

101.412-24/04 – including *Taq* polymerase, IFU-01 Visit <https://labproducts.caredx.com> for
101.412-24u/04u – without *Taq* polymerase, IFU-02 “Instructions for Use” (IFU)

Lot No.: **8H9**

Lot-specific information

Olerup SSP® HLA-A*02

Product number:	101.412-24/04 – including <i>Taq</i> pol. 101.412-24u/04u – without <i>Taq</i> pol.
Lot number:	8H9
Expiry date:	2022-02-01
Number of tests:	24 tests – Product No. 101.412-24/24u 4 tests – Product No. 101.412-04/04u
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. 8H9.

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-A*02 LOT (1G9)**

- The product documentation has been updated for new alleles of IMGT 3.36.0
- The kit resolution focuses on common and well documented (CWD) alleles¹.

¹As described in section Uniquely Identified Alleles.

The HLA-A*02 primer set have been updated for the HLA-A alleles described since the previous *Olerup SSP®* HLA-A lot was made (**Lot No. 1G9**).

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
2	Added	Added	5'-primers added for the A*02:01:101 and A*02:01:106 alleles. 3'-primer added for the A*02:01:03 allele.
12	Removed	Moved	5'-primer removed. 3'-primer moved to mixes 33 and 83 for improved resolution of the A*02:01 and the A*02:05 allele.
13	Removed	Moved	5'-primer removed. 3'-primer moved to mix 78 for improved resolution of the A*02:01 and the A*02:05 allele.
32	Added	-	5'-primer added for the A*02:131 allele
33	-	Added	3'-primer from mix 12 added for the A*02:85 allele.
41	Added	-	5'-primers added from mix 71.
71	Moved, added	Added	5'-primer moved to mix 41. Primer pair added for improved resolution of the A*02:30 allele. Redundant primers removed.
78	Added	-	5'-primer added from mix 13 for the A*02:84 allele. 5'-primer added for improved yield of the A*02:01:14Q allele.
79	-	-	Control primer pair exchanged for reduced tendency of oligomer formation.
80	Added	-	5'-primer added for improved yield of the A*02:01:14Q allele.
82	-	Removed	Redundant 3'-primer removed.
83	-	Added	3'-primer for A*02:85 added from mix 12. 3'-primer added for improved yield.

Change in revision R01 compared to R00:

1. Primer mix 88 amplifies the A*02:34, 02:56:01-02:56:02, 02:62 and 02:103 alleles. This has been corrected in the specificity and interpretation tables.

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Well 96 contains Negative Control primer pairs, that will amplify a 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 products generated by the positive control primer pair are 200 and 430 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-A*02 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the A*02:01 to A*02:837 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-A*02’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘8H9’.

Wells 1 to 95 – HLA-A*02 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 covered with a PCR-compatible foil.

INTERPRETATION

Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A*02 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All HLA-A*02 alleles recognized by the HLA Nomenclature Committee in April 2019, i.e. **A*02:01 to A*02:837**, will be amplified by the primers in the HLA-A*02 subtyping kit^{1,2}.

The HLA-A*02 kit enables separation of the confirmed HLA-A*02 alleles as listed in the IMGT/HLA database 3.25.0. 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-A*02 alleles is listed below.

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Lot-specific information

The HLA-A*02 kit also enables identification of many null and alternatively expressed alleles.

The following HLA-A*02 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
A*02:01:83, 02:01:105, 02:01:107, 02:01:129, 02:01:138, 02:343, 02:399, 02:668, 02:699	55	A*02:139, 02:235	88
A*02:28, 02:409	27	A*02:140, 02:468:02N	89
A*02:60:01-02:60:02, 02:254, 02:501N	45	A*02:141, 02:275	90
A*02:70, 02:820	32		
A*02:96, 02:587	15	A*02:145, 02:221	64
A*02:97:01-02:97:02, 02:305N	59	A*02:150:01, 02:197:01-02:197:02, 02:325, 02:745	94
A*02:107, 02:202, 02:251	65	A*02:159, 02:293Q, 02:364, 02:390	39
A*02:111, 02:350N, 02:679	67	A*02:180, 02:358	29
A*02:119, 02:263, 02:553	73	A*02:193, 02:213	78
A*02:120, 02:223N	74	A*02:233, 02:459	24
A*02:132, 02:215, 02:237, 02:467	83	A*02:269, 02:367	70
A*02:134, 02:314N	85	A*02:301N, 02:524:01-02:524:02	63

¹HLA-A alleles listed on the IMGT/HLA web page 2019-April-17, release 3.36.0, 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>.

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Lot-specific information

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:01:01:01	Confirmed	A*02:01:48	Unconfirmed	A*02:01:99	Unconfirmed	A*02:06:06	Unconfirmed
A*02:01:01:02L	Confirmed	A*02:01:49	Confirmed	A*02:01:100	Confirmed	A*02:06:07	Confirmed
A*02:01:01:03	Unconfirmed	A*02:01:50	Confirmed	A*02:01:101	Unconfirmed	A*02:06:08	Confirmed
A*02:01:01:04	Unconfirmed	A*02:01:51	Confirmed	A*02:01:102	Confirmed	A*02:06:09	Unconfirmed
A*02:01:01:05	Confirmed	A*02:01:52	Confirmed	A*02:01:103	Confirmed	A*02:06:10	Unconfirmed
A*02:01:01:06	Unconfirmed	A*02:01:53	Unconfirmed	A*02:01:104	Unconfirmed	A*02:06:11	Confirmed
A*02:01:02	Confirmed	A*02:01:54	Unconfirmed	A*02:01:105	Unconfirmed	A*02:06:12	Confirmed
A*02:01:03	Confirmed	A*02:01:55	Unconfirmed	A*02:01:106	Unconfirmed	A*02:06:13	Unconfirmed
A*02:01:04	Confirmed	A*02:01:56	Unconfirmed	A*02:01:107	Unconfirmed	A*02:06:14	Unconfirmed
A*02:01:05	Confirmed	A*02:01:57	Unconfirmed	A*02:01:108	Unconfirmed	A*02:06:15	Unconfirmed
A*02:01:06	Unconfirmed	A*02:01:58	Unconfirmed	A*02:01:109	Unconfirmed	A*02:06:16	Unconfirmed
A*02:01:07	Unconfirmed	A*02:01:59	Unconfirmed	A*02:01:110	Unconfirmed	A*02:06:17	Unconfirmed
A*02:01:08	Unconfirmed	A*02:01:60	Unconfirmed	A*02:01:111	Unconfirmed	A*02:06:18	Confirmed
A*02:01:09	Confirmed	A*02:01:61	Confirmed	A*02:01:112	Unconfirmed	A*02:06:19	Unconfirmed
A*02:01:10	Unconfirmed	A*02:01:62	Unconfirmed	A*02:01:113	Unconfirmed	A*02:06:20	Unconfirmed
A*02:01:11	Unconfirmed	A*02:01:63	Unconfirmed	A*02:01:114	Confirmed	A*02:06:21	Unconfirmed
A*02:01:12	Unconfirmed	A*02:01:64	Unconfirmed	A*02:01:115	Unconfirmed	A*02:06:22	Unconfirmed
A*02:01:13	Unconfirmed	A*02:01:65	Unconfirmed	A*02:01:116	Unconfirmed	A*02:07:01	Confirmed
A*02:01:14Q	Confirmed	A*02:01:66	Unconfirmed	A*02:01:117	Unconfirmed	A*02:07:02	Unconfirmed
A*02:01:15	Unconfirmed	A*02:01:67	Unconfirmed	A*02:01:118	Unconfirmed	A*02:07:03	Unconfirmed
A*02:01:17	Unconfirmed	A*02:01:68	Unconfirmed	A*02:01:119	Unconfirmed	A*02:07:04	Unconfirmed
A*02:01:18	Confirmed	A*02:01:69	Confirmed	A*02:01:120	Confirmed	A*02:07:05	Unconfirmed
A*02:01:19	Unconfirmed	A*02:01:70	Confirmed	A*02:01:121	Unconfirmed	A*02:07:06	Unconfirmed
A*02:01:21	Unconfirmed	A*02:01:71	Confirmed	A*02:01:122	Unconfirmed	A*02:07:07	Unconfirmed
A*02:01:22	Confirmed	A*02:01:72	Unconfirmed	A*02:02:01:01	Confirmed	A*02:07:08	Unconfirmed
A*02:01:23	Confirmed	A*02:01:73	Unconfirmed	A*02:02:01:02	Unconfirmed	A*02:08	Confirmed
A*02:01:24	Confirmed	A*02:01:74	Confirmed	A*02:02:02	Confirmed	A*02:09	Confirmed
A*02:01:25	Confirmed	A*02:01:75	Unconfirmed	A*02:02:03	Unconfirmed	A*02:10	Confirmed
A*02:01:26	Confirmed	A*02:01:76	Unconfirmed	A*02:03:01	Confirmed	A*02:11:01	Confirmed
A*02:01:27	Confirmed	A*02:01:77	Unconfirmed	A*02:03:02	Unconfirmed	A*02:11:02	Confirmed
A*02:01:28	Unconfirmed	A*02:01:78	Unconfirmed	A*02:03:03	Confirmed	A*02:11:03	Unconfirmed
A*02:01:29	Confirmed	A*02:01:79	Unconfirmed	A*02:03:04	Unconfirmed	A*02:11:04	Unconfirmed
A*02:01:30	Confirmed	A*02:01:80	Unconfirmed	A*02:03:05	Unconfirmed	A*02:11:05	Unconfirmed
A*02:01:31	Confirmed	A*02:01:81	Unconfirmed	A*02:03:06	Unconfirmed	A*02:11:06	Confirmed
A*02:01:32	Confirmed	A*02:01:83	Unconfirmed	A*02:03:07	Unconfirmed	A*02:11:07	Unconfirmed
A*02:01:33	Unconfirmed	A*02:01:84	Confirmed	A*02:03:08	Unconfirmed	A*02:11:08	Unconfirmed
A*02:01:34	Confirmed	A*02:01:85	Unconfirmed	A*02:04	Confirmed	A*02:11:09	Unconfirmed
A*02:01:35	Confirmed	A*02:01:86	Confirmed	A*02:05:01	Confirmed	A*02:12	Confirmed
A*02:01:36	Confirmed	A*02:01:87	Confirmed	A*02:05:02	Confirmed	A*02:13	Confirmed
A*02:01:37	Confirmed	A*02:01:88	Unconfirmed	A*02:05:03	Unconfirmed	A*02:14	Confirmed
A*02:01:38	Confirmed	A*02:01:89	Unconfirmed	A*02:05:04	Confirmed	A*02:15N	Unconfirmed
A*02:01:39	Confirmed	A*02:01:90	Unconfirmed	A*02:05:05	Unconfirmed	A*02:16	Confirmed
A*02:01:40	Confirmed	A*02:01:91	Unconfirmed	A*02:05:06	Unconfirmed	A*02:17:01	Confirmed
A*02:01:41	Unconfirmed	A*02:01:92	Unconfirmed	A*02:06:01:01	Confirmed	A*02:17:02	Confirmed
A*02:01:42	Confirmed	A*02:01:93	Unconfirmed	A*02:06:01:02	Confirmed	A*02:17:03	Unconfirmed
A*02:01:43	Confirmed	A*02:01:94	Unconfirmed	A*02:06:01:03	Confirmed	A*02:18	Unconfirmed
A*02:01:44	Unconfirmed	A*02:01:95	Unconfirmed	A*02:06:02	Unconfirmed	A*02:19	Unconfirmed
A*02:01:45	Confirmed	A*02:01:96	Unconfirmed	A*02:06:03	Unconfirmed	A*02:20:01	Confirmed
A*02:01:46	Confirmed	A*02:01:97	Unconfirmed	A*02:06:04	Unconfirmed	A*02:20:02	Confirmed
A*02:01:47	Confirmed	A*02:01:98	Unconfirmed	A*02:06:05	Confirmed	A*02:21	Unconfirmed

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Lot-specific information

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A*02:22:01	Confirmed	A*02:64:02	Unconfirmed	A*02:111	Unconfirmed	A*02:158	Confirmed
A*02:22:02	Unconfirmed	A*02:65	Unconfirmed	A*02:112	Unconfirmed	A*02:159	Unconfirmed
A*02:24:01	Confirmed	A*02:66	Confirmed	A*02:113:01N	Confirmed	A*02:160	Confirmed
A*02:24:02	Unconfirmed	A*02:67	Unconfirmed	A*02:113:02N	Unconfirmed	A*02:161	Confirmed
A*02:25	Confirmed	A*02:68	Unconfirmed	A*02:114	Confirmed	A*02:162	Unconfirmed
A*02:26	Unconfirmed	A*02:69	Unconfirmed	A*02:115	Unconfirmed	A*02:163	Confirmed
A*02:27	Confirmed	A*02:70	Unconfirmed	A*02:116	Unconfirmed	A*02:164	Confirmed
A*02:28	Confirmed	A*02:71	Unconfirmed	A*02:117	Unconfirmed	A*02:165	Confirmed
A*02:29	Confirmed	A*02:72	Unconfirmed	A*02:118	Confirmed	A*02:166	Confirmed
A*02:30:01	Confirmed	A*02:73	Unconfirmed	A*02:119	Confirmed	A*02:167	Unconfirmed
A*02:30:02	Unconfirmed	A*02:74:01	Unconfirmed	A*02:120	Unconfirmed	A*02:168	Unconfirmed
A*02:31	Unconfirmed	A*02:74:02	Unconfirmed	A*02:121	Confirmed	A*02:169	Confirmed
A*02:32N	Unconfirmed	A*02:75	Unconfirmed	A*02:122	Confirmed	A*02:170	Unconfirmed
A*02:33	Confirmed	A*02:76:01	Confirmed	A*02:123	Confirmed	A*02:171:01	Unconfirmed
A*02:34	Unconfirmed	A*02:76:02	Unconfirmed	A*02:124	Unconfirmed	A*02:171:02	Unconfirmed
A*02:35:01	Confirmed	A*02:77	Confirmed	A*02:125N	Confirmed	A*02:172	Confirmed
A*02:35:02	Unconfirmed	A*02:78	Unconfirmed	A*02:126	Unconfirmed	A*02:173	Confirmed
A*02:35:03	Unconfirmed	A*02:79:01	Unconfirmed	A*02:127	Unconfirmed	A*02:174	Confirmed
A*02:36	Confirmed	A*02:79:02	Unconfirmed	A*02:128	Confirmed	A*02:175	Unconfirmed
A*02:37	Unconfirmed	A*02:80	Confirmed	A*02:129	Confirmed	A*02:176	Confirmed
A*02:38	Confirmed	A*02:81	Unconfirmed	A*02:130	Unconfirmed	A*02:177	Confirmed
A*02:39	Confirmed	A*02:82N	Confirmed	A*02:131	Confirmed	A*02:178	Unconfirmed
A*02:40:01	Confirmed	A*02:83N	Confirmed	A*02:132	Unconfirmed	A*02:179	Unconfirmed
A*02:40:02	Confirmed	A*02:84	Confirmed	A*02:133	Confirmed	A*02:180	Confirmed
A*02:41	Confirmed	A*02:85	Confirmed	A*02:134	Unconfirmed	A*02:181	Unconfirmed
A*02:42	Confirmed	A*02:86	Confirmed	A*02:135	Unconfirmed	A*02:182	Confirmed
A*02:43N	Unconfirmed	A*02:87	Confirmed	A*02:136	Confirmed	A*02:183	Confirmed
A*02:44	Confirmed	A*02:88N	Unconfirmed	A*02:137	Unconfirmed	A*02:184	Unconfirmed
A*02:45	Unconfirmed	A*02:89	Unconfirmed	A*02:138	Unconfirmed	A*02:185	Unconfirmed
A*02:46	Unconfirmed	A*02:90	Confirmed	A*02:139	Confirmed	A*02:186	Confirmed
A*02:47	Unconfirmed	A*02:91	Unconfirmed	A*02:140	Unconfirmed	A*02:187	Unconfirmed
A*02:48	Confirmed	A*02:92	Unconfirmed	A*02:141	Confirmed	A*02:188	Confirmed
A*02:49	Confirmed	A*02:93	Confirmed	A*02:142	Unconfirmed	A*02:189	Confirmed
A*02:50	Unconfirmed	A*02:94N	Unconfirmed	A*02:143	Unconfirmed	A*02:190	Confirmed
A*02:51	Confirmed	A*02:95	Confirmed	A*02:144	Unconfirmed	A*02:191	Unconfirmed
A*02:52	Unconfirmed	A*02:96	Confirmed	A*02:145	Unconfirmed	A*02:192	Unconfirmed
A*02:53N	Confirmed	A*02:97:01	Confirmed	A*02:146	Confirmed	A*02:193	Confirmed
A*02:54	Confirmed	A*02:97:02	Unconfirmed	A*02:147	Confirmed	A*02:194	Confirmed
A*02:55	Confirmed	A*02:99	Unconfirmed	A*02:148	Unconfirmed	A*02:195	Unconfirmed
A*02:56:01	Unconfirmed	A*02:101:01	Unconfirmed	A*02:149	Confirmed	A*02:196	Unconfirmed
A*02:56:02	Unconfirmed	A*02:101:02	Confirmed	A*02:150	Unconfirmed	A*02:197	Confirmed
A*02:57	Unconfirmed	A*02:102	Confirmed	A*02:151	Confirmed	A*02:198	Confirmed
A*02:58	Confirmed	A*02:103	Unconfirmed	A*02:152	Unconfirmed	A*02:199	Confirmed
A*02:59	Unconfirmed	A*02:104	Unconfirmed	A*02:153:01	Confirmed	A*02:200	Confirmed
A*02:60:01	Confirmed	A*02:105	Confirmed	A*02:153:02	Unconfirmed	A*02:201	Unconfirmed
A*02:60:02	Unconfirmed	A*02:106	Unconfirmed	A*02:154	Confirmed	A*02:202	Confirmed
A*02:61	Confirmed	A*02:107	Unconfirmed	A*02:155	Unconfirmed	A*02:203	Confirmed
A*02:62	Unconfirmed	A*02:108	Unconfirmed	A*02:156	Unconfirmed	A*02:204	Unconfirmed
A*02:63	Unconfirmed	A*02:109	Unconfirmed	A*02:157:01	Unconfirmed	A*02:205	Confirmed
A*02:64:01	Confirmed	A*02:110	Confirmed	A*02:157:02	Unconfirmed	A*02:206	Confirmed

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Lot-specific information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:207	Confirmed	A*02:254	Unconfirmed	A*02:303	Unconfirmed	A*02:353	Unconfirmed
A*02:208	Unconfirmed	A*02:255	Unconfirmed	A*02:304	Unconfirmed	A*02:354	Unconfirmed
A*02:209	Unconfirmed	A*02:256	Unconfirmed	A*02:305N	Unconfirmed	A*02:355	Unconfirmed
A*02:210	Unconfirmed	A*02:257	Unconfirmed	A*02:306	Unconfirmed	A*02:356N	Unconfirmed
A*02:211:01	Confirmed	A*02:258	Unconfirmed	A*02:307	Unconfirmed	A*02:357	Unconfirmed
A*02:211:02	Unconfirmed	A*02:259	Confirmed	A*02:308	Unconfirmed	A*02:358	Unconfirmed
A*02:212	Unconfirmed	A*02:260	Confirmed	A*02:309	Unconfirmed	A*02:359	Unconfirmed
A*02:213	Confirmed	A*02:261	Unconfirmed	A*02:310	Unconfirmed	A*02:360	Confirmed
A*02:214	Confirmed	A*02:262	Unconfirmed	A*02:311	Unconfirmed	A*02:361	Unconfirmed
A*02:215	Confirmed	A*02:263	Confirmed	A*02:312	Unconfirmed	A*02:362	Unconfirmed
A*02:216	Unconfirmed	A*02:264	Unconfirmed	A*02:313	Confirmed	A*02:363	Unconfirmed
A*02:217:01	Unconfirmed	A*02:265	Unconfirmed	A*02:314N	Unconfirmed	A*02:364	Unconfirmed
A*02:217:02	Unconfirmed	A*02:266	Unconfirmed	A*02:315	Confirmed	A*02:365	Unconfirmed
A*02:218	Unconfirmed	A*02:267	Confirmed	A*02:316	Unconfirmed	A*02:366N	Unconfirmed
A*02:219	Unconfirmed	A*02:268	Unconfirmed	A*02:317	Unconfirmed	A*02:367	Confirmed
A*02:220	Unconfirmed	A*02:269	Confirmed	A*02:318	Unconfirmed	A*02:368	Unconfirmed
A*02:221	Confirmed	A*02:270	Unconfirmed	A*02:319	Unconfirmed	A*02:369	Unconfirmed
A*02:222N	Unconfirmed	A*02:271	Unconfirmed	A*02:320	Unconfirmed	A*02:370	Unconfirmed
A*02:223N	Confirmed	A*02:272	Unconfirmed	A*02:321N	Unconfirmed	A*02:371	Unconfirmed
A*02:224	Unconfirmed	A*02:273	Unconfirmed	A*02:322	Unconfirmed	A*02:372	Unconfirmed
A*02:225N	Unconfirmed	A*02:274	Unconfirmed	A*02:323	Confirmed	A*02:373N	Unconfirmed
A*02:226N	Unconfirmed	A*02:275	Confirmed	A*02:324	Unconfirmed	A*02:374	Unconfirmed
A*02:227N	Confirmed	A*02:276	Unconfirmed	A*02:325	Confirmed	A*02:375	Unconfirmed
A*02:228	Confirmed	A*02:277	Unconfirmed	A*02:326	Unconfirmed	A*02:376	Unconfirmed
A*02:229	Confirmed	A*02:278	Unconfirmed	A*02:327	Unconfirmed	A*02:377	Confirmed
A*02:230	Confirmed	A*02:279	Unconfirmed	A*02:328	Unconfirmed	A*02:378	Unconfirmed
A*02:231	Unconfirmed	A*02:280	Unconfirmed	A*02:329	Unconfirmed	A*02:379	Unconfirmed
A*02:232	Unconfirmed	A*02:281	Unconfirmed	A*02:330	Confirmed	A*02:380	Confirmed
A*02:233	Confirmed	A*02:282	Unconfirmed	A*02:331	Unconfirmed	A*02:381	Unconfirmed
A*02:234	Unconfirmed	A*02:283	Confirmed	A*02:332	Unconfirmed	A*02:382	Unconfirmed
A*02:235	Confirmed	A*02:284N	Unconfirmed	A*02:333	Unconfirmed	A*02:383	Unconfirmed
A*02:236	Unconfirmed	A*02:285	Unconfirmed	A*02:334	Unconfirmed	A*02:384	Confirmed
A*02:237	Confirmed	A*02:286	Unconfirmed	A*02:335	Unconfirmed	A*02:385	Unconfirmed
A*02:238	Unconfirmed	A*02:287	Unconfirmed	A*02:336	Unconfirmed	A*02:386	Unconfirmed
A*02:239	Unconfirmed	A*02:288	Unconfirmed	A*02:337	Unconfirmed	A*02:387	Unconfirmed
A*02:240	Unconfirmed	A*02:289:01	Confirmed	A*02:338	Confirmed	A*02:388	Unconfirmed
A*02:241	Unconfirmed	A*02:289:02	Unconfirmed	A*02:339	Unconfirmed	A*02:389	Unconfirmed
A*02:242	Confirmed	A*02:290	Unconfirmed	A*02:340	Unconfirmed	A*02:390	Confirmed
A*02:243:01	Unconfirmed	A*02:291	Confirmed	A*02:341	Unconfirmed	A*02:391	Confirmed
A*02:243:02	Unconfirmed	A*02:292	Unconfirmed	A*02:342	Confirmed	A*02:392	Confirmed
A*02:244	Unconfirmed	A*02:293Q	Unconfirmed	A*02:343	Confirmed	A*02:393	Confirmed
A*02:245	Confirmed	A*02:294	Unconfirmed	A*02:344	Confirmed	A*02:394	Confirmed
A*02:246	Confirmed	A*02:295	Unconfirmed	A*02:345	Unconfirmed	A*02:395N	Unconfirmed
A*02:247	Unconfirmed	A*02:296	Unconfirmed	A*02:346	Unconfirmed	A*02:396	Unconfirmed
A*02:248	Unconfirmed	A*02:297	Unconfirmed	A*02:347	Unconfirmed	A*02:397	Unconfirmed
A*02:249	Unconfirmed	A*02:298	Unconfirmed	A*02:348	Confirmed	A*02:398	Unconfirmed
A*02:250N	Unconfirmed	A*02:299	Confirmed	A*02:349	Unconfirmed	A*02:399	Unconfirmed
A*02:251	Confirmed	A*02:300	Unconfirmed	A*02:350N	Confirmed	A*02:400	Unconfirmed
A*02:252	Unconfirmed	A*02:301N	Unconfirmed	A*02:351	Confirmed	A*02:401	Unconfirmed
A*02:253	Unconfirmed	A*02:302	Unconfirmed	A*02:352	Unconfirmed	A*02:402	Unconfirmed

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **8H9**

Lot-specific information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:403	Unconfirmed	A*02:453	Unconfirmed	A*02:502	Unconfirmed	A*02:551	Unconfirmed
A*02:404	Confirmed	A*02:454	Unconfirmed	A*02:503	Unconfirmed	A*02:552	Unconfirmed
A*02:405	Unconfirmed	A*02:455	Unconfirmed	A*02:504	Unconfirmed	A*02:553	Confirmed
A*02:406	Confirmed	A*02:456	Unconfirmed	A*02:505	Unconfirmed	A*02:554	Unconfirmed
A*02:407	Confirmed	A*02:457	Unconfirmed	A*02:506N	Unconfirmed	A*02:555	Unconfirmed
A*02:408	Unconfirmed	A*02:458	Unconfirmed	A*02:507	Unconfirmed	A*02:556	Unconfirmed
A*02:409	Confirmed	A*02:459	Unconfirmed	A*02:508	Unconfirmed	A*02:557	Unconfirmed
A*02:410	Unconfirmed	A*02:460	Confirmed	A*02:509	Unconfirmed	A*02:558	Unconfirmed
A*02:411	Unconfirmed	A*02:461	Unconfirmed	A*02:510	Unconfirmed	A*02:559	Unconfirmed
A*02:412	Unconfirmed	A*02:462	Unconfirmed	A*02:511	Unconfirmed	A*02:560	Unconfirmed
A*02:413	Unconfirmed	A*02:463	Unconfirmed	A*02:512	Unconfirmed	A*02:561	Unconfirmed
A*02:414	Unconfirmed	A*02:464	Unconfirmed	A*02:513	Unconfirmed	A*02:562	Unconfirmed
A*02:415	Unconfirmed	A*02:465	Unconfirmed	A*02:514N	Unconfirmed	A*02:563	Unconfirmed
A*02:416	Unconfirmed	A*02:466	Unconfirmed	A*02:515	Unconfirmed	A*02:564	Confirmed
A*02:417	Unconfirmed	A*02:467	Unconfirmed	A*02:516N	Unconfirmed	A*02:565	Unconfirmed
A*02:418	Unconfirmed	A*02:468:01N	Unconfirmed	A*02:517	Unconfirmed	A*02:566	Unconfirmed
A*02:419	Confirmed	A*02:468:02N	Unconfirmed	A*02:518	Unconfirmed	A*02:567	Unconfirmed
A*02:420	Unconfirmed	A*02:469	Unconfirmed	A*02:519	Unconfirmed	A*02:568	Unconfirmed
A*02:421	Unconfirmed	A*02:470	Unconfirmed	A*02:520	Unconfirmed	A*02:569	Unconfirmed
A*02:422	Unconfirmed	A*02:471	Unconfirmed	A*02:521	Unconfirmed	A*02:570	Unconfirmed
A*02:423	Unconfirmed	A*02:472	Unconfirmed	A*02:522	Unconfirmed	A*02:571	Unconfirmed
A*02:424	Unconfirmed	A*02:473	Unconfirmed	A*02:523	Unconfirmed	A*02:572	Unconfirmed
A*02:425	Unconfirmed	A*02:474	Unconfirmed	A*02:524:01	Unconfirmed	A*02:573	Unconfirmed
A*02:426	Confirmed	A*02:475	Unconfirmed	A*02:524:02	Unconfirmed	A*02:574	Unconfirmed
A*02:427	Unconfirmed	A*02:476N	Unconfirmed	A*02:525N	Unconfirmed	A*02:575	Unconfirmed
A*02:428	Unconfirmed	A*02:477	Unconfirmed	A*02:526	Unconfirmed	A*02:576	Unconfirmed
A*02:429	Confirmed	A*02:478	Unconfirmed	A*02:527	Unconfirmed	A*02:577	Unconfirmed
A*02:430	Unconfirmed	A*02:479	Unconfirmed	A*02:528	Confirmed	A*02:578	Unconfirmed
A*02:431	Unconfirmed	A*02:480	Unconfirmed	A*02:529	Unconfirmed	A*02:579	Unconfirmed
A*02:432	Unconfirmed	A*02:481	Confirmed	A*02:530	Unconfirmed	A*02:580	Confirmed
A*02:433	Confirmed	A*02:482	Unconfirmed	A*02:531	Unconfirmed	A*02:581	Unconfirmed
A*02:434	Confirmed	A*02:483	Unconfirmed	A*02:532	Unconfirmed	A*02:582	Unconfirmed
A*02:435	Unconfirmed	A*02:484	Unconfirmed	A*02:533	Unconfirmed	A*02:583	Unconfirmed
A*02:436	Confirmed	A*02:485	Unconfirmed	A*02:534	Unconfirmed	A*02:584	Unconfirmed
A*02:437	Confirmed	A*02:486	Confirmed	A*02:535	Unconfirmed	A*02:585	Unconfirmed
A*02:438	Unconfirmed	A*02:487	Unconfirmed	A*02:536	Unconfirmed	A*02:586	Unconfirmed
A*02:439N	Unconfirmed	A*02:488	Unconfirmed	A*02:537	Unconfirmed	A*02:587	Confirmed
A*02:440Q	Unconfirmed	A*02:489	Confirmed	A*02:538	Unconfirmed	A*02:588	Unconfirmed
A*02:441	Unconfirmed	A*02:490N	Unconfirmed	A*02:539	Unconfirmed	A*02:589	Unconfirmed
A*02:442	Unconfirmed	A*02:491	Unconfirmed	A*02:540N	Unconfirmed	A*02:590	Unconfirmed
A*02:443	Unconfirmed	A*02:492	Unconfirmed	A*02:541	Confirmed	A*02:591	Confirmed
A*02:444	Unconfirmed	A*02:493	Unconfirmed	A*02:542	Confirmed	A*02:592	Unconfirmed
A*02:445	Unconfirmed	A*02:494	Unconfirmed	A*02:543	Unconfirmed	A*02:593	Unconfirmed
A*02:446	Unconfirmed	A*02:495	Unconfirmed	A*02:544	Unconfirmed	A*02:594	Unconfirmed
A*02:447	Unconfirmed	A*02:496	Unconfirmed	A*02:545	Unconfirmed	A*02:595	Unconfirmed
A*02:448	Unconfirmed	A*02:497	Unconfirmed	A*02:546	Unconfirmed	A*02:596	Unconfirmed
A*02:449	Unconfirmed	A*02:498	Unconfirmed	A*02:547	Unconfirmed	A*02:597	Confirmed
A*02:450	Unconfirmed	A*02:499	Unconfirmed	A*02:548	Unconfirmed	A*02:598	Unconfirmed
A*02:451	Unconfirmed	A*02:500Q	Unconfirmed	A*02:549	Unconfirmed	A*02:599	Unconfirmed
A*02:452	Unconfirmed	A*02:501N	Unconfirmed	A*02:550	Unconfirmed	A*02:600	Unconfirmed

101.412-24/04 – including *Taq* polymerase, IFU-01 Visit <https://labproducts.caredx.com> for
101.412-24u/04u – without *Taq* polymerase, IFU-02 “Instructions for Use” (IFU)

Lot No.: **8H9**

Lot-specific information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*02:601	Unconfirmed	A*02:611	Unconfirmed	A*02:621	Unconfirmed	A*02:631	Unconfirmed
A*02:602	Unconfirmed	A*02:612	Unconfirmed	A*02:622N	Unconfirmed	A*02:632	Unconfirmed
A*02:603	Unconfirmed	A*02:613	Unconfirmed	A*02:623	Unconfirmed	A*02:633	Unconfirmed
A*02:604	Unconfirmed	A*02:614	Unconfirmed	A*02:624	Unconfirmed	A*02:634	Unconfirmed
A*02:605Q	Unconfirmed	A*02:615	Unconfirmed	A*02:625	Unconfirmed		
A*02:606	Unconfirmed	A*02:616	Unconfirmed	A*02:626	Unconfirmed		
A*02:607	Unconfirmed	A*02:617	Unconfirmed	A*02:627	Unconfirmed		
A*02:608N	Unconfirmed	A*02:618Q	Unconfirmed	A*02:628	Unconfirmed		
A*02:609	Unconfirmed	A*02:619	Unconfirmed	A*02:629	Unconfirmed		
A*02:610	Unconfirmed	A*02:620	Unconfirmed	A*02:630	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2016-July-14, release 3.25.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-A*02 homo- and heterozygotes is available upon request.

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **8H9**

Lot-specific information
SPECIFICITY TABLE

HLA-A*02 SSP subtyping

Specificities and sizes of the PCR products of the 95+1 primer mixes used for HLA-A*02 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-A*02 alleles ³	Other amplified HLA-A alleles
1 ¹⁰	360 bp	800 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:01:86, 02:01:88 ^w , 02:01:89-02:01:90, 02:01:92-02:01:117, 02:01:119-02:06:27, 02:08-02:09:01:02, 02:12-02:14, 02:16, 02:19-02:22:02, 02:24:01-02:32N, 02:34, 02:36-02:38, 02:40:01-02:46, 02:49-02:68, 02:70-02:77, 02:79:01-02:80, 02:82N-02:86:02, 02:88N-02:89:02, 02:91-02:97:02, 02:99, 02:101:01-02:102, 02:104-02:107, 02:109, 02:111, 02:113:01N-02:123, 02:125N-02:127, 02:131:01-02:135, 02:137-02:145, 02:147, 02:149-02:190, 02:192-02:211:01, 02:212-02:218, 02:220-02:241, 02:243:01-02:243:03, 02:245-02:246, 02:248-02:249, 02:251-02:254, 02:256-02:260, 02:262-02:264, 02:266-02:267, 02:269-02:281, 02:283-02:296, 02:299, 02:301N-02:302, 02:304-02:307, 02:309-02:316, 02:318, 02:320-02:330, 02:332-02:334, 02:336-02:346, 02:348-02:350N, 02:352-02:360, 02:362-02:368, 02:370-02:397, 02:399-02:402, 02:404-02:407, 02:409-02:417, 02:418 ^w , 02:419:01-02:421, 02:423-02:425, 02:427-02:428, 02:430-02:431, 02:433-02:436, 02:438-02:448, 02:454-02:456, 02:458-02:459, 02:461-02:473, 02:475-02:476N, 02:480-02:489, 02:491-02:493, 02:495-02:502, 02:504-02:512, 02:515, 02:516N ^w , 02:517-02:539, 02:542-02:543, 02:545, 02:547-02:553, 02:555-02:565, 02:568-02:570:02, 02:572-02:574, 02:576-02:578, 02:581-02:582, 02:585, 02:587-02:588, 02:590-02:593, 02:596-02:603, 02:605Q ^w , 02:606-02:616, 02:618Q-02:621, 02:623-02:627, 02:629, 02:631-02:643N, 02:645-02:651, 02:653-02:656, 02:658-02:677, 02:679, 02:681-02:700, 02:703-02:704, 02:706-02:713, 02:715N-02:720, 02:722-02:727, 02:729-02:737, 02:739-02:740, 02:742-02:748N, 02:750, 02:752-02:753, 02:755-02:756, 02:758-02:763, 02:765-02:770, 02:772, 02:774-02:777, 02:779-02:786, 02:788N-02:803N, 02:806N-02:807N,	*01:104, 01:134, 01:229, 03:09, 03:89:01-03:89:02, 03:108, 03:172, 03:198, 11:06, 11:18, 11:312, 25:11, 26:03:01, 26:06, 26:21, 26:30, 26:36, 26:78, 26:92, 26:111, 26:146, 26:177, 29:19, 29:74, 30:13, 30:16, 30:44, 30:46, 30:127, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06, 74:21, 80:01:01:01 ^w

101.412-24/04 – including *Taq* polymerase, IFU-01
101.412-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **8H9**

Lot-specific information

			02:809-02:814, 02:816-02:820, 02:823-02:828, 02:830-02:835, 02:837
2	240 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:04, 02:07:01-02:07:12, 02:09:01:01-02:09:01:02, 02:12-02:13, 02:15N-02:20:02, 02:22:01:01-02:22:02, 02:24:01-02:27, 02:29-02:34, 02:36-02:40:02, 02:42:01-02:43N, 02:45-02:47, 02:49-02:50, 02:52-02:53N, 02:55-02:56:02, 02:58-02:60:02, 02:62-02:68, 02:70-02:71, 02:73-02:75, 02:77, 02:80, 02:82N-02:83N, 02:85-02:86:02, 02:88N-02:89:02, 02:92-02:97:02, 02:101:01-02:105, 02:107, 02:109-02:111, 02:113:01N-02:121, 02:123, 02:125N, 02:130-02:135, 02:138-02:141, 02:145, 02:147-02:153:02, 02:155-02:168, 02:171:01-02:171:02, 02:173-02:177, 02:181-02:228, 02:230-02:231, 02:233-02:242, 02:245-02:246, 02:249-02:258, 02:260-02:270, 02:272-02:277, 02:279-02:285, 02:287-02:289:02, 02:291-02:294, 02:296, 02:299, 02:301N-02:307, 02:309, 02:311-02:318, 02:320-02:323, 02:325-02:327, 02:329, 02:332, 02:334-02:336, 02:338-02:343, 02:345-02:354, 02:356N-02:357, 02:360-02:365, 02:367-02:372, 02:374-02:375, 02:377-02:381, 02:383-02:386, 02:388-02:397, 02:399-02:403, 02:406-02:408, 02:410-02:412, 02:414, 02:416-02:418, 02:422-02:427, 02:429-02:432, 02:434-02:437, 02:439N-02:452, 02:455-02:456, 02:458-02:464, 02:466-02:469, 02:477-02:483, 02:485-02:488, 02:491-02:492, 02:498-02:502, 02:504-02:505, 02:508-02:513, 02:515-02:526, 02:528:01-02:531, 02:533, 02:535-02:545, 02:547-02:548, 02:551-02:557, 02:559-02:570:02, 02:573-02:576, 02:578, 02:581-02:583, 02:585-02:588, 02:590, 02:594-02:601, 02:603-02:622N, 02:624, 02:628-02:629, 02:632-02:643N, 02:645, 02:647-02:654, 02:656-02:665, 02:667-02:669, 02:671, 02:673-02:675N, 02:677-02:696N, 02:699-02:700, 02:702-02:704, 02:706-02:713, 02:716-02:717, 02:719-02:722, 02:724, 02:726, 02:728-02:730, 02:732-02:736, 02:739-02:740, 02:742-02:746, 02:748N, 02:750, 02:752-02:753, 02:755-02:756, 02:758, 02:761-02:765, 02:769-02:772, 02:774-02:777, 02:779-02:789N, 02:792N-02:799, 02:802-02:804, 02:806N, 02:809-02:812, 02:816, 02:819-02:820, 02:822-02:828, 02:830-02:835
			*01:134, 01:229, 03:01:69, 03:09, 03:89:01-03:89:02, 03:108, 03:172, 03:198, 03:330N, 74:01:05, 74:06, 74:21
3 ⁵	175 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:03:08, *68:02:01:01-68:02:15, 68:15, 68:18N, 68:23, 68:27:01-68:28, 68:31,

101.412-24/04 – including *Taq* polymerase, IFU-01
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **8H9**

Lot-specific information

			02:05:01:01-02:16, 02:18, 02:20:01-02:22:02, 02:24:01-02:38, 02:40:01-02:43N, 02:45-02:56:02, 02:58-02:64:02, 02:66-02:78, 02:80-02:85, 02:87-02:97:02, 02:99, 02:101:01-02:107, 02:109, 02:111-02:134, 02:136-02:148, 02:150:01-02:151, 02:153:01- 02:155, 02:157:01-02:189, 02:191-02:193, 02:195-02:223N, 02:225N-02:267, 02:269- 02:299, 02:301N-02:302, 02:304-02:308, 02:310-02:333, 02:335-02:337, 02:339- 02:370, 02:372-02:399, 02:401-02:407, 02:409-02:435, 02:437, 02:439N-02:525N, 02:527-02:557, 02:559-02:562, 02:564- 02:616, 02:618Q, 02:620-02:656, 02:658- 02:663, 02:665-02:679, 02:681-02:709, 02:711-02:733, 02:735, 02:737-02:803N, 02:805Q-02:828, 02:830-02:835, 02:837	68:34, 68:40, 68:48, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77- 68:78, 68:80-68:82, 68:86, 68:92, 68:97, 68:105, 68:110, 68:124-68:125, 68:128, 68:138, 68:140, 68:147, 68:153, 68:160, 68:163, 68:169-68:170, 68:174, 68:178, 68:184, 68:186-68:187, 68:193, 68:198, 68:201, 69:01:01:01-69:05
4 ⁴	80 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:18-02:01:19, 02:01:21-02:01:51, 02:01:53-02:01:62, 02:01:64-02:01:73, 02:01:75-02:01:81, 02:01:83-02:01:112, 02:01:114-02:01:127, 02:01:129-02:01:162, 02:03:01-02:04, 02:06:01:01-02:06:11, 02:06:13-02:06:19, 02:06:21-02:07:12, 02:09:01:01-02:13, 02:15N-02:22:02, 02:24:01-02:35:01, 02:35:03-02:44, 02:45 ^w , 02:46, 02:49, 02:51- 02:54, 02:56:01 ^w , 02:57-02:62, 02:64:01- 02:77, 02:78 ^w , 02:79:01-02:97:02, 02:99, 02:101:01-02:102, 02:104-02:114, 02:116- 02:121, 02:123-02:128, 02:130-02:143, 02:145-02:153:02, 02:156-02:168, 02:170- 02:171:02, 02:173-02:175, 02:177-02:178, 02:180-02:184, 02:187-02:194, 02:196- 02:204, 02:207-02:208, 02:210-02:228, 02:230-02:231, 02:233-02:270, 02:272- 02:285, 02:287-02:314N, 02:316-02:319, 02:322-02:323, 02:325-02:336, 02:338- 02:343, 02:345-02:358, 02:360-02:371, 02:374-02:375, 02:377, 02:379-02:381, 02:383-02:412, 02:415-02:420, 02:422- 02:432, 02:434-02:481, 02:483, 02:485- 02:488, 02:490N-02:491, 02:493-02:494, 02:497-02:503, 02:505-02:506N, 02:508- 02:516N, 02:518-02:526, 02:528:01-02:530, 02:533-02:545, 02:547-02:570:02, 02:573- 02:576, 02:578-02:590, 02:591:02-02:592, 02:594-02:600, 02:602, 02:604-02:622N, 02:624-02:625, 02:627-02:630, 02:632- 02:635, 02:637-02:642, 02:645, 02:647- 02:654, 02:656-02:666, 02:668-02:669, 02:671-02:675N, 02:677-02:696N, 02:698- 02:708, 02:710N-02:716, 02:718-02:728, 02:730, 02:732-02:733, 02:735-02:755, 02:757-02:765, 02:767-02:777, 02:779- 02:789N, 02:792N-02:798, 02:801-02:806N,	*01:01:68 ^w , 01:69:02 ^w , 01:83:02, 03:01:03 ^w , 03:23:01, 03:89:01, 03:198, 11:70:02, 11:121, 23:01:21, 24:02:76, 24:310:02, 26:07:02, 29:02:23, 29:48, 33:01:02, 33:08-33:09, 68:01:41, 68:30, 74:04

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			02:808-02:816, 02:819-02:825, 02:827Q-02:828, 02:830-02:835	
5⁴	125 bp	1070 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:01:162, 02:04, 02:06:01:01-02:07:12, 02:09:01:01-02:11:09, 02:14-02:18, 02:20:01-02:21, 02:25-02:26, 02:28-02:36, 02:39-02:43N, 02:45-02:46, 02:48, 02:51-02:53N, 02:55-02:62, 02:64:01-02:64:02, 02:66-02:67, 02:68 ^w , 02:69-02:97:02, 02:99, 02:101:01-02:101:02, 02:103, 02:105-02:114, 02:116, 02:118-02:121, 02:123-02:134, 02:138-02:141, 02:143-02:147, 02:149-02:151, 02:153:01-02:153:02, 02:156-02:171:02, 02:173-02:178, 02:180-02:181, 02:183-02:185, 02:187-02:190, 02:192-02:208, 02:210-02:221, 02:223N-02:225N, 02:227N-02:228, 02:231, 02:233-02:252, 02:254-02:257, 02:259-02:263, 02:265-02:266, 02:268-02:270, 02:272-02:273, 02:275-02:279, 02:282-02:285, 02:287-02:308, 02:310-02:314N, 02:316-02:319, 02:321N-02:322, 02:325-02:336, 02:338-02:343, 02:346-02:354, 02:356N-02:358, 02:360-02:369, 02:371-02:372, 02:374-02:375, 02:377-02:381, 02:383-02:401, 02:404-02:411, 02:414-02:416, 02:418-02:420, 02:422-02:426, 02:428-02:430, 02:432, 02:434-02:438, 02:440Q-02:446, 02:448-02:462, 02:464-02:465, 02:467-02:479, 02:481-02:483, 02:485-02:488, 02:490N-02:491, 02:493-02:494, 02:497-02:502, 02:504, 02:506N, 02:508-02:516N, 02:518-02:526, 02:528:01-02:528:02, 02:530, 02:533-02:542, 02:545, 02:547-02:556, 02:558-02:567, 02:569-02:571, 02:573-02:576, 02:578-02:581, 02:583-02:590, 02:592, 02:594, 02:596-02:600, 02:602-02:611, 02:613-02:625, 02:627-02:629, 02:632, 02:635, 02:637-02:640, 02:642, 02:644-02:645, 02:647-02:650, 02:652-02:654, 02:656-02:661, 02:663-02:665, 02:668-02:669, 02:671-02:675N, 02:677-02:679, 02:681, 02:685-02:692, 02:695-02:699, 02:701-02:707, 02:710N, 02:712-02:716, 02:718-02:722, 02:724-02:730, 02:732-02:733, 02:735-02:757, 02:759-02:765, 02:767-02:773N, 02:776-02:777, 02:779-02:789N, 02:792N-02:798, 02:800-02:803N, 02:805Q-02:806N, 02:808, 02:810, 02:812-02:816, 02:818-02:825, 02:827Q-02:828, 02:830-02:832N, 02:834-02:835, 02:837	*03:17:01, 03:171, 23:01:01:01-23:01:27, 23:04-23:65, 23:67-23:68, 23:71-23:82, 23:84N-23:93, 24:02:16, 24:13:01-24:13:02, 24:18, 24:24, 24:94, 24:188, 24:207:01-24:207:02, 24:228, 24:315, 24:355, 24:392, 29:101, 30:61, 30:74, 31:67-31:68, 32:28, 32:66, 33:32:01, 68:08:01-68:08:02, 68:63, 68:157, 68:168, 69:01:01:01-69:02, 69:04-69:05, B*51:136 , C*07:204:01 , C*07:482
6^{4,5}	75 bp	800 bp	*02:02:01:01-02:03:08, 02:05:01:01-02:05:09, 02:08, 02:22:01:01-02:22:02, 02:47, 02:49-02:50, 02:63, 02:102, 02:104, 02:115, 02:117, 02:122, 02:136, 02:148, 02:154-02:155,	*24:138, 68:01:01:01-68:01:13, 68:01:15-68:07, 68:10-68:25, 68:27:01-68:47, 68:49N,

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7⁶	170 bp	1070 bp	*02:02:01:01-02:02:04, 02:05:01:01-02:05:09, 02:08, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376, 02:413, 02:421, 02:433, 02:484, 02:489, 02:492, 02:495-02:496, 02:507, 02:517, 02:531-02:532, 02:540N, 02:542, 02:546, 02:572, 02:577, 02:591:01-02:591:02, 02:593, 02:601, 02:626, 02:636, 02:643N, 02:646, 02:655, 02:667, 02:670, 02:676, 02:709, 02:717, 02:731, 02:734, 02:766, 02:778, 02:790-02:791N, 02:799, 02:807N, 02:817-02:818, 02:826Q	
	210 bp		*02:540N	*31:126N, C*02:38:02N
8	415 bp	1070 bp	*02:02:01:01-02:02:02, 02:02:04, 02:05:01:01-02:05:09, 02:14, 02:47, 02:63, 02:102, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376, 02:413, 02:421, 02:433, 02:484, 02:489, 02:492, 02:495-02:496, 02:507, 02:517, 02:531- 02:532, 02:546, 02:572, 02:577, 02:591:01- 02:591:02, 02:593, 02:601, 02:626, 02:636, 02:643N, 02:646, 02:655, 02:667, 02:670, 02:676, 02:709, 02:717, 02:731, 02:734, 02:766, 02:778, 02:790-02:791N, 02:799, 02:807N, 02:817-02:818, 02:826Q	
	505 bp		*02:32N	
9⁴	105 bp	1070 bp	*02:03:01-02:03:08, 02:25, 02:38, 02:117, 02:148, 02:171:01-02:171:02, 02:230, 02:253, 02:258, 02:264, 02:267, 02:280-02:281, 02:315, 02:345, 02:355, 02:370, 02:412, 02:427, 02:431, 02:447, 02:463, 02:466, 02:480, 02:505, 02:529, 02:544, 02:557,	*24:99, 26:10, 68:184

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10⁴	115 bp	800 bp	02:568, 02:595, 02:612, 02:633-02:634, 02:641, 02:666, 02:684, 02:711, 02:774- 02:775N, 02:809, 02:833N *02:03:01-02:03:08, 02:13, 02:26, 02:38, 02:99, 02:117, 02:148, 02:171:01-02:171:02, 02:230, 02:253, 02:258, 02:264, 02:280- 02:281, 02:315, 02:323, 02:345, 02:355, 02:370, 02:393, 02:402, 02:412, 02:427, 02:431, 02:447, 02:463, 02:466, 02:480, 02:489, 02:505, 02:529, 02:541, 02:544, 02:557, 02:568, 02:589, 02:592, 02:595, 02:612, 02:619, 02:633-02:634, 02:641, 02:666, 02:684, 02:711, 02:774-02:775N, 02:782, 02:809, 02:833N	*03:17:01, 24:18, 24:56, 24:177, 24:355, 24:367, 24:381, 26:10, 68:42, 68:54, 68:61, 68:63, 68:183, 68:204, B*51:136, C*12:37
11^{6,7,8}	135 bp 225 bp 350 bp	1070 bp	*02:506N *02:89:01 *02:04, 02:17:02-02:17:04, 02:57, 02:65, 02:108, 02:110, 02:152, 02:268, 02:300, 02:303, 02:334, 02:617, 02:657, 02:664, 02:680, 02:710N, 02:804	*23:12, 24:28, 24:30, 24:42, 24:89, 24:309, 24:379, 29:19, 29:48, 29:74, 32:08, 33:24, 68:05, 68:20, 74:06, 74:21
12	235 bp	1070 bp	*02:05:01:01-02:06:27, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 02:57, 02:61, 02:72, 02:79:01-02:79:02, 02:84, 02:91, 02:99, 02:106, 02:108, 02:122, 02:126-02:127, 02:137, 02:142-02:144, 02:154, 02:169-02:170, 02:172, 02:178- 02:180, 02:229, 02:232, 02:244, 02:248, 02:259, 02:271, 02:278, 02:286, 02:290, 02:295, 02:300, 02:310, 02:324, 02:328, 02:330, 02:333, 02:337, 02:344, 02:355, 02:358-02:359, 02:373N, 02:376, 02:382, 02:387, 02:398, 02:404-02:405, 02:409, 02:413, 02:415, 02:419:01-02:421, 02:428, 02:433, 02:438, 02:453-02:454, 02:465, 02:470-02:476N, 02:484, 02:489, 02:493, 02:495-02:496, 02:506N-02:507, 02:527, 02:532, 02:546, 02:549-02:550, 02:558, 02:572, 02:577, 02:591:01-02:593, 02:602, 02:623, 02:625-02:626, 02:630-02:631, 02:646, 02:655, 02:670, 02:672Q, 02:676, 02:697-02:698, 02:718, 02:723, 02:725, 02:727, 02:731, 02:737, 02:759-02:760N, 02:766-02:768, 02:778, 02:790-02:791N, 02:800-02:801, 02:805Q, 02:807N, 02:813- 02:814, 02:817-02:818, 02:837	*11:06, 11:18, 11:312, 26:03:01, 26:06, 26:21, 26:30, 26:78, 26:92, 26:111, 68:05, 68:15, 68:20
13⁷	145 bp	800 bp	*02:05:01:01-02:05:09, 02:08, 02:14, 02:154, 02:172, 02:179, 02:229, 02:232, 02:271, 02:286, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376, 02:382, 02:413, 02:421, 02:433, 02:484, 02:489, 02:495, 02:507, 02:527, 02:532, 02:546, 02:572, 02:577, 02:593, 02:623, 02:626, 02:631, 02:646, 02:655, 02:670, 02:676, 02:731, 02:766, 02:778, 02:790-02:791N, 02:807N, 02:817- 02:818, 02:829	*66:21, 68:135

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14^{4,7}	95 bp 170 bp	800 bp	*02:91, 02:322 *02:07:01-02:07:12, 02:15N, 02:18, 02:103, 02:112, 02:130, 02:191, 02:219, 02:255, 02:261, 02:265, 02:282, 02:319, 02:335, 02:369, 02:403, 02:426, 02:429, 02:432, 02:437, 02:449-02:452, 02:474, 02:477- 02:478, 02:513, 02:541, 02:544, 02:566- 02:567, 02:575, 02:583, 02:586, 02:622N, 02:652, 02:678, 02:721, 02:764, 02:771, 02:787, 02:822	
15^{4,7}	125 bp 265 bp	800 bp	*02:21, 02:186, 02:587, 02:667, 02:764 *02:87, 02:112, 02:129, 02:136, 02:571	*23:01:13, 24:340, B*51:01:58 B*53:01:10
16⁴	305 bp 110 bp	800 bp	*02:96 *02:50, 02:73, 02:93:01-02:93:02, 02:122, 02:156, 02:172, 02:279, 02:594, 02:631, 02:651	*01:88:02-01:88:03, 01:236, 11:119:01- 11:119:02, 11:209, 23:31, 23:45, 23:55, 24:15, 24:41, 24:51, 24:92, 24:235, 26:10, 32:28, 32:66, 68:02:01:01-68:02:15, 68:15, 68:18N, 68:25, 68:27:01-68:28, 68:31, 68:34, 68:40, 68:44, 68:48- 68:49N, 68:51, 68:53- 68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:77-68:78, 68:80-68:82, 68:86, 68:92, 68:97, 68:110, 68:119:01- 68:119:02, 68:124-68:125, 68:128, 68:138, 68:147, 68:153, 68:160, 68:163, 68:169-68:170, 68:174, 68:178, 68:184, 68:186- 68:187, 68:193, 68:198, 68:201, 69:04, B*07:136:02, B*44:59:02, B*44:136, B*51:136, C*07:204:01, C*07:482, C*12:37
	155 bp		*02:09:01:01-02:09:01:02, 02:49, 02:597	
17⁷	205 bp 360 bp	1070 bp	*02:83N *02:10, 02:17:02-02:17:04, 02:39, 02:108, 02:110, 02:148, 02:242, 02:244, 02:268, 02:300, 02:303, 02:398, 02:453, 02:604, 02:617, 02:628, 02:630, 02:657, 02:680, 02:804, 23:12, 24:28, 24:30, 24:42, 24:89, 24:309, 24:379	*23:12, 24:28, 24:30, 24:42, 24:89, 24:309, 24:379
18⁹	175 bp	1070 bp	*02:11:01:01-02:11:01:02, 02:11:03-02:11:09, 02:29, 02:69, 02:128, 02:297-02:298, 02:308, 02:395N, 02:457, 02:490N, 02:494, 02:503, 02:514N, 02:579, 02:584, 02:589, 02:701, 02:705, 02:714, 02:738, 02:751, 02:754,	*33:108

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			02:757, 02:773N, 02:780, 02:808, 02:815, 02:821	
19	225 bp	1070 bp	*02:12-02:13, 02:19, 02:27, 02:37-02:38, 02:44, 02:54, 02:142, 02:280, 02:417, 02:543, 02:630, 02:662, 02:723	*11:288, 24:14:01:01- 24:14:01:04, 24:93, 24:324, 69:03
20⁷	135 bp 170 bp 260 bp 295 bp 320 bp	800 bp	*02:200 *02:229 *02:198 *02:49, 02:682-02:683 *02:672Q	
21	155 bp 220 bp 255 bp	1070 bp	*02:09:01:01-02:09:01:02, 02:49, 02:597 *02:15N, 02:356N *02:291	
22	160 bp	1070 bp	*02:19, 02:36-02:37, 02:54, 02:255, 02:417, 02:723, 02:804	*01:88:02-01:88:03, 01:236, 11:209, 23:01:01:01-23:02, 23:05- 23:42, 23:44-23:68, 23:71- 23:78, 23:80-23:82, 23:84N-23:93, 24:02:01:01-24:02:41, 24:02:43-24:02:69, 24:02:71-24:02:122, 24:04- 24:09N, 24:11N, 24:13:01- 24:15, 24:17, 24:19- 24:20:01:02, 24:23 ^w , 24:24-24:32, 24:34-24:64, 24:66-24:74:02, 24:76- 24:93, 24:95-24:109, 24:111-24:124, 24:126- 24:137, 24:139-24:157, 24:159-24:166, 24:168- 24:203, 24:205-24:206, 24:209, 24:212-24:218, 24:220-24:282, 24:284- 24:288, 24:290-24:298, 24:301-24:314, 24:316- 24:338, 24:341-24:348, 24:350-24:356, 24:358- 24:373, 24:375-24:386, 24:388N-24:389N, 24:391- 24:440, 24:442-24:448N, 33:19, 68:26, 68:65, 68:115, 68:131
23	140 bp 180 bp	800 bp	*02:31, 02:161, 02:360, 02:387 *02:17:02-02:17:04, 02:108, 02:110, 02:268, 02:300, 02:303, 02:617, 02:657, 02:680	*24:94, 24:138, 24:188, 24:228, 24:293
24⁴	75 bp 110 bp	1070 bp	*02:230, 02:459 *02:27, 02:393, 02:541, 02:589, 02:592 02:662, 02:682	*01:88:02-01:88:03, 01:236, 11:119:01- 11:119:02, 24:59, 24:190, 24:210, 24:229, 24:285, 24:395, C*07:204:01, C*07:482
	160 bp		*02:233	*24:219

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Lot-specific information

25⁶	135 bp	1070 bp	*02:16, 02:131:01-02:131:02, 02:226N, 02:487, 02:560, 02:693	24:55, 24:315, 24:374, 68:157, 68:171:02N, B*07:136:02 *24:02:70
	160 bp		*02:283, 02:468:01N	
	190 bp		*02:384	
26⁴	125 bp	800 bp	*02:33	
	165 bp		*02:52	
	260 bp		*02:198	
	305 bp		*02:696N	
27^{4,7}	95 bp	1070 bp	*02:28, 02:155, 02:185, 02:601	*30:13, 30:16, 30:44, 30:46
	140 bp		*02:10, 02:50, 02:52, 02:73, 02:93:01, 02:95, 02:110, 02:114, 02:117, 02:122, 02:156, 02:242, 02:244, 02:279, 02:282, 02:300, 02:304, 02:339, 02:409, 02:453, 02:527, 02:580, 02:582, 02:630-02:631, 02:651, 02:681, 02:743	*03:123:01-03:123:02, 03:171, 11:16, 11:35, 11:57, 11:73, 11:158, 24:131, 24:138, 24:188, 24:218, 29:51, 29:73, 32:109, 68:01:01:01- 68:01:48, 68:02:01:01- 68:02:15, 68:03:01- 68:11N, 68:13:01-68:14, 68:15, 68:16-68:17, 68:18N, 68:19-68:24, 68:25, 68:26, 68:27:01- 68:28, 68:29-68:30, 68:31, 68:32-68:33, 68:34, 68:35- 68:39, 68:40, 68:41- 68:43:02, 68:44, 68:45- 68:47, 68:48, 68:51, 68:52, 68:53-68:54, 68:55:01- 68:59N, 68:60-68:62, 68:63, 68:64, 68:65- 68:66:02, 68:67, 68:68- 68:73, 68:74, 68:75:01- 68:76:02, 68:77-68:78, 68:79, 68:80-68:82, 68:83- 68:85, 68:86, 68:87-68:91, 68:92, 68:93-68:96, 68:97, 68:98-68:109, 68:110, 68:111-68:116, 68:118, 68:119:01-68:119:02, 68:121:01-68:123, 68:124- 68:125, 68:126-68:127, 68:128, 68:130:01- 68:130:02, 68:132-68:137, 68:138, 68:139, 68:140, 68:141-68:146, 68:147, 68:148Q-68:152, 68:153, 68:154-68:159Q, 68:160, 68:161-68:162, 68:163, 68:164-68:168, 68:169- 68:170, 68:171:01N- 68:172, 68:175-68:177, 68:178, 68:179-68:183, 68:184, 68:185, 68:186- 68:187, 68:188-68:192, 68:193, 68:194-68:197, 68:198, 68:199N, 68:201,

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 101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

				68:202-68:204, 68:206-68:210N
28	175 bp		*02:597	
	540 bp		*02:28, 02:155, 02:185, 02:601, 02:705	*68:126
	235 bp	800 bp	*02:08, 02:20:01-02:20:02, 02:55-02:56:02, 02:62, 02:78, 02:103, 02:128, 02:169, 02:195, 02:415, 02:634, 02:644, 02:815, 02:829	*11:199:02, 34:02:04, 68:01:32
29	220 bp	1070 bp	*02:45-02:46, 02:48, 02:56:01 ^w -02:56:02 ^w , 02:78 ^w , 02:92, 02:103 ^w , 02:129, 02:169 ^w , 02:195 ^w , 02:358, 02:369, 02:571, 02:829 ^w	*11:199:02 ^w , 23:01:13, 24:340
30	300 bp		*02:180	
	130 bp	800 bp	*02:163, 02:583, 02:618Q	*03:234Q
31 ^{4,5,7}	160 bp		*02:43N, 02:104	
	210 bp		*02:608N	
	95 bp	800 bp	*02:82N, 02:773N	*23:08N
	220 bp		*02:45, 02:56:01-02:56:02, 02:78, 02:103, 02:169, 02:195, 02:829	*11:199:02
32 ^{4,7}	85 bp	1070 bp	*02:675N	
	120 bp		*02:131:01-02:131:02, 02:691N, 02:820	*01:37:01:01-01:37:01:02, 11:172, 24:155N, 24:438, 26:160, 29:75
33 ^{6,7}	205 bp		*02:176	
	240 bp		*02:46, 02:47, 02:48, 02:70, 02:129, 02:479	
			02:571	
34 ^{4,5,8,11}	155 bp	800 bp	*02:165, 02:168, 02:400, 02:420-02:421	*25:08, 26:47, 66:18
	195 bp		*02:85, 02:757	*01:20, 01:66, 01:73, 01:130, 24:14:01:01-24:14:01:04, 24:52, 24:291, 24:324, 25:36, 26:29, 26:49, 66:10, B*07:64, B*15:12:01-15:12:03, B*15:19, B*15:270, B*15:298, B*15:304N, C*04:95N
	240 bp		*02:19, 02:36-02:37, 02:54, 02:255, 02:417, 02:723, 02:696N	
	120 bp	800 bp	*02:88N, 02:643N	
	170 bp		*02:34-02:35:02, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 02:395N, 02:580, 02:741	*03:01:59, 11:199:02, 30:01:01:01-30:01:12, 30:08:01-30:08:02, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:43, 30:48-30:49, 30:52-30:56, 30:58-30:60, 30:62-30:63, 30:65, 30:72-30:75, 30:78N-30:79, 30:81-30:83, 30:86-30:87, 30:89, 30:91-30:95, 30:97-30:98, 30:102, 30:104, 30:106, 30:109-30:116, 30:118, 30:120, 30:122-30:123N, 30:125-30:126, 30:128-30:132N, 30:134-30:138, 30:140-30:143, 30:145N,

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35⁴	110 bp	1070 bp	*02:40:01-02:40:02, 02:51, 02:130	30:147-30:148, 68:01:11, 68:01:25, 68:02:07, C*03:82 *23:01:01:01-23:01:27, 23:02 ^w , 23:04-23:23, 23:25-23:33, 23:35-23:56, 23:58-23:65, 23:67-23:68, 23:71-23:82, 23:84N- 23:93, 24:24, 24:71, 24:315, 24:392, 29:101, 31:67-31:68, 32:28, 32:66, 33:32:01, 68:51 ^w , 68:168
36⁴	155 bp 85 bp 445 bp	1070 bp	*02:77 *02:94N *02:24:01-02:24:02, 02:65, 02:135, 02:137, 02:152, 02:309, 02:507	*01:104, 01:134, 01:229, 03:09, 03:89:01-03:89:02, 03:108, 03:172, 03:198, 11:06, 11:18, 11:312, 25:11, 26:03:01, 26:06, 26:21, 26:30, 26:36, 26:78, 26:92, 26:111, 26:146, 26:177, 29:19, 29:48, 29:74, 30:13, 30:16, 30:44, 30:46, 30:127, 32:08, 33:24, 74:06, 74:21, 80:01:01:01 ^w
37	145 bp	1070 bp	*02:38, 02:101:01-02:101:02, 02:154, 02:447, 02:543	*01:88:02 ^w -01:88:03 ^w , 01:236 ^w , 11:119:01- 11:119:02, 23:10 ^w , 24:10:01-24:10:02, 24:46 ^w , 24:210, 24:300, 24:340, 26:10, 68:61, 68:134
38⁴	125 bp	800 bp	*02:41, 02:80, 02:117, 02:289:01-02:289:02, 02:304, 02:454 *02:210, 02:217:01, 02:451 *02:351	*32:109
39^{4,5}	195 bp 225 bp 80 bp 170 bp 240 bp 265 bp 300 bp	1070 bp	*02:390 *02:18 *02:153:01-02:153:02, 02:293Q, 02:439N *02:159 *02:170, 02:364	
40^{4,7}	100 bp 220 bp 250 bp	1070 bp	*02:52, 02:67, 02:404, 02:423 *02:40:01-02:40:02 ^w , 02:51, 02:130, 02:500Q *02:153:01-02:153:02	*30:47 *29:22, 31:99, 33:22
41⁷	85 bp 185 bp	1070 bp	*02:675N *02:02:01:01-02:02:04, 02:05:01:01-02:05:09, 02:08, 02:14, 02:17:02-02:17:04, 02:47, 02:57-02:58, 02:63, 02:75, 02:102, 02:108, 02:110, 02:115, 02:154-02:155, 02:172, 02:179, 02:186, 02:209, 02:229, 02:232, 02:271, 02:286, 02:300, 02:303, 02:320, 02:324, 02:337, 02:344, 02:359, 02:373N, 02:376, 02:413, 02:421, 02:433, 02:484, 02:489, 02:492, 02:495-02:496, 02:507, 02:517, 02:527, 02:531-02:532, 02:546,	*24:94, 24:138, 24:188, 24:228, 24:293, B*15:343 , C*01:129, C*04:363 , C*05:125, C*07:386 , C*07:700, C*12:94 , C*14:48

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			02:572, 02:577, 02:591:01-02:591:02, 02:593, 02:601, 02:617, 02:626, 02:631, 02:636, 02:643N, 02:646, 02:655, 02:657, 02:667, 02:670, 02:676, 02:680, 02:709, 02:717, 02:731, 02:766, 02:778, 02:790-02:791N, 02:799, 02:807N, 02:817-02:818, 02:826Q	
42^{6,7}	220 bp 245 bp	800 bp	*02:143, 02:217:01, 02:419:02, 02:217:02, 02:419:01 *02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 02:580, 02:741	
43	180 bp 225 bp	800 bp	*02:71 *02:03:01-02:03:08, 02:22:01:01-02:22:02, 02:49, 02:71, 02:104, 02:117, 02:136, 02:148, 02:191, 02:230, 02:253, 02:258, 02:264, 02:267, 02:281, 02:315, 02:323, 02:345, 02:355, 02:370, 02:382, 02:402, 02:412, 02:427, 02:431, 02:447, 02:463, 02:466, 02:480, 02:505, 02:529, 02:544, 02:557, 02:568, 02:582, 02:595, 02:612, 02:633- 02:634, 02:641, 02:651, 02:666, 02:682- 02:684, 02:711, 02:774-02:775N, 02:809, 02:833N	*26:22, 66:09, 68:83, 68:105, C*02:74
44⁴	125 bp 165 bp 200 bp	800 bp	*02:203 *02:59, 02:220, 02:513, 02:564, 02:602 *02:222N, 02:342	*11:247
45⁴	105 bp 160 bp 185 bp	1070 bp	*02:60:01-02:60:02, 02:254, 02:594 *02:391 *02:19 ^w , 02:39, 02:44 ^w , 02:79:01-02:79:02, 02:86:01-02:86:02, 02:400, 02:408 ^w , 02:436 ^w , 02:619 ^w	*01:20 ^w , 01:66 ^w , 01:130 ^w , 03:95 ^w , 03:343 ^w , 11:288 ^w , 24:14:01:01 ^w -24:14:01:04 ^w , 24:93 ^w , 24:324 ^w
46^{6,7}	270 bp 135 bp 205 bp	1070 bp	*02:501N *02:66 *02:61	
47	165 bp 205 bp 255 bp	800 bp	*02:63 *02:144, 02:205 *02:35:01-02:35:03, 02:48, 02:78, 02:90, 02:331, 02:580, 02:741 *02:207	*11:199:02, 34:02:04, 68:01:32
48⁴	305 bp 110 bp	1070 bp	*02:64:01-02:64:02, 02:177-02:178, 02:412, 02:676, 02:678	
49⁴	115 bp	1070 bp	*02:27, 02:267, 02:283, 02:408, 02:590, 02:662, 02:682	*01:88:02-01:88:03, 01:236, 11:119:01- 11:119:02, 24:59, 24:190, 24:210, 24:229, 24:285, 24:395, C*07:204:01, C*07:482
50	165 bp 145 bp	800 bp	*02:283 *02:01:01:02L	
51	410 bp	1070 bp	*02:65, 02:80, 02:114, 02:117, 02:152, 02:246, 02:279, 02:304, 02:406, 02:527, 02:582, 02:662	*01:104, 01:134, 01:229, 03:09, 03:89:01-03:89:02, 03:108, 03:172, 03:198, 11:06, 11:18, 11:312, 29:19, 29:48, 29:74, 32:08, 33:24, 68:05, 68:20, 74:06, 74:21, 80:01:01:01 ^w

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52	175 bp	800 bp	*02:76:01-02:76:02, 02:220, 02:319, 02:434, 02:666	*23:01:21, 24:02:76, 24:310:02, 30:22
53	215 bp	1070 bp	*02:14, 02:17:02-02:17:04, 02:57-02:58, 02:108, 02:110, 02:300, 02:303, 02:490N, 02:516N, 02:617, 02:657, 02:818	*03:75, 03:269N, 03:347, 23:01:01:01-23:01:15, 23:01:17-23:01:27, 23:03:01-23:13, 23:14:02-23:33, 23:35-23:65, 23:67-23:68, 23:70-23:93, 24:13:01, 24:18, 24:24, 24:94, 24:188, 24:207:01, 24:228, 24:355, 24:392, 29:07, 30:52, 30:80, 30:113, 31:29, 31:60N, 31:146, 32:89, C*06:04:02
54^{6,7}	240 bp 310 bp 350 bp	800 bp	*02:189, 02:190, 02:438 *02:228 *02:74:01-02:74:02, 02:655, 02:783	
55^{4,5}	85 bp 160 bp 205 bp	1070 bp	*02:343 *02:486 *02:01:83, 02:01:105, 02:01:107, 02:01:129, 02:01:138, 02:13, 02:26, 02:40:01-02:40:02, 02:51, 02:99, 02:130, 02:226N, 02:323, 02:393, 02:399, 02:402, 02:541, 02:589, 02:592, 02:619, 02:668, 02:693, 02:699, 02:701, 02:782, 02:801, 02:811 *02:313	*03:95, 03:343, 29:22, 31:99, 33:22, B*08:204, C*02:74
56	265 bp 150 bp 180 bp 275 bp	1070 bp	*02:175, 02:181 *02:173, 02:496 *02:53N, 02:81, 02:124, 02:829	
57^{4,6}	105 bp 145 bp	1070 bp	*02:42:01, 02:310, 02:528:01-02:528:02 *02:160, 02:175	
58	255 bp	800 bp	*02:11:01:01-02:11:09, 02:35:01-02:35:03, 02:48, 02:69, 02:78, 02:90, 02:128, 02:297-02:298, 02:308, 02:331, 02:457, 02:490N, 02:494, 02:503, 02:514N, 02:579-02:580, 02:584, 02:589, 02:701, 02:705, 02:714, 02:738, 02:741, 02:751, 02:754, 02:757, 02:773N, 02:808, 02:815, 02:821	*11:199:02, 34:02:04, 68:01:32
59⁷	145 bp 190 bp 210 bp	800 bp	*02:97:01-02:97:02 *02:305N *02:608N	
60⁷	345 bp	1070 bp	*02:50, 02:65, 02:73, 02:122, 02:135, 02:152, 02:245, 02:334	*25:11, 26:03:01, 26:06, 26:21, 26:30, 26:36, 26:78, 26:92, 26:111, 26:146, 26:177, 29:19, 29:48, 29:74, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06, 74:21
61⁷	185 bp	1070 bp	*02:50, 02:73, 02:122, 02:156, 02:245, 02:334, 02:338	*03:123:01-03:123:02, 03:171, 11:16, 11:35, 11:57, 11:73, 11:158, 29:51, 29:73, 32:109, 68:01:01:01-68:11N, 68:13:01-68:43:02, 68:45-68:48, 68:51-68:82, 68:84-68:104:02,

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				68:106-68:116, 68:118-68:128, 68:130:01-68:130:02, 68:132-68:144, 68:146-68:199N, 68:201-68:210N
62	180 bp	800 bp	*02:69, 02:179, 02:614, 02:625, 02:651, 02:822	*68:01:01:01-68:32, 68:34-68:95, 68:97-68:163, 68:165-68:189, 68:191-68:210N
63⁴	60 bp	800 bp	*02:25, 02:171:02	*03:248, 25:19:01-25:19:02, 25:30, 26:43:01, 31:113, 34:02:01:01-34:02:01:02, 34:02:03-34:02:04, 34:04, 34:07-34:10N, 34:13, 34:15, 34:20-34:21, 66:06 *03:51:01-03:51:02, 23:60, 30:37, 31:122, 32:46, B*44:03:47
	95 bp 155 bp 210 bp		*02:259, 02:524:01-02:524:02 *02:105, 02:301N *02:490N, 02:516N, 02:540N, 02:605Q	*03:269N, 31:60N, 31:126N
64⁴	125 bp 180 bp	1070 bp	*02:106, 02:145 *02:221	*24:72 *01:44, 01:129, 02:187, 02:164:01, 02:392, 02:564, 02:593, 03:44:01, 03:341, 11:196, 11:201, 23:41, 24:245, 24:286, 29:15, 29:108, 31:78
	260 bp		*02:187	
65⁷	150 bp 185 bp 250 bp	1070 bp	*02:160, 02:251, 02:391, 02:486 *02:107 *02:202, 02:437, 02:440Q, 02:500Q, 02:581	
66	170 bp 200 bp	800 bp	*02:109, 02:434, 02:709 *02:30:01-02:30:02, 02:547, 02:598	
67⁴	100 bp 140 bp 180 bp 300 bp	800 bp	*02:91, 02:177, 02:322 *02:111, 02:407, 02:449, 02:460 *02:210, 02:330, 02:451, 02:679 *02:350N	
68	210 bp 255 bp	1070 bp	*02:113:01N-02:113:02N, 02:321N *02:158, 02:184	
69	170 bp 225 bp 335 bp	1070 bp	*02:114, 02:246, 02:279, 02:527, 02:582, 02:662 *02:260 *02:166	
70⁴	125 bp 180 bp 285 bp	800 bp	*02:115 *02:133, 02:367, 02:487 *02:53N, 02:192, 02:269, 02:433	
71⁷	210 bp	800 bp	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:37, 02:01:39-02:01:81, 02:01:83-02:22:02, 02:24:01-02:29, 02:31-02:44, 02:45 ^w , 02:46-02:47, 02:49-02:54, 02:56:01 ^w , 02:57-02:77, 02:78 ^w , 02:79:01-02:97:02, 02:99, 02:101:01-02:102,	*01:01:68 ^w , 01:69:02 ^w , 01:83:01-01:83:02, 03:01:03 ^w , 03:23:01-03:23:02, 03:89:01-03:89:02, 03:198, 11:70:01-11:70:02, 11:121,

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72^{4,7}	120 bp 240 bp	1070 bp	*02:183, 02:691N *02:19, 02:44, 02:118, 02:135, 02:149, 02:152, 02:190, 02:309, 02:402, 02:408, 02:417, 02:436, 02:438, 02:619, 02:723, 02:782, 02:804, 02:829	*24:155N
73^{4,6}	80 bp 120 bp 200 bp 250 bp	800 bp	*02:263 *02:380, 02:528:01-02:528:02, 02:553 *02:119 *02:146, 02:158, 02:644	*03:52, 30:109, 31:19
74	175 bp	800 bp	*02:120, 02:549	B*51:01:34, B*58:01:24, B*78:01:02
75^{4,7}	250 bp 100 bp 165 bp 200 bp	1070 bp	*02:187, 02:223N *02:373N *02:166 *02:121, 02:384, 02:425, 02:517, 02:562	*68:49N *24:350 *23:47, 24:102, 24:234, 24:339, 24:347:02, 68:14, 68:81, 68:158, C*12:37^w
76⁴	115 bp 190 bp 225 bp	800 bp	*02:68 *02:342, 02:392, 02:593 *02:50, 02:122, 02:143, 02:225N, 02:556	*03:341, 11:247, 24:245
77^{4,6}	80 bp 115 bp 260 bp	800 bp	*02:123, 02:295, 02:344 *02:162, 02:525N *02:366N	
78⁴	80 bp 130 bp 240 bp 545 bp	1070 bp	*02:193, *02:84, 02:213, 02:495 *02:124 *02:01:14Q	*01:01:38L, 24:02:03Q, 33:03:03Q
79^{4,7}	110 bp 150 bp 200 bp 225 bp 270 bp	800 bp	*02:476N, 02:525N *02:437, 02:581 *02:227N *02:125N, 02:217:02, 02:419:01 *02:53N, 02:146, 02:192, 02:433, 02:644, 02:749 *02:184	
80⁴	85 bp 135 bp 230 bp 545 bp	1070 bp	*02:214 *02:194, 02:558 *02:126 *02:01:14Q	*01:01:38L, 24:02:03Q, 33:03:03Q
81^{4,6}	110 bp 235 bp 310 bp	800 bp	*02:183 *02:165, 02:400, 02:420-02:421 *02:127, 02:167, 02:299, 02:477	

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Lot-specific information

82	225 bp 255 bp 295 bp 390 bp	1070 bp	*02:481 *02:291 *02:199 *02:514N	
83⁴	100 bp 125 bp 205 bp 240 bp	800 bp	*02:132 *02:215, 02:429, 02:467 *02:85, 02:757 *02:132, 02:237, 02:313, 02:440Q, 02:500Q, 02:809 *02:313	*03:95, 03:343
84^{4,6}	265 bp 125 bp 180 bp 205 bp 250 bp	800 bp	*02:618Q *02:133, 02:164:01, 02:173, 02:487, 02:496 *02:315 *02:250N, 02:348, 02:394	*03:234Q *01:44, 03:44:01, 29:108
85	170 bp 215 bp 260 bp	800 bp	*02:314N, 02:376, 02:542, 02:622N *02:481, 02:605Q *02:134	*03:197N, 32:48N
86	180 bp 255 bp 310 bp	800 bp	*02:135, 02:309, 02:454 *02:174 *02:228	
87^{4,6}	110 bp 150 bp 210 bp 260 bp 305 bp	800 bp	*02:380 *02:138, 02:181 *02:284N *02:394 *02:498	*03:52, 30:109, 31:19
88⁶	135 bp 250 bp 305 bp	800 bp	*02:188, 02:235 *02:34, 02:56:01-02:56:02, 02:62, 02:103, 02:139, 02:366N *02:498	B*15:67, B*15:343, B*35:110, B*58:77, C*07:386, C*07:700, C*12:94, C*14:48
89^{4,7}	120 bp 155 bp 200 bp	800 bp	*02:140, 02:182, 02:821 *02:324, 02:426, 02:468:01N-02:468:02N *02:227N, 02:562	*24:133, 26:99, 29:130, 31:48, 33:15 *24:02:70, 31:125 *24:102
90⁴	100 bp 130 bp 190 bp 255 bp	800 bp	*02:72, 02:206, 02:275, 02:377, 02:641 *02:161 *02:141 *02:01:02, 02:05:07, 02:06:05, 02:06:09, 02:50, 02:76:02, 02:122, 02:243:03, 02:591:01, 02:666	*01:134, 01:229, 03:09, 03:89:02, 03:108, 03:172, 03:198, 03:330N, 11:06, 11:18, 11:312, 26:03:01, 26:06, 26:21, 26:30, 26:78, 26:92, 26:177, 29:19, 29:48, 30:13, 30:16, 30:44, 30:46, 33:24, 68:05, 68:15, 68:20, 74:06, 74:21, C*06:247
91^{4,7}	115 bp	800 bp	*02:50, 02:73, 02:93:01-02:93:02, 02:122, 02:156, 02:162, 02:172, 02:211:01-02:211:02, 02:279, 02:594, 02:631, 02:651, 02:817	*01:88:02-01:88:03, 01:236, 11:119:01- 11:119:02, 11:209, 23:31, 23:45, 23:55, 24:15, 24:41, 24:51, 24:92, 24:235, 24:261, 24:445N, 26:10,

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101.412-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **8H9**

Lot-specific information

				32:28, 32:66, 68:02:01:01-68:02:15, 68:15, 68:18N, 68:25, 68:27:01-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, 68:60-68:62, 68:64, 68:67, 68:74, 68:76:01-68:78, 68:80-68:82, 68:86, 68:92, 68:97, 68:110, 68:119:01-68:119:02, 68:124-68:125, 68:128, 68:138, 68:147, 68:153, 68:160, 68:163, 68:169-68:170, 68:174, 68:178, 68:184, 68:186-68:187, 68:193, 68:198, 68:201, 69:04, B*07:136:02, B*44:59:02, 44:136, B*51:136, C*07:204:01, C*07:482, C*12:37
92	235 bp	1070 bp	*02:01:01:01-02:01:01:55, 02:01:03-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:30, 02:01:32-02:01:81, 02:01:83-02:05:06, 02:05:08-02:06:04, 02:06:06-02:06:08, 02:06:10-02:07:12, 02:09:01:01-02:19, 02:21-02:22:02, 02:24:01-02:49, 02:51-02:54, 02:57-02:61, 02:63-02:76:01, 02:77, 02:79:01-02:97:02, 02:99, 02:101:01-02:102, 02:104-02:121, 02:123-02:127, 02:129-02:168, 02:170-02:194, 02:196-02:235, 02:237-02:243:02, 02:244-02:249, 02:251-02:414, 02:416-02:590, 02:591:02-02:608N, 02:610:01-02:633, 02:635-02:643N, 02:645, 02:647-02:665, 02:667-02:773N, 02:775N-02:805Q, 02:807N-02:814, 02:816-02:828, 02:830-02:835, 02:837	
93⁶	130 bp 245 bp	800 bp	*02:163, 02:583 *02:147, 02:339, 02:348	*03:170, 23:52, 24:73, 24:157, 31:120, 32:119, 66:32, B*15:173, B*15:477, B*18:63, B*39:90
94^{4,6}	295 bp 110 bp 150 bp 175 bp 210 bp 360 bp	800 bp	*02:157:01-02:157:02, 02:473 *02:325, 02:377, 02:641 *02:360 *02:597 *02:150:01 *02:197:01-02:197:02, 02:478, 02:494, 02:745, 02:783	
95	135 bp	800 bp	*02:52, 02:105, 02:147, 02:151, 02:188, 02:339	*68:06, B*15:67, B*15:343, B*35:110, B*58:77, C*01:129, C*07:386, C*07:700, C*12:94, C*14:48
96¹²	-	-	Negative Control	

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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-A*02 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.

⁵The specific primers in primer mixes 3, 6, 31, 34, 39 and 55 may give rise to a lower yield of HLA-specific PCR product than the other A*02 primer mixes.

⁶Primer mixes 7, 11, 25, 33, 42, 46, 54, 57, 73, 77, 81, 84, 87, 88, 93 and 94 have a tendency giving rise to primer oligomer formation, most pronounced in primer mix 46.

⁷Primer mixes 11, 13, 14, 15, 17, 20, 27, 31, 32, 33, 40, 41, 42, 46, 54, 59, 60, 61, 65, 71, 72, 75, 79, 89 and 91 may have tendencies of unspecific amplifications, most pronounced in primer mixes 33, 41 and 91.

⁸Primer mixes 11 and 34 may give rise to a long fragment of approx. 600 bp in some HLA-A alleles. This band should not be considered in the interpretation of HLA-A*02 typings.

⁹Primer mix 18 may faintly amplify the C*04:01:01:01-04:01:84 alleles.

¹⁰For some samples primer mix 1 may amplify the A*02:07:01-02:07:02 alleles.

¹¹Primer mix 34 may give rise to a lower yield of HLA-specific PCR product than the other HLA-A*02 high resolution primer mixes for the A*30 alleles.

¹²Primer mix 96 contains a negative control, which will amplify a 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 products generated by the HGH positive control primer pair are 200 and 430 base pairs.

Abbreviations

'w', might be weakly amplified.

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101.412-24u/04u – without *Taq* polymerase, IFU-02 “Instructions for Use” (IFU)

Lot No.: 8H9

Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	360	240	175	80	125	75	170	415	105	115	135	235
							210	505			225	350
Length of int. pos. control ¹	800	1070	1070	1070	1070	800	1070	1070	1070	800	1070	1070
5'-primer(s) ²	292 -CTC	81 -CAg	362 -gAg	200 -CCA	453 -AAA	506 -gCA	369 -TAg	270 -AAA	453 -AAA	453 -AAA	292 -CTC	98 -CTA
	292 -CCC	96 -TTT	362 -gAg		453 -AAA		402 -CTg		453 -AAA	453 -AAA	648 -CAA	
		98 -CTT					409 -ggA				737 -ggA	
		102 -ACA										
3'-primer(s) ³	368 -CAT	292 -gTg	497 -Tgg	240 -ggA	539 -TCA	539 -TCC	538 -CAA	402 -CgC	517 -CgT	527 -CCT	362 -TCA	292 -gTg
	368 -CAT	294 -CgA	497 -Tgg	241 -CgC	543 -gCC		538 -CCA	493 -CTA			362 -TCA	
			497 -Tgg								831 -TCC	
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	145	95	125	110	205	175	225	135	155	160	140	75
		170	265	155	360			170	220		180	110
			305					260	255			160
								295				
								320				
Length of int. pos. control ¹	800	800	800	800	1070	1070	1070	800	1070	1070	800	1070
5'-primer(s) ²	98 -CTA	368 -gTg	78 -TCT	385 -ggC	292 -CTC	144 -gCA	355 -CCg	78 -TCT	666 -gAA	453 -AAA	185 -CAA	453 -AAA
		445 -TCT		666 -gAA	666 -gAA			2nd I -CCA			194 -Cgg	
											205 -ggg	
											368 -gTT	
3'-primer(s) ³	200 -TCC	497 -Tgg	160 -gTT	453 -TCT	368 -CAA	268 -TTg	538 -CTg	170 -Cgg	779 -CTT	570 -CCg	292 -gTg	487 -TgT
			160 -gTg	779 -CTT	829 -CTA	268 -TTA		413 -ggC	843 -gTT		506 -TgT	524 -CAC
			302 -ggT			290 -CAA		505 -gTA	880 -gAA			527 -CCg
			343 -A					538 -CCg				571 -CCg
								563 -CgT				
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

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Lot No.: 8H9

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	135	125	95	235	220	130	95	85	155	120	110	85
PCR product	160	165	140		300	160	220	120	195	170	155	445
	190	260	175			210		205	240			
		305	540					240				
Length of int. pos. control ¹	1070	800	1070	800	1070	800	800	1070	800	800	1070	1070
5'-primer(s) ²	453 -AAA	2nd I -CCA	160 -ACT 238 -AgA 391 -ACg 391 -ACg 397 -gCC	78 -TCT	78 -TCT	529 -TgA 533 -gA 666 -gAA	78 -TCT 564 -TgA	78 -TCT 741 -g.C 755 -CAT 789 -g.A	362 -gAg 362 -gAg 420 -TAg 420 -TAg	144 -gCA 420 -TAg 420 -TAg	453 -AAA	292 -CTC
3'-primer(s) ³	538 -CTA 559 -CTC 573 -AgT 575 -ggT 604 -CgC	368 -CAG 411 -TCA 505 -gTA 549 -AgT	292 -gTg 497 -Tgg	270 -ACg 270 -ACA	257 -CCT 337 -CTg	616 -CgT 781 -CCC 791 -AgT 835 -CTA	256 -CTg 616 -CgT	241 -CgT 265 -CCC 290 -gAC 831 -TCC	473 -CgA 482 -Tgg 518 -CCA 549 -AgT 570 -CCg	268 -TTA 282 -gAC 282 -gAC 497 -Tgg	524 -CAC 524 -CAC 569 -ACA	335 -gC 453 -TCg
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.	145	125	80	100	85	220	180	125	105	135	165	110
PCR product		195	170	220	185	245	225	165	160	205	205	205
		225	240	250				200	185	255	305	
			265						270			
			300									
Length of int. pos. control ¹	1070	800	1070	1070	1070	800	800	800	1070	1070	800	1070
5'-primer(s) ²	453 -AAA	98 -CTT 353 -CAG 414 -CAA 414 -CAG	355 -CCg	355 -CCg	355 -CCC 692 -gAA 789 -g.A	78 -TCT	355 -CCg	110 -gTg 125 -CgA 157 -TgA 451 -TgT 463 -TgT 482 -ggT	355 -CCg	78 -TCT 652 -CTg	78 -TCT	419 -gTC 431 -CgC
3'-primer(s) ³	559 -CCT 559 -CCg	255 -CTg 281 -AgC 497 -Tgg	394 -gCT 485 -CCT 553 -CTA 564 -ACC 565 -CAT 578 -Tgg 613 -gCA	403 -gCA 418 -gTg 524 -CAC 524 -CAC 545 -AgT 565 -CAT	506 -TgT 831 -TCC 282 -gAC 282 -gAC	255 -CTg 539 -TCC	494 -TCC 616 -CgT	240 -ggA 616 -CgT	419 -CgA 475 -Cgg 497 -TgA 497 -TgA 585 -AgC	241 -CgC 746 -ggA	203 -TCA 242 -CCA 290 -Cag 340 -ggT	497 -Tgg
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.412-24/04 – including *Taq* polymerase, IFU-01
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Lot No.: **8H9**

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec. PCR product	115 165	145	410	175	215	240 310 350	85 160 205 265	150 180 275	105 145	255	145 190 210	345
Length of int. pos. control ¹	1070	800	1070	800	1070	800	1070	1070	1070	800	800	1070
5'-primer(s) ²	453 -AAA ³	-111 -ATC ³	292 -CTC ³	98 -CTC ³ 110 5'-gTg ³ 115 5'-ggA ³	355 -CCC ³ 375 5'-TgA ³	2nd I -CCA ³	81 -CAg ³ 355 5'-CCg ³	78 -TCT ³	78 -TCT ³	78 -TCT ³	666 -gAA ³	292 -CTC ³
3'-primer(s) ³	527 -CCg ³ 575 -ggT ³	4 -ggC ³	418 -gTC ³	240 -ggA ³	538 -CAA ³	475 -CgA ³ 497 -Tgg ³ 557 -TgT ³ 595 -CCg ³ 595 -CCT ³	240 -ggA ³ 400 -gAA ³ 476 -CCA ³ 517 -CgC ³ 577 -gCA ³	187 -gTA ³ 187 -gTg ³ 218 -gCA ³ 302 -ggC ³ 324 -TAC ³	142 -TgA ³ 145 -CAT ³ 184 -gCC ³ 187 -gTA ³	292 -gTC ³	768 -gTA ³ 768 -gTg ³ 814 -CA ³ 835 -CTA ³	355 -gAT 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. PCR product	185	180	60 95 155 210	125 180 260	150 185 250	170 200	100 140 180 300	210 255 180	170 225 335	125 180 285	210	120 240
Length of int. pos. control ¹	1070	800	800	1070	1070	800	800	1070	1070	800	800	1070
5'-primer(s) ²	355 -CCA ³	666 -gAA ³	369 -TAg ³ 375 5'-Tgg ³ 375 5'-TgA ³ 420 5'-TAT ³ 427 5'-A.g ³ 485 5'-CAC ³ 517 5'-AgA ³	395 -gCA ³ 478 5'-CgA ³ 482 5'-ggT ³ 484 5'-ACT ³ 484 5'-ACg ³ 530 5'-ggT ³	78 -TCT ³ 355 5'-CCg ³ 115 5'-ggA ³	81 -CAg ³ 112 5'-CCT ³ 115 5'-ggA ³	78 -TCT ³ 353 5'-CAg ³ 386 5'-gTT ³ 397 5'-gCC ³ 406 5'-gCA ³ 431 5'-CgC ³ 445 5'-TCT ³	78 -TCT ³	78 -TCT ³ 2nd I 5'-CCA ³	78 -TCT ³	81 -CAC ³ 81 5'-CAC ³	2nd I -CCA ³ 741 5'-g.C ³
3'-primer(s) ³	497 -Tgg ³	806 -CCA ³	538 -CAA ³	616 -CgT ³	184 -gCC ³ 221 5'-ACA ³ 456 5'-TCg ³ 475 5'-Cgg ³ 476 5'-CCA ³ 559 5'-CTC ³ 562 5'-gCg ³ 565 5'-CAg ³	240 -ggA ³	218 -gCT ³ 337 5'-CTA ³ 497 5'-Tgg ³	244 -CTA ³ 251 5'-CCT ³ 252 5'-TCT ³ 289 5'-AgC ³ 299 5'-CCT ³	263 -gTA ³ 413 5'-gCC ³ 578 5'-TgT ³	164 -gCT ³ 218 5'-gCC ³ 221 5'-ACC ³ 319 5'-gCT ³ 326 5'-TgC ³	240 -ggA ³ 256 5'-CCC ³	353 -CgA ³ 475 5'-CgA ³ 506 5'-TgC ³ 831 5'-TCC ³
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

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Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	80	175	100	115	80	80	110	85	110	225	100	125
PCR product	120	250	165	190	115	130	150	135	235	255	125	180
	200		200	225	260	240	200	230	310	295	205	205
	250					545	225	545		390	240	250
							270				265	
Length of int. pos. control ¹	800	800	1070	800	800	1070	800	1070	800	1070	800	800
5'-primer(s) ²	78 5'-TCT 3'	103 5'-CCg 3'	453 5'-AAA 3'	48 5'-gCT 3'	78 5'-TCT 3'	355 5'-CCT 3'	78 5'-TCT 3'	359 5'-CCg 3'	2nd I 5'-CCA 3'	249 5'-TAG 3'	355 5'-CCg 3'	78 5'-TCT 3'
	488 5'-ggT 3'	104 5'-ATA 3'		441 5'-TAA 3'	385 5'-ggA 3'	364 5'-ggg 3'	453 5'-AAA 3'	404 5'-CCC 3'		341 5'-ggg 3'	808 5'-CgA 3'	415 5'-ACA 3'
	520 5'-CgT 3'	395 5'-gCA 3'		463 5'-TgT 3'		417 5'-CAC 3'		3rd I 5'-ATA 3'		666 5'-gAA 3'		484 5'-ACT 3'
		415 5'-ACT 3'		478 5'-CgA 3'		3rd I 5'-ATA 3'		666 5'-gAA 3'				533 5'-gA 3'
				542 5'-gAA 3'		666 5'-gAA 3'						
3'-primer(s) ³	145 5'-CAT 3'	240 5'-ggA 3'	514 5'-CTA 3'	106 5'-CAT 3'	119 5'-ggT 3'	453 5'-TCT 3'	153 5'-ACT 3'	453 5'-TCT 3'	353 5'-CgA 3'	355 5'-gAC 3'	434 5'-CCC 3'	218 5'-gCA 3'
	164 5'-gCC 3'	616 5'-CgT 3'	578 5'-TgT 3'	616 5'-CgT 3'	121 5'-gCA 3'	705 5'-TCT 3'	255 5'-Cgg 3'	705 5'-TCT 3'	482 5'-Tgg 3'	850 5'-ATT 3'	442 5'-gAC 3'	221 5'-ACC 3'
	239 5'-gAT 3'		604 5'-CgC 3'		153 5'-ACT 3'	866 5'-AAA 3'	260 5'-T.T 3'	853 5'-CAT 3'	553 5'-CTT 3'	880 5'-gAA 3'	518 5'-CCA 3'	241 5'-CgA 3'
	289 5'-AgC 3'		616 5'-CgC 3'		295 5'-TCA 3'		299 5'-CCT 3'		559 5'-CTT 3'		555 5'-CCA 3'	284 5'-..g 3'
	299 5'-TCg 3'		617 5'-CCA 3'		453 5'-TCT 3'		299 5'-TCg 3'				562 5'-gCg 3'	296 5'-CTT 3'
	559 5'-CgT 3'						319 5'-gCT 3'				577 5'-gCA 3'	616 5'-CgT 3'
							513 5'-TCT 3'				868 5'-CAA 3'	
							563 5'-CgA 3'				899 5'-ACg 3'	
							610 5'-CTA 3'					
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

Well No.	85	86	87	88	89	90	91	92	93	94	95
Length of spec.	170	180	110	135	120	100	115	235	130	110	135
PCR product	215	255	150	250	155	130			245	150	
	260	310	210	305	200	190			295	175	
			260			255				210	
			305							360	
Length of int. pos. control ¹	800	800	800	800	800	800	800	1070	800	800	800
5'-primer(s) ²	375 5'-Tgg 3'	2nd I 5'-CCA 3'	78 5'-TCT 3'	78 5'-TCT 3'	453 5'-AAA 3'	78 5'-TCC 3'	379 5'-ACC 3'	78 5'-TCT 3'	364 5'-ggT 3'	124 5'-gCA 3'	412 5'-ATg 3'
	409 5'-ggA 3'		392 5'-CTA 3'	419 5'-gTC 3'	652 5'-CTg 3'	143 5'-CgT 3'	379 5'-ACT 3'		364 5'-ggC 3'	160 5'-ACT 3'	
	411 5'-TAG 3'		488 5'-ggT 3'			205 5'-ggg 3'	385 5'-ggC 3'		409 5'-ggC 3'	185 5'-CAA 3'	
	420 5'-TAA 3'					229 5'-TAC 3'	385 5'-ggA 3'		415 5'-ACA 3'	223 5'-Cgg 3'	
	666 5'-gAA 3'					235 5'-AgA 3'			529 5'-TgA 3'	229 5'-TAC 3'	
						244 5'-CgC 3'				2nd I 5'-CCA 3'	
3'-primer(s) ³	538 5'-CAA 3'	423 5'-TAA 3'	187 5'-gTg 3'	175 5'-CCA 3'	542 5'-CTg 3'	292 5'-gTg 3'	453 5'-TCT 3'	270 5'-ACT 3'	616 5'-CgT 3'	292 5'-gTg 3'	506 5'-TgT 3'
	801 5'-CAC 3'	502 5'-CTg 3'	193 5'-Cgg 3'	277 5'-ggT 3'	572 5'-gCT 3'			270 5'-ACT 3'		605 5'-gCA 3'	
	850 5'-ATT 3'	557 5'-TgT 3'	296 5'-CTT 3'	295 5'-TCA 3'	573 5'-AgT 3'						
	884 5'-ggA 3'		343 5'-T 3'	343 5'-T 3'	610 5'-CTA 3'						
			559 5'-CgT 3'	506 5'-TgT 3'	617 5'-CCA 3'						
					727 5'-CCA 3'						
					763 5'-CAT 3'						
Well No.	85	86	87	88	89	90	91	92	93	94	95

101.412-24/04 – including *Taq* polymerase, IFU-01 Visit <https://labproducts.caredx.com> for
101.412-24u/04u – without *Taq* polymerase, IFU-02 “Instructions for Use” (IFU)

Lot No.: 8H9**Lot-specific information**

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.

101.412-24/04 – including *Taq* polymerase, IFU-01 Visit <https://labproducts.caredx.com> for
 101.412-24u/04u – without *Taq* polymerase, IFU-02 “Instructions for Use” (IFU)

Lot No.: **8H9**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A*02 SSP subtyping kit ²																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201907101	201907102	201780203	201780204	201780205	201780206	201780207	201780208	201890009	201780210	201780211	201907112	201907113	201780214	201780215	201780216
	IHWC cell line ¹	A*	A*																	
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	+	+	+	+	+	-	-	-	-	-	-	-	+	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	W	-	-	-	-	-	-	-	-	-	-	W	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	+	-	+	+	-	-	-	-	-	-	+	-	-	-	-	-
22	9056 KOSE	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		+	-	+	-	-	+	+	+	-	-	-	+	+	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	+
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	+	-	+	+	+	-	-	-	-	-	-	-	+	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	+	-	+	+	-	-	-	-	-	-	+	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	+	+	+	+	-	-	-	-	-	-	-	-	-	+	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		+	+	+	+	+	-	-	-	-	-	-	-	-	-	+	-	-
43	9076 T7526	*02:06	*02:07	+	+	+	+	+	-	-	-	-	-	-	+	-	+	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01 Visit <https://labproducts.caredx.com> for
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Lot No.: **8H9**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*02 SSP subtyping kit ²																			
				Well															
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
			Prod. No.:	201780217	201780218	201780219	201907120	201780221	201780222	201780223	201780224	201907125	201890026	201890027	201780228	201780229	201780230	201780231	201907132
	IHWC cell line ¹	A*	A*																
1	9001 SA	*24:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01
 101.412-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **8H9**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A*02 SSP subtyping kit ²																				
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201907133	201890034	201780235	201780236	201780237	201890038	201780239	201780240	201907141	201890042	201780243	201890044	201780245	201780246	201907147	201780248
	IHCW cell line ¹	A*	A*																	
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275 GU373	*30:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353 SM	*02:01	*26:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282 CTM3953540	*03:01	*80:01	-	-	-	W	-	-	-	-	-	-	-	-	-	-	-	-	
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
27	9191 CH1007	*24:10	*29:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021 RSH	*30:01	*68:02	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	9134 WHONP199	*02:07	*30:01	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239 SHJO	*23:01	*24:02	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.412-24/04 – including *Taq* polymerase, IFU-01 Visit <https://labproducts.caredx.com> for
 101.412-24u/04u – without *Taq* polymerase, IFU-02 “Instructions for Use” (IFU)

Lot No.: **8H9**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A*02 SSP subtyping kit ²																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201780249	201780250	201780251	201890052	201780253	201780254	201907155	201780256	201780257	201780258	201780259	201780260	201780261	201780262	201890063	201780264
	IHWC cell line ¹	A*	A*																	
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 101.412-24u/04u – without *Taq* polymerase, IFU-02 “Instructions for Use” (IFU)

Lot No.: **8H9**

Lot-specific information

CELL LINE VALIDATION SHEET				Well															
HLA-A*02 SSP subtyping kit ²																			
			Prod. No.:	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				201780265	201780266	201890067	201780268	201780269	201780270	201907171	201890072	201780273	201780274	201780275	201780276	201780277	201907178	201907179	201907180
	IHWC cell line ¹	A*	A*																
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-

101.412-24/04 – including *Taq* polymerase, IFU-01 Visit <https://labproducts.caredx.com> for
101.412-24u/04u – without *Taq* polymerase, IFU-02 “Instructions for Use” (IFU)

Lot No.: **8H9**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A*02 SSP subtyping kit ²																			
				Well															
				81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	
				Prod. No.:	201780281	201907182	201907183	201780284	201780285	201780286	201780287	201780288	201780289	201780290	201780291	201780292	201780293	201780294	201780295
	IHWC cell line ¹	A*	A*																
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-

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Lot No.: **8H9**

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 15, 20, 24, 26, 27, 29, 30, 32, 38, 40, 42, 44, 46 to 50, 52, 54, 56, 57, 59, 63 to 70, 72 to 89 and 93 to 95 were available.

The specificities of the primers in primer solutions 15, 20, 26, 30, 32, 38, 40, 42, 47, 49, 52, 56, 57, 63, 65 to 67, 69, 72 to 74, 76 to 80, 82 to 88 and 93 to 95 were tested by separately adding one, two or three additional 5'-primers respectively one or two 3'-primers.

In primer solutions 24, 29, 46, 54, 59, 68, 70, 75, 81 and 89 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 44, 48 and 64 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solution 50 neither the 5'-primer nor the 3'-primer were possible to test.

In primer solutions 3 to 5, 8, 15, 17, 18, 20, 21, 25, 26, 28, 30, 32 to 40, 42, 43, 45, 47, 49, 55 to 57, 65, 67, 69, 72, 73, 76 to 80, 82 to 88 and 94 one or more of the 3'-primers were not possible to test.

In primer solutions 5, 7, 11, 14, 23, 27, 30, 32, 34, 38, 41, 52, 53, 63, 66, 67, 72 to 74, 76 to 78, 80, 82 to 85, 87, 90, 91, 93 and 94 one or more of the 5'-primers were not possible to test.

Additional primers in primer solutions 10, 11, 17, 23, 31, 34, 35, 41, 45 and 91 were tested by separately adding either one or two additional 3'-primers and/or one additional 5'-primer.

101.412-24/04 – including *Taq* polymerase, IFU-01 Visit <https://labproducts.caredx.com> for
101.412-24u/04u – without *Taq* polymerase, IFU-02 “Instructions for Use” (IFU)

Lot No.: **8H9**

Lot-specific information

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