

101.611-12 – including *Taq* polymerase
101.611-12u – without *Taq* polymerase

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

Lot No.: **1S7**

Lot-specific information

Olerup SSP[®] HLA-C*03

Product number:	101.611-12 – including <i>Taq</i> polymerase 101.611-12u – without <i>Taq</i> polymerase
Lot number:	1S7
Expiry date:	2027-10-01
Number of tests:	12
Number of wells per test:	62+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. 1S7.

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] HLA-C*03 LOT (6N6).

- The product documentation has been updated for new alleles of IMGT 3.53.0.
- The kit resolution focuses on common and well documented (CWD) alleles¹.

¹As described in section Uniquely Identified Alleles.

The HLA-C*03 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP[®]* HLA-C*03 lot was made (**Lot No. 6N6**).

The HLA-C*03 primer set is unchanged compared to the previous *Olerup SSP[®]* HLA-C*03 lot (**Lot No. 6N6**).

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 **63** 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-C*03 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C*03:02 to C*03:640 alleles.

PLATE LAYOUT

Each test consists of 63 PCR reactions in a 64 well cut PCR plate. Well 64 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	NC	empty

The 64 well cut PCR plate is marked with ‘HLA-C*03’ in silver/gray ink.
Well No. 1 is marked with the Lot Number ‘1S7’.

Wells 1 to 62 – HLA-C*03 high resolution primers.

Well 63 – Negative Control (NC).

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays and should be disregarded.
The PCR plates are heat-sealed with a PCR-compatible foil.

INTERPRETATION

Due to the sharing of sequence motifs between HLA-C alleles, non-HLA-C*03 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-C*03 alleles, i.e. **C*03:02 to C*03:640**, recognized by the HLA Nomenclature Committee in July 2023^{1,2} will be amplified by the primers in the HLA-C*03 subtyping kit³.

The HLA-C*03 kit enables separation of the confirmed HLA-C*03 alleles as listed in the IMGT/HLA database 3.25.0. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-C*03 alleles is listed below.

The HLA-C*03 kit also enables identification of many null and alternatively expressed alleles.



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The following HLA-C*03 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*03:04:19, 03:265N	12	C*03:44, 03:123, 03:209	31
C*03:06:01-03:06:02, 03:287:01-03:287:02	6	C*03:49, 03:103	23
C*03:23N, 03:263:01-03:263:02	18	C*03:50, 03:122	36
C*03:24, 03:236	19	C*03:62, 03:346	33
C*03:28, 03:90	23	C*03:68, 03:205	41
C*03:31, 03:414	7, 11	C*03:72, 03:219	36
C*03:37:01-03:37:02, 03:208N	27	C*03:91:01, 03:465	44

¹HLA-C alleles listed on the IMGT/HLA web page 2022-January-13, release 3.47.0, 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 give rise to identical amplification patterns with the HLA-C*03 subtyping kit. These alleles can be distinguished by the HLA-C low resolution kit and/or respective high-resolution kits:

Alleles

C*03:135, 03:154, 03:260, 03:286, 03:326, 03:412,
03:435, 03:464, 03:493, 03:532, 03:591, C*15:43
C*03:530, C*01:131



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Allele Confirmation Status

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



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C*03:89	Unconfirmed	C*03:136	Confirmed	C*03:185	Unconfirmed	C*03:233	Unconfirmed
C*03:90	Confirmed	C*03:137	Confirmed	C*03:186:01	Unconfirmed	C*03:234	Unconfirmed
C*03:91:01	Unconfirmed	C*03:138	Unconfirmed	C*03:186:02	Unconfirmed	C*03:235	Unconfirmed
C*03:91:02	Unconfirmed	C*03:139	Confirmed	C*03:187	Unconfirmed	C*03:236	Unconfirmed
C*03:92	Unconfirmed	C*03:140	Confirmed	C*03:188	Unconfirmed	C*03:237	Unconfirmed
C*03:93	Unconfirmed	C*03:141	Unconfirmed	C*03:189N	Unconfirmed	C*03:238	Unconfirmed
C*03:94	Unconfirmed	C*03:142	Unconfirmed	C*03:190	Unconfirmed	C*03:239	Unconfirmed
C*03:95	Confirmed	C*03:143	Unconfirmed	C*03:191	Unconfirmed	C*03:240	Unconfirmed
C*03:96	Confirmed	C*03:144	Unconfirmed	C*03:192	Confirmed	C*03:241	Unconfirmed
C*03:97	Unconfirmed	C*03:145	Confirmed	C*03:193	Unconfirmed	C*03:242	Unconfirmed
C*03:98	Unconfirmed	C*03:146	Unconfirmed	C*03:194	Unconfirmed	C*03:243	Confirmed
C*03:99	Unconfirmed	C*03:147	Confirmed	C*03:195	Unconfirmed	C*03:244Q	Unconfirmed
C*03:100	Confirmed	C*03:148	Unconfirmed	C*03:196	Unconfirmed	C*03:245	Unconfirmed
C*03:101	Confirmed	C*03:149	Unconfirmed	C*03:197	Unconfirmed	C*03:246	Unconfirmed
C*03:102	Unconfirmed	C*03:150	Unconfirmed	C*03:198	Confirmed	C*03:247	Unconfirmed
C*03:103	Unconfirmed	C*03:151	Confirmed	C*03:199	Unconfirmed	C*03:248	Unconfirmed
C*03:104	Unconfirmed	C*03:152	Unconfirmed	C*03:200	Unconfirmed	C*03:249	Unconfirmed
C*03:105	Unconfirmed	C*03:153	Confirmed	C*03:201N	Unconfirmed	C*03:250	Confirmed
C*03:106	Unconfirmed	C*03:154	Unconfirmed	C*03:202	Unconfirmed	C*03:251	Confirmed
C*03:107	Unconfirmed	C*03:155	Confirmed	C*03:203	Unconfirmed	C*03:252	Unconfirmed
C*03:108	Unconfirmed	C*03:156	Unconfirmed	C*03:204	Unconfirmed	C*03:253	Unconfirmed
C*03:109	Confirmed	C*03:157	Unconfirmed	C*03:205	Unconfirmed	C*03:254	Unconfirmed
C*03:110	Unconfirmed	C*03:158	Unconfirmed	C*03:206	Confirmed	C*03:255	Unconfirmed
C*03:111	Unconfirmed	C*03:159	Unconfirmed	C*03:207	Unconfirmed	C*03:256	Unconfirmed
C*03:112	Unconfirmed	C*03:160	Unconfirmed	C*03:208N	Unconfirmed	C*03:257	Unconfirmed
C*03:113:01	Confirmed	C*03:161	Unconfirmed	C*03:209	Confirmed	C*03:258	Confirmed
C*03:113:02	Unconfirmed	C*03:162	Unconfirmed	C*03:210	Unconfirmed	C*03:259	Unconfirmed
C*03:114	Unconfirmed	C*03:163	Unconfirmed	C*03:211:01	Confirmed	C*03:260	Unconfirmed
C*03:115	Confirmed	C*03:164	Unconfirmed	C*03:211:02	Unconfirmed	C*03:261	Unconfirmed
C*03:116:01	Confirmed	C*03:165	Confirmed	C*03:212	Confirmed	C*03:262	Unconfirmed
C*03:116:02	Unconfirmed	C*03:166	Unconfirmed	C*03:213	Unconfirmed	C*03:263:01	Unconfirmed
C*03:117	Unconfirmed	C*03:167	Confirmed	C*03:214	Confirmed	C*03:263:02	Unconfirmed
C*03:118	Unconfirmed	C*03:168	Unconfirmed	C*03:215	Unconfirmed	C*03:264	Unconfirmed
C*03:119	Unconfirmed	C*03:169Q	Unconfirmed	C*03:216	Unconfirmed	C*03:265N	Unconfirmed
C*03:120	Confirmed	C*03:170	Unconfirmed	C*03:217	Unconfirmed	C*03:266	Unconfirmed
C*03:121N	Unconfirmed	C*03:171	Unconfirmed	C*03:218	Unconfirmed	C*03:267	Unconfirmed
C*03:122	Confirmed	C*03:172	Unconfirmed	C*03:219	Unconfirmed	C*03:268	Unconfirmed
C*03:123	Confirmed	C*03:173	Unconfirmed	C*03:220	Unconfirmed	C*03:269	Unconfirmed
C*03:124	Unconfirmed	C*03:174	Confirmed	C*03:221	Confirmed	C*03:270	Unconfirmed
C*03:125	Unconfirmed	C*03:175	Unconfirmed	C*03:222	Unconfirmed	C*03:271	Unconfirmed
C*03:126	Confirmed	C*03:176	Confirmed	C*03:223	Unconfirmed	C*03:272	Confirmed
C*03:127	Unconfirmed	C*03:177	Unconfirmed	C*03:224N	Unconfirmed	C*03:273	Unconfirmed
C*03:128	Unconfirmed	C*03:178	Unconfirmed	C*03:225	Unconfirmed	C*03:274	Unconfirmed
C*03:129	Unconfirmed	C*03:179	Unconfirmed	C*03:226	Unconfirmed	C*03:275	Unconfirmed
C*03:130	Unconfirmed	C*03:180	Unconfirmed	C*03:227	Unconfirmed	C*03:276	Unconfirmed
C*03:131	Unconfirmed	C*03:181	Unconfirmed	C*03:228	Unconfirmed	C*03:277N	Unconfirmed
C*03:132	Unconfirmed	C*03:182	Unconfirmed	C*03:229N	Unconfirmed	C*03:278	Unconfirmed
C*03:133	Unconfirmed	C*03:183	Unconfirmed	C*03:230	Unconfirmed	C*03:279	Unconfirmed
C*03:134	Unconfirmed	C*03:184:01	Confirmed	C*03:231	Unconfirmed	C*03:280	Unconfirmed
C*03:135	Unconfirmed	C*03:184:02	Unconfirmed	C*03:232	Unconfirmed	C*03:281	Unconfirmed



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C*03:282	Unconfirmed	C*03:302	Unconfirmed	C*03:322	Unconfirmed
C*03:283	Unconfirmed	C*03:303	Unconfirmed	C*03:323N	Unconfirmed
C*03:284	Unconfirmed	C*03:304	Unconfirmed	C*03:324	Unconfirmed
C*03:285	Unconfirmed	C*03:305	Unconfirmed		
C*03:286	Unconfirmed	C*03:306	Unconfirmed		
C*03:287	Unconfirmed	C*03:307	Unconfirmed		
C*03:288	Unconfirmed	C*03:308	Unconfirmed		
C*03:289	Unconfirmed	C*03:309	Unconfirmed		
C*03:290	Unconfirmed	C*03:310	Unconfirmed		
C*03:291	Unconfirmed	C*03:311	Confirmed		
C*03:292	Unconfirmed	C*03:312	Unconfirmed		
C*03:293	Unconfirmed	C*03:313	Unconfirmed		
C*03:294	Unconfirmed	C*03:314	Unconfirmed		
C*03:295	Unconfirmed	C*03:315	Unconfirmed		
C*03:296	Unconfirmed	C*03:316N	Unconfirmed		
C*03:297	Unconfirmed	C*03:317	Unconfirmed		
C*03:298	Unconfirmed	C*03:318N	Unconfirmed		
C*03:299	Unconfirmed	C*03:319	Unconfirmed		
C*03:300	Unconfirmed	C*03:320	Unconfirmed		
C*03:301	Unconfirmed	C*03:321	Unconfirmed		

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

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in HLA-C*03 homo- and heterozygotes is available upon request.



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SPECIFICITY TABLE

HLA-C*03 SSP subtyping

Specificities and sizes of the PCR products of the 62+1 primer mixes used for HLA-C*03 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*03 alleles ³	Other amplified HLA Class I alleles
1	280 bp	800 bp	*03:02:01-03:02:09, 03:02:11-03:02:30, 03:04:01:01-03:04:25, 03:04:27-03:10, 03:14-03:17:02, 03:19, 03:23N-03:29, 03:32:01:01-03:38:02, 03:40:01-03:42:02, 03:44-03:48, 03:51, 03:54, 03:57:01-03:57:02, 03:60, 03:63-03:64:01, 03:65, 03:70-03:74, 03:77-03:78, 03:80:01-03:80:02, 03:82, 03:84, 03:87:01-03:87:02, 03:89-03:95, 03:98, 03:100-03:101, 03:104-03:111, 03:113:01-03:115:02, 03:117-03:118, 03:121N, 03:123, 03:125, 03:128-03:131, 03:134-03:136, 03:138-03:140:01:02, 03:143, 03:145-03:149, 03:153-03:155, 03:157, 03:159, 03:162-03:164, 03:169Q, 03:172-03:174, 03:178-03:181, 03:183-03:184:02, 03:186:01-03:186:02, 03:190-03:191, 03:193-03:194, 03:197-03:201N, 03:208N-03:213, 03:215-03:216, 03:218-03:219, 03:221-03:222, 03:224N-03:226, 03:232-03:236, 03:238-03:240, 03:244Q-03:246, 03:248-03:250, 03:252, 03:255-03:261, 03:263:01-03:263:03, 03:265N-03:266, 03:269-03:270, 03:277N, 03:278 ^w , 03:279-03:283, 03:286-03:287:02, 03:292-03:294, 03:296:01-03:303, 03:305-03:306, 03:309-03:311, 03:313-03:315, 03:317-03:318N, 03:322-03:323N, 03:326, 03:328-03:335, 03:337-03:338, 03:340, 03:342-03:343, 03:347-03:350, 03:353-03:355, 03:358-03:359, 03:361-03:362, 03:365-03:366N, 03:368-03:369, 03:371, 03:373, 03:376, 03:379, 03:381-03:382, 03:384-03:388, 03:390-03:394, 03:396:01N-03:397, 03:399-03:412, 03:415, 03:417,	*01:169:02, 02:02:01-02:02:03, 02:02:06-02:02:29, 02:02:31-02:02:39, 02:02:41-02:02:66, 02:02:68-02:03, 02:04 ^w , 02:05:01-02:13, 02:14:01 ^w -02:14:02 ^w , 02:15-02:25Q, 02:26:02-02:32, 02:34-02:40:02, 02:42-02:86, 02:88-02:106, 02:108-02:133, 02:135N-02:151, 02:153-02:163, 02:165N-02:166, 02:168-02:190, 02:192N-02:223N, 04:03:01:01-04:03:11, 04:06:01-04:06:03, 04:16, 04:80, 04:107, 04:147, 04:160:01-04:160:02, 04:171, 04:256, 04:286, 04:294, 04:299, 04:335, 04:337, 04:351:01-04:351:02, 04:357, 04:363, 04:381, 04:383, 04:393, 04:400, 04:402, 04:473, 04:489, 04:506, 05:58:01, 05:58:03, 06:03:01, 06:132:01-06:132:02, 07:02:10 ^w , 07:96:01-07:96:02, 07:127:01 ^w , 07:314:02, 07:578, 07:756, 08:01:35, 12:02:17, 12:03:23, 12:140:02, 12:353, 15:02:01:01-15:02:20, 15:02:22-15:02:24, 15:02:26-15:05:07, 15:05:10-15:05:14, 15:05:16-15:09:02, 15:10:02-15:10:03, 15:11, 15:13:01:01-15:13:02, 15:15-15:19, 15:21-15:22, 15:24-15:35, 15:37-15:60, 15:62, 15:64-15:106, 15:108-15:137, 15:139-15:143, 15:145N-15:157, 15:159-15:207, 15:209-15:241, 15:243Q-15:260, 16:34, 16:70, 16:121, B*15:125:02, B*40:164, B*46:77, B*58:74



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2	210 bp	1070 bp	*03:02:01-03:02:30, 03:14-03:15, 03:33, 03:36, 03:40:01-03:40:04, 03:42:01-03:43:02, 03:60, 03:71, 03:84, 03:89, 03:95, 03:108, 03:110, 03:119:01-03:119:02, 03:121N, 03:132, 03:139, 03:146, 03:169Q, 03:175, 03:190, 03:194, 03:197-03:201N, 03:216, 03:221- 03:222, 03:224N-03:226, 03:238, 03:240, 03:245, 03:248, 03:258, 03:264, 03:271, 03:279, 03:298- 03:301, 03:315, 03:329-03:330, 03:332, 03:338, 03:349-03:350, 03:361, 03:365, 03:371, 03:373, 03:391N, 03:402-03:403, 03:406, 03:411, 03:425, 03:429, 03:431, 03:449N, 03:452, 03:468, 03:473, 03:475, 03:489, 03:497, 03:505, 03:544, 03:547, 03:549, 03:561, 03:575Q, 03:584, 03:589, 03:596, 03:609-03:610, 03:612-03:615, 03:618N-03:619N, 03:623, 03:625N-03:626, 03:637:01- 03:638	*07:133:01, 07:242, 07:330:01, 07:748, B*15:96, B*35:537
3	280 bp	800 bp	*03:03:01:01-03:03:20, 03:03:22- 03:03:50, 03:03:52-03:03:66, 03:11:01-03:11:02, 03:13:01:01- 03:13:02, 03:18:02-03:18:03, 03:20N-03:22Q, 03:30-03:31, 03:43:01-03:43:02, 03:49-03:50, 03:52-03:53, 03:55-03:56, 03:58- 03:59, 03:61-03:62, 03:66, 03:67 ^w , 03:68-03:69, 03:75-03:76,	*15:12, 15:144



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4	275 bp	1070 bp	*03:03:01:01-03:04:102, 03:06:01:01-03:11:02, 03:14, 03:18:01-03:24, 03:26:01- 03:26:02, 03:28-03:32:01:02, 03:34, 03:37:01-03:40:04, 03:42:01-03:57:02, 03:59, 03:61- 03:70, 03:72-03:83, 03:85, 03:87:01-03:88, 03:90-03:93, 03:96:01-03:96:02, 03:98, *01:131, 15:171, 15:218, B*35:537, B*44:274



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5	275 bp	1070 bp	*03:05:01:01-03:05:01:03, 03:13:01:01-03:13:02, 03:17:01-03:17:02, 03:25, 03:27, 03:35:01-03:35:02:02, 03:71, 03:167, 03:178, 03:198, 03:249, 03:267, 03:271, 03:292, 03:296:01-03:296:02, 03:302, 03:335, 03:386, 03:407, 03:474, 03:482, 03:494, 03:555, 03:608	*01:65, 04:201:02, 04:212, 05:86, 05:201, 07:133:01, 07:242, 07:330:01, 07:748, B*15:96
6⁴	90 bp	800 bp	*03:21, 03:80:02, 03:142, 03:287:01-03:287:02, 03:413, 03:612	B*15:96
	215 bp		*03:06:01-03:06:02	
7^{4,5}	110 bp	1070 bp	*03:08, 03:29, 03:31, 03:246, 03:555	*01:118, 01:128, 01:195, 06:44, 06:252, 07:01:01:01-07:01:02:15, 07:01:04-07:01:24,



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8	255 bp	1070 bp	*03:09, 03:22Q, 03:42:01- 03:42:02, 03:71, 03:89, 03:116:01-03:116:02, 03:119:01- 03:119:02, 03:139, 03:169Q, 03:199, 03:240, 03:249, 03:267, 03:292, 03:300, 03:402, 03:608, 03:639	*04:201:02, 04:212, 05:86, 05:201, 07:133:01, 07:242, 07:330:01, 07:748, 15:218, B*35:537, B*56:37



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9	240 bp	1070 bp	*03:07:01:01-03:07:02, 03:15, 03:45, 03:130, 03:140:01:01-03:140:01:02, 03:163, 03:243, 03:268, 03:297, 03:461	*02:02:01-02:02:03, 02:02:06-02:02:11, 02:02:13-02:02:29, 02:02:31-02:02:39, 02:02:41-02:02:66, 02:02:68-02:03, 02:04 ^w , 02:05:01-02:11, 02:13, 02:14:01 ^w -02:14:02 ^w , 02:15-02:25Q, 02:26:02-02:26:03, 02:28-02:40:02, 02:42-02:86, 02:88-02:106, 02:108-02:114, 02:116-02:125, 02:127-02:128, 02:130, 02:132-02:133, 02:135N-02:151, 02:153-02:163, 02:165N-02:166, 02:168-02:190, 02:192N-02:223N, 04:03:01:01-04:03:11, 04:06:01-04:06:03, 04:16, 04:80, 04:107, 04:147, 04:160:01-04:160:02, 04:171, 04:256, 04:286, 04:294, 04:299 ^w , 04:335, 04:337, 04:351:01-04:351:02, 04:357, 04:363, 04:381, 04:383, 04:393, 04:400, 04:402, 04:489, 04:506, 05:58:01, 05:58:03, 06:03:01, 06:132:01-06:132:02, 12:353, 15:02:01:01-15:02:20, 15:02:22-15:02:24, 15:02:26-15:05:07, 15:05:10, 15:05:13-15:05:14, 15:05:16-15:06:03, 15:08:01-15:09:02, 15:10:02-15:10:03, 15:11-15:13:02, 15:15-15:19, 15:22, 15:24, 15:26-15:35, 15:37-15:42, 15:44:01-15:60, 15:62, 15:64-15:106, 15:108-15:115N, 15:117-15:137, 15:139-15:143, 15:145N-15:157, 15:159-15:207, 15:209-15:241, 15:243Q, 15:244 ^w , 15:245-15:247N, 15:248 ^w , 15:249-15:260, 16:70, 16:121
10	245 bp	800 bp	*03:07:01:01-03:07:02, 03:10, 03:15, 03:29, 03:45, 03:115:01-03:115:02, 03:163, 03:268, 03:297, 03:450, 03:461	*02:02:01-02:02:03, 02:02:06-02:02:29, 02:02:31-02:02:39, 02:02:41-02:02:66, 02:02:68-02:03, 02:04 ^w , 02:05:01-02:13, 02:14:01 ^w -02:14:02 ^w , 02:15-02:25Q, 02:26:02-02:26:03, 02:28-02:40:02, 02:42-02:64, 02:66-02:86, 02:88-02:106, 02:108-02:114, 02:116-02:130, 02:132-02:133, 02:135N-02:151, 02:153-02:163, 02:165N-02:166, 02:168-02:186, 02:188-02:190, 02:192N-02:223N, 04:03:01:01-04:03:11, 04:06:01-04:06:03, 04:16, 04:80, 04:107, 04:147, 04:160:01-04:160:02, 04:171, 04:256, 04:286, 04:294, 04:299, 04:335, 04:337,



101.611-12 – including *Taq* polymerase
101.611-12u – without *Taq* polymerase

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				04:351:01-04:351:02, 04:357, 04:363, 04:381, 04:393, 04:400, 04:402, 04:489, 04:506, 05:58:01, 05:58:03, 06:03:01, 06:132:01-06:132:02, 12:353, 15:02:01:01-15:02:20, 15:02:22-15:02:24, 15:02:26-15:05:07, 15:05:10-15:05:14, 15:05:16-15:06:03, 15:08:01-15:09:02, 15:10:02-15:10:03, 15:11-15:13:02, 15:15-15:19, 15:21-15:22, 15:24, 15:26-15:35, 15:37-15:42, 15:44:01-15:60, 15:62, 15:64-15:84Q, 15:86-15:106, 15:108-15:137, 15:139-15:143, 15:145N-15:157, 15:159-15:180, 15:182-15:207, 15:209-15:241, 15:243Q-15:260, 16:70, 16:121
11	145 bp 230 bp 415 bp	1070 bp	*03:87:01-03:87:02, 03:414 *03:126, 03:385 *03:08, 03:29, 03:31, 03:246, 03:555	*05:86, 05:201 *01:118, 01:128, 01:195, 04:112, 04:169, 05:36, 06:44, 06:252, 12:08, 12:81, 12:188, 12:287, 14:73, 15:205, 16:64, 16:70, 16:87
12⁴	110 bp 140 bp 260 bp 305 bp 590 bp	1070 bp	*03:265N *03:214 *03:03:12, 03:03:15, 03:11:01, 03:18:01, 03:18:03, 03:39, 03:308 *03:03:29, 03:04:19, 03:113:01	B*44:198N *01:51, 05:55, 06:53:01, 07:56:01, 07:60, 07:79, 07:109:01, 12:58, 12:252, 15:12, 15:144, 17:26 *07:10, 07:43:01-07:43:02, 07:184, 07:196, 07:367, 07:568, 15:02:33:01-15:02:33:02, B*35:01:38, B*35:03:15, B*35:08:04, B*35:15:02, B*37:04:02, B*57:01:18, B*57:03:04, B*58:01:17 *05:180N, 07:104N, 07:702N, 08:208N, 12:46N
13⁴	80 bp	1070 bp	*03:02:01-03:02:27, 03:02:29-03:02:30, 03:15-03:16, 03:33, 03:36, 03:40:01, 03:40:03-03:40:04, 03:42:01, 03:43:01, 03:60, 03:71, 03:84, 03:89, 03:95, 03:108, 03:110, 03:119:02, 03:121N, 03:132, 03:139, 03:146, 03:169Q, 03:175, 03:194, 03:197-03:201N, 03:216, 03:221-03:222, 03:224N-03:226, 03:238, 03:240, 03:245, 03:248, 03:258, 03:264, 03:271, 03:279, 03:298-03:301, 03:315, 03:329-03:330, 03:332, 03:338, 03:349-03:350, 03:365, 03:371, 03:373, 03:391N, 03:402-03:403, 03:406, 03:411, 03:425,	*01:97, 02:02:38, 02:02:53, 04:54:01, 04:313:01:01-04:313:01:02, 04:367, 04:381, 05:215, 06:02:08, 07:02:32, 07:17:03, 07:141:03, 07:242, 12:02:19, 12:03:20, 12:85:02, 14:02:01:01-14:02:01:31, 14:02:03-14:02:20, 14:02:22-14:02:36, 14:02:38-14:03:04, 14:04-14:16, 14:18-14:24:01, 14:25, 14:27-14:53, 14:56-14:78, 14:80-14:81, 14:83-14:91, 14:93N-14:154, 15:77, 16:01:06, B*15:78:03, B*15:524



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	140 bp		03:429, 03:431, 03:449N, 03:452, 03:468, 03:473, 03:475, 03:489, 03:497, 03:505, 03:536, 03:544, 03:547, 03:549, 03:561, 03:575Q, 03:584, 03:589, 03:596, 03:610, 03:612-03:615, 03:618N- 03:619N, 03:623, 03:625N- 03:626, 03:637:01-03:638 *03:17:01-03:17:02, 03:71, 03:249, 03:271, 03:302	*01:02:68, 01:02:71, 01:97, 04:37, 04:230, 04:263, 06:02:08, 06:34:02, 12:03:20, 14:02:01:01- 14:02:01:31, 14:02:03-14:02:20, 14:02:22-14:02:36, 14:02:38- 14:03:04, 14:04-14:07N, 14:10- 14:16, 14:18-14:27, 14:29- 14:53, 14:55-14:81, 14:83- 14:91, 14:93N-14:149, 14:151- 14:154, 16:01:06
14^{4,5}	70 bp	1070 bp	*03:02:10, 03:03:21, 03:04:26, 03:610	*02:02:67, 02:26:01, 02:164, 05:58:02, 05:58:04, 05:281, 06:70:01, 06:305, 07:20:01- 07:20:02, 07:127:02, 07:390, 07:562, 08:105, 08:239, 12:140:01, 12:239, 15:02:25, 15:05:15, 15:23:01, 15:138, B*15:315, B*44:85:01-44:85:02, B*50:56, B*51:226, B*55:30 B*56:37^w
15⁶	210 bp 135 bp	1070 bp	*03:19, 03:102, 03:307 *03:02:01-03:02:09, 03:02:11- 03:03:20, 03:03:22-03:03:50, 03:03:52-03:03:63, 03:03:65- 03:04:24, 03:04:27-03:11:02, 03:13:01:01-03:17:02, 03:18:02- 03:38:02, 03:40:01-03:64:01, 03:65-03:66, 03:67 ^w , 03:68-03:98, 03:100-03:117, 03:119:01- 03:136, 03:138-03:143, 03:146- 03:155, 03:157-03:165:02, 03:167-03:169Q, 03:171, 03:173- 03:181, 03:183-03:194, 03:196- 03:230, 03:232-03:247, 03:249- 03:263:03, 03:265N-03:277N, 03:278 ^w , 03:279-03:294, 03:295 ^w , 03:296:01-03:323N, 03:325- 03:341, 03:343, 03:345-03:453, 03:455-03:458, 03:460-03:478, 03:480:01-03:503, 03:505- 03:529, 03:531N-03:556, 03:558- 03:565, 03:566 ^w , 03:567-03:600, 03:602-03:609, 03:611-03:627, 03:629-03:633, 03:635N-03:640	*01:169:02, 02:02:13, 02:02:29, 04:03:09, 06:03:01 ^w , 06:132:01- 06:132:02, 07:96:01-07:96:02, 07:314:02, 07:578, 07:756, 15:02:10, 15:02:17, 15:43, B*46:77



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16⁴	120 bp 150 bp	1070 bp	*03:105 *03:07:01:01-03:07:02, 03:10, 03:15, 03:29, 03:45, 03:163, 03:226, 03:268, 03:297, 03:450, 03:461	*04:497, 08:147, 15:234 *01:14, 01:154, 02:02:13, 02:02:29, 04:01:23, 04:03:09, 04:07:02, 04:166:02, 05:01:12, 05:29:02, 06:02:01:01- 06:02:01:94, 06:02:03-06:02:71, 06:02:73-06:02:86, 06:02:88- 06:02:90, 06:02:92-06:04:02:02, 06:06:01:01-06:10, 06:12- 06:76:01, 06:77-06:81, 06:83- 06:146, 06:148-06:209:02, 06:211:01:01N-06:216, 06:218- 06:247, 06:249-06:251, 06:253- 06:310, 06:312-06:364, 07:07, 07:09, 07:76:01-07:76:02, 07:315, 07:328, 07:406, 07:559, 07:598, 07:656, 07:914, 12:04:01, 14:12, 14:49, 14:108, 15:02:10, 15:02:17, 15:99, 16:02:17, 17:01:01:02-17:01:03, 17:01:05-17:21, 17:23-17:71, 18:01:01:01-18:19, B*15:277, B*15:430, B*35:222, B*35:525, B*42:22
	250 bp		*03:218, 03:252	*01:179
17⁴	100 bp	1070 bp	*03:20N, 03:101, 03:470N	*04:403, 06:240, 07:694, 07:740, 08:210, B*07:425N, B*14:85N, B*44:306N
	135 bp		*03:05:01:01-03:05:01:03, 03:25, 03:27, 03:167, 03:296:01- 03:296:02, 03:335, 03:386, 03:407, 03:482, 03:494, 03:555	*04:443, B*15:524
18	165 bp	1070 bp	*03:102, 03:263:01-03:263:02, 03:514	B*15:96, B*35:537, B*44:274, B*56:37
	195 bp 220 bp		*03:83 *03:23N, 03:318N	
19⁴	105 bp 250 bp	800 bp	*03:24 *03:33, 03:115:01-03:115:02, 03:236, 03:438	*15:90 *02:114, 04:106, 08:78, 15:200
20⁷	160 bp	1070 bp	*03:25, 03:155	*01:218, 08:95, 16:170, B*08:249, B*35:252, B*39:114
	250 bp		*03:47, 03:227, 03:252	*01:179, 08:257, 12:126, B*07:324
21	455 bp		*03:227	*08:257, B*07:324
	210 bp 240 bp	1070 bp	*03:26:01-03:26:02 *03:57:01, 03:88, 03:410	
22⁷	200 bp	800 bp	*03:15, 03:27, 03:38:01-03:38:02, 03:69, 03:130, 03:136, 03:163, 03:237, 03:246, 03:274, 03:277N, 03:297, 03:431, 03:461	*02:12, 02:49, 02:55:01- 02:55:02, 02:115, 04:03:01:01- 04:03:01:04, 04:03:03-04:03:11, 04:06:01-04:06:03, 04:16, 04:80, 04:107, 04:147, 04:160:01- 04:160:02, 04:171, 04:190, 04:256, 04:286, 04:294, 04:335, 04:337, 04:351:01-04:351:02, 04:357, 04:363, 04:381, 04:383, 04:393, 04:400, 04:402, 04:473,



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				04:489, 04:506, 06:70:01-06:70:02, 06:132:01-06:132:02, 06:305, 07:20:01-07:20:02, 07:96:01-07:96:02, 07:127:01-07:127:02, 07:263, 07:390, 07:562, 07:578, 12:140:01-12:140:02, 12:239, 12:353, 15:03, 15:16:01-15:16:02, 15:25
23⁴	255 bp		*03:213	
	90 bp	1070 bp	*03:28, 03:49, 03:117, 03:549	*01:65, 04:201:02, 05:86, 05:201
	260 bp		*03:22Q, 03:90, 03:103, 03:153, 03:169Q, 03:391N	
24	200 bp	1070 bp	*03:30, 03:65, 03:79, 03:121N	B*44:441, B*44:544N, B*57:122N
25	305 bp	1070 bp	*03:32:01:01-03:32:01:02, 03:45, 03:136, 03:297	*04:80, 04:100, 04:110 ^w , 04:178, 04:370, 04:422, 06:143, 07:10, 07:43:01, 07:196, 07:568 ^w , 15:25, 15:62, 15:169, B*15:357, B*35:178, B*35:282, B*35:316, B*35:570
	355 bp		*03:38:02, 03:69, 03:130, 03:136, 03:163, 03:246, 03:274, 03:297, 03:461	*04:80, 04:100, 04:110 ^w , 04:178, 04:370, 04:422, 06:143, 07:10, 07:43:01, 07:196, 07:367, 07:568 ^w , 12:44, 12:309, 15:03, 15:16:01-15:16:02, 15:25, B*35:570
26^{4,6}	70 bp	1070 bp	*03:34, 03:142, 03:261, 03:272, 03:386	
	105 bp		*03:36, 03:77, 03:187, 03:296:01-03:296:02, 03:609	*04:212, B*35:537, B*44:274
	255 bp		*03:13:01:01-03:13:02, 03:35:01-03:35:02:02, 03:125, 03:176, 03:178, 03:198, 03:267, 03:292, 03:474, 03:608	*04:201:02, 04:212, 05:86, 05:201, 07:133:01, 07:242, 07:330:01, 07:748, B*15:96
27⁴	80 bp	1070 bp	*03:11:01-03:11:02, 03:18:02-03:18:03, 03:37:01-03:37:02, 03:64:01, 03:301, 03:529, 03:626	*01:169:02, 02:08:01:01-02:08:01:02, 02:42, 02:189, 04:256, 06:03:01, 07:314:02, 07:756, 08:01:35, 12:02:17, 12:03:23, 15:10:02-15:10:03, 15:113, 15:203, B*15:125:02, B*58:74
	210 bp 275 bp		*03:208N, 03:323N *03:15, 03:32:01:01-03:32:01:02, 03:45, 03:60, 03:136, 03:297	*02:49, 02:75, 02:115, 04:03:01:01-04:03:11, 04:06:01-04:06:03, 04:16, 04:80, 04:147, 04:160:01-04:160:02, 04:171, 04:256, 04:286, 04:294, 04:299, 04:335, 04:337, 04:351:01-04:351:02, 04:357, 04:363, 04:381, 04:383, 04:393, 04:400, 04:402, 04:473, 04:489, 04:506, 06:03:01, 06:132:01-06:132:02, 07:96:01-07:96:02, 07:314:02, 07:578, 07:756, 15:25, 15:62, 15:169



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28^{4,7}	90 bp 165 bp	1070 bp	*03:258 *03:16, 03:41:01-03:41:02, 03:113:01-03:113:02, 03:147, 03:151, 03:293, 03:384, 03:512, 03:535:01:01-03:536, 03:540, 03:590	*04:401 *01:02:68, 01:02:71, 01:97, 02:02:38, 02:02:53, 02:197, 04:01:01:01-04:01:01:29, 04:01:01:31-04:01:04, 04:01:06, 04:01:08, 04:01:10-04:01:17, 04:01:19-04:01:21, 04:01:23- 04:01:25, 04:01:27-04:01:67, 04:01:69-04:01:126, 04:01:128- 04:01:148, 04:01:150-04:01:153, 04:03:01:01-04:04:01:02, 04:05- 04:20, 04:23-04:49, 04:51- 04:54:01, 04:55-04:63, 04:65:01:01-04:76, 04:78- 04:94:01, 04:95N-04:98:02, 04:100-04:119, 04:121-04:155, 04:157-04:159, 04:160:02- 04:174, 04:176-04:177, 04:179, 04:180:02-04:200, 04:202:01- 04:211, 04:213-04:222, 04:223:02-04:233N, 04:235- 04:250, 04:252-04:261, 04:263- 04:313:01:02, 04:315-04:359, 04:361-04:386, 04:388-04:419, 04:421, 04:423-04:476, 04:478- 04:489, 04:491-04:495, 04:497- 04:507, 06:02:08, 06:34:02, 07:02:32, 07:17:03, 07:141:03, 07:857, 12:02:19, 12:03:20, 12:85:02, 12:233, 14:02:01:01- 14:02:01:31, 14:02:03-14:02:10, 14:02:12-14:02:29, 14:02:31- 14:02:36, 14:02:38-14:02:40, 14:02:42-14:16, 14:18-14:31, 14:33-14:43, 14:45-14:67, 14:69-14:81, 14:83-14:91, 14:93N-14:131, 14:133-14:154, 15:77, 16:01:06, 18:01:01:01- 18:19, A*03:01:110, A*11:01:124, B*13:13:02, B*14:02:30, B*15:01:17, B*15:78:03, B*15:524, B*35:578
29	140 bp 170 bp 285 bp	1070 bp	*03:98 *03:51, 03:96:01, 03:161, 03:165:01, 03:194 *03:39, 03:67	*04:64:01 *06:53:01, 07:56:01, 07:60, 07:79, 07:109:01, B*08:39
30⁶	150 bp 175 bp	1070 bp	*03:61 *03:46, 03:96:01, 03:194, 03:221, 03:328	*04:64:01
31⁴	100 bp 210 bp 555 bp	800 bp	*03:59, 03:123 *03:44, 03:494 *03:58, 03:86, 03:94, 03:209, 03:302	*01:168-01:169:02, 05:85, 05:107, 05:241, 12:178, 15:37, 15:102, 16:18, B*46:84, B*54:38



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32^{4,7}	90 bp	1070 bp	*03:58, 03:189N	*01:03:01-01:03:03, 01:24, 01:78, 01:146:01-01:146:02, 04:37, 05:85, 05:241, 07:364
	185 bp		*03:48, 03:84, 03:174, 03:281, 03:365	
33⁴	110 bp	1070 bp	*03:62	*04:411N, 07:586 ^w , 07:790 ^w , 07:961 ^w B*07:93, B*08:39 *07:60, 07:79, 12:58, 12:252, 14:10, 14:46:02, B*18:157:01:01-18:157:01:02, B*35:101:02
	180 bp		*03:224N	
	310 bp		*03:167, 03:346	
	365 bp		*03:43:01-03:43:02, 03:119:01- 03:119:02, 03:132, 03:175, 03:271, 03:609	
34	130 bp	1070 bp	*03:54, 03:98	*12:17, A*68:226 B*44:208, B*57:142N^w
	195 bp		*03:192	
35^{4,6}	240 bp		*03:53, 03:580	*15:253Q
	140 bp	1070 bp	*03:56, 03:214, 03:229N	
	200 bp		*03:79	
	250 bp		*03:244Q	
36	160 bp	1070 bp	*03:122, 03:206, 03:212, 03:219	*01:159, 02:207, 04:84, 06:288, 07:167, 07:585, 08:128, 12:339, 16:155, 16:198
37	240 bp		*03:50, 03:72	*01:02:68, 01:02:71, 01:97, 02:197, 04:01:01:01- 04:01:01:29, 04:01:01:31- 04:01:04, 04:01:08, 04:01:10- 04:01:21, 04:01:23-04:01:25, 04:01:27-04:01:148, 04:01:150, 04:01:152-04:01:153, 04:03:01:01-04:04:01:02, 04:05- 04:07:02, 04:09N-04:20, 04:23- 04:31, 04:33, 04:35:01-04:49, 04:51-04:54:01, 04:55-04:58, 04:60-04:76, 04:78-04:84, 04:86-04:94:01, 04:95N- 04:98:02, 04:100-04:146, 04:148-04:159, 04:160:02- 04:174, 04:176, 04:179, 04:180:02-04:211, 04:213- 04:222, 04:223:02-04:233N, 04:235-04:250, 04:252-04:264, 04:266-04:313:01:02, 04:315- 04:337, 04:339:01-04:359, 04:361-04:381, 04:383-04:386, 04:388-04:412, 04:414-04:419, 04:421, 04:423-04:427, 04:429- 04:446, 04:448-04:475, 04:478- 04:495, 04:497-04:507, 05:01:69, 05:18:05, 05:148, 05:215, 06:02:08, 06:34:02, 07:02:32, 07:17:03, 07:141:03, 07:857, 07:953, 08:01:07, 08:02:07, 08:33:02, 12:02:19, 12:03:20, 12:85:02, 12:233, 14:02:01:01-14:02:01:31,
	140 bp	1070 bp	*03:16, 03:21, 03:55, 03:80:01- 03:80:02, 03:92, 03:113:01- 03:113:02, 03:117, 03:161, 03:251, 03:293, 03:512, 03:535:01:01-03:535:01:02, 03:540, 03:590	



101.611-12 – including *Taq* polymerase
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Lot-specific information

				14:02:03-14:02:11, 14:02:13-14:02:36, 14:02:38-14:16, 14:18-14:19, 14:21N-14:24:02, 14:26-14:31, 14:33-14:37, 14:39-14:81, 14:83-14:91, 14:93N-14:131, 14:133-14:138, 14:140-14:153, 16:01:06, 18:01:01:01-18:02:05, 18:04-18:07N, 18:09-18:19, A*03:01:110, B*14:02:30, B*35:578
38^{4,7}	70 bp 105 bp	1070 bp	*03:184:01-03:184:02 *03:52, 03:95, 03:305	*04:43, 04:143, 04:171, 14:107, 14:144
39⁴	110 bp 160 bp 195 bp	1070 bp	*03:36, 03:77, 03:187, 03:296:01-03:296:02 *03:63, 03:145 *03:174, 03:365	*04:34, 04:122, 04:212, 04:265, 14:53, B*13:13:02, B*40:01:49-40:01:50
40^{4,7}	70 bp 230 bp 260 bp	1070 bp	*03:80:01 *03:126, 03:385 *03:66	*04:201:01, 06:192, 07:133:02, 07:330:02, 15:171, A*24:449, A*68:118, B*08:115 *01:202
41^{4,5}	120 bp 195 bp 295 bp 345 bp	1070 bp	*03:68 *03:100 *03:205 *03:380N	*01:155, 05:243 *04:161 ^w , 07:841 *05:279
42^{4,7}	120 bp 165 bp 195 bp	1070 bp	*03:78 *03:201N *03:192	
43⁶	230 bp	800 bp	*03:74, 03:81, 03:137, 03:175, 03:199, 03:223, 03:245, 03:317, 03:388 *03:97, 03:153, 03:391N	*15:218, B*07:310, B*15:96, B*35:537, B*39:103, B*56:37
44⁴	270 bp 70 bp 160 bp 250 bp	1070 bp	*03:91:01 *03:75, 03:120, 03:229N, 03:465 *03:244Q	B*57:142N^w *15:253Q
45	150 bp 255 bp 295 bp	1070 bp	*03:93, 03:206, 03:212 *03:213 *03:76	*01:159, 02:207, 04:84, 06:288, 07:167, 07:585, 08:128, 12:339, 16:155, 16:198
46	150 bp 210 bp	1070 bp	*03:155 *03:58, 03:86, 03:94	*01:218, 08:95, 16:170, B*08:249, B*35:252, B*39:114 *01:02:01:01-01:02:31, 01:02:33-01:02:77, 01:02:79-01:02:87, 01:02:89-01:03:03, 01:06-01:07:01, 01:08, 01:10-01:11, 01:13-01:20, 01:23-01:33, 01:38-01:48, 01:51-01:54, 01:56N-01:76, 01:78, 01:80-01:90, 01:92-01:96, 01:98N-01:100, 01:103-01:113, 01:115-01:119, 01:121Q-01:130, 01:132-01:157, 01:159,



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				01:161-01:175, 01:177-01:192, 01:194-01:204, 01:206-01:211N, 01:213-01:214, 01:216-01:225, 01:227-01:243, 01:245-01:247, 01:249-01:253, 04:37, 05:85, 05:107, 05:241, 06:204, 14:45, 15:102
47⁴	70 bp	1070 bp	*03:14, 03:21, 03:55, 03:80:02, 03:92, 03:117, 03:161, 03:361	*01:65, 04:201:02, 05:86, 05:201, 07:133:01, 07:330:01, 15:218
	195 bp		*03:109	
	240 bp		*03:57:01, 03:125, 03:176	
48	240 bp	1070 bp	*03:57:01-03:57:02	
49	180 bp	1070 bp	*03:146, 03:294	*01:180, 02:83, 02:150N, 04:328:01, 05:01:36, 05:224, 05:243, 06:02:03, 06:46N, 06:327, 07:02:82, 07:02:116, 07:18:05, 07:796N, 07:934N, 08:01:09, 08:02:24, 08:02:31, 08:24, 12:172, 12:234, 12:295N, 12:323, 15:02:30, 15:04:03, 15:213N, 15:251, 16:90, 16:180, 17:01:01:02-17:01:01:28, 17:01:12-17:03:03, 17:04-17:05, 17:16:02-17:17, 17:21, 17:30, 17:35:02, 17:37-17:44, 17:46- 17:66, 17:68-17:71
50	215 bp	1070 bp	*03:250, 03:267, 03:318N, 03:382, 03:559	*04:201:02, 04:212, 05:86, 05:201
51⁴	120 bp	1070 bp	*03:105	*04:497, 08:147, 15:234
	235 bp		*03:303	
52⁶	225 bp	1070 bp	*03:311, 03:323N, 03:377N	
53	240 bp	1070 bp	*03:106	*15:151
	315 bp		*03:312	*12:303
	345 bp		*03:380N	*05:279
54⁴	95 bp	1070 bp	*03:316N	
55	260 bp	1070 bp	*03:207	
	470 bp		*03:211:02	*05:03
56	160 bp	1070 bp	*03:145, 03:363N	
	265 bp		*03:73	
57	470 bp	1070 bp	*03:171, 03:211:01	*01:200, 02:170, 04:144, 05:93, 06:73, 08:20, 08:40, 12:109, 15:221
58⁴	85 bp	1070 bp	*03:02:01-03:11:02, 03:13:01:01- 03:98, 03:100-03:529, 03:531N- 03:562, 03:564-03:640	*04:01:01:01-04:01:01:29, 04:01:01:31-04:01:151, 04:01:153, 04:03:01:01-04:20, 04:23-04:225N, 04:227- 04:305N, 04:307-04:396N, 04:398-04:431, 04:433-04:507, 06:228, 15:43, 16:150, 17:02, 17:06 ² -17:07 ² , 17:09 ² -17:16:01 ² , 17:18 ² -17:20 ² , 17:22 ² -17:29 ² , 17:31 ² , 17:33 ² -17:35:01 ² , 17:36 ² , 17:45 ² , B*44:515



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59⁶	165 bp	1070 bp	*03:120, 03:184:01-03:184:02, 03:200, 03:229N	B*57:142N^w, B*58:116
60⁴	70 bp	1070 bp	*03:18:02-03:18:03, 03:64:01, 03:301	*02:08:01:01-02:08:01:02, 02:189, 08:01:35, 12:02:17, 12:03:23, 15:10:02-15:10:03, B*15:01:72, B*15:125:02, B*46:01:33, B*56:01:09, B*58:74
	215 bp		*03:04:101, 03:82, 03:85, 03:371, 03:585	*02:02:68, 02:129, 15:256N
61	205 bp	1070 bp	*03:366N	
62	200 bp	1070 bp	*03:70, 03:127, 03:179, 03:274, 03:277N	*02:131, B*07:234, B*15:315, B*18:126, B*39:138, B*50:56, B*55:30
63⁸	-	-	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-C*03 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 7, 14 and 41 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C*03 primer mixes.

⁶Primer mixes 15, 26, 30, 35, 43, 52 and 59 have a tendency to giving rise to primer oligomer formation.

⁷Primer mixes 20, 22, 28, 32, 38, 40 and 42 may have tendencies of unspecific amplifications.

⁸Primer mix 63 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 information not available for the primer matching sequence.



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PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	280	210	280	275	275	90	110	255	240	245	145	110
						215	185				230	140
											415	260
												305
												590
Length of int. pos. control ¹	800	1070	800	1070	1070	800	1070	1070	1070	800	1070	1070
5'-primer(s) ²	105	419	105	355	355	413	201	374	105	105	28	126
	5'-gCT 3'	5'-gTC 3'	5'-gCT 3'	5'-TCA 3'	5'-CCC 3'	5'-TgT 3'	5'-CCg 3'	5'-CTA 3'	5'-gCT 3'	5'-gCT 3'	5'-TCA 3'	5'-ggA 3'
		419				539	201	379			485	355
		5'-ATC 3'				5'-gTg 3'	5'-CCg 3'	5'-ACC 3'			5'-CAA 3'	5'-TCA 3'
								379				
								5'-ACT 3'				
3'-primer(s) ³	343	589	343	589	589	589	270	589	302	307	85	343
	5'-C 3'	5'-CTT 3'	5'-T 3'	5'-CTT 3'	5'-CTT 3'	5'-CTT 3'	5'-TAg 3'	5'-CTT 3'	5'-ggT 3'	5'-CCA 3'	5'-CAg 3'	5'-T 3'
				589			343			312	270	426
				5'-CTT 3'			5'-T 3'			5'-AgT 3'	5'-TAg 3'	5'-TCC 3'
										312	589	452
										5'-AgT 3'	5'-CTT 3'	5'-Cgg 3'
												618
												5'-CT 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	80	70	135	120	100	165	105	160	210	200	90	200
	140	210		150	135	195	250	250	240	255	260	
				250		220		455				
Length of int. pos. control ¹	1070	1070	1070	1070	1070	1070	800	1070	1070	800	1070	1070
5'-primer(s) ²	361	105	105	201	19	406	105	19	391	134	367	355
	5'-AgT 3'	5'-gCC 3'	5'-gCT 3'	5'-CCg 3'	5'-CCT 3'	5'-gCA 3'	5'-gCT 3'	5'-CCg 3'	5'-ACA 3'	5'-CCA 3'	5'-TgC 3'	5'-TCA 3'
	419	420		637	363	420	3 rd I	86	395	134	368	355
	5'-gTC 3'	5'-TTA 3'		5'-ACA 3'	5'-AgC 3'	5'-TAA 3'	5'-Cgg 3'	5'-CAA 3'	5'-gCA 3'	5'-CCA 3'	5'-gTC 3'	5'-TCC 3'
	419			637	3 rd I	436		194	420	3 rd I	374	
	5'-ATC 3'			5'-ACT 3'	5'-Cgg 3'	5'-AgA 3'		5'-CgT 3'	5'-TTC 3'	5'-Cgg 3'	5'-CTA 3'	
				730		463		467			539	
				5'-ggA 3'		5'-TgA 3'		5'-CTT 3'			5'-gCg 3'	
				766				637				
				5'-TgA 3'				5'-ACA 3'				
3'-primer(s) ³	459	134	201	312	70	589	167	97	589	289	589	513
	5'-AgA 3'	5'-AgT 3'	5'-CTC 3'	5'-AgT 3'	5'-ggC 3'	5'-CTT 3'	5'-ACC 3'	5'-gTA 3'	5'-CTT 3'	5'-AgC 3'	5'-CTT 3'	5'-TCT 3'
		589		846	459		307	302		289		514
		5'-CTT 3'		5'-CAC 3'	5'-AgA 3'		5'-CCA 3'	5'-ggC 3'		5'-AgC 3'		5'-CTT 3'
					662		323	589		295		515
					5'-CAC 3'		5'-AgC 3'	5'-CTT 3'		5'-TCA 3'		5'-CCC 3'
							787	846		749		
							5'-TCT 3'	5'-CAC 3'		5'-CCg 3'		
										806		
										5'-CTA 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.	305	70	80	90	140	150	100	90	110	130	140	160
PCR product	355	105	210	165	170	175	210	185	180	195	200	240
		255	275		285		555		310	240	250	
									365			
Length of int.	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer(s) ²	289	363	105	459	97	105	98	105	343	98	355	133
	5'-Agg 3'	5'-Agg 3'	5'-gCT 3'	5'-gAT 3'	5'-TCg 3'	5'-gCT 3'	5'-CTA 3'	5'-gCT 3'	5'-CCA 3'	5'-CTA 3'	5'-TCA 3'	5'-CCT 3'
	341	385			459	459	421	368	3 rd I	459		394
	5'-ggA 3'	5'-ggT 3'			5'-gAT 3'	5'-gAT 3'	5'-ACC 3'	5'-gTg 3'	5'-Cgg 3'	5'-gAT 3'		5'-ggg 3'
		527					530					464
		5'-TgT 3'					5'-ggT 3'					5'-gCC 3'
		560										3 rd I
		5'-CgA 3'										5'-Cgg 3'
3'-primer(s) ³	353	589	134	506	343	231	361	153	363	295	434	343
	5'-TgA 3'	5'-CTT 3'	5'-AgC 3'	5'-Tgg 3'	5'-T 3'	5'-C 3'	5'-CCA 3'	5'-ACC 3'	5'-ATg 3'	5'-TCC 3'	5'-CCA 3'	5'-T 3'
			142	578	559	235	589	242	419	544	452	589
			5'-TgA 3'	5'-TgA 3'	5'-Cgg 3'	5'-CTT 3'	5'-CTT 3'	5'-CCA 3'	5'-Cgg 3'	5'-ggg 3'	5'-Cgg 3'	5'-CTT 3'
			273	589	583	566		242	662	559	470	704
			5'-TTT 3'	5'-CTC 3'	5'-gTg 3'	5'-CCT 3'		5'-CCT 3'	5'-CAg 3'	5'-Cgg 3'	5'-TCT 3'	5'-CCA 3'
			280	589	594	595		257	728	613	515	719
			5'-CTA 3'	5'-CTC 3'	5'-CCC 3'	5'-CCT 3'		5'-CCT 3'	5'-CCT 3'	5'-gCT 3'	5'-CCC 3'	5'-AgA 3'
			341		595			419			563	
			5'-CgT 3'		5'-CCT 3'			5'-CgA 3'			5'-CgA 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.	140	70	110	70	120	120	230	70	150	150	70	240
PCR product		105	160	230	195	165	270	160	255	210	195	
			195	260	295	195		250	295		240	
					345							
Length of int.	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer(s) ²	459	459	105	28	265	459	104	355	91	194	385	391
	5'-gAT 3'	5'-gAT 3'	5'-gCT 3'	5'-TCA 3'	5'-CgA 3'	5'-gAT 3'	5'-CTT 3'	5'-TCA 3'	5'-ggC 3'	5'-CgT 3'	5'-ggT 3'	5'-ACA 3'
			459	560	3 rd I		116		490	368	391	391
			5'-gAT 3'	5'-CAC 3'	5'-Cgg 3'		5'-gCT 3'		5'-CgA 3'	5'-gTg 3'	5'-ACA 3'	5'-ACC 3'
							355		3 rd I		434	
							5'-TCT 3'		5'-Cgg 3'		5'-CAg 3'	
							367				560	
							5'-TgC 3'				5'-CAC 3'	
							409					
							5'-ggC 3'					
3'-primer(s) ³	559	487	221	85	343	538	302	382	343	302	589	589
	5'-CgT 3'	5'-CgT 3'	5'-ACA 3'	5'-CAg 3'	5'-T 3'	5'-CAT 3'	5'-ggC 3'	5'-CCT 3'	5'-T 3'	5'-ggC 3'	5'-CTT 3'	5'-CTT 3'
		518	233	118	746	585	589	470	589	538		
		5'-CCA 3'	5'-CCA 3'	5'-gCA 3'	5'-gAA 3'	5'-AgC 3'	5'-CTT 3'	5'-TCT 3'	5'-CTT 3'	5'-CCg 3'		
		523	257	589	845	613		473	704			
		5'-ACA 3'	5'-CCT 3'	5'-CTT 3'	5'-ACT 3'	5'-gCT 3'		5'-CgA 3'	5'-CCA 3'			
			527		895			476	806			
			5'-CCA 3'		5'-A 3'			5'-CgA 3'	5'-CTA 3'			
								563				
								5'-CgA 3'				
Well No.	37	38	39	40	41	42	43	44	45	46	47	48



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Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	180	215	120	225	240	95	260	160	470	85	165	70
PCR product			235		315		470	265				215
					345							
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer(s) ²	3 rd I	412	653	105	3 rd I	288	652	105	652	28	355	105
	5'-Cgg 3'	5'-ATA 3'	5'-CgC 3'	5'-gCT 3'	5'-Cgg 3'	5'-..g 3'	5'-CCA 3'	5'-gCT 3'	5'-CCA 3'	5'-TCA 3'	5'-TCA 3'	5'-gCT 3'
		420	766				863				355	
		5'-TAA 3'	5'-TgA 3'				5'-Cgg 3'				5'-TCC 3'	
3'-primer(s) ³	727	589	846	280	791	343	956	221	956	70	470	134
	5'-CCg 3'	5'-CTT 3'	5'-CAC 3'	5'-CTA 3'	5'-AgA 3'	5'-T 3'	5'-CAg 3'	5'-ACA 3'	5'-CAg 3'	5'-ggC 3'	5'-TCT 3'	5'-AgC 3'
				295	866			225			473	276
				5'-TCg 3'	5'-gCT 3'			5'-ACT 3'			5'-CgA 3'	5'-Cgg 3'
				299	895			328			487	282
				5'-TCC 3'	5'-A 3'			5'-gTC 3'			5'-CgT 3'	5'-gAC 3'
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62
Length of spec.	205	200
PCR product		
Length of int.	1070	1070
pos. control ¹		
5'-primer(s) ²	680	134
	5'-Tg 3'	5'-CCA 3'
3'-primer(s) ³	846	295
	5'-CAC 3'	5'-TCA 3'
		299
		5'-TCT 3'
Well No.	61	62

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

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

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



101.611-12 – including *Taq* polymerase
101.611-12u – without *Taq* polymerase

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Lot No.: **1S7**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-C*03 SSP subtyping kit ²																				
					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:	202353601	202353602	202353603	202353604	202353605	202353606	202353607	202353608	202353609	202353610	202353611	202353612	202353613	202353614	202353615	202353616
	IHCW cell line ¹		C*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*07:01	*15:05	+	-	-	-	-	-	+	-	+	+	-	-	-	-	-	-
3	9011	E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*03:04	*04:01	+	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
5	9009	KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
6	9353	SM	*03:04	*07:02	+	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
7	9020	QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
13	9004	JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*01:02	*03:04	+	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
15	9075	DKB	*03:04		+	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
16	9037	SWEG007	*02:02		+	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-
17	9282	CTM3953540	*03:03	*07:01	-	-	+	+	-	-	+	-	-	-	-	-	-	-	+	-
18	9257	32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*07:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*03:04		+	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
21	9064	AMALA	*03:03		-	-	+	+	-	-	+	-	-	-	-	-	-	-	+	-
22	9056	KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*01:02	*15:02	+	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-
24	9035	JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*07:18		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:29	+	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-
28	9320	BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019	DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
33	9098	MT14B	*03:04		+	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
34	9104	DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*03:03	*04:01	-	-	+	+	-	-	+	-	-	-	-	-	-	-	+	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*03:03		-	-	+	+	-	-	+	-	-	-	-	-	-	-	+	-
39	9315	CML	*02:02	*07:01	+	-	-	-	-	-	+	-	+	+	-	-	-	-	-	-
40	9134	WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
41	9055	H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*07:04	*15:02	+	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Lot-specific information

CELL LINE VALIDATION SHEET																																
HLA-C*03 SSP subtyping kit ²																																
					Well																											
						17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32											
				Prod. No.:		202353617	202353618	202353619	202353620	202353621	202353622	202353623	202353624	202353625	202353626	202353627	202353628	202353629	202353630	202353631	202353632											
	IHWC cell line ¹		C*																													
1	9001	SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
2	9280	LK707	*07:01	*15:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
3	9011	E4181324	*12:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
4	9275	GU373	*03:04	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
5	9009	KAS011	*06:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
6	9353	SM	*03:04	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
7	9020	QBL	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
8	9025	DEU	*04:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
9	9026	YAR	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
10	9107	LKT3	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
11	9051	PITOUT	*16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
12	9052	DBB	*06:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
13	9004	JESTHOM	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
14	9071	OLGA	*01:02	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
15	9075	DKB	*03:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
16	9037	SWEIG007	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
17	9282	CTM3953540	*03:03	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
18	9257	32367	*01:02	*07:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
19	9038	BM16	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
20	9059	SLE005	*03:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
21	9064	AMALA	*03:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
22	9056	KOSE	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
23	9124	IHL	*01:02	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
24	9035	JBUSH	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
25	9049	IBW9	*08:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
26	9285	WT49	*07:18			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
27	9191	CH1007	*07:04	*15:29		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
28	9320	BEL5GB	*05:01	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
29	9050	MOU	*16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
30	9021	RSH	*17:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
31	9019	DUCAF	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
32	9297	HAG	*17:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
33	9098	MT14B	*03:04			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
34	9104	DHIF	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
35	9302	SSTO	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
36	9024	KT17	*03:03	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											
37	9065	HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
38	9099	LZL	*03:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
39	9315	CML	*02:02	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
40	9134	WHONP199	*01:02	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
41	9055	H0301	*08:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
42	9066	TAB089	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
43	9076	T7526	*01:02	*08:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
44	9057	TEM	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
45	9239	SHJO	*06:02	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
46	9013	SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
47	9045	TUBO	*07:04	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
48	9303	TER-ND	*04:01	*16:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-											



For *In Vitro* Diagnostic Use
MA124 v02 SSP PI Template
Date: October 2023, Rev. No: 00

101.611-12 – including *Taq* polymerase
101.611-12u – without *Taq* polymerase

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Lot No.: **1S7**

Lot-specific information

CELL LINE VALIDATION SHEET																								
HLA-C*03 SSP subtyping kit ²																								
					Well																			
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48				
				Prod. No.:	202353633	202353634	202353635	202353636	202353637	202353638	202353639	202353640	202353641	202353642	202353643	202353644	202353645	202353646	202353647	202353648				
	IHCW cell line ¹		C*																					
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2	9280	LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
3	9011	E4181324	*12:02		-	-	-		-	-	-	-	-	-	-	-	-	-	-	-				
4	9275	GU373	*03:04	*04:01	-	-	-		+	-	-	-	-	-	-	-	-	-	-	-				
5	9009	KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
6	9353	SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
7	9020	QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
8	9025	DEU	*04:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-				
9	9026	YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
10	9107	LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-				
11	9051	PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
12	9052	DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
13	9004	JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-				
14	9071	OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-				
15	9075	DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
16	9037	SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
17	9282	CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
18	9257	32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-				
19	9038	BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
20	9059	SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
21	9064	AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
22	9056	KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
23	9124	IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-				
24	9035	JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
25	9049	IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
26	9285	WT49	*07:18		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
27	9191	CH1007	*07:04	*15:29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
28	9320	BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
29	9050	MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
30	9021	RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
31	9019	DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
32	9297	HAG	*17:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
33	9098	MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
34	9104	DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
35	9302	SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
36	9024	KT17	*03:03	*04:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-				
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
38	9099	LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
39	9315	CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
40	9134	WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-				
41	9055	H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
42	9066	TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-				
43	9076	T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-				
44	9057	TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
45	9239	SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
47	9045	TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-				



101.611-12 – including *Taq* polymerase
101.611-12u – without *Taq* polymerase

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Lot No.: **1S7**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-C*03 SSP subtyping kit ²																			
						Well													
						49	50	51	52	53	54	55	56	57	58	59	60	61	62
					Prod. No.:	202353649	202353650	202353651	202353652	202353653	202353654	202353655	202353656	202353657	202353658	202353659	202353660	202353661	202353662
	IHWC cell line ¹		C*																
1	9001	SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*07:01	*15:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*12:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*03:04	*04:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-
5	9009	KAS011	*06:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*03:04	*07:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-
7	9020	QBL	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*04:01			-	-	-	-	-	-	-	-	-	+	-	-	-	-
9	9026	YAR	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*06:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*01:02	*03:04		-	-	-	-	-	-	-	-	-	+	-	-	-	-
15	9075	DKB	*03:04			-	-	-	-	-	-	-	-	-	+	-	-	-	-
16	9037	SWEIG007	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:03	*07:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-
18	9257	32367	*01:02	*07:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*07:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*03:04			-	-	-	-	-	-	-	-	-	+	-	-	-	-
21	9064	AMALA	*03:03			-	-	-	-	-	-	-	-	-	+	-	-	-	-
22	9056	KOSE	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*01:02	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*08:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*07:18			-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:29		-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*05:01	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*16:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*17:01			+	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*17:03			+	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*03:04			-	-	-	-	-	-	-	-	-	+	-	-	-	-
34	9104	DHIF	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*03:03	*04:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-
37	9065	HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*03:03			-	-	-	-	-	-	-	-	-	+	-	-	-	-
39	9315	CML	*02:02	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*01:02	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*08:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*01:02	*08:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*12:03			-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*06:02	*17:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*07:04	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*04:01	*16:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-



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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 8, 11, 17 to 21, 23 to 26, 29, 31 to 36, 38 to 45, 47, 48, 50 to 57 and 59 to 62 were available. The specificities of the primers in primer solutions 8, 11, 17 to 19, 21, 23, 25, 26, 29, 31 to 33, 36, 39, 41, 43, 45, 47, 50, 55, 60 and 62 were tested by separately adding one, two or three additional 5'-primers, and one, two or four additional 3'-primers accordingly. In primer solutions 20, 48, 51, 54, 57 and 61 it was only possible to test the 3'-primers, the 5'-primers were not possible to be tested. In primer solutions 24, 34, 35, 38, 40, 42, 44, 52, 53, 56 and 59 it was only possible to test the 5'-primers, the 3'-primers were not possible to be tested.

In primer solutions 2, 7, 8, 13, 16 to 18, 21, 23, 31, 36, 41, 43, 45 to 47, 50 and 55 one or more of the 5'-primers were not possible to be tested and in primer solutions 10 to 12, 17, 19, 22, 27 to 30, 32, 33, 36, 39, 41, 45, 60 and 62 one or more 3'-primers were not possible to be tested. In addition, one or more primers in primer solutions 6, 12, 14, 16, 22, 27, 30 and 46 were tested by separately adding 5'- and/or 3'-primers.



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Lot-specific information

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