:01-06:10, 06:12- 06:51, 06:53:01-06:75, 06:78-06:121, 06:123, 06:125-06:131, 06:133- 06:146, 06:148-06:216, 06:218-06:247, 06:249- 06:251, 06:253-06:279, 06:281N-06:292, 15:23:01-15:23:02, 15:63, 15:138, 15:158, 17:20, 18:01:01:01-18:08, 18:10- 18:14, B*08:17, B*08:47 *03:39, 03:67, B*08:39
	285 bp		*07:60, 07:79	



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Lot-specific Information

33	205 bp 230 bp	1070 bp	*07:66 *07:82	
34⁵	335 bp	1070 bp	*07:70, 07:503	*06:36
35⁵	320 bp 360 bp	1070 bp	*07:72 *07:71	
36⁵	265 bp	800 bp	*07:20:01-07:20:02, 07:64, 07:73:01-07:73:02, 07:92, 07:96:01-07:96:02, 07:172:01- 07:172:02, 07:390, 07:578, 07:583, 07:723	*04:397, 18:04
37⁶	235 bp 265 bp	1070 bp	*07:121Q *07:38:01-07:38:02, 07:63, 07:68, 07:260:01- 07:260:02, 07:302	*05:111, 05:207, 08:38, B*07:77, B*07:193, B*40:60, B*40:245
38	150 bp	1070 bp	*07:65, 07:717	*04:222, B*07:189, B*39:148
39⁴	100 bp 195 bp 255 bp	800 bp	*07:74 *07:308 *07:59	
40^{4,6}	120 bp 205 bp 440 bp	800 bp	*07:235Q *07:62 *07:07, 07:09, 07:76:01-07:76:02, 07:78:01- 07:78:02, 07:315, 07:328, 07:406, 07:559, 07:598, 07:656	B*14:70Q *04:397, 06:17, 18:01:01:01-18:14
41	140 bp 170 bp 255 bp	1070 bp	*07:91, 07:474 *07:234 *07:88	A*01:311, A*25:32
42⁴	100 bp 205 bp 250 bp	1070 bp	*07:15, 07:207 *07:77, 07:93:01-07:93:02 *07:35, 07:123, 07:173, 07:294, 07:352, 07:725, 07:775	*02:02:28, B*07:02:43, B*07:06:03, B*07:33:03, B*07:139:02, B*35:15:02 *15:02:33:01-15:02:33:02, B*07:02:43, B*07:06:03, B*07:33:03, B*07:139:02, B*08:01:25, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*39:09:03, B*39:136, B*51:01:63, B*57:01:18, B*57:03:04, B*58:01:17
43^{4,5}	105 bp 150 bp 175 bp 220 bp	800 bp	*07:94, 07:183 *07:99, 07:189 *07:80, 07:339, 07:410, 07:662 *07:445	
44⁵	165 bp 195 bp 290 bp	1070 bp	*07:98N *07:65, 07:77, 07:717 *07:396	
45^{5,6}	240 bp 475 bp	1070 bp	*07:245 *07:95, 07:342, 07:599	*04:34, 04:122, 04:212, 04:265, 06:153, A*26:112, B*18:115, B*35:178, B*35:282, B*35:316, B*38:79, B*57:102, B*73:01:01-01- 73:02
46⁵	315 bp 350 bp	1070 bp	*07:202 *07:90, 07:757	



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Lot-specific Information

	420 bp		*07:152N	
47⁵	200 bp 255 bp 420 bp 455 bp	1070 bp	*07:86 *07:222, 07:375 *07:152N *07:97	
48	155 bp 220 bp 255 bp 410 bp	1070 bp	*07:122, 07:373 *07:87 *07:222, 07:375 *07:85, 07:244, 07:276, 07:480	
49⁴	70 bp 155 bp 230 bp	800 bp	*07:133:01-07:133:02, 07:330:01-07:330:02, 07:748 *07:101, 07:148, 07:161, 07:583 *07:100, 07:259, 07:316, 07:338, 07:579	*03:03:29, 03:04:19 *04:129, 05:42, 05:46, 06:67, 08:05, 08:21, 08:137, 12:127, 12:203, 17:05 *01:17, 01:21, 01:23, 01:128, 01:152, 01:157, 12:215
50	345 bp 425 bp	800 bp	*07:310 *07:124, 07:155	
51⁴	65 bp 235 bp 285 bp	1070 bp	*07:126 *07:121Q, 07:409, 07:483N *07:117	
52⁴	65 bp 205 bp 280 bp	1070 bp	*07:203, 07:426 *07:118 *07:106, 07:691	*06:194
53⁴	70 bp 110 bp 155 bp	1070 bp	*07:133:01-07:133:02, 07:330:01-07:330:02, 07:748 *07:140, 07:151, 07:154 *07:122, 07:373	*03:03:29, 03:04:19 B*08:01:25, B*37:04:02
54⁴	120 bp 200 bp 235 bp 285 bp 340 bp 370 bp 430 bp	1070 bp	*07:153, 07:324, 07:738 *07:446 *07:64, 07:374, 07:402 *07:593N *07:125, 07:356, 07:531 *07:129 *07:01:02:01-07:01:02:08, 07:01:27, 07:01:52, 07:01:80-07:01:81, 07:01:83, 07:01:93, 07:73:02, 07:89, 07:93:01, 07:453, 07:547, 07:627, 07:668, 07:806, 07:814	B*35:364, B*35:379, B*35:462, B*51:142, B*52:80 B*08:109 *04:397, 18:12 *04:397
55	160 bp 210 bp 290 bp 530 bp	1070 bp	*07:179, 07:234, 07:679 *07:252 *07:132 *07:343:01:01-07:343:01:02	*04:353, 06:07 A*11:179
56⁶	210 bp 260 bp	1070 bp	*07:150Q *07:123, 07:143, 07:173, 07:294, 07:421, 07:524, 07:725, 07:775	*15:02:33:01-15:02:33:02, B*07:02:43, B*07:06:03, B*07:33:03, B*07:139:02, B*08:01:25, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*39:09:03, B*39:136, B*51:01:63,



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Lot-specific Information

				B*57:01:18, B*57:03:04, B*58:01:17
57⁴	70 bp 175 bp	800 bp	*07:01:25 *07:130	*05:01:17, 05:09:02, 05:17, 08:15:02
	230 bp 270 bp		*07:259 *07:421, 07:524	
58⁴	80 bp	1070 bp	*07:137:01-07:137:02, 07:186, 07:212, 07:265, 07:748	*03:162, 03:220, 03:434, 05:151, B*38:43, B*44:247, B*49:29, B*51:181, B*52:74
59⁵	450 bp 200 bp	800 bp	*07:164N, 07:451N *07:81, 07:145, 07:168, 07:191N, 07:450, 07:733N	B*15:17:04, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*37:04:02, B*39:09:03, B*51:01:63, B*57:01:18, B*57:03:04, B*58:01:17
60	300 bp 130 bp	1070 bp	*07:485 *07:165, 07:241, 07:265, 07:304, 07:307, 07:512, 07:671, 07:755, 07:812, 07:815	*02:02:28, 03:03:29, 03:04:19, 03:113:01, 04:01:43, 05:01:17, 05:09:02, 06:02:23, 08:15:02, 12:03:10, 15:02:33:01-15:02:33:02, B*07:02:43, B*07:06:03, B*07:33:03, B*07:139:02, B*15:17:04, B*51:01:63
	300 bp 370 bp		*07:147, 07:485 *07:180	
61	130 bp 245 bp	1070 bp	*07:81, 07:243, 07:462 *07:120	*05:149, 16:76, B*40:304 *06:267N
62	200 bp 285 bp	1070 bp	*07:84, 07:205 *07:106, 07:267, 07:322, 07:691	A*26:101 *04:198, A*26:94
63	275 bp 320 bp	800 bp	*07:24, 07:218, 07:301, 07:425 *07:198N, 07:202	
64⁶	135 bp 230 bp	1070 bp	*07:69 *07:192, 07:272, 07:316, 07:326, 07:338, 07:409, 07:579	*04:400 ^w *01:17, 01:21, 01:23, 01:128, 01:152, 01:157, 06:18 ^w , 12:215
65⁶	150 bp 185 bp	1070 bp	*07:136, 07:264N *07:371, 07:494Q	*16:16Q, B*15:218Q, B*35:333Q
	215 bp		*07:551N, 07:632Q	
66⁶	150 bp 185 bp	800 bp	*07:136 *07:128, 07:232, 07:513Q, 07:633N	*12:42Q, B*18:153, B*35:461N, B*46:07N, B*46:51Q
67	225 bp 180 bp 215 bp 290 bp	1070 bp	*07:279 *07:285 *07:393N *07:456	



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Lot-specific Information

68⁴	75 bp 230 bp 260 bp 290 bp	1070 bp	*07:381 *07:149 *07:133:01, 07:242, 07:748 *07:456	*03:178, 03:300, 03:474
69	135 bp 185 bp	1070 bp	*07:170-07:171, 07:397, 07:412 *07:494Q	*16:16Q, B*15:218Q , B*35:333Q
70⁶	240 bp 215 bp	1070 bp	*07:02:01:17N *07:131:01-07:131:02, 07:194, 07:368:01- 07:368:02 *07:310 *07:61N	
71⁴	105 bp 120 bp 240 bp	1070 bp	*07:67 *07:347N *07:29:01:01-07:29:02, 07:177, 07:184, 07:248	*03:03:29, 03:04:19, 03:113:01, B*07:02:43 , B*07:33:03 , B*07:139:02
72⁴	280 bp 110 bp	1070 bp	*07:425 *07:22, 07:67, 07:137:01-07:138, 07:812	*02:02:28, 06:02:23, 12:03:10, A*02:01:126 , A*31:01:32 , A*33:03:09 , A*68:01:12 , B*39:09:03
	245 bp 290 bp		*07:484N *07:250, 07:558:01:01-07:558:01:02	
73	195 bp	1070 bp	*07:107, 07:224, 07:349, 07:458, 07:513Q, 07:632Q	*06:22, 12:42Q, 12:293, 16:31, B*15:193 , B*35:283 , B*46:51Q
74⁶	210 bp 355 bp	1070 bp	*07:33N, 07:293, 07:519 *07:80, 07:662	
75	140 bp 220 bp 295 bp	1070 bp	*07:116, 07:329N *07:544 *07:708	*12:211 *03:492, 03:497, 12:254, 12:280
76⁴	115 bp 280 bp	1070 bp	*07:437N *07:102	
77⁶	200 bp 240 bp 430 bp	1070 bp	*07:446 *07:533, 07:708 *07:01:02:01-07:01:02:08, 07:01:27, 07:01:52, 07:01:80-07:01:81, 07:01:83, 07:01:93, 07:73:02, 07:89, 07:93:01, 07:453, 07:547, 07:627, 07:668, 07:806, 07:814 *07:419	B*08:109
78	485 bp 435 bp	1070 bp	*07:01:13, 07:68, 07:76:02, 07:199:01- 07:199:02	*02:02:13, 02:02:29, 06:101, 06:127:01:01- 06:127:02, 06:136, 06:144, 12:02:11, 18:01:01:01-18:04, 18:06- 18:14, B*15:434
79	170 bp	1070 bp	*07:600:01N-07:600:02N, 07:603N	
80⁶	155 bp 265 bp 345 bp 375 bp	1070 bp	*07:350N *07:486 *07:593N *07:256, 07:497	*04:379, 06:189, A*11:232 , A*36:06



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81	150 bp	1070 bp	*07:231	*16:10, B*44:247, B*44:295
82⁵	170 bp 220 bp	1070 bp	*07:288 *07:393N, 07:483N	
83⁶	170 bp 215 bp 250 bp	1070 bp	*07:214, 07:429 *07:445, 07:476N *07:361	
84	130 bp 185 bp	1070 bp	*07:386, 07:439, 07:700 *07:107, 07:224, 07:633N	*06:22, 12:293, 16:31, B*15:193, B*35:283, B*35:461N, B*46:07N
85⁶	225 bp 200 bp 275 bp	1070 bp	*07:311, 07:551N *07:83, 07:458 *07:360, 07:582Q, 07:649	
86	135 bp 285 bp	1070 bp	*07:58, 07:573 *07:226, 07:582Q, 07:713	
87	175 bp 210 bp 275 bp	1070 bp	*07:339, 07:410 *07:411, 07:507N *07:340	
88	150 bp	1070 bp	*07:452N, 07:491:01N-07:491:02N	*01:111N, 14:47:01N-14:47:02N, B*15:209N, B*39:139N, B*46:55N
	205 bp 285 bp		*07:507N *07:407	
89⁴	75 bp 220 bp	1070 bp	*07:229, 07:387 *07:272, 07:326, 07:374	*04:273 ^w , 12:131 *06:18 ^w , 06:120 ^w , 18:12
90	140 bp	1070 bp	*07:102, 07:351	*03:137, 03:182, 03:459, 03:504, B*07:13, B*07:247, B*07:270, B*27:198, B*39:121, B*54:02
91⁶	160 bp	1070 bp	*07:153, 07:324, 07:738	
92⁴	100 bp	1070 bp	*07:104N, 07:457, 07:702N	*04:127, 05:84, 05:180N, B*15:272N, B*39:111, B*40:286N
	170 bp		*07:119, 07:784	*02:99, 05:157, 08:174, B*07:87, B*08:224, B*27:55, B*27:149
93	155 bp	1070 bp	*07:491:01N-07:491:02N	*01:111N, 14:47:01N-14:47:02N, B*15:209N, B*39:139N, B*46:55N
94	200 bp 530 bp	1070 bp	*07:453 *07:01:01:01-07:01:02:08, 07:01:04-07:05, 07:07-07:17:04, 07:18:04, 07:20:01-07:33N, 07:35-07:294, 07:296-07:330:01, 07:331-07:342, 07:344-07:347N, 07:349-07:516, 07:518-07:606, 07:608-07:612, 07:614-07:619, 07:622-07:686N, 07:688-07:705, 07:707-07:720, 07:722-07:734, 07:736:01:01-07:738, 07:740-07:759, 07:761-07:775, 07:777-07:780, 07:782, 07:784-07:802, 07:804N, 07:806-07:814, 07:816-07:818, 07:820N-07:826, 07:828-07:829, 07:831-07:837	*12:181
95⁶	245 bp	1070 bp	*07:316, 07:359, 07:533, 07:607, 07:708	



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Lot-specific Information

96⁸	-	-	Negative Control
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¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-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.

⁴HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁵Primer mixes 19, 20, 34, 35, 36, 43, 44, 45, 46, 47, 59 and 82 have a tendency to giving rise to primer oligomer formation.

⁶Primer mixes 13, 14, 17, 20, 23, 24, 30, 37, 40, 45, 56, 64, 65, 66, 70, 74, 77, 80, 83, 85, 91 and 95 may have tendencies of unspecific amplifications.

⁷Primer mixes 14, 15 and 16 may give rise to a lower yield of HLA-specific PCR product than the other C*07 primer mixes.

⁸Primer mix 96 contains a negative control, which will amplify the majority of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 200 base pairs.

Abbreviations

w: might be weakly amplified.



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Lot No.: **8K8**

Lot-specific Information
PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	245	290	110	185	95	100	190	285	215	185	285	130
PCR product	425				170			505	425		305	
					245							
Length of int.	800	800	800	1070	800	1070	1070	1070	800	1070	800	1070
pos. control ¹												
5'-primer(s) ²	47	363	267	368	47	540	363	355	47	368	355	512
	5'-Agg ^{3'}	5'-AAT ^{3'}	5'-CAA ^{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	270	368	486			992			365	
	5'-CAC ^{3'}	5'-gTA ^{3'}	5'-AAC ^{3'}	5'-gTC ^{3'}	5'-ACC ^{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			513	539			1016	302			
	5'-CAT ^{3'}			5'-TCT ^{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.	85	215	80	240	130	120	220	145	100	205	155	135
PCR product			290			230	465	170	225	250	185	
			460			265		190				
Length of int.	1070	1070	1070	800	1070	800	800	1070	800	800	1070	1070
pos. control ¹												
5'-primer(s) ²	289	97	47	419	512	368	47	463	368	134	199	524
	5'-Agg ^{3'}	5'-TCg ^{3'}	5'-Agg ^{3'}	5'-gTT ^{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	97	369			3 rd I		486	5 th I	176	504	
	5'-g ^{3'}	5'-TTg ^{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	270	337	618	601	445	97	618	427	341	341	618
	5'-T ^{3'}	5'-TAC ^{3'}	5'-CTT ^{3'}	5'-CT ^{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'}						
						779						
						5'-CTA ^{3'}						
						812						
						5'-CCg ^{3'}						
Well No.	13	14	15	16	17	18	19	20	21	22	23	24



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Lot-specific Information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	105	100	130	175	255	60	420	115	205	335	320	265
PCR product	150	250	240	260		260		155	230		360	
	235	300		290				245				
								285				
Length of int. pos. control ¹	1070	1070	1070	800	1070	800	1070	1070	1070	1070	1070	800
5'-primer(s) ²	206	361	92	368	122	124	47	97	431	341	47	47
	5'-AgA ^{3'}	5'-AgT ^{3'}	5'-gTg ^{3'}	5'-gTC ^{3'}	5'-CCA ^{3'}	5'-gCT ^{3'}	5'-Agg ^{3'}	5'-TCg ^{3'}	5'-CgT ^{3'}	5'-ggA ^{3'}	5'-Agg ^{3'}	5'-Agg ^{3'}
	419	411	193	390	410	322			688			
	5'-gTC ^{3'}	5'-TAg ^{3'}	5'-CCA ^{3'}	5'-gAA ^{3'}	5'-gTT ^{3'}	5'-gCC ^{3'}			5'-CCA ^{3'}			
		560	539	410								
		5'-CAC ^{3'}	5'-gCg ^{3'}	5'-gTg ^{3'}								
				486								
				5'-TAC ^{3'}								
3'-primer(s) ³	270	618	289	618	341	341	289	172	618	387	197	142
	5'-TAC ^{3'}	5'-CT ^{3'}	5'-AgC ^{3'}	5'-CT ^{3'}	5'-CgT ^{3'}	5'-CgT ^{3'}	5'-AgT ^{3'}	5'-CAT ^{3'}	5'-CT ^{3'}	5'-TTg ^{3'}	5'-gAT ^{3'}	5'-TgC ^{3'}
	527		618		618		296	212	853		235	
	5'-CCC ^{3'}		5'-CT ^{3'}		5'-CT ^{3'}		5'-CTT ^{3'}	5'-gCC ^{3'}	5'-CAT ^{3'}		5'-CTg ^{3'}	
	614							302				
	5'-CgA ^{3'}							5'-ggT ^{3'}				
	3 rd I							341				
	5'-TgC ^{3'}							5'-Tgg ^{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.	235	150	100	120	140	100	105	165	240	315	200	155
PCR product	265		195	205	170	205	150	195	475	350	255	220
			255	440	255	250	175	290		420	420	255
							220				455	410
Length of int. pos. control ¹	1070	1070	800	800	1070	1070	800	1070	1070	1070	1070	1070
5'-primer(s) ²	368	355	125	47	125	409	97	368	341	47	47	47
	5'-gTC ^{3'}	5'-CCC ^{3'}	5'-CgT ^{3'}	5'-Agg ^{3'}	5'-CgA ^{3'}	5'-ggC ^{3'}	5'-TCg ^{3'}	5'-gTC ^{3'}	5'-ggA ^{3'}	5'-Agg ^{3'}	5'-Agg ^{3'}	5'-Agg ^{3'}
	388		697	486	211	410	512	463	652		457	439
	5'-CCT ^{3'}		5'-TCg ^{3'}	5'-ACC ^{3'}	5'-Agg ^{3'}	5'-gTg ^{3'}	5'-gTT ^{3'}	5'-TgT ^{3'}	5'-CCA ^{3'}		5'-AgC ^{3'}	5'-ATC ^{3'}
			794		520	445		464				503
			5'-CTC ^{3'}		5'-CgA ^{3'}	5'-TCA ^{3'}		5'-gCT ^{3'}				5'-CCg ^{3'}
						463		493				
						5'-TgT ^{3'}		5'-CTT ^{3'}				
						560						
						5'-CgA ^{3'}						
3'-primer(s) ³	563	464	341	79	341	618	212	618	527	190	131	131
	5'-CgA ^{3'}	5'-AgA ^{3'}	5'-CgT ^{3'}	5'-gTA ^{3'}	5'-CgT ^{3'}	5'-CT ^{3'}	5'-gCC ^{3'}	5'-CT ^{3'}	5'-CCA ^{3'}	5'-ggT ^{3'}	5'-ggT ^{3'}	5'-ggT ^{3'}
	601		853	312	618		231		853	226	295	275
	5'-CTT ^{3'}		5'-CAT ^{3'}	5'-AgT ^{3'}	5'-CT ^{3'}		5'-Tgg ^{3'}		5'-CAT ^{3'}	5'-CAA ^{3'}	5'-TCA ^{3'}	5'-gCC ^{3'}
	603			317				233		295	330	296
	5'-TTg ^{3'}			5'-CgA ^{3'}				5'-CCC ^{3'}		5'-TCA ^{3'}	5'-TgT ^{3'}	5'-CTT ^{3'}
				317				277			618	618
				5'-CAA ^{3'}				5'-gCT ^{3'}			5'-CT ^{3'}	5'-CT ^{3'}
				563				578				
				5'-Cgg ^{3'}				5'-TgT ^{3'}				
								613				
								5'-gCC ^{3'}				
Well No.	37	38	39	40	41	42	43	44	45	46	47	48



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Lot-specific Information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	70	345	65	65	70	120	160	210	70	80	200	130
PCR product	155	425	235	205	110	200	210	260	175	450	300	300
	230		285	280	155	235	290		230			370
						285	530		270			
						340						
						370						
						430						
Length of int.	800	800	1070	1070	1070	1070	1070	1070	800	1070	800	1070
pos. control ¹												
5'-primer(s) ²	89	47	368	179	503	47	91	388	270	47	359	47
	5'-gAA 3'	5'-Agg 3'	5'-gTC 3'	5'-gTC 3'	5'-CCg 3'	5'-Agg 3'	5'-ggg 3'	5'-CCT 3'	5'-AAT 3'	5'-Agg 3'	5'-CCT 3'	5'-Agg 3'
	176			317	540	648	173	397	388	512	454	359
	5'-gCA 3'			5'-gCA 3'	5'-gAC 3'	5'-CAC 3'	5'-Cgg 3'	5'-gCg 3'	5'-CCT 3'	5'-gTT 3'	5'-ACT 3'	5'-CCT 3'
	429			458	553		211	409	429		463	527
	5'-gAA 3'			5'-ggT 3'	5'-TgC 3'		5'-Agg 3'	5'-ggC 3'	5'-gAA 3'		5'-TgA 3'	5'-TgA 3'
	440				589		232	450	485		464	
	5'-TTT 3'				5'-TgA 3'		5'-AgA 3'	5'-CTg 3'	5'-CAA 3'		5'-gCA 3'	
	589						992					
	5'-TgA 3'						5'-TAA 3'					
3'-primer(s) ³	289	221	394	341	618	112	341	618	299	327	618	180
	5'-AgC 3'	5'-ACT 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	299	553	3 rd I		218	1043		618	544		246
	5'-AgC 3'	5'-TCT 3'	5'-CTA 3'	5'-CTC 3'		5'-gCT 3'	5'-CAg 3'		5'-CT 3'	5'-ggT 3'		5'-TAA 3'
	618		563			244			559		618	
	5'-CT 3'		5'-CgA 3'			5'-CTg 3'			5'-CAg 3'		5'-CT 3'	
			569			727						
			5'-ACC 3'			5'-CCA 3'						
			614			809						
			5'-CAg 3'			5'-CAA 3'						
						893						
						5'-CCT 3'						
						912						
						5'-gTA 3'						
Well No.	49	50	51	52	53	54	55	56	57	58	59	60



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Lot No.: **8K8**

Lot-specific Information

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	130	200	275	135	150	150	180	75	135	215	105	110
PCR product	245	285	320	230	185	185	215	230	185	345	120	245
					215	225	290	260	240	405	240	290
								290			280	
Length of int.	1070	1070	800	1070	1070	800	1070	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer(s) ²	355	92	47	89	419	419	368	368	419	47	47	368
	5'-CCC 3'	5'-gTg 3'	5'-Agg 3'	5'-gAA 3'	5'-gTC 3'	5'-gTC 3'	5'-gTC 3'	5'-gTC 3'	5'-gTC 3'	5'-Agg 3'	5'-Agg 3'	5'-gTg 3'
		176	380	113							380	415
		5'-gCC 3'	5'-CCC 3'	5'-CCA 3'							5'-CCC 3'	5'-ACT 3'
		185	385	193							419	538
		5'-CAA 3'	5'-ggT 3'	5'-CCA 3'							5'-gTA 3'	5'-AgT 3'
		458		368							538	544
		5'-ggT 3'		5'-gTC 3'							5'-A.C 3'	5'-gAA 3'
											554	554
											5'-ggT 3'	5'-ggT 3'
3'-primer(s) ³	445	341	146	289	530	530	505	403	506	85	618	618
	5'-ggA 3'	5'-CgT 3'	5'-CCg 3'	5'-AgC 3'	5'-CCA 3'	5'-CCA 3'	5'-gCT 3'	5'-gCC 3'	5'-Tgg 3'	5'-CAA 3'	5'-CT 3'	5'-CT 3'
	448	3 rd I	190	550	535	556	544	557	512	85		
	5'-CAC 3'	5'-CTC 3'	5'-ggT 3'	5'-CAT 3'	5'-CTA 3'	5'-gCT 3'	5'-gC 3'	5'-TgT 3'	5'-CAT 3'	5'-Cag 3'		
	559		202	569	563	564	616	589	563	100		
	5'-Cgg 3'		5'-TCA 3'	5'-ACC 3'	5'-CgT 3'	5'-ACC 3'	5'-TgT 3'	5'-CTT 3'	5'-CgT 3'	5'-ggg 3'		
			618		565	564		616	3 rd I	221		
			5'-CT 3'		5'-CAA 3'	5'-ACT 3'		5'-TgT 3'	5'-TgC 3'	5'-ACT 3'		
					595	604				280		
					5'-g 3'	5'-CgC 3'				5'-CTA 3'		
					596							
					5'-CC 3'							
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	195	210	140	115	200	435	170	155	150	170	170	130
PCR product		355	220	280	240			265		220	215	185
			295		430			345			250	225
					485			375				
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer(s) ²	419	47	512	103	648	213	97	341	418	368	97	419
	5'-gTC 3'	5'-Agg 3'	5'-gTT 3'	5'-CCT 3'	5'-CAC 3'	5'-CCC 3'	5'-TCg 3'	5'-ggA 3'	5'-Agg 3'	5'-gTC 3'	5'-TCg 3'	5'-gTC 3'
	1018		3 rd I	268				3 rd I				
	5'-gTg 3'		5'-Cgg 3'	5'-gA 3'				5'-Cgg 3'				
3'-primer(s) ³	564	85	610	341	809	355	224	425	527	496	226	506
	5'-ACC 3'	5'-CAC 3'	5'-CTA 3'	5'-CgT 3'	5'-CAA 3'	5'-gAg 3'	5'-CCT 3'	5'-CgC 3'	5'-CCg 3'	5'-gAg 3'	5'-CAT 3'	5'-TgT 3'
	565	90	614		845	355	225	704		544	265	508
	5'-CAT 3'	5'-Ag 3'	5'-CgT 3'		5'-ACA 3'	5'-gAg 3'	5'-ACT 3'	5'-CCg 3'		5'-gC 3'	5'-CTA 3'	5'-CTg 3'
	596	233	768		912			812		553	277	564
	5'-CC 3'	5'-CCC 3'	5'-gTg 3'		5'-gTA 3'			5'-CCg 3'		5'-CTA 3'	5'-gCT 3'	5'-ACT 3'
	1055		845		967			893			308	565
	5'-TgC 3'		5'-ACA 3'		5'-gAT 3'			5'-CTT 3'			5'-gCg 3'	5'-CAT 3'
	1076											595
	5'-ACA 3'											5'-g 3'
												614
												5'-CgA 3'
Well No.	73	74	75	76	77	78	79	80	81	82	83	84



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

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Lot No.: **8K8**

Lot-specific Information

Well No.	85	86	87	88	89	90	91	92	93	94	95
Length of spec.	200	135	175	150	75	140	160	100	155	530	245
PCR product	275	285	210 275	205 285	220			170	200		
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) ²	373 5'-gCg 3'	373 5'-gCA 3'	97 5'-TCg 3'	97 5'-TCg 3'	112 5'-CCT 3'	103 5'-CCT 3'	732 5'-gAT 3'	361 5'-AgA 3'	47 5'-Agg 3'	992 5'-TAT 3'	648 5'-CAC 3'
	385 5'-ggA 3'	373 5'-gCg 3'		355 5'-CCC 3'	113 5'-CCA 3'				355 5'-CCC 3'		
	458 5'-ggg 3'	524 5'-CCC 3'			257 5'-CCA 3'						
	1018 5'-gTg 3'										
3'-primer(s) ³	618 5'-CT 3'	618 5'-CT 3'	231 5'-Tgg 3'	208 5'-CTA 3'	289 5'-AgC 3'	201 5'-CTC 3'	853 5'-CAT 3'	422 5'-AgA 3'	74 5'-AgT 3'	1043 5'-CAg 3'	845 5'-ACA 3'
	1076 5'-ACA 3'		259 5'-CTA 3'	259 5'-CTA 3'				426 5'-TCC 3'	470 5'-TCT 3'		862 5'-CTT 3'
			278 5'-ggT 3'	340 5'-gTT 3'				488 5'-CCA 3'	471 5'-gTT 3'		
			332 5'-TCC 3'	470 5'-TCT 3'							
				471 5'-gTT 3'							
Well No.	85	86	87	88	89	90	91	92	93	94	95

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.: **8K8**

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.:	202016501	202016502	202016503	202016504	202016505	202016506	202016507	202016508	202016509	202016510	202016511	202016512	202016513	202016514	202016515	202016516
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	*07:18		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	9191 CH1007	*07:04	*15:29	+	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-	
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	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.: **8K8**

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.:	202016517	202016518	202016519	202016520	202016521	202016522	202016523	202016524	202016525	202016526	202016527	202016528	202016529	202016530	202016531	202016532
	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		*07:18	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*07:04 *15:29	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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		*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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.: **8K8**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit ²																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	202016533	202016534	202016535	202016536	202016537	202016538	202016539	202016540	202016541	202016542	202016543	202016544	202016545	202016546	202016547	202016548
	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	*07:18		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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“Instructions for Use” (IFU)

Lot No.: **8K8**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-C*07 SSP subtyping kit ²																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:																
				202016549	202016550	202016551	202016552	202016553	202016554	202016555	202016556	202016557	202016558	202016559	202016560	202016561	202016562	202016563	202016564	
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	*07:18		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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“Instructions for Use” (IFU)

Lot No.: **8K8**

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	77	78	79	80	
				Prod. No.:	202016565	202016566	202016567	202016568	202016569	202016570	202016571	202016572	202016573	202016574	202016575	202016576	202016577	202016578	202016579	202016580
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	*07:18		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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.: **8K8**

Lot-specific Information

CELL LINE VALIDATION SHEET																			
HLA-C*07 SSP subtyping kit²																			
				Well															
				81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	
				Prod. No.:	202016581	202016582	202016583	202016584	202016585	202016586	202016587	202016588	202016589	202016590	202016591	202016592	202016593	202016594	202016595
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	*07:18		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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

Visit <https://labproducts.caredx.com> for
“Instructions for Use” (IFU)

Lot No.: **8K8**

Lot-specific Information

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.

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, 15, 16, 18, 19, 23 to 31, 34 to 36, 38, 39, 41 to 44, 46 to 93 and 95 were available.

The specificities of the primers in primer solutions 5, 10, 11, 13, 15, 16, 18, 19, 24 to 27, 31, 36, 42 to 44, 47 to 50, 53 to 60, 63, 64, 68, 71, 72, 74, 78, 80, 81, 85 and 89 to 91 were tested by separately adding one or more 5'-primers, and one or more 3'-primers respectively.

In primer solutions 34, 35, 38, 46, 51, 61, 65 to 67, 69, 70, 73, 75, 77, 79, 82 to 84, 87, 88, 92, 93 and 95 it was only possible to test the 5'-primers, the 3'-primers were not possible to be tested.

In primer solutions 23, 28 to 30, 39, 41, 52, 62, 76 and 86 it was only possible to test the 3'-primers, the 5'-primers were not possible to be tested.

In primer solutions 3, 8, 11, 14, 20, 22, 26, 27, 33, 42, 44, 47 to 49, 53, 55 to 57, 59, 60, 63, 64, 71, 72, 85 and 89 one or more 5'-primers were not possible to be tested, and in primer solutions 4, 5, 9, 13, 15, 18, 21, 25, 31, 32, 37, 40, 43, 47, 48, 50, 54, 58, 60, 63, 64, 68, 74, 77, 80 and 85 one or more 3'-primers were not possible to be tested.

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



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.: **8K8**

Lot-specific Information

ADDRESSES:

Manufacturer:

CareDx AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Tel: +46-8-508 939 00

Fax: +46-8-717 88 18

E-mail: orders-se@caredx.com

Web page: <https://labproducts.caredx.com/>

CareDx Lab Solutions Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

Tel: 1-877-653-78171

Fax: 610-344-7989

E-mail: orders-us@caredx.com

Web page: <https://labproducts.caredx.com/>

For information on CareDx distributors worldwide, contact **CareDx AB**.

