101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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"Instructions for Use" (IFU)

Lot No.: 8G5

Lot-specific information

Olerup SSP® HLA-B*15

Product number:	**101.516-24/04 – including *Taq* pol.** **101.516-24u/04u – without *Taq* pol.**
Lot number:	**8G5**
Expiry date:	**2021-04-01**
Number of tests:	**24 tests – Product No. 101.516-24/24u** **4 tests – Product No. 101.516-04/04u**
Number of wells per test:	**95+1**
Storage - pre-aliquoted primers:	**dark at -20ºC**
- PCR Master Mix:	**-20ºC**

This Product Description is only valid for Lot No. 8G5.

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*15 LOT (3F7)

The HLA-B*15 kit is updated for new alleles to enable separation of:

- Null and Alternatively expressed alleles
- The product documentation has been updated for new alleles of IMGT 3.32.0

The format of the Worksheet has been changed.

The HLA-B*15 primer set, specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup* SSP® HLA-B*15 lot was made **(Lot No. 3F7)**.

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

Well	5'-primer	3'-primer	rationale
22	Added	-	5'-primer added for the B*15:01:40 allele.
27	Added	-	5'-primer added for the B*15:400N allele.
45	Added	-	5'-primer added for the B*15:01:40 allele.
84	Added	-	5'-primer added for the B*15:400N allele.

Lot No.: 8G5 **Lot-specific information**

Well **96** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP® HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

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

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

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

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5 **Lot-specific information**

PRODUCT DESCRIPTION

HLA-B*15 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*15:01 to B*15:445 alleles.

PLATE LAYOUT

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

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

The 96 well cut PCR plate is marked with 'HLA-B*15' in silver/gray ink.
Well No. 1 is marked with the Lot No. '8G5'.
Wells 1 to 95 – HLA-B*15 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*15 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*15 alleles, i.e. **B*15:01 to B*15:445**, recognized by the HLA Nomenclature Committee in April 2018[1,2] will be amplified by the primers in the HLA-B*15 subtyping kit[3].

The HLA-B*15 kit enables separation of the confirmed HLA-B*15 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-B*15 alleles is listed below.

The HLA-B*15 kit also enables identification of null and alternatively expressed alleles.

Lot No.: 8G5 **Lot-specific information**

The following HLA-B*15 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
B*15:81, 15:430	82	B*15:166, 15:193	86
B*15:82, 15:256	36	B*15:169, 15:225	87
B*15:92, 15:104	52	B*15:206, 15:343	50
B*15:120, 15:258N	93	B*15:208, 15:230	70
B*15:142, 15:147, 15:429	78	B*15:301, 15:302N	64
B*15:146, 15:147	75		

[1]HLA-B alleles listed on the IMGT/HLA web page 2018-April-16, release 3.32.0, www.ebi.ac.uk/imgt/hla.
[2]Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page http://hla.alleles.org/alleles/deleted.html.
[3]The B*15:180 and the B*46:71 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution kit and/or the HLA-B*46 high resolution kit.

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5 **Lot-specific information**

ALLELE CONFIRMATION STATUS

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
B*15:01:01:01	**Confirmed**	B*15:02:09	Unconfirmed	**B*15:18:01:01**	**Confirmed**	**B*15:54**	**Confirmed**
B*15:01:01:02N	**Confirmed**	B*15:02:10	Unconfirmed	B*15:18:01:02	Unconfirmed	**B*15:55**	**Confirmed**
B*15:01:01:03	Unconfirmed	B*15:02:11	Unconfirmed	**B*15:18:02**	**Confirmed**	**B*15:56**	**Confirmed**
B*15:01:01:04	**Confirmed**	**B*15:03:01:01**	**Confirmed**	**B*15:18:03**	**Confirmed**	B*15:57	Unconfirmed
B*15:01:01:05	**Confirmed**	**B*15:03:01:02**	**Confirmed**	**B*15:18:04**	**Confirmed**	**B*15:58**	**Confirmed**
B*15:01:02	**Confirmed**	**B*15:03:02**	**Confirmed**	B*15:18:05	Unconfirmed	B*15:60	Unconfirmed
B*15:01:03	Unconfirmed	**B*15:03:03**	**Confirmed**	B*15:18:06	Unconfirmed	**B*15:61**	**Confirmed**
B*15:01:04	Unconfirmed	**B*15:03:04**	**Confirmed**	**B*15:19**	**Confirmed**	**B*15:62**	**Confirmed**
B*15:01:06	**Confirmed**	**B*15:03:05**	**Confirmed**	**B*15:20**	**Confirmed**	**B*15:63**	**Confirmed**
B*15:01:07	Unconfirmed	B*15:03:06	Unconfirmed	**B*15:21**	**Confirmed**	**B*15:64:01**	**Confirmed**
B*15:01:08	Unconfirmed	**B*15:04:01:01**	**Confirmed**	**B*15:23**	**Confirmed**	**B*15:64:02**	**Confirmed**
B*15:01:09	**Confirmed**	B*15:04:01:02	Unconfirmed	**B*15:24:01**	**Confirmed**	B*15:65	Unconfirmed
B*15:01:10	**Confirmed**	**B*15:04:02**	**Confirmed**	B*15:24:02	Unconfirmed	B*15:66	Unconfirmed
B*15:01:11	**Confirmed**	B*15:04:03	Unconfirmed	**B*15:25:01**	**Confirmed**	**B*15:67**	**Confirmed**
B*15:01:12	Unconfirmed	**B*15:04:04**	**Confirmed**	**B*15:25:02**	**Confirmed**	**B*15:68**	**Confirmed**
B*15:01:13	**Confirmed**	**B*15:05:01**	**Confirmed**	B*15:25:03	Unconfirmed	**B*15:69**	**Confirmed**
B*15:01:14	**Confirmed**	**B*15:05:02**	**Confirmed**	**B*15:26N**	**Confirmed**	**B*15:70**	**Confirmed**
B*15:01:15	**Confirmed**	**B*15:06**	**Confirmed**	**B*15:27:01**	**Confirmed**	**B*15:71**	**Confirmed**
B*15:01:16	**Confirmed**	**B*15:07:01**	**Confirmed**	B*15:27:02	Unconfirmed	B*15:72	Unconfirmed
B*15:01:17	Unconfirmed	B*15:07:02	Unconfirmed	B*15:27:03	Unconfirmed	**B*15:73**	**Confirmed**
B*15:01:18	Unconfirmed	**B*15:07:03**	**Confirmed**	B*15:28	Unconfirmed	**B*15:74**	**Confirmed**
B*15:01:19	Unconfirmed	**B*15:08:01**	**Confirmed**	**B*15:29**	**Confirmed**	**B*15:75**	**Confirmed**
B*15:01:20	Unconfirmed	B*15:08:02	Unconfirmed	**B*15:30**	**Confirmed**	B*15:76	Unconfirmed
B*15:01:21	Unconfirmed	**B*15:09**	**Confirmed**	**B*15:31**	**Confirmed**	B*15:77	Unconfirmed
B*15:01:22	Unconfirmed	**B*15:10:01**	**Confirmed**	**B*15:32:01**	**Confirmed**	**B*15:78:01**	**Confirmed**
B*15:01:23	Unconfirmed	**B*15:10:02**	**Confirmed**	B*15:32:02	Unconfirmed	B*15:78:02	Unconfirmed
B*15:01:24	Unconfirmed	B*15:10:03	Unconfirmed	**B*15:33**	**Confirmed**	B*15:78:03	Unconfirmed
B*15:01:25	Unconfirmed	B*15:10:04	Unconfirmed	**B*15:34**	**Confirmed**	B*15:79N	Unconfirmed
B*15:01:26	Unconfirmed	**B*15:11:01**	**Confirmed**	**B*15:35**	**Confirmed**	B*15:80	Unconfirmed
B*15:01:27	Unconfirmed	**B*15:11:02**	**Confirmed**	B*15:36	Unconfirmed	B*15:81	Unconfirmed
B*15:01:28	Unconfirmed	B*15:11:03	Unconfirmed	**B*15:37**	**Confirmed**	B*15:82	Unconfirmed
B*15:01:29	Unconfirmed	B*15:11:04	Unconfirmed	**B*15:38:01**	**Confirmed**	B*15:83	Unconfirmed
B*15:01:30	Unconfirmed	B*15:11:05	Unconfirmed	**B*15:38:02**	**Confirmed**	B*15:84	Unconfirmed
B*15:01:31	**Confirmed**	B*15:11:06	Unconfirmed	**B*15:39:01**	**Confirmed**	B*15:85	Unconfirmed
B*15:01:32	Unconfirmed	B*15:11:07	Unconfirmed	B*15:39:02	Unconfirmed	**B*15:86**	**Confirmed**
B*15:01:33	Unconfirmed	**B*15:12**	**Confirmed**	**B*15:40:01**	**Confirmed**	B*15:87	Unconfirmed
B*15:01:34	Unconfirmed	**B*15:13:01**	**Confirmed**	B*15:40:02	Unconfirmed	B*15:88	Unconfirmed
B*15:01:35	Unconfirmed	B*15:13:02	Unconfirmed	**B*15:42**	**Confirmed**	**B*15:89**	**Confirmed**
B*15:01:36	**Confirmed**	**B*15:14**	**Confirmed**	B*15:43	Unconfirmed	B*15:90	Unconfirmed
B*15:01:37	Unconfirmed	**B*15:15**	**Confirmed**	B*15:44	Unconfirmed	B*15:91	Unconfirmed
B*15:01:38	Unconfirmed	**B*15:16:01:01**	**Confirmed**	**B*15:45**	**Confirmed**	B*15:92	Unconfirmed
B*15:01:39	Unconfirmed	**B*15:16:01:02**	**Confirmed**	**B*15:46**	**Confirmed**	B*15:93	Unconfirmed
B*15:02:01	**Confirmed**	**B*15:16:02**	**Confirmed**	**B*15:47:01**	**Confirmed**	B*15:94N	Unconfirmed
B*15:02:02	Unconfirmed	B*15:16:03	Unconfirmed	**B*15:47:02**	**Confirmed**	B*15:95	Unconfirmed
B*15:02:03	Unconfirmed	**B*15:17:01:01**	**Confirmed**	**B*15:48**	**Confirmed**	B*15:96	Unconfirmed
B*15:02:04	**Confirmed**	B*15:17:01:02	Unconfirmed	B*15:49	Unconfirmed	B*15:97	Unconfirmed
B*15:02:05	Unconfirmed	**B*15:17:02**	**Confirmed**	**B*15:50**	**Confirmed**	B*15:98	Unconfirmed
B*15:02:06	Unconfirmed	B*15:17:03	Unconfirmed	B*15:51	Unconfirmed	B*15:99	Unconfirmed
B*15:02:07	Unconfirmed	B*15:17:04	Unconfirmed	**B*15:52**	**Confirmed**	B*15:101	Unconfirmed
B*15:02:08	Unconfirmed	B*15:17:05	Unconfirmed	**B*15:53**	**Confirmed**	B*15:102	Unconfirmed

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5 **Lot-specific information**

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
B*15:103	Unconfirmed	**B*15:154**	**Confirmed**	B*15:202	Unconfirmed	B*15:251	Unconfirmed
B*15:104	Unconfirmed	**B*15:155**	**Confirmed**	B*15:203	Unconfirmed	B*15:252	Unconfirmed
B*15:105	Unconfirmed	B*15:156	Unconfirmed	**B*15:204**	**Confirmed**	B*15:253	Unconfirmed
B*15:106	**Confirmed**	**B*15:157**	**Confirmed**	B*15:205	Unconfirmed	B*15:254	Unconfirmed
B*15:107	Unconfirmed	**B*15:158**	**Confirmed**	**B*15:206**	**Confirmed**	B*15:255	Unconfirmed
B*15:108	**Confirmed**	**B*15:159**	**Confirmed**	**B*15:207**	**Confirmed**	B*15:256	Unconfirmed
B*15:109	Unconfirmed	**B*15:160**	**Confirmed**	**B*15:208**	**Confirmed**	B*15:257	Unconfirmed
B*15:110	Unconfirmed	**B*15:161**	**Confirmed**	B*15:209N	Unconfirmed	B*15:258N	Unconfirmed
B*15:111N	Unconfirmed	**B*15:162**	**Confirmed**	B*15:210	Unconfirmed	B*15:259	Unconfirmed
B*15:112	Unconfirmed	B*15:163	Unconfirmed	**B*15:211**	**Confirmed**	B*15:260	Unconfirmed
B*15:113	**Confirmed**	B*15:164	Unconfirmed	B*15:212	Unconfirmed	B*15:261	Unconfirmed
B*15:114	Unconfirmed	B*15:165	Unconfirmed	B*15:213	Unconfirmed	B*15:262N	Unconfirmed
B*15:115	Unconfirmed	B*15:166	Unconfirmed	B*15:214	Unconfirmed	**B*15:263**	**Confirmed**
B*15:116	Unconfirmed	**B*15:167**	**Confirmed**	B*15:215	Unconfirmed	B*15:264	Unconfirmed
B*15:117	Unconfirmed	B*15:168	Unconfirmed	B*15:216	Unconfirmed	B*15:265	Unconfirmed
B*15:118	Unconfirmed	B*15:169	Unconfirmed	B*15:217	Unconfirmed	**B*15:266**	**Confirmed**
B*15:119	Unconfirmed	**B*15:170**	**Confirmed**	B*15:218Q	Unconfirmed	B*15:267	Unconfirmed
B*15:120	Unconfirmed	**B*15:171**	**Confirmed**	B*15:219	Unconfirmed	**B*15:268**	**Confirmed**
B*15:121	Unconfirmed	**B*15:172**	**Confirmed**	**B*15:220**	**Confirmed**	B*15:269	Unconfirmed
B*15:122	Unconfirmed	**B*15:173**	**Confirmed**	B*15:221	Unconfirmed	B*15:270	Unconfirmed
B*15:123	Unconfirmed	B*15:174	Unconfirmed	B*15:222	Unconfirmed	**B*15:271**	**Confirmed**
B*15:124	Unconfirmed	B*15:175	Unconfirmed	B*15:223	Unconfirmed	**B*15:272N**	**Confirmed**
B*15:125	**Confirmed**	**B*15:176**	**Confirmed**	B*15:224	Unconfirmed	B*15:273	Unconfirmed
B*15:126	Unconfirmed	B*15:177	Unconfirmed	B*15:225	Unconfirmed	B*15:274	Unconfirmed
B*15:127	Unconfirmed	B*15:178	Unconfirmed	B*15:226N	Unconfirmed	B*15:275:01	Unconfirmed
B*15:128	Unconfirmed	B*15:179:01	Unconfirmed	B*15:227	Unconfirmed	B*15:275:02	Unconfirmed
B*15:129	Unconfirmed	B*15:179:02	Unconfirmed	**B*15:228**	**Confirmed**	B*15:276	Unconfirmed
B*15:131	Unconfirmed	**B*15:180**	**Confirmed**	**B*15:229**	**Confirmed**	**B*15:277**	**Confirmed**
B*15:132	**Confirmed**	**B*15:181N**	**Confirmed**	B*15:230	Unconfirmed	**B*15:278**	**Confirmed**
B*15:133	Unconfirmed	B*15:182N	Unconfirmed	B*15:231	Unconfirmed	B*15:279	Unconfirmed
B*15:134	Unconfirmed	**B*15:183**	**Confirmed**	**B*15:232**	**Confirmed**	B*15:280	Unconfirmed
B*15:135	**Confirmed**	B*15:184	Unconfirmed	B*15:233	Unconfirmed	B*15:281	Unconfirmed
B*15:136	Unconfirmed	B*15:185	Unconfirmed	B*15:234	Unconfirmed	**B*15:282**	**Confirmed**
B*15:137	Unconfirmed	B*15:186	Unconfirmed	**B*15:235**	**Confirmed**	B*15:283	Unconfirmed
B*15:138	Unconfirmed	B*15:187	Unconfirmed	**B*15:236**	**Confirmed**	B*15:284	Unconfirmed
B*15:139	Unconfirmed	B*15:188	Unconfirmed	**B*15:237**	**Confirmed**	**B*15:285**	**Confirmed**
B*15:140	Unconfirmed	**B*15:189**	**Confirmed**	B*15:238	Unconfirmed	B*15:286	Unconfirmed
B*15:141	**Confirmed**	**B*15:190N**	**Confirmed**	**B*15:239**	**Confirmed**	B*15:287	Unconfirmed
B*15:142	**Confirmed**	B*15:191	Unconfirmed	**B*15:240**	**Confirmed**	B*15:288	Unconfirmed
B*15:143	Unconfirmed	B*15:192	Unconfirmed	**B*15:241**	**Confirmed**	B*15:289	Unconfirmed
B*15:144	Unconfirmed	B*15:193	Unconfirmed	B*15:242:01	Unconfirmed	**B*15:290**	**Confirmed**
B*15:145	Unconfirmed	B*15:194	Unconfirmed	B*15:242:02	Unconfirmed	B*15:291	Unconfirmed
B*15:146	**Confirmed**	B*15:195	Unconfirmed	B*15:243	Unconfirmed	B*15:292	Unconfirmed
B*15:147	**Confirmed**	B*15:196	Unconfirmed	B*15:244	Unconfirmed	B*15:293	Unconfirmed
B*15:148	Unconfirmed	B*15:197:01	Unconfirmed	B*15:245Q	Unconfirmed	B*15:294N	Unconfirmed
B*15:149N	Unconfirmed	B*15:197:02	Unconfirmed	B*15:246N	Unconfirmed	B*15:295	Unconfirmed
B*15:150	**Confirmed**	B*15:198	Unconfirmed	B*15:247	Unconfirmed	B*15:296	Unconfirmed
B*15:151	**Confirmed**	B*15:199	Unconfirmed	**B*15:248**	**Confirmed**	B*15:297	Unconfirmed
B*15:152	Unconfirmed	B*15:200	Unconfirmed	B*15:249	Unconfirmed	B*15:298	Unconfirmed
B*15:153	**Confirmed**	B*15:201	Unconfirmed	B*15:250	Unconfirmed	B*15:299	Unconfirmed

Lot No.: 8G5 **Lot-specific information**

Allele	Status[1]	Allele	Status[1]	Allele	Status[1]	Allele	Status[1]
B*15:300	**Confirmed**	B*15:330	Unconfirmed	B*15:360	Unconfirmed	B*15:390	Unconfirmed
B*15:301	**Confirmed**	B*15:331	Unconfirmed	B*15:361	Unconfirmed	B*15:391	Unconfirmed
B*15:302N	Unconfirmed	**B*15:332**	**Confirmed**	B*15:362	Unconfirmed	B*15:392	Unconfirmed
B*15:303	Unconfirmed	B*15:333	Unconfirmed	B*15:363:01	Unconfirmed	B*15:393	Unconfirmed
B*15:304N	Unconfirmed	B*15:334	Unconfirmed	B*15:364	Unconfirmed	B*15:394	Unconfirmed
B*15:305	Unconfirmed	**B*15:335**	**Confirmed**	B*15:365	Unconfirmed	B*15:395	Unconfirmed
B*15:306	Unconfirmed	B*15:336	Unconfirmed	B*15:366	Unconfirmed	B*15:396	Unconfirmed
B*15:307	Unconfirmed	B*15:337	Unconfirmed	B*15:367	Unconfirmed	B*15:397	Unconfirmed
B*15:308	Unconfirmed	B*15:338	Unconfirmed	B*15:368	Unconfirmed	B*15:398	Unconfirmed
B*15:309	Unconfirmed	B*15:339	Unconfirmed	**B*15:369**	**Confirmed**		
B*15:310	Unconfirmed	B*15:340	Unconfirmed	B*15:370	Unconfirmed		
B*15:311	Unconfirmed	B*15:341	Unconfirmed	B*15:371	Unconfirmed		
B*15:312	Unconfirmed	**B*15:342**	**Confirmed**	B*15:372	Unconfirmed		
B*15:313	Unconfirmed	B*15:343	Unconfirmed	B*15:373	Unconfirmed		
B*15:314	Unconfirmed	B*15:344	Unconfirmed	B*15:374	Unconfirmed		
B*15:315	**Confirmed**	B*15:345	Unconfirmed	B*15:375N	Unconfirmed		
B*15:316	Unconfirmed	B*15:346	Unconfirmed	B*15:376	Unconfirmed		
B*15:317	Unconfirmed	**B*15:347**	**Confirmed**	B*15:377Q	Unconfirmed		
B*15:318	Unconfirmed	B*15:348	Unconfirmed	**B*15:378**	**Confirmed**		
B*15:319	**Confirmed**	B*15:349	Unconfirmed	**B*15:379**	**Confirmed**		
B*15:320	Unconfirmed	B*15:350	Unconfirmed	**B*15:380N**	**Confirmed**		
B*15:321Q	Unconfirmed	B*15:351	Unconfirmed	B*15:381	Unconfirmed		
B*15:322	Unconfirmed	B*15:352	Unconfirmed	B*15:382	Unconfirmed		
B*15:323	Unconfirmed	B*15:353	Unconfirmed	B*15:383	Unconfirmed		
B*15:324	Unconfirmed	B*15:354	Unconfirmed	B*15:384	Unconfirmed		
B*15:325	Unconfirmed	B*15:355	Unconfirmed	B*15:385	Unconfirmed		
B*15:326	Unconfirmed	B*15:356	Unconfirmed	B*15:386	Unconfirmed		
B*15:327	Unconfirmed	B*15:357	Unconfirmed	B*15:387	Unconfirmed		
B*15:328	Unconfirmed	B*15:358	Unconfirmed	B*15:388	Unconfirmed		
B*15:329	Unconfirmed	B*15:359	Unconfirmed	B*15:389	Unconfirmed		

[1]Allele 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-B*15 homo- and heterozygotes is available upon request.

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5

Lot-specific information

SPECIFICITY TABLE

HLA-B*15 SSP subtyping

Specificities and sizes of the PCR products of the 95+1 primer mixes used for HLA-B*15 SSP subtyping

Primer Mix	Size of spec. PCR product[1]	Size of control band[2]	Amplified HLA-B*15 alleles[3]	Other amplified Class I alleles
1	400 bp	**800 bp**	*15:01:01:01-15:01:04, 15:01:06-15:07:03, 15:12-15:15, 15:19-15:20, 15:24:01-15:28, 15:30:01:01-15:36, 15:38:01-15:40:02, 15:42-15:43, 15:45-15:50, 15:53-15:55, 15:57-15:58, 15:60-15:65, 15:69-15:71, 15:73, 15:75, 15:77-15:79N, 15:81-15:89, 15:91-15:92, 15:94N, 15:96, 15:98, 15:102-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:123, 15:125-15:129, 15:131-15:132, 15:135-15:138, 15:140-15:142, 15:144-15:147, 15:150-15:151, 15:154-15:160, 15:163-15:167, 15:169-15:175, 15:178-15:179:02, 15:181N-15:185, 15:187-15:188, 15:190N, 15:192-15:195, 15:199, 15:201-15:207, 15:210-15:214, 15:217-15:220, 15:223-15:225, 15:227-15:228, 15:231-15:235, 15:237, 15:239-15:242:02, 15:244-15:251, 15:253, 15:256-15:262N, 15:264-15:267, 15:269-15:272N, 15:274, 15:276-15:283, 15:285-15:289, 15:291, 15:295-15:302N, 15:304N, 15:308-15:310, 15:315-15:322, 15:324-15:328, 15:330-15:334, 15:336, 15:339-15:350, 15:352-15:353, 15:355, 15:357-15:360, 15:363:01-15:366, 15:368-15:375N, 15:377Q-15:379, 15:381, 15:383-15:387, 15:389-15:393, 15:395, 15:397-15:402, 15:405-15:407, 15:409-15:410, 15:412-15:413, 15:415-15:419, 15:421-15:422, 15:425, 15:428-15:432, 15:437-15:438, 15:440-15:444	*40:12, **C*16:85**
2[6]	290 bp	1070 bp	*15:01:01:01-15:01:03, 15:01:06-15:02:11, 15:03:03, 15:04:01:01-15:08:02, 15:10:02, 15:11:01-15:11:03, 15:11:05-15:15, 15:17:01:01-15:17:06, 15:19-15:21:01:02, 15:24:01-15:28, 15:30:01:01-15:36, 15:38:01-15:40:02, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75-15:79N, 15:81-15:89, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135-15:150,	*46:01:01-46:70, 46:72-46:74, **C*01:73, C*05:01:28, C*07:02:30, C*08:16:02**

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3[4]	120 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:17[w], 15:01:18-15:01:30, 15:01:32-15:01:41, 15:04:01:01-15:04:04, 15:07:01:01-15:08:02, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24:01-15:24:02, 15:26N-15:28, 15:30:01:01-15:30:01:02, 15:32:01-15:32:02, 15:34-15:35, 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, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:90, 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, 15:125-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:180-15:184, 15:187, 15:189-15:193, 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, 15:256-15:262N, 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, 15:363:01-15:363:02, 15:365, 15:367-15:368, 15:370-15:373, 15:375N, 15:377Q, 15:381, 15:385-15:387, 15:390-15:392, 15:398, 15:400N-15:401,	*07:100, 13:31, 13:41, 18:19, 27:25, 27:115, 27:161, 35:14:01-35:14:02, 35:43:01-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:185, 35:213, 35:265, 35:343, 37:66, 39:36, 44:146, 44:275, 45:05, 46:01:01-46:02, 46:04-46:05, 46:07N, 46:09-46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:26-46:32, 46:34-46:42, 46:44, 46:46-46:53, 46:55N-46:57, 46:60-46:61, 46:63-46:74, 50:47, 51:61:01-51:61:02, 51:220, 52:21:01-52:21:02, 54:06, 54:33, 55:21, 56:03, 56:43, 58:78, **A*26:68, A*26:100, A*68:56, C*02:56, C*06:20, C*12:50**

Lot No.: 8G5 **Lot-specific information**

			15:405-15:406, 15:409-15:410, 15:412-15:413, 15:415-15:417, 15:419, 15:422, 15:428-15:432, 15:440-15:443	
4	180 bp 390 bp	**800 bp**	*15:01:01:02N *15:285, 15:378	
5[6]	385 bp	1070 bp	*15:02:01-15:02:11, 15:08:01-15:11:07, 15:13:01-15:13:02, 15:15, 15:18:01:01-15:18:06, 15:21:01:01-15:21:01:02, 15:23, 15:29, 15:31, 15:37, 15:44, 15:51-15:52, 15:55, 15:64:01-15:64:02, 15:72, 15:76[w], 15:80, 15:88-15:90, 15:93, 15:99, 15:108, 15:112, 15:114-15:115, 15:119, 15:121, 15:124, 15:133-15:134, 15:139, 15:143-15:144, 15:148, 15:153, 15:161, 15:170, 15:176, 15:186, 15:189, 15:191, 15:194, 15:197:01-15:198, 15:200, 15:209N, 15:213-15:215, 15:221, 15:223, 15:226N, 15:229, 15:238, 15:252, 15:263, 15:265, 15:275:01-15:275:02, 15:283-15:284, 15:290-15:294N, 15:297, 15:301-15:303, 15:305-15:308, 15:311-15:314, 15:319, 15:323, 15:325, 15:328-15:330, 15:335, 15:337-15:338, 15:341, 15:345, 15:350-15:351, 15:354, 15:357-15:358, 15:367, 15:374, 15:378, 15:380N, 15:382, 15:384, 15:388, 15:394, 15:399, 15:404, 15:414, 15:418, 15:420, 15:425-15:427, 15:433-15:439, 15:445	**C*06:147**
6	525 bp	1070 bp	*15:02:01-15:02:11, 15:13:01-15:13:02, 15:21:01:01-15:21:01:02, 15:25:01-15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:88-15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 15:250, 15:265, 15:271, 15:283, 15:289, 15:291, 15:297, 15:301-15:302N, 15:308, 15:319, 15:325, 15:328, 15:330, 15:341, 15:345, 15:357-15:358, 15:366, 15:374, 15:378, 15:393-15:394, 15:399, 15:402, 15:404, 15:407, 15:418, 15:420, 15:425, 15:437-15:438	*46:33, 46:67
7	330 bp	1070 bp	*15:03:01:01-15:03:07, 15:09:01-15:10:04, 15:18:01:01-15:18:06, 15:23, 15:29, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64:01-15:64:02, 15:69, 15:72, 15:74, 15:80, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197:01-15:198, 15:200, 15:210, 15:212, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238,	*40:12, **C*03:342, C*07:46, C*07:356, C*07:546, C*12:184, C*15:99, C*16:85**

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8[4]	105 bp	1070 bp	*15:04:01:01-15:04:04, 15:16:01:01-15:16:03, 15:67, 15:95, 15:137, 15:155, 15:222, 15:254, 15:293, 15:310, 15:362, 15:408	*13:04, 13:46, 13:72, 35:37, 35:235, 35:265, 35:276, 39:06:01-39:06:05, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 39:83, 39:90, 39:102, 39:109, 39:127, 39:129, 39:132, 40:86, 40:159, 40:330, 41:30, 41:50, 45:02, 45:09, 46:32, 49:04:01-49:05, 49:50, 50:09, 50:33, 51:13:01-51:13:02, 51:37, 51:63:01-51:63:02, 51:92:01-51:92:02, 51:97, 51:172, 51:216, 52:14, 52:39, 52:75, 54:14, 55:13, 55:23, 55:32, 55:58, 55:68, 56:22, 56:50, 59:03, 73:01-73:02, **C*05:152, C*07:463, C*12:183**
9	365 bp	1070 bp	*15:05:01-15:05:03, 15:31, 15:48, 15:51[w], 15:52, 15:55, 15:84, 15:86, 15:91, 15:107, 15:114, 15:123-15:124, 15:136, 15:151, 15:155, 15:179:01[w]-15:179:02[w], 15:185-15:186, 15:188, 15:218Q[w], 15:222, 15:224, 15:235, 15:237, 15:275:01-15:275:02, 15:283, 15:332, 15:348, 15:383, 15:393, 15:396, 15:407, 15:415, 15:421	*46:06, 46:09, 46:11, 46:13:01-46:13:03, 46:18-46:19, 46:21:01-46:21:02, 46:25, 46:33, 46:43
10	300 bp 515 bp	1070 bp	*15:37-15:38:02, 15:185, 15:323, 15:335, 15:364, 15:368, 15:435 *15:06, 15:27:01-15:27:04, 15:84, 15:109, 15:112, 15:195, 15:327, 15:344, 15:398	
11	140 bp	**800 bp**	*15:07:01:01-15:07:03, 15:45, 15:55, 15:68, 15:126, 15:197:02, 15:207, 15:324, 15:329, 15:331, 15:360, 15:383, 15:405, 15:431	*07:68:01-07:68:03, 07:100, 07:237, 07:262, 08:71, 13:108, 14:05, 14:13, 14:53, 18:14, 27:32, 27:138, 35:05:01:01-35:05:03, 35:22, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 35:199, 35:232, 35:368, 38:19, 39:03:01:01-39:03:01:02, 39:14:01:01-39:14:01:02, 39:24:01-39:24:02, 39:29, 39:37, 39:76, 39:120, 40:35:01-40:35:02, 40:71, 41:24, 42:10, 42:17, 44:54, 44:106, 44:135, 44:158, 44:184, 44:213, 46:12, 48:12, 48:14, 48:29, 51:64, 53:14, 58:18
12	400 bp	1070 bp	*15:08:01-15:08:02, 15:29, 15:49, 15:56, 15:191, 15:236	**C*06:147**
13	395 bp	**800 bp**	*15:09:01-15:10:04, 15:18:01:01-15:18:06, 15:21:01:01-15:21:01:02,	

Lot No.: 8G5 **Lot-specific information**

	435 bp		15:23, 15:37, 15:44, 15:51-15:52, 15:66, 15:72, 15:80, 15:90, 15:93, 15:99, 15:108, 15:114-15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:161, 15:176, 15:186, 15:189, 15:197:01-15:198, 15:200, 15:221, 15:226N, 15:229, 15:238, 15:243, 15:252, 15:263, 15:275:01-15:275:02, 15:290, 15:292-15:294N, 15:306-15:307, 15:311-15:314, 15:323, 15:329, 15:335, 15:337-15:338, 15:351, 15:354, 15:376, 15:380N, 15:382, 15:388, 15:394, 15:404, 15:414, 15:420, 15:426-15:427, 15:433-15:436, 15:439, 15:445 *15:79N	
14	465 bp 515 bp	1070 bp	*15:09:01-15:10:04, 15:30:01:01-15:30:01:02, 15:37, 15:45, 15:48, 15:63, 15:83, 15:90, 15:99, 15:150, 15:188, 15:243, 15:248, 15:252, 15:287, 15:312-15:313, 15:323-15:324, 15:329, 15:338, 15:361, 15:427, 15:435, 15:439, 15:445 *15:110	*46:74
15[4,6]	105 bp	1070 bp	*15:01:02, 15:09:01-15:09:02, 15:243, 15:252, 15:277-15:278, 15:361, 15:435	*07:02:11, 07:05:03, 35:251, 40:01:06, 40:26, 51:06:01, 51:06:03-51:06:04, 51:59, 51:64, 51:135, 51:194, **C*02:02:23**
16[4]	120 bp 190 bp	1070 bp	*15:116, 15:124, 15:352, 15:412 *15:12, 15:19, 15:270, 15:298, 15:304N	*35:331, 40:52, 40:59, 40:352, 46:06, 46:43, 48:23, 57:59
17	435 bp	1070 bp	*15:13:01-15:13:02, 15:16:01:01-15:17:06, 15:23-15:24:02, 15:67, 15:87, 15:95, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:254, 15:268, 15:273, 15:356, 15:361-15:362, 15:396, 15:403, 15:408, 15:411, 15:418, 15:423-15:424, 15:442	
18	195 bp	1070 bp	*15:14, 15:91, 15:131, 15:161	*18:56, 35:45, 35:71, 44:17, 44:43:01-44:43:02, 44:144, 44:230, 44:256, 45:09, 46:17, 53:22, 57:93, 58:07, **C*02:82, C*06:165, C*14:61**
19	395 bp	**800 bp**	*15:16:01:01-15:17:06, 15:67, 15:74, 15:95, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:254, 15:268, 15:273, 15:356, 15:361-15:362, 15:396, 15:403, 15:408, 15:411, 15:423-15:424	
20	360 bp 505 bp	1070 bp	*15:105 *15:16:01:01-15:16:03, 15:34, 15:62, 15:67, 15:85-15:86, 15:95, 15:137, 15:194, 15:222, 15:242:02, 15:254, 15:303, 15:362, 15:393, 15:407-15:408	*46:11, 46:18, 46:33, 46:53, 46:67

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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21	205 bp 425 bp	1070 bp	*15:16:01:01-15:16:03, 15:67, 15:95, 15:222, 15:254, 15:362, 15:408 *15:43	**C*03:158**
22	190 bp	**800 bp**	*15:01:01:01-15:01:04, 15:01:06-15:01:41, 15:03:01:01-15:05:03, 15:07:01:01-15:11:07, 15:12^{w}, 15:14-15:16:03, 15:18:01:01-15:18:06, 15:19^{w}, 15:20, 15:23-15:24:02, 15:26N-15:30:01:02, 15:32:01-15:35, 15:37-15:39:02, 15:43, 15:45-15:46, 15:48, 15:51, 15:53-15:54, 15:56-15:58, 15:60-15:68, 15:70-15:76, 15:78:01-15:82, 15:84-15:85, 15:87, 15:90-15:92, 15:94N-15:99, 15:101-15:105, 15:107-15:111N, 15:113, 15:115-15:116, 15:118-15:120, 15:122-15:123, 15:125-15:127, 15:129, 15:131-15:136, 15:140-15:143, 15:145-15:155, 15:157-15:161, 15:163-15:167, 15:169, 15:171-15:176, 15:178-15:185, 15:187, 15:189-15:195, 15:197:01-15:198, 15:200-15:203, 15:205-15:206, 15:209N-15:210, 15:212, 15:215, 15:217, 15:219-15:223, 15:225-15:229, 15:231-15:232, 15:234-15:237, 15:239, 15:242:01-15:244, 15:246N-15:249, 15:251, 15:253-15:264, 15:266-15:269, 15:270^{w}, 15:272N, 15:274-15:282, 15:284-15:288, 15:290, 15:292-15:296, 15:298^{w}, 15:299-15:300, 15:303, 15:304N^{w}, 15:305-15:307, 15:309-15:318, 15:320-15:322, 15:324, 15:326-15:327, 15:329, 15:331-15:338, 15:340, 15:343-15:344, 15:346-15:347, 15:350-15:355, 15:359, 15:361-15:365, 15:367, 15:369-15:373, 15:375N-15:377Q, 15:379-15:383, 15:385-15:388, 15:390-15:393, 15:397-15:398, 15:401-15:402, 15:406-15:410, 15:412-15:417, 15:419, 15:422, 15:426-15:436, 15:439-15:445	*07:20, 07:24, 07:60, 07:100, 07:131, 07:220, 07:223, 07:235, 08:21, 08:25, 08:175, 13:03-13:04, 13:48, 13:62, 13:86, 18:36, 18:56-18:58, 18:101, 27:153, 35:01:01:01-35:01:35, 35:01:37-35:02:07, 35:03:01:01-35:03:05, 35:03:07-35:14:02, 35:16-35:30, 35:32:01-35:32:02, 35:34, 35:36-35:59:02, 35:61:01-35:64:02, 35:67-35:72, 35:74-35:85, 35:89-35:92, 35:94-35:95, 35:97-35:130N, 35:132-35:156, 35:158-35:163, 35:165N-35:187, 35:189, 35:191-35:212, 35:214, 35:216N-35:229, 35:231-35:233, 35:235-35:260, 35:263-35:275, 35:278-35:321, 35:323-35:332, 35:334-35:340, 35:342, 35:344-35:349, 35:351-35:365, 35:367-35:370, 38:30, 38:65, 39:32-39:33, 39:74, 40:05:01:01-40:05:01:02, 40:26, 40:28, 40:63, 40:71, 40:92, 40:174, 40:324, 40:343, 41:17, 44:10, 44:14, 44:17, 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, 44:276, 45:09, 45:14, 46:01:01-46:02, 46:04-46:05, 46:07N-46:17, 46:19-46:20, 46:22-46:28, 46:31-46:50, 46:52-46:74, 48:02:01-48:02:03, 48:25, 49:04:01-49:04:02, 51:01:01:01-51:01:31, 51:01:33-51:01:38, 51:01:40-51:01:49, 51:01:51-51:01:58, 51:01:60-51:09:03, 51:11N-51:15, 51:19-51:20, 51:22-51:24:05, 51:26-51:30, 51:32-51:33, 51:35, 51:37-51:41N, 51:43-51:46, 51:48-51:80, 51:83-51:84, 51:86-51:92:02, 51:94-51:100, 51:102-51:142, 51:145-51:152, 51:154-51:156, 51:158:01-51:171, 51:173Q-51:196, 51:198-51:215, 51:217-51:222, 51:224-51:226, 51:228-51:234, 52:01:01:01-52:01:10, 52:01:12-52:01:20, 52:01:22-52:07, 52:09:01-52:25:02, 52:27-52:36, 52:38-52:62, 52:64-52:66, 52:68-52:70, 52:72-52:75, 53:01:01-53:01:06, 53:01:08-53:06, 53:08:01-53:50, 54:03, 54:06, 54:33, 55:08, 55:51, 56:01:01:01-56:09, 56:11, 56:13-56:17, 56:20:01-56:22, 56:24-56:30, 56:33-56:53, 56:55:01:01-56:55:01:02,

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23[8]	230 bp	**800 bp**	*15:19, 15:304N	*46:24
24	205 bp 305 bp	1070 bp	*15:26N *15:33, 15:72, 15:78:01-15:78:04, 15:107, 15:116, 15:141, 15:150, 15:188, 15:209N, 15:248, 15:287, 15:352, 15:421	*46:06, 46:45
25	315 bp 385 bp	1070 bp	*15:46, 15:53, 15:106, 15:212 *15:28, 15:428	**C*16:85**
26	230 bp	1070 bp	*15:32:01-15:32:02, 15:299	**C*03:178, C*07:186, C*07:242, C*07:265**
27[4]	115 bp 195 bp	1070 bp	*15:33, 15:248 *15:400N	*49:22, 51:126, 57:54, 57:96, **C*03:87:01-03:87:02, C*05:27, C*05:39, C*08:115**
28	240 bp	1070 bp	*15:35, 15:141, 15:290, 15:381	
29	255 bp	1070 bp	*15:37-15:38:02, 15:185, 15:323, 15:335, 15:364, 15:368, 15:435	*07:218, 07:220, 08:118, 14:05-14:06:01, 14:08:02, 14:13, 14:53, 14:56, 18:01:01:01-18:01:05, 18:01:07-18:01:25, 18:03:01-18:07:02, 18:09, 18:12:01-18:15, 18:17N, 18:19-18:20, 18:23N-18:26, 18:28-18:34, 18:36-18:44:01, 18:45-18:51, 18:53-18:55, 18:57, 18:59-18:100, 18:102-18:104, 18:106-18:109, 18:111-18:140, 18:142-18:145, 39:32, 39:43, 39:48, 40:51, 40:113, 40:163, 40:174, 51:06:01, 51:06:03-51:06:04, 51:45, 51:62, 51:64, 51:135, 51:194, 56:31, 67:06
30[6]	320 bp 355 bp 405 bp	1070 bp	*15:40:01-15:40:02, 15:47:01-15:47:02, 15:49, 15:52, 15:114, 15:117, 15:124, 15:138, 15:238, 15:241, 15:389, 15:421 *15:75, 15:312 *15:375N	*46:06, 46:25, 46:30
31	320 bp 395 bp	1070 bp	*15:44, 15:50, 15:69, 15:83, 15:86, 15:93, 15:121, 15:186, 15:188, 15:199, 15:218Q, 15:224, 15:252, 15:265, 15:323, 15:348, 15:368 *15:114, 15:153	*46:03, 46:18, 46:21:01-46:21:02, 46:29
32	275 bp 350 bp	1070 bp	*15:196 *15:190N	

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	380 bp		*15:48, 15:108, 15:136, 15:235, 15:249	*46:19
33	200 bp 255 bp 340 bp	1070 bp	*15:118 *15:18:03, 15:42, 15:73, 15:86, 15:224, 15:303 *15:192, 15:281, 15:424	*46:11, 46:18
34	160 bp	1070 bp	*15:51, 15:179:01-15:179:02, 15:199, 15:218Q	*08:28, 08:35, 08:37, 08:89, 08:107, 18:56, 18:113, 35:115, 35:260, 37:35, 37:56, 41:24, 41:30, 41:51, 42:09, 44:17, 44:230, 45:09, 51:97, 53:22, 57:24, **C*07:68, C*07:140, C*07:151, C*07:302**
35	165 bp	1070 bp	*15:30:01:01-15:30:01:02, 15:58, 15:73, 15:150, 15:303, 15:324	*08:70, 13:31, 13:41, 35:44, 39:36, 40:324, 46:61, 46:74, 48:19, 51:61:01-51:61:02, 52:21:01-52:21:02, 54:33, 55:21, 56:43, **C*02:68**
36[6]	360 bp 435 bp	**800 bp**	*15:82, 15:260 *15:36, 15:89, 15:115, 15:256, 15:339	**C*03:186:01, C*12:57:02** **C*16:85**
37	170 bp	1070 bp	*15:47:01-15:47:02, 15:49, 15:65, 15:84, 15:99, 15:221, 15:237, 15:379	*07:02:01:01-07:02:17, 07:02:19-07:02:25, 07:02:27-07:02:45, 07:02:47-07:03, 07:05:01:01-07:13, 07:15-07:16, 07:18:01-07:18:02, 07:20-07:24, 07:27, 07:29-07:33:03, 07:35-07:42, 07:44N, 07:45[w], 07:46-07:47, 07:49N-07:51, 07:52[w], 07:53-07:54, 07:56:01-07:65, 07:67N-07:79, 07:81-07:95, 07:97-07:99, 07:101-07:114, 07:116-07:130, 07:132-07:145, 07:148-07:163, 07:165-07:171, 07:173-07:177, 07:179-07:196, 07:198-07:208, 07:210-07:222, 07:224, 07:227-07:234, 07:236-07:259, 07:261-07:283, 07:285N-07:311, 08:20, 08:40, 08:79, 08:156, 13:18, 13:73, 18:13, 18:21, 18:30, 35:08:01:01-35:08:10, 35:18, 35:45, 35:61:01-35:61:02, 35:66, 35:80, 35:99-35:100, 35:105, 35:142, 35:156, 35:158, 35:172, 35:174, 35:176, 35:187, 35:192, 35:206, 35:225, 35:229, 35:232, 35:262, 35:300-35:301, 35:328, 35:333Q, 35:337:01-35:338, 35:341-35:342, 35:346, 35:356, 37:07, 39:08[w], 39:11[w], 39:33, 40:15-40:16, 40:23, 40:32, 40:98, 40:128, 40:161, 40:198, 46:03, 46:62, 48:05, 48:08, 51:05, 51:29, 51:54, 51:82, 51:217, 52:24, 53:11, 53:16, 53:24, 54:10, 54:20, 55:09, 55:37, 55:52, 56:51, 57:02:01-57:02:02, 57:12-57:13, 57:19, 57:28N, 57:30, 57:42, 57:63, 58:22, **C*01:90, C*01:101-01:102, C*01:113, C*01:116, C*04:108, C*05:132,**

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				C*14:92, C*15:08, C*15:143, C*15:148
38	225 bp	1070 bp	*15:61, 15:70, 15:76, 15:101, 15:180^{w}, 15:189, 15:236, 15:255, 15:397^{w}	*07:29^{w}, 07:65, 07:72, 07:86, 08:01:01:01^{w}-08:01:39^{w}, 08:04:01^{w}-08:05^{w}, 08:07^{w}-08:22^{w}, 08:24^{w}-08:53:02^{w}, 08:55^{w}-08:65^{w}, 08:67N^{w}-08:71^{w}, 08:73^{w}-08:93^{w}, 08:95^{w}-08:109^{w}, 08:111^{w}-08:116^{w}, 08:118^{w}-08:125^{w}, 08:127^{w}-08:130^{w}, 08:132^{w}, 08:134^{w}-08:138^{w}, 08:140^{w}-08:150^{w}, 08:152^{w}-08:157^{w}, 08:160^{w}-08:189^{w}, 08:191^{w}-08:195^{w}, 14:11, 14:28^{w}, 27:106^{w}, 35:29:01-35:29:02, 35:69, 35:76, 35:136, 35:186^{w}, 35:198, 35:229, 35:254, 35:294, 35:316, 39:04, 39:63, 40:43^{w}, 40:166^{w}, 41:27^{w}, 41:47, 44:90, 44:277, 45:06^{w}, 46:01:01^{w}, 46:01:03^{w}-46:01:23^{w}, 46:03^{w}-46:04^{w}, 46:06^{w}-46:34^{w}, 46:36^{w}-46:49^{w}, 46:51Q^{w}-46:74^{w}, 50:52, 51:20^{w}, 51:208^{w}, 53:23^{w}, 54:01:01-54:01:03, 54:01:05-54:01:07, 54:03-54:11, 54:12^{w}, 54:13-54:22, 54:24-54:29, 54:31-54:38, 55:01:01-55:01:07, 55:01:09-55:02:10, 55:03^{w}, 55:04-55:05, 55:07-55:09, 55:11, 55:12^{w}, 55:13-55:15, 55:16^{w}, 55:17, 55:19-55:24, 55:25^{w}, 55:26-55:30, 55:32-55:48, 55:49^{w}, 55:50-55:68, 55:69^{w}, 55:70-55:75, 55:77-55:81, 55:83N-55:87, 56:01:01:01-56:01:08, 56:01:10-56:06, 56:08-56:20:02, 56:21^{w}, 56:22, 56:24-56:34, 56:36-56:40, 56:41^{w}, 56:43, 56:45-56:53, 56:55:01:01-56:55:01:02, 78:01:01:01-78:01:02, 78:03, 78:07-78:08, 83:01, **C*07:441:01^{w}-07:441:02^{w}, C*16:86^{w}**
39	315 bp 385 bp	**800 bp**	*15:60, 15:119 *15:95, 15:285, 15:378	**C*07:213, C*07:602**
40[5]	220 bp 425 bp	1070 bp	*15:71, 15:175, 15:381 *15:13:01-15:13:02, 15:16:01:01-15:17:06, 15:23-15:24:02, 15:67, 15:95, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:254, 15:268, 15:273, 15:356, 15:361-15:362, 15:396, 15:403, 15:408, 15:411, 15:418, 15:423-15:424, 15:442	**C*06:77**
41	465 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:08:02, 15:11:01-15:16:03, 15:18:01:01-15:19, 15:21:01:01-15:21:01:02, 15:23-15:29, 15:31-15:36, 15:38:01-15:40:02, 15:43-15:44, 15:46-15:47:02, 15:49-15:57, 15:60-15:62, 15:64:01-15:72, 15:74-15:76,	*35:43:01, 35:135, 35:185, 46:01:01-46:10, 46:12-46:17, 46:19-46:60, 46:62-46:69, 46:71-46:73, 51:220, 56:03

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42	350 bp	1070 bp	*15:02:01-15:03:07, 15:05:01-15:06, 15:09:01-15:10:04, 15:13:01-15:13:02, 15:16:01:01-15:18:06, 15:21:01:01-15:21:01:02, 15:23, 15:25:01-15:25:03, 15:29, 15:31, 15:36-15:37, 15:39:01-15:40:02, 15:44, 15:48, 15:52, 15:55, 15:61-15:62, 15:64:01-15:64:02, 15:67, 15:69, 15:72, 15:74, 15:80, 15:86, 15:88^{w}, 15:89-15:91, 15:93, 15:95, 15:98, 15:103, 15:106-15:108, 15:112, 15:114-15:115, 15:119, 15:121, 15:123-15:124, 15:127, 15:131-15:134, 15:136, 15:138-15:139, 15:151, 15:153, 15:155-15:156, 15:158, 15:161-15:162, 15:170, 15:173, 15:176^{w}, 15:177, 15:185-15:186, 15:188, 15:194-15:198, 15:200^{w}, 15:204, 15:208, 15:210, 15:213-15:214, 15:216, 15:219-15:220, 15:222-15:224, 15:226N, 15:229-15:230, 15:235, 15:238, 15:240, 15:242:01-15:243, 15:250^{w}, 15:252-15:255, 15:263, 15:265-15:266, 15:268, 15:271, 15:273-15:275:02, 15:281-15:283, 15:288-15:294N, 15:297, 15:301-15:302N, 15:306-15:308, 15:310-15:311, 15:312^{w}, 15:313-15:314, 15:319, 15:323, 15:325, 15:328-15:330, 15:332, 15:335, 15:337-15:339, 15:341, 15:345, 15:348, 15:351, 15:354, 15:356-15:358, 15:360-15:362, 15:364, 15:366, 15:369, 15:374, 15:376, 15:378, 15:380N, 15:382, 15:384, 15:388-15:389, 15:393-15:397, 15:399, 15:402-15:404, 15:407-15:408, 15:411^{w}, 15:414, 15:418, 15:420-15:421, 15:423-15:427, 15:433-15:439, 15:444-15:445	*46:06, 46:08, 46:11, 46:13:01-46:13:03, 46:18-46:19, 46:21:01-46:21:02, 46:25-46:26, 46:33, 46:43
	460 bp		*15:73, 15:86, 15:224, 15:303	*46:11, 46:18

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43	525 bp	1070 bp	*15:04:01:01-15:04:04, 15:16:01:01-15:16:03, 15:67, 15:83, 15:95, 15:137, 15:155, 15:222, 15:254, 15:293, 15:303, 15:310, 15:362, 15:408	*46:11, 46:18, 46:32
44	515 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:13, 15:01:15-15:01:41, 15:03:01:01-15:03:06, 15:05:01-15:05:03, 15:07:01:01-15:11:02, 15:11:04-15:12, 15:14-15:15, 15:17:01:01-15:18:01:04, 15:18:03-15:19, 15:23-15:24:02, 15:26N^{w}, 15:28-15:31, 15:33-15:35, 15:37-15:40:02, 15:43, 15:45-15:58, 15:60-15:61, 15:63-15:66, 15:68-15:76, 15:78:01-15:79N, 15:81-15:82, 15:87, 15:90-15:94N, 15:96-15:99, 15:101-15:105, 15:107-15:108, 15:111N, 15:113-15:120, 15:122-15:128, 15:131-15:136, 15:138, 15:140-15:143, 15:145-15:153, 15:156-15:169, 15:171-15:183, 15:185-15:193, 15:196-15:203, 15:205-15:212, 15:215-15:221, 15:224-15:227, 15:229-15:239, 15:241-15:242:01, 15:243-15:249, 15:251-15:253, 15:255-15:264, 15:266-15:270, 15:272N-15:282, 15:284-15:288, 15:290, 15:292, 15:294N-15:296, 15:298, 15:300, 15:304N-15:307, 15:309, 15:311-15:318, 15:320-15:324, 15:326, 15:329, 15:331-15:340, 15:343, 15:346-15:356, 15:359-15:361, 15:363:01-15:365, 15:367-15:373, 15:375N-15:377Q, 15:379-15:382, 15:384-15:392, 15:396-15:397, 15:400N-15:401, 15:403, 15:405-15:406, 15:409-15:417, 15:419, 15:421-15:424, 15:426-15:436, 15:439-15:445	*35:43:01, 35:135, 35:185, 46:01:01-46:01:18, 46:01:20-46:10, 46:12-46:17, 46:19-46:31, 46:34-46:66, 46:68-46:74, 51:220, 56:03
45	475 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:41, 15:03:01:01-15:05:03, 15:07:01:01-15:12, 15:14-15:16:03, 15:18:01:01-15:19, 15:23-15:24:02, 15:26N-15:30:01:02, 15:32:01-15:35, 15:37-15:40:02, 15:43, 15:45-15:54, 15:56-15:58, 15:60-15:76, 15:78:01-15:87, 15:90-15:99, 15:101-15:105, 15:107-15:111N, 15:113-15:120, 15:122-15:127, 15:129, 15:131-15:136, 15:138, 15:140-15:143, 15:145-15:155, 15:157-15:161, 15:163-15:167, 15:169, 15:171-15:176, 15:178-15:195, 15:197:01-15:203, 15:205-15:206, 15:209N-15:210, 15:212, 15:215, 15:217-15:227, 15:229, 15:231-15:232, 15:234-15:239, 15:241-15:249, 15:251-15:264, 15:266-15:270, 15:272N, 15:274-15:282, 15:284-15:288, 15:290, 15:292-15:296, 15:298-15:300, 15:303-15:307, 15:309-15:318,	*35:43:01, 35:135, 35:185, 46:01:01-46:74, 51:220, 56:03

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46	360 bp	**800 bp**	*15:01:01:01-15:01:04, 15:01:06-15:04:04, 15:06-15:19, 15:21:01:01-15:21:01:02, 15:23-15:30:01:02, 15:32:01-15:40:02, 15:43-15:47:02, 15:49-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:74, 15:76-15:82, 15:85, 15:87, 15:89-15:90, 15:92-15:99, 15:101-15:104, 15:106, 15:108-15:110, 15:112-15:113, 15:115-15:122, 15:125-15:129, 15:131-15:135, 15:137-15:144, 15:146-15:150, 15:152-15:154, 15:156-15:161, 15:163-15:175, 15:177-15:178, 15:180-15:184, 15:187, 15:189-15:199, 15:201-15:217, 15:219-15:221, 15:223, 15:225-15:227, 15:229-15:234, 15:236, 15:238-15:249, 15:251-15:274, 15:276-15:282, 15:284-15:311, 15:313-15:331, 15:333-15:347, 15:349:01-15:382, 15:384-15:392, 15:394-15:395, 15:397-15:406, 15:408-15:410, 15:412-15:414, 15:416-15:420, 15:422-15:445	*35:43:01, 35:135, 35:185, 46:01:01-46:05, 46:07N-46:08, 46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:26-46:32, 46:34-46:42, 46:44-46:74, 51:220, 56:03
47	320 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:30, 15:01:32-15:19, 15:21:01:01-15:21:01:02, 15:23-15:27:03, 15:28-15:39:02, 15:43, 15:45-15:46, 15:48, 15:51, 15:53-15:58, 15:60-15:68, 15:70-15:82, 15:84-15:85, 15:87-15:92, 15:94N-15:99, 15:101-15:113, 15:115-15:116, 15:118-15:120, 15:122-15:123, 15:125-15:129, 15:131-15:137, 15:139-15:185, 15:187, 15:189-15:198, 15:200-15:217, 15:219-15:223, 15:225-15:227, 15:229-15:237, 15:239-15:240, 15:242:01-15:251, 15:253-15:264, 15:266-15:322, 15:324-15:340, 15:342-15:347, 15:349:01-15:367, 15:369-15:382, 15:384-15:388, 15:390-15:420, 15:422-15:445	*35:43:01, 35:135, 35:185, 46:01:01-46:02, 46:04-46:05, 46:07N-46:17, 46:19-46:20, 46:22-46:28, 46:31-46:74, 51:220, 56:03
48	420 bp	1070 bp	*15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:17^{w}, 15:01:18-15:19, 15:21:01:01-15:21:01:02, 15:23-15:32:02, 15:34-15:40:02, 15:43-15:58, 15:60-15:71, 15:73-15:77, 15:79N-15:99, 15:101-15:106, 15:108-15:115, 15:117-15:129, 15:131-15:140, 15:142-15:149N, 15:151-15:187, 15:189-15:227, 15:229-15:247, 15:249-15:286, 15:288-15:294N,	*35:43:01, 35:135, 35:185, 46:01:01-46:05, 46:07N-46:44, 46:46-46:53, 46:55N-46:57, 46:59-46:74, 51:220, 56:03

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49	135 bp	1070 bp	*15:57, 15:135	*13:39, 13:67
50[4]	85 bp 185 bp	1070 bp	*15:67, 15:343 *15:206	*35:110, 58:77, **A*02:598, A*02:695, A*68:56**
51	135 bp 175 bp 200 bp	1070 bp	*15:98, 15:109, 15:163 *15:277-15:278 *15:246N	*35:122, 40:339, 56:29
52[9]	200 bp 345 bp	**800 bp**	*15:104, 15:307, 15:321Q *15:92, 15:213	*35:364, 51:142
53	210 bp	**800 bp**	*15:96	**C*03:175, C*03:199, C*03:245**
54	250 bp 410 bp	**800 bp**	*15:187 *15:97	**C*12:36**
55[6]	175 bp 210 bp 255 bp	1070 bp	*15:214 *15:321Q *15:102, 15:284	*07:120, 14:61, 18:81, 35:250, 40:150, 48:45, 51:165, 57:29 *37:71, 51:30, 73:01-73:02
56[4]	70 bp 260 bp	1070 bp	*15:103 *15:227	*27:69, 37:23, 40:213
57	340 bp 480 bp	1070 bp	*15:111N, 15:300 *15:369	
58	175 bp	1070 bp	*15:113, 15:319	*52:17
59[5,9]	230 bp 370 bp 420 bp	**800 bp**	*15:191, 15:234 *15:198, 15:270 *15:94N, 15:294N	**C*06:33** *****35:161
60	160 bp	**800 bp**	*15:20, 15:228, 15:271, 15:305, 15:435	*35:01:01:01-35:01:27, 35:01:29-35:01:46, 35:01:48-35:30, 35:32:01-35:34, 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, 35:186-35:278, 35:280-35:358, 35:360-35:370, 48:02:01-48:02:03, 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, 51:221-51:234, 52:01:01:01-52:06:03, 52:08-52:75, 53:01:01-53:50, 56:05:01-56:05:02, 56:21, 56:36, 58:01:01:01-58:01:21, 58:01:23-58:02:02, 58:04-58:10N, 58:12-58:19, 58:21-58:29, 58:31N-58:93N, 67:05, 78:01:01:01, 78:01:02-78:09, 81:03
61	160 bp 205 bp	1070 bp	*15:175 *15:125	*40:331 *40:342, 44:22, 44:105, 49:24
62[4,5]	105 bp	1070 bp	*15:126	*07:175
63	175 bp 280 bp	1070 bp	*15:127 *15:315	

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64[4]	90 bp 135 bp 240 bp 365 bp	**800 bp**	*15:302N *15:270 *15:301 *15:122	**C*03:48, C*05:126, C*06:85, C*07:540**
65	405 bp 470 bp 520 bp	1070 bp	*15:375N *15:232 *15:129, 15:342, 15:395	*46:64
66	435 bp	1070 bp	*15:02:01-15:02:11, 15:13:01-15:13:02, 15:20-15:21:01:02, 15:25:01-15:25:03, 15:36, 15:44, 15:77, 15:85, 15:88-15:89, 15:118, 15:121, 15:139, 15:144, 15:154, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 15:250, 15:265, 15:271, 15:283, 15:289, 15:291, 15:297, 15:301-15:302N, 15:319, 15:325, 15:328, 15:330, 15:341, 15:345, 15:357-15:358, 15:366, 15:374, 15:378, 15:393-15:394, 15:399, 15:402, 15:404, 15:407, 15:418, 15:420, 15:425, 15:437-15:438	*13:01:01:01-13:01:13, 13:06-13:07N, 13:12:01-13:13:02, 13:17, 13:20-13:23, 13:25-13:26:02, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 13:60-13:61, 13:63N, 13:73, 13:77-13:78, 13:80, 13:83, 13:86-13:87, 13:90, 13:92, 13:95, 13:106-13:107, 13:109-13:110, 35:46, 35:207, 35:311, 40:137, 44:08, 44:57, 44:60, 46:33, 46:67, 57:01:01:01-57:10, 57:12-57:15, 57:17-57:33, 57:34[w], 57:35-57:44, 57:46-57:50, 57:52-57:66, 57:68, 57:70-57:81, 57:84-57:96, 58:36
67	265 bp 300 bp	**800 bp**	*15:53, 15:183, 15:212, 15:336, 15:345 *15:132	*46:10, **C*16:85**
68[6]	215 bp 380 bp	1070 bp	*15:134 *15:247	**C*05:03**
69	130 bp	1070 bp	*15:57	
70[4]	90 bp 185 bp	1070 bp	*15:208 *15:138, 15:230, 15:241, 15:297	*07:68:01-07:68:03, 07:214, 07:237, 07:262, 18:35, 18:110, 35:66, 40:77, 40:87:01-40:87:02, 40:121, 40:158, 40:222, 40:237, 40:368, 44:150, 48:12, 48:14, 48:26, 48:29
71	290 bp 315 bp 400 bp	1070 bp	*15:53, 15:212, 15:336, 15:347 *15:205 *15:139	**C*01:124, C*16:85**
72[4]	110 bp 200 bp 295 bp 390 bp	1070 bp	*15:226N *15:380N *15:140 *15:201	*35:216N, 39:87N *51:166
73	155 bp	1070 bp	*15:09:01-15:09:02, 15:30:01:01[w]-15:30:01:02[w], 15:42, 15:58[w], 15:73[w], 15:150[w], 15:229, 15:243, 15:252, 15:303[w], 15:324[w], 15:329, 15:361, 15:435	*07:05:01:01-07:06:03, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 07:182N, 07:201N, 07:206-07:207, 07:210, 07:213-07:214, 07:222, 07:249, 07:258, 07:262, 07:264, 07:269-07:270, 07:278, 07:283, 07:287, 07:293, 07:304, 08:20, 08:79, 13:16, 13:20, 13:31[w], 13:48, 13:62, 14:13, 14:53, 27:20, 27:24, 27:153, 27:168, 35:44[w], 38:10, 38:32, 39:35, 39:36[w], 39:107,

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74[4]	75 bp 230 bp	**800 bp**	*15:145, 15:176, 15:411 *15:262N	*35:237, 35:352, 51:228, 52:28
75	280 bp 315 bp 390 bp	1070 bp	*15:146 *15:367, 15:441 *15:201	*51:48, **C*02:83, C*08:24, C*16:90**
76	475 bp	1070 bp	*15:02:01-15:02:11, 15:06, 15:13:01-15:13:02, 15:17:01:01-15:17:06, 15:21:01:01-15:21:01:02, 15:25:01-15:25:03, 15:31, 15:36, 15:44, 15:55, 15:77, 15:88-15:89, 15:106, 15:112, 15:121, 15:128, 15:137, 15:139, 15:144, 15:156, 15:162, 15:168, 15:170, 15:177,	

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77[6,8]	185 bp 230 bp	1070 bp	*15:174 *15:123, 15:220, 15:388	
78[4]	110 bp 385 bp 475 bp	1070 bp	*15:142, 15:429 *15:147 *15:232, 15:369	*07:29, 07:186, 08:01:11, 08:56:01, 08:133, 08:176, 08:180, 13:93, 35:218, 35:256, 37:62, 51:68, 51:176, 57:49, **C*07:02:30** ***46:42** *46:64
79	215 bp 420 bp	**800 bp**	*15:182N *15:148, 15:330	
80[4,5]	85 bp 200 bp 225 bp 340 bp	1070 bp	*15:149N *15:380N *15:263 *15:320	
81[6]	395 bp	1070 bp	*15:11:01-15:11:07, 15:143, 15:148-15:149N, 15:152, 15:209N, 15:215, 15:284, 15:303, 15:305, 15:350, 15:367	
82[4,5]	80 bp 200 bp 245 bp	1070 bp	*15:81 *15:246N *15:277, 15:430	*53:35, 58:47 *35:222, 40:76, **C*05:30, C*06:125**
83[6]	255 bp	1070 bp	*15:159, 15:260	*35:302, 40:79, 41:14, 46:52
84	155 bp 195 bp 235 bp	1070 bp	*15:167 *15:211, 15:400N *15:197:01, 15:215	 **C*03:168** *35:117
85[5]	340 bp 395 bp 420 bp	1070 bp	*15:157 *15:76, 15:101, 15:255 *15:164	 **C*07:335, C*14:62**
86	230 bp 260 bp 400 bp	1070 bp	*15:166 *15:272N *15:193	
87[4]	85 bp 295 bp	1070 bp	*15:71, 15:175, 15:204, 15:225, 15:344, 15:381 *15:169	*18:29, 18:98, 35:50, 35:231, 35:280, 35:323, 37:22, 40:248, 40:282, 40:351, 40:364, 41:12, 41:36, 46:14, 49:03, 49:48, 51:151, 52:51, 54:02, 55:16, 56:35, 57:39, 57:73, 58:41, **C*03:278, C*16:86**
88	240 bp 450 bp	**800 bp**	*15:171 *15:158, 15:240, 15:377Q	**C*14:67** **C*05:80**
89	365 bp 420 bp 445 bp	1070 bp	*15:160, 15:282 *15:94N, 15:294N *15:377Q	**C*03:84, C*03:281, C*07:275**

Lot No.: 8G5 **Lot-specific information**

90[4]	95 bp

Lot No.: 8G5 **Lot-specific information**

[4]HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.
[5]Primer mixes 40, 59, 62, 80, 82 and 85 have a tendency to giving rise to primer oligomer formation.
[6]Primer mixes 2, 5, 15, 30, 36, 55, 68, 77, 81, 83, 91 and 95 may have tendencies of unspecific amplifications.
[7]Primer mix 91 may give rise to a long unspecific amplification product of approximately 800 bp. This should be disregarded when interpreting the B*15 typings.
[8]Primer mixes 23 and 77 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B*15 resolution primer mixes.
[9]In primer mixes 52, 59 and 93 the positive control band may be weaker than for other HLA-B*15 primer mixes.
[10]Primer mix 96 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 430 base pairs.
'w', might be weakly amplified.

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

Visit www.olerup.com for
"Instructions for Use" (IFU)

Lot No.: 8G5

Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	400	290	120	180	385	525	330	105	365	300	140	400
PCR product				390						515		
Length of int.	800	1070	1070	800	1070	1070	1070	1070	1070	1070	800	1070
pos. control[1]												
5'-primer(s)[2]	45	45	463	45	45	355	45	357	2nd I	360	363	45
	5'-ggA 3'	5'-ggA 3'	5'-TgA 3'	5'-ggA 3'	5'-ggA 3'	5'-TCA 3'	5'-ggA 3'	5'-Tgg 3'	5'-CAA 3'	5'-CAC 3'	5'-AgC 3'	5'-ggA 3'
										368		
										5'-gTT 3'		
										583		
										5'-gAC 3'		
3'-primer(s)[3]	272	165	538	1st I	259	3rd I	206	419	527	3rd I	463	272
	5'-Tgg 3'	5'-Tgg 3'	5'-CCA 3'	5'-gAC 3'	5'-gTT 3'	5'-ATC 3'	5'-CCT 3'	5'-Cgg 3'	5'-CCA 3'	5'-ATC 3'	5'-gCT 3'	5'-TgA 3'
	283		545	267				419	527			287
	5'-Tgg 3'		5'-AgA 3'	5'-ATg 3'				5'-CgA 3'	5'-CCA 3'			5'-TCC 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.	395	465	105	120	435	195	395	360	205	190	230	205
PCR product	435	515		190				505	425			305
Length of int.	800	1070	1070	1070	1070	1070	800	1070	1070	800	800	1070
pos. control[1]												
5'-primer(s)[2]	45	368	369	419	45	419	45	379	45	409	821	2nd I
	5'-ggA 3'	5'-gTg 3'	5'-TAC 3'	5'-gTC 3'	5'-ggA 3'	5'-gTC 3'	5'-ggA 3'	5'-ACC 3'	5'-ggA 3'	5'-ggC 3'	5'-gCT 3'	5'-CAA 3'
		419						523		410		
		5'-gTA 3'						5'-CCT 3'		5'-CCA 3'		
3'-primer(s)[3]	272	3rd I	435	499	309	572	266	3rd I	83	559	916	369
	5'-TgC 3'	5'-ATC 3'	5'-TCT 3'	5'-ggA 3'	5'-ATC 3'	5'-gCg 3'	5'-TCC 3'	5'-ATC 3'	5'-TgA 3'	5'-CAg 3'	5'-gAT 3'	5'-CCT 3'
	311			570			278		301			463
	5'-ggT 3'			5'-CCg 3'			5'-TgA 3'		5'-gTC 3'			5'-gCg 3'
												471
												5'-gTT 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	315	230	115	240	255	320	320	275	200	160	165	360
PCR product	385		195			355	395	350	255			435
						405		380	340			
Length of int.	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	800
pos. control[1]												
5'-primer(s)[2]	45	368	404	362	369	479	488	2nd I	2nd I	419	412	45
	5'-ggA 3'	5'-gTC 3'	5'-..g 3'	5'-gAC 3'	5'-TAC 3'	5'-..C 3'	5'-ggg 3'	5'-CAA 3'	5'-CAA 3'	5'-gTC 3'	5'-ATA 3'	5'-ggA 3'
			485			526	560					
			5'-CAA 3'			5'-gTC 3'	5'-CAC 3'					
						560						
						5'-CgA 3'						
3'-primer(s)[3]	193	558	559	559	583	3rd I	3rd I	437	362	538	538	238
	5'-CgT 3'	5'-Agg 3'	5'-CAg 3'	5'-CAg 3'	5'-gTg 3'	5'-ATC 3'	5'-ATC 3'	5'-AAA 3'	5'-TCA 3'	5'-gTC 3'	5'-CCA 3'	5'-CCT 3'
	263							513	420			309
	5'-gTA 3'							5'-TCT 3'	5'-gCT 3'			5'-gTg 3'
								544	505			
								5'-ggT 3'	5'-gCT 3'			
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5 **Lot-specific information**

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	170	225	315	220	465	350	525	515	475	360	320	420
PCR product			385	425		460						
Length of int.	1070	1070	800	1070	1070	1070	1070	1070	1070	800	1070	1070
pos. control[1]												
5'-primer(s)[2]	409	106	45	45	419	420	357	369	409	522	558	463
	5' -ggC 3'	5' -CCA 3'	5' -ggA 3'	5' -ggA 3'	5' -gTC 3'	5' -TTA 3'	5' -Tgg 3'	5' -TAC 3'	5' -ggC 3'	5' -gCT 3'	5' -ggA 3'	5' -TgA 3'
						522			410	527	560	
						5' -gCT 3'			5' -CCA 3'	5' -TgA 3'	5' -CCT 3'	
						539						
						5' -gCT 3'						
3'-primer(s)[3]	538	292	181	97	3rd I	3rd I	3rd I	3rd I	3rd I	3rd I	3rd I	3rd I
	5' -CCg 3'	5' -gTC 3'	5' -gTT 3'	5' -gTg 3'	5' -ATC 3'	5' -ATC 3'	5' -ATC 3'	5' -ATC 3'	5' -ATC 3'	5' -ATC 3'	5' -ATC 3'	5' -ATC 3'
			203	302								
			5' -CTg 3'	5' -ggT 3'								
			257									
			5' -CCT 3'									
			267									
			5' -ATg 3'									
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	135	85	135	200	210	250	175	70	340	175	230	160
PCR product		185	175	345		410	210	260	480		370	
			200				255				420	
Length of int.	1070	1070	1070	800	800	800	1070	1070	1070	1070	800	800
pos. control[1]												
5'-primer(s)[2]	209	463	106	45	419	45	3rd I	25	400	133	45	652
	5' -ggC 3'	5' -TgA 3'	5' -CCA 3'	5' -ggA 3'	5' -gTC 3'	5' -ggA 3'	5' -Agg 3'	5' -CCg 3'	5' -TCT 3'	5' -CCA 3'	5' -ggA 3'	5' -CCg 3'
				3rd I				652	539	145	673	661
				5' -Agg 3'				5' -CCA 3'	5' -gTg 3'	5' -CAA 3'	5' -CCA 3'	5' -ACg 3'
									540		679	
									5' -TgC 3'		5' -ggC 3'	
3'-primer(s)[3]	302	506	200	221	589	127	704	56	3rd I	272	107	774
	5' -ggT 3'	5' -TgT 3'	5' -TCA 3'	5' -ATA 3'	5' -CTT 3'	5' -CTg 3'	5' -CCA 3'	5' -TCg 3'	5' -ATC 3'	5' -Tgg 3'	5' -ACT 3'	5' -ggT 3'
		608	200	723		288	735	872			295	
		5' -gCC 3'	5' -TCA 3'	5' -Tgg 3'		5' -gTg 3'	5' -TCg 3'	5' -TCA 3'			5' -TCA 3'	
			239	727			779				916	
			5' -gCT 3'	5' -CCA 3'			5' -CTA 3'				5' -gAT 3'	
			263	735			787					
			5' -..g 3'	5' -TCg 3'			5' -TCC 3'					
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5 **Lot-specific information**

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	160	105	175	90	405	435	265	215	130	90	290	110
PCR product	205		280	135	470		300	380		185	315	200
				240	520						400	295
				365								390
Length of int.	1070	1070	1070	800	1070	1070	800	1070	1070	1070	1070	1070
pos. control[1]												
5'-primer(s)[2]	106	363	25	45	363	209	45	419	209	463	45	261
	5' -CCg 3'	5' -AgC 3'	5' -CCg 3'	5' -ggA 3'	5' -AAT 3'	5' -ggC 3'	5' -ggA 3'	5' -gTC 3'	5' -ggC 3'	5' -TgA 3'	5' -ggA 3'	5' -AAC 3'
	151		419	679	410	209		668				662
	5' -gCC 3'		5' -gTC 3'	5' -ggC 3'	5' -gCg 3'	5' -ggC 3'		5' -ggT 3'				5' -CCT 3'
				724	479							754
				5' -g.C 3'	5' -..C 3'							5' -ACg 3'
												852
3'-primer(s)[3]												5' -CAA 3'
	272	425	134	115	3rd I	353	142	593	299	510	167	331
	5' -Tgg 3'	5' -CgC 3'	5' -AgT 3'	5' -ggA 3'	5' -ATC 3'	5' -TgA 3'	5' -ggT 3'	5' -CgC 3'	5' -TCA 3'	5' -CAA 3'	5' -ACA 3'	5' -CTA 3'
			554	242		353	177	916		605	189	916
			5' -CCg 3'	5' -CCA 3'		5' -TgA 3'	5' -AAA 3'	5' -gAT 3'		5' -gCT 3'	5' -gCT 3'	5' -gAT 3'
				774		362					277	
				5' -ggT 3'		5' -TCA 3'					5' -ggC 3'	
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	155	75	280	475	185	110	215	85	395	80	255	155
PCR product		230	315		230	385	420	200		200		195
			390			475		225		245		235
								340				
Length of int.	1070	800	1070	1070	1070	1070	800	1070	1070	1070	1070	1070
pos. control[1]												
5'-primer(s)[2]	412	368	662	409	47	97	45	267	45	106	106	363
	5' -ATA 3'	5' -gTA 3'	5' -CCT 3'	5' -ggT 3'	5' -AgT 3'	5' -TCg 3'	5' -ggA 3'	5' -.Ag 3'	5' -ggA 3'	5' -CCA 3'	5' -CCA 3'	5' -AgT 3'
		523	736		463	400		709				404
		5' -CCg 3'	5' -gCA 3'		5' -TgA 3'	5' -TCT 3'		5' -AgT 3'				5' -CCT 3'
			769			410		824				404
			5' -Agg 3'			5' -gCg 3'		5' -TTg 3'				5' -..g 3'
						495		852				446
						5' -CAC 3'		5' -CAA 3'				5' -CgT 3'
3'-primer(s)[3]	527	559	916	3rd I	106	165	93	311	272	146	322	559
	5' -CCT 3'	5' -CAg 3'	5' -gAT 3'	5' -ATC 3'	5' -CAT 3'	5' -Tgg 3'	5' -AAC 3'	5' -ggT 3'	5' -TgT 3'	5' -CCg 3'	5' -gTg 3'	5' -CAg 3'
					605	3rd I	296	916		263		
					5' -gCA 3'	5' -ATC 3'	5' -CTT 3'	5' -gAT 3'		5' -..g 3'		
										312		
										5' -AgT 3'		
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5 **Lot-specific information**

Well No.	85	86	87	88	89	90	91	92	93	94	95
Length of spec.	340	230	85	240	365	95	135	95	255	260	160
PCR product	395	260	295	450	420	195	325	155	295	285	340
	420	400			445				385	325	395
Length of int.	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	1070
pos. control[1]											
5'-primer(s)[2]	45	2nd I	97	45	45	206	45	463	45	2nd I	2nd I
	5' -ggA 3'	5' -CAA 3'	5' -TCC 3'	5' -ggA 3'	5' -ggA 3'	5' -gAC 3'	5' -ggA 3'	5' -TgA 3'	5' -ggA 3'	5' -CAA 3'	5' -CAA 3'
			2nd I			463	365		369	767	3rd I
			5' -CAA 3'			5' -TgA 3'	5' -gAC 3'		5' -TAC 3'	5' -ggg 3'	5' -Agg 3'
							376				
							5' -gCA 3'				
3'-primer(s)[3]	218	394	142	118	242	259	203	514	135	426	502
	5' -gCA 3'	5' -gCT 3'	5' -TgC 3'	5' -gCT 3'	5' -CCT 3'	5' -CTC 3'	5' -TCT 3'	5' -CTg 3'	5' -.Ag 3'	5' -TCC 3'	5' -CTA 3'
	272	426	457	320	247	616	463	515	167	487	559
	5' -TgT 3'	5' -TCC 3'	5' -gTA 3'	5' -AgC 3'	5' -ATg 3'	5' -CgT 3'	5' -gCT 3'	5' -CCC 3'	5' -ACA 3'	5' -CgT 3'	5' -CTC 3'
	296	565		323	295			578	173	916	685
	5' -CTg 3'	5' -CAT 3'		5' -AgA 3'	5' -TCA 3'			5' -TgT 3'	5' -TCC 3'	5' -gAT 3'	5' -ggT 3'
				337	320				261		
				5' -CTT 3'	5' -AgC 3'				5' -gTA 3'		
									585		
									5' -AgT 3'		
Well No.	85	86	87	88	89	90	91	92	93	94	95

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

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

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

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*15 SSP subtyping kit[2]

					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:	201781501	201558702	201558703	201558704	201558705	201558706	201558707	201558708	201558709	201558710	201558711	201558712	201558713	201558714	201558715	201558716
	IHWC cell line[1]		B*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	+	-	+	-	-	-	-	-	+	+	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*15 SSP subtyping kit[2]

					Well															
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
				Prod. No.:	201558717	201558718	201558719	201558720	201558721	201897022	201558723	201781524	201558725	201558726	201897027	201558728	201558729	201781530	201558731	201558732
	IHWC cell line[1]		B*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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"Instructions for Use" (IFU)

Lot No.: 8G5 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*15 SSP subtyping kit[2]

					Well															
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
				Prod. No.:	201558733	201558734	201558735	201558736	201558737	201558738	201558739	201558740	201558741	201781542	201558743	201897044	201897045	201781546	201781547	201558748
	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	-	-	-	-	-	w	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	+	-	-	+	-	-	+	+	+	+	+
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	+	-	-	+	-	-	+	+	+	+	+
43	9076	T7526	*46:01		-	-	-	-	-	+	-	-	+	-	-	+	+	+	+	+
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*15 SSP subtyping kit[2]

					Well															
					49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				Prod. No.:	201558749	201558750	201558751	201558752	201558753	201558754	201558755	201558756	201781557	201781558	201781559	201558760	201558761	201558762	201781563	201781564
	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	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-

CE 0088

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 8G5 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*15 SSP subtyping kit[2]

					Well															
					65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				Prod. No.:	201781565	201781566	201558767	201558768	201558769	201558770	201558771	201781572	201558773	201558774	201781575	201558776	201781577	201781578	201781579	201781580
	IHWC cell line[1]		B*																	
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.516-24/04 – including *Taq* polymerase, IFU-01
101.516-24u/04u – without *Taq* polymerase, IFU-02

Visit www.olerup.com for
"Instructions for Use" (IFU)

Lot No.: 8G5 **Lot-specific information**

CELL LINE VALIDATION SHEET

HLA-B*15 SSP subtyping kit[2]

					Well														
					81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
				Prod. No.:	201558781	201781582	201781583	201897084	201558785	201558786	201558787	201781588	201781589	201558790	201558791	201558792	201558793	201558794	201558795
	IHWC cell line[1]		B*																
1	9001	SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01	*27:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lot No.: 8G5 **Lot-specific information**

[1]The provided cell line HLA specificities are retrieved from the http://www.ihwg.org/hla web site. The specificity of an individual cell line may thus be subject to change.

[2]The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 4, 9, 10, 18, 24 to 27, 30 to 34, 36, 39, 49 to 54, 56 to 59, 61 to 65, 67 to 72, 74, 75, 78 to 80, 82 to 89 and 91 to 95 were available. The specificities of the primers in primer solutions 9, 10, 18, 24 to 27, 30, 31, 33, 34, 36, 49, 53, 59, 61, 63 to 65, 67, 68, 70 to 72, 78, 82, 85, 87, 91 and 93 to 95 were tested by separately adding one or two additional 5'-primers, respectively one to three additional 3'-primers. In primer solutions 4, 32, 39, 50 to 52, 54, 56, 62, 69, 79, 83, 86, 88, 89 and 92 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 57, 58, 74, 75, 80 and 84 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 1, 3, 12, 13, 19, 21, 24, 25, 33, 36, 55, 59, 63, 64, 67, 68, 70 to 72, 77, 82, 85, 87, 90, 91, 93 to 95 one or more 3'-primers were not possible to test. In primer solutions 10, 14, 20, 22, 27, 30, 31, 42, 45 to 47, 59 to 61, 64, 65, 72, 77, 91 and 94 one, two or three 5'-primers were not possible to test. Additional primers in primer solutions 16, 40, 42, 66, 77 and 90 were tested by separately adding one additional 5'-primer or one additional 3'-primer.

Lot No.: 8G5 **Lot-specific information**

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