

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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

Lot No.: **5F8**

Lot-specific information
Olerup SSP® HLA-B*40

Product number:	101.523-24/03 – including <i>Taq</i> pol. 101.523-24u/03u – without <i>Taq</i> pol.
Lot number:	5F8
Expiry date:	2020-04-01
Number of tests:	24 tests – Product No. 101.523-24/24u 3 tests – Product No. 101.523-03/03u
Number of wells per test:	94+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. 5F8.

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*40 LOT (9D1)**

The HLA-B*40 kit is updated for new alleles to enable separation of:

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

The format of the Worksheet has been changed.

One well has been added to HLA-B*40, well **95**.

¹As described in section Uniquely Identified Alleles.

The HLA-B*40 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous Olerup SSP® HLA-B*40 lot was made (**Lot No. 9D1**). The kit design is based on IMGT/HLA database 3.28.0.

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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	-	5'-primer added for the B*40:06:15 allele.
24	Added	-	5'-primer added for the B*40:334 allele.
31	Modified	-	5'-primer modified for improved HLA-specific amplification.
32	Added	-	5'-primer added for the B*40:06:15 allele.
36	Added	-	5'-primer added for the B*40:273 allele.
42	Added	-	5'-primer added for the B*40:273 allele.
47	Added	Modified	5'-primer added for the B*40:318 allele, 3'-primer modified for decreased tendency of primer oligomer formation.
51	Added	-	5'-primer added for the B*40:345N allele.
57	Exchanged	Exchanged	Primer pair exchanged for improved HLA-specific amplification.
59	Added	-	5'-primers added for the B*40:331 and B*40:346 alleles.
67	-	Added	3'-primer added for the B*40:320 allele.
68	-	Added	3'-primer added for the B*40:320 allele.
73	Added	-	5'-primer added for the B*40:329 allele.
80	Added	-	5'-primer added for the B*40:334 allele.
82	Added	-	5'-primers added for the B*40:311, B*40:331 and B*40:346 alleles.
83	-	Added	3'-primer added for the B*40:348 allele.
85	Added	Added	Primer pair added for the B*40:337N allele.
90	Added	-	5'-primer added for the B*40:329 allele.
91	-	Added	3'-primer added for the B*40:338N allele.
93	-	Added	3'-primer added for the B*40:335 allele.
94	Added	Added	Negative control moved to well 95, primer pair added for the B*40:353 allele.
95	-	-	Negative control added from well 94.

Changes in revision R01 compared to R00:

1. The reactivities of primer mix 94 have been corrected in the Specificity and Interpretation Tables.

Changes in revision R02 compared to R01:

1. Primer mix 46 may give rise to a lower yield of HLA-specific PCR product than the other B*40 primer mixes. A footnote has been added in the Specificity Table.

Changes in revision R03 compared to R02:

1. Primer mix 46 may give rise to a most pronounced lower yield of HLA-specific PCR product than the other B*40 primer mixes. The footnote has been changed in the Specificity Table.

Changes in revision R05 compared to R03:

1. Primer mix 44 does not amplify the B*40:78 allele. The correction has been implemented in the Specificity and Interpretation tables.

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Well **95** 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'-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-B*40 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*40:01 to B*40:355 alleles.

PLATE LAYOUT

Each test consists of 95 PCR reactions in a 96 well cut PCR plate. Well 96 is 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	94	NC	empty

The 96 well PCR plate is marked with 'HLA-B*40' in silver/gray ink.

Well No. 1 is marked with the Lot No. '5F8'.

Wells 1 to 94 – HLA-B*40 high resolution primers.

Well 95 – 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*40 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*40 alleles, i.e. **B*40:01 to B*40:355**, recognized by the HLA Nomenclature Committee in April 2017^{1,2} will be amplified by the primers in the HLA-B*40 subtyping kit.

The HLA-B*40 kit enables separation of the confirmed HLA-B*40 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-B*40 alleles is listed below.

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The HLA-B*40 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The following HLA-B*40 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
B*40:69, 40:221	56

¹HLA-B alleles listed on the IMGT/HLA web page 2017-April-13, release 3.28.0, 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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ALLELE CONFIRMATION STATUS

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

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B*40:98	Unconfirmed	B*40:145	Confirmed	B*40:192	Unconfirmed	B*40:242	Unconfirmed
B*40:99	Confirmed	B*40:146	Unconfirmed	B*40:193	Unconfirmed	B*40:243	Unconfirmed
B*40:100	Unconfirmed	B*40:147	Unconfirmed	B*40:194	Unconfirmed	B*40:244	Unconfirmed
B*40:101	Unconfirmed	B*40:148	Confirmed	B*40:195	Unconfirmed	B*40:245	Unconfirmed
B*40:102	Confirmed	B*40:149	Unconfirmed	B*40:196	Unconfirmed	B*40:246	Unconfirmed
B*40:103	Confirmed	B*40:150	Confirmed	B*40:197	Confirmed	B*40:247	Unconfirmed
B*40:104	Unconfirmed	B*40:151	Unconfirmed	B*40:198	Unconfirmed	B*40:248	Unconfirmed
B*40:105	Confirmed	B*40:152	Unconfirmed	B*40:199	Unconfirmed	B*40:249	Confirmed
B*40:106	Unconfirmed	B*40:153	Unconfirmed	B*40:200	Unconfirmed	B*40:250	Unconfirmed
B*40:107	Confirmed	B*40:154	Unconfirmed	B*40:201	Confirmed	B*40:251	Unconfirmed
B*40:108	Unconfirmed	B*40:155:01N	Confirmed	B*40:202	Unconfirmed	B*40:252	Unconfirmed
B*40:109	Unconfirmed	B*40:155:02N	Unconfirmed	B*40:203	Unconfirmed	B*40:253	Unconfirmed
B*40:110	Confirmed	B*40:156	Unconfirmed	B*40:204	Unconfirmed	B*40:254	Unconfirmed
B*40:111	Confirmed	B*40:157	Confirmed	B*40:205	Unconfirmed	B*40:255	Confirmed
B*40:112	Unconfirmed	B*40:158	Unconfirmed	B*40:206	Unconfirmed	B*40:256N	Unconfirmed
B*40:113	Confirmed	B*40:159	Unconfirmed	B*40:207	Unconfirmed	B*40:257	Unconfirmed
B*40:114:01	Confirmed	B*40:160:01	Unconfirmed	B*40:208	Unconfirmed	B*40:258	Unconfirmed
B*40:114:02	Unconfirmed	B*40:160:02	Confirmed	B*40:209	Unconfirmed	B*40:259	Unconfirmed
B*40:115	Confirmed	B*40:161	Unconfirmed	B*40:210	Unconfirmed	B*40:260	Unconfirmed
B*40:116	Confirmed	B*40:162	Unconfirmed	B*40:211	Unconfirmed	B*40:261	Unconfirmed
B*40:117	Unconfirmed	B*40:163	Unconfirmed	B*40:212	Unconfirmed	B*40:262	Unconfirmed
B*40:118N	Unconfirmed	B*40:164	Unconfirmed	B*40:213	Unconfirmed	B*40:263N	Unconfirmed
B*40:119	Confirmed	B*40:165	Unconfirmed	B*40:214	Unconfirmed	B*40:264	Unconfirmed
B*40:120	Unconfirmed	B*40:166	Unconfirmed	B*40:215	Unconfirmed	B*40:265N	Unconfirmed
B*40:121	Unconfirmed	B*40:167	Unconfirmed	B*40:216N	Unconfirmed	B*40:266	Unconfirmed
B*40:122	Confirmed	B*40:168	Confirmed	B*40:217	Unconfirmed	B*40:267	Unconfirmed
B*40:123	Unconfirmed	B*40:169	Unconfirmed	B*40:218	Unconfirmed	B*40:268	Confirmed
B*40:124:01	Unconfirmed	B*40:170	Unconfirmed	B*40:219	Unconfirmed	B*40:269	Unconfirmed
B*40:124:02	Unconfirmed	B*40:171	Confirmed	B*40:220	Unconfirmed	B*40:270	Unconfirmed
B*40:125	Unconfirmed	B*40:172	Confirmed	B*40:221	Unconfirmed	B*40:271	Unconfirmed
B*40:126	Unconfirmed	B*40:173	Unconfirmed	B*40:222	Unconfirmed	B*40:272	Unconfirmed
B*40:127	Confirmed	B*40:174	Unconfirmed	B*40:223	Unconfirmed	B*40:273	Confirmed
B*40:128	Unconfirmed	B*40:175	Confirmed	B*40:224	Unconfirmed	B*40:274	Unconfirmed
B*40:129	Confirmed	B*40:176	Confirmed	B*40:225	Confirmed	B*40:275	Unconfirmed
B*40:130:01	Unconfirmed	B*40:177	Unconfirmed	B*40:226	Unconfirmed	B*40:276	Unconfirmed
B*40:130:02	Confirmed	B*40:178	Confirmed	B*40:227	Unconfirmed	B*40:277	Unconfirmed
B*40:131	Unconfirmed	B*40:179	Unconfirmed	B*40:228	Unconfirmed	B*40:278	Unconfirmed
B*40:132	Unconfirmed	B*40:180	Confirmed	B*40:229	Confirmed	B*40:279	Unconfirmed
B*40:133Q	Unconfirmed	B*40:181	Unconfirmed	B*40:230	Unconfirmed	B*40:280	Unconfirmed
B*40:134	Unconfirmed	B*40:182	Confirmed	B*40:231	Unconfirmed	B*40:281	Unconfirmed
B*40:135	Confirmed	B*40:183	Confirmed	B*40:232	Unconfirmed	B*40:282	Unconfirmed
B*40:136	Unconfirmed	B*40:184	Unconfirmed	B*40:233	Unconfirmed	B*40:283	Unconfirmed
B*40:137	Unconfirmed	B*40:185	Unconfirmed	B*40:234	Confirmed	B*40:284	Unconfirmed
B*40:138	Unconfirmed	B*40:186:01	Unconfirmed	B*40:235	Unconfirmed	B*40:285	Unconfirmed
B*40:139	Unconfirmed	B*40:186:02	Unconfirmed	B*40:236	Unconfirmed	B*40:286N	Unconfirmed
B*40:140	Unconfirmed	B*40:187	Unconfirmed	B*40:237	Confirmed	B*40:287	Unconfirmed
B*40:141	Unconfirmed	B*40:188	Unconfirmed	B*40:238	Unconfirmed	B*40:288	Unconfirmed
B*40:142N	Unconfirmed	B*40:189	Unconfirmed	B*40:239	Unconfirmed	B*40:289	Unconfirmed
B*40:143	Unconfirmed	B*40:190	Unconfirmed	B*40:240	Unconfirmed	B*40:290	Unconfirmed
B*40:144N	Unconfirmed	B*40:191	Unconfirmed	B*40:241	Unconfirmed	B*40:291N	Unconfirmed

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Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*40:292	Confirmed	B*40:312	Unconfirmed	B*40:332	Unconfirmed	B*40:352	Unconfirmed
B*40:293	Unconfirmed	B*40:313	Unconfirmed	B*40:333	Unconfirmed	B*40:353	Unconfirmed
B*40:294	Confirmed	B*40:314	Unconfirmed	B*40:334	Confirmed	B*40:354	Unconfirmed
B*40:295	Confirmed	B*40:315	Unconfirmed	B*40:335	Confirmed	B*40:355	Confirmed
B*40:296	Unconfirmed	B*40:316	Unconfirmed	B*40:336	Unconfirmed		
B*40:297	Unconfirmed	B*40:317	Unconfirmed	B*40:337N	Unconfirmed		
B*40:298	Unconfirmed	B*40:318	Confirmed	B*40:338N	Unconfirmed		
B*40:299	Unconfirmed	B*40:319	Unconfirmed	B*40:339	Unconfirmed		
B*40:300	Unconfirmed	B*40:320	Confirmed	B*40:340	Unconfirmed		
B*40:301	Unconfirmed	B*40:321	Unconfirmed	B*40:341	Unconfirmed		
B*40:302	Unconfirmed	B*40:322	Unconfirmed	B*40:342	Unconfirmed		
B*40:303	Confirmed	B*40:323	Unconfirmed	B*40:343	Unconfirmed		
B*40:304	Unconfirmed	B*40:324	Unconfirmed	B*40:344	Unconfirmed		
B*40:305	Unconfirmed	B*40:325	Unconfirmed	B*40:345N	Unconfirmed		
B*40:306	Unconfirmed	B*40:326	Unconfirmed	B*40:346	Confirmed		
B*40:307	Unconfirmed	B*40:327	Unconfirmed	B*40:347	Unconfirmed		
B*40:308	Unconfirmed	B*40:328	Unconfirmed	B*40:348	Confirmed		
B*40:309	Confirmed	B*40:329	Unconfirmed	B*40:349	Unconfirmed		
B*40:310	Confirmed	B*40:330	Unconfirmed	B*40:350	Unconfirmed		
B*40:311	Confirmed	B*40:331	Confirmed	B*40:351	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2017-April-13, release 3.2.8.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-B*40 homo- and heterozygotes is available upon request.

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Lot-specific information
SPECIFICITY TABLE

HLA-B*40 SSP subtyping

Specificities and sizes of the PCR products of the 94+1 primer mixes used for
HLA-B*40 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*40 alleles ³	Other amplified HLA class I alleles
1	175 bp	800 bp	*40:01:01-40:01:49, 40:07, 40:10:01:01-40:10:02, 40:12, 40:21-40:23, 40:25, 40:33, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:51-40:52, 40:54-40:55, 40:60-40:63, 40:65-40:67, 40:69, 40:73-40:74, 40:76, 40:79, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:112-40:114:02, 40:116-40:118N, 40:123-40:126, 40:128, 40:130:01-40:130:02, 40:132, 40:134-40:135, 40:138-40:141, 40:146-40:147, 40:149-40:156, 40:163, 40:166, 40:168, 40:170-40:172, 40:175, 40:178-40:179, 40:182-40:183, 40:185-40:188, 40:191, 40:193-40:196, 40:198-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:234-40:236, 40:238-40:242, 40:245, 40:247, 40:249-40:253, 40:257-40:265N, 40:272-40:273, 40:277-40:282, 40:285-40:286N, 40:288, 40:299-40:301, 40:308, 40:310, 40:312, 40:315, 40:319, 40:321, 40:323-40:329, 40:332-40:333, 40:336, 40:338N-40:339, 40:344, 40:346, 40:352-40:353, 40:355	*15:116, 15:124, 15:352, 15:412, 27:125, 38:63, 44:31, 46:06, 46:43, 48:03:01-48:03:02, 48:23, 48:40, C*05:136, C*17:16
2	215 bp	800 bp	*40:01:01-40:06:16, 40:09, 40:11:01-40:11:02, 40:14:01-40:16, 40:18-40:20, 40:22N-40:27:01, 40:28-40:39, 40:42-40:48, 40:50-40:57,	*13:23, 13:55, 15:71, 15:175, 15:204, 15:210, 15:212, 15:225, 15:344, 15:381, 18:01:01:01-18:03, 18:05-18:06, 18:08-18:15, 18:17N-18:24, 18:26-18:28, 18:30-18:32, 18:34-18:42, 18:44:01-18:78, 18:80-18:106,

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3	130 bp	1070 bp	*40:02:01:01-40:06:16, 40:08- 40:09, 40:11:01-40:11:02, 40:13, 40:18-40:20, 40:24, 40:26-40:29, 40:35:01- 40:35:02, 40:37, 40:39, 40:40 ^w , 40:44, 40:50, 40:56- 40:57, 40:64, 40:68, 40:70:01- 40:71, 40:74-40:75, 40:78, 40:82, 40:85-40:86, 40:89- 40:91, 40:94-40:99, 40:103- 40:105, 40:107, 40:109, 40:111, 40:115, 40:119- 40:120, 40:122, 40:127, 40:131, 40:133Q, 40:142N- 40:145, 40:148-40:149, 40:157, 40:159, 40:161- 40:162, 40:165, 40:167, 40:169, 40:173-40:174, 40:176, 40:180-40:181, 40:184, 40:189-40:190, 40:200-40:203, 40:205- 40:206, 40:210-40:211, 40:214, 40:220, 40:224- 40:226, 40:229-40:230, 40:232, 40:243-40:244, 40:246, 40:248, 40:254- 40:256N, 40:266-40:271, 40:274-40:276, 40:283- 40:284, 40:287, 40:289- 40:293, 40:295-40:297, 40:302-40:307, 40:309, 40:311, 40:313-40:314, 40:317-40:318, 40:320, 40:322, 40:330-40:331, 40:334-40:335, 40:337N, 40:340-40:341, 40:343, 40:345N, 40:347-40:351, 40:354	*18:48, 44:103, 44:131, 44:212, 44:224, 49:31, 50:43
4⁴	95 bp	800 bp	*40:02:01:01-40:02:15, 40:02:17-40:02:25, 40:05:01:01-40:05:01:02,	*07:02:01:01-07:02:37, 07:02:40-07:06:02, 07:08:01-07:08:02, 07:10, 07:13, 07:15- 07:16, 07:19-07:76, 07:79-07:83,

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5	190 bp	800 bp	*40:03, 40:18, 40:20, 40:24, 40:31-40:33, 40:44, 40:52, 40:59, 40:98, 40:120, 40:159, 40:267, 40:284, 40:352	*07:02:01:01-07:02:09, 07:02:11-07:02:17, 07:02:19-07:02:45, 07:02:47-07:04, 07:07-07:13, 07:15-07:16, 07:18:01-07:18:02, 07:21-07:23, 07:25-07:27, 07:29-07:30, 07:33:01-07:33:03, 07:35-07:39, 07:41-07:42, 07:44N-07:52, 07:54-07:59, 07:61-07:68:03, 07:70-07:73, 07:75-07:77, 07:79, 07:81-07:89, 07:91-07:95, 07:98-07:99, 07:101-07:104, 07:106-07:111N, 07:113-07:114, 07:116-07:122, 07:124-07:130, 07:132-07:136:02, 07:139, 07:141-07:153, 07:155-07:167N, 07:169-07:171, 07:173-07:175, 07:177-07:181N, 07:183-07:190, 07:192-07:196, 07:198-07:200, 07:202-07:205, 07:208, 07:211-07:212, 07:215-07:219, 07:221, 07:224, 07:226-07:234, 07:236-07:248, 07:250-07:257, 07:259, 07:261, 07:263, 07:265-07:268, 07:271-07:277, 07:279-07:282, 07:285N-07:286, 07:288-07:292, 07:294, 08:156, 13:26:01-13:26:02, 13:35, 13:72, 15:40:01-15:40:02, 15:47:01-15:47:02, 15:49, 15:52, 15:114, 15:117, 15:124, 15:138, 15:238, 15:241, 15:389, 15:421, 18:10, 18:21, 18:35, 18:50, 27:34, 27:41, 27:136, 35:15:01-35:15:02, 35:33, 35:66, 35:86, 35:341, 37:07, 46:06, 46:25, 46:30, 48:08, 48:23, 57:13, 57:25, 58:37,

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6⁴	95 bp	1070 bp	*40:03, 40:27:01-40:27:02, 40:105, 40:267, 40:284, 40:314	C*02:06:01-02:06:02, C*02:23, C*02:36, C*15:42, C*15:111 *07:09, 07:11, 07:17, 07:115, 07:237, 07:246, 07:287, 08:28, 08:35, 08:37, 08:69, 14:05, 15:07:01:01-15:07:03, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:331, 15:360, 15:383, 15:405, 15:421, 18:14, 35:05:01:01-35:05:03, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 35:114, 35:232, 38:19, 39:03:01:01- 39:03:01:02, 39:24:01-39:24:02, 39:37, 39:76, 39:120, 41:18, 41:24, 41:51, 42:06, 42:09, 42:20, 46:12, 48:07, 48:14, 53:14, 58:18, C*02:60, C*07:294, C*07:526, C*07:530, C*08:08:01-08:08:02
7^{4,6}	110 bp	800 bp	*40:12, 40:46, 40:93, 40:265N	*07:27, 07:50, 08:04:01-08:04:02, 08:17, 08:54:01-08:54:02, 08:110, 13:97, 15:03:01:01-15:03:06, 15:47:01-15:47:02, 15:54, 15:61-15:62, 15:64:01-15:64:02, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242:01-15:242:02, 15:253, 15:259, 15:266, 15:274, 15:281-15:282, 15:369, 15:379, 15:389, 15:397, 18:37, 18:125, 27:18, 27:29, 37:28, 38:03, 39:02:01- 39:02:02:03, 39:08, 39:13:01-39:13:02, 39:23, 39:39:01-39:39:02, 39:49, 39:88, 39:101, 39:105, 39:110, 42:11, 44:40, 44:44, 44:130, 44:156, 44:210, 48:01:01-48:05, 48:07-48:30, 48:32-48:40, 52:16, 55:18, 56:44
8	235 bp	1070 bp	*40:05:01:01-40:05:01:02, 40:71, 40:174	*07:20, 07:24, 07:60, 07:100, 07:131, 07:220, 07:223, 08:21, 08:25, 08:175, 15:07:01:01- 15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 35:05:01:01- 35:05:03, 35:16-35:17:02, 35:22, 35:30, 35:51, 35:58, 35:72, 35:89, 35:97, 35:113- 35:114, 35:125, 35:164, 35:199, 35:232, 35:242, 35:318, 44:54, 44:106, 44:110, 44:135, 44:158, 44:184, 44:211, 44:213, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27, C*03:143, C*03:167, C*03:296, C*03:335, C*03:346
9	160 bp	1070 bp	*40:06:01:01-40:06:04, 40:06:06-40:06:16, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295,	*07:78, 07:84, 27:14, 27:81, 27:130, 51:01:09, 51:01:21, 51:01:25, 51:10, 51:24:02-51:24:04, 51:197, 51:217, 52:54, 54:11, 56:20:02, 73:01-73:02, C*05:152, C*07:463

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10	215 bp	1070 bp	*40:07-40:08, 40:13, 40:68, 40:106, 40:162, 40:220, 40:232	*08:62, 18:07:01-18:07:02, 18:29, 18:79, 18:136, 27:23, 35:50, 35:84, 35:162, 35:217, 35:231, 35:280, 35:323, 37:21, 37:67, 41:46, 51:103, 51:116, 51:151
11⁴	80 bp	1070 bp	*40:77, 40:87:01-40:87:02, 40:222, 40:237	*15:124, 15:412, 18:88, 38:43, 44:169, 44:247, 46:43, 48:14, 48:26, 48:29, 49:29, 51:181, 54:22, 57:59, 58:05, C*07:81, C*07:168, C*07:450
12⁴	95 bp	1070 bp	*40:08, 40:25, 40:68, 40:106, 40:166 ^w , 40:232, 40:313	*07:133 ^w , 08:155, 15:143, 18:48, 18:107, 35:19, 35:47, 35:154, 35:217, 35:274, 39:69, 44:12, 44:232, 44:263, 50:15, 51:112, 53:30, 53:39
13⁴	90 bp	1070 bp	*40:03, 40:09, 40:18, 40:24, 40:31-40:32, 40:98, 40:267, 40:284	*07:02:01:01-07:02:38, 07:02:40-07:04, 07:08:01-07:11, 07:13, 07:15-07:17, 07:19- 07:31, 07:33:01-07:33:03, 07:35-07:39, 07:41-07:52, 07:54-07:68:03, 07:70-07:76, 07:79, 07:81-07:83, 07:85-07:89, 07:91- 07:96:02, 07:98-07:104, 07:106-07:111N, 07:113-07:114, 07:116-07:122, 07:124- 07:136:02, 07:139, 07:141-07:161N, 07:164- 07:175, 07:177-07:181N, 07:183-07:192, 07:194-07:195, 07:199-07:200, 07:202- 07:205, 07:208, 07:211-07:212, 07:215- 07:221, 07:223-07:224, 07:226, 07:228:01- 07:234, 07:236-07:238, 07:240-07:247, 07:250-07:254, 07:256-07:257, 07:259, 07:261, 07:263, 07:265-07:268, 07:271- 07:277, 07:279-07:282, 07:285N-07:286, 07:288-07:292, 07:294, 08:07, 08:28, 08:37, 08:87, 08:111, 08:156, 15:07:01:01-15:07:03, 15:45, 15:55, 15:68, 15:197:02, 15:207, 15:331, 15:360, 15:383, 15:405, 15:421, 18:14, 18:22, 27:34, 27:138, 35:05:01:01- 35:05:03, 35:16-35:17:02, 35:30, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 35:113- 35:114, 35:125, 35:199, 35:232, 35:242, 35:318, 37:07, 37:09, 39:29, 41:04, 41:18, 41:51, 42:09, 42:16, 44:54, 44:106, 44:110, 44:135, 44:158, 44:211, 46:12, 48:08, 53:14, 58:18, C*02:60, C*03:05, C*03:25, C*03:27, C*03:143, C*03:167, C*03:296, C*03:335, C*03:346, C*07:294, C*07:526, C*07:530, C*15:140
14^{4,7}	90 bp	800 bp	*40:10:01:01-40:10:02, 40:248, 40:282, 40:325, 40:351	*15:46, 15:106, 35:47, 35:154, 41:12, 41:36, 44:34:02, 44:245, 44:269, 49:48, 53:30, 57:45
15	150 bp	800 bp	*40:13, 40:19, 40:47, 40:96, 40:109-40:110, 40:117, 40:157, 40:188, 40:201, 40:292, 40:340	*37:06:01-37:06:02, 41:46, 44:02:01:01- 44:02:12, 44:02:14-44:03:36, 44:03:38- 44:05:04, 44:07, 44:10-44:39, 44:41:01- 44:43:02, 44:45, 44:47-44:56N, 44:58N- 44:59:02, 44:61N-44:74, 44:76-44:82,

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16⁴	75 bp 160 bp	800 bp	*40:15 *40:01:46, 40:14:01, 40:72:01, 40:77, 40:121, 40:136, 40:237	*07:02:13, 07:02:35, 07:68:02, 07:151:02, 07:209, 07:262, 18:35, 18:110, 35:66, 42:05:01-42:05:02, 48:12, C*07:38:01-07:38:02
17⁴	120 bp	800 bp	*40:01:01-40:01:49, 40:07, 40:10:01:01-40:10:02, 40:12, 40:14:01-40:14:03, 40:21-40:22N, 40:25, 40:30-40:31, 40:33-40:34, 40:36, 40:38, 40:42-40:43, 40:45-40:49, 40:52, 40:54-40:55, 40:59-40:63, 40:65-40:66, 40:69, 40:72:01-40:74, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:100-40:102, 40:106, 40:108, 40:112-40:114:02, 40:116-40:118N, 40:121, 40:123-40:126, 40:128, 40:132, 40:134-40:141, 40:146-40:147, 40:149-40:152, 40:154-40:156, 40:160:01-40:160:02, 40:166, 40:168, 40:170-40:172, 40:175, 40:179, 40:182, 40:185-40:188, 40:191-40:197, 40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:233-40:238, 40:240-40:242, 40:245, 40:247, 40:249-40:253, 40:257-40:261, 40:263N-40:265N, 40:272-40:273, 40:277-40:282, 40:285-40:286N, 40:288, 40:298-40:301, 40:308, 40:310, 40:312, 40:315-40:316, 40:319, 40:321, 40:323-40:329, 40:332-40:333, 40:338N-40:339, 40:344, 40:346, 40:352-40:353	*07:25, 07:48, 07:202, 07:209, 07:223, 07:261, 18:35, 18:110, 27:36, 27:125, 35:66, 38:63, 41:08, 42:05:01-42:05:02, 44:31, 46:06, 48:01:01-48:01:06, 48:03:01-48:03:02, 48:06-48:07, 48:09-48:12, 48:14, 48:16-48:23, 48:26-48:41, 81:01-81:08
18⁴	105 bp	800 bp	*40:01:06, 40:26	*07:02:11, 07:05:03, 15:01:02, 15:09:01-15:09:02, 15:243, 15:252, 15:277-15:278, 15:361, 35:251, 51:06:01, 51:06:03, 51:59,

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32	255 bp	1070 bp	*40:01:01-40:09, 40:11:01-40:11:02, 40:14:01-40:16, 40:18, 40:20, 40:22N-40:39, 40:42-40:46, 40:48, 40:50-40:57, 40:59-40:75, 40:77-40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:128, 40:130:01-40:136, 40:138-40:156, 40:158-40:163, 40:165-40:187, 40:189-40:190, 40:192-40:200, 40:202-40:209, 40:211-40:218, 40:220-40:228, 40:230-40:291N, 40:293-40:317, 40:319-40:324, 40:326-40:327, 40:329-40:339, 40:341, 40:343-40:355	18:35, 18:110, 35:66, 46:06, 48:14, 48:23, C*07:38:01-07:38:02
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33	245 bp	1070 bp	*40:04, 40:30, 40:34, 40:59, 40:64, 40:68, 40:120, 40:129, 40:137, 40:160:01-40:160:02	*07:12, 07:14, 07:18:01-07:18:02, 07:137, 07:162-07:163, 07:199, 07:225, 07:227, 07:248, 13:01:01-13:01:12, 13:07N, 13:13:01-13:13:02, 13:17, 13:20-13:23, 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, 13:87, 13:90, 13:92, 13:95, 27:19, 27:30, 27:150, 35:15:01-35:15:02, 35:33, 35:88, 35:230, 35:341, 44:16, 44:21, 44:64:01-44:64:02, 44:124, 44:150, 48:17, 57:13, 57:25, 58:37, C*02:62, C*03:34, C*03:142, C*03:261, C*03:272, C*15:42, C*15:111, C*17:01:07
34 ⁵	190 bp 235 bp	1070 bp	*40:118N *40:42, 40:60, 40:124:01-40:124:02, 40:172, 40:280	*07:14, 07:17, 07:28, 07:96:01-07:96:02, 07:115, 07:197, 07:225, 07:260, 07:284, 15:230, 15:297, 27:36, 44:150, 48:17, 48:26, C*03:260, C*04:77, C*07:38:01-07:38:02
35 ⁷	140 bp	800 bp	*40:35:01-40:35:02, 40:71	*07:68:01-07:68:03, 07:100, 07:237, 07:262, 08:71, 14:05, 14:13, 14:53, 15:07:01:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 18:14, 27:32, 27:138, 35:05:01:01-35:05:03, 35:22, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 35:199, 35:232, 38:19, 39:03:01:01-39:03:01:02, 39:14, 39:24:01-39:24:02, 39:29, 39:37, 39:76, 39:120, 41:24, 42:10, 42:17, 44:54, 44:106, 44:135, 44:158, 44:184, 44:213, 46:12, 48:12, 48:14, 48:29, 51:64, 53:14, 58:18
36 ⁴	90 bp 135 bp	1070 bp	*40:273 *40:10:01:01-40:10:02, 40:40, 40:49, 40:58, 40:110, 40:129, 40:164, 40:210, 40:219,	*15:46, 15:53, 15:106, 18:107, 35:47, 35:154, 41:33, 41:47, 44:02:01:01-44:02:31, 44:02:33-44:03:15, 44:03:17-44:03:29,

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37⁴	125 bp 270 bp	1070 bp	*40:51, 40:113, 40:163 *40:28	*14:10, 18:22, 18:69 ^w , 18:105, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 35:233, 35:287, 37:04:01 ^w -37:04:02 ^w , 44:190, 44:203, 51:04, 51:46, 51:56:01-51:56:03, 51:139, 53:02, 53:06, 53:28, 57:14:01-57:14:02, 58:09, 58:76, C*15:39, C*15:130
38^{4,5}	120 bp	1070 bp	*40:28	*35:01:10, 35:04:02, 44:03:40, 44:62, 51:04, 51:46, 51:56:01-51:56:03, 51:139, 53:28
39⁵	330 bp	800 bp	*40:12	*15:03:01:01-15:03:06, 15:09:01-15:10:04, 15:18:01:01-15:18:06, 15:23, 15:29, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64:01-15:64:02, 15:69, 15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197:01-15:198, 15:200, 15:210, 15:212, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242:01-15:243, 15:252-15:253, 15:255, 15:259, 15:263, 15:266, 15:274-15:275:02, 15:281-15:282, 15:290, 15:292-15:294N, 15:306-15:307, 15:311-15:314, 15:323, 15:329, 15:335, 15:337-15:338, 15:351, 15:354, 15:369, 15:379-15:380N, 15:382, 15:388-15:389, 15:397, 15:414, 15:426-15:427, C*03:342, C*07:46, C*07:356, C*07:546, C*12:184, C*15:99, C*16:85
40⁴	120 bp 150 bp	1070 bp	*40:38, 40:52, 40:59-40:60, 40:222, 40:352 *40:216N	*15:116, 15:124, 15:352, 15:412, 35:331, 46:06, 46:43, 48:23, 57:59
41⁵	205 bp	1070 bp	*40:08, 40:25, 40:68, 40:106, 40:166 ^w , 40:232, 40:313	*07:143 ^w , 08:62, 15:426, 18:01:01:01-18:01:12, 18:01:14-18:03, 18:05-18:11, 18:13-18:15, 18:17N-18:24, 18:26-18:42, 18:44:01-18:106, 18:108-18:124, 18:126-18:136, 27:23, 27:92, 27:157, 35:50, 35:84, 35:162, 35:217, 35:231, 35:280, 35:323, 37:08, 37:67, 39:31, 39:128, 42:02:01:01 ^w -42:02:01:02 ^w , 42:09 ^w , 42:17 ^w -42:18 ^w , 49:26,

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42⁴	95 bp	1070 bp	*40:01:11, 40:58, 40:273	
43	185 bp	1070 bp	*40:30, 40:34, 40:59, 40:137, 40:160:01-40:160:02	*35:230, 35:331, 44:169, 44:182, 48:17, 57:59, C*03:129, C*03:234, C*17:01:07
44⁴	110 bp 210 bp	800 bp	*40:54, 40:242, 40:263N	* 51:174:02
45^{5,7}	175 bp 235 bp 260 bp	1070 bp	*40:56 *40:55 *40:301	
46⁸	545 bp	1070 bp	*40:11:01, 40:20, 40:26, 40:74, 40:149, 40:184, 40:351	*15:71, 15:175, 18:01:01:01-18:01:05, 18:01:07-18:01:12, 18:01:14-18:01:25, 18:03, 18:05-18:07:02, 18:09-18:13, 18:15, 18:17N, 18:19-18:21, 18:23N-18:24, 18:26, 18:28- 18:42, 18:44:01, 18:45-18:51, 18:53-18:67, 18:69, 18:71-18:104, 18:106, 18:108-18:124, 18:126-18:136, 27:19, 27:21, 27:30, 27:70, 27:125, 27:127, 37:12, 37:19:01, 37:44, 37:56, 39:31, 39:101, 39:128, 44:103, 44:131, 44:212
47	145 bp	800 bp	*40:57, 40:318	
48⁸	215 bp 245 bp	1070 bp	*40:61 *40:73	*18:06, 46:14
49⁴	120 bp	1070 bp	*40:36, 40:48	*38:63, 48:07, 54:22
50	255 bp	1070 bp	*40:37, 40:76, 40:175	*18:49, 18:79, 18:84, 18:108, 18:132, 27:42, 27:89, 27:156, 37:05, C*06:77
51	200 bp	1070 bp	*40:62, 40:345N	*58:72N
52⁴	90 bp	1070 bp	*40:63, 40:92, 40:324	*15:116, 44:247, 46:43, 49:29, 51:181, 57:59, C*03:162, C*03:220, C*05:151, C*07:186, C*07:212, C*07:265, C*17:07
53	165 bp 245 bp	1070 bp	*40:65 *40:171	*15:193, 39:53, C*04:155, C*07:107, C*07:224
54^{4,5}	125 bp	800 bp	*40:66, 40:103, 40:166	*07:133, 44:90, 45:06
55^{4,7}	125 bp	800 bp	*40:67, 40:241	
56^{4,7}	100 bp 165 bp 270 bp	1070 bp	*40:69 *40:97 *40:221	
57	220 bp	1070 bp	*40:79, 40:190, 40:289	*41:14
58	190 bp	1070 bp	*40:31, 40:80, 40:287	*07:147, 07:151:01-07:151:02, 07:202, 07:279, 08:120, 41:38, 48:01:01-48:01:06, 48:04:01-48:04:02, 48:06-48:07, 48:09, 48:11, 48:14-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:39, 48:41, 81:01-81:08, C*07:294, C*07:526, C*07:530
59⁴	85 bp 115 bp 150 bp 190 bp	1070 bp	*40:127 *40:265N *40:331, 40:346 *40:81	*44:143, 44:261 *15:175
60	135 bp 240 bp	800 bp	*40:82 *40:88, 40:225	*07:196, 27:80

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61⁴	80 bp	1070 bp	*40:02:04, 40:10:02, 40:83, 40:248	*07:133, 15:46, 15:106, 15:143, 35:19, 35:47, 35:154, 35:274, 37:06:01-37:06:02, 44:84:01, 44:194, 44:205:01-44:205:02, 44:225, 44:269, 48:41, 51:112, 53:39, 57:45
	135 bp		*40:234	
62	150 bp	800 bp	*40:182, 40:205	
	195 bp		*40:84	
	245 bp		*40:119	
63	155 bp	1070 bp	*40:255	
	180 bp		*40:85	
	240 bp		*40:133Q	
64⁴	105 bp	1070 bp	*40:86, 40:330	*13:46, 15:137, 35:235, 35:276, 39:06:01-39:06:05, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 39:109, 39:127, 41:50, 45:02, 50:09, 51:13:01-51:13:02, 51:92:01-51:92:02, 51:172, 52:14, 55:13, 55:58, 56:22, 59:03, 73:01-73:02, C*05:152
65⁷	130 bp	1070 bp	*40:02:01:01-40:02:17, 40:02:19-40:02:25, 40:04-40:06:16, 40:08, 40:11:01-40:11:02, 40:13-40:16, 40:19, 40:26-40:29, 40:35:01-40:35:02, 40:37, 40:39-40:40, 40:50, 40:53, 40:56-40:58, 40:64, 40:68, 40:70:01-40:71, 40:75, 40:78, 40:82-40:83, 40:86, 40:90, 40:93-40:97, 40:99, 40:103-40:105, 40:107, 40:109-40:111, 40:115, 40:119, 40:121-40:122, 40:127, 40:129, 40:133Q, 40:136, 40:142N-40:145, 40:148, 40:157-40:158, 40:161-40:162, 40:164-40:165, 40:167, 40:169, 40:173-40:174, 40:176-40:177, 40:181, 40:184, 40:189-40:190, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224-40:226, 40:229-40:230, 40:232, 40:237, 40:243-40:244, 40:246, 40:248, 40:254-40:256N, 40:266, 40:268-40:271, 40:274-40:276, 40:283, 40:287, 40:289, 40:290 ^w , 40:291N-40:297, 40:302-40:304, 40:305 ^w , 40:306, 40:309, 40:311, 40:313-40:314, 40:317-40:318, 40:320, 40:322, 40:331, 40:334-40:335, 40:337N, 40:340,	*07:05:01:01-07:06:02, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 07:182N, 07:206-07:207, 07:209-07:210, 07:213-07:214, 07:249, 07:258, 07:262, 07:264, 07:269-07:270, 07:278, 07:283, 07:287, 07:293, 08:01:01:01-08:01:11, 08:01:13-08:05, 08:08N-08:12:01, 08:12:03-08:13, 08:15-08:27, 08:29-08:36, 08:38-08:48, 08:50-08:63, 08:65-08:73, 08:75-08:82N, 08:84 ^w , 08:85-08:86N, 08:88, 08:90-08:106, 08:108 ^w , 08:109-08:110, 08:112-08:155, 08:157-08:180, 13:03, 13:22:01-13:22:02, 13:40 ^w , 13:45, 13:48, 13:62, 13:86 ^w , 14:13, 14:53, 15:09:01-15:09:02, 15:30, 15:42, 15:48, 15:58, 15:73, 15:83, 15:86, 15:150, 15:188, 15:224, 15:229, 15:243, 15:252, 15:303, 15:324, 15:329, 15:361, 18:26, 18:61, 18:97, 27:07:01-27:07:05, 27:11, 27:20, 27:27, 27:33, 27:43, 27:130, 27:153, 35:02:01:01 ^w , 35:02:01:02, 35:02:02 ^w -35:02:08 ^w , 35:04:01-35:04:03, 35:06, 35:09:01-35:09:03, 35:12:01-35:12:04, 35:18, 35:22, 35:31, 35:44, 35:59:01-35:60, 35:81 ^w , 35:83 ^w , 35:87-35:88, 35:95 ^w , 35:129N ^w , 35:149, 35:154 ^w , 35:157 ^w , 35:162 ^w , 35:172 ^w , 35:182 ^w -35:184 ^w , 35:201, 35:211 ^w , 35:220 ^w , 35:233, 35:251, 35:258 ^w , 35:266, 35:270 ^w , 35:273 ^w , 35:276, 35:285 ^w , 35:292, 35:309 ^w , 35:311 ^w , 35:316, 35:321, 35:323 ^w , 35:335, 35:339, 37:12, 38:01:01, 38:01:03-38:02:05, 38:02:07-38:21, 38:23-38:28, 38:30-38:37, 38:39-38:48, 38:49 ^w , 38:50-38:51, 38:53-38:62, 38:64-38:67, 39:01:01:01-39:01:01:07, 39:01:03-39:01:11, 39:01:12 ^w , 39:01:13-39:01:18, 39:01:20-39:06:05, 39:08-39:14, 39:16, 39:18-39:20, 39:22, 39:24:01-

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54:12-54:13, 54:17-54:21, 54:23-54:26,
54:28-54:38, 55:01:01-55:05, 55:07-55:13,
55:15-55:22, 55:24-55:26, 55:28-55:40,
55:42-55:45, 55:47-55:49, 55:51-55:57,
55:59-55:67, 55:69-55:85, 56:01:01:01-
56:02:01, 56:02:02^w, 56:04-56:08, 56:10,
56:12-56:17, 56:19N-56:30, 56:33-56:49,
56:51-56:53, 57:02:01-57:03:03, 57:07,
57:09, 57:12, 57:17, 57:28N, 57:39, 57:42^w,
57:46, 57:57, 57:63, 57:66, 57:70, 57:80,
57:82, 57:84, 58:08:01-58:08:02, 58:20,
58:27-58:28:02, 58:65^w, 58:73, 59:01:01:01-
59:09, 67:01:01-67:07, 78:01:01:01-78:09,
82:01-82:03, **C*01:90, C*01:116, C*02:68,**
C*03:317, C*15:24, C*15:128

170 bp

*40:15-40:16, 40:23, 40:128,
40:161, 40:198, 40:324

*07:05:01:01-07:06:02, 07:32, 07:40, 07:53,
07:69, 07:78, 07:90, 07:97, 07:105, 07:112,
07:123, 07:137-07:138, 07:140, 07:176,
07:182N, 07:201N, 07:206-07:207, 07:210,
07:213-07:214, 07:222, 07:249, 07:258,
07:262, 07:264, 07:269-07:270, 07:278,
07:283, 07:287, 07:293, 08:20, 08:40, 08:70,
08:79, 13:18, 13:31, 13:41, 13:73, 15:30,
15:58, 15:73, 15:150, 15:303, 15:324, 35:18,
35:44, 35:172^w, 39:33, 39:36, 46:61, 48:05,
48:19, 51:05, 51:29, 51:54, 51:61:01-
51:61:02, 51:82, 51:217, 52:21, 52:24, 54:10,
54:20, 54:33, 55:09, 55:21, 55:37, 55:52,
56:43, 56:51, 57:02:01-57:02:02, 57:12,

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66	145 bp	1070 bp	*40:14:01-40:16, 40:32, 40:72:01-40:72:02, 40:77, 40:98, 40:121, 40:136, 40:158, 40:237	57:28N, 57:42, 57:63, A*68:02:11, C*01:90, C*01:116, C*02:68
				*07:02:01:01-07:18:02, 07:20-07:22:01, 07:23-07:32, 07:34-07:39, 07:41-07:52, 07:54-07:59, 07:61-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:158, 07:160- 07:164, 07:166-07:172, 07:175-07:201N, 07:203-07:221, 07:223-07:234, 07:236- 07:278, 07:280-07:284, 07:286-07:294, 08:79, 08:156, 15:138, 15:230, 15:241, 15:297, 18:35, 18:110, 35:66, 37:07, 41:08, 42:05:01-42:05:02, 44:150, 48:05, 48:08, 48:10, 48:12, 48:14, C*02:23, C*03:260, C*04:77, C*07:38:01-07:38:02
				*07:284, 08:74, 41:52
				*07:136:01
67 ⁴	85 bp 130 bp 255 bp	1070 bp	*40:89 *40:320 *40:107	
68 ⁴	90 bp 130 bp 225 bp	1070 bp	*40:180 *40:320 *40:90	*08:14, 27:32
				*07:136:01
69 ^{4,7}	75 bp	800 bp	*40:91, 40:94	*13:01:11, 13:21, 13:71, 27:98, A*02:570, A*24:140, A*26:96, A*68:102, C*05:110
70 ^{7,8}	505 bp	1070 bp	*40:03, 40:09, 40:18, 40:20, 40:24, 40:31-40:33, 40:42, 40:44, 40:52, 40:59-40:60, 40:98, 40:120, 40:159, 40:267, 40:284, 40:352	*13:04, 13:10, 13:26:01-13:26:02, 13:35, 13:72, 15:46, 15:53, 15:106, 15:212, 15:336, 15:399, 18:48, 18:107, 18:129, 35:46-35:47, 35:63, 35:207, 35:217, 35:257, 35:278, 35:317, 41:04, 41:18, 41:21, 41:51, 44:02:01:01-44:02:40, 44:02:42-44:03:05, 44:03:07-44:05:04, 44:09, 44:11-44:13, 44:16-44:17, 44:19N-44:30, 44:32-44:37:02, 44:39-44:56N, 44:58N-44:61N, 44:63-44:76, 44:78-44:81, 44:84:01-44:132, 44:134- 44:139, 44:141-44:155, 44:157-44:161, 44:163-44:165, 44:167-44:183, 44:185- 44:193, 44:195N-44:197, 44:199-44:209, 44:211-44:212, 44:214-44:215, 44:218- 44:224, 44:227-44:240, 44:242-44:245, 44:247-44:264, 44:266-44:269, 45:09, 49:04:01-49:05, 50:33, 53:30, 57:45, 57:51, 57:69, 57:71, 57:88, C*07:69, C*16:85
				*38:12, 44:263
71 ⁴	120 bp	800 bp	*40:75, 40:322	
72 ⁵	245 bp	1070 bp	*40:06:01:01-40:06:16, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:95-40:96, 40:103, 40:109- 40:110, 40:127, 40:131, 40:148, 40:159, 40:161- 40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268- 40:270, 40:275, 40:294- 40:295, 40:298, 40:306- 40:307, 40:311, 40:313, 40:317-40:318, 40:330, 40:340-40:342, 40:348- 40:350, 40:354	*07:78, 07:84, 13:02:01:01-13:02:19, 13:08- 13:09, 13:14-13:16, 13:18-13:19, 13:27, 13:30-13:35, 13:37-13:38, 13:40-13:42, 13:44-13:45, 13:47, 13:49N, 13:54- 13:56:02N, 13:58-13:59, 13:65-13:70, 13:72, 13:74-13:75, 13:81-13:82, 13:84-13:85, 13:88-13:89, 13:91, 13:93-13:94, 13:96- 13:102, 27:14, 27:81, 27:130, 39:50, 45:10, 49:07, 50:31, 51:10, 51:16, 51:31, 51:34, 51:82, 51:93, 52:08, 52:67, 54:26, 55:09, 55:22, 55:24, 59:09, 73:01-73:02, 78:08

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73	220 bp 250 bp	1070 bp	*40:329 *40:176, 40:301	
74⁵	210 bp	1070 bp	*40:95, 40:148, 40:161 ^w	*07:78 ^w , 07:84 ^w , 13:16, 13:48, 13:62, 14:37, 15:16:01:01-15:16:03, 15:42, 15:67, 15:95, 15:254, 15:293, 15:310, 15:362, 15:408, 27:153, 49:01:01, 49:01:03-49:10, 49:12-49:14, 49:16-49:40, 49:41 ^w , 49:42-49:44, 49:46, 49:48, 50:01:01:01-50:01:02, 50:01:03 ^w , 50:01:04-50:02, 50:04-50:11, 50:13-50:16, 50:18-50:20, 50:31, 50:32 ^w , 50:33-50:46, 50:48, 50:50, 50:52, 51:01:01:01-51:01:46, 51:01:47 ^w , 51:01:48-51:03, 51:07:01-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:24:05, 51:26-51:28, 51:29 ^w , 51:30, 51:32-51:35, 51:37-51:39, 51:41N, 51:43, 51:48-51:53, 51:55 ^w , 51:57-51:58, 51:60, 51:63:01-51:63:02, 51:65-51:71, 51:74-51:80, 51:82 ^w , 51:83-51:86, 51:88-51:90, 51:92:01-51:92:02, 51:94-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:121, 51:123-51:134, 51:136-51:138, 51:140, 51:142-51:147, 51:149N-51:152, 51:154-51:156, 51:158:01-51:180, 51:182-51:193, 51:195-51:196, 51:197 ^w , 51:198-51:210, 51:212, 51:214-51:216, 51:218-51:219, 51:221-51:223, 52:01:01:01-52:01:25, 52:01:26 ^w , 52:01:27-52:02:02, 52:04-52:09, 52:11-52:18, 52:20, 52:22-52:23, 52:24 ^w , 52:25:01-52:43, 52:44 ^w , 52:45-52:60, 52:61 ^w , 52:62-52:69, 54:20 ^w , 55:01:01-55:01:06, 55:01:08-55:01:16, 55:03, 55:05, 55:09 ^w , 55:11, 55:15, 55:17, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52 ^w , 55:53-55:55N, 55:58-55:60, 55:64, 55:66, 55:68, 55:73-55:76, 55:78-55:79, 55:84-55:85, 56:05:01-56:06, 56:21, 56:25, 56:37, 58:08:01-58:08:02, 78:01:01:01-78:03, 78:05-78:07, 78:09, C*05:152
75	245 bp	1070 bp	*40:171	*15:193, 39:53, C*04:155 , C*07:107 , C*07:224
76	270 bp 260 bp	1070 bp	*40:155:01N-40:155:02N *40:47, 40:96, 40:157, 40:168, 40:201	*13:23, 13:55, 18:09, 27:01, 27:142, 37:10, 44:15, 44:55, 44:103, 44:188, 44:212, 49:02
77	130 bp 170 bp 195 bp	1070 bp	*40:295 *40:102 *40:142N	
78⁴	115 bp 150 bp 250 bp	1070 bp	*40:111 *40:182, 40:205 *40:135	
79	180 bp 230 bp	1070 bp	*40:145, 40:268, 40:339 *40:109, 40:116, 40:292	*18:67
80⁴	115 bp 140 bp	1070 bp	*40:122, 40:151 *40:334	C*02:98

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81	225 bp 325 bp	1070 bp	*40:144N *40:141, 40:299	*08:163 [?]
82⁴	75 bp 120 bp 150 bp 180 bp	800 bp	*40:115 *40:311 *40:267, 40:346 *40:150, 40:331	*07:120, 15:175, 15:214, 18:81, 35:250, 51:165, 57:29
83	155 bp 210 bp 240 bp	1070 bp	*40:179, 40:249 *40:104, 40:253, 40:348 *40:247	*51:72
84	160 bp 205 bp	1070 bp	*40:249 *40:132, 40:178, 40:263N	*51:72 *07:140, 35:309 ^w , 44:10, 44:14, 44:31, 44:62, 44:77, 44:82, 44:184, 44:213, 45:14, 51:23, 51:108, 52:15, 57:07, 82:01-82:03
85	250 bp 355 bp	1070 bp	*40:213, 40:247 *40:337N	*15:227, 27:69, 37:23 *15:26N
86	245 bp	800 bp	*40:06:01:01-40:06:16, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:86, 40:93, 40:95-40:96, 40:103, 40:109- 40:110, 40:127, 40:131, 40:148, 40:159, 40:161- 40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268- 40:270, 40:275, 40:294- 40:295, 40:298, 40:306- 40:307, 40:311, 40:313, 40:317-40:318, 40:330, 40:340-40:342, 40:348- 40:350, 40:354	*07:78, 07:84, 13:02:01:01-13:02:19, 13:08- 13:09, 13:14-13:16, 13:18-13:19, 13:27, 13:30-13:35, 13:37-13:38, 13:40-13:42, 13:44-13:45, 13:47, 13:49N, 13:54- 13:56:02N, 13:58-13:59, 13:65-13:70, 13:72, 13:74-13:75, 13:81-13:82, 13:84-13:85, 13:88-13:89, 13:91, 13:93-13:94, 13:96- 13:102, 27:14, 27:81, 27:130, 39:50, 45:10, 49:07, 50:31, 51:10, 51:16, 51:31, 51:34, 51:82, 51:93, 52:08, 52:67, 54:26, 55:09, 55:22, 55:24, 59:09, 73:01-73:02, 78:08
87⁴	100 bp 195 bp	1070 bp	*40:286N *40:210 [?] , 40:229	*15:272N *18:43, 27:37
88⁴	105 bp 200 bp	1070 bp	*40:185, 40:209, 40:308, 40:350 *40:201	*13:58, 18:80, 18:102, 27:52, 35:84, 35:90, 35:150:01-35:150:02, 35:184, 35:201, 44:134, 51:103, 51:119 *13:25, 44:15, 44:109, 44:176
89	175 bp	1070 bp	*40:236	*35:220
90	220 bp 315 bp 415 bp	1070 bp	*40:329 *40:299 *40:278	*08:163 *07:282
91⁵	130 bp 335 bp 395 bp	1070 bp	*40:338N *40:303 *40:256N	
92	155 bp	1070 bp	*40:05:01:01-40:05:01:02, 40:15 ^w -40:16 ^w , 40:23 ^w , 40:26, 40:28, 40:51, 40:95, 40:148, 40:158, 40:161 ^w , 40:174, 40:183, 40:198 ^w , 40:309, 40:355	*07:05:01:01 ^w -07:05:01:02 ^w , 07:05:01:03- 07:05:01:04, 07:05:02 ^w -07:06:02 ^w , 07:32 ^w , 07:34, 07:40 ^w , 07:53 ^w , 07:69 ^w , 07:78 ^w , 07:80, 07:90 ^w , 07:97 ^w , 07:105 ^w , 07:112 ^w , 07:123 ^w , 07:137 ^w -07:138 ^w , 07:140 ^w , 07:176 ^w , 07:182N ^w , 07:201N ^w , 07:206 ^w -07:207 ^w , 07:210 ^w , 07:213 ^w -07:214 ^w , 07:222 ^w , 07:258 ^w , 07:262 ^w , 07:264 ^w , 07:269 ^w -07:270 ^w , 07:278 ^w , 07:283 ^w , 07:287, 07:293, 08:20 ^w , 08:79 ^w , 13:16, 13:20, 13:48, 13:62, 14:13, 14:53, 15:09:01-15:09:02, 15:42, 15:229, 15:243,

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93⁴	110 bp 255 bp	1070 bp	*40:310 *40:335
94⁴	75 bp	1070 bp	*40:06:02 [?] , 40:06:04, 40:06:05 [?] , 40:06:09 [?] - 40:06:16 [?] , 40:09 [?] , 40:10:02 [?] , 40:14:01 [?] -40:14:02 [?] , 40:15 [?] , 40:18 [?] -40:19 [?] , 40:21 [?] - 40:22N [?] , 40:24 [?] -40:25 [?] , 40:27:02 [?] -40:29 [?] , 40:31 [?] , 40:33 [?] -40:39 [?] , 40:44 [?] -40:49 [?] , 40:53 [?] -40:58 [?] , 40:61 [?] -40:63 [?] , 40:65 [?] , 40:67 [?] -40:69 [?] , 40:71 [?] , 40:72:02 [?] , 40:74 [?] -40:76 [?] , 40:78 [?] , 40:80 [?] -40:88 [?] , 40:90 [?] - 40:93 [?] , 40:95 [?] -40:96 [?] , 40:98 [?] , 40:100 [?] -40:112 [?] , 40:114:02 [?] - 40:116 [?] , 40:118N [?] -40:121 [?] , 40:123 [?] , 40:124:02 [?] - 40:130:01 [?] , 40:131 [?] -40:137 [?] , 40:141 [?] , 40:145 [?] , 40:148 [?] - 40:149 [?] , 40:151 [?] , 40:154 [?] , *44:15, 57:01:01-57:90

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95⁹	-	Negative Control

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-B*40 SSP typings.

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

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 1070 or 800 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the shorter, 800 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

³For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

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

⁵Primer mixes 20, 21, 23, 34, 38, 39, 41, 45, 54, 72, 74 and 91 may have tendencies of unspecific amplifications.

⁶Primer mix 7 may faintly amplify the C*17 alleles.

⁷Primer mixes 14, 27, 35, 45, 55, 56, 65, 69 and 70 have a tendency to giving rise to primer oligomer formation.

⁸Primer mixes 46, 48 and 70 may give rise to a lower yield of HLA-specific PCR product than the other B*40 primer mixes, most pronounced in primer mix 46.

⁹Primer mix 95 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 information not available for the primer matching sequence.

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Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	175	215	130	95	190	95	110	235	160	215	80	95
PCR product												
Length of int.	800	800	1070	800	800	1070	800	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer(s) ²	363 5'-Agg 3'	93 5'-TAC 3'	106 5'-CCg 3'	363 5'-AgC 3'	412 5'-ATg 3'	363 5'-AgC 3'	198 5'-gT 3'	363 5'-AgC 3'	357 5'-Tgg 3'	97 5'-TCC 3'	463 5'-TgA 3'	206 5'-gAA 3'
	363 5'-AgA 3'	97 5'-TCC 3'					206 5'-AgA 3'	363 5'-AgC 3'				
3'-primer(s) ³	499 5'-ggA 3'	272 5'-Tgg 3'	193 5'-CgT 3'	419 5'-CgT 3'	559 5'-CTC 3'	418 5'-gTT 3'	272 5'-Tgg 3'	559 5'-CAg 3'	477 5'-gCg 3'	272 5'-TgA 3'	499 5'-ggA 3'	259 5'-gTT 3'
		272 5'-Tgg 3'	193 5'-TgT 3'			419 5'-Cgg 3'					512 5'-CCA 3'	
						419 5'-CgA 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.	90	90	150	75	120	105	320	135	145	235	95	155
PCR product				160		175		285			160	
											205	
Length of int.	1070	800	800	800	800	800	1070	1070	800	800	800	1070
pos. control ¹												
5'-primer(s) ²	363 5'-AgC 3'	144 5'-gCA 3'	206 5'-gAA 3'	486 5'-ACC 3'	527 5'-TgT 3'	369 5'-TAC 3'	379 5'-ACC 3'	363 5'-AgC 3'	209 5'-ggC 3'	363 5'-AgC 3'	194 5'-CAA 3'	436 5'-AgA 3'
	363 5'-AgC 3'			570 5'-gAT 3'				512 5'-gTg 3'			257 5'-CCC 3'	454 5'-ACT 3'
											652 5'-CCA 3'	459 5'-gAg 3'
											649 5'-ACg 3'	
3'-primer(s) ³	412 5'-gTC 3'	193 5'-CgT 3'	317 5'-ggA 3'	605 5'-gCT 3'	605 5'-gCT 3'	435 5'-TCT 3'	3 rd I 5'-TAT 3'	605 5'-gCT 3'	311 5'-ggT 3'	559 5'-CTC 3'	311 5'-ggT 3'	559 5'-CTC 3'
						502 5'-CTT 3'					814 5'-CAA 3'	774 5'-ggT 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **5F8**

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	125	120	180	335	235	190	225	255	245	190	140	90
PCR product										235		135
Length of int. pos. control ¹	1070	1070	800	1070	800	1070	1070	1070	1070	1070	800	1070
5'-primer(s) ²	206	527	106	361	363	408	419	93	355	409	363	97
	5'-gAA 3'	5'-TgA 3'	5'-CCA 3'	5'-AgT 3'	5'-AgC 3'	5'-ggT 3'	5'-gTC 3'	5'-TAC 3'	5'-TCA 3'	5'-ggT 3'	5'-AgC 3'	5'-TCT 3'
				363		412	420	97		454		143
				5'-Agg 3'		5'-ATA 3'	5'-TTA 3'	5'-TCC 3'		5'-ACT 3'		5'-CAT 3'
				363		412						
				5'-Agg 3'		5'-ATA 3'						
				363		412						
				5'-AgA 3'		5'-ATA 3'						
3'-primer(s) ³	292	605	243	3 rd I	559	559	605	311	559	605	463	193
	5'-gTC 3'	5'-gCT 3'	5'-TAA 3'	5'-TAT 3'	5'-CgT 3'	5'-CTC 3'	5'-gCT 3'	5'-ggT 3'	5'-CTC 3'	5'-gCT 3'	5'-gCT 3'	5'-CgT 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.	125	120	330	120	205	95	185	110	175	545	145	215
PCR product	270			150				210	235			245
									260			
Length of int. pos. control ¹	1070	1070	800	1070	1070	1070	1070	800	1070	1070	800	1070
5'-primer(s) ²	355	355	45	388	97	141	355	412	788	103	89	97
	5'-TCA 3'	5'-TCA 3'	5'-ggA 3'	5'-gg 3'	5'-TCC 3'	5'-ATT 3'	5'-TCA 3'	5'-ATA 3'	5'-TAA 3'	5'-CCT 3'	5'-gAC 3'	5'-TCC 3'
	499			419		143			814		96	
	5'-TCT 3'			5'-gTC 3'		5'-CAT 3'			5'-TgA 3'		5'-TTg 3'	
									874			
									5'-Cgg 3'			
3'-primer(s) ³	583	435	206	499	259	193	499	479	916	362	193	272
	5'-gTg 3'	5'-TCT 3'	5'-CCT 3'	5'-ggA 3'	5'-gTT 3'	5'-CgT 3'	5'-ggA 3'	5'-CCA 3'	5'-gAC 3'	5'-TCC 3'	5'-CgT 3'	5'-TgT 3'
								577				299
								5'-gCT 3'				5'-TCA 3'
								580				
								5'-TCA 3'				
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **5F8**

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	120	255	200	90	165	125	125	100	220	190	85	135
PCR product					245			165			115	240
								270			150	
											190	
Length of int. pos. control ¹	1070	1070	1070	1070	1070	800	800	1070	1070	1070	1070	800
5'-primer(s) ²	419 5'-gTT 3'	97 5'-TCC 3'	490 5'-CgA 3'	512 5'-gTT 3'	363 5'-Agg 3'	206 5'-gAA 3'	523 5'-CCg 3'	206 5'-gAA 3'	142 5'-TCA 3'	363 5'-AgC 3'	124 5'-gCC 3'	350 5'-TCg 3'
			507 5'-CgC 3'	512 5'-gTT 3'			691 5'-TgA 3'	636 5'-CAC 3'			151 5'-gCC 3'	363 5'-AAC 3'
											173 5'-CgC 3'	466 5'-gTC 3'
											198 5'-gT 3'	
											228 5'-ATg 3'	
3'-primer(s) ³	499 5'-ggA 3'	302 5'-ggT 3'	3 rd I 5'-TAT 3'	559 5'-CAG 3'	488 5'-CCA 3'	283 5'-TgC 3'	605 5'-gCT 3'	263 5'-gTA 3'	322 5'-gTg 3'	512 5'-CCA 3'	272 5'-Tgg 3'	559 5'-CTC 3'
		312 5'-AgT 3'			565 5'-CAT 3'	296 5'-CTT 3'	774 5'-ggT 3'	760 5'-AAA 3'				
		323 5'-AgC 3'						865 5'-CCT 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.	80	150	155	105	130	145	85	90	75	505	120	245
PCR product	135	195	180		170		130	130				
		245	240				255	225				
Length of int. pos. control ¹	1070	800	1070	1070	1070	1070	1070	1070	800	1070	800	1070
5'-primer(s) ²	109 5'-TgA 3'	97 5'-TCC 3'	363 5'-AgC 3'	357 5'-Tgg 3'	408 5'-ggT 3'	499 5'-TCA 3'	363 5'-AgC 3'	363 5'-AgC 3'	142 5'-TCA 3'	193 5'-CCA 3'	193 5'-CCA 3'	357 5'-Tgg 3'
	165 5'-ACC 3'				412 5'-ATA 3'				477 5'-gCC 3'			
					412 5'-ATA 3'							
3'-primer(s) ³	203 5'-TCC 3'	208 5'-CTT 3'	475 5'-ggg 3'	419 5'-CgA 3'	499 5'-ggT 3'	605 5'-gCT 3'	409 5'-ATA 3'	412 5'-gTg 3'	175 5'-CCg 3'	412 5'-gTC 3'	272 5'-TgC 3'	559 5'-CTC 3'
		251 5'-CCg 3'	500 5'-ggA 3'		539 5'-TCC 3'		453 5'-TCC 3'	453 5'-TCC 3'	506 5'-TgA 3'			
		300 5'-CTg 3'	562 5'-gCg 3'				578 5'-TgA 3'	547 5'-gTg 3'				
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **5F8**

Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	220	210	245	260	130	115	180	115	225	75	155	160
PCR product	250		270		170	150	230	140	325	120	210	205
					195	250				150	240	
										180		
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	1070	1070	1070	800	1070	1070
5'-primer(s) ²	788	357	363	97	97	97	97	459	715	151	412	412
	5'-TAA 3'	5'-Tgg 3'	5'-Agg 3'	5'-TCC 3'	5'-TCC 3'	5'-TCC 3'	5'-TCC 3'	5'-gAg 3'	5'-CAg 3'	5'-gCC 3'	5'-ATA 3'	5'-ATA 3'
	806				428	363	363	493	736	173	652	
	5'-ggA 3'				5'-Cgg 3'	5'-AgC 3'	5'-Agg 3'	5'-CTg 3'	5'-gCA 3'	5'-CgC 3'	5'-CCA 3'	
	832							668	826	215		
	5'-AAA 3'							5'-ggC 3'	5'-CTT 3'	5'-gCA 3'		
										256		
										5'-ACT 3'		
										3 rd I		
										5'-Agg 3'		
3'-primer(s) ³	916	527	565	309	187	208	236	559	916	292	530	530
	5'-gAC 3'	5'-CCT 3'	5'-CAT 3'	5'-gTg 3'	5'-gTA 3'	5'-CTT 3'	5'-CCA 3'	5'-CTC 3'	5'-gAC 3'	5'-gTA 3'	5'-CCT 3'	5'-CCT 3'
			594	323	252	307	239	754		677	581	572
			5'-CCg 3'	5'-Agg 3'	5'-TC 3'	5'-CCA 3'	5'-gCT 3'	5'-Agg 3'		5'-ACT 3'	5'-ATT 3'	5'-gCg 3'
					559	437	302			704	761	580
					5'-CTC 3'	5'-AAC 3'	5'-ggC 3'			5'-CCA 3'	5'-CAg 3'	5'-TCA 3'
							543				853	
							5'-gCg 3'				5'-TAT 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
Length of spec.	250	245	100	105	175	220	130	155	110	75
PCR product	355		195	200		315	335		255	
						415	395			
Length of int. pos. control ¹	1070	800	1070	1070	1070	1070	1070	1070	1070	1070
5'-primer(s) ²	302	357	72	142	641	637	303	412	97	15
	5'-gAg 3'	5'-Tgg 3'	5'-gCT 3'	5'-TCA 3'	5'-gAT 3'	5'-ACA 3'	5'-..C 3'	5'-ATA 3'	5'-TCC 3'	5'-gCA 3'
	652		369			736	756			
	5'-CCA 3'		5'-TAC 3'			5'-gCA 3'	5'-ACT 3'			
						832				
						5'-AAA 3'				
3'-primer(s) ³	369	559	97	206	774	916	412	527	164	49
	5'-CCT 3'	5'-CTC 3'	5'-gTA 3'	5'-CCg 3'	5'-ggT 3'	5'-gAC 3'	5'-gTT 3'	5'-CCT 3'	5'-gCA 3'	5'-CAC 3'
	853		426	302			843		310	
	5'-TAT 3'		5'-TCC 3'	5'-ggC 3'			5'-gTT 3'		5'-gTg 3'	
	872						959			
	5'-TCA 3'						5'-CAg 3'			
Well No.	85	86	87	88	89	90	91	92	93	94

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.

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 5F8

Lot-specific information

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.

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 5F8

Lot-specific information

[illegible]

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: 5F8

Lot-specific information

CELL LINE VALIDATION SHEET																																	
HLA-B*40 SSP subtyping kit ²																																	
					Prod. No.:	Well																											
						17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32												
						201443717	201443718	201317819	201317820	201317821	201317822	201443723	201783924	201317825	201317826	201317827	201317828	201317829	201443730	201783931	201783932												
	IHCW 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		-	-	+	-	-	-	-	-		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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

Lot No.: **5F8**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*40 SSP subtyping kit ²																				
					Well															
				Prod. No.:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
					201443733	201317834	201317835	201783936	201317837	201317838	201443739	201317840	201317841	201783942	201317843	201443744	201667545	201667546	201783947	201443748
	IHCW 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	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: 5F8

Lot-specific information

CELL LINE VALIDATION SHEET																									
HLA-B*40 SSP subtyping kit ²																									
					Well																				
					Prod. No.:	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64				
						201317849	201443750	201783951	201317852	201443753	201443754	201443755	201317856	201783957	201317858	201783959	201443760	201443761	201443762	201443763	201317864				
	IHC 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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **5F8**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*40 SSP subtyping kit ²																				
					Well															
					65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				Prod. No.:	201443765	201317866	201783967	201783968	201317869	201443770	201317871	201443772	201783973	201443774	201443775	201443776	201443777	201443778	201667579	201783980
	IHC 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	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **5F8**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-B*40 SSP subtyping kit ²																			
					Well														
						81	82	83	84	85	86	87	88	89	90	91	92	93	94
				Prod. No.:		201667581	201783982	201783983	201443784	201783985	201443786	201443787	201667588	201443789	201783990	201783991	201667592	201783993	201783994
	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.523-24/03 – including *Taq* pol., IFU-01
101.523-24u/03u – without *Taq* pol., IFU-02

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Lot No.: **5F8**

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 11, 16, 23 to 25, 27, 34, 38, 42 to 45, 47 to 57, 59 to 63, 67 to 69, 71, 73, 75 to 83, 85, 87 to 91 and 93 were available.

The specificities of the primers in primer solutions 11, 16, 23, 25, 34, 38, 42, 43, 45, 48 to 50, 52, 54, 55, 61, 68, 69, 71, 76, 77, 79, 80, 82, 85, 87, 88 and 91 were tested by separately adding one or two additional 5'-primers, respectively one or two additional 3'-primers.

In primer solutions 27, 44, 53, 56, 57, 62, 63, 67, 75, 78, 83 and 93 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 24, 47, 51, 59, 60, 73, 81, 89 and 90 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

One, two or three of the 3'-primers in primer solutions 3, 6, 23, 50, 54, 68, 76, 77, 79, 80, 82, 84, 85, 87, 88 and 91 and one to four of the 5'-primers in primer solutions 1, 2, 7, 16, 23, 28, 30, 32, 34, 36, 40, 42, 45, 55, 61, 65, 77, 80, 82 and 91 were not possible to test.

Additional primers in primer solutions 2, 6, 18, 31 and 37 were tested by separately adding one additional 5'-primers or one or two additional 3'-primers.

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Lot No.: **5F8**

Lot-specific information

ADDRESSES:

Manufacturer:

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

Tel: +46-8-508 939 00

Fax: +46-8-717 88 18

E-mail: orders-se@caredx.com

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

Distributed by:

CareDx GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.

Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: orders-at@caredx.com

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

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

Tel: 1-877-653-78171

Fax: 610-344-7989

E-mail: orders-us@caredx.com

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

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