101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

Visit https://labproducts.caredx.com for **"Instructions for Use" (IFU)**

Lot No.: 5G0

Lot-specific information

Olerup SSP® HLA-B*35

Product number:	**101.522-24/03 – including *Taq* pol.** **101.522-24u/03u – without *Taq* pol.**
Lot number:	**5G0**
Expiry date:	**2021-03-01**
Number of tests:	**24 tests – Product No. 101.522-24/24u** **3 tests – Product No. 101.522-03/03u**
Number of wells per test:	**93+1**
Storage - pre-aliquoted primers:	**dark at -20ºC**
- PCR Master Mix:	**-20ºC**
- Adhesive PCR seals	**RT**
- Product Insert	**RT**

This Product Description is only valid for Lot No. 5G0.

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-B*35 LOT (2E1)

The HLA-B*35 kit is updated for new alleles to enable separation of:

- Null and Alternatively expressed alleles
- The product documentation has been updated for new alleles of IMGT 3.31

The format of the Worksheet has been changed.

One well has been added to HLA-B*35, well **94**.

The HLA-B*35 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup* SSP® HLA-B*35 lot was made **(Lot No. 2E1)**.

Lot No.: 5G0 **Lot-specific information**

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

Well	5'-primer	3'-primer	rationale
1	Added	-	5'-primer added for improved HLA-specific amplification.
2	-	Modified	3'-primer modified for decreased tendency of unspecific amplification.
30	-	Modified	3'-primer modified for decreased tendency of unspecific amplification.
31	-	Modified	Positive control primer pair exchanged for deceased tendency of primer oligomer formation, 3'-primer modified for improved HLA-specific amplification.
32	-	Modified	Positive control primer pair exchanged for deceased tendency of primer oligomer formation, 3'-primer modified for decreased tendency of unspecific amplification.
37	Modified	-	5'-primer modified for decreased tendency of unspecific amplification.
44	Modified	-	5'-primer modified for decreased tendency of unspecific amplification.
46	-	-	Positive control primer pair exchanged for deceased tendency of primer oligomer formation.
53	-	Modified	3'-primer modified for improved HLA-specific amplification.
73	-	Modified	3'-primer modified for decreased tendency of unspecific amplification.
74	-	Added	3'-primer added for the B*35:173:02N allele.
89	-	Added	3'-primer added for the B*35:333Q allele.
90	-	Exchanged	3'-primer exchanged for decreased tendency of primer oligomer formation. Positive control primer pair exchanged.
93	Added	Added	Negative control moved to well 94. New primer pair added for improved resolution.
94	-	-	Negative control added from well 93.

Changes in revision R01 compared to R00:

1. Primer mix 93 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B*35 primer mixes. A footnote for the correction above has been added under the specificity table.

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Lot No.: 5G0 **Lot-specific information**

Well **94** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP® HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs.
The PCR product generated by the positive control primer pair is 430 base pairs.

Length of PCR product	**105**	**200**	**105**	**80**	**75**	**80**	**85**
5'-primer[1]	**164**	**340**	**440**	**45**	**45**	**43**	**36**
	5'-CAC3'	5'-Agg3'	5'-TTA3'	5'-Tgg3'	5'-Tgg3'	5'-Tgg3'	5'-TAC3'
							36
							5'-TAT3'
3'-primer[2]	**231**	**2nd I**	**507**	**59**	**58**	**57**	**47**
	5'-TgC3'	5'-AAA3'	5'-TTg3'	5'-CTC3'	5'-ggC3'	5'-CTC3'	5'-ACA3'
							48
							5'-gCA3'
							48
							5'-gCC3'
							52
							5'-TgT3'
A*	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

[1]The 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 codonnumbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.
[2]The 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 No.: 5G0 **Lot-specific information**

PRODUCT DESCRIPTION

HLA-B*35 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*35:01 to B*35:360 alleles.

PLATE LAYOUT

Each test consists of 94 PCR reactions in a 96 well cut PCR plate. Wells 95 to 96 are empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	NC	empty	empty

The 96 well cut PCR plate is marked with 'HLA-B*35' in silver/gray ink.
Well No. 1 is marked with the Lot No. '5G0'.
Wells 1 to 93 – HLA-B*35 high resolution primers.
Well 94 – 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-B alleles non-HLA-B*35 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*35 alleles, i.e. **B*35:01 to B*35:360**, recognized by the HLA Nomenclature Committee in January 2018[1,2] will be amplified by the primers in the HLA-B*35 subtyping kit.

The HLA-B*35 kit enables separation of the confirmed HLA-B*35 alleles as listed in the IMGT/HLA database 3.24.0. 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-B*35 alleles is listed below.

Lot No.: 5G0 **Lot-specific information**

The HLA-B*35 kit also enables identification of null and alternatively expressed alleles.

The following HLA-B*35 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
B*35:122, 35:123	61
B*35:130N, 35:134N	64
B*35:132, 35:144	62
B*35:219, 35:293	81

[1]HLA-B alleles listed on the IMGT/HLA web page 2018-January-19, release 3.31.0, www.ebi.ac.uk/imgt/hla.
[2]Alleles 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 No.: 5G0 **Lot-specific information**

ALLELE CONFIRMATION STATUS

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
B*35:01:01:01	**Confirmed**	B*35:02:04	Unconfirmed	B*35:12:02	Unconfirmed	B*35:53N	Unconfirmed
B*35:01:01:02	**Confirmed**	B*35:02:05	Unconfirmed	B*35:12:03	Unconfirmed	B*35:54	Unconfirmed
B*35:01:01:03	Unconfirmed	B*35:02:06	Unconfirmed	**B*35:13**	**Confirmed**	**B*35:55**	**Confirmed**
B*35:01:02	Unconfirmed	B*35:02:07	Unconfirmed	**B*35:14:01**	**Confirmed**	B*35:56	Unconfirmed
B*35:01:03	Unconfirmed	B*35:02:08	Unconfirmed	B*35:14:02	Unconfirmed	**B*35:57**	**Confirmed**
B*35:01:04	**Confirmed**	**B*35:03:01**	**Confirmed**	**B*35:15:01**	**Confirmed**	**B*35:58**	**Confirmed**
B*35:01:05	**Confirmed**	B*35:03:02	Unconfirmed	B*35:15:02	Unconfirmed	**B*35:59:01**	**Confirmed**
B*35:01:06	Unconfirmed	B*35:03:03	Unconfirmed	**B*35:16**	**Confirmed**	B*35:59:02	Unconfirmed
B*35:01:07	**Confirmed**	B*35:03:04	Unconfirmed	**B*35:17:01**	**Confirmed**	B*35:60	Unconfirmed
B*35:01:08	Unconfirmed	B*35:03:05	Unconfirmed	**B*35:17:02**	**Confirmed**	**B*35:61:01**	**Confirmed**
B*35:01:09	**Confirmed**	B*35:03:06	Unconfirmed	B*35:18	Unconfirmed	B*35:61:02	Unconfirmed
B*35:01:10	Unconfirmed	B*35:03:07	Unconfirmed	**B*35:19**	**Confirmed**	**B*35:62**	**Confirmed**
B*35:01:11	**Confirmed**	B*35:03:08	Unconfirmed	**B*35:20:01**	**Confirmed**	B*35:63	Unconfirmed
B*35:01:12	Unconfirmed	B*35:03:09	Unconfirmed	**B*35:20:02**	**Confirmed**	**B*35:64:01**	**Confirmed**
B*35:01:13	Unconfirmed	B*35:03:10	Unconfirmed	**B*35:21**	**Confirmed**	B*35:64:02	Unconfirmed
B*35:01:14	Unconfirmed	**B*35:03:11**	**Confirmed**	**B*35:22**	**Confirmed**	**B*35:65Q**	**Confirmed**
B*35:01:15	**Confirmed**	B*35:03:12	Unconfirmed	**B*35:23**	**Confirmed**	B*35:66	Unconfirmed
B*35:01:16	Unconfirmed	B*35:03:13	Unconfirmed	**B*35:24:01**	**Confirmed**	B*35:67	Unconfirmed
B*35:01:17	**Confirmed**	B*35:03:14	Unconfirmed	**B*35:24:02**	**Confirmed**	B*35:68:01	Unconfirmed
B*35:01:18	Unconfirmed	B*35:03:15	Unconfirmed	B*35:25	Unconfirmed	**B*35:68:02**	**Confirmed**
B*35:01:19	**Confirmed**	B*35:03:16	Unconfirmed	**B*35:26**	**Confirmed**	B*35:69	Unconfirmed
B*35:01:20	Unconfirmed	B*35:03:17	Unconfirmed	B*35:27	Unconfirmed	B*35:70	Unconfirmed
B*35:01:21	Unconfirmed	B*35:03:18	Unconfirmed	**B*35:28**	**Confirmed**	B*35:71	Unconfirmed
B*35:01:22	Unconfirmed	B*35:03:19	Unconfirmed	**B*35:29:01**	**Confirmed**	**B*35:72**	**Confirmed**
B*35:01:23	**Confirmed**	B*35:03:20	Unconfirmed	B*35:29:02	Unconfirmed	**B*35:74**	**Confirmed**
B*35:01:24	Unconfirmed	B*35:03:21	Unconfirmed	**B*35:30**	**Confirmed**	B*35:75	Unconfirmed
B*35:01:25	Unconfirmed	**B*35:04:01**	**Confirmed**	**B*35:31**	**Confirmed**	B*35:76	Unconfirmed
B*35:01:26	Unconfirmed	**B*35:04:02**	**Confirmed**	**B*35:32:01**	**Confirmed**	**B*35:77**	**Confirmed**
B*35:01:27	**Confirmed**	B*35:04:03	Unconfirmed	B*35:32:02	Unconfirmed	B*35:78	Unconfirmed
B*35:01:28	Unconfirmed	**B*35:05:01**	**Confirmed**	**B*35:33**	**Confirmed**	B*35:79	Unconfirmed
B*35:01:29	**Confirmed**	**B*35:05:02**	**Confirmed**	**B*35:34**	**Confirmed**	B*35:80	Unconfirmed
B*35:01:30	Unconfirmed	B*35:05:03	Unconfirmed	**B*35:35**	**Confirmed**	**B*35:81**	**Confirmed**
B*35:01:31	Unconfirmed	**B*35:06**	**Confirmed**	B*35:36	Unconfirmed	B*35:82	Unconfirmed
B*35:01:32	Unconfirmed	B*35:07	Unconfirmed	**B*35:37**	**Confirmed**	B*35:83	Unconfirmed
B*35:01:33	Unconfirmed	**B*35:08:01**	**Confirmed**	**B*35:38**	**Confirmed**	B*35:84	Unconfirmed
B*35:01:34	Unconfirmed	**B*35:08:02**	**Confirmed**	B*35:39	Unconfirmed	B*35:85	Unconfirmed
B*35:01:35	**Confirmed**	B*35:08:03	Unconfirmed	B*35:40N	Unconfirmed	B*35:86	Unconfirmed
B*35:01:36	Unconfirmed	**B*35:08:04**	**Confirmed**	**B*35:41**	**Confirmed**	**B*35:87**	**Confirmed**
B*35:01:37	Unconfirmed	B*35:08:05	Unconfirmed	**B*35:42:01**	**Confirmed**	B*35:88	Unconfirmed
B*35:01:38	Unconfirmed	B*35:08:06	Unconfirmed	B*35:42:02	Unconfirmed	B*35:89	Unconfirmed
B*35:01:39	Unconfirmed	**B*35:08:07**	**Confirmed**	**B*35:43:01**	**Confirmed**	B*35:90	Unconfirmed
B*35:01:40	Unconfirmed	**B*35:08:08**	**Confirmed**	B*35:44	Unconfirmed	B*35:91	Unconfirmed
B*35:01:41	Unconfirmed	**B*35:09:01**	**Confirmed**	B*35:45	Unconfirmed	B*35:92	Unconfirmed
B*35:01:42	Unconfirmed	B*35:09:02	Unconfirmed	B*35:46	Unconfirmed	B*35:93	Unconfirmed
B*35:01:43	Unconfirmed	**B*35:09:03**	**Confirmed**	**B*35:47**	**Confirmed**	B*35:94	Unconfirmed
B*35:01:44	Unconfirmed	**B*35:10**	**Confirmed**	**B*35:48**	**Confirmed**	**B*35:95**	**Confirmed**
B*35:01:45	Unconfirmed	**B*35:11:01**	**Confirmed**	**B*35:49**	**Confirmed**	**B*35:96**	**Confirmed**
B*35:02:01	**Confirmed**	B*35:11:02	Unconfirmed	B*35:50	Unconfirmed	**B*35:97**	**Confirmed**
B*35:02:02	**Confirmed**	**B*35:11:03**	**Confirmed**	B*35:51	Unconfirmed	**B*35:98**	**Confirmed**
B*35:02:03	Unconfirmed	**B*35:12:01**	**Confirmed**	B*35:52	Unconfirmed	**B*35:99**	**Confirmed**

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Lot No.: 5G0 **Lot-specific information**

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
B*35:100	**Confirmed**	**B*35:148**	**Confirmed**	B*35:197	Unconfirmed	B*35:247	Unconfirmed
B*35:101:01	**Confirmed**	**B*35:149**	**Confirmed**	B*35:198	Unconfirmed	B*35:248	Unconfirmed
B*35:101:02	Unconfirmed	B*35:150:01	Unconfirmed	B*35:199	Unconfirmed	B*35:249	Unconfirmed
B*35:102	Unconfirmed	B*35:150:02	Unconfirmed	**B*35:200**	**Confirmed**	B*35:250	Unconfirmed
B*35:103	**Confirmed**	B*35:151	Unconfirmed	B*35:201	Unconfirmed	B*35:251	Unconfirmed
B*35:104	**Confirmed**	B*35:152	Unconfirmed	B*35:202	Unconfirmed	B*35:252	Unconfirmed
B*35:105	**Confirmed**	B*35:153	Unconfirmed	B*35:203	Unconfirmed	B*35:253	Unconfirmed
B*35:106	**Confirmed**	B*35:154	Unconfirmed	B*35:204	Unconfirmed	B*35:254	Unconfirmed
B*35:107	Unconfirmed	B*35:155	Unconfirmed	B*35:205	Unconfirmed	B*35:255	Unconfirmed
B*35:108:01	**Confirmed**	B*35:156	Unconfirmed	B*35:206	Unconfirmed	B*35:256	Unconfirmed
B*35:108:02	**Confirmed**	**B*35:157**	**Confirmed**	B*35:207	Unconfirmed	B*35:257	Unconfirmed
B*35:109	Unconfirmed	**B*35:158**	**Confirmed**	B*35:208	Unconfirmed	B*35:258	Unconfirmed
B*35:110	Unconfirmed	B*35:159	Unconfirmed	B*35:209	Unconfirmed	**B*35:259**	**Confirmed**
B*35:111	Unconfirmed	B*35:160	Unconfirmed	**B*35:210**	**Confirmed**	B*35:260	Unconfirmed
B*35:112	**Confirmed**	B*35:161	Unconfirmed	B*35:211	Unconfirmed	B*35:261	Unconfirmed
B*35:113	**Confirmed**	B*35:162	Unconfirmed	B*35:212	Unconfirmed	**B*35:262**	**Confirmed**
B*35:114	Unconfirmed	**B*35:163**	**Confirmed**	B*35:213	Unconfirmed	**B*35:263**	**Confirmed**
B*35:115	**Confirmed**	B*35:164	Unconfirmed	**B*35:214**	**Confirmed**	B*35:264	Unconfirmed
B*35:116	**Confirmed**	B*35:165N	Unconfirmed	B*35:215	Unconfirmed	B*35:265	Unconfirmed
B*35:117	**Confirmed**	B*35:166	Unconfirmed	B*35:216N	Unconfirmed	B*35:266	Unconfirmed
B*35:118	Unconfirmed	**B*35:167**	**Confirmed**	**B*35:217**	**Confirmed**	B*35:267	Unconfirmed
B*35:119	Unconfirmed	B*35:168	Unconfirmed	B*35:218	Unconfirmed	B*35:268	Unconfirmed
B*35:120	**Confirmed**	**B*35:169**	**Confirmed**	**B*35:219**	**Confirmed**	B*35:269	Unconfirmed
B*35:121	**Confirmed**	B*35:170	Unconfirmed	B*35:220	Unconfirmed	**B*35:270**	**Confirmed**
B*35:122	Unconfirmed	B*35:171	Unconfirmed	B*35:221	Unconfirmed	**B*35:271**	**Confirmed**
B*35:123	Unconfirmed	B*35:172	Unconfirmed	B*35:222	Unconfirmed	B*35:272	Unconfirmed
B*35:124	**Confirmed**	B*35:173N	Unconfirmed	B*35:223	Unconfirmed	B*35:273	Unconfirmed
B*35:125	Unconfirmed	**B*35:174**	**Confirmed**	B*35:224	Unconfirmed	**B*35:274**	**Confirmed**
B*35:126	**Confirmed**	B*35:175	Unconfirmed	**B*35:225**	**Confirmed**	B*35:275	Unconfirmed
B*35:127	Unconfirmed	**B*35:176**	**Confirmed**	B*35:226	Unconfirmed	**B*35:276**	**Confirmed**
B*35:128	**Confirmed**	B*35:177	Unconfirmed	**B*35:227**	**Confirmed**	B*35:277	Unconfirmed
B*35:129N	Unconfirmed	B*35:178	Unconfirmed	**B*35:228**	**Confirmed**	**B*35:278**	**Confirmed**
B*35:130N	Unconfirmed	B*35:179	Unconfirmed	B*35:229	Unconfirmed	B*35:279	Unconfirmed
B*35:131	Unconfirmed	B*35:180	Unconfirmed	**B*35:230**	**Confirmed**	B*35:280	Unconfirmed
B*35:132	**Confirmed**	B*35:181	Unconfirmed	B*35:231	Unconfirmed	**B*35:281**	**Confirmed**
B*35:133	Unconfirmed	**B*35:182**	**Confirmed**	B*35:232	Unconfirmed	B*35:282	Unconfirmed
B*35:134N	Unconfirmed	B*35:183	Unconfirmed	**B*35:233**	**Confirmed**	B*35:283	Unconfirmed
B*35:135	Unconfirmed	B*35:184	Unconfirmed	B*35:234	Unconfirmed	B*35:284	Unconfirmed
B*35:136	**Confirmed**	B*35:185	Unconfirmed	B*35:235	Unconfirmed	B*35:285	Unconfirmed
B*35:137	**Confirmed**	B*35:186	Unconfirmed	B*35:236	Unconfirmed	B*35:286	Unconfirmed
B*35:138	Unconfirmed	B*35:187	Unconfirmed	B*35:237	Unconfirmed	B*35:287	Unconfirmed
B*35:139	Unconfirmed	B*35:188	Unconfirmed	B*35:238	Unconfirmed	B*35:288	Unconfirmed
B*35:140	Unconfirmed	B*35:189	Unconfirmed	B*35:239	Unconfirmed	B*35:289	Unconfirmed
B*35:141	**Confirmed**	B*35:190	Unconfirmed	B*35:240	Unconfirmed	B*35:290	Unconfirmed
B*35:142	Unconfirmed	**B*35:191**	**Confirmed**	B*35:241	Unconfirmed	B*35:291	Unconfirmed
B*35:143	Unconfirmed	B*35:192	Unconfirmed	B*35:242	Unconfirmed	B*35:292	Unconfirmed
B*35:144	**Confirmed**	**B*35:193**	**Confirmed**	B*35:243	Unconfirmed	**B*35:293**	**Confirmed**
B*35:145N	Unconfirmed	**B*35:194**	**Confirmed**	B*35:244	Unconfirmed	B*35:294	Unconfirmed
B*35:146	Unconfirmed	B*35:195	Unconfirmed	B*35:245	Unconfirmed	B*35:295	Unconfirmed
B*35:147	Unconfirmed	B*35:196	Unconfirmed	B*35:246	Unconfirmed	**B*35:296**	**Confirmed**

Lot No.: 5G0 **Lot-specific information**

Allele	Status[1]	Allele	Status[1]
B*35:297	Unconfirmed	B*35:307	Unconfirmed
B*35:298	Unconfirmed	B*35:308	Unconfirmed
B*35:299	Unconfirmed	B*35:309	Unconfirmed
B*35:300	Unconfirmed	B*35:310	Unconfirmed
B*35:301	Unconfirmed	B*35:311	Unconfirmed
B*35:302	Unconfirmed	B*35:312	Unconfirmed
B*35:303	Unconfirmed	B*35:313	Unconfirmed
B*35:304	Unconfirmed	B*35:314	Unconfirmed
B*35:305	Unconfirmed		
B*35:306	Unconfirmed		

[1]Allele status "confirmed" or "unconfirmed" as listed on the IMGT/HLA web page 2016-April-15, release 3.24.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B*35 homo- and heterozygotes is available upon request.

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101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 5G0

Lot-specific information

SPECIFICITY TABLE

HLA-B*35 SSP subtyping

Specificities and sizes of the PCR products of the 93+1 primer mixes used for HLA-B*35 SSP subtyping

Primer Mix	Size of spec. PCR product[1]	Size of control band[2]	Amplified HLA-B*35 alleles[3]	Other amplified Class I alleles
1[4]	95 bp	**800 bp**	*35:01:01:01-35:09:03, 35:11:01-35:12:04, 35:14:01-35:15:02, 35:17:01-35:18, 35:20:01-35:24:02, 35:27, 35:29:01-35:45, 35:48, 35:50-35:62, 35:64:01-35:68:02, 35:70-35:72, 35:74-35:75, 35:77-35:79, 35:81-35:153, 35:155-35:185, 35:187-35:190, 35:192-35:197, 35:199-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:225, 35:227-35:253, 35:255-35:269, 35:272-35:273, 35:275-35:310, 35:312-35:316, 35:319-35:360	*08:01:36, 08:32, 08:133, 08:180, 15:308, 18:01:01:01-18:11, 18:13-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:106, 18:108-18:124, 18:126-18:143, 37:08, 37:67, 38:06-38:07, 39:19:01-39:19:02, 44:06, 51:01:01:01-51:01:10, 51:01:12-51:24:05, 51:26-51:46, 51:48-51:103, 51:105-51:111, 51:113-51:117, 51:119-51:146, 51:148-51:229, 53:01:01-53:16, 53:18-53:27, 53:29, 53:31-53:37, 53:40-53:49, 78:01:01:01-78:04, 78:07-78:09
2	150 bp	1070 bp	*35:01:01:01-35:04:03, 35:06-35:08:10, 35:10-35:17:02, 35:19-35:21, 35:23-35:30, 35:33-35:36, 35:38-35:42:02, 35:45-35:50, 35:52, 35:54-35:57, 35:59:01-35:59:02, 35:61:01-35:63, 35:65Q, 35:69-35:71, 35:74, 35:76-35:78, 35:80-35:85, 35:90-35:96, 35:98, 35:100-35:101:02, 35:103-35:113, 35:115-35:116, 35:120-35:126, 35:128-35:134N, 35:136-35:150:02, 35:152-35:173:02N, 35:175-35:184, 35:186-35:198, 35:200-35:204, 35:206-35:229, 35:231, 35:233, 35:236-35:250, 35:252-35:259, 35:261-35:264, 35:266-35:272,	*07:235, 08:49, 13:01:01:01-13:01:12, 13:06-13:07N, 13:12:01-13:13:02, 13:17, 13:20, 13:22:01-13:23, 13:25-13:26:02, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 13:60-13:61, 13:63N, 13:73, 13:76N-13:80, 13:83, 13:86-13:87, 13:90, 13:92, 13:95, 13:106-13:107, 14:10, 15:02:01-15:02:11, 15:13:01-15:13:02, 15:20-15:21:01:02, 15:25:01-15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:88-15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 15:250, 15:265, 15:271, 15:283, 15:289, 15:291, 15:297, 15:301-15:302N, 15:308, 15:319, 15:325, 15:328, 15:330, 15:341, 15:345, 15:357-15:358, 15:366, 15:374, 15:378, 15:393-15:394, 15:399, 15:402, 15:404, 15:407, 15:418, 15:420, 15:425, 18:22, 18:69, 18:105, 27:19, 27:30, 27:127, 27:150, 37:01:01:01-37:01:07, 37:01:09, 37:01:11, 37:03N-37:06:02, 37:08, 37:10-37:11, 37:13-37:43, 37:45-37:50, 37:52-37:70, 38:20, 39:42, 40:28, 44:02:01:01-44:02:33, 44:02:35-44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46,

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4	280 bp	1070 bp	*35:01:01:01-35:01:47, 35:05:01:01-35:05:03, 35:07-35:08:10, 35:10-35:11:03, 35:14:01-35:17:02, 35:19-35:21, 35:23-35:30, 35:32:01-35:32:02, 35:35, 35:37, 35:40N-35:43:01, 35:45-35:54, 35:57-35:58, 35:61:01-35:64:02, 35:66-35:69, 35:71-35:72, 35:76-35:80, 35:82, 35:86, 35:89-35:94, 35:97, 35:99-35:105, 35:107-35:108:02, 35:110-35:126, 35:130N-35:135, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173:01N-35:178, 35:180, 35:185-35:192, 35:194, 35:196-35:197, 35:200, 35:202-35:203, 35:206-35:210, 35:212, 35:215-35:219, 35:222, 35:224-35:229, 35:232, 35:238-35:241, 35:244-35:245, 35:247-35:250, 35:252-35:255, 35:259-35:260, 35:262-35:265, 35:268-35:269, 35:271-35:272, 35:275, 35:277, 35:280, 35:283-35:284, 35:286-35:289, 35:293-35:295, 35:297, 35:299-35:308, 35:310, 35:313-35:315, 35:317-35:319, 35:322, 35:324-35:325, 35:327-35:328, 35:330-35:334, 35:336-35:338,	*07:09, 07:11, 07:17, 07:162, 07:235, 07:237, 07:255, 07:287, 08:28, 08:35, 08:37, 08:89, 08:107, 13:04, 13:10, 13:26:01-13:26:02, 13:72, 14:56, 15:01:01:01-15:01:04, 15:01:06-15:08:02, 15:11:01-15:16:03, 15:18:01:01-15:21:01:02, 15:23-15:29, 15:31-15:36, 15:38:01-15:40:02, 15:43-15:44, 15:46-15:47:02, 15:49-15:57, 15:60-15:62, 15:64:01-15:72, 15:74-15:76, 15:78:01-15:82, 15:84-15:85, 15:87-15:89, 15:91-15:98, 15:101-15:129, 15:131-15:132, 15:134-15:136, 15:138-15:149N, 15:151-15:161, 15:163-15:167, 15:169-15:176, 15:178-15:187, 15:189-15:195, 15:197:01-15:207, 15:209N-15:215, 15:217-15:223, 15:225-15:228, 15:231-15:232, 15:234-15:242:02, 15:244-15:247, 15:249-15:251, 15:254-15:268, 15:270-15:272N, 15:274-15:286, 15:288-15:302N, 15:304N-15:311, 15:314-15:322, 15:325-15:328, 15:330-15:333, 15:335-15:337, 15:340-15:341, 15:343-15:355, 15:357-15:360, 15:362-15:395, 15:397-15:399, 15:401-15:402, 15:404-15:410, 15:412-15:415, 15:417-15:419, 15:421-15:422, 15:425-15:426, 15:428-15:434, 18:01:01:01-18:15, 18:17N-18:25, 18:27-18:40, 18:42-18:60, 18:62-18:121, 18:123-18:143, 27:41, 27:107, 37:35, 37:56, 38:52, 39:07, 39:43, 39:91, 40:03:01:01-40:03:01:02, 40:20:01:01-40:20:01:02, 40:38, 40:52, 40:59-40:60, 40:105, 40:158-40:159, 40:222, 40:267, 40:284, 40:352, 41:24, 41:30, 41:51, 42:09, 44:17, 44:43:01-44:43:02, 44:144, 44:230, 44:256, 44:276, 45:09, 46:01:01-46:10, 46:12-46:17, 46:19-46:60, 46:62-46:69, 46:71-46:73, 48:02:01-48:02:03, 48:14, 48:23, 48:25, 49:04:01-49:05, 50:33, 51:37, 51:45, 51:63:01-51:63:02, 51:97, 51:216, 51:220, 52:39, 53:01:01-53:03, 53:05:01-53:06, 53:08:01-53:18, 53:20-53:30, 53:32, 53:34-53:35, 53:37-53:41, 53:43-53:49, 54:06, 54:09, 54:14, 55:14, 55:23, 55:32, 55:68, 56:03, 56:09, 56:18, 56:31-56:32, 56:50, 57:01:01:01-57:01:24, 57:06, 57:08, 57:10-57:11, 57:13-57:16, 57:18-57:27,

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64[4]	90 bp 245 bp	1070 bp	*35:130N *35:134N	
65[6]	220 bp	1070 bp	*35:148	
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87[4,6]	125 bp	1070 bp	*35:241	
88[6]	130 bp	1070 bp	*35:01:01:01-35:03:11, 35:03:13-35:03:17, 35:03:19-35:18, 35:20:01-35:24:02, 35:27-35:28, 35:30-35:45, 35:48, 35:50-35:62, 35:64:01-35:68:02, 35:70-35:72, 35:74-35:75,	*08:133, 15:202, 15:239, 15:308, 15:376, 18:01:01:01-18:01:01:08, 18:01:03-18:01:22, 18:01:24-18:02, 18:04:01-18:08, 18:10-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:53, 18:55-18:65, 18:67-18:93, 18:95-18:106, 18:109-18:124, 18:126-18:131:01:02, 18:133-18:135, 18:137-18:141, 18:143, 37:01:02, 37:11, 37:14, 37:29, 37:67, 40:185, 40:209, 40:308, 40:350, 40:365, 51:185, 52:01:29,

			35:77-35:135, 35:137-35:152, 35:155-35:185, 35:187-35:197, 35:199-35:202, 35:204-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:228, 35:230-35:242, 35:244-35:248, 35:250-35:253, 35:255-35:270, 35:272-35:273, 35:275-35:293, 35:295-35:304, 35:306-35:310, 35:312-35:315, 35:318-35:354, 35:356-35:360	52:09, 52:68, 53:05:01-53:05:02, 53:16, 53:33, 58:64, 78:02:01-78:02:02, 78:04-78:06, 78:09
89	240 bp	1070 bp	*35:236, 35:259, 35:333Q	*37:16Q, 44:29, 44:89, 44:160Q, **C*03:215, C*15:96Q**
90[4]	105 bp	**800 bp**	*35:46-35:47, 35:154, 35:207, 35:217, 35:257, 35:278	*08:155, 40:07-40:08, 40:13, 40:68, 40:106, 40:162, 40:220, 40:232, 41:46, 44:232, 51:74, 53:30
91	180 bp	1070 bp	*35:35, 35:93, 35:188, 35:190, 35:262, 35:277, 35:343	*08:37, 08:89, 08:107, 14:56, 15:50, 15:69, 15:93, 15:186, 15:199, 15:348, 15:368, 18:01:01:01-18:01:13, 18:01:15-18:01:17, 18:01:19-18:09, 18:11-18:15, 18:17N-18:19, 18:22-18:25, 18:27-18:34, 18:37-18:40, 18:42-18:49, 18:51-18:55, 18:59-18:60, 18:62-18:85, 18:87-18:96, 18:98-18:100, 18:102-18:105, 18:107-18:121, 18:123-18:143, 37:35, 37:56, 38:52, 39:07, 39:43, 39:91, 41:51, 42:09, 46:03, 46:21:01-46:21:02, 46:29, 54:09, 54:14, 55:14, 55:23, 55:68, 56:18, 56:31-56:32, 57:26, 58:05, 58:35, 58:76, 58:84, **C*01:102, C*06:89, C*07:123, C*07:173, C*07:294, C*08:113, C*12:113, C*15:09, C*15:19, C*15:27, C*15:61, C*15:107, C*15:126, C*15:143, C*16:20, C*16:109**
92	190 bp	1070 bp	*35:298	*46:39
93[7]	405 bp	1070 bp	*35:03:01:01-35:03:21, 35:06, 35:13, 35:33, 35:36, 35:38, 35:55, 35:59:01-35:59:02, 35:65Q, 35:70, 35:75, 35:84-35:85, 35:96, 35:98, 35:106, 35:109, 35:127-35:128, 35:136, 35:150:01-35:153, 35:155-35:156, 35:160, 35:163, 35:167, 35:169, 35:179, 35:181, 35:193, 35:195, 35:198, 35:204-35:205, 35:213, 35:221, 35:223, 35:231, 35:235-35:237, 35:242-35:243, 35:246, 35:256-35:257, 35:261, 35:267, 35:274,	*08:49, 08:69, 14:01:01:01-14:12, 14:14-14:20, 14:22, 14:24-14:32, 14:34-14:36, 14:38-14:52, 14:54-14:55, 14:57-14:59, 15:58, 15:133, 15:137, 15:229, 15:253, 18:122, 37:11, 37:14, 37:29, 37:37, 37:67, 38:03, 38:41, 38:47, 38:67, 39:01:01:01-39:01:01:07, 39:01:03:01-39:01:15, 39:01:17-39:06:05, 39:08-39:13:02, 39:15-39:16, 39:18-39:19:02, 39:22-39:26, 39:28, 39:30-39:42, 39:44-39:69, 39:71-39:90, 39:92-39:110, 39:112-39:123, 39:125, 39:127-39:131, 40:36, 40:77, 40:86, 40:184, 40:280, 40:314, 40:330, 41:18, 41:50, 45:02, 48:07, 48:17, 50:09, 53:33

			35:276, 35:278-35:279, 35:281-35:282, 35:290, 35:296, 35:298, 35:312, 35:320, 35:326, 35:329, 35:344, 35:349-35:350, 35:354, 35:358, 35:360
94[10]	-	-	**Negative Control**

[1]Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B*35 SSP typings.
When the primers in a primer mix can give rise to 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 inherit 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.
[2]The 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.
[3]For 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.
[4]HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.
[5]Primer mixes 22, 35, 41 and 58 may have a tendency to giving rise to primer oligomer formation.
[6]Primer mixes 3, 6, 7, 10, 30, 46, 50, 53, 65, 87 and 88 have tendencies of unspecific amplifications.
[7]Primer mixes 8, 17, 20 and 93 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B*35 primer mixes.
[8]Primer mix 7 may faintly amplify the B*44 alleles.
[9]Primer mix 14 may faintly amplify the B*37 alleles.
[10]Primer mix 94 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.
'w', might be weakly amplified.
'?', nucleotide sequence of the primer matching region not known.

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 5G0

Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	95	150	115	280	290	85	160	280	140	140	225	95
PCR product							330			205		125
										240		
Length of int.	800	1070	1070	1070	800	1070	800	1070	800	1070	800	1070
pos. control[1]												
5'-primer(s)[2]	201	355	412	419	397	419	142	419	363	49	355	206
	5' -CCA 3'	5' -TCA 3'	5' -ATg 3'	5' -gTC 3'	5' -gCT 3'	5' -gTA 3'	5' -TCA 3'	5' -gTT 3'	5' -AgC 3'	5' -CAg 3'	5' -TCA 3'	5' -gAC 3'
	206				412		368	419	363	388		
	5' -gAC 3'				5' -ATA 3'		5' -gTT 3'	5' -gTT 3'	5' -AgC 3'	5' -CCT 3'		
3'-primer(s)[3]	259	463	486	3rd I	3rd I	463	259	3rd I	463	85	538	259
	5' -gTT 3'	5' -gCT 3'	5' -gCg 3'	5' -TAT 3'	5' -TAT 3'	5' -gCT 3'	5' -gTT 3'	5' -TAT 3'	5' -gCT 3'	5' -CAA 3'	5' -CCg 3'	5' -CTC 3'
	259		486				3rd I			119		289
	5' -gTT 3'		5' -gCT 3'				5' -TAT 3'			5' -ggA 3'		5' -AgC 3'
										486		
										5' -gCg 3'		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	170	75	135	95	180	105	230	200	260	90	190	425
PCR product				190		180				270		
Length of int.	800	800	1070	1070	800	800	1070	1070	800	1070	800	1070
pos. control[1]												
5'-primer(s)[2]	527	355	463	112	106	206	106	141	49	209	379	49
	5' -TgA 3'	5' -TCA 3'	5' -TgA 3'	5' -CCg 3'	5' -CCA 3'	5' -gAC 3'	5' -CCA 3'	5' -ATT 3'	5' -CAg 3'	5' -ggC 3'	5' -ACC 3'	5' -CAg 3'
				206		419		412		355	379	
				5' -gAA 3'		5' -gTC 3'		5' -ATA 3'		5' -TCA 3'	5' -ATC 3'	
3'-primer(s)[3]	3rd I	387	559	259	246	272	292	309	142	259	527	301
	5' -TAT 3'	5' -TCC 3'	5' -CTC 3'	5' -gTT 3'	5' -TAT 3'	5' -Tgg 3'	5' -gTC 3'	5' -ATC 3'	5' -TgA 3'	5' -gTT 3'	5' -CCA 3'	5' -gTC 3'
						559	299	559		583	527	309
						5' -CgT 3'	5' -TCA 3'	5' -CTC 3'		5' -gTg 3'	5' -CCA 3'	5' -ATC 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 5G0 **Lot-specific information**

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	135	210	110	230	105	115	170	170	205	185	240	110
PCR product	220	370	160			325	210		310	230	365	180
												230
Length of int.	800	800	1070	800	1070	800	800	1070	1070	800	1070	800
pos. control[1]												
5'-primer(s)[2]	206	72	142	369	357	49	103	165	409	368	272	355
	5'-gAC 3'	5'-gCT 3'	5'-TCA 3'	5'-TAC 3'	5'-Tgg 3'	5'-CAg 3'	5'-CCT 3'	5'-ACC 3'	5'-ggC 3'	5'-gTC 3'	5'-CTT 3'	5'-TCA 3'
	477	103	355			486	103		742	416	808	635
	5'-gCC 3'	5'-CCT 3'	5'-TCA 3'			5'-ACC 3'	5'-CCT 3'		5'-ACA 3'	5'-CCg 3'	5'-CgC 3'	5'-ACg 3'
		103					142					641
		5'-CCT 3'					5'-TCT 3'					5'-gAT 3'
												704
												5'-TgA 3'
3'-primer(s)[3]	302	272	259	559	419	204	272	292	572	559	353	544
	5'-ggT 3'	5'-TgA 3'	5'-gTT 3'	5'-CAg 3'	5'-Cgg 3'	5'-TCT 3'	5'-TgA 3'	5'-gTC 3'	5'-gCg 3'	5'-CAg 3'	5'-ggg 3'	5'-ggT 3'
	3rd I		425		419	559			916		916	774
	5'-TAT 3'		5'-CgC 3'		5'-CgA 3'	5'-CTC 3'			5'-gAT 3'		5'-gAT 3'	5'-ggT 3'
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	85	300	115	185	110	115	205	110	165	165	160	390
PCR product						155	255	145				
						190		300				
						250						
Length of int.	1070	800	1070	1070	1070	800	1070	1070	800	800	800	1070
pos. control[1]												
5'-primer(s)[2]	420	390	463	167	206	106	106	206	652	652	419	49
	5'-TTA 3'	5'-gAT 3'	5'-TgA 3'	5'-gCT 3'	5'-gAC 3'	5'-CCA 3'	5'-CCg 3'	5'-gAC 3'	5'-CCg 3'	5'-CCA 3'	5'-gTT 3'	5'-CAg 3'
		397				355	363	355				
		5'-gCT 3'				5'-TCA 3'	5'-AgC 3'	5'-TCA 3'				
							363					
							5'-AgC 3'					
3'-primer(s)[3]	463	3rd I	538	311	272	181	272	277	774	774	538	272
	5'-gCT 3'	5'-TAT 3'	5'-CCA 3'	5'-ggT 3'	5'-TgC 3'	5'-gTg 3'	5'-TgA 3'	5'-ggC 3'	5'-ggT 3'	5'-ggT 3'	5'-gTC 3'	5'-TgA 3'
					280	471	577	309				
					5'-gTC 3'	5'-.TC 3'	5'-gCA 3'	5'-gTg 3'				
						505		614				
						5'-gCT 3'		5'-CgT 3'				
						564						
						5'-ACC 3'						
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 5G0 **Lot-specific information**

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	385	170	65	220	135	160	205	140	150	110	75	90
PCR product			155	250	220	190	300	225	185	160	150	135
			185							200		
Length of int.	800	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	800
pos. control[1]												
5'-primer(s)[2]	272	206	190	355	106	206	49	115	106	106	352	367
	5' -CTT 3'	5' -gAC 3'	5' -ACT 3'	5' -TCA 3'	5' -CCA 3'	5' -gAC 3'	5' -CAg 3'	5' -ggA 3'	5' -CCA 3'	5' -CCA 3'	5' -ACg 3'	5' -TgC 3'
			199			355		136		419	431	412
			5' -gTg 3'			5' -TCA 3'		5' -gCC 3'		5' -gTC 3'	5' -CgA 3'	5' -ATC 3'
			416					211				
			5' -CCg 3'					5' -AgT 3'				
			533									
			5' -ggg 3'									
3'-primer(s)[3]	369	331	311	532	200	325	85	311	214	176	463	463
	5' -CCg 3'	5' -CTA 3'	5' -ggT 3'	5' -CTg 3'	5' -TCA 3'	5' -gTg 3'	5' -CAA 3'	5' -ggT 3'	5' -CCC 3'	5' -ACT 3'	5' -gCT 3'	5' -gCT 3'
	369	343	559	565	286	331	178		250	267		
	5' -CCg 3'	5' -T 3'	5' -CAg 3'	5' -CAg 3'	5' -CTA 3'	5' -CTA 3'	5' -gAg 3'		5' -CCC 3'	5' -ATA 3'		
		343				506	180			538		
		5' -g 3'				5' -TgT 3'	5' -TCC 3'			5' -gTC 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.	110	140	55	90	220	90	105	90	95	135	120	220
PCR product	175	260		245		115	200		325		160	
	265											
Length of int.	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	800	1070
pos. control[1]												
5'-primer(s)[2]	106	355	397	106	134	387	106	167	106	363	344	477
	5' -CCA 3'	5' -TCA 3'	5' -gCT 3'	5' -CCA 3'	5' -CCT 3'	5' -TCC 3'	5' -CCA 3'	5' -gCT 3'	5' -CCA 3'	5' -AgT 3'	5' -A 3'	5' -gCC 3'
				804		413		463	727	365	383	
				5' -TgA 3'		5' -TgT 3'		5' -TgA 3'	5' -Agg 3'	5' -gAA 3'	5' -ggC 3'	
										375		
										5' -TgA 3'		
3'-primer(s)[3]	176	456	412	153	311	463	171	206	160	463	463	3rd I
	5' -ACT 3'	5' -TCg 3'	5' -gTC 3'	5' -ACT 3'	5' -ggT 3'	5' -gCT 3'	5' -ACC 3'	5' -CCg 3'	5' -gTT 3'	5' -gCT 3'	5' -gCT 3'	5' -TAT 3'
	239	575		916			265	524	916			
	5' -gCT 3'	5' -ggg 3'		5' -gAT 3'			5' -CTC 3'	5' -CAT 3'	5' -gAT 3'			
	332											
	5' -TCC 3'											
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 5G0 **Lot-specific information**

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	205	160	90	145	135	310	100	110	80	200	95	130
PCR product			135	220	180				120		180	
				375	385				260			
Length of int.	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
pos. control[1]												
5'-primer(s)[2]	390	106	206	134	320	742	406	106	106	133	652	206
	5' -gAT 3'	5' -CCA 3'	5' -gAC 3'	5' -CCC 3'	5' -CgA 3'	5' -ACA 3'	5' -gCC 3'	5' -CCA 3'	5' -CCA 3'	5' -CCT 3'	5' -CCg 3'	5' -gAC 3'
	397			209	652							
	5' -gCT 3'			5' -ggA 3'	5' -CCg 3'							
				673								
				5' -CCA 3'								
3'-primer(s)[3]	560	218	253	311	419	916	463	170	146	292	704	289
	5' -ACA 3'	5' -gCT 3'	5' -gTT 3'	5' -ggT 3'	5' -CgA 3'	5' -gAT 3'	5' -gCT 3'	5' -Cgg 3'	5' -CCT 3'	5' -gTA 3'	5' -CCA 3'	5' -AgC 3'
		224	302	916	746			187	187		791	301
		5' -TCT 3'	5' -ggT 3'	5' -gAT 3'	5' -gAA 3'			5' -gTg 3'	5' -gTg 3'		5' -AgA 3'	5' -gCA 3'
		225			791				323			
		5' -ATT 3'			5' -AgA 3'				5' -AgA 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
Length of spec.	415	500	125	130	240	105	180	190	405
PCR product									
Length of int.	1070	1070	1070	1070	1070	800	1070	1070	1070
pos. control[1]									
5'-primer(s)[2]	25	141	691	201	355	193	419	625	302
	5' -CCC 3'	5' -ATT 3'	5' -TgT 3'	5' -CCA 3'	5' -TCA 3'	5' -CCA 3'	5' -gTC 3'	5' -CCA 3'	5' -gAg 3'
				206					
				5' -gAC 3'					
3'-primer(s)[3]	272	353	774	292	544	272	559	774	419
	5' -TgA 3'	5' -TgA 3'	5' -ggT 3'	5' -gTA 3'	5' -ggT 3'	5' -TgA 3'	5' -CgT 3'	5' -ggT 3'	5' -CgA 3'
					563				
					5' -CgT 3'				
Well No.	85	86	87	88	89	90	91	92	93

[1]The 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.

[2]The 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.

[3]The 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.

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101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 5G0 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*35 SSP subtyping[2]

					Well[3]															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:	201893101	201893102	201893103	201893104	201893105	201893106	201893107	201893108	201893109	201893110	201893111	201893112	201893113	201893114	201893115	201893116
	IHWC cell line[1]		B*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	+	+	w	-	-	-	-	+	+	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	+	+	-	-	-	-	-	+	+	-	-	-
4	9275	GU373	*15:10	*53:01	+	+	+	+	-	+	-	-	-	-	-	-	+	-	-	-
5	9009	KAS011	*37:01		-	+	-	-	-	-	-	-	-	-	-	+	-	-	-	-
6	9353	SM	*39:01	*51:01	+	-	-	-	+	+	-	+	-	-	-	-	+	-	-	-
7	9020	QBL	*18:01		+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
12	9052	DBB	*57:01		-	+	-	+	-	-	-	-	-	-	-	-	-	+	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
14	9071	OLGA	*15:01	*15:20	-	+	+	+	-	-	-	-	-	-	-	-	+	-	-	-
15	9075	DKB	*40:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	+	-	-	+	-	-	-	-	+	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	+	-	-	+	-	-	-	-	+	-	-	-
19	9038	BM16	*18:01		+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-
22	9056	KOSE	*35:03		+	+	+	-	-	-	-	+	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
26	9285	WT49	*58:01		-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	+	-	-	-	+	+	-	-	-	-	-	-	+	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
29	9050	MOU	*44:03		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
30	9021	RSH	*42:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
36	9024	KT17	*15:01	*35:01	+	+	+	+	-	-	-	-	-	-	-	-	+	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
38	9099	LZL	*15:01		-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	+	+	-	-	+	-	-	-	-	+	-	+	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
42	9066	TAB089	*46:01		-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-
43	9076	T7526	*46:01		-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-
44	9057	TEM	*38:01		-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
47	9045	TUBO	*51:01		+	-	-	-	+	+	-	-	-	-	-	-	+	-	-	-
48	9303	TER-ND	*35:01	*44:03	+	+	+	+	-	-	-	-	-	-	-	-	-	+	-	-

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

Visit https://labproducts.caredx.com for **"Instructions for Use" (IFU)**

Lot No.: 5G0 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*35 SSP subtyping[2]

					Well[3]															
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
				Prod. No.:	201893117	201893118	201893119	201893120	201893121	201893122	201893123	201893124	201893125	201893126	201893127	201893128	201893129	201893130	201893131	201893132
	IHWC cell line[1]		B*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+
2	9280	LK707	*52:01	*73:01	-	+	-	-	-	-	-	+	-	-	w	-	+	-	-	-
3	9011	E4181324	*52:01		-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	+	+	-	-	-	+	-	-	-	-
5	9009	KAS011	*37:01		-	+	-	-	+	-	-	+	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	+	+	-	-	-	-	+	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
15	9075	DKB	*40:01		-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-
18	9257	32367	*14:01	*56:01	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01		-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	+	+	-	-	+	-	+	-	-	+	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	+	-	-	-	+	+	-	-	-	-	-	-	+
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019	DUCAF	*18:01		-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	+	-	-	-	-	+	+	-	-	-	-	+	+	-
40	9134	WHONP199	*13:02	*46:01	-	-	+	+	-	-	+	-	-	-	-	+	-	+	-	+
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	+
43	9076	T7526	*46:01		-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	+
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+
47	9045	TUBO	*51:01		-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

Visit https://labproducts.caredx.com for **"Instructions for Use" (IFU)**

Lot No.: 5G0 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*35 SSP subtyping[2]

					Well[3]															
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
				Prod. No.:	201893133	201893134	201893135	201893136	201893137	201893138	201893139	201893140	201893141	201893142	201893143	201893144	201893145	201893146	201893147	201893148
	IHWC cell line[1]		B*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	+	w	-	+
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	w	-	-
10	9107	LKT3	*54:01		-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	+	-	-	-	-	-	+	+	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+
23	9124	IHL	*40:02	*56:02	-	-	-	-	+	-	-	+	-	-	-	-	-	+	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	w	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	+	+	w	+
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	w	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	+	-	-	-	-	-	+	+	-	+
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	+	-	+	-	-	-	-	-	-	+	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	w	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	+	-	-	-	-	-	-	+	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	w	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	+	-	-	+	-	-	-	-	-	+	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	w	+
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 5G0 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*35 SSP subtyping[2]

					Well[3]															
					49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				Prod. No.:	201893149	201893150	201893151	201893152	201893153	201893154	201893155	201853156	201893156	201893157	201893158	201893160	201893161	201863162	201893163	201893164
	IHWC cell line[1]		B*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	.	-	-	-	.	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

Visit https://labproducts.caredx.com for **"Instructions for Use" (IFU)**

Lot No.: 5G0 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*35 SSP subtyping[2]

					Well[3]															
					65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				Prod. No.:	201893165	201893166	201893167	201893168	201893169	201893170	201893171	201893172	201893173	201893174	201893175	201893176	201893177	201893178	201893179	201893180
	IHWC cell line[1]		B*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.522-24/03 – including *Taq* pol., IFU-01
101.522-24u/03u – without *Taq* pol., IFU-02

Visit https://labproducts.caredx.com for **"Instructions for Use" (IFU)**

Lot No.: 5G0 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*35 SSP subtyping[2]

					Well[3]												
					81	82	83	84	85	86	87	88	89	90	91	92	93
				Prod. No.:	201893181	201893182	201893183	201893184	201893185	201893186	201893187	201893188	201893189	201893190	201893191	201893192	201893193
	IHWC cell line[1]		B*														
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	+
7	9020	QBL	*18:01		-	-	-	-	-	-	-	+	-	-	+	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	+	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	+
19	9038	BM16	*18:01		-	-	-	-	-	-	-	+	-	-	+	-	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	+	-	-	-	-	+
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	+
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	+	-	-	+	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	+	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	+
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	+	-	-	-	-	-

Lot No.: 5G0 **Lot-specific information**

[1]The 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.

[2]The 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.

[3]The C*07:04 allele is weakly amplified by primer mix 47 in the 9045 (TUBO) cell line.

No DNAs carrying the alleles to be amplified by primer solutions 10, 35, 36, 41 to 44, 50 to 71, 74, 76 to 84, 86, 87, 89 and 92 were available.

The specificities of the primers in primer solutions 10, 35, 36, 41, 43, 44, 50, 58, 61, 63, 64, 68, 69, 77 and 86 were tested by separately adding one or two additional 5'-primers, respectively one, two or three additional 3'-primers.

In primer solutions 42, 52 to 55, 57, 62, 67, 74, 80, 81, 83, 84 and 89 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 51, 56, 59, 60, 65, 66, 70, 71, 76, 78, 79, 82, 87 and 92 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 10, 16, 33 to 36, 38, 64, 69, 73 and 77 one, two or three of the 5'-primers were not possible to test, and in primer solutions 1, 10, 12, 41, 43, 44, 49, 50, 58, 61, 64, 69, 75 and 77 one or two of the 3'-primers were not possible to test.

Additional primers in primer solutions 1, 3, 22, 26, 31, 33 and 88 were tested by separately adding one 5'-primer and/or one or two 3'-primers.

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