

101.522-24/03 – including *Taq* polymerase
101.522-24u/03u – without *Taq* polymerase

Visit www.caredx.com for
“Instructions for Use” (IFU)

Lot No.: **7R8**

Lot-specific information

Olerup SSP® HLA-B*35

Product number:	101.522-24/03 – including <i>Taq</i> pol. 101.522-24u/03u – without <i>Taq</i> pol.
Lot number:	7R8
Expiry date:	2027-06-01
Number of tests:	24 tests – Product No. 101.522-24/24u 3 tests – Product No. 101.522-03/03u
Number of wells per test:	95+1
Storage - pre-aliquoted primers:	dark, between -15°C and -25°C
- PCR Master Mix:	between -15°C and -25°C
- Adhesive PCR seals	RT

This Product Description is only valid for Lot No. 7R8.

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 (6N1)

- The product documentation has been updated for new alleles of IMGT 3.52.0.
- The kit resolution focuses on common and well documented (CWD) alleles¹.

¹As described in section Uniquely Identified Alleles.

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. 6N1**).

The HLA-B*35 primer set is unchanged compared to the previous lot.

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



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

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

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

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

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



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PRODUCT DESCRIPTION

HLA-B*35 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*35:01 to B*35:578 alleles.

PLATE LAYOUT

Each test consists of 95 PCR reactions in a 96 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	NC

The 96 well cut PCR plate is marked with ‘HLA-B*35’ in silver/gray ink.

Well No. 1 is marked with the Lot No. 7R8’.

Wells 1 to 95 – HLA-B*35 high resolution primers.

Well 96 – Negative Control (NC).

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are covered with a PCR-compatible foil.

INTERPRETATION

Due to the sharing of sequence motifs between HLA-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*35:578**, recognized by the HLA Nomenclature Committee in April 2023^{1,2,3} will be amplified by the primers in the HLA-B*35 subtyping kit.



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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.

The HLA-B*35 kit also enables identification of many 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
B*35:236, 35:381N	89

¹HLA-B alleles listed on the IMGT/HLA web page 2023-April-17, release 3.52.0, www.ebi.ac.uk/imgt/hla.

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

³The following alleles will give rise to identical amplification patterns with the HLA-B*35 subtyping kit. These alleles can be distinguished by the HLA-B low resolution kit and/or the respective high resolution subtyping kits:

Alleles

B*35:551N, 35:577, B*53:01:18
B*35:570, B*58:17N, 58:108



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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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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



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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		

¹Allele 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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SPECIFICITY TABLE

HLA-B*35 SSP subtyping

Specificities and sizes of the PCR products of the 95+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	*35:01:01:01-35:09:04, 35:11:01-35:12:04, 35:14:01-35:15:02, 35:17:01:01-35:18, 35:20:01-35:24:02, 35:27, 35:29:01-35:43:01, 35:43:03-35:45, 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, 35:208:01-35:209, 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, 35:362-35:449, 35:451-35:476, 35:478-35:533, 35:535-35:540, 35:542N-35:560, 35:562-35:569, 35:571-35:578	*08:01:36, 08:32, 08:133, 08:180, 08:239, 15:308, 15:436, 18:01:01:01-18:11, 18:13-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:106Q, 18:108-18:124, 18:126-18:177, 18:179-18:194:01:02, 18:196-18:231Q, 37:08, 37:67, 38:06-38:07, 39:19:01-39:19:02, 39:186, 44:06, 45:22, 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, 51:148-51:230:01:03, 51:232:01-51:266, 51:268-51:283, 51:285-51:309, 51:311-51:381, 53:01:01:01-53:16, 53:18-53:27, 53:29, 53:31-53:37, 53:40-53:72, 78:01:01:02-78:04, 78:07-78:10, C*12:301
2	150 bp	1070 bp	*35:01:01:01-35:01:54, 35:01:56-35:01:61, 35:01:63-35:04:03, 35:06-35:08:15, 35:10-35:17:04, 35:19-35:21, 35:23-35:30:01:02, 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,	*07:235, 07:359, 08:49, 08:255, 13:01:01:01-13:01:22, 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, 13:109-13:110, 13:122, 13:129, 13:135, 13:138, 13:141-13:142, 13:144, 13:146, 13:148, 13:161N-13:163, 13:168, 13:170-13:171, 13:173, 14:10, 14:102, 15:02:01:01-15:02:13, 15:13:01-15:13:03, 15:20-15:21:01:02, 15:25:01:01-15:25:04, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:88-15:89:02, 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,



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	190 bp		*35:77	
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33⁶	205 bp	1070 bp	*35:45, 35:71, 35:169, 35:309, 35:452	*07:20, 07:140, 07:153, 15:14, 15:91, 15:131, 15:161, 15:518, 15:551, 15:634, 18:56, 18:169, 39:173, 40:132, 40:178, 40:523, 44:10, 44:14, 44:17, 44:31, 44:43:01-44:43:02, 44:45, 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 44:135, 44:184, 44:213, 44:230, 44:339, 45:09, 45:14, 46:17, 51:23, 51:108, 52:15, 53:22, 55:122, 56:74, 57:07, 57:93, 57:119, 58:07, 82:01:01:01-82:03
	310 bp		*35:94	*15:640
34	185 bp 230 bp	800 bp	*35:214 *35:48, 35:433	*15:334, 44:133, 44:541, 46:70 *15:583, 37:39, 37:48, 37:97, 44:209, 53:07, 53:65, 58:121, C*03:90, C*03:103, C*03:300
35⁵	240 bp 365 bp	1070 bp	*35:40N *35:68:01, 35:151:02, 35:292, 35:535	*08:12:03, 08:107, 51:06:02, 53:47
36⁴	110 bp 180 bp 230 bp	800 bp	*35:79 *35:70, 35:220 *35:35, 35:468	*44:508 *15:601, 40:236 *15:265, 37:40, 38:20:01-38:20:02, 39:42, 39:195, 58:84, C*15:51
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38	300 bp	800 bp	*35:01:35, 35:02:01:01-35:02:20, 35:81, 35:83, 35:95, 35:129N, 35:146, 35:154, 35:157, 35:162, 35:172, 35:182-35:184, 35:211, 35:220, 35:258, 35:270, 35:273, 35:285, 35:309, 35:311, 35:323:01-35:323:02, 35:335, 35:339, 35:357, 35:361, 35:366-35:367, 35:372, 35:374, 35:377-35:379, 35:387, 35:391, 35:394, 35:396, 35:403, 35:407, 35:410, 35:419, 35:443, 35:468, 35:483, 35:487, 35:492, 35:501, 35:505, 35:508N, 35:522, 35:546, 35:550, 35:553, 35:557, 35:562, 35:565	56:23-56:30, 56:33-56:49, 56:51-56:87, 56:89-56:93, 58:73, 59:01:01:01-59:01:01:02, 59:04-59:10N, 59:12, 82:01:01:01-82:04
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39⁴	115 bp	1070 bp	*35:14:01-35:14:03, 35:43:01, 35:43:03-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:185, 35:213, 35:265, 35:343, 35:390N, 35:413, 35:475-35:476, 35:512, 35:549	*07:100, 13:31, 13:41, 13:131, 13:145, 13:164, 15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:18-15:01:30, 15:01:32-15:01:80, 15:04:01:01-15:04:04, 15:07:01:01-15:08:02, 15:11:01-15:12:03, 15:14-15:15:01:02, 15:19, 15:24:01-15:24:02, 15:26N-15:28, 15:30:01:01-15:30:01:03, 15:32:01-15:32:02, 15:34:01-15:35:02, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68, 15:70-15:71, 15:73:01:01-15:73:01:02, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:120, 15:122, 15:125:01-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160:01:02, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:180-15:184, 15:187, 15:189:01-15:193, 15:201-15:203, 15:205-15:207, 15:209N, 15:211-15:212, 15:215, 15:217, 15:225, 15:227-15:228, 15:231-15:234, 15:236, 15:239, 15:241, 15:244-15:247, 15:251:01-15:251:03, 15:256-15:262:02N, 15:264, 15:267, 15:269-15:270, 15:272N, 15:276-15:280, 15:284-15:286, 15:296, 15:298-15:299, 15:303-15:305, 15:309, 15:315-15:318, 15:320-15:321Q, 15:324, 15:326-15:327, 15:331, 15:333-15:334, 15:336, 15:340, 15:342-15:344, 15:346-15:347, 15:349:01-15:350, 15:353, 15:355, 15:359,



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41^{4,5}	110 bp	800 bp	*35:82, 35:85, 35:135, 35:200, 35:294	*15:376, 18:33, 37:57, 39:19:01-39:19:02, 51:22, 52:23, 78:03
42⁴	115 bp 155 bp 190 bp 250 bp	800 bp	*35:97 *35:53N *35:91 *35:65Q	*51:275 *44:337, 57:113, 58:138, C*03:347 C*15:243Q
43	205 bp	1070 bp	*35:54, 35:486	*08:151, 08:242, 08:272, 14:42:01-14:42:02, 51:140, C*06:147
	255 bp 400 bp		*35:89 *35:390N	*08:135
44⁴	110 bp 145 bp	1070 bp	*35:78	*51:272 *13:58, 18:09, 37:10, 44:83, 44:134, 44:445, 51:54, 51:78:01-51:78:02, 51:341, 51:371, 52:20, 53:09, 53:11-53:13, 53:31, 53:36, 53:38, 53:67, 58:137
	300 bp 165 bp	800 bp	*35:55 *35:01:01:01-35:01:27, 35:01:29-35:01:46, 35:01:48-35:30:01:02, 35:32:01-35:32:02, 35:33-35:34, 35:36-35:42:02, 35:45, 35:47-35:56, 35:58-35:59:02, 35:61:01-35:72, 35:74-35:78, 35:80-35:86, 35:88-35:134N, 35:136-35:184, 35:186-35:208:01, 35:209-35:278, 35:280-35:358, 35:360-35:466, 35:468-35:470, 35:472-35:474, 35:477-35:482, 35:484:01-35:533, 35:535-35:544, 35:546-35:548, 35:550-35:578	*44:350 *15:20, 15:228, 15:305, 15:435, 15:599, 15:658, 27:197, 37:80, 48:02:01-48:02:03, 49:66, 51:01:01:01-51:01:55, 51:01:57-51:24:05, 51:26-51:41N, 51:43-51:46, 51:48-51:156, 51:158:01-51:163, 51:165-51:219, 51:221-51:236, 51:238-51:294, 51:296-51:299, 51:301-51:306N, 51:308-51:358, 51:360-51:381, 52:01:01:01-52:01:50, 52:01:52-52:06:03, 52:08-52:107, 52:109-52:113, 53:01:01:01-53:01:27, 53:01:29-53:58, 53:60-53:72, 56:05:01-56:05:02, 56:21, 56:36, 58:01:01:01-58:01:21, 58:01:23-58:01:44, 58:02:01:01-58:02:02, 58:04-58:10N, 58:12-58:19, 58:21-58:29, 58:31N-58:104, 58:107-58:143, 67:05, 78:01:01:02-78:10, 81:03
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46^{5,6,10}	165 bp	800 bp	*35:31, 35:32:03, 35:35 ^w , 35:43:01, 35:43:03-35:44, 35:46, 35:57, 35:60, 35:79, 35:87, 35:135, 35:185, 35:208:02, 35:279, 35:471, 35:475-35:476	*07:02:01:01-07:02:05, 07:02:07-07:57, 07:59-07:404, 07:406-07:478, 08:01:01:01-08:01:43, 08:01:44 ^w , 08:01:45-08:01:68, 08:02-08:05, 08:07-08:177, 08:179-08:190, 08:192-08:297, 08:299-08:308, 13:01:01:01-13:01:11, 13:01:13-13:01:16, 13:01:18-13:02:28, 13:02:30-13:04, 13:06-13:23, 13:25-13:60, 13:62-13:179, 14:01:01:01 ^w -14:55 ^w , 14:56, 14:57 ^w -14:119 ^w , 15:01:01:01-15:01:04, 15:01:06-15:01:77, 15:01:79-15:04:03, 15:04:04 ^w , 15:05:01:01-15:19, 15:21:01:01-15:21:01:02, 15:23-15:40:02, 15:42-15:58, 15:60-15:99, 15:101, 15:103-15:129, 15:131-15:227, 15:229-15:283, 15:285-15:304N,



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48	390 bp	1070 bp	<p>*35:01:01:01-35:19, 35:21-35:25, 35:27, 35:29:01-35:43:01, 35:43:03-35:62, 35:64:01-35:71, 35:74-35:75, 35:77, 35:79-35:81, 35:83-35:84, 35:86-35:94, 35:96-35:134N, 35:136-35:185, 35:187-35:225, 35:227-35:228, 35:230-35:254, 35:256-35:293, 35:295, 35:297-35:316, 35:318-35:360, 35:362-35:367, 35:369-35:438, 35:440-35:462, 35:464-35:515, 35:517-35:533, 35:535-35:540, 35:542N-35:547, 35:549-35:558, 35:560, 35:562-35:569, 35:571-35:578</p>	<p>*08:267, 18:07:01-18:07:03:02, 18:29, 18:79, 18:136, 27:23, 37:21, 37:67, 40:08:01:01-40:08:01:02, 40:13, 40:68[?], 40:106[?], 40:162[?], 40:220[?], 40:232[?], 44:06, 44:232, 44:538, 51:01:01:01-51:06:04, 51:08:01:01-51:21, 51:23-51:24:05, 51:26-51:46, 51:48-51:127, 51:129-51:188, 51:190-51:213, 51:215-51:221, 51:223-51:235N, 51:237:01-51:250, 51:252-51:271, 51:273N-51:309, 51:311-51:339, 51:341-51:366, 51:368-51:381, 52:06:01-52:06:03, 53:01:01:01-53:08:02, 53:10-53:16, 53:18-53:27, 53:29-53:37, 53:39, 53:41-53:72, 78:01:01:02-78:02:02, 78:04, 78:07-78:10</p>
49	445 bp	800 bp	<p>*35:01:04, 35:02:17, 35:05:01:01-35:05:06, 35:08:03, 35:30:01:01-35:30:01:02, 35:58, 35:66, 35:68:02, 35:72, 35:89, 35:97, 35:114, 35:151:01, 35:232, 35:318, 35:367-35:368, 35:389, 35:416, 35:427N, 35:440, 35:459N, 35:472, 35:498-35:499, 35:509, 35:519, 35:541, 35:572</p>	<p>*18:22, 51:56:01, 53:14, 53:17:01, 53:67, 58:01:20, 58:16:01, 58:18</p>
50⁶	170 bp	1070 bp	<p>*35:101:01-35:101:02, 35:195, 35:211, 35:216N</p>	<p>*18:157:01:01-18:157:01:02, 51:76, 52:42</p>
51⁴	65 bp 155 bp 185 bp	1070 bp	<p>*35:145N *35:100, 35:102 *35:214</p>	<p>*18:158, C*07:719, C*12:381 *15:334, 44:133, 44:541, 46:70</p>



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52	220 bp 250 bp	1070 bp	*35:141 *35:104	
53⁶	135 bp 220 bp	1070 bp	*35:103 *35:129N ^w	*51:266
54	160 bp 190 bp	1070 bp	*35:106, 35:216N, 35:558 *35:110	*44:497, 58:77
55	205 bp 300 bp	1070 bp	*35:263 *35:108:01-35:108:02	*18:134, 40:283 [?] *37:91, 40:228 [?] , 44:248, 51:255, 53:26
56	140 bp 225 bp	1070 bp	*35:128 *35:107, 35:158	*08:179, 15:306
57⁶	150 bp 185 bp	800 bp	*35:149, 35:357 *35:111	*15:398, 15:581
58^{4,5}	110 bp 160 bp 200 bp	1070 bp	*35:139 *35:115, 35:260 *35:112:01	*15:326, 40:321, 44:157, 55:74, C*05:30, C*08:249 *08:37, 08:89, 08:107, 08:291, 15:51, 15:179:01-15:179:02, 15:199, 15:218Q, 15:518, 18:56, 18:113, 37:35, 37:56, 41:51, 42:09, 44:17, 44:230, 45:09, 53:22, 57:24, 57:119
59⁴	75 bp 150 bp	1070 bp	*35:116 *35:127	*15:359 *50:54, 55:100, 57:21
60⁴	90 bp 135 bp	800 bp	*35:121 *35:120	*15:606
61⁴	110 bp 175 bp 265 bp	800 bp	*35:139 *35:122 *35:123	*15:326, 40:321, 44:157, 55:74, C*05:30, C*08:249 *15:277-15:278, 40:339, 56:29 *50:67, 51:315
62	140 bp 260 bp	1070 bp	*35:144 *35:132, 35:246	C*15:56
63⁴	55 bp	1070 bp	*35:146, 35:407, 35:546	C*02:125, C*06:21, C*07:1024
64⁴	90 bp 245 bp	1070 bp	*35:130N *35:134N	C*03:636N, C*05:278N, C*15:160N
65⁶	220 bp	1070 bp	*35:148	C*03:521, C*07:942
66⁴	90 bp 115 bp	1070 bp	*35:133 *35:105, 35:113, 35:159, 35:397	
67⁴	105 bp 200 bp	1070 bp	*35:138 *35:191	*15:413, 44:26, 47:07 *40:227, 49:32, 50:63
68⁴	90 bp	1070 bp	*35:137, 35:140, 35:147, 35:182, 35:278, 35:540	*13:107, 18:102, 18:118, 27:52, 27:236, 40:308, 40:350, 44:134, 44:319, 45:22, 51:103, 51:203, 51:276, 52:106, A*02:598, A*02:695, A*24:343, A*24:562, A*69:05
69⁴	95 bp 325 bp	1070 bp	*35:143 *35:147	*13:101, 51:73, 55:26 C*01:232
70	135 bp	1070 bp	*35:98, 35:117, 35:165N	*15:197:01, 15:215
71⁴	120 bp 160 bp	800 bp	*35:126 *35:119	*13:111, 44:518, 54:44, 57:145
72	220 bp	1070 bp	*35:01:34, 35:03:11, 35:09:02-35:09:03, 35:18, 35:31, 35:64:01, 35:88, 35:114, 35:118,	*07:02:01:01-07:02:05, 07:02:07-07:02:13, 07:02:15-07:02:24, 07:02:26-07:02:34, 07:02:36-07:06:01:04, 07:06:03-07:67N, 07:68:03-07:99, 07:101-07:213, 07:215-07:234,



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73	205 bp	800 bp	*35:01:35, 35:02:01:01- 35:02:20, 35:81, 35:83, 35:95, 35:129N, 35:146, 35:154, 35:162, 35:172, 35:182-35:184, 35:211, 35:220, 35:258, 35:270, 35:273, 35:285, 35:309, 35:311, 35:323:01- 35:323:02, 35:335, 35:339, 35:357, 35:361, 35:366-35:367, 35:372, 35:374, 35:377-35:379, 35:387, 35:391, 35:394, 35:396, 35:403, 35:407, 35:410, 35:419, 35:443, 35:483, 35:487, 35:492, 35:501, 35:505,	*13:86, 45:12, 50:36, 53:19, 53:36, 58:01:02, 58:65, C*03:04:22



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74	160 bp	1070 bp	*35:173:01N- 35:173:02N, 35:275, 35:281	*08:67:01N-08:67:02N, 44:72, 44:204:01- 44:204:02
75⁴	90 bp 135 bp	1070 bp	*35:176 *35:27, 35:56, 35:185, 35:203, 35:355, 35:550	*18:49, 18:79, 18:108, 18:132, 18:142, 37:05, 37:96, 78:06, 78:09-78:10
76	145 bp 220 bp 375 bp	1070 bp	*35:271 *35:193 *35:161	*18:66, 46:47 C*08:89N *15:198
77	135 bp 180 bp 385 bp	1070 bp	*35:227 *35:245, 35:389 *35:36	
78	310 bp	1070 bp	*35:94	*15:640
79⁴	100 bp	1070 bp	*35:131:01	*13:122, 15:349:01, 15:577, 51:254
80⁴	110 bp	1070 bp	*35:194, 35:228	*44:288
81⁴	80 bp 120 bp 260 bp	1070 bp	*35:219 *35:228 *35:293	*13:157, 15:158, 58:42
82	200 bp	1070 bp	*35:225	*15:616Q
83⁴	95 bp 180 bp	1070 bp	*35:250 *35:245, 35:389	*51:165
84	130 bp	1070 bp	*35:52, 35:92	
85	415 bp	1070 bp	*35:42:01, 35:42:02 [?]	*18:07:01-18:07:03:02, 18:29, 18:79, 18:136, 27:23, 37:21, 37:67, 40:08:01:01-40:08:01:02, 40:13, 40:68 [?] , 40:106 [?] , 40:162 [?] , 40:220 [?] , 40:232 [?] , 44:06, 44:232, 44:538, 56:89, 56:91, 59:01:01:01-59:07, 59:09-59:12, C*06:147
86	500 bp	1070 bp	*35:03:27, 35:08:05, 35:42:02	*44:02:10, 44:06, 44:34:01, 51:04:01-51:04:02, 51:42, 51:56:01-51:56:03, 51:139, 51:227, 51:281, 51:310, 51:359, 53:01:13, 53:06
87⁴	125 bp	1070 bp	*35:241	
88⁶	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, 35:27-35:28:01:03, 35:30:01:01-35:43:01, 35:43:03-35:45, 35:48, 35:50-35:62, 35:64:01- 35:68:02, 35:70-35:72, 35:74-35:75, 35:77- 35:135, 35:137-35:152, 35:155-35:185, 35:187- 35:197, 35:199-35:202, 35:204-35:206, 35:208:01-35:209, 35:211-35:216N, 35:218-35:228, 35:230- 35:242, 35:244-35:248, 35:250-35:253,	*08:133, 15:01:50, 15:202, 15:239, 15:308, 15:376, 15:436, 18:01:01:01-18:01:01:75, 18:01:03-18:01:22, 18:01:24-18:02:03, 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, 18:95-18:106Q, 18:109-18:124, 18:126- 18:131:01:02, 18:133-18:135:01:02, 18:137- 18:141, 18:143-18:151, 18:153-18:170, 18:173, 18:175-18:177, 18:179-18:193, 18:196-18:197, 18:199-18:202, 18:204-18:226, 18:228, 18:230- 18:231Q, 37:01:02, 37:11, 37:14, 37:29, 37:67, 39:186, 40:185, 40:209, 40:308, 40:350, 40:365, 45:22, 51:185, 51:247, 52:01:29, 52:09:01-52:09:02, 52:68, 53:05:01-53:05:02, 53:16, 53:33, 58:64, 58:96, 78:02:01-78:02:02, 78:04-78:06, 78:09-78:10, C*12:301



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89⁴	110 bp 240 bp	1070 bp	*35:381N *35:236, 35:259, 35:333Q	*53:48N, C*15:177N *37:16Q, 44:29, 44:89, 44:160Q, 44:285, 57:140, C*03:215, C*15:96Q
90⁴	120 bp	800 bp	*35:46-35:47, 35:154, 35:207, 35:217, 35:257, 35:278, 35:450, 35:566	*08:155, 40:07-40:08:01:02, 40:13, 40:68, 40:106, 40:162, 40:220, 40:232, 41:46, 44:232, 44:538, 49:67, 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, 08:291, 14:56, 15:50, 15:69, 15:93, 15:186, 15:199, 15:348, 15:368, 15:449, 15:494, 15:497, 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, 18:37:01-18:40, 18:42-18:49, 18:51-18:55, 18:59-18:60, 18:62-18:85, 18:87-18:96, 18:98:01-18:100, 18:102-18:105, 18:107- 18:121, 18:123-18:147, 18:149-18:163, 18:167, 18:170-18:188, 18:190, 18:192-18:198, 18:200- 18:204, 18:206-18:212, 18:214-18:216, 18:218- 18:226, 18:229-18:231Q, 37:35, 37:56, 38:52, 38:88, 39:07, 39:43, 39:91, 41:51, 42:09, 46:03, 46:21:01-46:21:02, 46:29, 46:83, 53:69, 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*05:215, C*06:89, C*07:123:01-07:123:02, C*07:173, C*07:294, C*08:113, C*12:113, C*15:09:01:01-15:09:02, C*15:19, C*15:27, C*15:61, C*15:107, C*15:126, C*15:143, C*15:194, C*16:20, C*16:109
92	190 bp	1070 bp	*35:298	*46:39
93⁷	405 bp	1070 bp	*35:03:01:01-35:03:35, 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- 35:205:03, 35:213, 35:221, 35:223, 35:231,	*08:49, 08:69, 08:200, 14:01:01:01-14:02:19, 14:02:21-14:12, 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, 14:61-14:62, 14:64, 14:66-14:92, 14:94-14:96, 14:98-14:119, 15:58, 15:133, 15:137, 15:229, 15:253, 15:460, 15:488, 18:122, 18:148, 18:168, 18:227, 37:11, 37:14, 37:29, 37:37, 37:67, 38:03, 38:41, 38:47, 38:67, 39:01:01:01-39:01:01:29, 39:01:03:01- 39:01:15, 39:01:17-39:06:05, 39:06:07- 39:06:08, 39:08-39:09:04, 39:10:01-39:13:02, 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- 39:133N, 39:135-39:142N, 39:144-39:163,



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96¹¹	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*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 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 22, 35, 41, 46 and 58 may have a tendency to giving rise to primer oligomer formation.

⁶Primer mixes 3, 6, 7, 8, 10, 30, 31, 33, 46, 50, 53, 57, 65 and 88 have tendencies of unspecific amplifications.

⁷Primer mixes 3, 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.

⁸Primer mix 7 may faintly amplify the B*44 alleles.

⁹Primer mix 14 may faintly amplify the B*37 alleles.

¹⁰In primer mix 46 the positive control band may be weaker than for other HLA-B*35 primer mixes.

¹¹Primer mix 96 contains a negative control, which will amplify the majority of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 200 base pairs.

Abbreviations

w: might be weakly amplified.

?: nucleotide sequence of the primer matching region not known.



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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. PCR product	95	150	115	280	290	85	160	280	140	140	225	95
							330			205		125
										240		
Length of int. pos. control ¹	800	1070	1070	1070	800	1070	800	1070	800	1070	800	1070
5'-primer(s) ²	201 5'-CCA 3'	355 5'-TCA 3'	412 5'-ATg 3'	419 5'-gTC 3'	397 5'-gCT 3'	419 5'-gTA 3'	142 5'-TCA 3'	419 5'-gTT 3'	363 5'-AgC 3'	49 5'-CAg 3'	355 5'-TCA 3'	206 5'-gAC 3'
	206 5'-gAC 3'				412 5'-ATA 3'		368 5'-gTT 3'	419 5'-gTT 3'	363 5'-AgC 3'	388 5'-CCT 3'		
3'-primer(s) ³	259 5'-gTT 3'	463 5'-gCT 3'	486 5'-gCg 3'	3 rd 5'-TAT 3'	3 rd 5'-TAT 3'	463 5'-gCT 3'	259 5'-gTT 3'	3 rd 5'-TAT 3'	463 5'-gCT 3'	85 5'-CAA 3'	538 5'-CCg 3'	259 5'-CTC 3'
	259 5'-gTT 3'		486 5'-gCT 3'				3 rd 5'-TAT 3'			119 5'-ggA 3'		289 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. PCR product	170	75	135	95	180	105	230	200	260	90	190	425
				190		180				270		
Length of int. pos. control ¹	800	800	1070	1070	800	800	1070	1070	800	1070	800	1070
5'-primer(s) ²	527 5'-TgA 3'	355 5'-TCA 3'	463 5'-TgA 3'	112 5'-CCg 3'	106 5'-CCA 3'	206 5'-gAC 3'	106 5'-CCA 3'	141 5'-ATT 3'	49 5'-CAg 3'	209 5'-ggC 3'	379 5'-ACC 3'	49 5'-CAg 3'
				206 5'-gAA 3'		419 5'-gTC 3'		412 5'-ATA 3'		355 5'-TCA 3'	379 5'-ATC 3'	
3'-primer(s) ³	3 rd 5'-TAT 3'	387 5'-TCC 3'	559 5'-CTC 3'	259 5'-gTT 3'	246 5'-TAT 3'	272 5'-Tgg 3'	292 5'-gTC 3'	309 5'-ATC 3'	142 5'-TgA 3'	259 5'-gTT 3'	527 5'-CCA 3'	301 5'-gTC 3'
						559 5'-CgT 3'	299 5'-TCA 3'	559 5'-CTC 3'		583 5'-gTg 3'	527 5'-CCA 3'	309 5'-ATC 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24



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Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	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'
	3 rd 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	400	300				
						250						
Length of int.	1070	800	1070	1070	800	800	1070	1070	800	800	800	1070
pos. control ¹												
5'-primer(s) ²	420	390	463	167	206	106	41	206	652	652	419	49
	5'-TTA 3'	5'-gAT 3'	5'-TgA 3'	5'-gCT 3'	5'-gAC 3'	5'-CCA 3'	5'-CTA 3'	5'-gAC 3'	5'-CCg 3'	5'-CCA 3'	5'-gTT 3'	5'-CAg 3'
		397				355	106	355				
		5'-gCT 3'				5'-TCA 3'	5'-CCg 3'	5'-TCA 3'				
							363					
							5'-AgC 3'					
							363					
							5'-AgC 3'					
3'-primer(s) ³	463	3 rd 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



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Lot No.: **7R8**

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	445	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	209	206	190	355	106	206	49	115	106	106	352	367
	5'-ggA 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	3 rd 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



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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. pos. control ¹	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
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	94	95
Length of spec.	415	500	125	130	110	120	180	190	405	520	370
PCR product					240						
Length of int. pos. control ¹	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070
5'-primer(s) ²	25	141	691	201	355	193	419	625	302	302	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'	5'-gAg 3'	5'-gAg 3'
				206							
				5'-gAC 3'							
3'-primer(s) ³	272	353	774	292	426	272	559	774	419	538	387
	5'-TgA 3'	5'-TgA 3'	5'-ggT 3'	5'-gTA 3'	5'-TCT 3'	5'-TgA 3'	5'-CgT 3'	5'-ggT 3'	5'-CgA 3'	5'-CCg 3'	5'-TCg 3'
					544						
					5'-ggT 3'						
					563						
					5'-CgT 3'						
Well No.	85	86	87	88	89	90	91	92	93	94	95

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

²The nucleotide position matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.



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Date: June 2023, Rev. No: 00

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101.522-24u/03u – without *Taq* polymerase

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“Instructions for Use” (IFU)

Lot No.: **7R8**

Lot-specific information

CELL LINE VALIDATION SHEET					Well ³																
HLA-B*35 SSP subtyping ²					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
					Prod. No.:	201893101	202349602	201893103	201893104	202349605	201893106	201893107	201893108	201893109	201893110	201893111	201893112	201893113	201893114	201893115	201893116
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	+	+	+	+	-	-	-	-	-	-	-	-	-	+	-	-	-



0197

101.522-24/03 – including *Taq* polymerase
101.522-24u/03u – without *Taq* polymerase

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Lot No.: **7R8**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-B*35 SSP subtyping²																			
				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	202349630	202349631	202349632
	IHC cell line ¹	B*																	
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+
2	9280 LK707	*52:01	*73:01	-	+	-	-	-	-	-	+	-	-	W	-	+	-	-	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	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-



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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	202349641	201893142	201902943	202349644	201893145	202136146	201893147	201893148
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



0197

101.522-24/03 – including *Taq* polymerase
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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
				202349649	201893150	201893151	201893152	202349653	201893154	201893155	201853156	201893157	202349658	202349659	201893160	202349661	201893162	201893163	201893164
			Prod. No.:																
	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



0197

For *In Vitro* Diagnostic Use
MA123 v02 SSP PI Template
Date: June 2023, Rev. No: 00

101.522-24/03 – including *Taq* polymerase
101.522-24u/03u – without *Taq* polymerase

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Lot No.: **7R8**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B*35 SSP subtyping²																				
			Prod. No.:	Well ³																
				65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
	IHC cell line¹	B*		201893165	201893166	201893167	201893168	201893169	201893170	201893171	201893172	202349673	201893174	201893175	201893176	201893177	201893178	201893179	201893180	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



0197

101.522-24/03 – including *Taq* polymerase
101.522-24u/03u – without *Taq* polymerase

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Lot No.: **7R8**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-B*35 SSP subtyping²																			
				Well³															
				81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	
				Prod. No.:	201893181	201893182	202349683	201893184	201893185	201893186	201893187	201893188	201902989	202349690	201893191	201893192	202349693	201902994	202349695
IHWC cell line¹		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	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+



0197

101.522-24/03 – including *Taq* polymerase
101.522-24u/03u – without *Taq* polymerase

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Lot No.: **7R8**

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.

³The 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, and one, two or three additional 3'-primers accordingly.

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 be tested.

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 be tested.

In primer solutions 10, 16, 33 to 36, 38, 43, 64, 69, 73 and 77 one, two or three of the 5'-primers were not possible to be tested, 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 be tested.

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



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101.522-24/03 – including *Taq* polymerase
101.522-24u/03u – without *Taq* polymerase

Visit www.caredx.com for
“Instructions for Use” (IFU)

Lot No.: **7R8**

Lot-specific information

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