

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information
Olerup SSP® DPB1

Product number:	101.311-24/04 – including <i>Taq</i> pol. 101.311-24u/04u – without <i>Taq</i> pol.
Lot number:	9E3
Expiry date:	2019-10-01
Number of tests:	24 tests – Product No. 101.311-24/24u 4 tests – Product No. 101.311-04/04u
Number of wells per test:	95+1
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 9E3.

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

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® DPB1 Lot (9D9)

The DPB1 kit is updated to enable separation of:

- Confirmed DPB1 alleles as listed in the IMGT/HLA database¹
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

The format of the Worksheet has been changed.

¹As described in section Uniquely Identified Alleles.

The DPB1 specificity and interpretation tables have been updated for the DPB1 alleles described since the previous *Olerup SSP®* DPB1 lot was made (**Lot No. 9D9**). The kit design is based on IMGT/HLA database 3.26.0.

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

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

Well	5'-primer	3'-primer	rationale
3	Modified	-	5'-primer modified for increased yield.
12	Modified, added	-	5'-primer modified for improved HLA-specific amplification, 5'-primer added for the DPB1*02:01:03 allele.
40	Modified	-	5'-primer modified for increased yield.
44	Added	Added	Primer pair added for the DPB1*38:01 allele.
51	Added	-	5'-primer added for the DPB1*570:01N allele.
52	Added	-	5'-primers added for the DPB1*511:01 and DPB1*570:01N alleles.
53	-	Added	3'-primer added for the DPB1*501:01 allele.
54	-	Added	3'-primers added for the DPB1*454:01 and DPB1*505:01 alleles.
55	Added	-	5'-primer added for the DPB1*511:01 allele.
59	Modified	Modified	5'- and 3'-primer modified for increased yield.
63	-	Modified, added	Positive control primer pair exchanged, 3'-primers modified for improved HLA-specific amplification, 3'-primer added for the DPB1*539:01 allele.
64	-	Added	3'-primer added for the DPB1*475:01 allele.
65	-	Added	3'-primer added for the DPB1*475:01 allele.
66	-	Added	Positive control primer pair exchanged, 3'-primer added for the DPB1*539:01 allele.
67	-	Added	3'-primer added for the DPB1*501:01 allele.
69	Moved, modified	-	5'-primer moved for decreased tendency of primer oligomer formation, 5'-primer modified for improved HLA-specific amplification, positive control primer pair exchanged.
70	Modified, added	-	5'-primer modified for improved HLA-specific amplification, 5'-primer added for the DPB1*551:01N allele.
73	-	Added	3'-primer added for the DPB1*512:01 allele.
76	Added	-	5'-primer added for the DPB1*423:01:02 allele.
77	Added	-	5'-primer added for the DPB1*488:01 allele.
78	Added	-	5'-primer added for the DPB1*485:01 allele.
79	Added	-	5'-primer added for the DPB1*551:01N allele.
80	Added	-	5'-primer added for the DPB1*488:01 allele.
85	-	Added	Positive control primer pair exchanged, 3'-primers added for the DPB1*572:01 and DPB1*585:01 alleles.
86	Added	-	5'-primer added from well 69, 5'-primer added for the DPB1*485:01 allele.
89	-	Modified	3'-primer modified for improved HLA-specific amplification.
90	-	Added	3'-primer added for the DPB1*571:01 allele.
93	Added	-	5'-primer added for the DPB1*598:01N allele.
94	-	Added	3'-primer added for the DPB1*454:01 allele.

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

Change in revision R01 compared to R00:

1. Primer mix 10 amplifies the DPB1*02:01:04, 02:01:09, 46:01:02, 71:01:02 and 366:01 alleles weakly. Primer mix 12 does not amplify the DPB1*02:01:04 and 46:01:02 alleles, and amplifies the 02:01:09, 366:01 and 410:01 alleles weakly. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. Primer mixes 15, 27 and 77 may have tendencies of unspecific amplifications. A footnote has been added in the Specificity Table.

Change in revision R03 compared to R02:

1. Primer mix 53 does not amplify the *163:01 allele. This has been corrected in the Specificity and Interpretation Tables.

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

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'-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.

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

PRODUCT DESCRIPTION

DPB1 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DPB1*01:01 to DPB1*612:01 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 'DPB1' in silver/gray ink.

Well No. 1 is marked with the Lot No. '9E3'.

Wells 1 to 95 – DPB1 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 heat-sealed with a PCR-compatible foil.

INTERPRETATION

Only DPB1 alleles will be amplified by the DPB1 typing kit. Thus, the interpretation of DPB1 typings is not influenced by the DPB2 gene or other HLA class II genes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the DPB1 alleles, i.e. **DPB1*01:01 to DPB1*612:01 alleles**, recognized by the HLA Nomenclature Committee in October 2016^{1,2} will be amplified by the primers in the DPB1 subtyping kit.

The DPB1 kit enables separation of the confirmed DPB1 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for DPB1 alleles is listed below.

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

The DPB1 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The following DPB1 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
DPB1*32:01, 339:01	42	DPB1*153:01, 321:01	53
DPB1*78:01, 405:01	32	DPB1*237:01, 419:01	85
DPB1*120:01N, 453:01, 521:01	44	DPB1*250:01, 268:01	71

¹DPB1 alleles listed on the IMGT/HLA web page 2016-October-14, release 3.26.0, 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>.

RESOLUTION IN HOMO- AND HETEROZYGOTES

Results file with resolution in DPB1 homo- and heterozygotes is available upon request.

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
DPB1*01:01:01	Confirmed	DPB1*04:01:17	Unconfirmed	DPB1*14:01:02	Unconfirmed	DPB1*55:01	Confirmed
DPB1*01:01:02	Confirmed	DPB1*04:01:18	Unconfirmed	DPB1*14:01:03	Unconfirmed	DPB1*56:01	Unconfirmed
DPB1*01:01:03	Unconfirmed	DPB1*04:01:19	Unconfirmed	DPB1*15:01:01	Confirmed	DPB1*57:01	Unconfirmed
DPB1*01:01:04	Unconfirmed	DPB1*04:01:20	Unconfirmed	DPB1*15:01:02	Unconfirmed	DPB1*58:01	Confirmed
DPB1*01:01:05	Unconfirmed	DPB1*04:01:21	Unconfirmed	DPB1*16:01:01	Confirmed	DPB1*59:01	Confirmed
DPB1*01:01:06	Unconfirmed	DPB1*04:01:22	Confirmed	DPB1*16:01:02	Unconfirmed	DPB1*60:01	Confirmed
DPB1*02:01:02	Confirmed	DPB1*04:01:23	Unconfirmed	DPB1*17:01	Confirmed	DPB1*61:01N	Confirmed
DPB1*02:01:03	Unconfirmed	DPB1*04:01:24	Confirmed	DPB1*18:01	Confirmed	DPB1*62:01	Confirmed
DPB1*02:01:04	Confirmed	DPB1*04:01:25	Unconfirmed	DPB1*19:01	Confirmed	DPB1*63:01	Unconfirmed
DPB1*02:01:05	Unconfirmed	DPB1*04:01:26	Unconfirmed	DPB1*20:01:01	Confirmed	DPB1*64:01N	Unconfirmed
DPB1*02:01:06	Unconfirmed	DPB1*04:01:27	Unconfirmed	DPB1*20:01:02	Unconfirmed	DPB1*65:01:01	Unconfirmed
DPB1*02:01:07	Unconfirmed	DPB1*04:01:28	Unconfirmed	DPB1*20:01:03	Unconfirmed	DPB1*65:01:02	Unconfirmed
DPB1*02:01:08	Confirmed	DPB1*04:01:29	Confirmed	DPB1*21:01	Confirmed	DPB1*66:01	Unconfirmed
DPB1*02:01:09	Confirmed	DPB1*04:01:30	Unconfirmed	DPB1*22:01	Confirmed	DPB1*67:01	Unconfirmed
DPB1*02:01:10	Unconfirmed	DPB1*04:01:31	Unconfirmed	DPB1*23:01:01	Confirmed	DPB1*68:01	Confirmed
DPB1*02:01:11	Confirmed	DPB1*04:01:32	Confirmed	DPB1*23:01:02	Unconfirmed	DPB1*69:01	Unconfirmed
DPB1*02:01:12	Confirmed	DPB1*04:02:01:01	Confirmed	DPB1*24:01	Unconfirmed	DPB1*70:01	Unconfirmed
DPB1*02:01:13	Confirmed	DPB1*04:02:01:02	Unconfirmed	DPB1*25:01	Unconfirmed	DPB1*71:01:01	Confirmed
DPB1*02:01:14	Unconfirmed	DPB1*04:02:02	Unconfirmed	DPB1*26:01:01	Unconfirmed	DPB1*71:01:02	Unconfirmed
DPB1*02:01:15	Confirmed	DPB1*04:02:03	Confirmed	DPB1*26:01:02	Confirmed	DPB1*72:01	Unconfirmed
DPB1*02:01:16	Unconfirmed	DPB1*04:02:04	Unconfirmed	DPB1*26:01:03	Unconfirmed	DPB1*73:01	Unconfirmed
DPB1*02:01:17	Unconfirmed	DPB1*04:02:05	Confirmed	DPB1*27:01	Confirmed	DPB1*74:01	Unconfirmed
DPB1*02:01:18	Confirmed	DPB1*04:02:06	Unconfirmed	DPB1*28:01	Confirmed	DPB1*75:01	Unconfirmed
DPB1*02:01:19	Unconfirmed	DPB1*04:02:07	Confirmed	DPB1*29:01	Confirmed	DPB1*76:01	Unconfirmed
DPB1*02:02	Confirmed	DPB1*04:02:08	Unconfirmed	DPB1*30:01	Confirmed	DPB1*77:01	Unconfirmed
DPB1*03:01:01	Confirmed	DPB1*05:01:01	Confirmed	DPB1*31:01	Confirmed	DPB1*78:01	Unconfirmed
DPB1*03:01:02	Unconfirmed	DPB1*05:01:02	Unconfirmed	DPB1*32:01	Confirmed	DPB1*79:01	Unconfirmed
DPB1*03:01:03	Unconfirmed	DPB1*05:01:03	Confirmed	DPB1*33:01	Confirmed	DPB1*80:01	Confirmed
DPB1*03:01:04	Confirmed	DPB1*05:01:04	Unconfirmed	DPB1*34:01	Confirmed	DPB1*81:01	Confirmed
DPB1*03:01:05	Unconfirmed	DPB1*05:01:05	Unconfirmed	DPB1*35:01:01	Confirmed	DPB1*82:01	Unconfirmed
DPB1*03:01:06	Unconfirmed	DPB1*05:01:06	Unconfirmed	DPB1*35:01:02	Unconfirmed	DPB1*83:01	Unconfirmed
DPB1*03:01:07	Unconfirmed	DPB1*05:01:07	Unconfirmed	DPB1*36:01	Confirmed	DPB1*84:01	Unconfirmed
DPB1*03:01:08	Unconfirmed	DPB1*06:01:01	Confirmed	DPB1*37:01	Unconfirmed	DPB1*85:01	Confirmed
DPB1*04:01:01:01	Confirmed	DPB1*06:01:02	Unconfirmed	DPB1*38:01	Unconfirmed	DPB1*86:01	Confirmed
DPB1*04:01:01:02	Unconfirmed	DPB1*06:01:03	Unconfirmed	DPB1*39:01	Confirmed	DPB1*87:01	Unconfirmed
DPB1*04:01:02	Unconfirmed	DPB1*08:01	Unconfirmed	DPB1*40:01	Confirmed	DPB1*88:01	Confirmed
DPB1*04:01:03	Confirmed	DPB1*09:01:01	Confirmed	DPB1*41:01:01	Confirmed	DPB1*89:01	Confirmed
DPB1*04:01:04	Confirmed	DPB1*09:01:02	Confirmed	DPB1*41:01:02	Unconfirmed	DPB1*90:01:01	Unconfirmed
DPB1*04:01:05	Unconfirmed	DPB1*09:01:03	Unconfirmed	DPB1*44:01	Confirmed	DPB1*90:01:02	Confirmed
DPB1*04:01:06	Confirmed	DPB1*09:01:04	Confirmed	DPB1*45:01	Confirmed	DPB1*91:01	Unconfirmed
DPB1*04:01:07	Confirmed	DPB1*10:01:01	Confirmed	DPB1*46:01:01	Confirmed	DPB1*92:01	Unconfirmed
DPB1*04:01:08	Confirmed	DPB1*10:01:02	Unconfirmed	DPB1*46:01:02	Unconfirmed	DPB1*93:01	Unconfirmed
DPB1*04:01:09	Confirmed	DPB1*10:01:03	Unconfirmed	DPB1*47:01	Confirmed	DPB1*94:01	Unconfirmed
DPB1*04:01:10	Confirmed	DPB1*11:01:01	Confirmed	DPB1*48:01	Unconfirmed	DPB1*95:01	Unconfirmed
DPB1*04:01:11	Confirmed	DPB1*11:01:02	Unconfirmed	DPB1*49:01	Unconfirmed	DPB1*96:01	Unconfirmed
DPB1*04:01:12	Confirmed	DPB1*11:01:03	Confirmed	DPB1*50:01	Confirmed	DPB1*97:01	Unconfirmed
DPB1*04:01:13	Confirmed	DPB1*11:01:04	Unconfirmed	DPB1*51:01	Confirmed	DPB1*98:01	Confirmed
DPB1*04:01:14	Confirmed	DPB1*13:01:01	Confirmed	DPB1*52:01	Unconfirmed	DPB1*99:01	Unconfirmed
DPB1*04:01:15	Confirmed	DPB1*13:01:02	Confirmed	DPB1*53:01	Unconfirmed	DPB1*100:01	Unconfirmed
DPB1*04:01:16	Confirmed	DPB1*14:01:01	Confirmed	DPB1*54:01	Unconfirmed	DPB1*101:01	Unconfirmed

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
DPB1*102:01	Unconfirmed	DPB1*152:01	Confirmed	DPB1*201:01	Confirmed	DPB1*250:01	Unconfirmed
DPB1*103:01	Unconfirmed	DPB1*153:01	Confirmed	DPB1*202:01	Unconfirmed	DPB1*251:01	Unconfirmed
DPB1*104:01	Confirmed	DPB1*154:01N	Confirmed	DPB1*203:01	Confirmed	DPB1*252:01	Unconfirmed
DPB1*105:01	Unconfirmed	DPB1*155:01:01	Confirmed	DPB1*204:01	Confirmed	DPB1*253:01	Confirmed
DPB1*106:01	Unconfirmed	DPB1*155:01:02	Confirmed	DPB1*205:01	Unconfirmed	DPB1*254:01	Unconfirmed
DPB1*107:01	Unconfirmed	DPB1*156:01	Confirmed	DPB1*206:01	Confirmed	DPB1*255:01	Unconfirmed
DPB1*108:01	Unconfirmed	DPB1*157:01	Confirmed	DPB1*207:01	Confirmed	DPB1*256:01	Unconfirmed
DPB1*109:01	Unconfirmed	DPB1*158:01	Confirmed	DPB1*208:01	Confirmed	DPB1*257:01	Confirmed
DPB1*110:01	Unconfirmed	DPB1*159:01N	Unconfirmed	DPB1*209:01	Confirmed	DPB1*258:01	Unconfirmed
DPB1*111:01	Unconfirmed	DPB1*160:01	Unconfirmed	DPB1*210:01	Confirmed	DPB1*259:01	Unconfirmed
DPB1*112:01	Unconfirmed	DPB1*161:01N	Confirmed	DPB1*211:01	Confirmed	DPB1*260:01	Unconfirmed
DPB1*113:01	Unconfirmed	DPB1*162:01	Unconfirmed	DPB1*212:01	Confirmed	DPB1*261:01	Unconfirmed
DPB1*114:01	Unconfirmed	DPB1*163:01	Unconfirmed	DPB1*213:01	Unconfirmed	DPB1*262:01	Unconfirmed
DPB1*115:01	Unconfirmed	DPB1*164:01	Unconfirmed	DPB1*214:01	Confirmed	DPB1*263:01	Unconfirmed
DPB1*116:01	Unconfirmed	DPB1*165:01	Confirmed	DPB1*215:01	Confirmed	DPB1*264:01	Unconfirmed
DPB1*117:01	Unconfirmed	DPB1*166:01	Confirmed	DPB1*216:01N	Unconfirmed	DPB1*265:01	Confirmed
DPB1*118:01	Unconfirmed	DPB1*167:01	Unconfirmed	DPB1*217:01	Unconfirmed	DPB1*266:01	Unconfirmed
DPB1*119:01	Unconfirmed	DPB1*168:01	Unconfirmed	DPB1*218:01N	Confirmed	DPB1*267:01	Unconfirmed
DPB1*120:01N	Unconfirmed	DPB1*169:01	Unconfirmed	DPB1*219:01	Unconfirmed	DPB1*268:01	Unconfirmed
DPB1*121:01	Unconfirmed	DPB1*170:01	Confirmed	DPB1*220:01	Confirmed	DPB1*269:01	Unconfirmed
DPB1*122:01	Unconfirmed	DPB1*171:01	Unconfirmed	DPB1*221:01	Confirmed	DPB1*270:01	Unconfirmed
DPB1*123:01	Unconfirmed	DPB1*172:01	Confirmed	DPB1*222:01	Confirmed	DPB1*271:01	Unconfirmed
DPB1*124:01	Confirmed	DPB1*173:01	Confirmed	DPB1*223:01	Unconfirmed	DPB1*272:01	Unconfirmed
DPB1*125:01	Unconfirmed	DPB1*174:01	Unconfirmed	DPB1*224:01	Confirmed	DPB1*273:01	Unconfirmed
DPB1*126:01	Unconfirmed	DPB1*175:01	Unconfirmed	DPB1*225:01	Confirmed	DPB1*274:01	Unconfirmed
DPB1*127:01	Unconfirmed	DPB1*176:01	Unconfirmed	DPB1*226:01	Unconfirmed	DPB1*275:01	Unconfirmed
DPB1*128:01	Unconfirmed	DPB1*177:01	Confirmed	DPB1*227:01	Unconfirmed	DPB1*276:01	Unconfirmed
DPB1*129:01	Unconfirmed	DPB1*178:01	Confirmed	DPB1*228:01	Unconfirmed	DPB1*277:01	Unconfirmed
DPB1*130:01	Confirmed	DPB1*179:01	Unconfirmed	DPB1*229:01	Unconfirmed	DPB1*278:01	Unconfirmed
DPB1*131:01	Confirmed	DPB1*180:01	Confirmed	DPB1*230:01	Unconfirmed	DPB1*279:01	Unconfirmed
DPB1*132:01	Unconfirmed	DPB1*181:01	Confirmed	DPB1*231:01	Unconfirmed	DPB1*280:01	Unconfirmed
DPB1*133:01	Confirmed	DPB1*182:01	Confirmed	DPB1*232:01	Unconfirmed	DPB1*281:01	Unconfirmed
DPB1*134:01	Unconfirmed	DPB1*183:01	Unconfirmed	DPB1*233:01	Confirmed	DPB1*282:01	Confirmed
DPB1*135:01	Unconfirmed	DPB1*184:01	Confirmed	DPB1*234:01	Unconfirmed	DPB1*283:01	Unconfirmed
DPB1*136:01	Confirmed	DPB1*185:01	Confirmed	DPB1*235:01	Unconfirmed	DPB1*284:01	Unconfirmed
DPB1*137:01	Unconfirmed	DPB1*186:01	Confirmed	DPB1*236:01:01	Confirmed	DPB1*285:01	Unconfirmed
DPB1*138:01	Unconfirmed	DPB1*187:01	Unconfirmed	DPB1*236:01:02	Unconfirmed	DPB1*286:01	Unconfirmed
DPB1*139:01	Unconfirmed	DPB1*188:01	Unconfirmed	DPB1*237:01	Unconfirmed	DPB1*287:01	Unconfirmed
DPB1*140:01	Unconfirmed	DPB1*189:01	Confirmed	DPB1*238:01	Unconfirmed	DPB1*288:01	Unconfirmed
DPB1*141:01	Unconfirmed	DPB1*190:01	Confirmed	DPB1*239:01	Unconfirmed	DPB1*289:01	Unconfirmed
DPB1*142:01	Unconfirmed	DPB1*191:01	Confirmed	DPB1*240:01	Unconfirmed	DPB1*290:01	Unconfirmed
DPB1*143:01	Confirmed	DPB1*192:01	Confirmed	DPB1*241:01	Unconfirmed	DPB1*291:01	Unconfirmed
DPB1*144:01	Confirmed	DPB1*193:01	Confirmed	DPB1*242:01	Unconfirmed	DPB1*292:01	Unconfirmed
DPB1*145:01	Confirmed	DPB1*194:01	Confirmed	DPB1*243:01	Unconfirmed	DPB1*293:01	Unconfirmed
DPB1*146:01	Confirmed	DPB1*195:01	Confirmed	DPB1*244:01	Unconfirmed	DPB1*294:01	Unconfirmed
DPB1*147:01	Unconfirmed	DPB1*196:01	Unconfirmed	DPB1*245:01	Confirmed	DPB1*295:01	Unconfirmed
DPB1*148:01	Unconfirmed	DPB1*197:01	Unconfirmed	DPB1*246:01	Unconfirmed	DPB1*296:01	Confirmed
DPB1*149:01	Confirmed	DPB1*198:01	Confirmed	DPB1*247:01	Unconfirmed	DPB1*297:01	Unconfirmed
DPB1*150:01	Confirmed	DPB1*199:01	Confirmed	DPB1*248:01	Unconfirmed	DPB1*298:01	Unconfirmed
DPB1*151:01	Confirmed	DPB1*200:01	Confirmed	DPB1*249:01	Unconfirmed	DPB1*299:01	Unconfirmed

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

Allele	Status¹	Allele	Status¹	Allele	Status¹	Allele	Status¹
DPB1*300:01	Unconfirmed	DPB1*349:01	Confirmed	DPB1*398:01	Confirmed	DPB1*447:01	Unconfirmed
DPB1*301:01	Confirmed	DPB1*350:01	Confirmed	DPB1*399:01	Unconfirmed	DPB1*448:01	Confirmed
DPB1*302:01	Unconfirmed	DPB1*351:01	Unconfirmed	DPB1*400:01	Unconfirmed	DPB1*449:01	Unconfirmed
DPB1*303:01	Confirmed	DPB1*352:01	Unconfirmed	DPB1*401:01N	Unconfirmed	DPB1*450:01N	Unconfirmed
DPB1*304:01	Confirmed	DPB1*353:01	Unconfirmed	DPB1*402:01	Unconfirmed	DPB1*451:01	Unconfirmed
DPB1*305:01	Unconfirmed	DPB1*354:01:01	Unconfirmed	DPB1*403:01N	Unconfirmed	DPB1*452:01	Confirmed
DPB1*306:01	Confirmed	DPB1*354:01:02	Confirmed	DPB1*404:01	Confirmed	DPB1*453:01	Unconfirmed
DPB1*307:01	Unconfirmed	DPB1*355:01	Confirmed	DPB1*405:01	Unconfirmed	DPB1*454:01	Confirmed
DPB1*308:01	Unconfirmed	DPB1*356:01	Unconfirmed	DPB1*406:01	Unconfirmed	DPB1*455:01N	Unconfirmed
DPB1*309:01	Confirmed	DPB1*357:01N	Confirmed	DPB1*407:01	Unconfirmed	DPB1*456:01	Unconfirmed
DPB1*310:01	Unconfirmed	DPB1*358:01	Unconfirmed	DPB1*408:01	Unconfirmed	DPB1*457:01	Unconfirmed
DPB1*311:01	Confirmed	DPB1*359:01	Confirmed	DPB1*409:01	Unconfirmed	DPB1*458:01	Confirmed
DPB1*312:01	Confirmed	DPB1*360:01	Confirmed	DPB1*410:01	Unconfirmed	DPB1*459:01	Unconfirmed
DPB1*313:01	Confirmed	DPB1*361:01	Unconfirmed	DPB1*411:01	Unconfirmed	DPB1*460:01	Unconfirmed
DPB1*314:01	Unconfirmed	DPB1*362:01	Unconfirmed	DPB1*412:01	Confirmed	DPB1*461:01	Unconfirmed
DPB1*315:01	Confirmed	DPB1*363:01	Unconfirmed	DPB1*413:01	Confirmed	DPB1*462:01	Unconfirmed
DPB1*316:01	Unconfirmed	DPB1*364:01	Unconfirmed	DPB1*414:01	Unconfirmed	DPB1*463:01	Unconfirmed
DPB1*317:01	Unconfirmed	DPB1*365:01	Confirmed	DPB1*415:01	Unconfirmed	DPB1*464:01	Unconfirmed
DPB1*318:01	Confirmed	DPB1*366:01	Unconfirmed	DPB1*416:01	Unconfirmed	DPB1*465:01	Unconfirmed
DPB1*319:01	Confirmed	DPB1*367:01	Unconfirmed	DPB1*417:01	Unconfirmed	DPB1*466:01	Unconfirmed
DPB1*320:01	Unconfirmed	DPB1*368:01	Unconfirmed	DPB1*418:01	Confirmed	DPB1*467:01	Confirmed
DPB1*321:01	Confirmed	DPB1*369:01	Confirmed	DPB1*419:01	Unconfirmed	DPB1*468:01	Unconfirmed
DPB1*322:01	Unconfirmed	DPB1*370:01	Confirmed	DPB1*420:01	Unconfirmed	DPB1*469:01	Unconfirmed
DPB1*323:01	Unconfirmed	DPB1*371:01	Unconfirmed	DPB1*421:01	Unconfirmed	DPB1*470:01	Confirmed
DPB1*324:01	Unconfirmed	DPB1*372:01	Unconfirmed	DPB1*422:01	Confirmed	DPB1*471:01	Unconfirmed
DPB1*325:01	Unconfirmed	DPB1*373:01	Unconfirmed	DPB1*423:01:01	Confirmed	DPB1*472:01	Unconfirmed
DPB1*326:01	Unconfirmed	DPB1*374:01	Confirmed	DPB1*423:01:02	Unconfirmed	DPB1*473:01	Unconfirmed
DPB1*327:01	Confirmed	DPB1*375:01	Confirmed	DPB1*424:01	Confirmed	DPB1*474:01	Unconfirmed
DPB1*328:01N	Unconfirmed	DPB1*376:01	Unconfirmed	DPB1*425:01	Unconfirmed	DPB1*475:01	Confirmed
DPB1*329:01	Confirmed	DPB1*377:01	Confirmed	DPB1*426:01	Unconfirmed	DPB1*476:01	Confirmed
DPB1*330:01	Unconfirmed	DPB1*378:01	Unconfirmed	DPB1*427:01	Unconfirmed	DPB1*477:01	Unconfirmed
DPB1*331:01	Unconfirmed	DPB1*379:01	Unconfirmed	DPB1*428:01	Unconfirmed	DPB1*478:01	Unconfirmed
DPB1*332:01	Unconfirmed	DPB1*380:01	Confirmed	DPB1*429:01	Unconfirmed	DPB1*479:01	Unconfirmed
DPB1*333:01	Confirmed	DPB1*381:01	Unconfirmed	DPB1*430:01	Unconfirmed	DPB1*480:01	Unconfirmed
DPB1*334:01	Confirmed	DPB1*382:01N	Confirmed	DPB1*431:01	Unconfirmed	DPB1*481:01	Unconfirmed
DPB1*335:01	Unconfirmed	DPB1*383:01	Confirmed	DPB1*432:01	Unconfirmed	DPB1*482:01	Confirmed
DPB1*336:01	Unconfirmed	DPB1*384:01	Confirmed	DPB1*433:01	Confirmed	DPB1*483:01	Unconfirmed
DPB1*337:01	Unconfirmed	DPB1*385:01	Confirmed	DPB1*434:01	Unconfirmed	DPB1*484:01	Confirmed
DPB1*338:01	Confirmed	DPB1*386:01	Unconfirmed	DPB1*435:01	Unconfirmed	DPB1*485:01	Confirmed
DPB1*339:01	Unconfirmed	DPB1*387:01	Unconfirmed	DPB1*436:01	Unconfirmed	DPB1*486:01	Unconfirmed
DPB1*340:01	Confirmed	DPB1*388:01	Unconfirmed	DPB1*437:01	Confirmed	DPB1*487:01	Unconfirmed
DPB1*341:01	Unconfirmed	DPB1*389:01	Unconfirmed	DPB1*438:01	Unconfirmed	DPB1*488:01	Confirmed
DPB1*342:01	Unconfirmed	DPB1*390:01	Confirmed	DPB1*439:01	Unconfirmed	DPB1*489:01	Confirmed
DPB1*343:01	Unconfirmed	DPB1*391:01	Confirmed	DPB1*440:01	Confirmed	DPB1*490:01	Unconfirmed
DPB1*344:01	Unconfirmed	DPB1*392:01	Confirmed	DPB1*441:01	Confirmed	DPB1*491:01	Unconfirmed
DPB1*345:01	Unconfirmed	DPB1*393:01	Confirmed	DPB1*442:01	Unconfirmed	DPB1*492:01	Unconfirmed
DPB1*346:01	Unconfirmed	DPB1*394:01	Confirmed	DPB1*443:01	Unconfirmed	DPB1*493:01	Confirmed
DPB1*347:01	Unconfirmed	DPB1*395:01	Unconfirmed	DPB1*444:01	Unconfirmed	DPB1*494:01	Unconfirmed
DPB1*348:01:01	Unconfirmed	DPB1*396:01	Confirmed	DPB1*445:01	Confirmed	DPB1*495:01	Confirmed
DPB1*348:01:02	Unconfirmed	DPB1*397:01	Unconfirmed	DPB1*446:01	Unconfirmed	DPB1*496:01	Unconfirmed

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
DPB1*497:01	Unconfirmed	DPB1*527:01	Unconfirmed	DPB1*557:01	Unconfirmed	DPB1*587:01	Unconfirmed
DPB1*498:01	Unconfirmed	DPB1*528:01	Unconfirmed	DPB1*558:01	Unconfirmed	DPB1*588:01	Unconfirmed
DPB1*499:01	Unconfirmed	DPB1*529:01	Unconfirmed	DPB1*559:01	Unconfirmed	DPB1*589:01	Unconfirmed
DPB1*500:01	Unconfirmed	DPB1*530:01	Confirmed	DPB1*560:01	Unconfirmed	DPB1*590:01	Unconfirmed
DPB1*501:01	Confirmed	DPB1*531:01	Confirmed	DPB1*561:01	Unconfirmed	DPB1*591:01	Unconfirmed
DPB1*502:01	Unconfirmed	DPB1*532:01	Unconfirmed	DPB1*562:01	Unconfirmed	DPB1*592:01	Unconfirmed
DPB1*503:01	Confirmed	DPB1*533:01	Unconfirmed	DPB1*563:01	Unconfirmed	DPB1*593:01	Unconfirmed
DPB1*504:01	Unconfirmed	DPB1*534:01	Unconfirmed	DPB1*564:01	Unconfirmed	DPB1*594:01	Unconfirmed
DPB1*505:01	Confirmed	DPB1*535:01	Unconfirmed	DPB1*565:01	Unconfirmed	DPB1*595:01	Unconfirmed
DPB1*506:01	Unconfirmed	DPB1*536:01	Unconfirmed	DPB1*566:01	Unconfirmed	DPB1*596:01	Unconfirmed
DPB1*507:01N	Confirmed	DPB1*537:01	Unconfirmed	DPB1*567:01	Unconfirmed	DPB1*597:01	Unconfirmed
DPB1*508:01	Unconfirmed	DPB1*538:01	Unconfirmed	DPB1*568:01	Unconfirmed	DPB1*598:01N	Unconfirmed
DPB1*509:01	Unconfirmed	DPB1*539:01	Confirmed	DPB1*569:01	Unconfirmed	DPB1*599:01	Unconfirmed
DPB1*510:01	Unconfirmed	DPB1*540:01	Unconfirmed	DPB1*570:01N	Unconfirmed	DPB1*600:01	Unconfirmed
DPB1*511:01	Confirmed	DPB1*541:01	Unconfirmed	DPB1*571:01	Unconfirmed	DPB1*601:01	Unconfirmed
DPB1*512:01	Confirmed	DPB1*542:01	Unconfirmed	DPB1*572:01	Unconfirmed	DPB1*602:01	Unconfirmed
DPB1*513:01	Unconfirmed	DPB1*543:01	Unconfirmed	DPB1*573:01	Unconfirmed	DPB1*603:01	Unconfirmed
DPB1*514:01	Confirmed	DPB1*544:01	Unconfirmed	DPB1*574:01	Unconfirmed	DPB1*604:01	Unconfirmed
DPB1*515:01	Unconfirmed	DPB1*545:01	Unconfirmed	DPB1*575:01	Unconfirmed	DPB1*605:01	Unconfirmed
DPB1*516:01	Unconfirmed	DPB1*546:01	Unconfirmed	DPB1*576:01	Unconfirmed	DPB1*606:01	Unconfirmed
DPB1*517:01	Unconfirmed	DPB1*547:01	Unconfirmed	DPB1*577:01	Confirmed	DPB1*607:01	Unconfirmed
DPB1*518:01	Unconfirmed	DPB1*548:01	Unconfirmed	DPB1*578:01	Unconfirmed	DPB1*608:01	Unconfirmed
DPB1*519:01	Unconfirmed	DPB1*549:01	Unconfirmed	DPB1*579:01	Unconfirmed	DPB1*609:01	Unconfirmed
DPB1*520:01	Unconfirmed	DPB1*550:01	Unconfirmed	DPB1*580:01	Unconfirmed	DPB1*610:01	Unconfirmed
DPB1*521:01	Unconfirmed	DPB1*551:01N	Unconfirmed	DPB1*581:01	Unconfirmed	DPB1*611:01	Unconfirmed
DPB1*522:01	Unconfirmed	DPB1*552:01	Unconfirmed	DPB1*582:01	Unconfirmed	DPB1*612:01	Unconfirmed
DPB1*523:01	Unconfirmed	DPB1*553:01	Unconfirmed	DPB1*583:01	Unconfirmed		
DPB1*524:01	Unconfirmed	DPB1*554:01	Unconfirmed	DPB1*584:01	Unconfirmed		
DPB1*525:01	Unconfirmed	DPB1*555:01	Unconfirmed	DPB1*585:01	Unconfirmed		
DPB1*526:01	Confirmed	DPB1*556:01	Unconfirmed	DPB1*586:01	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2016-October-14, release 3.26.0, www.ebi.ac.uk/imgt/hla.

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information
SPECIFICITY TABLE

DPB1 SSP typing

Specificities and sizes of the PCR products of the 95+1 primer mixes used for DPB1 SSP typing³

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified DPB1 alleles ³
1	245 bp	515 bp	*01:01:01-01:01:04, 01:01:06, 03:01:01-03:01:08, 13:01:01-13:01:02, 25:01, 26:01:01-26:01:03, 29:01, 37:01, 44:01, 50:01, 52:01, 56:01, 61:01N, 78:01, 79:01, 88:01, 90:01:01-90:01:02, 92:01, 104:01, 107:01, 110:01, 111:01, 114:01, 118:01, 122:01, 124:01, 127:01, 132:01, 133:01, 142:01, 159:01N, 160:01, 162:01, 201:01, 203:01, 209:01, 220:01, 221:01, 222:01, 246:01, 248:01, 249:01, 267:01, 269:01, 270:01, 291:01, 293:01, 295:01, 315:01, 316:01, 326:01, 327:01, 329:01, 351:01, 362:01, 363:01, 389:01, 390:01, 393:01, 394:01, 403:01N, 404:01, 405:01, 411:01, 412:01, 417:01, 436:01, 439:01, 440:01, 448:01, 449:01, 462:01, 472:01, 481:01, 483:01, 506:01, 507:01N, 508:01, 509:01, 516:01, 518:01, 519:01, 536:01, 542:01, 543:01, 544:01, 545:01, 548:01, 562:01, 564:01, 565:01, 567:01, 568:01, 597:01, 599:01, 600:01, 609:01, 610:01, 612:01
2	220 bp	515 bp	*01:01:01-01:01:06, 03:01:01-03:01:08, 18:01, 20:01:01-20:01:03, 25:01, 26:01:01-26:01:03, 27:01, 36:01, 50:01, 52:01, 56:01, 61:01N, 78:01, 79:01, 85:01, 87:01, 89:01, 90:01:01-90:01:02, 92:01, 104:01, 111:01, 114:01, 118:01, 122:01, 124:01, 127:01, 130:01, 132:01, 142:01, 158:01, 159:01N, 162:01, 164:01, 199:01, 201:01, 203:01, 209:01, 220:01, 221:01, 222:01, 248:01, 267:01, 270:01, 271:01, 291:01, 292:01, 293:01, 294:01, 315:01, 316:01, 326:01, 327:01, 329:01, 346:01, 351:01, 363:01, 369:01, 387:01, 390:01, 391:01, 392:01, 394:01, 403:01N, 404:01, 405:01, 411:01, 412:01, 417:01, 436:01, 439:01, 440:01, 462:01, 472:01, 481:01, 483:01, 506:01, 507:01N, 508:01, 509:01, 516:01, 532:01, 536:01, 542:01, 543:01, 545:01, 548:01, 562:01, 568:01, 599:01, 610:01
3	140 bp	430 bp	*01:01:01-01:01:06, 04:01:01-01:04:01:32, 11:01:01-11:01:04, 13:01:01-13:01:02, 15:01:01-15:01:02, 23:01:01-23:01:02, 26:01:01-26:01:03, 27:01, 31:01, 33:01, 34:01, 39:01, 40:01, 52:01, 55:01, 56:01, 58:01, 62:01, 63:01, 65:01:01-65:01:02, 66:01, 67:01, 71:01:01-71:01:02, 72:01, 74:01, 85:01, 87:01, 89:01, 90:01:01-90:01:02, 95:01, 96:01, 99:01, 102:01, 103:01, 107:01, 110:01, 112:01, 117:01, 118:01, 120:01N, 121:01, 125:01, 126:01, 127:01, 128:01, 133:01, 134:01, 138:01, 142:01, 147:01, 149:01, 150:01, 158:01, 159:01N, 160:01, 162:01, 169:01 ^w , 173:01, 174:01, 175:01, 176:01, 177:01, 178:01, 179:01, 180:01, 181:01, 192:01, 193:01, 194:01, 195:01, 199:01, 201:01, 202:01, 206:01, 207:01, 209:01, 213:01, 215:01, 216:01N, 220:01, 224:01, 225:01, 227:01, 228:01, 230:01, 231:01, 232:01, 240:01, 244:01, 246:01, 247:01, 250:01, 253:01, 255:01, 262:01, 264:01, 267:01, 268:01, 272:01, 275:01, 276:01, 278:01, 279:01, 280:01, 281:01, 282:01, 283:01, 290:01, 294:01, 295:01, 298:01, 299:01, 303:01, 304:01, 305:01, 306:01, 314:01, 318:01, 319:01, 320:01, 322:01, 325:01, 326:01, 327:01, 328:01N, 333:01, 334:01, 335:01, 336:01, 340:01, 341:01, 345:01, 346:01, 348:01:01-348:01:02, 350:01, 353:01, 354:01:01-354:01:02, 356:01, 357:01N, 360:01, 362:01, 370:01, 371:01, 375:01, 376:01, 377:01, 378:01, 387:01, 388:01, 389:01, 392:01, 393:01, 396:01,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			397:01, 398:01, 399:01, 403:01N, 411:01, 412:01, 415:01, 417:01, 418:01, 425:01, 426:01, 428:01, 435:01, 436:01, 437:01, 438:01, 440:01, 449:01, 450:01N, 451:01, 453:01, 454:01, 455:01N, 456:01, 458:01, 459:01, 462:01, 464:01, 465:01, 468:01, 471:01, 474:01, 475:01, 476:01, 480:01, 481:01, 482:01, 483:01, 485:01, 486:01, 487:01, 490:01, 493:01, 497:01, 500:01, 503:01, 512:01, 516:01, 517:01, 518:01, 519:01, 520:01, 521:01, 522:01, 523:01, 524:01, 529:01, 531:01, 534:01, 538:01, 542:01, 543:01, 544:01, 553:01, 554:01, 556:01, 559:01, 561:01, 562:01, 563:01, 564:01, 565:01, 569:01, 575:01, 576:01, 578:01, 580:01, 583:01, 584:01, 585:01, 591:01, 592:01, 593:01, 597:01, 599:01, 600:01, 609:01, 612:01
4	140 bp	430 bp	*01:01:01-01:01:06, 04:01:01-01:04:01:01:02 04:01:03-04:01:15 04:01:17-04:01:32, 24:01, 26:01:01-26:01:03, 27:01, 28:01, 31:01, 39:01, 40:01, 49:01, 51:01, 53:01, 56:01, 65:01:01-65:01:02, 66:01, 72:01, 76:01, 85:01, 89:01, 90:01:01-90:01:02, 92:01, 96:01, 99:01, 102:01, 118:01, 120:01N, 121:01, 122:01, 125:01, 126:01, 127:01, 128:01, 134:01, 139:01, 142:01, 149:01, 150:01, 158:01, 159:01N, 162:01, 169:01, 174:01, 175:01, 176:01, 177:01, 178:01, 180:01, 181:01, 192:01, 193:01, 194:01, 195:01, 199:01, 203:01, 212:01, 213:01, 214:01, 215:01, 216:01N, 220:01, 224:01, 225:01, 228:01, 230:01, 231:01, 232:01, 240:01, 253:01, 254:01, 255:01, 262:01, 267:01, 272:01, 275:01, 276:01, 278:01, 279:01, 280:01, 281:01, 282:01, 283:01, 291:01, 294:01, 296:01, 298:01, 306:01, 315:01, 319:01, 320:01 ^w , 323:01, 326:01, 327:01, 334:01, 335:01, 336:01, 337:01, 341:01, 346:01, 350:01, 354:01:01-354:01:02, 355:01, 356:01, 357:01N, 360:01, 363:01, 372:01, 375:01, 376:01, 377:01, 378:01, 385:01, 387:01, 396:01, 398:01, 399:01, 403:01N, 411:01, 412:01, 415:01, 417:01, 418:01, 425:01, 426:01, 427:01, 428:01, 434:01, 436:01, 440:01, 442:01, 453:01, 454:01, 455:01N, 456:01, 459:01, 462:01, 464:01, 465:01, 468:01, 475:01, 476:01 ^w , 479:01, 481:01, 483:01, 485:01, 486:01, 487:01, 490:01, 497:01, 499:01, 500:01, 512:01, 516:01, 520:01, 521:01, 522:01, 523:01, 524:01, 529:01, 534:01, 536:01, 538:01, 542:01, 543:01, 553:01, 554:01, 556:01, 559:01, 562:01, 569:01, 574:01, 578:01, 583:01, 584:01, 591:01, 592:01, 593:01, 607:01
5	235 bp	515 bp	*01:01:01-01:01:06, 08:01, 19:01, 50:01, 57:01, 65:01:01-65:01:02, 68:01, 73:01, 75:01, 84:01, 90:01:01-90:01:02, 106:01, 118:01, 122:01, 127:01, 150:01, 159:01N, 162:01, 166:01, 173:01, 188:01, 201:01, 220:01, 234:01, 236:01:01-236:01:02, 246:01, 248:01, 249:01, 267:01, 278:01, 285:01, 291:01, 304:01, 306:01, 315:01, 316:01, 326:01, 327:01, 340:01, 365:01, 377:01, 379:01, 400:01, 403:01N, 411:01, 417:01, 422:01, 436:01, 440:01, 442:01, 462:01, 466:01, 481:01, 483:01, 495:01, 499:01, 533:01, 535:01, 536:01, 538:01, 542:01, 543:01, 558:01, 599:01
6	165 bp	430 bp	*01:01:01-01:01:06, 13:01:01-13:01:02, 26:01:01-26:01:03, 65:01:01-65:01:02, 107:01, 118:01, 122:01, 127:01, 133:01, 142:01, 159:01N, 160:01, 162:01, 173:01, 203:01, 220:01, 246:01, 267:01, 269:01, 291:01, 315:01, 326:01, 327:01, 362:01, 363:01, 385:01, 389:01, 393:01, 403:01N, 411:01, 412:01, 417:01, 436:01, 440:01, 449:01, 462:01, 481:01, 483:01, 490:01, 503:01, 514:01, 516:01, 518:01, 519:01, 536:01, 542:01, 543:01, 544:01, 562:01, 564:01, 565:01, 597:01, 600:01, 609:01, 612:01
7	160 bp	430 bp	*01:01:01-01:01:06, 13:01:01-13:01:02, 26:01:01-26:01:03, 56:01, 65:01:01-65:01:02, 76:01, 90:01:01-90:01:02, 92:01, 107:01, 110:01, 118:01, 122:01, 125:01, 127:01, 133:01, 142:01, 150:01, 159:01N, 160:01, 162:01, 173:01, 203:01, 220:01, 246:01, 267:01, 269:01, 278:01, 288:01, 291:01, 304:01, 306:01, 315:01, 326:01, 327:01,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			362:01, 363:01, 377:01, 385:01, 389:01, 393:01, 403:01N, 411:01, 412:01, 417:01, 436:01, 440:01, 442:01, 449:01, 462:01, 470:01, 481:01, 483:01, 490:01, 499:01, 503:01, 514:01, 516:01, 518:01, 519:01, 536:01, 538:01, 542:01, 543:01, 544:01, 562:01, 564:01, 565:01, 597:01, 600:01, 609:01, 612:01
8	210 bp	515 bp	*02:01:02-02:02, 04:01:01:01-04:02:08, 05:01:01-05:01:07, 08:01, 16:01:01-16:01:02, 19:01, 22:01, 23:01:01-23:01:02, 24:01, 32:01, 33:01, 38:01, 39:01, 40:01, 46:01:01-46:01:02, 47:01, 48:01, 49:01, 51:01, 53:01, 60:01, 62:01, 63:01, 65:01:01-65:01:02, 68:01, 71:01:01-71:01:02, 75:01, 77:01, 80:01, 81:01, 82:01, 84:01, 94:01, 96:01, 97:01, 99:01, 100:01, 101:01, 103:01, 105:01, 106:01, 112:01, 115:01, 116:01, 120:01N, 121:01, 123:01, 126:01, 128:01, 134:01, 135:01, 138:01, 140:01, 141:01, 143:01, 144:01, 145:01, 146:01, 148:01, 149:01, 150:01, 151:01, 153:01, 154:01N, 155:01:01-155:01:02, 163:01, 165:01, 169:01, 170:01, 171:01, 172:01, 173:01, 174:01, 175:01, 176:01, 177:01, 178:01, 180:01, 181:01, 182:01, 184:01, 185:01, 186:01, 187:01, 188:01, 190:01, 191:01, 192:01, 193:01, 194:01, 195:01, 196:01, 210:01, 211:01, 212:01, 213:01, 214:01, 215:01, 216:01N, 217:01, 218:01N, 219:01, 224:01, 225:01, 227:01, 228:01, 230:01, 231:01, 232:01, 233:01, 234:01, 236:01:01-236:01:02, 237:01, 238:01, 239:01, 240:01, 252:01, 253:01, 254:01, 255:01, 256:01, 257:01, 258:01, 260:01, 261:01, 262:01, 263:01, 272:01, 273:01, 274:01, 275:01, 276:01, 277:01, 278:01, 279:01, 280:01, 281:01, 282:01, 283:01, 284:01, 286:01, 297:01, 298:01, 300:01, 301:01, 302:01, 303:01, 304:01, 305:01, 307:01, 308:01, 310:01, 311:01, 317:01, 318:01, 320:01, 321:01, 323:01, 330:01, 331:01, 332:01, 334:01, 335:01, 336:01, 337:01, 338:01, 339:01, 340:01, 341:01, 342:01, 350:01, 352:01, 354:01:01-354:01:02, 356:01, 357:01N, 358:01, 359:01, 360:01, 364:01, 365:01, 366:01, 367:01, 368:01, 372:01, 373:01, 374:01, 375:01, 376:01, 377:01, 378:01, 380:01, 381:01, 382:01N, 395:01, 396:01, 397:01, 398:01, 400:01, 401:01N, 402:01, 406:01, 414:01, 415:01, 416:01, 418:01, 419:01, 420:01, 421:01, 422:01, 423:01:01-423:01:02, 424:01, 425:01, 426:01, 427:01, 428:01, 429:01, 430:01, 431:01, 432:01, 433:01, 434:01, 435:01, 441:01, 443:01, 444:01, 453:01, 454:01, 455:01N, 456:01, 457:01, 459:01, 461:01, 463:01, 464:01, 465:01, 466:01, 467:01, 468:01, 469:01, 473:01, 474:01, 475:01, 476:01, 477:01, 478:01, 479:01, 485:01, 486:01, 487:01, 488:01, 489:01, 494:01, 495:01, 496:01, 497:01, 500:01, 501:01, 502:01, 510:01, 511:01, 512:01, 513:01, 520:01, 521:01, 522:01, 523:01, 524:01, 525:01, 526:01, 527:01, 528:01, 529:01, 533:01, 534:01, 535:01, 537:01, 538:01, 539:01, 547:01, 549:01, 551:01N, 553:01, 554:01, 556:01, 557:01, 558:01, 559:01, 560:01, 569:01, 570:01N, 571:01, 573:01, 575:01, 577:01, 578:01, 579:01, 582:01, 583:01, 584:01, 586:01, 587:01, 588:01, 589:01, 590:01, 591:01, 592:01, 593:01, 594:01, 595:01, 596:01, 598:01N, 602:01, 603:01, 604:01, 605:01, 606:01, 607:01, 611:01
9⁵	165 bp	430 bp	*02:01:02-02:01:04 02:01:05 ^w , 02:01:07-02:02, 04:02:01:01-04:02:08, 05:01:01-05:01:07, 06:01:01-06:01:03, 16:01:01-16:01:02, 17:01, 18:01, 19:01, 20:01:01-20:01:03, 21:01, 22:01, 23:01:01-23:01:02, 30:01, 32:01, 34:01, 36:01, 38:01, 41:01:01-41:01:02, 46:01:01-46:01:02, 47:01, 48:01, 55:01, 58:01, 59:01, 60:01, 62:01, 63:01, 64:01N, 69:01, 71:01:01-71:01:02, 77:01, 80:01, 82:01, 83:01, 86:01, 87:01, 91:01, 93:01, 94:01, 95:01, 97:01, 98:01, 100:01, 101:01, 103:01, 105:01, 106:01, 108:01, 109:01, 112:01, 113:01, 115:01, 116:01, 123:01, 129:01, 130:01, 131:01, 135:01, 136:01, 137:01,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			138:01, 140:01, 141:01, 143:01, 144:01, 145:01, 146:01, 148:01, 151:01, 152:01, 153:01, 154:01N, 155:01:01-155:01:02, 161:01N, 163:01, 164:01, 165:01, 166:01, 168:01, 170:01, 171:01, 182:01, 183:01, 184:01, 185:01, 186:01, 189:01, 190:01, 191:01, 196:01, 197:01, 200:01, 208:01, 210:01, 211:01, 217:01, 218:01N, 219:01, 223:01, 226:01, 233:01, 235:01, 236:01:01-236:01:02, 237:01, 238:01, 239:01, 241:01, 244:01, 245:01, 251:01, 252:01, 256:01, 257:01, 258:01, 259:01, 260:01, 261:01, 263:01, 271:01, 273:01, 274:01 ^w , 284:01, 286:01, 292:01, 295:01, 297:01, 300:01, 301:01, 307:01, 308:01, 309:01, 310:01, 311:01, 317:01, 321:01, 322:01, 325:01, 330:01, 331:01, 332:01, 333:01, 338:01, 339:01, 340:01, 342:01, 343:01 ^w , 347:01, 349:01, 352:01, 358:01, 359:01, 361:01, 364:01, 365:01, 366:01, 367:01, 368:01, 369:01, 371:01, 373:01, 374:01 ^w , 379:01, 380:01, 381:01, 382:01N, 384:01, 392:01, 395:01, 400:01, 402:01, 406:01, 407:01, 408:01, 413:01, 414:01, 416:01, 419:01, 420:01, 421:01, 422:01, 424:01, 429:01, 430:01, 431:01, 432:01, 433:01, 435:01, 443:01, 444:01, 447:01, 448:01, 451:01, 452:01, 457:01, 458:01, 460:01, 461:01, 463:01, 466:01, 467:01, 469:01, 473:01, 477:01, 478:01, 484:01, 488:01, 489:01, 494:01, 495:01, 496:01, 501:01, 502:01, 510:01, 511:01, 513:01, 525:01, 526:01, 528:01, 530:01, 532:01, 533:01, 535:01, 537:01, 539:01, 540:01, 546:01, 547:01, 549:01, 550:01, 551:01N, 557:01, 558:01, 560:01, 563:01, 567:01, 570:01N, 571:01, 573:01, 576:01, 577:01, 579:01, 580:01, 581:01, 582:01, 586:01, 587:01, 588:01, 589:01, 590:01, 594:01, 595:01, 596:01, 598:01N, 601:01, 602:01, 604:01, 605:01, 606:01, 608:01, 611:01
10	220 bp	515 bp	*02:01:02-02:01:03, 02:01:04 ^w , 02:01:05-02:01:08, 02:01:09 ^w , 02:01:10-02:02, 08:01, 16:01:01-16:01:02, 19:01, 22:01, 32:01, 33:01, 41:01:01-41:01:02, 46:01:01, 46:01:02 ^w , 47:01, 48:01, 71:01:01, 71:01:02 ^w , 81:01, 95:01, 101:01, 103:01, 106:01, 115:01, 123:01, 141:01, 145:01, 146:01, 148:01, 151:01, 152:01, 154:01N, 155:01:01-155:01:02, 163:01, 165:01, 166:01, 172:01, 173:01, 182:01, 186:01, 187:01, 188:01, 189:01, 191:01, 196:01, 211:01, 217:01, 218:01N, 229:01, 234:01, 235:01, 236:01:01-236:01:02, 237:01, 238:01, 239:01, 258:01, 261:01, 273:01, 277:01, 297:01, 302:01, 304:01, 305:01, 310:01, 311:01, 332:01, 339:01, 340:01, 352:01, 358:01, 359:01, 366:01 ^w , 367:01, 381:01, 382:01N, 400:01, 401:01N, 406:01, 414:01, 416:01, 419:01, 422:01, 423:01:01-423:01:02, 432:01, 433:01, 441:01, 444:01, 457:01, 461:01, 467:01, 469:01, 474:01, 478:01, 489:01, 496:01, 501:01, 502:01, 510:01, 511:01, 513:01, 526:01, 528:01, 533:01, 535:01, 537:01, 547:01, 551:01N, 555:01, 557:01, 558:01, 570:01N, 576:01, 579:01, 581:01, 582:01, 590:01, 602:01, 603:01, 604:01
11	145 bp 185 bp	515 bp	*69:01, 136:01, 179:01, 207:01, 303:01, 309:01, 322:01, 458:01 *02:01:02-02:01:19, 04:01:01:01-04:01:06, 04:01:08-04:01:10, 04:01:12-04:02:08, 23:01:01-23:01:02, 24:01, 32:01, 33:01, 41:01:01-41:01:02, 46:01:01-46:01:02, 47:01, 51:01, 59:01, 60:01, 66:01, 71:01:01-71:01:02, 72:01, 73:01, 75:01, 77:01, 80:01, 81:01, 82:01, 83:01, 86:01, 94:01, 99:01, 105:01, 108:01, 109:01, 113:01, 115:01, 119:01, 120:01N, 121:01, 123:01, 126:01, 128:01, 129:01, 134:01, 138:01, 141:01, 143:01, 144:01, 145:01, 146:01, 149:01, 151:01, 153:01, 154:01N, 155:01:01-155:01:02, 163:01, 164:01, 169:01, 174:01, 175:01, 176:01, 177:01, 178:01, 179:01, 180:01, 181:01, 183:01, 185:01, 186:01, 187:01, 188:01, 189:01, 190:01, 191:01, 192:01, 193:01, 194:01, 195:01, 196:01, 199:01, 200:01, 210:01, 211:01, 212:01, 213:01, 214:01, 215:01, 216:01N, 217:01, 218:01N, 219:01, 224:01, 225:01, 227:01, 228:01, 229:01, 231:01, 232:01,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			233:01, 235:01, 236:01:01-236:01:02, 237:01, 238:01, 239:01, 240:01, 252:01, 253:01, 254:01, 255:01, 256:01, 257:01, 258:01, 260:01, 261:01, 262:01, 263:01, 271:01, 272:01, 273:01, 275:01, 276:01, 278:01, 281:01, 282:01, 283:01, 286:01, 294:01, 297:01, 298:01, 302:01, 303:01, 306:01, 307:01, 308:01, 309:01, 310:01, 311:01, 318:01, 319:01, 320:01, 321:01, 322:01, 323:01, 334:01, 335:01, 336:01, 338:01, 339:01, 341:01, 342:01, 344:01, 350:01, 352:01, 355:01, 356:01, 357:01N, 359:01, 360:01, 364:01, 365:01, 366:01, 367:01, 368:01, 369:01, 372:01, 373:01, 374:01, 375:01, 376:01, 377:01, 378:01, 380:01, 381:01, 382:01N, 392:01, 396:01, 397:01, 399:01, 401:01N, 402:01, 414:01, 415:01, 416:01, 418:01, 419:01, 420:01, 421:01, 423:01:01-423:01:02, 424:01, 425:01, 426:01, 427:01, 428:01, 429:01, 430:01, 432:01, 433:01, 434:01, 435:01, 443:01, 444:01, 451:01, 452:01, 453:01, 455:01N, 456:01, 457:01, 459:01, 461:01, 463:01, 464:01, 465:01, 468:01, 469:01, 475:01, 476:01, 477:01, 479:01, 485:01, 486:01, 487:01, 488:01, 489:01, 494:01, 497:01, 500:01, 501:01, 502:01, 508:01, 510:01, 511:01, 520:01, 521:01, 522:01, 523:01, 524:01, 525:01, 528:01, 529:01, 534:01, 537:01, 539:01, 540:01, 549:01, 551:01N, 553:01, 554:01, 555:01, 556:01, 557:01, 559:01, 569:01, 570:01N, 571:01, 574:01, 575:01, 576:01, 577:01, 578:01, 579:01, 581:01, 582:01, 583:01, 586:01, 591:01, 592:01, 593:01, 594:01, 595:01, 596:01, 601:01, 602:01, 603:01, 604:01, 605:01, 606:01, 607:01
12⁴	80 bp	515 bp	*02:01:02-02:01:03, 02:01:05-02:01:08, 02:01:09 ^w , 02:01:10-02:01:19, 06:01:01-06:01:03, 08:01, 09:01:01-09:01:04, 10:01:01-10:01:03, 16:01:01-16:01:02, 17:01, 29:01, 32:01, 37:01, 41:01:01-41:01:02, 44:01, 46:01:01, 48:01, 64:01N, 81:01, 86:01, 88:01, 93:01, 109:01, 113:01, 115:01, 123:01, 131:01, 137:01, 141:01, 145:01, 146:01, 151:01, 152:01, 154:01N, 155:01:01-155:01:02, 156:01, 157:01, 161:01N, 163:01, 165:01, 166:01, 167:01, 168:01, 172:01, 182:01, 186:01, 187:01, 188:01, 189:01, 191:01, 196:01, 198:01, 200:01, 208:01, 211:01, 217:01, 218:01N, 229:01, 234:01, 235:01, 236:01:01-236:01:02, 237:01, 238:01, 239:01, 241:01, 245:01, 249:01, 251:01, 261:01, 265:01, 266:01, 269:01, 273:01, 277:01, 287:01, 288:01, 289:01, 297:01, 310:01, 311:01, 313:01, 324:01, 332:01, 339:01, 343:01, 344:01, 347:01, 349:01, 352:01, 359:01, 361:01, 366:01 ^w , 367:01, 381:01, 382:01N, 384:01, 386:01, 401:01N, 407:01, 410:01 ^w , 413:01, 414:01, 416:01, 419:01, 422:01, 423:01:01-423:01:02, 432:01, 433:01, 441:01, 444:01, 447:01, 448:01, 452:01, 457:01, 460:01, 461:01, 467:01, 469:01, 470:01, 489:01, 501:01, 502:01, 504:01, 505:01, 510:01, 511:01, 513:01, 514:01, 515:01, 526:01, 528:01, 530:01, 537:01, 546:01, 551:01N, 552:01, 555:01, 557:01, 566:01, 567:01, 570:01N, 579:01, 581:01, 582:01, 601:01, 602:01, 603:01, 604:01, 608:01
13	180 bp	430 bp	*02:02, 05:01:01-05:01:02, 05:01:04-05:01:07, 19:01, 22:01, 24:01, 38:01, 47:01, 97:01, 100:01, 101:01, 106:01, 135:01, 139:01, 140:01, 170:01, 171:01, 226:01, 233:01, 284:01, 300:01, 301:01, 302:01, 317:01, 330:01, 331:01, 337:01, 358:01, 395:01, 400:01, 406:01, 473:01, 478:01, 495:01, 496:01, 527:01, 533:01, 535:01, 547:01, 558:01, 560:01, 573:01, 587:01, 588:01, 589:01, 590:01, 598:01N, 611:01
14⁴	105 bp	430 bp	*02:02, 05:01:01-05:01:02, 05:01:04-05:01:07, 21:01, 22:01, 36:01, 38:01, 97:01, 100:01, 101:01, 114:01, 135:01, 140:01, 170:01, 171:01, 223:01, 226:01, 300:01, 301:01, 317:01, 330:01, 331:01, 395:01, 406:01, 473:01, 478:01, 495:01, 496:01, 547:01, 550:01, 560:01, 573:01, 587:01, 588:01, 589:01, 590:01, 598:01N, 611:01
	175 bp		*21:01, 30:01, 36:01, 54:01, 114:01, 390:01, 408:01, 550:01

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

15⁷	200 bp	430 bp	*02:02, 48:01, 95:01, 99:01, 100:01, 101:01, 112:01, 116:01, 148:01, 332:01, 406:01, 478:01, 496:01, 547:01, 590:01
16⁴	80 bp	430 bp	*03:01:01-03:01:08, 04:02:01:01-04:02:01:02, 04:02:02-04:02:08, 14:01:01-14:01:03, 18:01, 20:01:01-20:01:03, 25:01, 28:01, 35:01:01-35:01:02, 45:01, 49:01, 50:01, 51:01, 53:01, 57:01, 59:01, 60:01, 61:01N, 68:01, 70:01, 73:01, 75:01, 76:01, 77:01, 78:01, 79:01, 80:01, 82:01, 83:01, 91:01, 92:01, 98:01, 104:01, 105:01, 108:01, 111:01, 116:01, 119:01, 122:01, 124:01, 129:01, 130:01, 132:01, 143:01, 144:01, 153:01, 164:01, 183:01, 184:01, 185:01, 197:01, 203:01, 210:01, 214:01, 219:01, 221:01, 222:01, 242:01, 243:01, 248:01, 252:01, 256:01, 257:01, 259:01, 260:01, 263:01, 270:01, 271:01, 274:01, 285:01, 286:01, 292:01, 293:01, 296:01, 307:01, 308:01, 312:01, 316:01, 321:01, 329:01, 338:01, 342:01, 351:01, 355:01, 363:01, 364:01, 365:01, 368:01, 369:01, 373:01, 374:01, 379:01, 380:01, 383:01, 385:01, 391:01, 394:01, 402:01, 404:01, 405:01, 409:01, 420:01, 424:01, 429:01, 431:01, 439:01, 442:01, 443:01, 445:01, 446:01, 463:01, 466:01, 472:01, 477:01, 484:01 ^w , 488:01, 491:01, 492:01, 494:01, 498:01, 499:01, 506:01, 507:01N, 508:01, 509:01, 525:01, 532:01, 536:01, 539:01, 540:01, 545:01, 548:01, 549:01 ^w , 568:01, 571:01, 572:01, 574:01, 577:01, 586:01, 594:01, 595:01, 596:01, 605:01, 606:01, 610:01
	165 bp		*99:01, 220:01
	210 bp		*127:01
17	260 bp	515 bp	*03:01:01-03:01:08, 06:01:01-06:01:03, 09:01:01-09:01:04, 10:01:01-10:01:03, 11:01:01-11:01:04, 13:01:01-13:01:02, 14:01:01-14:01:03, 17:01, 20:01:01-20:01:03, 21:01, 25:01, 26:01:01-26:01:03, 27:01, 29:01, 30:01, 35:01:01-35:01:02, 36:01, 37:01, 44:01, 45:01, 52:01, 54:01, 55:01, 56:01, 58:01, 61:01N, 64:01N, 67:01, 69:01, 70:01, 76:01, 78:01, 79:01, 85:01, 87:01, 88:01, 91:01, 92:01, 93:01, 98:01, 104:01, 107:01, 110:01, 111:01, 114:01, 119:01, 124:01, 125:01, 130:01, 131:01, 132:01, 133:01, 136:01, 137:01, 142:01, 156:01, 157:01, 167:01, 168:01, 197:01, 202:01, 203:01, 204:01, 205:01, 206:01, 207:01, 208:01, 209:01, 221:01, 222:01, 241:01, 243:01, 244:01, 245:01, 250:01, 251:01, 264:01, 265:01, 266:01, 268:01, 269:01, 270:01, 287:01, 288:01, 289:01, 293:01, 295:01, 312:01, 313:01, 314:01, 324:01, 325:01, 328:01N, 329:01, 343:01, 348:01:01-348:01:02, 349:01, 351:01, 353:01, 361:01, 362:01, 363:01, 370:01, 371:01, 383:01, 384:01, 385:01, 386:01, 388:01, 389:01, 390:01, 391:01, 393:01, 394:01, 404:01, 405:01, 407:01, 408:01, 409:01, 410:01, 412:01, 413:01, 437:01, 438:01, 439:01, 445:01, 446:01, 447:01, 448:01, 449:01, 450:01N, 458:01, 460:01, 470:01, 472:01, 490:01, 491:01, 492:01, 498:01, 503:01, 504:01, 505:01, 506:01, 509:01, 514:01, 515:01, 517:01, 518:01, 519:01, 530:01, 532:01, 541:01, 544:01, 545:01, 548:01, 550:01, 552:01, 562:01, 563:01, 564:01, 565:01, 566:01, 567:01, 568:01, 572:01, 597:01, 600:01, 609:01, 610:01, 612:01
18	180 bp	430 bp	*03:01:01-03:01:08, 06:01:01-06:01:03, 09:01:01-09:01:04, 14:01:01-14:01:03, 17:01, 20:01:01-20:01:03, 29:01, 35:01:01-35:01:02, 44:01, 61:01N, 64:01N, 69:01, 70:01, 76:01, 78:01, 86:01, 88:01, 91:01, 92:01, 98:01, 104:01, 111:01, 119:01, 124:01, 130:01, 131:01, 132:01, 156:01, 157:01, 161:01N, 164:01, 168:01, 197:01, 203:01, 205:01, 208:01, 221:01, 222:01, 241:01, 242:01, 243:01, 245:01, 251:01, 266:01, 270:01, 287:01, 288:01, 289:01, 293:01, 329:01, 343:01, 351:01, 361:01, 363:01, 383:01, 384:01, 385:01, 386:01, 391:01, 394:01, 404:01, 405:01, 407:01, 409:01, 413:01, 439:01, 445:01,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			446:01, 447:01, 460:01, 472:01, 491:01, 492:01, 498:01, 504:01, 505:01, 506:01, 507:01N, 508:01, 509:01, 530:01, 540:01, 541:01, 545:01, 546:01, 548:01, 566:01, 567:01, 568:01, 572:01, 601:01, 610:01
19	200 bp	430 bp	*03:01:01-03:01:08, 06:01:01-06:01:03, 11:01:01-11:01:04, 14:01:01-14:01:03, 20:01:01-20:01:03, 25:01, 29:01, 44:01, 45:01, 52:01, 56:01, 61:01N, 64:01N, 67:01, 69:01, 70:01, 74:01, 76:01, 78:01, 87:01, 91:01, 92:01, 104:01, 111:01, 114:01, 119:01, 124:01, 130:01, 136:01, 142:01, 161:01N, 164:01, 167:01, 197:01, 202:01, 203:01, 204:01, 205:01, 207:01, 208:01, 221:01, 222:01, 242:01, 243:01, 250:01, 264:01, 266:01, 268:01, 270:01, 293:01, 328:01N, 329:01, 348:01:01-348:01:02, 349:01, 351:01, 353:01, 363:01, 371:01, 383:01, 385:01, 388:01, 391:01, 394:01, 404:01, 405:01, 409:01, 437:01, 439:01, 445:01, 446:01, 450:01N, 458:01, 472:01, 491:01, 492:01, 498:01, 506:01, 507:01N, 508:01, 509:01, 517:01, 531:01, 546:01, 548:01, 566:01, 567:01, 568:01, 572:01, 601:01, 610:01
20	235 bp	515 bp	*03:01:01-03:01:08, 09:01:01-09:01:04, 10:01:01-10:01:03, 13:01:01-13:01:02, 14:01:01-14:01:03, 25:01, 26:01:01-26:01:03, 29:01, 35:01:01-35:01:02, 37:01, 44:01, 45:01, 52:01, 54:01, 56:01, 61:01N, 67:01, 70:01, 76:01, 78:01, 79:01, 88:01, 92:01, 104:01, 107:01, 110:01, 111:01, 114:01, 119:01, 124:01, 125:01, 132:01, 133:01, 142:01, 157:01, 160:01, 167:01, 197:01, 203:01, 209:01, 221:01, 222:01, 242:01, 265:01, 266:01, 269:01, 270:01, 288:01, 289:01, 293:01, 295:01, 312:01, 313:01, 314:01, 324:01, 329:01, 344:01, 351:01, 362:01, 363:01, 383:01, 385:01, 386:01, 389:01, 390:01, 393:01, 394:01, 404:01, 405:01, 409:01, 410:01, 412:01, 439:01, 445:01, 446:01, 448:01, 449:01, 470:01, 472:01, 490:01, 491:01, 492:01, 498:01, 503:01, 504:01, 506:01, 507:01N, 508:01, 509:01, 514:01, 515:01, 518:01, 519:01, 530:01, 541:01, 544:01, 545:01, 548:01, 552:01, 562:01, 564:01, 565:01, 567:01, 568:01, 572:01, 597:01, 600:01, 609:01, 610:01, 612:01
21⁴	100 bp	430 bp	*03:01:01-03:01:08, 09:01:01-09:01:04, 14:01:01-14:01:03, 29:01, 35:01:01-35:01:02, 44:01, 50:01, 57:01, 61:01N, 70:01, 76:01, 78:01, 88:01, 92:01, 104:01, 111:01, 119:01, 124:01, 132:01, 157:01, 166:01, 197:01, 203:01, 221:01, 222:01, 234:01, 242:01, 248:01, 249:01, 266:01, 270:01, 288:01, 289:01, 293:01, 329:01, 351:01, 363:01, 379:01, 383:01, 385:01, 386:01, 394:01, 404:01, 405:01, 409:01, 439:01, 442:01, 445:01, 446:01, 472:01, 491:01, 492:01, 498:01, 504:01, 506:01, 507:01N, 508:01, 509:01, 530:01, 536:01, 541:01, 545:01, 548:01, 567:01, 568:01, 572:01, 610:01
22	185 bp	430 bp	*04:01:01:01-04:01:06 04:01:08-04:01:10 04:01:12-04:01:32, 24:01, 33:01, 39:01, 49:01, 51:01, 66:01, 72:01, 81:01, 96:01, 99:01, 117:01, 120:01N, 121:01, 126:01, 128:01, 134:01, 149:01, 158:01, 169:01, 172:01, 174:01, 175:01, 176:01, 177:01, 178:01, 179:01, 180:01, 181:01, 192:01, 193:01, 194:01, 195:01, 199:01, 212:01, 213:01, 214:01, 215:01, 216:01N, 224:01, 225:01, 228:01, 229:01, 231:01, 232:01, 240:01, 253:01, 254:01, 255:01, 262:01, 272:01, 275:01, 276:01, 278:01, 281:01, 282:01, 283:01, 294:01, 298:01, 302:01, 303:01, 306:01, 319:01, 320:01, 323:01, 334:01, 335:01, 336:01, 341:01, 350:01, 354:01:01-354:01:02, 355:01, 356:01, 357:01N, 360:01, 372:01, 375:01, 376:01, 377:01, 378:01, 396:01, 397:01, 399:01, 415:01, 418:01, 425:01, 426:01, 427:01, 428:01, 434:01, 440:01, 453:01, 455:01N, 456:01, 459:01, 464:01, 465:01, 468:01, 474:01, 475:01, 476:01, 479:01, 480:01, 485:01, 486:01, 487:01, 497:01, 500:01, 520:01, 521:01, 522:01, 523:01, 524:01, 529:01, 531:01, 534:01, 553:01, 554:01, 555:01, 556:01, 559:01, 561:01,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			569:01, 574:01, 575:01, 578:01, 583:01, 584:01, 591:01, 592:01, 593:01, 607:01
23⁷	145 bp	430 bp	*05:01:01-05:01:07, 34:01, 36:01, 38:01, 62:01, 63:01, 97:01, 100:01, 112:01, 114:01, 116:01, 135:01, 140:01, 170:01, 171:01, 223:01, 226:01, 300:01, 301:01, 317:01, 330:01, 331:01, 333:01, 394:01, 395:01, 473:01, 484:01, 495:01, 560:01, 573:01, 580:01, 587:01, 589:01, 598:01N, 599:01, 611:01
	210 bp		*127:01, 383:01
24	195 bp	515 bp	*101:01
	265 bp		*05:01:01-05:01:07, 08:01, 16:01:01-16:01:02, 19:01, 22:01, 31:01, 38:01, 57:01, 63:01, 65:01:01-65:01:02, 68:01, 84:01, 97:01, 102:01, 103:01, 106:01, 135:01, 140:01, 147:01, 150:01, 152:01, 165:01, 166:01, 170:01, 171:01, 173:01, 182:01, 184:01, 226:01, 234:01, 259:01, 277:01, 284:01, 285:01, 300:01, 301:01, 304:01, 305:01, 317:01, 331:01, 337:01, 340:01, 358:01, 379:01, 395:01, 398:01, 400:01, 422:01, 442:01, 466:01, 473:01, 495:01, 527:01, 533:01, 535:01, 538:01, 558:01, 560:01, 573:01, 587:01, 588:01, 598:01N, 611:01
25⁷	200 bp	515 bp	*05:01:01-05:01:07, 21:01, 22:01, 36:01, 38:01, 44:01, 58:01, 63:01, 97:01, 114:01, 135:01, 140:01, 170:01, 171:01, 220:01, 223:01, 226:01, 265:01, 300:01, 301:01, 317:01, 331:01, 384:01, 394:01, 395:01, 473:01, 495:01, 550:01, 560:01, 563:01, 573:01, 587:01, 588:01, 598:01N, 599:01, 611:01
	265 bp		*70:01
26^{4,6}	75 bp	515 bp	*06:01:01-06:01:03, 09:01:01-09:01:04, 17:01, 29:01, 44:01, 46:01:01-46:01:02, 64:01N, 86:01, 88:01, 101:01, 131:01, 152:01, 156:01, 157:01, 161:01N, 166:01, 168:01, 182:01, 208:01, 234:01, 235:01, 241:01, 245:01, 249:01, 251:01, 266:01, 287:01, 288:01, 289:01, 332:01, 343:01, 361:01, 384:01, 386:01, 407:01, 413:01, 447:01, 460:01, 504:01, 505:01, 530:01, 546:01, 555:01, 566:01, 567:01, 581:01, 601:01
	205 bp		*123:01
27^{4,5,7}	95 bp	430 bp	*06:01:01-06:01:03, 17:01, 20:01:01-20:01:03, 46:01:01-46:01:02, 64:01N, 69:01, 80:01, 86:01, 91:01, 98:01, 108:01, 130:01, 131:01, 152:01, 156:01, 161:01N, 164:01, 166:01, 168:01, 182:01, 197:01, 205:01, 208:01, 214:01, 235:01, 241:01, 245:01, 251:01, 259:01, 287:01, 292:01, 332:01, 343:01, 355:01, 361:01, 379:01, 384:01, 407:01, 413:01, 447:01, 460:01, 484:01, 530:01, 540:01, 546:01, 555:01, 566:01, 567:01, 581:01, 601:01
	215 bp		*169:01, 252:01, 582:01
	235 bp		*15:01:01, 18:01, 89:01, 158:01, 198:01, 199:01, 200:01, 219:01, 246:01, 247:01, 290:01, 292:01, 345:01, 347:01, 369:01, 387:01, 471:01, 480:01, 482:01, 493:01, 561:01, 585:01, 608:01
28	200 bp	430 bp	*09:01:01-09:01:04, 10:01:01-10:01:03, 13:01:01-13:01:02, 17:01, 21:01, 26:01:01-26:01:03, 27:01, 30:01, 35:01:01-35:01:02, 36:01, 37:01, 54:01, 55:01, 58:01, 66:01, 79:01, 85:01, 86:01, 88:01, 93:01, 98:01, 107:01, 109:01, 110:01, 113:01, 117:01, 125:01, 129:01, 131:01, 132:01, 133:01, 137:01, 156:01, 157:01, 160:01, 168:01, 206:01, 209:01, 241:01, 244:01, 245:01, 251:01, 265:01, 269:01, 271:01, 287:01, 288:01, 289:01, 294:01, 295:01, 312:01, 313:01, 314:01, 324:01, 325:01, 343:01, 344:01, 361:01, 362:01, 370:01, 384:01, 386:01, 389:01, 390:01, 392:01, 393:01, 407:01, 408:01, 410:01, 412:01, 413:01, 438:01, 447:01, 448:01, 449:01, 460:01, 470:01, 490:01, 503:01, 504:01, 505:01, 514:01, 515:01, 518:01, 519:01, 530:01, 532:01, 540:01, 541:01, 544:01, 550:01, 562:01, 563:01, 564:01, 565:01, 597:01, 600:01, 609:01, 612:01

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

29⁴	260 bp		*119:01
	105 bp	515 bp	*141:01
	220 bp		*09:01:01-09:01:04, 10:01:01-10:01:03, 17:01, 30:01, 54:01, 55:01, 58:01, 86:01, 113:01, 131:01, 137:01, 156:01, 157:01, 167:01, 168:01, 241:01, 245:01, 265:01, 266:01, 287:01, 288:01, 289:01, 313:01, 314:01, 324:01, 325:01, 343:01, 344:01, 361:01, 384:01, 386:01, 407:01, 408:01, 410:01, 447:01, 460:01, 470:01, 503:01, 504:01, 505:01, 514:01, 515:01, 530:01
30	185 bp	430 bp	*09:01:01-09:01:04, 14:01:01-14:01:03, 17:01, 35:01:01, 76:01, 86:01, 91:01, 98:01, 119:01, 131:01, 156:01, 157:01, 168:01, 197:01, 241:01, 242:01, 243:01, 245:01, 266:01, 287:01, 288:01, 289:01, 343:01, 361:01, 383:01, 384:01, 385:01, 386:01, 407:01, 409:01, 445:01, 446:01, 447:01, 460:01, 491:01, 492:01, 498:01, 504:01, 505:01, 530:01, 540:01, 541:01, 572:01
31⁴	120 bp	515 bp	*01:01:01-01:01:06, 05:01:01-05:01:02, 05:01:04-05:01:07, 08:01, 10:01:01-10:01:02, 11:01:01-11:01:04, 13:01:01-13:01:02, 16:01:01-16:01:02, 19:01, 21:01, 22:01, 25:01, 26:01:01-26:01:03, 27:01, 30:01, 31:01, 36:01, 37:01, 38:01, 45:01, 52:01, 54:01, 55:01, 56:01, 58:01, 63:01, 65:01:01-65:01:02, 67:01, 68:01, 79:01, 84:01, 85:01, 87:01, 89:01, 90:01:01-90:01:02, 93:01, 97:01, 102:01, 103:01, 106:01, 107:01, 110:01, 114:01, 118:01, 122:01, 125:01, 127:01, 133:01, 135:01, 136:01, 137:01, 140:01, 142:01, 147:01, 150:01, 159:01N, 162:01, 165:01, 167:01, 170:01, 171:01, 173:01, 184:01, 201:01, 202:01, 204:01, 206:01, 207:01, 209:01, 220:01, 223:01, 226:01, 244:01, 246:01, 247:01, 250:01, 264:01, 265:01, 267:01, 268:01, 269:01, 277:01, 284:01, 285:01, 291:01, 295:01, 300:01, 301:01, 304:01, 305:01, 312:01, 313:01, 314:01, 315:01, 316:01, 317:01, 324:01, 325:01, 326:01, 327:01, 328:01N, 331:01, 337:01, 340:01, 346:01, 348:01:01-348:01:02, 349:01, 353:01, 358:01, 362:01, 370:01, 371:01, 388:01, 389:01, 390:01, 393:01, 395:01, 398:01, 400:01, 403:01N, 408:01, 410:01, 411:01, 412:01, 417:01, 422:01, 436:01, 437:01, 438:01, 448:01, 449:01, 450:01N, 458:01, 462:01, 466:01, 470:01, 473:01, 481:01, 483:01, 490:01, 495:01, 503:01, 514:01, 515:01, 516:01, 517:01, 518:01, 519:01, 527:01, 532:01, 533:01, 535:01, 538:01, 542:01, 543:01, 544:01, 550:01, 552:01, 558:01, 560:01, 562:01, 563:01, 564:01, 565:01, 573:01, 587:01, 588:01, 597:01, 598:01N, 599:01, 600:01, 608:01, 609:01, 611:01, 612:01
32^{4,7}	215 bp		*222:01
	75 bp	430 bp	*78:01
	200 bp		*11:01:01-11:01:04, 130:01, 147:01, 202:01, 203:01, 204:01, 205:01, 250:01, 264:01, 268:01, 328:01N, 343:01, 353:01, 370:01, 388:01, 389:01, 405:01, 450:01N, 517:01
	260 bp		*223:01, 293:01
33⁴	105 bp	430 bp	*76:01, 92:01, 156:01, 203:01, 205:01, 214:01, 215:01, 287:01, 288:01, 355:01, 363:01, 385:01, 442:01, 536:01, 555:01, 566:01
	140 bp		*13:01:01-13:01:02, 33:01, 81:01, 107:01, 110:01, 117:01, 133:01, 156:01, 160:01, 172:01, 173:01, 198:01, 206:01, 229:01, 246:01, 247:01, 269:01, 277:01, 287:01, 288:01, 302:01, 304:01, 305:01, 362:01, 389:01, 393:01, 438:01, 449:01, 470:01, 474:01, 503:01, 514:01, 518:01, 519:01, 544:01, 555:01, 561:01, 564:01, 565:01, 566:01, 597:01, 600:01, 609:01, 612:01
	195 bp		*123:01, 178:01, 218:01N
34	210 bp	430 bp	*14:01:01-14:01:03, 45:01, 67:01, 76:01, 91:01, 119:01, 167:01, 197:01, 242:01, 243:01, 264:01, 266:01, 383:01, 385:01, 409:01, 445:01, 446:01, 491:01, 492:01, 498:01, 572:01

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

35	195 bp	430 bp	*15:01:01-15:01:02, 74:01, 198:01, 290:01, 299:01, 345:01, 387:01, 471:01, 493:01, 585:01
36	260 bp	515 bp	*15:01:01-15:01:02, 18:01, 28:01, 34:01, 40:01, 53:01, 62:01, 139:01, 198:01, 290:01, 292:01, 296:01, 299:01, 333:01, 345:01, 347:01, 387:01, 471:01, 482:01, 484:01, 493:01, 499:01, 512:01, 526:01, 580:01, 585:01
37	160 bp	430 bp	*13:01:01-13:01:02, 107:01, 110:01, 133:01, 160:01, 173:01, 246:01, 269:01, 278:01, 304:01, 362:01, 389:01, 393:01, 412:01, 449:01, 503:01, 518:01, 519:01, 538:01, 544:01, 564:01, 565:01, 597:01, 600:01, 612:01
	185 bp		*15:01:01-15:01:02, 28:01, 40:01, 53:01, 74:01, 139:01, 198:01, 290:01, 296:01, 299:01, 345:01, 387:01, 471:01, 482:01, 493:01, 499:01, 512:01, 585:01
38⁴	95 bp	515 bp	*23:01:01-23:01:02, 34:01, 52:01, 55:01, 58:01, 62:01, 63:01, 67:01, 71:01:01-71:01:02, 87:01, 95:01, 103:01, 112:01, 121:01, 138:01, 201:01, 209:01, 244:01, 295:01, 314:01, 322:01, 325:01, 333:01, 340:01, 371:01, 392:01, 435:01, 451:01, 458:01, 563:01, 576:01, 580:01, 599:01
	180 bp		*57:01 [?] , 185:01, 186:01, 243:01, 611:01
39	210 bp	515 bp	*28:01, 31:01, 34:01, 57:01, 59:01, 72:01, 73:01, 95:01, 102:01, 108:01, 139:01, 147:01, 152:01, 166:01, 179:01, 189:01, 235:01, 259:01, 285:01, 296:01, 299:01, 306:01, 309:01, 322:01, 333:01, 355:01, 379:01, 442:01, 451:01, 484:01, 499:01, 555:01, 574:01, 576:01, 580:01
40	180 bp 230 bp	430 bp	*30:01, 54:01, 408:01 *14:01:01-14:01:03, 35:01:01, 45:01, 66:01, 67:01, 76:01, 91:01, 98:01, 119:01, 125:01, 129:01, 197:01, 242:01, 243:01, 244:01, 312:01, 383:01, 385:01, 409:01, 445:01, 446:01, 490:01, 491:01, 492:01, 498:01, 503:01, 530:01, 540:01, 572:01
41^{4,6,7}	75 bp 225 bp 250 bp 280 bp	515 bp	*77:01, 245:01, 559:01 *154:01N *31:01, 34:01, 94:01, 176:01, 484:01, 493:01, 575:01, 580:01 *134:01, 177:01
42⁷	140 bp 185 bp 210 bp 245 bp 285 bp	430 bp	*97:01 *32:01 *176:01, 180:01 *128:01 *82:01, 301:01, 339:01, 400:01
43⁵	190 bp	430 bp	*34:01, 62:01, 301:01, 333:01, 484:01, 580:01
44^{4,7}	115 bp 155 bp 185 bp 210 bp 240 bp 270 bp	430 bp	*99:01, 118:01, 220:01, 437:01, 453:01, 521:01 *38:01 *111:01, 118:01, 120:01N, 437:01 *220:01 *38:01, 241:01 *64:01N
45^{4,7}	120 bp 160 bp 190 bp 240 bp	430 bp	*46:01:01-46:01:02, 80:01, 86:01, 108:01, 164:01, 214:01, 235:01, 254:01, 332:01, 355:01, 508:01, 540:01, 555:01, 581:01, 601:01 *253:01 *39:01, 49:01, 96:01, 117:01, 158:01, 172:01, 354:01:01-354:01:02, 440:01, 441:01, 474:01, 480:01, 531:01, 561:01, 584:01 *115:01, 240:01
46⁴	75 bp 210 bp	430 bp	*41:01:01-41:01:02, 60:01, 69:01, 83:01, 136:01, 204:01, 205:01, 229:01, 309:01, 581:01 *41:01:01-41:01:02, 60:01, 83:01, 96:01, 147:01, 179:01, 229:01, 299:01, 303:01, 309:01, 322:01, 581:01

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

47⁵	165 bp 215 bp	430 bp	*44:01, 114:01, 265:01, 394:01, 495:01, 599:01 *140:01
48⁴	115 bp 210 bp 280 bp	430 bp	*56:01, 66:01, 76:01, 92:01, 110:01, 125:01, 156:01, 207:01, 288:01, 294:01, 470:01, 566:01 *61:01N *85:01, 515:01
49^{4,7}	95 bp 135 bp 210 bp	430 bp	*149:01 *198:01, 290:01, 343:01, 354:01:01-354:01:02, 370:01, 375:01, 387:01, 389:01 *143:01, 251:01, 552:01
50⁷	160 bp 210 bp	430 bp	*144:01, 146:01, 542:01 *01:01:01-01:01:02, 01:01:04-01:01:06, 18:01, 89:01, 90:01:01- 90:01:02, 118:01, 122:01, 127:01, 158:01, 159:01N, 162:01, 198:01, 199:01, 200:01, 201:01, 220:01, 246:01, 247:01, 248:01, 249:01, 267:01, 290:01, 291:01, 292:01, 315:01, 316:01, 326:01, 327:01, 346:01, 347:01, 369:01, 387:01, 403:01N, 417:01, 436:01, 440:01, 462:01, 481:01, 483:01, 536:01, 542:01, 543:01, 561:01, 599:01, 608:01
51	170 bp 225 bp	430 bp	*145:01, 382:01N *452:01, 570:01N
52	130 bp 160 bp 215 bp	430 bp	*151:01 *511:01 *165:01, 289:01, 452:01, 570:01N
53⁴	90 bp 155 bp 180 bp 205 bp	430 bp	*157:01, 321:01 *221:01, 501:01 *242:01, 391:01, 467:01 *153:01
54⁴	115 bp 185 bp 210 bp	430 bp	*161:01N, 505:01, 507:01N, 546:01 *160:01, 454:01 *159:01N, 328:01N
55	135 bp 165 bp 190 bp	430 bp	*155:01:01-155:01:02 *382:01N, 511:01 *115:01, 218:01N, 393:01
56	150 bp 180 bp 230 bp	430 bp	*174:01 *84:01, 148:01 *170:01, 239:01, 260:01, 487:01
57⁸	255 bp	430 bp	*04:02:01:01-04:02:08, 05:01:03 [?] -05:01:06 [?] , 06:01:02 [?] -06:01:03 [?] , 08:01 [?] , 09:01:02 [?] -09:01:04 [?] , 10:01:02 [?] -10:01:03 [?] , 11:01:02 [?] - 11:01:03 [?] , 20:01:02 [?] -20:01:03 [?] , 22:01 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 26:01:03 [?] , 29:01 [?] , 31:01 [?] , 32:01 [?] , 34:01 [?] , 35:01:01 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 59:01, 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01:01 [?] -65:01:02 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01:01 [?] -71:01:02 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 86:01 [?] , 87:01 [?] , 89:01 [?] , 90:01:01 [?] -90:01:02 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 122:01 [?] , 125:01 [?] , 126:01, 127:01 [?] , 128:01 [?] , 129:01 [?] , 138:01, 139:01 [?] , 140:01 [?] , 142:01 [?] , 143:01 [?] , 144:01 [?] , 145:01 [?] , 146:01 [?] , 147:01 [?] , 148:01 [?] , 149:01 [?] , 150:01 [?] , 151:01 [?] , 153:01 [?] , 154:01N [?] , 155:01:01 [?] -155:01:02 [?] , 156:01 [?] , 157:01 [?] , 158:01 [?] , 159:01N [?] , 160:01 [?] , 161:01N [?] , 163:01 [?] , 164:01 [?] , 165:01 [?] , 166:01 [?] , 167:01 [?] , 169:01 [?] , 170:01 [?] , 171:01 [?] , 172:01 [?] , 173:01 [?] , 174:01 [?] , 175:01 [?] , 176:01 [?] ,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

177:01[?], 178:01[?], 179:01[?], 180:01[?], 181:01[?], 182:01[?], 183:01[?],
 184:01[?], 185:01[?], 186:01[?], 187:01[?], 188:01[?], 189:01[?], 190:01[?],
 191:01[?], 192:01[?], 193:01[?], 194:01[?], 195:01[?], 196:01[?], 197:01[?],
 198:01[?], 199:01[?], 200:01[?], 201:01[?], 202:01[?], 203:01[?], 204:01[?],
 205:01[?], 206:01[?], 207:01[?], 208:01[?], 209:01[?], 210:01[?], 211:01[?],
 212:01[?], 213:01[?], 214:01[?], 215:01[?], 216:01N[?], 217:01[?], 218:01N[?],
 219:01[?], 220:01[?], 221:01[?], 222:01[?], 223:01[?], 224:01[?], 226:01[?],
 227:01[?], 228:01[?], 229:01[?], 230:01[?], 231:01[?], 232:01[?], 233:01[?],
 234:01[?], 235:01[?], 236:01:01[?]-236:01:02[?], 237:01[?], 238:01[?], 239:01[?],
 240:01[?], 241:01[?], 242:01[?], 243:01[?], 244:01[?], 245:01[?], 246:01[?],
 247:01[?], 248:01[?], 249:01[?], 250:01[?], 251:01[?], 252:01[?], 253:01[?],
 254:01[?], 255:01[?], 256:01[?], 257:01[?], 258:01[?], 259:01[?], 260:01[?], 261:01[?],
 262:01[?], 263:01[?], 264:01[?], 265:01[?], 266:01[?], 267:01[?], 268:01[?],
 269:01[?], 270:01[?], 271:01[?], 272:01[?], 273:01[?], 274:01[?], 275:01[?],
 276:01[?], 277:01[?], 278:01[?], 279:01[?], 280:01[?], 281:01[?], 282:01[?],
 283:01[?], 284:01[?], 285:01[?], 286:01[?], 287:01[?], 288:01[?], 289:01[?],
 290:01[?], 291:01[?], 292:01[?], 293:01[?], 294:01[?], 295:01[?], 297:01[?],
 298:01[?], 299:01[?], 300:01[?], 301:01[?], 302:01[?], 303:01[?], 304:01[?],
 305:01[?], 306:01[?], 307:01[?], 308:01[?], 309:01[?], 310:01[?], 311:01[?],
 312:01[?], 313:01[?], 314:01[?], 315:01[?], 316:01[?], 317:01[?], 318:01[?],
 319:01[?], 320:01[?], 321:01[?], 322:01[?], 323:01[?], 324:01[?], 325:01[?],
 326:01[?], 327:01[?], 328:01N[?], 329:01[?], 330:01[?], 331:01[?], 332:01[?],
 333:01[?], 334:01[?], 335:01[?], 336:01[?], 337:01[?], 338:01[?], 339:01[?],
 340:01[?], 341:01[?], 342:01[?], 343:01[?], 344:01[?], 345:01[?], 346:01[?],
 347:01[?], 348:01:01[?]-348:01:02[?], 349:01[?], 351:01[?], 354:01:01[?]-
 354:01:02[?], 355:01[?], 356:01[?], 357:01N[?], 358:01[?], 359:01[?], 360:01[?],
 361:01[?], 362:01[?], 363:01[?], 364:01[?], 365:01[?], 366:01[?], 367:01[?],
 368:01[?], 369:01[?], 370:01[?], 371:01[?], 372:01[?], 373:01[?], 374:01[?],
 375:01[?], 376:01[?], 377:01[?], 378:01[?], 379:01[?], 380:01[?], 381:01[?],
 382:01N[?], 383:01[?], 384:01[?], 385:01[?], 386:01[?], 387:01[?], 388:01[?],
 389:01[?], 390:01[?], 391:01[?], 392:01[?], 393:01[?], 394:01[?], 395:01[?],
 396:01[?], 397:01[?], 399:01[?], 400:01[?], 401:01N[?], 402:01[?], 403:01N[?],
 404:01[?], 405:01[?], 406:01[?], 407:01[?], 408:01[?], 409:01[?], 410:01[?],
 411:01[?], 412:01[?], 413:01[?], 416:01[?], 418:01[?], 419:01[?], 420:01[?], 421:01[?],
 422:01[?], 423:01:01[?]-423:01:02[?], 424:01[?], 425:01[?], 426:01[?], 427:01[?],
 428:01[?], 429:01[?], 430:01[?], 431:01[?], 432:01[?], 433:01[?], 434:01[?],
 435:01[?], 436:01[?], 437:01[?], 438:01[?], 439:01[?], 441:01[?], 442:01[?],
 443:01[?], 444:01[?], 445:01[?], 446:01[?], 447:01[?], 448:01[?], 449:01[?],
 450:01N[?], 451:01[?], 452:01[?], 453:01[?], 454:01[?], 455:01N[?], 456:01[?],
 457:01[?], 458:01[?], 460:01[?], 462:01[?], 465:01[?], 466:01[?], 467:01[?], 468:01[?],
 469:01[?], 470:01[?], 471:01[?], 472:01[?], 473:01[?], 474:01[?], 475:01[?],
 476:01[?], 477:01[?], 478:01[?], 479:01[?], 480:01[?], 481:01[?], 482:01[?],
 483:01[?], 484:01[?], 485:01[?], 486:01[?], 487:01[?], 488:01[?], 489:01[?],
 490:01[?], 491:01[?], 492:01[?], 493:01[?], 494:01[?], 495:01[?], 496:01[?],
 497:01[?], 499:01[?], 500:01[?], 501:01[?], 502:01[?], 503:01[?], 504:01[?],
 505:01[?], 506:01[?], 507:01N[?], 508:01[?], 509:01[?], 510:01[?], 511:01[?],
 512:01[?], 513:01[?], 514:01[?], 515:01[?], 516:01[?], 517:01[?], 520:01[?],
 521:01[?], 522:01[?], 523:01[?], 524:01[?], 525:01[?], 526:01[?], 527:01[?],
 528:01[?], 529:01[?], 530:01[?], 531:01[?], 532:01[?], 537:01[?], 538:01[?],
 539:01[?], 540:01[?], 541:01[?], 542:01[?], 543:01[?], 544:01[?], 545:01[?],
 546:01[?], 548:01[?], 549:01[?], 550:01[?], 551:01N[?], 552:01[?], 553:01[?],
 554:01[?], 555:01[?], 556:01[?], 557:01[?], 558:01[?], 559:01[?], 560:01[?],
 561:01[?], 562:01[?], 563:01[?], 564:01[?], 565:01[?], 566:01[?], 567:01[?],
 568:01[?], 569:01[?], 570:01N[?], 573:01[?], 574:01[?], 575:01[?], 576:01[?],
 577:01[?], 578:01[?], 579:01[?], 580:01[?], 581:01[?], 582:01[?], 583:01[?],
 586:01[?], 587:01[?], 588:01[?], 589:01[?], 590:01[?], 591:01[?], 592:01[?],
 593:01[?], 594:01[?], 595:01[?], 596:01[?], 597:01[?], 598:01N[?], 599:01[?],

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

600:01[?], 601:01[?], 602:01[?], 603:01[?], 604:01[?], 605:01[?], 606:01[?],
 607:01[?], 608:01[?], 609:01[?], 610:01[?], 611:01[?], 612:01[?]

58 ^{4,9}	95 bp	430 bp	*08:01 [?] , 09:01:02 [?] -09:01:04 [?] , 10:01:02 [?] -10:01:03 [?] , 11:01:02 [?] - 11:01:04 [?] , 13:01:02 [?] , 14:01:02 [?] -14:01:03 [?] , 20:01:01 [?] -20:01:03 [?] , 22:01 [?] , 23:01:01 [?] -23:01:02 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 26:01:03 [?] , 28:01 [?] , 29:01 [?] , 30:01 [?] , 31:01 [?] , 32:01 [?] , 33:01 [?] , 34:01 [?] , 35:01:01 [?] - 35:01:02 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 46:01:02 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 50:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 55:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01:01 [?] -65:01:02 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01:01 [?] -71:01:02 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 85:01 [?] , 86:01 [?] , 87:01 [?] , 88:01 [?] , 89:01 [?] , 90:01:01 [?] -90:01:02 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 107:01 [?] , 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 121:01 [?] , 122:01 [?] , 123:01 [?] , 124:01 [?] , 125:01 [?] , 126:01 [?] , 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01 [?] , 132:01 [?] , 133:01 [?] , 134:01 [?] , 135:01 [?] , 136:01 [?] , 137:01 [?] , 138:01 [?] , 139:01 [?] , 140:01 [?] , 141:01 [?] , 142:01 [?] , 143:01 [?] , 144:01 [?] , 145:01 [?] , 146:01 [?] , 147:01 [?] , 148:01 [?] , 149:01 [?] , 150:01 [?] , 151:01 [?] , 152:01 [?] , 153:01 [?] , 154:01N [?] , 155:01:01 [?] - 155:01:02 [?] , 156:01 [?] , 157:01 [?] , 158:01 [?] , 159:01N [?] , 160:01 [?] , 161:01N [?] , 162:01 [?] , 163:01 [?] , 164:01 [?] , 165:01 [?] , 166:01 [?] , 167:01 [?] , 168:01 [?] , 169:01 [?] , 170:01 [?] , 171:01 [?] , 172:01 [?] , 173:01 [?] , 174:01 [?] , 175:01 [?] , 176:01 [?] , 177:01 [?] , 178:01 [?] , 179:01 [?] , 180:01 [?] , 181:01 [?] , 182:01 [?] , 183:01 [?] , 184:01 [?] , 185:01 [?] , 186:01 [?] , 187:01 [?] , 188:01 [?] , 189:01 [?] , 190:01 [?] , 191:01 [?] , 192:01 [?] , 193:01 [?] , 194:01 [?] , 195:01 [?] , 196:01 [?] , 197:01 [?] , 198:01 [?] , 199:01 [?] , 200:01 [?] , 201:01 [?] , 202:01 [?] , 203:01 [?] , 204:01 [?] , 205:01 [?] , 206:01 [?] , 207:01 [?] , 208:01 [?] , 209:01 [?] , 210:01 [?] , 211:01 [?] , 212:01 [?] , 213:01 [?] , 214:01 [?] , 215:01 [?] , 216:01N [?] , 217:01 [?] , 218:01N [?] , 219:01 [?] , 220:01 [?] , 221:01 [?] , 222:01 [?] , 223:01 [?] , 224:01 [?] , 225:01 [?] , 226:01 [?] , 227:01 [?] , 228:01 [?] , 229:01 [?] , 230:01 [?] , 231:01 [?] , 232:01 [?] , 233:01 [?] , 234:01 [?] , 235:01 [?] , 236:01:01 [?] -236:01:02 [?] , 237:01 [?] , 238:01 [?] , 239:01 [?] , 240:01 [?] , 241:01 [?] , 242:01 [?] , 243:01 [?] , 244:01 [?] , 245:01 [?] , 246:01 [?] , 247:01 [?] , 248:01 [?] , 249:01 [?] , 250:01 [?] , 251:01 [?] , 252:01 [?] , 253:01 [?] , 254:01 [?] , 255:01 [?] , 256:01 [?] , 257:01 [?] , 258:01 [?] , 259:01 [?] , 260:01 [?] , 261:01 [?] , 262:01 [?] , 263:01 [?] , 264:01 [?] , 265:01 [?] , 266:01 [?] , 267:01 [?] , 268:01 [?] , 269:01 [?] , 270:01 [?] , 271:01 [?] , 272:01 [?] , 273:01 [?] , 274:01 [?] , 275:01 [?] , 276:01 [?] , 277:01 [?] , 278:01 [?] , 279:01 [?] , 280:01 [?] , 281:01 [?] , 282:01 [?] , 283:01 [?] , 284:01 [?] , 285:01 [?] , 286:01 [?] , 287:01 [?] , 288:01 [?] , 289:01 [?] , 290:01 [?] , 291:01 [?] , 292:01 [?] , 293:01 [?] ,
-------------------	-------	--------	--

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			294:01 [?] , 295:01 [?] , 296:01 [?] , 297:01 [?] , 298:01 [?] , 299:01 [?] , 300:01 [?] , 301:01 [?] , 302:01 [?] , 303:01 [?] , 304:01 [?] , 305:01 [?] , 306:01 [?] , 307:01 [?] , 308:01 [?] , 309:01 [?] , 310:01 [?] , 311:01 [?] , 312:01 [?] , 313:01 [?] , 314:01 [?] , 315:01 [?] , 316:01 [?] , 317:01 [?] , 318:01 [?] , 319:01 [?] , 320:01 [?] , 321:01 [?] , 322:01 [?] , 323:01 [?] , 324:01 [?] , 325:01 [?] , 326:01 [?] , 327:01 [?] , 328:01N [?] , 329:01 [?] , 330:01 [?] , 331:01 [?] , 332:01 [?] , 333:01 [?] , 334:01 [?] , 335:01 [?] , 336:01 [?] , 337:01 [?] , 338:01 [?] , 339:01 [?] , 340:01 [?] , 341:01 [?] , 342:01 [?] , 343:01 [?] , 344:01 [?] , 345:01 [?] , 346:01 [?] , 347:01 [?] , 348:01:01 [?] -348:01:02 [?] , 349:01 [?] , 350:01 [?] , 351:01 [?] , 352:01 [?] , 353:01 [?] , 354:01:01 [?] -354:01:02 [?] , 355:01 [?] , 356:01 [?] , 357:01N [?] , 358:01 [?] , 359:01 [?] , 360:01 [?] , 361:01 [?] , 362:01 [?] , 363:01 [?] , 364:01 [?] , 365:01 [?] , 366:01 [?] , 367:01 [?] , 368:01 [?] , 369:01 [?] , 370:01 [?] , 371:01 [?] , 372:01 [?] , 373:01 [?] , 374:01 [?] , 375:01 [?] , 376:01 [?] , 377:01 [?] , 378:01 [?] , 379:01 [?] , 380:01 [?] , 381:01 [?] , 382:01N [?] , 383:01 [?] , 384:01 [?] , 385:01 [?] , 386:01 [?] , 387:01 [?] , 388:01 [?] , 389:01 [?] , 390:01 [?] , 391:01 [?] , 392:01 [?] , 393:01 [?] , 394:01 [?] , 395:01 [?] , 396:01 [?] , 397:01 [?] , 399:01 [?] , 400:01 [?] , 401:01N [?] , 402:01 [?] , 403:01N [?] , 404:01 [?] , 405:01 [?] , 406:01 [?] , 407:01 [?] , 408:01 [?] , 409:01 [?] , 410:01 [?] , 411:01 [?] , 412:01 [?] , 413:01 [?] , 414:01 [?] , 415:01 [?] , 416:01 [?] , 417:01 [?] , 418:01 [?] , 419:01 [?] , 420:01 [?] , 421:01 [?] , 422:01 [?] , 423:01:01 [?] -423:01:02 [?] , 424:01 [?] , 425:01 [?] , 426:01 [?] , 427:01 [?] , 428:01 [?] , 429:01 [?] , 430:01 [?] , 431:01 [?] , 432:01 [?] , 433:01 [?] , 434:01 [?] , 435:01 [?] , 436:01 [?] , 437:01 [?] , 438:01 [?] , 439:01 [?] , 440:01 [?] , 441:01 [?] , 442:01 [?] , 443:01 [?] , 444:01 [?] , 445:01 [?] , 446:01 [?] , 447:01 [?] , 448:01 [?] , 449:01 [?] , 450:01N [?] , 451:01 [?] , 452:01 [?] , 453:01 [?] , 454:01 [?] , 455:01N [?] , 456:01 [?] , 457:01 [?] , 458:01 [?] , 459:01 [?] , 460:01 [?] , 461:01 [?] , 462:01 [?] , 465:01 [?] , 466:01 [?] , 467:01 [?] , 468:01 [?] , 469:01 [?] , 470:01 [?] , 471:01 [?] , 472:01 [?] , 473:01 [?] , 474:01 [?] , 475:01 [?] , 476:01 [?] , 477:01 [?] , 478:01 [?] , 479:01 [?] , 480:01 [?] , 481:01 [?] , 482:01 [?] , 483:01 [?] , 484:01 [?] , 485:01 [?] , 486:01 [?] , 487:01 [?] , 488:01 [?] , 489:01 [?] , 490:01 [?] , 491:01 [?] , 492:01 [?] , 493:01 [?] , 494:01 [?] , 495:01 [?] , 496:01 [?] , 497:01 [?] , 498:01 [?] , 499:01 [?] , 500:01 [?] , 501:01 [?] , 502:01 [?] , 503:01 [?] , 504:01 [?] , 505:01 [?] , 506:01 [?] , 507:01N [?] , 508:01 [?] , 509:01 [?] , 510:01 [?] , 511:01 [?] , 512:01 [?] , 513:01 [?] , 514:01 [?] , 515:01 [?] , 516:01 [?] , 517:01 [?] , 520:01 [?] , 521:01 [?] , 522:01 [?] , 523:01 [?] , 524:01 [?] , 525:01 [?] , 526:01 [?] , 527:01 [?] , 528:01 [?] , 529:01 [?] , 530:01 [?] , 531:01 [?] , 532:01 [?] , 533:01 [?] , 534:01 [?] , 535:01 [?] , 536:01 [?] , 537:01 [?] , 538:01 [?] , 539:01 [?] , 540:01 [?] , 541:01 [?] , 542:01 [?] , 543:01 [?] , 544:01 [?] , 545:01 [?] , 546:01 [?] , 548:01 [?] , 549:01 [?] , 550:01 [?] , 551:01N [?] , 552:01 [?] , 553:01 [?] , 554:01 [?] , 555:01 [?] , 556:01 [?] , 557:01 [?] , 558:01 [?] , 559:01 [?] , 560:01 [?] , 561:01 [?] , 562:01 [?] , 563:01 [?] , 564:01 [?] , 565:01 [?] , 566:01 [?] , 567:01 [?] , 568:01 [?] , 569:01 [?] , 570:01N [?] , 571:01 [?] , 572:01 [?] , 573:01 [?] , 574:01 [?] , 575:01 [?] , 576:01 [?] , 577:01 [?] , 578:01 [?] , 579:01 [?] , 580:01 [?] , 581:01 [?] , 582:01 [?] , 583:01 [?] , 585:01 [?] , 586:01 [?] , 587:01 [?] , 588:01 [?] , 589:01 [?] , 590:01 [?] , 591:01 [?] , 592:01 [?] , 593:01 [?] , 594:01 [?] , 595:01 [?] , 596:01 [?] , 597:01 [?] , 598:01N [?] , 599:01 [?] , 600:01 [?] , 601:01 [?] , 602:01 [?] , 603:01 [?] , 604:01 [?] , 605:01 [?] , 606:01 [?] , 607:01 [?] , 608:01 [?] , 609:01 [?] , 610:01 [?] , 611:01 [?] , 612:01 [?]
59^{4,10}	80 bp	430 bp	*05:01:01-05:01:07, 08:01 [?] , 09:01:02 [?] -09:01:04 [?] , 10:01:02 [?] -10:01:03 [?] , 11:01:02 [?] -11:01:04 [?] , 13:01:02 [?] , 14:01:02 [?] -14:01:03 [?] , 15:01:02 [?] , 19:01: 20:01:01 [?] -20:01:03 [?] , 22:01 [?] , 23:01:01 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 26:01:03 [?] , 28:01 [?] , 29:01 [?] , 30:01 [?] , 31:01 [?] , 32:01 [?] , 33:01 [?] , 34:01 [?] , 35:01:01 [?] -35:01:02 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 46:01:02 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 50:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 55:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01:01 [?] -65:01:02 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01:01 [?] -71:01:02 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 85:01 [?] , 86:01 [?] , 87:01 [?] , 88:01 [?] , 89:01 [?] , 90:01:01 [?] -90:01:02 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?]

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

101:01[?], 102:01[?], 103:01[?], 104:01, 108:01[?], 109:01[?], 110:01[?], 111:01[?],
 112:01[?], 113:01[?], 114:01[?], 115:01[?], 116:01[?], 117:01[?], 118:01[?],
 119:01[?], 120:01N[?], 121:01[?], 122:01[?], 123:01[?], 124:01[?], 125:01[?],
 126:01[?], 127:01[?], 128:01[?], 129:01[?], 130:01[?], 132:01[?], 133:01[?],
 134:01[?], 137:01[?], 139:01[?], 140:01[?], 141:01[?], 142:01[?], 143:01[?],
 144:01[?], 145:01[?], 146:01[?], 147:01[?], 148:01[?], 149:01[?], 150:01[?],
 151:01[?], 152:01[?], 153:01[?], 154:01N[?], 155:01:01[?]-155:01:02[?], 156:01[?],
 157:01[?], 158:01[?], 159:01N[?], 160:01[?], 161:01N[?], 163:01[?], 164:01[?],
 165:01[?], 166:01[?], 167:01[?], 168:01[?], 169:01[?], 170:01[?], 171:01[?],
 172:01[?], 173:01[?], 174:01[?], 175:01[?], 176:01[?], 177:01[?], 178:01[?],
 179:01[?], 180:01[?], 181:01[?], 182:01[?], 183:01[?], 184:01[?], 185:01[?],
 186:01[?], 187:01[?], 188:01[?], 189:01[?], 190:01[?], 191:01[?], 192:01[?],
 193:01[?], 194:01[?], 195:01[?], 196:01[?], 197:01[?], 198:01[?], 199:01[?],
 200:01[?], 201:01[?], 202:01[?], 203:01[?], 204:01[?], 205:01[?], 206:01[?],
 207:01[?], 208:01[?], 209:01[?], 210:01[?], 211:01[?], 212:01[?], 213:01[?],
 214:01[?], 215:01[?], 216:01N[?], 217:01[?], 218:01N[?], 219:01[?], 220:01[?],
 221:01[?], 222:01[?], 223:01[?], 224:01[?], 225:01[?], 226:01[?], 227:01[?],
 228:01[?], 229:01[?], 230:01[?], 231:01[?], 232:01[?], 233:01[?], 234:01[?],
 235:01[?], 236:01:01[?]-236:01:02[?], 237:01[?], 238:01[?], 239:01[?], 240:01[?],
 241:01[?], 242:01[?], 243:01[?], 244:01[?], 245:01[?], 246:01[?], 247:01[?],
 248:01[?], 249:01[?], 250:01[?], 251:01[?], 252:01[?], 253:01[?], 254:01[?],
 255:01[?], 256:01[?], 258:01[?], 259:01[?], 260:01[?], 261:01[?], 262:01[?],
 263:01[?], 264:01[?], 265:01[?], 266:01[?], 267:01[?], 268:01[?], 269:01[?],
 270:01[?], 271:01[?], 272:01[?], 273:01[?], 274:01[?], 275:01[?], 276:01[?],
 277:01[?], 278:01[?], 279:01[?], 280:01[?], 281:01[?], 282:01[?], 283:01[?],
 284:01[?], 285:01[?], 286:01[?], 287:01[?], 288:01[?], 289:01[?], 290:01[?],
 291:01[?], 292:01[?], 293:01[?], 294:01[?], 295:01[?], 297:01[?], 298:01[?],
 299:01[?], 300:01[?], 301:01[?], 302:01[?], 303:01[?], 304:01[?], 305:01[?],
 306:01[?], 307:01[?], 308:01[?], 309:01[?], 310:01[?], 311:01[?], 312:01[?],
 313:01[?], 314:01[?], 315:01[?], 316:01[?], 317:01[?], 318:01[?], 319:01[?],
 320:01[?], 321:01[?], 322:01[?], 323:01[?], 324:01[?], 325:01[?], 326:01[?],
 327:01[?], 328:01N[?], 329:01[?], 330:01[?], 331:01[?], 332:01[?], 333:01[?],
 334:01[?], 335:01[?], 336:01[?], 337:01[?], 338:01[?], 339:01[?], 340:01[?],
 341:01[?], 342:01[?], 343:01[?], 344:01[?], 345:01[?], 346:01[?], 347:01[?],
 348:01:01[?]-348:01:02[?], 349:01[?], 354:01:01[?]-354:01:02[?], 355:01[?],
 356:01[?], 357:01N[?], 358:01[?], 359:01[?], 360:01[?], 361:01[?], 362:01[?],
 363:01[?], 364:01[?], 365:01[?], 366:01[?], 367:01[?], 368:01[?], 369:01[?],
 370:01[?], 371:01[?], 372:01[?], 373:01[?], 374:01[?], 375:01[?], 376:01[?],
 377:01[?], 378:01[?], 379:01[?], 380:01[?], 381:01[?], 382:01N[?], 383:01[?],
 384:01[?], 385:01[?], 386:01[?], 387:01[?], 388:01[?], 389:01[?], 390:01[?],
 391:01[?], 392:01[?], 393:01[?], 394:01[?], 395:01[?], 396:01[?], 397:01[?],
 399:01[?], 400:01[?], 401:01N[?], 402:01[?], 403:01N[?], 404:01[?], 405:01[?],
 406:01[?], 407:01[?], 408:01[?], 409:01[?], 410:01[?], 411:01[?], 412:01[?],
 413:01[?], 414:01, 418:01[?], 419:01[?], 420:01[?], 421:01[?], 422:01[?],
 423:01:01[?]-423:01:02[?], 424:01[?], 425:01[?], 426:01[?], 427:01[?], 428:01[?],
 429:01[?], 430:01[?], 431:01[?], 432:01[?], 433:01[?], 434:01[?], 435:01[?],
 436:01[?], 437:01[?], 438:01[?], 439:01[?], 441:01[?], 442:01[?], 443:01[?],
 444:01[?], 445:01[?], 446:01[?], 447:01[?], 448:01[?], 449:01[?], 450:01N[?],
 451:01[?], 452:01[?], 453:01[?], 454:01[?], 455:01N[?], 456:01[?], 457:01[?],
 458:01[?], 465:01[?], 466:01[?], 467:01[?], 468:01[?], 469:01[?], 470:01[?],
 471:01[?], 472:01[?], 473:01[?], 474:01[?], 475:01[?], 476:01[?], 477:01[?],
 478:01[?], 479:01[?], 480:01[?], 481:01[?], 482:01[?], 483:01[?], 484:01[?],
 485:01[?], 486:01[?], 487:01[?], 488:01[?], 489:01[?], 490:01[?], 491:01[?],
 492:01[?], 493:01[?], 494:01[?], 495:01[?], 496:01[?], 497:01[?], 499:01[?],
 500:01[?], 501:01[?], 502:01[?], 503:01[?], 504:01[?], 505:01[?], 506:01[?],
 507:01N[?], 508:01[?], 509:01[?], 510:01[?], 511:01[?], 512:01[?], 513:01[?],
 514:01[?], 515:01[?], 516:01[?], 517:01[?], 519:01, 520:01[?], 521:01[?], 522:01[?],

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			523:01 [?] , 524:01 [?] , 525:01 [?] , 526:01 [?] , 527:01 [?] , 528:01 [?] , 529:01 [?] , 530:01 [?] , 531:01 [?] , 532:01 [?] , 533:01 [?] , 534:01 [?] , 535:01 [?] , 536:01 [?] , 537:01 [?] , 538:01 [?] , 539:01 [?] , 540:01 [?] , 541:01 [?] , 542:01 [?] , 543:01 [?] , 544:01 [?] , 545:01 [?] , 546:01 [?] , 547:01 [?] , 548:01 [?] , 549:01 [?] , 550:01 [?] , 551:01N [?] , 552:01 [?] , 553:01 [?] , 554:01 [?] , 555:01 [?] , 556:01 [?] , 557:01 [?] , 558:01 [?] , 559:01 [?] , 560:01 [?] , 561:01 [?] , 562:01 [?] , 563:01 [?] , 564:01 [?] , 565:01 [?] , 566:01 [?] , 567:01 [?] , 568:01 [?] , 569:01 [?] , 570:01N [?] , 572:01 [?] , 573:01 [?] , 574:01 [?] , 575:01 [?] , 576:01 [?] , 577:01 [?] , 578:01 [?] , 579:01 [?] , 580:01 [?] , 581:01 [?] , 582:01 [?] , 583:01 [?] , 586:01 [?] , 587:01 [?] , 588:01 [?] , 589:01 [?] , 590:01 [?] , 591:01 [?] , 592:01 [?] , 593:01 [?] , 594:01 [?] , 595:01 [?] , 596:01 [?] , 597:01 [?] , 598:01N [?] , 599:01 [?] , 600:01 [?] , 601:01 [?] , 602:01 [?] , 603:01 [?] , 604:01 [?] , 605:01 [?] , 606:01 [?] , 607:01 [?] , 608:01 [?] , 609:01 [?] , 610:01 [?] , 611:01 [?] , 612:01 [?]
60¹¹	255 bp	430 bp	*02:01:02-02:02, 04:01:01:01-04:01:32, 08:01 [?] , 09:01:02 [?] -09:01:04 [?] , 10:01:02 [?] -10:01:03 [?] , 11:01:02 [?] -11:01:04 [?] , 13:01:02 [?] , 14:01:02 [?] - 14:01:03 [?] , 15:01:02 [?] , 17:01, 22:01 [?] , 23:01:01, 23:01:02 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 26:01:03 [?] , 28:01, 29:01 [?] , 30:01, 31:01 [?] , 32:01 [?] , 33:01, 34:01 [?] , 35:01:01 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 39:01, 40:01, 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 46:01:01-46:01:02 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 55:01, 56:01 [?] , 57:01 [?] , 58:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01:01 [?] -65:01:02 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01:01 [?] -71:01:02 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 86:01 [?] , 87:01 [?] , 89:01 [?] , 90:01:01 [?] -90:01:02 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 105:01, 106:01, 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 121:01, 122:01 [?] , 123:01, 124:01, 125:01 [?] , 127:01 [?] , 128:01 [?] , 129:01 [?] , 133:01, 134:01, 137:01, 139:01 [?] , 140:01 [?] , 141:01, 142:01 [?] , 143:01 [?] , 144:01 [?] , 145:01 [?] , 146:01 [?] , 147:01 [?] , 148:01 [?] , 149:01 [?] , 150:01 [?] , 151:01 [?] , 153:01 [?] , 154:01N [?] , 155:01:01 [?] -155:01:02 [?] , 156:01 [?] , 157:01 [?] , 158:01 [?] , 159:01N [?] , 160:01 [?] , 161:01N [?] , 162:01, 163:01 [?] , 164:01 [?] , 165:01 [?] , 166:01 [?] , 167:01 [?] , 168:01, 169:01 [?] , 170:01 [?] , 171:01 [?] , 172:01 [?] , 173:01 [?] , 174:01 [?] , 175:01 [?] , 176:01 [?] , 177:01 [?] , 178:01 [?] , 179:01 [?] , 180:01 [?] , 181:01 [?] , 182:01 [?] , 183:01 [?] , 184:01 [?] , 185:01 [?] , 186:01 [?] , 187:01 [?] , 188:01 [?] , 189:01 [?] , 190:01 [?] , 191:01 [?] , 192:01 [?] , 193:01 [?] , 194:01 [?] , 195:01 [?] , 196:01 [?] , 197:01 [?] , 198:01 [?] , 199:01 [?] , 200:01 [?] , 201:01 [?] , 202:01 [?] , 203:01 [?] , 204:01 [?] , 205:01 [?] , 206:01 [?] , 207:01 [?] , 208:01 [?] , 209:01 [?] , 210:01 [?] , 211:01 [?] , 212:01 [?] , 213:01 [?] , 214:01 [?] , 215:01 [?] , 216:01N [?] , 217:01 [?] , 218:01N [?] , 219:01 [?] , 220:01 [?] , 221:01 [?] , 222:01 [?] , 223:01 [?] , 224:01 [?] , 225:01, 226:01 [?] , 227:01 [?] , 228:01 [?] , 229:01 [?] , 230:01 [?] , 231:01 [?] , 232:01 [?] , 233:01 [?] , 234:01 [?] , 235:01 [?] , 236:01:01 [?] -236:01:02 [?] , 237:01 [?] , 238:01 [?] , 239:01 [?] , 240:01 [?] , 241:01 [?] , 242:01 [?] , 243:01 [?] , 244:01 [?] , 245:01 [?] , 246:01 [?] , 247:01 [?] , 248:01 [?] , 249:01 [?] , 250:01 [?] , 251:01 [?] , 252:01 [?] , 253:01 [?] , 254:01 [?] , 255:01 [?] , 256:01 [?] , 258:01 [?] , 259:01 [?] , 260:01 [?] , 261:01 [?] , 262:01 [?] , 263:01 [?] , 264:01 [?] , 265:01 [?] , 266:01 [?] , 267:01 [?] , 268:01 [?] , 269:01 [?] , 270:01 [?] , 271:01 [?] , 272:01 [?] , 273:01 [?] , 274:01 [?] , 275:01 [?] , 276:01 [?] , 277:01 [?] , 278:01 [?] , 279:01 [?] , 280:01 [?] , 281:01 [?] , 282:01 [?] , 283:01 [?] , 284:01 [?] , 285:01 [?] , 286:01 [?] , 287:01 [?] , 288:01 [?] , 289:01 [?] , 290:01 [?] , 291:01 [?] , 292:01 [?] , 293:01 [?] , 294:01 [?] , 295:01 [?] , 297:01 [?] , 298:01 [?] , 299:01 [?] , 300:01 [?] , 301:01 [?] , 302:01 [?] , 303:01 [?] , 304:01 [?] , 305:01 [?] , 306:01 [?] , 307:01 [?] , 308:01 [?] , 309:01 [?] , 310:01 [?] , 311:01 [?] , 312:01 [?] , 313:01 [?] , 314:01 [?] , 315:01 [?] , 316:01 [?] , 317:01 [?] , 318:01 [?] , 319:01 [?] , 320:01 [?] , 321:01 [?] , 322:01 [?] , 323:01 [?] , 324:01 [?] , 325:01 [?] , 326:01 [?] , 327:01 [?] , 328:01N [?] , 329:01 [?] , 330:01 [?] , 331:01 [?] , 332:01 [?] , 333:01 [?] , 334:01 [?] , 335:01 [?] , 336:01 [?] , 337:01 [?] , 338:01 [?] , 339:01 [?] , 340:01 [?] ,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			341:01 [?] , 342:01 [?] , 343:01 [?] , 344:01 [?] , 345:01 [?] , 346:01 [?] , 347:01 [?] , 348:01:01 [?] -348:01:02 [?] , 349:01 [?] , 354:01:01 [?] -354:01:02 [?] , 355:01 [?] , 356:01 [?] , 357:01N [?] , 358:01 [?] , 359:01 [?] , 360:01 [?] , 361:01 [?] , 362:01 [?] , 363:01 [?] , 364:01 [?] , 365:01 [?] , 366:01 [?] , 367:01 [?] , 368:01 [?] , 369:01 [?] , 370:01 [?] , 371:01 [?] , 372:01 [?] , 373:01 [?] , 374:01 [?] , 375:01 [?] , 376:01 [?] , 377:01 [?] , 378:01 [?] , 379:01 [?] , 380:01 [?] , 381:01 [?] , 382:01N [?] , 383:01 [?] , 384:01 [?] , 385:01 [?] , 386:01 [?] , 387:01 [?] , 388:01 [?] , 389:01 [?] , 390:01 [?] , 391:01 [?] , 392:01 [?] , 393:01 [?] , 394:01 [?] , 395:01 [?] , 396:01 [?] , 397:01 [?] , 398:01, 399:01 [?] , 400:01 [?] , 401:01N [?] , 402:01 [?] , 403:01N [?] , 404:01 [?] , 405:01 [?] , 406:01 [?] , 407:01 [?] , 408:01 [?] , 409:01 [?] , 410:01 [?] , 411:01 [?] , 412:01 [?] , 413:01 [?] , 415:01, 418:01 [?] , 419:01 [?] , 420:01 [?] , 421:01 [?] , 422:01 [?] , 423:01:01 [?] -423:01:02 [?] , 424:01 [?] , 425:01 [?] , 426:01 [?] , 427:01 [?] , 428:01 [?] , 429:01 [?] , 430:01 [?] , 431:01 [?] , 432:01 [?] , 433:01 [?] , 434:01 [?] , 435:01 [?] , 436:01 [?] , 437:01 [?] , 438:01 [?] , 439:01 [?] , 441:01 [?] , 442:01 [?] , 443:01 [?] , 444:01 [?] , 445:01 [?] , 446:01 [?] , 447:01 [?] , 448:01 [?] , 449:01 [?] , 450:01N [?] , 451:01 [?] , 452:01 [?] , 453:01 [?] , 454:01 [?] , 455:01N [?] , 456:01 [?] , 457:01 [?] , 458:01 [?] , 459:01, 464:01, 465:01 [?] , 466:01 [?] , 467:01 [?] , 468:01 [?] , 469:01 [?] , 470:01 [?] , 471:01 [?] , 472:01 [?] , 473:01 [?] , 474:01 [?] , 475:01 [?] , 476:01 [?] , 477:01 [?] , 478:01 [?] , 479:01 [?] , 480:01 [?] , 481:01 [?] , 482:01 [?] , 483:01 [?] , 484:01 [?] , 485:01 [?] , 486:01 [?] , 487:01 [?] , 488:01 [?] , 489:01 [?] , 490:01 [?] , 491:01 [?] , 492:01 [?] , 493:01 [?] , 494:01 [?] , 495:01 [?] , 496:01 [?] , 497:01 [?] , 499:01 [?] , 500:01 [?] , 501:01 [?] , 502:01 [?] , 503:01 [?] , 504:01 [?] , 505:01 [?] , 506:01 [?] , 507:01N [?] , 508:01 [?] , 509:01 [?] , 510:01 [?] , 511:01 [?] , 512:01 [?] , 513:01 [?] , 514:01 [?] , 515:01 [?] , 516:01 [?] , 517:01 [?] , 520:01 [?] , 521:01 [?] , 522:01 [?] , 523:01 [?] , 524:01 [?] , 525:01 [?] , 526:01 [?] , 527:01 [?] , 528:01 [?] , 529:01 [?] , 530:01 [?] , 531:01 [?] , 532:01 [?] , 534:01, 535:01, 537:01 [?] , 538:01 [?] , 539:01 [?] , 540:01 [?] , 541:01 [?] , 542:01 [?] , 543:01 [?] , 544:01 [?] , 545:01 [?] , 546:01 [?] , 548:01 [?] , 549:01 [?] , 550:01 [?] , 551:01N [?] , 552:01 [?] , 553:01 [?] , 554:01 [?] , 555:01 [?] , 556:01 [?] , 557:01 [?] , 558:01 [?] , 559:01 [?] , 560:01 [?] , 561:01 [?] , 562:01 [?] , 563:01 [?] , 564:01 [?] , 565:01 [?] , 566:01 [?] , 567:01 [?] , 568:01 [?] , 569:01 [?] , 570:01N [?] , 571:01, 573:01 [?] , 574:01 [?] , 575:01 [?] , 576:01 [?] , 577:01 [?] , 578:01 [?] , 579:01 [?] , 580:01 [?] , 581:01 [?] , 582:01 [?] , 583:01 [?] , 586:01 [?] , 587:01 [?] , 588:01 [?] , 589:01 [?] , 590:01 [?] , 591:01 [?] , 592:01 [?] , 593:01 [?] , 594:01 [?] , 595:01 [?] , 596:01 [?] , 597:01 [?] , 598:01N [?] , 599:01 [?] , 600:01 [?] , 601:01 [?] , 602:01 [?] , 603:01 [?] , 604:01 [?] , 605:01 [?] , 606:01 [?] , 607:01 [?] , 608:01 [?] , 609:01 [?] , 610:01 [?] , 611:01 [?] , 612:01 [?]
61	145 bp 225 bp	430 bp	*168:01 *459:01
62^{7,12}	260 bp	515 bp	*01:01:01-01:01:06, 03:01:01-03:01:08, 05:01:01-05:01:04, 05:01:05 [?] - 05:01:06 [?] , 05:01:07, 06:01:01, 06:01:02 [?] -06:01:03 [?] , 08:01 [?] , 09:01:01- 09:01:04, 10:01:01, 10:01:02 [?] -10:01:03 [?] , 11:01:01-11:01:04, 13:01:01- 13:01:02, 14:01:01, 14:01:02 [?] -14:01:03 [?] , 15:01:01 ^w , 15:01:02 [?] , 16:01:01-16:01:02, 18:01, 19:01, 20:01:01-20:01:02, 20:01:03 [?] , 21:01, 22:01 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 26:01:02, 26:01:03 [?] , 27:01, 29:01 [?] , 31:01 [?] , 32:01 [?] , 34:01 [?] , 35:01:01-35:01:02, 36:01 [?] , 37:01 [?] , 38:01 [?] , 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 45:01, 46:01:02 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 50:01, 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01:01 [?] -65:01:02 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01:01 [?] -71:01:02 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 85:01, 86:01 [?] , 87:01 [?] , 88:01, 89:01 [?] , 90:01:01 [?] -90:01:02 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 104:01, 107:01, 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 122:01 [?] , 125:01 [?] , 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01, 131:01, 132:01, 135:01, 136:01, 139:01 [?] , 140:01 [?] , 142:01 [?] , 143:01 [?] , 144:01 [?] , 145:01 [?] , 146:01 [?] , 147:01 [?] ,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

148:01[?], 149:01[?], 150:01[?], 151:01[?], 152:01, 153:01[?], 154:01N[?],
155:01:01[?]-155:01:02[?], 156:01[?], 157:01[?], 158:01[?], 159:01N[?], 160:01[?],
161:01N[?], 163:01[?], 164:01[?], 165:01[?], 166:01[?], 167:01[?], 169:01[?],
170:01[?], 171:01[?], 172:01[?], 173:01[?], 174:01[?], 175:01[?], 176:01[?],
177:01[?], 178:01[?], 179:01[?], 180:01[?], 181:01[?], 182:01[?], 183:01[?],
184:01[?], 185:01[?], 186:01[?], 187:01[?], 188:01[?], 189:01[?], 190:01[?],
191:01[?], 192:01[?], 193:01[?], 194:01[?], 195:01[?], 196:01[?], 197:01[?],
198:01[?], 199:01[?], 200:01[?], 201:01[?], 202:01[?], 203:01[?], 204:01[?],
205:01[?], 206:01[?], 207:01[?], 208:01[?], 209:01[?], 210:01[?], 211:01[?],
212:01[?], 213:01[?], 214:01[?], 215:01[?], 216:01N[?], 217:01[?], 218:01N[?],
219:01[?], 220:01[?], 221:01[?], 222:01[?], 223:01[?], 224:01[?], 226:01[?],
227:01[?], 228:01[?], 229:01[?], 230:01[?], 231:01[?], 232:01[?], 233:01[?],
234:01[?], 235:01[?], 236:01:01[?]-236:01:02[?], 237:01[?], 238:01[?], 239:01[?],
240:01[?], 241:01[?], 242:01[?], 243:01[?], 244:01[?], 245:01[?], 246:01[?],
247:01[?], 248:01[?], 249:01[?], 250:01[?], 251:01[?], 252:01[?], 253:01[?],
254:01[?], 255:01[?], 256:01[?], 258:01[?], 259:01[?], 260:01[?], 261:01[?],
262:01[?], 263:01[?], 264:01[?], 265:01[?], 266:01[?], 267:01[?], 268:01[?],
269:01[?], 270:01[?], 271:01[?], 272:01[?], 273:01[?], 274:01[?], 275:01[?],
276:01[?], 277:01[?], 278:01[?], 279:01[?], 280:01[?], 281:01[?], 282:01[?],
283:01[?], 284:01[?], 285:01[?], 286:01[?], 287:01[?], 288:01[?], 289:01[?],
290:01[?], 291:01[?], 292:01[?], 293:01[?], 294:01[?], 295:01[?], 296:01, 297:01[?],
298:01[?], 299:01[?], 300:01[?], 301:01[?], 302:01[?], 303:01[?], 304:01[?],
305:01[?], 306:01[?], 307:01[?], 308:01[?], 309:01[?], 310:01[?], 311:01[?],
312:01[?], 313:01[?], 314:01[?], 315:01[?], 316:01[?], 317:01[?], 318:01[?],
319:01[?], 320:01[?], 321:01[?], 322:01[?], 323:01[?], 324:01[?], 325:01[?],
326:01[?], 327:01[?], 328:01N[?], 329:01[?], 330:01[?], 331:01[?], 332:01[?],
333:01[?], 334:01[?], 335:01[?], 336:01[?], 337:01[?], 338:01[?], 339:01[?],
340:01[?], 341:01[?], 342:01[?], 343:01[?], 344:01[?], 345:01[?], 346:01[?],
347:01[?], 348:01:01[?]-348:01:02[?], 349:01[?], 350:01, 352:01, 353:01,
354:01:01[?]-354:01:02[?], 355:01[?], 356:01[?], 357:01N[?], 358:01[?], 359:01[?],
360:01[?], 361:01[?], 362:01[?], 363:01[?], 364:01[?], 365:01[?], 366:01[?],
367:01[?], 368:01[?], 369:01[?], 370:01[?], 371:01[?], 372:01[?], 373:01[?],
374:01[?], 375:01[?], 376:01[?], 377:01[?], 378:01[?], 379:01[?], 380:01[?],
381:01[?], 382:01N[?], 383:01[?], 384:01[?], 385:01[?], 386:01[?], 387:01[?],
388:01[?], 389:01[?], 390:01[?], 391:01[?], 392:01[?], 393:01[?], 394:01[?],
395:01[?], 396:01[?], 397:01[?], 399:01[?], 400:01[?], 401:01N[?], 402:01[?],
403:01N[?], 404:01[?], 405:01[?], 406:01[?], 407:01[?], 408:01[?], 409:01[?],
410:01[?], 411:01[?], 412:01[?], 413:01[?], 414:01, 417:01, 418:01[?], 419:01[?],
420:01[?], 421:01[?], 422:01[?], 423:01:01[?]-423:01:02[?], 424:01[?], 425:01[?],
426:01[?], 427:01[?], 428:01[?], 429:01[?], 430:01[?], 431:01[?], 432:01[?],
433:01[?], 434:01[?], 435:01[?], 436:01[?], 437:01[?], 438:01[?], 439:01[?], 440:01,
441:01[?], 442:01[?], 443:01[?], 444:01[?], 445:01[?], 446:01[?], 447:01[?],
448:01[?], 449:01[?], 450:01N[?], 451:01[?], 452:01[?], 453:01[?], 454:01[?],
455:01N[?], 456:01[?], 457:01[?], 458:01[?], 461:01, 463:01, 465:01[?],
466:01[?], 467:01[?], 468:01[?], 469:01[?], 470:01[?], 471:01[?], 472:01[?],
473:01[?], 474:01[?], 475:01[?], 476:01[?], 477:01[?], 478:01[?], 479:01[?],
480:01[?], 481:01[?], 482:01[?], 483:01[?], 484:01[?], 485:01[?], 486:01[?],
487:01[?], 488:01[?], 489:01[?], 490:01[?], 491:01[?], 492:01[?], 493:01[?],
494:01[?], 495:01[?], 496:01[?], 497:01[?], 498:01, 499:01[?], 500:01[?], 501:01[?],
502:01[?], 503:01[?], 504:01[?], 505:01[?], 506:01[?], 507:01N[?], 508:01[?],
509:01[?], 510:01[?], 511:01[?], 512:01[?], 513:01[?], 514:01[?], 515:01[?],
516:01[?], 517:01[?], 518:01, 519:01, 520:01[?], 521:01[?], 522:01[?], 523:01[?],
524:01[?], 525:01[?], 526:01[?], 527:01[?], 528:01[?], 529:01[?], 530:01[?],
531:01[?], 532:01[?], 533:01, 536:01, 537:01[?], 538:01[?], 539:01[?], 540:01[?],
541:01[?], 542:01[?], 543:01[?], 544:01[?], 545:01[?], 546:01[?], 547:01, 548:01[?],
549:01[?], 550:01[?], 551:01N[?], 552:01[?], 553:01[?], 554:01[?], 555:01[?],
556:01[?], 557:01[?], 558:01[?], 559:01[?], 560:01[?], 561:01[?], 562:01[?],

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			563:01 [?] , 564:01 [?] , 565:01 [?] , 566:01 [?] , 567:01 [?] , 568:01 [?] , 569:01 [?] , 570:01N [?] , 572:01, 573:01 [?] , 574:01 [?] , 575:01 [?] , 576:01 [?] , 577:01 [?] , 578:01 [?] , 579:01 [?] , 580:01 [?] , 581:01 [?] , 582:01 [?] , 583:01 [?] , 584:01, 585:01 ^w , 586:01 [?] , 587:01 [?] , 588:01 [?] , 589:01 [?] , 590:01 [?] , 591:01 [?] , 592:01 [?] , 593:01 [?] , 594:01 [?] , 595:01 [?] , 596:01 [?] , 597:01 [?] , 598:01N [?] , 599:01 [?] , 600:01 [?] , 601:01 [?] , 602:01 [?] , 603:01 [?] , 604:01 [?] , 605:01 [?] , 606:01 [?] , 607:01 [?] , 608:01 [?] , 609:01 [?] , 610:01 [?] , 611:01 [?] , 612:01 [?]
63	210 bp 245 bp 275 bp	515 bp	*183:01, 319:01 *216:01N *57:01 [?] , 280:01, 356:01, 539:01
64	160 bp 205 bp	430 bp	*217:01, 256:01, 475:01 *226:01, 232:01
65	165 bp 240 bp	430 bp	*181:01, 257:01, 258:01, 475:01 *238:01
66	185 bp 235 bp 280 bp	515 bp	*276:01, 418:01, 432:01 *239:01, 260:01, 487:01 *57:01 [?] , 356:01, 455:01N, 539:01
67	165 bp	430 bp	*261:01, 380:01, 501:01
68⁷	170 bp 200 bp 265 bp	430 bp	*228:01, 334:01, 594:01 *191:01, 192:01, 310:01, 342:01 *109:01, 117:01, 158:01, 164:01, 199:01, 200:01, 271:01, 294:01, 369:01, 392:01, 440:01, 480:01, 508:01, 531:01, 561:01, 601:01
69	180 bp 250 bp	515 bp	*227:01, 228:01 *210:01, 211:01, 240:01, 272:01
70⁴	75 bp 115 bp 165 bp 205 bp 260 bp	430 bp	*476:01 *551:01N *253:01, 286:01, 334:01, 594:01 *262:01, 263:01 *196:01, 596:01
71	140 bp 180 bp 260 bp	430 bp	*208:01, 250:01 *315:01 *268:01
72	145 bp 175 bp 255 bp	430 bp	*327:01 *270:01 *267:01, 293:01, 393:01
73	170 bp 190 bp	430 bp	*231:01 *18:01, 28:01, 139:01, 178:01, 230:01, 279:01, 280:01, 292:01, 296:01, 347:01, 431:01, 489:01, 499:01, 512:01, 526:01
74	165 bp 215 bp	430 bp	*255:01, 274:01, 374:01 *252:01, 273:01, 582:01
75	140 bp	430 bp	*03:01:01-03:01:08, 04:02:01:01-04:02:01:02, 04:02:02 ^w , 04:02:03- 04:02:08, 05:01:01-05:01:07, 14:01:01, 14:01:03, 18:01, 20:01:01- 20:01:03, 23:01:01-23:01:02, 25:01, 34:01 ^w , 35:01:01-35:01:02, 36:01, 38:01, 45:01, 50:01, 52:01, 57:01, 59:01, 60:01, 61:01N, 62:01, 63:01, 67:01, 68:01, 70:01, 73:01, 75:01, 77:01, 78:01, 79:01, 80:01, 82:01, 83:01, 84:01, 87:01, 91:01, 97:01, 98:01, 100:01, 104:01, 105:01, 108:01, 111:01, 112:01, 114:01, 116:01, 119:01, 124:01, 129:01, 130:01, 132:01, 135:01, 138:01, 140:01, 143:01, 144:01, 153:01, 164:01, 170:01 ^w , 171:01, 183:01, 184:01, 185:01, 190:01, 197:01, 201:01, 209:01, 210:01, 219:01, 221:01, 222:01, 223:01, 226:01, 233:01, 242:01, 243:01, 244:01, 248:01, 252:01, 256:01, 257:01, 259:01, 260:01, 263:01, 270:01, 271:01, 274:01 ^w , 284:01, 285:01, 286:01, 292:01, 293:01, 300:01, 301:01, 307:01, 308:01, 312:01, 316:01, 317:01, 321:01, 329:01, 330:01, 331:01, 333:01, 338:01,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			342:01, 351:01, 364:01, 365:01, 368:01, 369:01, 373:01, 374:01 ^w , 379:01, 380:01, 383:01, 390:01, 391:01, 392:01, 394:01, 395:01, 402:01, 404:01, 405:01, 409:01, 420:01, 424:01, 429:01, 431:01, 435:01, 439:01, 443:01 ^w , 445:01, 446:01, 451:01, 463:01, 466:01, 472:01, 473:01, 477:01, 484:01 ^w , 488:01, 491:01 ^w , 492:01, 494:01, 495:01, 498:01, 507:01N, 508:01, 509:01, 525:01, 532:01, 539:01, 540:01, 545:01, 548:01, 549:01 ^w , 560:01, 568:01, 571:01, 572:01, 573:01, 577:01, 580:01 ^w , 586:01, 587:01, 589:01, 594:01, 595:01, 596:01, 598:01N, 599:01, 605:01, 606:01, 610:01, 611:01
76⁴	120 bp 180 bp 220 bp 250 bp	430 bp	*215:01 *283:01, 359:01, 423:01:01-423:01:02, 577:01 *193:01 *225:01
77^{4,7}	120 bp 175 bp 220 bp 260 bp	430 bp	*215:01 *275:01, 488:01, 557:01 *194:01, 360:01 *311:01, 368:01
78	145 bp 180 bp 220 bp 255 bp	430 bp	*282:01 *318:01, 485:01 *195:01, 424:01, 510:01 *224:01
79⁴	75 bp 115 bp 170 bp 245 bp	515 bp	*476:01 *551:01N *275:01, 283:01, 359:01, 396:01, 577:01 *212:01, 224:01
80⁶	160 bp 250 bp	430 bp	*213:01, 282:01, 286:01, 396:01, 433:01, 488:01, 557:01 *225:01
81⁴	65 bp 95 bp 145 bp 180 bp 205 bp 260 bp 285 bp	430 bp	*591:01 *276:01 *250:01 *202:01, 230:01, 313:01 *281:01, 472:01 *268:01 *472:01
82^{4,13}	80 bp	430 bp	*01:01:01-01:01:06, 02:01:02-02:02, 03:01:01-03:01:08, 04:01:01:01- 04:02:08, 06:01:01, 06:01:02 [?] -06:01:03 [?] , 08:01 [?] , 09:01:01, 09:01:02 [?] - 09:01:04 [?] , 10:01:01, 10:01:02 [?] -10:01:03 [?] , 11:01:01, 11:01:02 [?] - 11:01:04 [?] , 13:01:01, 13:01:02 [?] , 14:01:01, 14:01:02 [?] -14:01:03 [?] , 15:01:01, 15:01:02 [?] , 16:01:01, 16:01:02 [?] , 17:01, 18:01, 20:01:01 [?] - 20:01:03 [?] , 21:01, 22:01 [?] , 23:01:01 [?] -23:01:02 [?] , 24:01 [?] , 25:01 [?] , 26:01:01 [?] , 26:01:02, 26:01:03 [?] , 27:01, 28:01 [?] , 29:01 [?] , 30:01 [?] , 31:01 [?] , 32:01 [?] , 33:01 [?] , 34:01 [?] , 35:01:01 [?] -35:01:02 [?] , 36:01 [?] , 37:01 [?] , 38:01 [?] , 39:01, 40:01, 41:01:01 [?] -41:01:02 [?] , 44:01 [?] , 45:01, 46:01:01, 46:01:02 [?] , 47:01 [?] , 48:01 [?] , 49:01 [?] , 50:01 [?] , 51:01 [?] , 52:01 [?] , 53:01 [?] , 54:01 [?] , 55:01 [?] , 56:01 [?] , 57:01 [?] , 58:01 [?] , 59:01, 60:01 [?] , 61:01N [?] , 62:01 [?] , 63:01 [?] , 64:01N [?] , 65:01:01 [?] -65:01:02 [?] , 66:01 [?] , 67:01 [?] , 68:01 [?] , 69:01 [?] , 70:01 [?] , 71:01:01 [?] -71:01:02 [?] , 72:01 [?] , 73:01 [?] , 74:01 [?] , 75:01 [?] , 76:01 [?] , 77:01 [?] , 78:01 [?] , 79:01 [?] , 80:01 [?] , 81:01 [?] , 82:01 [?] , 83:01 [?] , 84:01 [?] , 85:01 [?] , 86:01 [?] , 87:01 [?] , 88:01 [?] , 89:01 [?] , 90:01:01 [?] -90:01:02 [?] , 91:01 [?] , 92:01 [?] , 93:01 [?] , 94:01 [?] , 95:01 [?] , 96:01 [?] , 97:01 [?] , 98:01 [?] , 99:01 [?] , 100:01 [?] , 101:01 [?] , 102:01 [?] , 103:01 [?] , 105:01, 106:01, 107:01, 108:01 [?] , 109:01 [?] , 110:01 [?] , 111:01 [?] , 112:01 [?] , 113:01 [?] , 114:01 [?] , 115:01 [?] , 116:01 [?] , 117:01 [?] , 118:01 [?] , 119:01 [?] , 120:01N [?] , 121:01 [?] , 122:01 [?] , 123:01 [?] , 124:01 [?] , 125:01 [?] , 126:01 [?] , 127:01 [?] , 128:01 [?] , 129:01 [?] , 130:01 [?] , 131:01, 132:01 [?] , 133:01 [?] , 134:01 [?] , 135:01, 136:01, 137:01 [?] , 138:01, 139:01 [?] , 140:01 [?] ,

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

141:01[?], 142:01[?], 143:01[?], 144:01[?], 145:01[?], 146:01[?], 147:01[?],
 148:01[?], 149:01[?], 150:01[?], 151:01[?], 152:01[?], 153:01[?], 154:01N[?],
 155:01:01[?]-155:01:02[?], 156:01[?], 157:01[?], 158:01[?], 159:01N[?], 160:01[?],
 161:01N[?], 162:01[?], 163:01[?], 164:01[?], 165:01[?], 166:01[?], 167:01[?],
 168:01[?], 169:01[?], 170:01[?], 171:01[?], 172:01[?], 173:01[?], 174:01[?],
 175:01[?], 176:01[?], 177:01[?], 178:01[?], 179:01[?], 180:01[?], 181:01[?],
 182:01[?], 183:01[?], 184:01[?], 185:01[?], 186:01[?], 187:01[?], 188:01[?],
 189:01[?], 190:01[?], 191:01[?], 192:01[?], 193:01[?], 194:01[?], 195:01[?],
 196:01[?], 197:01[?], 198:01[?], 199:01[?], 200:01[?], 201:01[?], 202:01[?],
 203:01[?], 204:01[?], 205:01[?], 206:01[?], 207:01[?], 208:01[?], 209:01[?],
 210:01[?], 211:01[?], 212:01[?], 213:01[?], 214:01[?], 215:01[?], 216:01N[?],
 217:01[?], 218:01N[?], 219:01[?], 220:01[?], 221:01[?], 222:01[?], 223:01[?],
 224:01[?], 225:01[?], 226:01[?], 227:01[?], 228:01[?], 229:01[?], 230:01[?],
 231:01[?], 232:01[?], 233:01[?], 234:01[?], 235:01[?], 236:01:01[?]-236:01:02[?],
 237:01[?], 238:01[?], 239:01[?], 240:01[?], 241:01[?], 242:01[?], 243:01[?],
 244:01[?], 245:01[?], 246:01[?], 247:01[?], 248:01[?], 249:01[?], 250:01[?],
 251:01[?], 252:01[?], 253:01[?], 254:01[?], 255:01[?], 256:01[?], 257:01[?], 258:01[?],
 259:01[?], 260:01[?], 261:01[?], 262:01[?], 263:01[?], 264:01[?], 265:01[?],
 266:01[?], 267:01[?], 268:01[?], 269:01[?], 270:01[?], 271:01[?], 272:01[?],
 273:01[?], 274:01[?], 275:01[?], 276:01[?], 277:01[?], 278:01[?], 279:01[?],
 280:01[?], 281:01[?], 282:01[?], 283:01[?], 284:01[?], 285:01[?], 286:01[?],
 287:01[?], 288:01[?], 289:01[?], 290:01[?], 291:01[?], 292:01[?], 293:01[?],
 294:01[?], 295:01[?], 296:01[?], 297:01[?], 298:01[?], 299:01[?], 300:01[?], 301:01[?],
 302:01[?], 303:01[?], 304:01[?], 305:01[?], 306:01[?], 307:01[?], 308:01[?],
 309:01[?], 310:01[?], 311:01[?], 312:01[?], 313:01[?], 314:01[?], 315:01[?],
 316:01[?], 317:01[?], 318:01[?], 319:01[?], 320:01[?], 321:01[?], 322:01[?],
 323:01[?], 324:01[?], 325:01[?], 326:01[?], 327:01[?], 328:01N[?], 329:01[?],
 330:01[?], 331:01[?], 332:01[?], 333:01[?], 334:01[?], 335:01[?], 336:01[?],
 337:01[?], 338:01[?], 339:01[?], 340:01[?], 341:01[?], 342:01[?], 343:01[?],
 344:01[?], 345:01[?], 346:01[?], 347:01[?], 348:01:01[?]-348:01:02[?], 349:01[?],
 350:01[?], 351:01[?], 352:01[?], 353:01[?], 354:01:01[?]-354:01:02[?], 355:01[?],
 356:01[?], 357:01N[?], 358:01[?], 359:01[?], 360:01[?], 361:01[?], 362:01[?],
 363:01[?], 364:01[?], 365:01[?], 366:01[?], 367:01[?], 368:01[?], 369:01[?],
 370:01[?], 371:01[?], 372:01[?], 373:01[?], 374:01[?], 375:01[?], 376:01[?],
 377:01[?], 378:01[?], 379:01[?], 380:01[?], 381:01[?], 382:01N[?], 383:01[?],
 384:01[?], 385:01[?], 386:01[?], 387:01[?], 388:01[?], 389:01[?], 390:01[?],
 391:01[?], 392:01[?], 393:01[?], 394:01[?], 395:01[?], 396:01[?], 397:01[?], 398:01[?],
 399:01[?], 400:01[?], 401:01N[?], 402:01[?], 403:01N[?], 404:01[?], 405:01[?],
 406:01[?], 407:01[?], 408:01[?], 409:01[?], 410:01[?], 411:01[?], 412:01[?],
 413:01[?], 415:01[?], 416:01[?], 417:01[?], 418:01[?], 419:01[?], 420:01[?], 421:01[?],
 422:01[?], 423:01:01[?]-423:01:02[?], 424:01[?], 425:01[?], 426:01[?], 427:01[?],
 428:01[?], 429:01[?], 430:01[?], 431:01[?], 432:01[?], 433:01[?], 434:01[?],
 435:01[?], 436:01[?], 437:01[?], 438:01[?], 439:01[?], 440:01[?], 441:01[?], 442:01[?],
 443:01[?], 444:01[?], 445:01[?], 446:01[?], 447:01[?], 448:01[?], 449:01[?],
 450:01N[?], 451:01[?], 452:01[?], 453:01[?], 454:01[?], 455:01N[?], 456:01[?],
 457:01[?], 458:01[?], 459:01[?], 460:01[?], 461:01[?], 462:01[?], 463:01[?], 464:01[?],
 465:01[?], 466:01[?], 467:01[?], 468:01[?], 469:01[?], 470:01[?], 471:01[?],
 472:01[?], 473:01[?], 474:01[?], 475:01[?], 476:01[?], 477:01[?], 478:01[?],
 479:01[?], 480:01[?], 481:01[?], 482:01[?], 483:01[?], 484:01[?], 485:01[?],
 486:01[?], 487:01[?], 488:01[?], 489:01[?], 490:01[?], 491:01[?], 492:01[?],
 493:01[?], 494:01[?], 495:01[?], 496:01[?], 497:01[?], 498:01[?], 499:01[?], 500:01[?],
 501:01[?], 502:01[?], 503:01[?], 504:01[?], 505:01[?], 506:01[?], 507:01N[?],
 508:01[?], 509:01[?], 510:01[?], 511:01[?], 512:01[?], 513:01[?], 514:01[?],
 515:01[?], 516:01[?], 517:01[?], 518:01[?], 520:01[?], 521:01[?], 522:01[?], 523:01[?],
 524:01[?], 525:01[?], 526:01[?], 527:01[?], 528:01[?], 529:01[?], 530:01[?],
 531:01[?], 532:01[?], 533:01[?], 534:01[?], 535:01[?], 536:01[?], 537:01[?],
 538:01[?], 539:01[?], 540:01[?], 541:01[?], 542:01[?], 543:01[?], 544:01[?],

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

			545:01 [?] , 546:01 [?] , 548:01 [?] , 549:01 [?] , 550:01 [?] , 551:01N [?] , 552:01 [?] , 553:01 [?] , 554:01 [?] , 555:01 [?] , 556:01 [?] , 557:01 [?] , 558:01 [?] , 559:01 [?] , 560:01 [?] , 561:01 [?] , 562:01 [?] , 563:01 [?] , 564:01 [?] , 565:01 [?] , 566:01 [?] , 567:01 [?] , 568:01 [?] , 569:01 [?] , 570:01N [?] , 571:01, 572:01 [?] , 573:01 [?] , 574:01 [?] , 575:01 [?] , 576:01 [?] , 577:01 [?] , 578:01 [?] , 579:01 [?] , 580:01 [?] , 581:01 [?] , 582:01 [?] , 583:01 [?] , 584:01, 585:01, 586:01 [?] , 587:01 [?] , 588:01 [?] , 589:01 [?] , 590:01 [?] , 591:01 [?] , 592:01 [?] , 593:01 [?] , 594:01 [?] , 595:01 [?] , 596:01 [?] , 597:01 [?] , 598:01N [?] , 599:01 [?] , 600:01 [?] , 601:01 [?] , 602:01 [?] , 603:01 [?] , 604:01 [?] , 605:01 [?] , 606:01 [?] , 607:01 [?] , 608:01 [?] , 609:01 [?] , 610:01 [?] , 611:01 [?] , 612:01 [?]
83	160 bp	430 bp	*04:01:01:01-04:01:32, 11:01:01-11:01:04, 15:01:01-15:01:02, 24:01, 27:01, 28:01, 31:01, 33:01, 39:01, 40:01, 49:01, 51:01, 53:01, 66:01, 72:01, 74:01, 81:01, 85:01, 89:01, 96:01, 99:01, 102:01, 117:01, 120:01N, 121:01, 126:01, 139:01, 147:01, 149:01, 156:01, 158:01, 169:01, 172:01, 174:01, 175:01, 176:01, 177:01, 178:01, 179:01, 180:01, 181:01, 192:01, 193:01, 194:01, 195:01, 198:01, 199:01, 202:01, 204:01, 205:01, 206:01, 207:01, 212:01, 213:01, 214:01, 215:01, 224:01, 225:01, 228:01, 229:01, 230:01, 232:01, 240:01, 247:01, 250:01, 253:01, 254:01, 255:01, 262:01, 264:01, 268:01, 272:01, 275:01, 276:01, 277:01, 279:01, 280:01, 281:01, 282:01, 283:01, 287:01, 290:01, 294:01, 296:01, 298:01, 299:01, 302:01, 303:01, 305:01, 319:01, 320:01, 323:01, 328:01N, 334:01, 335:01, 336:01, 337:01, 341:01, 345:01, 348:01:01-348:01:02, 350:01, 354:01:01-354:01:02, 355:01, 356:01, 357:01N, 360:01, 370:01, 372:01, 375:01, 376:01, 378:01, 387:01, 388:01, 396:01, 397:01, 398:01, 399:01, 415:01, 418:01, 425:01, 426:01, 427:01, 428:01, 434:01, 437:01, 450:01N, 453:01, 454:01, 455:01N, 456:01, 459:01, 464:01, 465:01, 468:01, 471:01, 474:01, 475:01, 476:01, 479:01, 480:01, 482:01, 485:01, 486:01, 487:01, 493:01, 512:01, 517:01, 520:01, 521:01, 522:01, 523:01, 524:01, 529:01, 531:01, 534:01, 553:01, 554:01, 555:01, 556:01, 559:01, 561:01, 566:01, 569:01, 574:01, 575:01, 578:01, 583:01, 584:01, 585:01, 591:01, 592:01, 593:01, 607:01
	215 bp		*169:01
84⁷	165 bp 200 bp 260 bp	430 bp	*181:01 *180:01, 418:01, 432:01 *177:01, 186:01, 338:01
85⁴	110 bp 190 bp 260 bp 285 bp	515 bp	*572:01 *175:01, 419:01, 429:01, 498:01 *171:01 *08:01 [?] , 34:01 [?] , 38:01 [?] , 48:01 [?] , 49:01 [?] , 53:01 [?] , 57:01 [?] , 60:01 [?] , 62:01 [?] , 63:01 [?] , 71:01:01 [?] , 72:01 [?] , 73:01 [?] , 75:01 [?] , 102:01 [?] , 237:01, 585:01
86⁴	125 bp 170 bp 195 bp 225 bp	430 bp	*190:01 *485:01 *354:01:01-354:01:02, 375:01, 480:01, 531:01 *360:01
87	145 bp 230 bp	430 bp	*327:01 *329:01
88⁴	80 bp	430 bp	*15:01:01-15:01:02, 18:01, 28:01, 40:01, 53:01, 62:01, 74:01, 139:01, 198:01, 290:01, 292:01, 296:01, 299:01, 333:01, 347:01, 387:01, 471:01, 482:01, 499:01, 512:01, 526:01, 585:01
89	240 bp	430 bp	*187:01, 357:01N, 401:01N
90	80 bp 215 bp	430 bp	*571:01 *415:01, 534:01
91	145 bp 220 bp	430 bp	*464:01, 535:01 *534:01
92⁴	115 bp	430 bp	*403:01N

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

	165 bp		*445:01
	230 bp		*533:01
93⁷	225 bp	430 bp	*404:01, 598:01N
	255 bp		*450:01N
94	160 bp	430 bp	*01:01:01-01:01:04, 01:01:06, 26:01:01-26:01:03, 56:01, 65:01:01-65:01:02, 76:01, 90:01:01-90:01:02, 92:01, 118:01, 122:01, 125:01, 127:01, 142:01, 150:01, 159:01N, 162:01, 203:01, 220:01, 267:01, 288:01, 291:01, 306:01, 315:01, 326:01, 327:01, 346:01, 363:01, 377:01, 385:01, 403:01N, 411:01, 417:01, 436:01, 440:01, 442:01, 462:01, 470:01, 481:01, 483:01, 490:01, 499:01, 514:01, 516:01, 536:01, 542:01, 543:01, 562:01, 609:01
	190 bp		*454:01
	240 bp		*08:01, 57:01, 65:01:01-65:01:02, 68:01, 73:01, 75:01, 84:01, 150:01, 188:01, 234:01, 285:01, 306:01, 377:01, 442:01, 499:01
	270 bp		*454:01
95	140 bp	430 bp	*13:01:01-13:01:02, 107:01, 117:01, 133:01, 160:01, 172:01, 173:01, 198:01 ^w , 206:01, 246:01, 247:01, 269:01, 287:01, 362:01, 389:01 ^w , 393:01, 438:01, 441:01, 449:01, 474:01, 503:01, 514:01, 518:01, 519:01, 544:01, 561:01, 564:01, 565:01, 597:01, 600:01, 609:01, 612:01
	220 bp		*06:01:01-06:01:03, 13:01:01-13:01:02, 21:01, 29:01, 37:01, 44:01, 88:01, 93:01, 107:01, 109:01, 110:01, 117:01, 133:01, 160:01, 161:01N, 198:01, 200:01, 206:01, 208:01, 246:01, 247:01, 249:01, 269:01, 295:01, 347:01, 349:01, 362:01, 371:01, 389:01, 393:01, 413:01, 438:01, 448:01, 449:01, 518:01, 519:01, 544:01, 546:01, 550:01, 561:01, 563:01, 564:01, 565:01, 566:01, 567:01, 597:01, 600:01, 601:01, 608:01, 609:01, 612:01
96¹⁴	-	-	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 DPB1 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 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 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 DPB1 alleles 1st and/or 3rd exon(s) and beyond, as well as intron nucleotide sequences, are not available and thus the primer pairs in primer mixes 57, 58, 59, 60, 62 and 82 may amplify other DPB1 alleles. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

Lot-specific information

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 9, 27, 43 and 47 may give rise to a lower yield of HLA-specific PCR product than the other DPB1 primer mixes.

⁶Primer mixes 26, 41 and 80 have a tendency to giving rise to primer oligomer formation.

⁷Primer mixes 15, 23, 25, 27, 32, 41, 42, 44, 45, 49, 50, 62, 68, 77, 84 and 93 may have tendencies of unspecific amplifications.

⁸The 3rd exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 57 matching the DPB1*04:02:01:01-04:02:08, 59:01, 126:01, 138:01, 351:01, 416:01, 460:01 and 462:01 sequence motif in the 3rd exon may amplify other DPB1 alleles.

⁹The 1st exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 58 matching the DPB1*107:01 sequence motif in the 1st exon may amplify other DPB1 alleles.

¹⁰The 4th exon of most DPB1 alleles is not sequenced and thus the primer pair in primer mix 59 matching the DPB1*05:01:01-05:01:07, 19:01, 104:01, 414:01, 519:01 and 547:01 sequence motif in the 4th exon may amplify other DPB1 alleles.

¹¹The 3rd exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 60 matching the DPB1*02:01:02-02:02, 04:01:01:01-04:01:32, 17:01, 23:01:01, 28:01, 30:01, 33:01, 39:01, 40:01, 46:01:01, 55:01, 105:01, 106:01, 121:01, 123:01, 124:01, 133:01, 134:01, 137:01, 141:01, 162:01, 168:01, 225:01, 398:01, 415:01, 459:01, 464:01, 534:01, 535:01 and 571:01 sequence motif in the 3rd exon may amplify other DPB1 alleles.

¹²The 3rd exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 62 matching the DPB1*01:01:01-01:01:06, 03:01:01-03:01:08, 05:01:01-05:01:07, 06:01:01, 09:01:01-09:01:04, 10:01:01, 11:01:01-11:01:04, 13:01:01-13:01:02, 14:01:01, 15:01:01^w, 16:01:01-16:01:02, 18:01, 19:01, 20:01:01-20:01:02, 21:01, 26:01:02, 27:01, 35:01:01-35:01:02, 45:01, 50:01, 85:01, 88:01, 104:01, 107:01, 130:01, 131:01, 132:01, 135:01, 136:01, 152:01, 296:01, 350:01, 352:01, 353:01, 414:01, 417:01, 440:01, 461:01, 463:01, 498:01, 518:01, 519:01, 533:01, 536:01, 547:01, 572:01, 584:01 and 585:01^w sequence motif in the 3rd exon may amplify other DPB1 alleles.

¹³The 4th exon of many DPB1 alleles is not sequenced and thus the primer pair in primer mix 82 matching the DPB1*01:01:01-01:01:06, 02:01:02-02:02, 03:01:01-03:01:08, 04:01:01:01-04:02:08, 06:01, 09:01:01, 10:01:01, 11:01:01, 13:01:01, 14:01:01, 15:01:01, 16:01:01, 17:01, 18:01, 21:01, 26:01:02, 27:01, 39:01, 40:01, 45:01, 46:01:01, 59:01, 105:01, 106:01, 107:01, 131:01, 135:01, 136:01, 138:01, 162:01, 257:01, 296:01, 350:01, 351:01, 352:01, 353:01, 398:01, 415:01, 416:01, 417:01, 440:01, 459:01, 460:01, 461:01, 462:01, 463:01, 464:01, 498:01, 518:01, 571:01, 584:01 and 585:01 sequence motif in the 4th exon may amplify other DPB1 alleles.

¹⁴Primer 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.

‘?’, nucleotide sequence information not available for the primer matching sequence.

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product	245	220	140	140	235	165	160	210	165	220	145	80
											185	
Length of int. pos. control ¹	515	515	430	430	515	430	430	515	430	515	515	515
5'-primer(s) ²	8(112) 5'-TgT 3'	8(112) 5'-TgT 3'	21(150) 5'-ACA 3'	36(194) 5'-CgC 3'	11(119) 5'-ggg 3'	35(191) 5'-gTA 3'	36(194) 5'-CgC 3'	9(113) 5'-TTT 3'	34(190) 5'-AgC 3'	9(113) 5'-TTT 3'	35(191) 5'-gTT 3'	55(252) 5'-gAT 3'
	8(112) 5'-TgT 3'	8(112) 5'-TgT 3'		36(194) 5'-CgC 3'	11(119) 5'-ggg 3'	35(191) 5'-gTA 3'	36(194) 5'-CgC 3'		36(194) 5'-CgT 3'			55(252) 5'-gAT 3'
												55(252) 5'-gAC 3'
3'-primer(s) ³	76(315) 5'-CAT 3'	68(292) 5'-CTT 3'	55(251) 5'-CAg 3'	68(292) 5'-CTT 3'	75(313) 5'-CAC 3'	75(313) 5'-CAC 3'	75(313) 5'-CAC 3'	64(280) 5'-TAT 3'	75(313) 5'-CAT 3'	68(292) 5'-CTC 3'	69(293) 5'-gCC 3'	68(292) 5'-CTC 3'
				68(292) 5'-CTT 3'	76(315) 5'-CAT 3'	76(315) 5'-CAT 3'	76(315) 5'-CAT 3'	64(280) 5'-gAT 3'	75(313) 5'-TAT 3'		83(337) 5'-gTT 3'	
					76(315) 5'-CAg 3'			64(280) 5'-AAT 3'	76(315) 5'-CAg 3'		84(338) 5'-CgC 3'	
								65(281) 5'-ggT 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	180	105	200	80	260	180	200	235	100	185	145	195
		175		165							210	265
				210								
Length of int. pos. control ¹	430	430	430	430	515	430	430	515	430	430	430	515
5'-primer(s) ²	9(113) 5'-TTT 3'	11(119) 5'-gTT 3'	27(169) 5'-gAg 3'	11(121) 5'-gAT 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'	57(258) 5'-gAC 3'	36(194) 5'-CgC 3'	11(121) 5'-gAT 3'	9(113) 5'-TTT 3'
		11(119) 5'-gTT 3'	34(190) 5'-AgC 3'	27(169) 5'-gAg 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'	11(119) 5'-gTT 3'		36(194) 5'-CgC 3'	12(122) 5'-ACA 3'	
		34(190) 5'-AgC 3'		56(254) 5'-TgA 3'							34(190) 5'-AgC 3'	
3'-primer(s) ³	55(252) 5'-gCC 3'	55(252) 5'-gCC 3'	84(338) 5'-CgC 3'	68(292) 5'-CTT 3'	84(338) 5'-CgT 3'	57(258) 5'-TAg 3'	64(280) 5'-gAg 3'	76(315) 5'-CAT 3'	76(315) 5'-CAT 3'	84(338) 5'-CgC 3'	68(292) 5'-CTT 3'	59(265) 5'-gTg 3'
				68(292) 5'-CTT 3'							68(292) 5'-CTT 3'	84(338) 5'-CgT 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec.	200	75	95	200	105	185	120	75	105	210	195	260
PCR product	265	205	215	260	220		215	200	140			
			235					260	195			
Length of int.	515	515	430	430	515	430	515	430	430	430	430	515
pos. control ¹												
5'-primer(s) ²	8(112) 5'-Tgg 3'	14(130) 5'-AAG 3'	10(116) 5'-CCg 3'	11(119) 5'-gTT 3'	8(112) 5'-TgC 3'	8(112) 5'-TgC 3'	26(164) 5'-ggT 3'	9(113) 5'-TTC 3'	14(130) 5'-AAG 3'	8(112) 5'-TgC 3'	32(184) 5'-ggC 3'	11(119) 5'-ggg 3'
	27(169) 5'-gAg 3'	57(258) 5'-gAC 3'	11(119) 5'-ggg 3'	11(119) 5'-gTT 3'	106(406) 5'-CCT 3'		57(258) 5'-gAg 3'	13(127) 5'-AgC 3'	21(151) 5'-CAT 3'		32(184) 5'-ggC 3'	11(119) 5'-ggg 3'
	34(190) 5'-AgC 3'	59(265) 5'-ggC 3'	15(133) 5'-gCC 3'					31(181) 5'-ACT 3'	36(194) 5'-CgC 3'			11(119) 5'-ggg 3'
			17(139) 5'-Cgg 3'					32(184) 5'-ggC 3'	36(194) 5'-CgC 3'			
			57(258) 5'-gAC 3'					32(184) 5'-ggC 3'				
								73(305) 5'-gCT 3'				
3'-primer(s) ³	84(338) 5'-CgT 3'	68(292) 5'-CTC 3'	75(313) 5'-CAT 3'	64(280) 5'-gAT 3'	68(292) 5'-CTC 3'	57(258) 5'-TAG 3'	84(338) 5'-CgT 3'	84(338) 5'-CgT 3'	57(258) 5'-TAG 3'	64(280) 5'-gAg 3'	84(338) 5'-CgA 3'	84(338) 5'-CgA 3'
			75(313) 5'-TAT 3'	83(337) 5'-gTT 3'	128(470) 5'-ATT 3'		84(338) 5'-CgT 3'		68(292) 5'-CTC 3'			
									85(341) 5'-gCC 3'			
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec.	160	95	210	180	75	140	190	115	120	75	165	115
PCR product	185	180		230	225	185		155	160	210	215	210
					250	210		185	190			280
					280	245		210	240			
						285		240				
								270				
Length of int.	430	515	515	430	515	430	430	430	430	430	430	430
pos. control ¹												
5'-primer(s) ²	36(194) 5'-CgC 3'	34(190) 5'-AgC 3'	9(113) 5'-TTT 3'	8(112) 5'-TgC 3'	1 st I 5'-CAT 3'	9(113) 5'-TTT 3'	34(190) 5'-AgC 3'	7(108) 5'-TAA 3'	16(136) 5'-ACA 3'	9(113) 5'-TTT 3'	34(190) 5'-AgC 3'	11(119) 5'-gTT 3'
	36(194) 5'-CgC 3'	36(194) 5'-CgT 3'						9(115) 5'-TCT 3'	17(137) 5'-CgT 3'	56(254) 5'-TgA 3'		11(119) 5'-gTT 3'
		38(202) 5'-TCT 3'						16(136) 5'-ACC 3'	35(191) 5'-gTA 3'			
								16(136) 5'-ACC 3'	35(191) 5'-gTA 3'			
								18(140) 5'-gTg 3'	44(220) 5'-Agg 3'			
								27(169) 5'-gAg 3'	56(254) 5'-TgT 3'			
								32(182) 5'-CCC 3'	57(258) 5'-gAC 3'			
								32(182) 5'-CCA 3'				
3'-primer(s) ³	75(313) 5'-TAT 3'	55(251) 5'-CAg 3'	64(280) 5'-gAg 3'	55(252) 5'-gCC 3'	12(122) 5'-gCA 3'	42(214) 5'-CCA 3'	84(338) 5'-CgA 3'	55(251) 5'-CAg 3'	84(338) 5'-CgC 3'	63(277) 5'-gTg 3'	76(315) 5'-CAT 3'	35(191) 5'-CgA 3'
	84(338) 5'-CgA 3'	79(324) 5'-TTC 3'		68(292) 5'-CTT 3'	61(271) 5'-CTA 3'	57(257) 5'-ACA 3'	91(359) 5'-ggT 3'	55(252) 5'-gCC 3'		64(280) 5'-gAA 3'	92(362) 5'-CTg 3'	66(286) 5'-CTA 3'
		80(326) 5'-AgC 3'		75(313) 5'-TAT 3'	66(286) 5'-CTT 3'	63(275) 5'-CCg 3'		84(338) 5'-CgT 3'		65(281) 5'-ggT 3'		91(359) 5'-ggT 3'
		88(350) 5'-ggA 3'			69(295) 5'-CCA 3'	66(286) 5'-CTT 3'				69(293) 5'-gCC 3'		
					71(301) 5'-CAA 3'	76(316) 5'-gCg 3'						
					78(320) 5'-gTg 3'	91(359) 5'-ggT 3'						
					83(337) 5'-gCT 3'							
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Length of spec.	95	160	170	130	90	115	135	150	255	95	80	255
PCR product	135	210	225	160	155	185	165	180				
	210			215	180	210	190	230				
					205							
Length of int.	430	430	430	430	430	430	430	430	430	430	430	430
pos. control ¹												
5'-primer(s) ²	7(109)	11(119)	8(110)	7(107)	36(194)	36(194)	16(136)	9(113)	106(406)	-22(24)	191(660)	106(406)
	5'-ACA 3'	5'-ggg 3'	5'-CCg 3'	5'-TTg 3'	5'-CgT 3'	5'-CgC 3'	5'-ACA 3'	5'-TTT 3'	5'-CCT 3'	5'-gCA 3'	5'-gAT 3'	5'-CCT 3'
	9(114)	23(155)	9(115)	8(110)		36(194)	21(151)					
	5'-TTA 3'	5'-gCA 3'	5'-TCT 3'	5'-CCg 3'		5'-CgC 3'	5'-CAT 3'					
	32(184)	29(173)	25(163)	9(115)		57(258)	26(166)					
	5'-ggC 3'	5'-CAg 3'	5'-TgC 3'	5'-TCT 3'		5'-gAC 3'	5'-AgT 3'					
	46(226)		26(166)	14(129)			29(175)					
	5'-ggA 3'		5'-AgT 3'	5'-gAC 3'			5'-TCC 3'					
				29(175)			37(197)					
				5'-TCC 3'			5'-gCT 3'					
				39(204)								
				5'-gAA 3'								
3'-primer(s) ³	64(280)	64(280)	68(292)	68(292)	53(245)	79(323)	68(292)	44(220)	177(619)	-4(76)	204(700)	177(619)
	5'-gAT 3'	5'-gAT 3'	5'-CTC 3'	5'-CTC 3'	5'-gCT 3'	5'-TgC 3'	5'-CTC 3'	5'-gAT 3'	5'-CAT 3'	5'-CAC 3'	5'-CAT 3'	5'-CAg 3'
		68(292)			74(308)	84(340)		55(252)				
		5'-CTC 3'			5'-TgC 3'	5'-CTA 3'		5'-TCC 3'				
					74(310)	84(340)		71(299)				
					5'-CCC 3'	5'-CTg 3'		5'-CTT 3'				
					78(322)	85(341)		73(305)				
					5'-gTA 3'	5'-gCT 3'		5'-CCC 3'				
					84(340)	91(361)						
					5'-CCT 3'	5'-TCA 3'						
					85(341)							
					5'-CCC 3'							
					89(355)							
					5'-CTC 3'							
					90(358)							
					5'-gCC 3'							
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Length of spec.	145	260	210	160	165	185	165	170	180	75	140	145
PCR product	225		245	205	240	235		200	250	115	180	175
			275			280		265		165	260	255
										205		
										260		
Length of int.	430	515	515	430	430	515	430	430	515	430	430	430
pos. control ¹												
5'-primer(s) ²	115(433)	106(406)	9(113)	9(113)	9(113)	9(113)	36(194)	8(112)	12(122)	11(121)	8(112)	12(122)
	5'-gCT 3'	5'-CCC 3'	5'-TTT 3'	5'-TTT 3'	5'-TTT 3'	5'-TTT 3'	5'-CgT 3'	5'-TgT 3'	5'-ACC 3'	5'-gAT 3'	5'-TgT 3'	5'-ACC 3'
	143(517)							31(179)	17(137)	28(172)		13(127)
	5'-CCT 3'							5'-CAg 3'	5'-CgT 3'	5'-ACg 3'		5'-AgC 3'
								31(181)	35(192)	41(210)		16(136)
								5'-ACT 3'	5'-TTA 3'	5'-gAA 3'		5'-ACA 3'
								40(208)	40(208)	44(220)		38(202)
								5'-gCC 3'	5'-gCC 3'	5'-Agg 3'		5'-TCC 3'
								41(210)		45(223)		48(232)
								5'-gAA 3'		5'-TCT 3'		5'-Tgg 3'
										59(264)		
										5'-TgA 3'		
										73(305)		
										5'-gCT 3'		
3'-primer(s) ³	177(619)	179(624)	66(284)	47(227)	48(230)	53(245)	74(308)	84(338)	84(338)	84(338)	42(212)	84(338)
	5'-CAg 3'	5'-CTg 3'	5'-CCT 3'	5'-CCT 3'	5'-TCg 3'	5'-gCT 3'	5'-TgC 3'	5'-CgC 3'	5'-CgC 3'	5'-CgC 3'	5'-CCC 3'	5'-CgT 3'
			66(284)	51(241)	50(238)	59(265)	79(323)				43(217)	
			5'-CCg 3'	5'-CCT 3'	5'-CAC 3'	5'-gTC 3'	5'-TgA 3'				5'-CTg 3'	
			77(319)	60(266)	51(241)	73(305)	83(335)				55(251)	
			5'-TCA 3'	5'-TgC 3'	5'-CCT 3'	5'-CCC 3'	5'-CCg 3'				5'-CAA 3'	
			85(341)	67(287)	53(245)	88(350)					81(331)	
			5'-gCg 3'	5'-CCg 3'	5'-gCg 3'	5'-ggT 3'					5'-CTg 3'	
			88(350)		75(312)	89(355)						
			5'-ggT 3'		5'-ATA 3'	5'-CTA 3'						
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Length of spec.	170	165	140	120	120	145	75	160	65	80	160	165
PCR product	190	215		180	175	180	115	250	95		215	200
				220	220	220	170		145			260
				250	260	255	245		180			
									205			
									260			
									285			
Length of int.	430	430	430	430	430	430	515	430	430	430	430	430
pos. control ¹												
5'-primer(s) ²	35(191) 5'-gTT 3'	15(133) 5'-gCC 3'	36(194) 5'-CgT 3'	13(127) 5'-AgA 3'	11(119) 5'-gTT 3'	12(122) 5'-ACA 3'	12(122) 5'-ACA 3'	13(127) 5'-AgA 3'	8(112) 5'-TgT 3'	191(660) 5'-gAT 3'	17(139) 5'-Cgg 3'	9(113) 5'-TTT 3'
		20(146) 5'-TgC 3'	36(194) 5'-CgT 3'	24(160) 5'-TCg 3'	22(152) 5'-ACT 3'	22(152) 5'-ACg 3'	19(145) 5'-ATA 3'	40(207) 5'-Agg 3'	35(191) 5'-gTT 3'		36(194) 5'-CgC 3'	
		32(184) 5'-ggA 3'	36(194) 5'-CgT 3'	35(193) 5'-TCT 3'	24(159) 5'-TTg 3'	25(163) 5'-TgA 3'	37(197) 5'-gCC 3'	41(211) 5'-ACA 3'			36(194) 5'-CgC 3'	
		33(187) 5'-AgA 3'		35(193) 5'-TCC 3'	37(197) 5'-gCC 3'	35(193) 5'-TCA 3'	40(208) 5'-gCT 3'	42(212) 5'-CgC 3'				
		37(197) 5'-gCT 3'		40(208) 5'-gCT 3'	41(211) 5'-ACA 3'	40(208) 5'-gCA 3'	42(212) 5'-CgC 3'	44(220) 5'-AgC 3'				
				57(258) 5'-gAC 3'	57(258) 5'-gAC 3'	49(233) 5'-gAT 3'	59(264) 5'-TgA 3'	45(223) 5'-TCT 3'				
							73(305) 5'-gCT 3'	49(233) 5'-gAT 3'				
3'-primer(s) ³	78(321) 5'-TgA 3'	75(313) 5'-CAT 3'	68(292) 5'-CTT 3'	84(338) 5'-CgC 3'	84(338) 5'-CgC 3'	84(338) 5'-CgC 3'	84(338) 5'-CgC 3'	84(338) 5'-CgC 3'	43(217) 5'-CTg 3'	204(700) 5'-CAC 3'	75(313) 5'-CAT 3'	50(238) 5'-CAC 3'
	84(338) 5'-CgA 3'								53(245) 5'-gCT 3'			59(265) 5'-gTC 3'
	84(340) 5'-CCg 3'								81(331) 5'-CTg 3'			63(275) 5'-CCg 3'
	84(340) 5'-CCA 3'								84(340) 5'-CCA 3'			80(326) 5'-AgC 3'
	85(341) 5'-gCC 3'								89(355) 5'-CTT 3'			81(331) 5'-CTT 3'
	85(341) 5'-gCg 3'											83(337) 5'-gCT 3'
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

Well No.	85	86	87	88	89	90	91	92	93	94	95
Length of spec.	110	125	145	80	240	80	145	115	225	160	140
PCR product	190	170	230			215	220	165	255	190	220
	260	195						230		240	
	285	225								270	
Length of int.	515	430	430	430	430	430	430	430	430	430	430
pos. control ¹											
5'-primer(s) ²	9(113) 5' -TTT 3'	22(152) 5' -ACT 3'	21(149) 5' -gAT 3'	71(301) 5' -CAg 3'	11(119) 5' -ggg 3'	106(406) 5' -CCT 3'	106(406) 5' -CCT 3'	42(214) 5' -TgC 3'	12(124) 5' -ggT 3'	9(113) 5' -TTT 3'	8(112) 5' -TgT 3'
	106(406) 5' -CCC 3'	32(184) 5' -ggC 3'	48(232) 5' -Tgg 3'		11(119) 5' -ggg 3'			59(264) 5' -TgA 3'	21(151) 5' -CAT 3'	36(194) 5' -CgC 3'	35(191) 5' -gTA 3'
		40(208) 5' -gCA 3'						116(436) 5' -ACA 3'	25(161) 5' -CCA 3'	36(194) 5' -CgC 3'	
		56(254) 5' -TgA 3'									
3'-primer(s) ³	59(264) 5' -TTg 3'	84(338) 5' -CgC 3'	84(338) 5' -CgT 3'	84(338) 5' -CgA 3'	77(317) 5' -TgA 3'	119(443) 5' -AAC 3'	140(508) 5' -CAT 3'	84(338) 5' -CgT 3'	84(338) 5' -CgT 3'	75(313) 5' -TAC 3'	68(292) 5' -CTC 3'
	82(334) 5' -CAC 3'				81(330) 5' -TCC 3'	162(572) 5' -ggT 3'	141(509) 5' -ACC 3'	179(624) 5' -CTg 3'		85(341) 5' -gCT 3'	
	92(362) 5' -CTT 3'					166(586) 5' -ATT 3'	166(586) 5' -ATT 3'				
	129(474) 5' -AAg 3'										
	158(561) 5' -AgT 3'										
	186(646) 5' -CTC 3'										
Well No.	85	86	87	88	89	90	91	92	93	94	95

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 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.

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

CELL LINE VALIDATION SHEET															
DPB1 SSP kit ²															
					Well ³										
					1	2	3	4	5	6	7	8	9	10	11
				Prod. No.:	201668301	201668302	201777603	201668304	201668305	201668306	201668307	201668308	201668309	201668310	201668311
	IHC cell line ¹		DPB1												
1	9001 SA	*04:02			-	-	-	-	-	-	-	+	+	-	+
2	9280 LK707	*04:01			-	-	+	+	-	-	-	+	-	-	+
3	9011 E4181324	*02:01	*04:01		-	-	+	+	-	-	-	+	+	+	+
4	9275 GU373	*04:02	*17:01		-	-	-	-	-	-	-	+	+	-	+
5	9009 KAS011	*04:01	*14:01		-	-	+	+	-	-	-	+	-	-	+
6	9353 SM	*05:01			-	-	-	-	-	-	-	+	+	-	+
7	9020 QBL	*02:02			-	-	-	-	-	-	-	+	+	+	+
8	9025 DEU	*04:01			-	-	+	+	-	-	-	+	-	-	+
9	9026 YAR	*04:01			-	-	+	+	-	-	-	+	-	-	+
10	9107 LKT3	*05:01			-	-	-	-	-	-	-	+	+	-	+
11	9051 PITOUT	*04:01			-	-	+	+	-	-	-	+	-	-	+
12	9052 DBB	*04:01			-	-	+	+	-	-	-	+	-	-	+
13	9004 JESTHOM	*04:01			-	-	+	+	-	-	-	+	-	-	+
14	9071 OLGA	*03:01	*04:02		+	+	-	-	-	-	-	+	+	-	+
15	9075 DKB	*04:01			-	-	+	+	-	-	-	+	-	-	+
16	9037 SWEIG007	*04:02			-	-	-	-	-	-	-	+	+	-	+
17	9282 CTM3953540	*01:01	*02:01		+	+	+	+	+	+	+	+	+	+	+
18	9257 32367	*04:02	*18:01		-	+	-	-	-	-	-	+	+	-	+
19	9038 BM16	*02:01			-	-	-	-	-	-	-	+	+	+	+
20	9059 SLE005	*03:01			+	+	-	-	-	-	-	-	-	-	+
21	9064 AMALA	*04:02			-	-	-	-	-	-	-	+	+	-	+
22	9056 KOSE	*02:01	*13:01		+	-	+	-	-	+	+	+	+	+	+
23	9124 IHL	*02:01			-	-	-	-	-	-	-	+	+	+	+
24	9035 JBUSH	*04:01			-	-	+	+	-	-	-	+	-	-	+
25	9049 IBW9	*01:01			+	+	+	+	+	+	+	-	-	-	-
26	9285 WT49	*04:01			-	-	+	+	-	-	-	+	-	-	+
27	9191 CH1007	*03:01	*13:01		+	+	+	-	-	+	+	-	-	-	+
28	9320 BEL5GB	*02:01	*04:01		-	-	+	+	-	-	-	+	+	+	+
29	9050 MOU	*02:01			-	-	-	-	-	-	-	+	+	+	+
30	9021 RSH	*01:01	*105:01		+	+	+	+	+	+	+	+	-	-	+
31	9019 DUCAF	*02:02			-	-	-	-	-	-	-	+	+	+	+
32	9297 HAG	*02:01	*03:01		+	+	-	-	-	-	-	+	+	+	+
33	9098 MT14B	*04:02			-	-	-	-	-	-	-	+	+	-	+
34	9104 DHIF	*04:01			-	-	+	+	-	-	-	+	-	-	+
35	9302 SSO	*04:01			-	-	+	+	-	-	-	+	-	-	+
36	9024 KT17	*05:01			-	-	-	-	-	-	-	+	+	-	+
37	9065 HHKB	*04:01			-	-	+	+	-	-	-	+	-	-	+
38	9099 LZL	*04:02			-	-	-	-	-	-	-	+	+	-	+
39	9315 CML	*04:01	*14:01		-	-	+	+	-	-	-	+	-	-	+
40	9134 WHONP199	*05:01			-	-	-	-	-	-	-	+	+	-	+
41	9055 H0301	*05:01			-	-	-	-	-	-	-	+	+	-	+
42	9066 TAB089	*02:02			-	-	-	-	-	-	-	+	+	-	+
43	9076 T7526	*13:01			+	-	+	-	-	+	+	-	-	-	-
44	9057 TEM	*04:01			-	-	+	+	-	-	-	+	-	-	+
45	9239 SHJO	*03:01	*04:02		+	+	-	-	-	-	-	+	+	-	+
46	9013 SCHU	*04:02			-	-	-	-	-	-	-	+	+	-	+
47	9045 TUBO	*02:01	*04:02		-	-	-	-	-	-	-	+	+	+	+
48	9303 TER-ND	*02:01	*04:01		-	-	+	+	-	-	-	+	+	+	+

101.311-24u/04u – without *Taq* pol., IFU-02

“Instructions for Use” (IFU)

Lot No.: 9E3

Lot-specific information

[illegible]

101.311-24u/04u – without *Taq* pol., IFU-02

“Instructions for Use” (IFU)

Lot No.: 9E3

Lot-specific information

CELL LINE VALIDATION SHEET																				
DPB1 SSP kit ²																				
					Well ³															
				Prod. No.:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
					201668333	201668334	201668335	201668336	201777637	201668338	201668339	201777640	201668341	201668342	201668343	201777644	201668345	201668346	201668347	201668348
	IHCW cell line ¹		DPB1																	
1	9001	SA	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*04:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*04:01	*14:01	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-
6	9353	SM	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*01:01	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*04:02	*18:01	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*02:01	*13:01	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*03:01	*13:01	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*01:01	*105:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*02:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*04:01	*14:01	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-
40	9134	WHONP199	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*13:01		+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*02:01	*04:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

CELL LINE VALIDATION SHEET																				
DPB1 SSP kit ²																				
					Well ³															
					49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				Prod. No.:	201668349	201668350	201777651	201777652	201777653	201777654	201777655	201668356	201668357	201668358	201777659	201668360	201668361	201668362	201777663	201777664
	IHWC cell line ¹		DPB1																	
1	9001	SA	*04:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
2	9280	LK707	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
3	9011	E4181324	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
4	9275	GU373	*04:02	*17:01	-	-	-	-	-	-	-	-	-	+	-	+	-	+	-	-
5	9009	KAS011	*04:01	*14:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
6	9353	SM	*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
7	9020	QBL	*02:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
9	9026	YAR	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
10	9107	LKT3	*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
11	9051	PITOUT	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
12	9052	DBB	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
13	9004	JESTHOM	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
14	9071	OLGA	*03:01	*04:02	-	-	-	-	-	-	-	-	+	-	-	-	-	+	-	-
15	9075	DKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
16	9037	SWEIG007	*04:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
17	9282	CTM3953540	*01:01	*02:01	-	+	-	-	-	-	-	-	-	-	-	+	-	+	-	-
18	9257	32367	*04:02	*18:01	-	+	-	-	-	-	-	-	-	-	-	+	-	+	-	-
19	9038	BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
20	9059	SLE005	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
21	9064	AMALA	*04:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
22	9056	KOSE	*02:01	*13:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
23	9124	IHL	*02:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
24	9035	JBUSH	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
25	9049	IBW9	*01:01		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
26	9285	WT49	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
27	9191	CH1007	*03:01	*13:01	-	-	-	-	-	-	-	-	-	+	+	-	-	+	-	-
28	9320	BEL5GB	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
29	9050	MOU	*02:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
30	9021	RSH	*01:01	*105:01	-	+	-	-	-	-	-	-	-	-	-	+	-	+	-	-
31	9019	DUCAF	*02:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
32	9297	HAG	*02:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
33	9098	MT14B	*04:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
34	9104	DHIF	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
35	9302	SSTO	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
36	9024	KT17	*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
37	9065	HHKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
38	9099	LZL	*04:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
39	9315	CML	*04:01	*14:01	-	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-
40	9134	WHONP199	*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
41	9055	H0301	*05:01		-	-	-	-	-	-	-	-	-	-	+	-	-	+	-	-
42	9066	TAB089	*02:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
43	9076	T7526	*13:01		-	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-
44	9057	TEM	*04:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
45	9239	SHJO	*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	+	+	-	+	-	-
46	9013	SCHU	*04:02		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
47	9045	TUBO	*02:01	*04:02	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-
48	9303	TER-ND	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

CELL LINE VALIDATION SHEET															
DPB1 SSP kit ²															
										Well ³					
										65	66	67	68	69	70
										71	72	73	74	75	76
										77	78	79	80		
										Prod. No.:	201777665	201777666	201777667	201668368	201777669
										201777670	201668371	201668372	201777673	201668374	201668375
										201777676	201777677	201777678	201777679	201777680	
IHCW cell line ¹		DPB1													
1	9001 SA	*04:02		-	-	-	-	-	-	-	-	-	-	+	-
2	9280 LK707	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*04:02	*17:01	-	-	-	-	-	-	-	-	-	-	+	-
5	9009 KAS011	*04:01	*14:01	-	-	-	-	-	-	-	-	-	-	+	-
6	9353 SM	*05:01		-	-	-	-	-	-	-	-	-	-	+	-
7	9020 QBL	*02:02		-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*05:01		-	-	-	-	-	-	-	-	-	-	+	-
11	9051 PITOUT	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	+	-
15	9075 DKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*04:02		-	-	-	-	-	-	-	-	-	-	+	-
17	9282 CTM3953540	*01:01	*02:01	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*04:02	*18:01	-	-	-	-	-	-	-	-	-	-	+	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:01		-	-	-	-	-	-	-	-	-	-	+	-
21	9064 AMALA	*04:02		-	-	-	-	-	-	-	-	-	-	+	-
22	9056 KOSE	*02:01	*13:01	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01		-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*01:01		-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*03:01	*13:01	-	-	-	-	-	-	-	-	-	-	+	-
28	9320 BEL5GB	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*02:01		-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*01:01	*105:01	-	-	-	-	-	-	-	-	-	-	+	-
31	9019 DUCAF	*02:02		-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01	*03:01	-	-	-	-	-	-	-	-	-	-	+	-
33	9098 MT14B	*04:02		-	-	-	-	-	-	-	-	-	-	+	-
34	9104 DHIF	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*05:01		-	-	-	-	-	-	-	-	-	-	+	-
37	9065 HHKB	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*04:02		-	-	-	-	-	-	-	-	-	-	+	-
39	9315 CML	*04:01	*14:01	-	-	-	-	-	-	-	-	-	-	+	-
40	9134 WHONP199	*05:01		-	-	-	-	-	-	-	-	-	-	+	-
41	9055 H0301	*05:01		-	-	-	-	-	-	-	-	-	-	+	-
42	9066 TAB089	*02:02		-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*13:01		-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*04:01		-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*03:01	*04:02	-	-	-	-	-	-	-	-	-	-	+	-
46	9013 SCHU	*04:02		-	-	-	-	-	-	-	-	-	-	+	-
47	9045 TUBO	*02:01	*04:02	-	-	-	-	-	-	-	-	-	-	+	-
48	9303 TER-ND	*02:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-

101.311-24/04 – including *Taq* pol., IFU-01
 101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

CELL LINE VALIDATION SHEET															
DPB1 SSP kit ²															
						Well ³									
						81	82	83	84	85	86	87	88	89	90
					Prod. No.:	201668381	201668382	201668383	201668384	201777685	201777686	201668387	201668388	201777689	201777690
						201668391	201668392	201777693	201777694	201668395					
	IHWC cell line ¹	DPB1													
1	9001 SA	*04:02				-	+	-	-	-	-	-	-	-	-
2	9280 LK707	*04:01				-	+	+	-	-	-	-	-	-	-
3	9011 E4181324	*02:01	*04:01			-	+	+	-	-	-	-	-	-	-
4	9275 GU373	*04:02	*17:01			-	+	-	-	-	-	-	-	-	-
5	9009 KAS011	*04:01	*14:01			-	+	+	-	-	-	-	-	-	-
6	9353 SM	*05:01				-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*02:02				-	+	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01				-	+	+	-	-	-	-	-	-	-
9	9026 YAR	*04:01				-	+	+	-	-	-	-	-	-	-
10	9107 LKT3	*05:01				-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*04:01				-	+	+	-	-	-	-	-	-	-
12	9052 DBB	*04:01				-	+	+	-	-	-	-	-	-	-
13	9004 JESTHOM	*04:01				-	+	+	-	-	-	-	-	-	-
14	9071 OLGA	*03:01	*04:02			-	+	-	-	-	-	-	-	-	-
15	9075 DKB	*04:01				-	+	+	-	-	-	-	-	-	-
16	9037 SWEIG007	*04:02				-	+	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*01:01	*02:01			-	+	-	-	-	-	-	-	-	+
18	9257 32367	*04:02	*18:01			-	+	-	-	-	-	+	-	-	-
19	9038 BM16	*02:01				-	+	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:01				-	+	-	-	-	-	-	-	-	-
21	9064 AMALA	*04:02				-	+	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01	*13:01			-	+	-	-	-	-	-	-	-	+
23	9124 IHL	*02:01				-	+	-	-	-	-	-	-	-	-
24	9035 JBUSH	*04:01				-	+	+	-	-	-	-	-	-	-
25	9049 IBW9	*01:01				-	+	-	-	-	-	-	-	-	+
26	9285 WT49	*04:01				-	+	+	-	-	-	-	-	-	-
27	9191 CH1007	*03:01	*13:01			-	+	-	-	-	-	-	-	-	+
28	9320 BEL5GB	*02:01	*04:01			-	+	+	-	-	-	-	-	-	-
29	9050 MOU	*02:01				-	+	-	-	-	-	-	-	-	-
30	9021 RSH	*01:01	*105:01			-	+	-	-	-	-	-	-	-	+
31	9019 DUCAF	*02:02				-	+	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01	*03:01			-	+	-	-	-	-	-	-	-	-
33	9098 MT14B	*04:02				-	+	-	-	-	-	-	-	-	-
34	9104 DHIF	*04:01				-	+	+	-	-	-	-	-	-	-
35	9302 SSTS	*04:01				-	+	+	-	-	-	-	-	-	-
36	9024 KT17	*05:01				-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*04:01				-	+	+	-	-	-	-	-	-	-
38	9099 LZL	*04:02				-	+	-	-	-	-	-	-	-	-
39	9315 CML	*04:01	*14:01			-	+	+	-	-	-	-	-	-	-
40	9134 WHONP199	*05:01				-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*05:01				-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:02				-	+	-	-	-	-	-	-	-	-
43	9076 T7526	*13:01				-	+	-	-	-	-	-	-	-	+
44	9057 TEM	*04:01				-	+	+	-	-	-	-	-	-	-
45	9239 SHJO	*03:01	*04:02			-	+	-	-	-	-	-	-	-	-
46	9013 SCHU	*04:02				-	+	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:01	*04:02			-	+	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*04:01			-	+	+	-	-	-	-	-	-	-

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: 9E3

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 41 to 44, 47, 49, 51 to 56, 61, 63 to 72, 74, 76 to 81, 84 to 87 and 89 to 93 were available.

The specificities of the primers in primer solutions 43, 47, 49, 68 and 86 were tested by separately adding one or two 5'-primers, respectively one 3'-primer. In primer solutions 41, 42, 53, 54, 56, 63 to 67, 71, 81, 84, 85 and 89 to 91 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 44, 51, 52, 55, 61, 69, 70, 72, 74, 76 to 80, 87, 92 and 93 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 1, 2, 12, 15, 16, 23, 25 to 27, 31 to 33, 36, 38, 45, 49, 50, 68, 75, 83 and 86 one or more 5'-primers were not possible to test. In primer solutions 5 to 9, 11, 16, 24, 28, 29, 31, 33, 38, 43, 46 to 48, 73 and 94 one or more 3'-primers were not possible to test.

Additional primers in primer solutions 14, 29, 33, 38, 40, 45, 46, 48, 50 and 94 were tested by separately adding 5'-primers or 3'-primers.

³The DPB1*04:02 allele is not amplified by primer mix 57 in the 9275 (GU373), 9257 (32367), 9021 (RSH) and 9239 (SHJO) cell lines. For further details see the specificity table.

The DPB1*04:02 allele is not amplified by primer mix 58 in the 9275 (GU373), 9191 (CH1007) and 9302 (SSTO) cell lines. For further details see the specificity table.

The DPB1*04:02 allele is not amplified by primer mix 60 in the 9021 (RSH) and 9239 (SHJO) cell lines. For further details see the specificity table.

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

101.311-24/04 – including *Taq* pol., IFU-01
101.311-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **9E3**

Lot-specific information

ADDRESSES:

Manufacturer:

Olerup SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Tel: +46-8-717 88 27

Fax: +46-8-717 88 18

E-mail: olerup-se@caredx.com

Web page: <http://www.olerup.com>

Distributed by:

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

Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: olerup-at@caredx.com

Web page: <http://www.olerup.com>

Olerup Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

Tel: 1-877-OLERUP1

Fax: 610-344-7989

E-mail: olerup-us@caredx.com

Web page: <http://www.olerup.com>

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