

Olerup SSP® HLA-Cw*07

Product number:	101.615-24u/04u – without <i>Taq</i> pol.
Lot number:	49G
Expiry date:	2011-November-01
Number of tests:	24 tests – Product No. 101.615-24u 4 tests – Product No. 101.615-04u
Number of wells per test:	40
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. 49G.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*® HLA-Cw*07 LOT

The HLA-Cw*07 specificity and interpretation tables have been updated for the HLA-Cw alleles described since the previous *Olerup SSP*® HLA-Cw*07 lot was made (Lot No. 06F).

Eight wells have been added to the HLA-Cw*07 kit,
wells **33 to 40**.

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

Well	5'-primer	3'-primer	rationale
1	Exchanged	Exchanged	Exchanged primers for increased yield of specific PCR product.
12	-	Modified	Increased specificity of amplification.
13	-	Added	Primer added for the Cw*075602 allele.
15	Added	Added	Primer pair from well 31 for improved resolution of the Cw*0750 allele.
18	Added	-	Primer added for improved yield of specific PCR product.
24	-	-	Exchanged positive control primer pair.
27	Modified, added	Added	Improved specificity of primer pair, primer pair added for the Cw*0769 allele.
31	Moved	Moved	Primer pair moved to well 15.
33	New	New	New primer pair for the Cw*0766 allele.

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34	New	New	New primer pairs for the Cw*0767 and Cw*0770 alleles.
35	New	New	New primer pairs for the Cw*0771 and Cw*0772 alleles.
36	New	New	New primer pair for the Cw*0764 and Cw*0773 alleles.
37	New	New	New primer pairs for the Cw*0763 and Cw*0768 alleles.
38	New	New	New primer pairs for the Cw*0758 and Cw*0761N alleles.
39	New	New	New primer pairs for the Cw*0759 and Cw*0774 alleles.
40	New	New	New primer pairs for the Cw*0762 and Cw*0765 alleles.

Change in revision R01 compared to R00:

1. The Cw*0766 allele is weakly amplified by primer mix 33.

PRODUCT DESCRIPTION

HLA-Cw*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-Cw*0701 to HLA-Cw*0774 alleles.

PLATE LAYOUT

Each test consists of 40 PCR reactions in a 48 well cut PCR plate. Wells 41 to 48 are empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
empty	empty	empty	empty	empty	empty	empty	empty

The 48 well cut PCR plate is marked with 'HLA-Cw*07' in silver/gray ink.

Well No. 1 is marked with the Lot No. '49G'.

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.

Please note: When removing each 48 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

The interpretation of HLA-Cw*07 SSP subtypings will be influenced by the Cw*0214 allele, four Cw*03 alleles, five Cw*04 alleles, most Cw*05 alleles, most Cw*06 alleles, most Cw*08 alleles and the Cw*18 alleles when present on the other haplotype. In addition, the A*2910 allele will be amplified by primer mix 12, the B*0777 allele will be amplified by primer mixes 18 and 30, the B*0806 and B*0817 alleles will be amplified by primer mix 32, the B*2736 allele will be amplified by primer mix 7, the B*4060 allele by primer mixes 4, 18 and 30 and the B*5608 and B*5614 alleles will be amplified by primer mix 25.

UNIQUELY IDENTIFIED ALLELES

All the HLA-Cw*07 alleles, i.e. **Cw*0701 to Cw*0774**, recognized by the HLA Nomenclature Committee in July 2009¹ will give rise to unique amplification patterns by the primers in the HLA-Cw*07 subtyping kit.

The HLA-Cw*07 subtyping kit cannot distinguish the Cw*070101 to Cw*070104 and Cw*070106 to Cw*070109 alleles, the Cw*07020101 to Cw*070206 alleles, the Cw*070401 and Cw*070402, the Cw*072701 and Cw*072702 or the Cw*075601 and Cw*075602 alleles.

¹HLA-Cw alleles listed on the IMGT/HLA web page 2009-July-17, release 2.26.0, www.ebi.ac.uk/imgt/hla.

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RESOLUTION IN HOMO- AND HETEROZYGOTES

The 74 HLA-Cw*07 alleles give rise to 74 amplification patterns, as the Cw*070105 has a different amplification patterns than the other Cw*0701xx alleles, that can be combined in 2 775 homozygous and heterozygous combinations. 991 of these genotypes do not give rise to unique amplification patterns. (The different lengths of the specific PCR products in lanes 1, 5, 8, 9, 11, 15, 18 to 21, 23, 25, 26, 34, 35, 38 and 39 were not considered in these calculations.)

+++++---+ -+-----+ -----+--- -+-----+ -+-----+ 0702,0706 = 0706,0754
+++++----- +---+-----+ -----+ -+-----+ -+-----+ 0709,0710 = 0724,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0713 = 0728,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0715 = 0749,0752
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0733N = 0709,0751 = 0726,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0701,0733N = 0726,0729 = 0726,0733N
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0748 = 0744,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0754 = 0718,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0723 = 0721,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0725 = 0722,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0746 = 0730,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0732N = 0749,0755N
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0737 = 0749,0769
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0747 = 0735,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0742 = 0736,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0739 = 0740,0749
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0767 = 0749,0770
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0772 = 0749,0771
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0764 = 0749,0773
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0761N = 0749,0758
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0774 = 0749,0759
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0709,0762 = 0749,0765
+++++----- +-----+---+ -+-----+ -+-----+ -+-----+ 0701,0749 = 0702,0709 = 0709,0729 = 0709,0749
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0728 = 0713,0724
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0752 = 0715,0724
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0726 = 0724,0751
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0744 = 0724,0748
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0718 = 0719,0743 = 0724,0754
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0721 = 0723,0724
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0722 = 0724,0725
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0730 = 0724,0746
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0755N = 0724,0732N
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0769 = 0724,0737
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0735 = 0724,0747
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0736 = 0724,0742
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0740 = 0724,0739
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0770 = 0724,0767
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0771 = 0724,0772
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0773 = 0724,0764
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0758 = 0724,0761N
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0759 = 0724,0774
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0710,0765 = 0724,0762
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0701,0710 = 0702,0724 = 0710,0724
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0713,0752 = 0715,0728
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0713,0726 = 0728,0751
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0713,0744 = 0728,0748
+++++----- -+---+---+ -+-----+ -+-----+ -+-----+ 0713,0718 = 0728,0754

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++++-----	-----++	-----+-	-----	-----	0713,0721 = 0723,0728
++++-----	-----++	-----+	-----	-----	0713,0722 = 0725,0728
++++-----	-----++	-----	+-----	-----	0713,0730 = 0728,0746
++++-----	-----++	-----	-+-----	-----	0713,0755N = 0728,0732N
++++-----	-----++	-----	--+-----	-----	0713,0769 = 0728,0737
++++-----	-----++	-----	---+-----	-----	0713,0735 = 0728,0747
++++-----	-----++	-----	----+-----	-----	0713,0736 = 0728,0742
++++-----	-----++	-----	-----+	-----	0713,0740 = 0728,0739
++++-----	-----++	-----	-----+	-----	0713,0770 = 0728,0767
++++-----	-----++	-----	-----+	-----	0713,0771 = 0728,0772
++++-----	-----++	-----	-----+	-----	0713,0773 = 0728,0764
++++-----	-----++	-----	-----+	-----	0713,0758 = 0728,0761N
++++-----	-----++	-----	-----+	-----	0713,0759 = 0728,0774
++++-----	-----++	-----	-----+	-----	0713,0765 = 0728,0762
++++-----	-----++	-----	-----	-----	0701,0713 = 0702,0728 = 0713,0728
++++-----	-----++	-----+	-----	-----	0714,0719 = 0718,0750
++++-----	-----++	-+-----	-----	-----	0715,0726 = 0751,0752
++++-----	-----++	-+-----	-----	-----	0715,0744 = 0748,0752
++++-----	-----++	-+-----	-----	-----	0715,0718 = 0752,0754
++++-----	-----++	-+-----	-----	-----	0715,0721 = 0723,0752
++++-----	-----++	-+-----	-----	-----	0715,0722 = 0725,0752
++++-----	-----++	-+-----	+-----	-----	0715,0730 = 0746,0752
++++-----	-----++	-+-----	-+-----	-----	0715,0755N = 0732N,0752
++++-----	-----++	-+-----	--+-----	-----	0715,0769 = 0737,0752
++++-----	-----++	-+-----	---+-----	-----	0715,0735 = 0747,0752
++++-----	-----++	-+-----	----+-----	-----	0715,0736 = 0742,0752
++++-----	-----++	-+-----	-----+	-----	0715,0740 = 0739,0752
++++-----	-----++	-+-----	-----+	-----	0715,0770 = 0752,0767
++++-----	-----++	-+-----	-----+	-----	0715,0771 = 0752,0772
++++-----	-----++	-+-----	-----+	-----	0715,0773 = 0752,0764
++++-----	-----++	-+-----	-----+	-----	0715,0758 = 0752,0761N
++++-----	-----++	-+-----	-----+	-----	0715,0759 = 0752,0774
++++-----	-----++	-+-----	-----+	-----	0715,0765 = 0752,0762
++++-----	-----++	-+-----	-----	-----	0701,0715 = 0702,0752 = 0715,0752
++++-----	-----++	--+-----	-----	-----	0726,0748 = 0744,0751
++++-----	-----++	--+-----	-----	-----	0718,0751 = 0726,0754
++++-----	-----++	--+-----	-----	-----	0721,0751 = 0723,0726
++++-----	-----++	--+-----	-----	-----	0722,0751 = 0725,0726
++++-----	-----++	--+-----	+-----	-----	0726,0746 = 0730,0751
++++-----	-----++	--+-----	-+-----	-----	0726,0732N = 0751,0755N
++++-----	-----++	--+-----	--+-----	-----	0726,0737 = 0751,0769
++++-----	-----++	--+-----	---+-----	-----	0726,0747 = 0735,0751
++++-----	-----++	--+-----	----+-----	-----	0726,0742 = 0736,0751
++++-----	-----++	--+-----	-----+	-----	0726,0739 = 0740,0751
++++-----	-----++	--+-----	-----+	-----	0726,0767 = 0751,0770
++++-----	-----++	--+-----	-----+	-----	0726,0772 = 0751,0771
++++-----	-----++	--+-----	-----+	-----	0726,0764 = 0751,0773
++++-----	-----++	--+-----	-----+	-----	0726,0761N = 0751,0758
++++-----	-----++	--+-----	-----+	-----	0726,0774 = 0751,0759
++++-----	-----++	--+-----	-----+	-----	0726,0762 = 0751,0765
++++-----	-----++	--+-----	-----	-----	0701,0751 = 0702,0726 = 0726,0751
++++-----	-----++	--+-----	-----	-----	0718,0748 = 0744,0754
++++-----	-----++	--+-----	-----	-----	0721,0748 = 0723,0744
++++-----	-----++	--+-----	-----	-----	0722,0748 = 0725,0744
++++-----	-----++	--+-----	+-----	-----	0730,0748 = 0744,0746
++++-----	-----++	--+-----	-+-----	-----	0732N,0744 = 0748,0755N
++++-----	-----++	--+-----	--+-----	-----	0737,0744 = 0748,0769
++++-----	-----++	--+-----	---+-----	-----	0735,0748 = 0744,0747
++++-----	-----++	--+-----	----+-----	-----	0736,0748 = 0742,0744

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++++-----	-----+	---+----	-----+	-----	0739,0744 = 0740,0748
++++-----	-----+	---+----	-----	--+-----	0744,0767 = 0748,0770
++++-----	-----+	---+----	-----	--+-----	0744,0772 = 0748,0771
++++-----	-----+	---+----	-----	---+----	0744,0764 = 0748,0773
++++-----	-----+	---+----	-----	-----+--	0744,0761N = 0748,0758
++++-----	-----+	---+----	-----	-----+--	0744,0774 = 0748,0759
++++-----	-----+	---+----	-----	-----+--	0744,0762 = 0748,0765
++++-----	-----+	---+----	-----	-----	0701,0748 = 0702,0744 =
				0744,0748	
++++-----	-----+	---+--+	-----	-----	0718,0723 = 0721,0754
++++-----	-----+	---+--+	-----	-----	0718,0725 = 0722,0754
++++-----	-----+	---+--+	+-----	-----	0718,0746 = 0730,0754
++++-----	-----+	---+--+	+-----	-----	0718,0732N = 0719,0731 =
				0754,0755N	
++++-----	-----+	---+--+	--+-----	-----	0718,0737 = 0754,0769
++++-----	-----+	---+--+	--+-----	-----	0718,0747 = 0735,0754
++++-----	-----+	---+--+	--+-----	-----	0718,0742 = 0736,0754
++++-----	-----+	---+--+	--+-----	-----	0718,0739 = 0740,0754
++++-----	-----+	---+--+	--+-----	-----	0718,0767 = 0754,0770
++++-----	-----+	---+--+	--+-----	-----	0718,0772 = 0754,0771
++++-----	-----+	---+--+	--+-----	-----	0718,0764 = 0754,0773
++++-----	-----+	---+--+	--+-----	-----	0718,0761N = 0754,0758
++++-----	-----+	---+--+	--+-----	-----	0718,0774 = 0754,0759
++++-----	-----+	---+--+	--+-----	-----	0718,0762 = 0754,0765
++++-----	-----+	---+--+	--+-----	-----	0701,0754 = 0702,0718 =
				0718,0754 = 0719,0727	
++++-----	-----+	-----+--	-----	---+-----	0702,0720 = 0720,0764
++++-----	-----+	-----+--	-----	-----	0721,0725 = 0722,0723
++++-----	-----+	-----+--	+-----	-----	0721,0746 = 0723,0730
++++-----	-----+	-----+--	+-----	-----	0721,0732N = 0723,0755N
++++-----	-----+	-----+--	--+-----	-----	0721,0737 = 0723,0769
++++-----	-----+	-----+--	--+-----	-----	0721,0747 = 0723,0735
++++-----	-----+	-----+--	--+-----	-----	0721,0742 = 0723,0736
++++-----	-----+	-----+--	--+-----	-----	0721,0739 = 0723,0740
++++-----	-----+	-----+--	--+-----	-----	0721,0767 = 0723,0770
++++-----	-----+	-----+--	--+-----	-----	0721,0772 = 0723,0771
++++-----	-----+	-----+--	--+-----	-----	0721,0764 = 0723,0773
++++-----	-----+	-----+--	--+-----	-----	0721,0761N = 0723,0758
++++-----	-----+	-----+--	--+-----	-----	0721,0774 = 0723,0759
++++-----	-----+	-----+--	--+-----	-----	0721,0762 = 0723,0765
++++-----	-----+	-----+--	--+-----	-----	0701,0723 = 0702,0721 =
				0721,0723	
++++-----	-----+	-----+--	+-----	-----	0722,0746 = 0725,0730
++++-----	-----+	-----+--	--+-----	-----	0722,0732N = 0725,0755N
++++-----	-----+	-----+--	--+-----	-----	0722,0737 = 0725,0769
++++-----	-----+	-----+--	--+-----	-----	0722,0747 = 0725,0735
++++-----	-----+	-----+--	--+-----	-----	0722,0742 = 0725,0736
++++-----	-----+	-----+--	--+-----	-----	0722,0739 = 0725,0740
++++-----	-----+	-----+--	--+-----	-----	0722,0767 = 0725,0770
++++-----	-----+	-----+--	--+-----	-----	0722,0772 = 0725,0771
++++-----	-----+	-----+--	--+-----	-----	0722,0764 = 0725,0773
++++-----	-----+	-----+--	--+-----	-----	0722,0761N = 0725,0758
++++-----	-----+	-----+--	--+-----	-----	0722,0774 = 0725,0759
++++-----	-----+	-----+--	--+-----	-----	0722,0762 = 0725,0765
++++-----	-----+	-----+--	--+-----	-----	0701,0725 = 0702,0722 =
				0722,0725	
++++-----	-----+	-----	++-----	-----	0730,0732N = 0746,0755N
++++-----	-----+	-----	++-----	-----	0730,0737 = 0746,0769
++++-----	-----+	-----	++-----	-----	0730,0747 = 0735,0746
++++-----	-----+	-----	++-----	-----	0730,0742 = 0736,0746
++++-----	-----+	-----	++-----	-----	0730,0739 = 0740,0746
++++-----	-----+	-----	++-----	-----	0730,0767 = 0746,0770



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++++-----	-----+	-----	+-----	---+-----	0730,0772 = 0746,0771
++++-----	-----+	-----	+-----	----+-----	0730,0764 = 0746,0773
++++-----	-----+	-----	+-----	-----+--	0730,0761N = 0746,0758
++++-----	-----+	-----	+-----	-----+--	0730,0774 = 0746,0759
++++-----	-----+	-----	+-----	-----+--	0730,0762 = 0746,0765
++++-----	-----+	-----	+-----	-----	0701,0746 = 0702,0730 =
					0730,0746
++++-----	-----+	-----	---+-----	-----	0732N,0769 = 0737,0755N
++++-----	-----+	-----	---+-----	-----	0732N,0735 = 0747,0755N
++++-----	-----+	-----	---+-----	-----	0732N,0736 = 0742,0755N
++++-----	-----+	-----	---+-----	-----	0732N,0740 = 0739,0755N
++++-----	-----+	-----	---+-----	-----	0732N,0770 = 0755N,0767
++++-----	-----+	-----	---+-----	-----	0732N,0771 = 0755N,0772
++++-----	-----+	-----	---+-----	-----	0732N,0773 = 0755N,0764
++++-----	-----+	-----	---+-----	-----	0732N,0758 = 0755N,0761N
++++-----	-----+	-----	---+-----	-----	0732N,0759 = 0755N,0774
++++-----	-----+	-----	---+-----	-----	0732N,0765 = 0755N,0762
++++-----	-----+	-----	---+-----	-----	0701,0732N = 0702,0755N =
					0732N,0755N
++++-----	-----+	-----	---+-----	-----	0735,0737 = 0747,0769
++++-----	-----+	-----	---+-----	-----	0736,0737 = 0742,0769
++++-----	-----+	-----	---+-----	-----	0737,0740 = 0739,0769
++++-----	-----+	-----	---+-----	-----	0737,0770 = 0767,0769
++++-----	-----+	-----	---+-----	-----	0737,0771 = 0769,0772
++++-----	-----+	-----	---+-----	-----	0737,0773 = 0764,0769
++++-----	-----+	-----	---+-----	-----	0737,0758 = 0761N,0769
++++-----	-----+	-----	---+-----	-----	0737,0759 = 0769,0774
++++-----	-----+	-----	---+-----	-----	0737,0765 = 0762,0769
++++-----	-----+	-----	---+-----	-----	0701,0737 = 0702,0769 =
					0737,0769
++++-----	-----+	-----	---+-----	-----	0735,0742 = 0736,0747
++++-----	-----+	-----	---+-----	-----	0735,0739 = 0740,0747
++++-----	-----+	-----	---+-----	-----	0735,0767 = 0747,0770
++++-----	-----+	-----	---+-----	-----	0735,0772 = 0747,0771
++++-----	-----+	-----	---+-----	-----	0735,0764 = 0747,0773
++++-----	-----+	-----	---+-----	-----	0735,0761N = 0747,0758
++++-----	-----+	-----	---+-----	-----	0735,0774 = 0747,0759
++++-----	-----+	-----	---+-----	-----	0735,0762 = 0747,0765
++++-----	-----+	-----	---+-----	-----	0701,0747 = 0702,0735 =
					0735,0747
++++-----	-----+	-----	---+-----	-----	0736,0739 = 0740,0742
++++-----	-----+	-----	---+-----	-----	0736,0767 = 0742,0770
++++-----	-----+	-----	---+-----	-----	0736,0772 = 0742,0771
++++-----	-----+	-----	---+-----	-----	0736,0764 = 0742,0773
++++-----	-----+	-----	---+-----	-----	0736,0761N = 0742,0758
++++-----	-----+	-----	---+-----	-----	0736,0774 = 0742,0759
++++-----	-----+	-----	---+-----	-----	0736,0762 = 0742,0765
++++-----	-----+	-----	---+-----	-----	0701,0742 = 0702,0736 =
					0736,0742
++++-----	-----+	-----	---+-----	-----	0739,0770 = 0740,0767
++++-----	-----+	-----	---+-----	-----	0739,0771 = 0740,0772
++++-----	-----+	-----	---+-----	-----	0739,0773 = 0740,0764
++++-----	-----+	-----	---+-----	-----	0739,0758 = 0740,0761N
++++-----	-----+	-----	---+-----	-----	0739,0759 = 0740,0774
++++-----	-----+	-----	---+-----	-----	0739,0765 = 0740,0762
++++-----	-----+	-----	---+-----	-----	0701,0739 = 0702,0740 =
					0739,0740
++++-----	-----+	-----	---+-----	-----	0767,0771 = 0770,0772
++++-----	-----+	-----	---+-----	-----	0764,0770 = 0767,0773
++++-----	-----+	-----	---+-----	-----	0758,0767 = 0761N,0770
++++-----	-----+	-----	---+-----	-----	0759,0767 = 0770,0774
++++-----	-----+	-----	---+-----	-----	0762,0770 = 0765,0767

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++++-----	-----+	-----	-----	--+-----	0701,0767 = 0702,0770 =
					0767,0770
++++-----	-----+	-----	-----	+++-----	0764,0771 = 0772,0773
++++-----	-----+	-----	-----	--+---+--	0758,0772 = 0761N,0771
++++-----	-----+	-----	-----	--+---+-	0759,0772 = 0771,0774
++++-----	-----+	-----	-----	---+-----	0762,0771 = 0765,0772
++++-----	-----+	-----	-----	---+-----	0701,0772 = 0702,0771 =
					0771,0772
++++-----	-----+	-----	-----	---+---+-	0758,0764 = 0761N,0773
++++-----	-----+	-----	-----	---+---+-	0759,0764 = 0773,0774
++++-----	-----+	-----	-----	---+---+-	0762,0773 = 0764,0765
++++-----	-----+	-----	-----	---+-----	0701,0764 = 0702,0773 =
					0764,0773
++++-----	-----+	-----	-----	-----+-	0758,0774 = 0759,0761N
++++-----	-----+	-----	-----	-----++	0758,0762 = 0761N,0765
++++-----	-----+	-----	-----	-----+-	0701,0761N = 0702,0758 =
					0758,0761N
++++-----	-----+	-----	-----	-----++	0759,0762 = 0765,0774
++++-----	-----+	-----	-----	-----+-	0701,0774 = 0702,0759 =
					0759,0774
++++-----	-----+	-----	-----	-----+	0701,0762 = 0702,0765 =
					0762,0765
++++-----	-----	--+---+-	-----	-----	0716,0719 = 0719,0726
++++-----	-----	---+----	-----	-----	0701,0719 = 0718,0719
+++-+---+	-----+	-----	-----	-----	0705,0753 = 0705,0757
+++++---+	-----	---+----	-----	-----	0706,0753 = 0706,0757
+++-+---+	+-----	--+---+-	-----+	-----	0707,0753 = 0707,0757
+++-+---+	+-----	-----	-----+	-----	0709,0753 = 0709,0757
+++-+---+	--+---+-	-----	-----	-----	0743,0753 = 0743,0757
+++-+---+	--+---+-	-----	-----	-----	0724,0753 = 0724,0757
+++-+---+	-----+	-----	-----	-----	0753,0760 = 0757,0760
+++-+---+	-----+-	-----	-----	-----	0728,0753 = 0728,0757
+++-+---+	-----++	-----	-----	-----	0714,0753 = 0714,0757
+++-+---+	-----+	---+----	-----	-----	0701,0703 = 0703,0744 =
					0703,0753 = 0717,0753
+++-+---+	-----+	-----	+-----	-----	0731,0753 = 0731,0757
+++-+---+	-----+	-----	-----	-----	0727,0753 = 0727,0757
+++-+---+	-----	--+---+-	-----	-----	0752,0753 = 0752,0757
+++-+---+	-----	--+---+-	-----	-----	0716,0753 = 0716,0757 =
					0726,0753 = 0726,0757
+++-+---+	-----	---+----	-----	-----	0744,0753 = 0744,0757
+++-+---+	-----	---+----	-----	-----	0718,0753 = 0718,0757
+++-+---+	-----	---+----	-----	---+-----	0720,0753 = 0720,0757
+++-+---+	-----	---+----	-----	-----	0721,0753 = 0721,0757
+++-+---+	-----	-----+	-----	-----	0722,0753 = 0722,0757
+++-+---+	-----	-----	+-----	-----	0730,0753 = 0730,0757
+++-+---+	-----	-----	+-----	-----	0753,0755N = 0755N,0757
+++-+---+	-----	-----	--+---+-	-----	0753,0769 = 0757,0769
+++-+---+	-----	-----	---+----	-----	0735,0753 = 0735,0757
+++-+---+	-----	-----	---+----	-----	0736,0753 = 0736,0757
+++-+---+	-----	-----	-----+	-----	0740,0753 = 0740,0757
+++-+---+	-----	-----	-----	--+-----	0753,0770 = 0757,0770
+++-+---+	-----	-----	-----	---+-----	0753,0771 = 0757,0771
+++-+---+	-----	-----	-----	---+-----	0753,0773 = 0757,0773
+++-+---+	-----	-----	-----	-----+-	0753,0758 = 0757,0758
+++-+---+	-----	-----	-----	-----+	0753,0759 = 0757,0759
+++-+---+	-----	-----	-----	-----+	0753,0765 = 0757,0765
+++-+---+	-----	-----	-----	-----	0701,0753 = 0701,0757 =
					070105,0753 = 0753,0753 =
					0753,0757
+++-+---+	-----+	-----	-----	-----	0701,0705 = 070105,0705

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+++-----+ -----+ ----+----	-----	-----	0706,0727 = 0706,0745 =
			0718,0745
+++-----+ ----- --++----	-----	-----	0706,0716 = 0706,0726
+++-----+ ----- ----+----	-----	-----	0701,0706 = 070105,0706 =
			0706,0706 = 0706,0718
+++-----+ +----- --+-----	-----	-----	0701,0707 = 070105,0707 =
			0707,0709 = 0707,0726 =
			0709,0716 = 0709,0726
+++-----+ +----- -----	-----	-----	0701,0709 = 070105,0709 =
			0709,0709
+++----- --+-----+ ----+----	-----	-----	0717,0724 = 0743,0744
+++----- --+-----+ -----	-----	-----	0724,0731 = 0743,0755N
+++----- --+-----+ -----	-----	-----	0701,0743 = 070105,0743 =
			0724,0727 = 0724,0743
+++----- --+----- --+-----	-----	-----	0716,0724 = 0724,0726
+++----- --+----- -----	-----	-----	0701,0724 = 070105,0724 =
			0724,0724
+++----- -----+---- -----	-----	-----	0701,0760 = 070105,0760
+++----- -----+---- --+-----	-----	-----	0716,0728 = 0726,0728
+++----- -----+---- -----	-----	-----	0701,0728 = 070105,0728 =
			0728,0728
+++----- -----++ -----	-----	-----	0701,0714 = 070105,0714
+++----- -----+ --+-----	-----	-----	0717,0755N = 0731,0744
+++----- -----+ --+-----	-----	-----	0701,0717 = 0717,0744 =
			0727,0744
+++----- -----+ -----	-----	-----	0701,0731 = 070105,0731 =
			0727,0755N = 0731,0755N
+++----- -----+ -----	-----	-----	0701,0727 = 070105,0727
+++----- ----- --+-----	-----	-----	0716,0752 = 0726,0752
+++----- ----- --+-----	-----	-----	0701,0752 = 070105,0752 =
			0752,0752
+++----- ----- --++----	-----	-----	0716,0744 = 0726,0744
+++----- ----- --++----	-----	-----	0716,0718 = 0718,0726
+++----- ----- --+----+	-----	-----	0716,0720 = 0720,0726
+++----- ----- --+----+	-----	-----	0716,0721 = 0721,0726
+++----- ----- --+----+	-----	-----	0716,0722 = 0722,0726
+++----- ----- --+----+	-----	-----	0716,0730 = 0726,0730
+++----- ----- --+----+	-----	-----	0716,0755N = 0726,0755N
+++----- ----- --+----+	-----	-----	0716,0769 = 0726,0769
+++----- ----- --+----+	-----	-----	0716,0735 = 0726,0735
+++----- ----- --+----+	-----	-----	0716,0736 = 0726,0736
+++----- ----- --+----+	-----	-----	0716,0740 = 0726,0740
+++----- ----- --+----+	-----	-----	0716,0770 = 0726,0770
+++----- ----- --+----+	-----	-----	0716,0771 = 0726,0771
+++----- ----- --+----+	-----	-----	0716,0773 = 0726,0773
+++----- ----- --+----+	-----	-----	0716,0758 = 0726,0758
+++----- ----- --+----+	-----	-----	0716,0759 = 0726,0759
+++----- ----- --+----+	-----	-----	0716,0765 = 0726,0765
+++----- ----- --+----+	-----	-----	0701,0716 = 0701,0726 =
			070105,0716 = 070105,0726 =
			0716,0726 = 0726,0726
+++----- ----- --+----	-----	-----	0701,0744 = 070105,0744 =
			0744,0744
+++----- ----- ----+----	-----	-----	0701,0718 = 070105,0718 =
			0718,0718
+++----- ----- -----+--	-----	-----	0701,0720 = 070105,0720 =
			0720,0720 = 0720,0773
+++----- ----- -----+--	-----	-----	0701,0721 = 070105,0721 =
			0721,0721
+++----- ----- -----+	-----	-----	0701,0722 = 070105,0722 =
			0722,0722

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+++-----	-----	-----	+-----	-----	0701,0730 = 070105,0730 =
					0730,0730
+++-----	-----	-----	+-----	-----	0701,0755N = 070105,0755N =
					0755N,0755N
+++-----	-----	-----	--+-----	-----	0701,0769 = 070105,0769 =
					0769,0769
+++-----	-----	-----	---+-----	-----	0701,0735 = 070105,0735 =
					0735,0735
+++-----	-----	-----	----+-----	-----	0701,0736 = 070105,0736 =
					0736,0736
+++-----	-----	-----	-----+-----	-----	0701,0740 = 070105,0740 =
					0740,0740
+++-----	-----	-----	-----+-----	-----	0701,0770 = 070105,0770 =
					0770,0770
+++-----	-----	-----	-----+-----	-----	0701,0771 = 070105,0771 =
					0771,0771
+++-----	-----	-----	-----+-----	-----	0701,0773 = 070105,0773 =
					0773,0773
+++-----	-----	-----	-----+-----	-----	0701,0758 = 070105,0758 =
					0758,0758
+++-----	-----	-----	-----+-----	-----	0701,0759 = 070105,0759 =
					0759,0759
+++-----	-----	-----	-----+-----	-----	0701,0765 = 070105,0765 =
					0765,0765
+++-----	-----	-----	-----	-----	0701,0701 = 0701,070105
+++-----	+-----+	--+-----	-----+	-----	0702,0707 = 0707,0729 =
					0707,0733N = 0707,0749 =
					0707,0751 = 0716,0749
+++-----	+-----+	--+-----	-----	-----	0716,0729 = 0716,0733N =
					0727,0733N
+++-----	--+-----+	-----	-----	-----	0710,0760 = 0743,0756
+++-----	--+-----+	-----	-----	-----	0710,0714 = 0743,0750
+++-----	--+-----+	--+-----	-----	-----	0710,0716 = 0743,0751
+++-----	--+-----+	-----	+-----	-----	0710,0731 = 0732N,0743
+++-----	--+-----+	-----	-----	-----	0702,0743 = 0710,0727 =
					0710,0743
+++-----	----+-----+	-----	-----	-----	0714,0756 = 0750,0760
+++-----	----+-----+	--+-----	-----	-----	0716,0756 = 0751,0760
+++-----	----+-----+	-----	+-----	-----	0731,0756 = 0732N,0760
+++-----	----+-----+	-----	-----	-----	0702,0760 = 0727,0756 =
					0756,0760
+++-----	-----++	--+-----	-----	-----	0714,0751 = 0716,0750
+++-----	-----++	-----	+-----	-----	0714,0732N = 0731,0750
+++-----	-----++	-----	-----	-----	0702,0714 = 0714,0750 =
					0727,0750
+++-----	-----++	--+-----	+-----	-----	0716,0732N = 0731,0751
+++-----	-----++	--+-----	-----	-----	0702,0716 = 0716,0751 =
					0727,0751
+++-----	-----+	-----	+-----	-----	0702,0731 = 0727,0732N =
					0731,0732N
+++-----	----+-----+	+-----	-----	-----	0704,0760 = 0711,0727 =
					0711,0760
+++-----	----+-----+	-----	-----	-----	0705,0705 = 0705,0727
+++-----	+-----+	--+-----	-----+	-----	0707,0707 = 0707,0716
+++-----	--+-----+	-----	-----	-----	0727,0743 = 0743,0743
+++-----	-----++	-----	-----	-----	0714,0714 = 0714,0727
+++-----	-----+	-----	+-----	-----	0727,0731 = 0731,0731
+---+-----	-----+	+-----	-----	-----	0719,0763 = 0719,0768
+---+-----	-----+	---+-----	-----	-----	0717,0719 = 0719,0748
+---+-----	-----+	---+-----	-----	-----	070105,0754 = 0702,0719 =
					0719,0754
+---+-----	-----	----+-----	-----	-----	070105,0719 = 0719,0719



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+++++-----	-----+	---+-----	-----	-----	070105,0703 = 0703,0757 = 0717,0757
+++++-----	-----	-----	-----	-----	070105,0757 = 0757,0757
+++++-----	-----+	---+-----	-----	-----	0702,0703 = 0703,0748
+++++-----	+-----+	+-----	-----	-----	0733N,0763 = 0733N,0768
+++++-----	+-----+	+-----	-----	-----	0749,0763 = 0749,0768
+++++-----	+-----+	+-----	-----	-----	0729,0763 = 0729,0768
+++++-----	+-----+	+-----	-----	-----	0710,0763 = 0710,0768
+++++-----	+-----+	+-----	-----	-----	0712,0768 = 0741,0768
+++++-----	+-----+	+-----	-----	-----	0711,0768 = 0756,0763 = 0756,0768
+++++-----	+-----+	+-----	-----	-----	0702,0711 = 0704,0756 = 0711,0756
+++++-----	+-----+	+-----	-----	-----	0713,0763 = 0713,0768
+++++-----	+-----+	+-----	-----	-----	0750,0763 = 0750,0768
+++++-----	+-----+	+-----	-----	-----	0715,0763 = 0715,0768
+++++-----	+-----+	+-----	-----	-----	0751,0763 = 0751,0768
+++++-----	+-----+	+-----	-----	-----	0717,0768 = 0748,0763 = 0748,0768
+++++-----	+-----+	+-----	-----	-----	0754,0763 = 0754,0768
+++++-----	+-----+	+-----	-----	-----	0723,0763 = 0723,0768
+++++-----	+-----+	+-----	-----	-----	0725,0763 = 0725,0768
+++++-----	+-----+	+-----	-----	-----	0746,0763 = 0746,0768
+++++-----	+-----+	+-----	-----	-----	0732N,0763 = 0732N,0768
+++++-----	+-----+	+-----	-----	-----	0737,0763 = 0737,0768
+++++-----	+-----+	+-----	-----	-----	0747,0763 = 0747,0768
+++++-----	+-----+	+-----	-----	-----	0742,0763 = 0742,0768
+++++-----	+-----+	+-----	-----	-----	0738,0763 = 0738,0768
+++++-----	+-----+	+-----	-----	-----	0739,0763 = 0739,0768
+++++-----	+-----+	+-----	-----	-----	0763,0766 = 0766,0768
+++++-----	+-----+	+-----	-----	-----	0763,0767 = 0767,0768
+++++-----	+-----+	+-----	-----	-----	0763,0772 = 0768,0772
+++++-----	+-----+	+-----	-----	-----	0763,0764 = 0764,0768
+++++-----	+-----+	+-----	-----	-----	0761N,0763 = 0761N,0768
+++++-----	+-----+	+-----	-----	-----	0763,0774 = 0768,0774
+++++-----	+-----+	+-----	-----	-----	0762,0763 = 0762,0768
+++++-----	+-----+	+-----	-----	-----	0702,0763 = 0702,0768 = 0704,0768 = 0763,0768 = 0768,0768
+++++-----	+-----+	---+-----	-----	-----	0717,0733N = 0733N,0748
+++++-----	+-----+	---+-----	-----	-----	0733N,0749 = 0749,0751
+++++-----	+-----+	---+-----	-----	-----	0702,0733N = 0729,0733N = 0729,0751 = 0733N,0733N = 0733N,0751
+++++-----	+-----+	---+-----	-----	-----	0717,0749 = 0748,0749
+++++-----	+-----+	---+-----	-----	-----	0717,0729 = 0729,0748
+++++-----	+-----+	---+-----	-----	-----	0702,0749 = 0729,0749 = 0749,0749
+++++-----	+-----+	---+-----	-----	-----	0702,0729 = 0729,0729
+++++-----	+-----+	---+-----	-----	-----	0710,0717 = 0710,0748
+++++-----	+-----+	---+-----	-----	-----	0702,0710 = 0710,0710
+++++-----	+-----+	---+-----	-----	-----	0717,0756 = 0748,0756
+++++-----	+-----+	---+-----	-----	-----	0702,0756 = 0756,0756
+++++-----	+-----+	---+-----	-----	-----	0713,0717 = 0713,0748
+++++-----	+-----+	---+-----	-----	-----	0702,0713 = 0713,0713
+++++-----	+-----+	---+-----	-----	-----	0717,0750 = 0748,0750
+++++-----	+-----+	---+-----	-----	-----	0702,0750 = 0750,0750
+++++-----	+-----+	---+-----	-----	-----	0715,0717 = 0715,0748
+++++-----	+-----+	---+-----	-----	-----	0702,0715 = 0715,0715
+++++-----	+-----+	---+-----	-----	-----	0717,0751 = 0748,0751
+++++-----	+-----+	---+-----	-----	-----	0702,0751 = 0751,0751
+++++-----	+-----+	---+-----	-----	-----	0717,0754 = 0748,0754

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+++-----	-----+	---+---+	-----	-----	0717,0723 = 0723,0748
+++-----	-----+	---+---+	-----	-----	0717,0725 = 0725,0748
+++-----	-----+	---+---	+-----	-----	0717,0746 = 0746,0748
+++-----	-----+	---+---	+-----	-----	0717,0732N = 0732N,0748
+++-----	-----+	---+---	---+---	-----	0717,0737 = 0737,0748
+++-----	-----+	---+---	---+---	-----	0717,0747 = 0747,0748
+++-----	-----+	---+---	---+---	-----	0717,0742 = 0742,0748
+++-----	-----+	---+---	---+---	-----	0717,0738 = 0738,0748
+++-----	-----+	---+---	---+---	-----	0717,0739 = 0739,0748
+++-----	-----+	---+---	-----	+-----	0717,0766 = 0748,0766
+++-----	-----+	---+---	-----	+-----	0717,0767 = 0748,0767
+++-----	-----+	---+---	-----	---+---	0717,0772 = 0748,0772
+++-----	-----+	---+---	-----	---+---	0717,0764 = 0748,0764
+++-----	-----+	---+---	-----	-----+--	0717,0761N = 0748,0761N
+++-----	-----+	---+---	-----	-----+--	0717,0774 = 0748,0774
+++-----	-----+	---+---	-----	-----+--	0717,0762 = 0748,0762
+++-----	-----+	---+---	-----	-----	0702,0717 = 0702,0748 =
					0717,0748 = 0748,0748
+++-----	-----+	---+---	-----	-----	0702,0754 = 0754,0754
+++-----	-----+	---+---	-----	-----	0702,0723 = 0723,0723
+++-----	-----+	---+---	-----	-----	0702,0725 = 0725,0725
+++-----	-----+	---+---	+-----	-----	0702,0746 = 0746,0746
+++-----	-----+	---+---	+-----	-----	0702,0732N = 0732N,0732N
+++-----	-----+	---+---	---+---	-----	0702,0737 = 0737,0737
+++-----	-----+	---+---	---+---	-----	0702,0747 = 0747,0747
+++-----	-----+	---+---	---+---	-----	0702,0742 = 0742,0742
+++-----	-----+	---+---	---+---	-----	0702,0738 = 0738,0738
+++-----	-----+	---+---	---+---	-----	0702,0739 = 0739,0739
+++-----	-----+	---+---	-----	+-----	0702,0766 = 0766,0766
+++-----	-----+	---+---	-----	+-----	0702,0767 = 0767,0767
+++-----	-----+	---+---	-----	---+---	0702,0772 = 0772,0772
+++-----	-----+	---+---	-----	---+---	0702,0764 = 0764,0764
+++-----	-----+	---+---	-----	-----+--	0702,0761N = 0761N,0761N
+++-----	-----+	---+---	-----	-----+--	0702,0774 = 0774,0774
+++-----	-----+	---+---	-----	-----+--	0702,0762 = 0762,0762
+++-----	-----+	---+---	-----	-----	0703,0703 = 0703,0717
+++-----	-----+	---+---	-----	-----	0711,0712 = 0711,0741
+++-----	-----+	---+---	+-----	-----	0712,0763 = 0741,0763
+++-----	-----+	---+---	+-----	-----	0704,0712 = 0704,0741
+++-----	-----+	---+---	-----	-----	0712,0712 = 0712,0741
+++-----	-----+	---+---	+-----	-----	0704,0711 = 0711,0711
+++-----	-----+	---+---	+-----	-----	0704,0763 = 0763,0763

0701 = 070101-070104 and 070106-070109
0702 = 07020101 - 070206
0704 = 070401 - 070403
0727 = 072701 - 072702
0756 = 075601 - 075602

SPECIFICITY TABLE

HLA-Cw*07 SSP subtyping

Specificities and sizes of the PCR products of the 40 primer mixes used for HLA-Cw*07 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-Cw*07 alleles ³	Other amplified HLA-Class I alleles ⁴
1⁹	245 bp, 425 bp	800 bp	*070101-0733N, 0735-0774	
2	290 bp	800 bp	*070101-070104, 070106-070109, 0705-0707, 0709, 0714, 0716, 0718, 0720-0722, 0724, 0726-0728, 0730, 0731, 0735, 0736, 0740, 0743, 0744, 0752, 0753, 0755N, 0758-0760, 0765, 0769-0771, 0773	*0517
3⁵	110 bp	800 bp	*070101-070109, 0706, 0709, 0718-0722, 0724, 0726, 0728, 0730, 0735, 0736, 0740, 0744, 0752, 0753, 0755N, 0757-0759, 0765, 0769-0771, 0773	
4	185 bp	1070 bp	*07020101-070206, 0710, 0713, 0715, 0719, 0723, 0725, 0729, 0732N, 0733N, 0737-0739, 0742, 0746-0751, 0754, 075601, 075602, 0761N, 0762, 0764, 0766-0768, 0772, 0774	B*4060
5^{5,10}	70 bp, 145 bp, 245 bp	800 bp	*0703, 0753, 0757	
6⁵	100 bp	1070 bp	*070401-070403, 0711, 0712, 0763, 0768	
7	190 bp	1070 bp	*0705	B*2736
8¹¹	285 bp, 505 bp	1070 bp	*0706, 0745	*0440
9^{6,12}	215 bp, 240 bp, 425 bp	800 bp	*0707, 0709, 0729, 0733N, 0749	*0617, 1801-1803

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10	185 bp	1070 bp	*0708	
11¹³	275 bp 305 bp	800 bp	*0710, 0724, 0743	
12⁵	130 bp	1070 bp	*0712, 0741	*05010101- 050105, 0503- 0508, 0510-0516, 0518-0522, 0524, 0525, 080101- 0806, 0808-0814, 0816-0827, A*2910
13^{5,7}	90 bp	1070 bp	*0711, 075601, 075602, 0760	*0427
14	240 bp	800 bp	*0713, 0728	*0517
15^{5,14}	80 bp, 290 bp	800 bp	*0714, 0750	
16	395 bp	800 bp	*07020101-0705, 0708, 0710-0715, 0717, 0723, 0725, 072701, 072702, 0729, 0731-0733N, 0737-0739, 0741-0743, 0745-0751, 0754, 075601, 075602, 0761N ^w , 0762-0764, 0766-0768, 0772, 0774	*0617, 1801-1803
17^{5,8}	130 bp	1070 bp	*070401-070403, 0711, 0763, 0768	*0523, 0807
18^{5,15}	120 bp, 230 bp	800 bp	*0715, 0752	*0503, B*0777, B*4060
19¹⁶	220 bp, 465 bp	800 bp	*0707, 0716, 0726, 0733N, 0751	
20¹⁷	145 bp, 170 bp	1070 bp	*0703, 0717, 0744, 0748	*0517
21^{5,7,18}	100 bp, 225 bp	800 bp	*0706, 0718, 0719, 0754	
22	250 bp	800 bp	*0720	*0315, 0332, 0345, 0360, 0403, 0406, 0416
23¹⁹	155 bp, 185 bp	1070 bp	*0721, 0723	
24⁵	130 bp	800 bp	*0722, 0725	
25^{5,20}	105 bp, 150 bp	1070 bp	*0730, 0746	B*5608^w, B*5614
26^{5,21}	100 bp, 250 bp, 300 bp	1070 bp	*0731, 0732N, 0755N	

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27 ⁵	130 bp	1070 bp	*0737, 0769	
28	260 bp	800 bp	*0735, 0747	
29	255 bp	1070 bp	*0736, 0742	
30	275 bp	1070 bp	*0738	B*0777, B*4060
31	415 bp	1070 bp	*0739, 0740	
32	245 bp	1070 bp	*0707, 0709, 0749	*0214, 06020101, 06020102, 060203, 0604- 0610, 0612-0620, 0622-0624, 1801- 1803, B*0806, B*0817
33	205 bp	1070 bp	*0766 ^W	
34 ^{5,22}	105 bp, 270 bp	1070 bp	*0767, 0770	
35 ²³	320 bp, 360 bp	800 bp	*0771, 0772	
36	265 bp	1070 bp	*0720, 0764, 0773	
37	265 bp	1070 bp	*0763, 0768	
38 ²⁴	135 bp, 405 bp	1070 bp	*0758, 0761N	
39 ^{5,25}	100 bp, 255 bp	1070 bp	*0759, 0774	
40	200 bp	1070 bp	*0762, 0765	

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-Cw*07 SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective length of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

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 two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-Cw*07 subtyping.

In addition, wells number 2, 3, 5, 9, 11, 14 to 16, 18, 19, 21, 22, 24, 28 and 35 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

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Lot-specific Information

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³For several HLA-Cw*07 alleles 1st, 5th, 6th and 7th exon nucleotide sequences are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in the 1st, 5th, 6th and 7th exons are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-Cw alleles non-HLA-Cw*07 alleles will be amplified by primer mixes 2, 8, 9, 12 to 14, 16 to 18, 20, 22 and 32. In addition, the A*2910 allele will be amplified by primer mix 12, the B*0777 allele will be amplified by primer mix 18 and 30, B*0806 and B*0817 alleles will be amplified by primer mix 32, the B*2736 allele will be amplified by primer mix 7, the B*4060 allele by primer mixes 4, 18 and 30 and the B*5608 and B*5614 alleles will be amplified by primer mix 25.

⁵Short specific PCR fragments are less intense and not as sharp as longer specific bands.

⁶Primer mix 9 has a tendency of primer oligomer formation.

⁷Primer mixes 13 and 21 have a tendency of giving rise to nonspecific amplifications.

⁸Primer mix 17 might give rise to less specific PCR products than the other Cw*07 primer mixes.

⁹Primer mix 1: Specific PCR fragment of 245 bp in the Cw*0707, 0709 and 0749 alleles. Specific PCR fragment of 425 bp in the Cw*0741 allele. PCR fragment of 245 and 425 bp in the Cw*070101-0706, 0708, 0710-0733N, 0735-0740, 0742-0748 and 0750-0774 alleles.

¹⁰Primer mix 5: Specific PCR fragment of 70 bp in the Cw*0753 allele. Specific PCR fragment of 145 bp in the Cw*0757 allele. Specific PCR fragment of 245 bp in the Cw*0703 allele.

¹¹Primer mix 8: Specific PCR fragment of 285 bp in the Cw*0745 and the Cw*0440 alleles. Specific PCR fragment of 505 bp in the Cw*0706 and 0745 alleles.

¹²Primer mix 9: Specific PCR fragment of 215 bp in the Cw*0733N allele. Specific PCR fragment of 240 bp in the Cw*0729 allele. Specific PCR fragment of 425 bp in the Cw*0707, 0709 and 0749 and the Cw*0617 and 1801-1803 alleles.

¹³Primer mix 11: Specific PCR fragment of 275 bp in the Cw*0724 allele. Specific PCR fragment of 305 bp in the Cw*0710 and 0743 alleles.

¹⁴Primer mix 15: Specific PCR fragment of 80 bp in the Cw* 0750 allele. Specific PCR fragment of 290 bp in the Cw*0714 allele.

¹⁵Primer mix 18: Specific PCR fragment of 120 bp in the Cw* 0752 and the Cw*0503 alleles. Specific PCR fragment of 230 bp in the Cw*0715 and in the B*0777 and B*4060 alleles.

¹⁶Primer mix 19: Specific PCR fragment of 220 bp in the Cw*0726 and 0733N alleles. Specific PCR fragment of 465 bp in the Cw* 0707, 0716 and 0751 alleles.

¹⁷Primer mix 20: Specific PCR fragment of 145 bp in the Cw*0703 and 0717 and Cw*0517 alleles. Specific PCR fragment of 170 bp in the Cw*0744 and 0748 alleles.

¹⁸Primer mix 21: Specific PCR fragment of 100 bp in the Cw*0754 allele. Specific PCR fragment of 225 bp in the Cw*0706, 0718 and 0719 alleles.

¹⁹Primer mix 23: Specific PCR fragment of 155 bp in the Cw*0723 allele. Specific PCR fragment of 185 bp in the Cw*0721 allele.

²⁰Primer mix 25: Specific PCR fragment of 105 bp in the Cw*0746 and B*5606^w and 5614 alleles. Specific PCR fragment of 150 bp in the Cw*0730 allele.

²¹Primer mix 26: Specific PCR fragment of 100 bp in the Cw*0732N allele. Specific PCR fragment of 250 bp in the Cw*0755N allele. Specific PCR fragment of 300 bp in the Cw*0731 allele.

²²Primer mix 34: Specific PCR fragment of 105 bp in the Cw*0767 allele. Specific PCR fragment of 270 bp in the Cw*0770 allele.

²³Primer mix 35: Specific PCR fragment of 320 bp in the Cw*0772 allele. Specific PCR fragment of 360 bp in the Cw*0771 alleles.

²⁴Primer mix 38: Specific PCR fragment of 135 bp in the Cw*0758 allele. Specific PCR fragment of 405 bp in the Cw*0761N allele.

²⁵Primer mix 39: Specific PCR fragment of 100 bp in the Cw*0774 allele. Specific PCR fragment of 255 bp in the Cw*0759 allele.

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

‘w’, may be weakly amplified.

INTERPRETATION TABLE																				
HLA-Cw*07 SSP subtyping																				
Amplification patterns of the Cw*0701 to Cw*0774 alleles																				
	Well⁵																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	395	130	120	220	145
PCR product(s)	425				145			505	240		305				290			230	465	170
					245				425											
Length of int.																				
pos. control¹	800	800	800	1070	800	1070	1070	1070	800	1070	800	1070	1070	800	800	800	1070	800	800	1070
5'-primer(s)²	47	368	270	368	47	540	363	355	47	368	355	512	289	419	369	47	512	368	47	486
	5'-Agg	5'-gTA	5'-AAC	5'-gTC	5'-Agg	5'-gAC	5'-AAT	5'-CCT	5'-Agg	5'-gTT	5'-TCA	5'-gTg	5'-Agg	5'-gTT	5'-TAC	5'-Agg	5'-gTT	5'-gTC	5'-Agg	5'-TAC
	648			368	512			992	419		385		1049		1049			521		490
	5'-CAC			5'-gTC	5'-gTT			5'-TAA	5'-gTA		5'-ggT		5'-Agg		5'-AgC			5'-TgT		5'-CgA
																				512
																				5'-gTg
3'-primer(s)³	302	618	341	512	121	601	512	601	90	512	618	601	341	618	616	270	601	559	90	618
	5'-ggC	5'-CT	5'-CgT	5'-CCA	5'-ggC	5'-CTT	5'-CCA	5'-CTC	5'-Ag	5'-CCA	5'-CT	5'-CTT	5'-ggT	5'-CT	5'-TgT	5'-TAC	5'-CTT	5'-CTC	5'-Ag	5'-CT
	853				539			1016	302				343		1087			668		97
	5'-CAT				5'-TCT			5'-CAC	5'-ggT				5'-T		5'-AgT			5'-TgA		5'-gTA
					616				618				1087							341
					5'-CgT				5'-CT				5'-AgC							5'-Cgg
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HLA-Cw allele⁴																				
*070101-070104, 070106-070109	1	2	3																	
*070105	1		3																	
*07020101-070206	1			4												16				
*0703	1				5											16				20
*070401-070403	1					6										16	17			
*0705	1	2					7									16				
*0706	1	2	3					8												
*0707	1	2							9											19
*0708	1									10						16				
*0709	1	2	3						9											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20



INTERPRETATION TABLE

HLA-Cw*07 SSP subtyping

Amplification patterns of the Cw*0701 to Cw*0774 alleles

Well ⁵																					
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
100	250	155	130	105	100	130	260	255	275	415	245	205	105	320	265	265	135	100	200	Length of spec. PCR product(s)	
225		185		150	250								270	360			405	255			
					300																Length of int. pos. control ¹
800	800	1070	800	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	5'-primer(s) ²
368	134	199	524	206	361	193	390	122	368	47	97	688	388	47	47	368	47	125	47		
5'-gTC	5'-CCA	5'-gTT	5'-CCA	5'-AgA	5'-AgT	5'-CCA	5'-gAA	5'-CCA	5'-gTC	5'-Agg	5'-TCg	5'-CCA	5'-CCA	5'-Agg	5'-Agg	5'-gTC	5'-Agg	5'-CgT	5'-Agg		
621		504	538	419	411	539	410	410					554			388	524	794	464		
5'-gTC		5'-CAC	5'-AgT	5'-gTC	5'-TAG	5'-gCg	5'-gTg	5'-gTT					5'-ggT			5'-CCT	5'-CCC	5'-CTC	5'-gCT		
					560																
					5'-CAC																3'-primer(s) ³
427	341	341	618	270	618	289	618	341	603	289	302	853	618	197	142	601	280	341	79		
5'-gTg	5'-CgT	5'-CgT	5'-CT	5'-TAC	5'-CT	5'-AgC	5'-CT	5'-CgT	5'-TTg	5'-AgT	5'-ggT	5'-CAT	5'-CT	5'-gAT	5'-TgC	5'-CIT	5'-CTA	5'-CgT	5'-gTA		
1043		618		527		618		618						235			618	853	618		
5'-CAA		5'-CT		5'-CCC		5'-CT		5'-CT						5'-CTg			5'-CT	5'-CAT	5'-CT		
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.	
																					HLA-Cw allele ⁴
																					*070101-070104, 070106-070109
																					*070105
																					*07020101-070206
																					*0703
																					*070401-070403
																					*0705
21																					*0706
											32										*0707
																					*0708
											32										*0709
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.	



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Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	395	130	120	220	145
PCR product(s)	425				145			505	240		305				290			230	465	170
					245				425											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
*0710	1			4							11					16				
*0711	1					6							13			16	17			
*0712	1					6						12				16				
*0713	1			4										14		16				
*0714	1	2													15	16				
*0715	1			4												16		18		
*0716	1	2																	19	
*0717	1															16				20
*0718	1	2	3																	
*0719	1		3	4																
*0720	1	2	3																	
*0721	1	2	3																	
*0722	1	2	3																	
*0723	1			4												16				
*0724	1	2	3								11									
*0725	1			4												16				
*0726	1	2	3																19	
*072701, 072702	1	2														16				
*0728	1	2	3											14						
*0729	1			4					9							16				
*0730	1	2	3																	
*0731	1	2														16				
*0732N	1			4												16				
*0733N	1			4					9							16			19	
*0735	1	2	3																	
*0736	1	2	3																	
*0737	1			4												16				
*0738	1			4												16				
*0739	1			4												16				
*0740	1	2	3																	
*0741	1											12				16				
*0742	1			4												16				
*0743	1	2									11					16				
*0744	1	2	3																	20
*0745	1							8								16				
*0746	1			4												16				
*0747	1			4												16				
*0748	1			4												16				20
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Lot No.: **49G**

Lot-specific Information

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100	250	155	130	105	100	130	260	255	275	415	245	205	105	320	265	265	135	100	200	Length of spec. PCR product(s)
225		185		150	250								270	360			405	255		
				300																
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
																				*0710
																				*0711
																				*0712
																				*0713
																				*0714
																				*0715
																				*0716
																				*0717
21																				*0718
21																				*0719
	22														36					*0720
		23																		*0721
			24																	*0722
		23																		*0723
																				*0724
			24																	*0725
																				*0726
																				*072701, 072702
																				*0728
																				*0729
				25																*0730
					26															*0731
					26															*0732N
																				*0733N
							28													*0735
								29												*0736
						27														*0737
									30											*0738
										31										*0739
										31										*0740
																				*0741
								29												*0742
																				*0743
																				*0744
																				*0745
				25																*0746
							28													*0747
																				*0748
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.

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Lot-specific Information

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Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	395	130	120	220	145
PCR product(s)	425				145			505	240		305				290			230	465	170
					245				425											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
*0749	1			4					9							16				
*0750	1			4											15	16				
*0751	1			4												16			19	
*0752	1	2	3															18		
*0753	1	2	3		5															
*0754	1			4												16				
*0755N	1	2	3																	
*075601, 075602	1			4									13			16				
*0757	1		3		5															
*0758	1	2	3																	
*0759	1	2	3																	
*0760	1	2											13							
*0761N	1			4												w				
*0762	1			4												16				
*0763	1					6										16	17			
*0764	1			4												16				
*0765	1	2	3																	
*0766	1			4												16				
*0767	1			4												16				
*0768	1			4		6										16	17			
*0769	1	2	3																	
*0770	1	2	3																	
*0771	1	2	3																	
*0772	1			4												16				
*0773	1	2	3																	
*0774	1			4												16				
*0214, 06020101, 06020102, 060203, 0604-0610, 0612- 0616N, 0618-0620, 0622-0624, B*0806, B*0817																				
*0315, 0332, 0345, 0360, 0403, 0406, 0416																				
*0427													13							
*0440								8												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Lot No.: **49G**

Lot-specific Information

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100	250	155	130	105	100	130	260	255	275	415	245	205	105	320	265	265	135	100	200	Length of spec.
225		185		150	250								270	360			405	255		PCR product(s)
				300																
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
											32									*0749
																				*0750
																				*0751
																				*0752
																				*0753
21																				*0754
					26															*0755N
																				*075601, 075602
																				*0757
																	38			*0758
																		39		*0759
																				*0760
																	38			*0761N
																			40	*0762
																				*0763
																	37			*0764
																				*0765
																				*0766
												w								*0767
													34							*0768
																	37			*0769
						27														*0770
													34							*0771
																				*0772
																				*0773
																				*0774
																				*0214, 06020101, 06020102, 060203, 0604-0610, 0612- 0616N, 0618-0620, 0622-0624, B*0806, B*0817
																				*0315, 0332, 0345, 0360, 0403, 0406, 0416
																				*0427
																				*0440
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.

Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	395	130	120	220	145
PCR product(s)	425				145			505	240		305				290			230	465	170
					245				425											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
*05010101-050105, 0504-0508, 0510-0516, 0518-0522, 0524, 0525, 080101-0806, 0808-0814, 0816-0827, A*2910												12								
*0503												12						18		
*0517		2												14						20
*0523, 0807																	17			
*0617, 1801-1803									9							16				
B*0777																		18		
B*2736							7													
B*4060				4														18		
B*5608																				
B*5614																				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells. Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-Cw*07 subtyping. In addition, wells number 2, 3, 5, 9, 11, 14 to 16, 18, 19, 21, 22, 24, 28 and 35 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

²The nucleotide position, in the 1st, 2nd, 3rd or 7th exon or the 3rd or 6th intron, 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, in the 2nd, 3rd, 4th or 7th exon, 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.

⁴The HLA-Cw*0734 allele has been renamed to HLA-Cw*072702.

⁵Primer mix 1: Specific PCR fragment of 245 bp in the Cw*0707, 0709 and 0749 alleles. Specific PCR fragment of 425 bp in the Cw*0741 allele. PCR fragment of 245 and 425 bp in the Cw*070101-0706, 0708, 0710-0733N, 0735-0740, 0742-0748 and 0750-0774 alleles.

Primer mix 5: Specific PCR fragment of 70 bp in the Cw*0753 allele. Specific PCR fragment of 145 bp in the Cw*0757 allele. Specific PCR fragment of 245 bp in the Cw*0703 allele.

Primer mix 8: Specific PCR fragment of 285 bp in the Cw*0745 and the Cw*0440 alleles. Specific PCR fragment of 505 bp in the Cw*0706 and 0745 alleles.

Primer mix 9: Specific PCR fragment of 215 bp in the Cw*0733N allele. Specific PCR fragment of 240 bp in the Cw*0729 allele. Specific PCR fragment of 425 bp in the Cw*0707, 0709 and 0749 and the Cw*0617 and 1801-1803 alleles.

Primer mix 11: Specific PCR fragment of 275 bp in the Cw*0724 allele. Specific PCR fragment of 305 bp in the Cw*0710 and 0743 alleles.

Lot No.: **49G**

Lot-specific Information

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100	250	155	130	105	100	130	260	255	275	415	245	205	105	320	265	265	135	100	200	Length of spec. PCR product(s)
225		185		150	250								270	360			405	255		
					300															
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.
																				*05010101-050105, 0504-0508, 0510-0516, 0518-0522, 0524, 0525, 080101-0806, 0808-0814, 0816-0827, A*2910
																				*0503
																				*0517
																				*0523, 0807
											32									*0617, 1801-1803
									30											B*0777
																				B*2736
									30											B*4060
				w																B*5608
				25																B*5614
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Well No.

Primer mix 15: Specific PCR fragment of 80 bp in the Cw* 0750 allele. Specific PCR fragment of 290 bp in the Cw*0714 allele.

Primer mix 18: Specific PCR fragment of 120 bp in the Cw* 0752 and the Cw*0503 alleles. Specific PCR fragment of 230 bp in the Cw*0715 and in the B*0777 and B*4060 alleles.

Primer mix 19: Specific PCR fragment of 220 bp in the Cw*0726 and 0733N alleles. Specific PCR fragment of 465 bp in the Cw* 0707, 0716 and 0751 alleles.

Primer mix 20: Specific PCR fragment of 145 bp in the Cw*0703 and 0717 and Cw*0517 alleles. Specific PCR fragment of 170 bp in the Cw*0744 and 0748 alleles.

Primer mix 21: Specific PCR fragment of 100 bp in the Cw*0754 allele. Specific PCR fragment of 225 bp in the Cw*0706, 0718 and 0719 alleles.

Primer mix 23: Specific PCR fragment of 155 bp in the Cw*0723 allele. Specific PCR fragment of 185 bp in the Cw*0721 allele.

Primer mix 25: Specific PCR fragment of 105 bp in the Cw*0746 and B*5606^w and 5614 alleles. Specific PCR fragment of 150 bp in the Cw*0730 allele.

Primer mix 26: Specific PCR fragment of 100 bp in the Cw*0732N allele. Specific PCR fragment of 250 bp in the Cw*0755N allele. Specific PCR fragment of 300 bp in the Cw*0731 allele.

Primer mix 34: Specific PCR fragment of 105 bp in the Cw*0767 allele. Specific PCR fragment of 270 bp in the Cw*0770 allele.

Primer mix 35: Specific PCR fragment of 320 bp in the Cw*0772 allele. Specific PCR fragment of 360 bp in the Cw*0771 alleles.

Primer mix 38: Specific PCR fragment of 135 bp in the Cw*0758 allele. Specific PCR fragment of 405 bp in the Cw*0761N allele.

Primer mix 39: Specific PCR fragment of 100 bp in the Cw*0774 allele. Specific PCR fragment of 255 bp in the Cw*0759 allele.

'w', may be weakly amplified.

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

CELL LINE VALIDATION SHEET																				
HLA-Cw*07 SSP subtyping kit																				
				Prod. No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					200965701	200735102	200965703	200620204	200965705	200965706	200620207	200735108	200965709	200620210	200620211	200965712	200965713	200965714	200965715	200620216
	IHWC cell line		Cw*																	
1	9001 SA		*0702		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
2	9280 LK707		*0701	*1505	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*1202		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*0304	*0401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*0602		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM		*0304	*0702	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
7	9020 QBL		*0501		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
8	9025 DEU		*0401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR		*1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3		*0102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*1601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*0602		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM		*0102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*0102	*0304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*0304		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*0202		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540		*0303	*0701	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367		*0102	*0705	+	+	-	-	-	-	+	-	-	-	-	-	-	-	-	+
19	9038 BM16		*0701		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*0304		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA		*0303		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*0102	*1502	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH		*1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9		*0802		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
26	9285 WT49		*0701		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*0704	*1505	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
28	9320 BEL5GB		*0501	*1601	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
29	9050 MOU		*1601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*1701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF		*0501		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
32	9297 HAG		*1701	*1703	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B		*0304		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF		*1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO		*0501		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
36	9024 KT17		*0303	*0401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*0702		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
38	9099 LZL		*0303		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*0202	*0701	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199		*0602		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301		*0802		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
42	9066 TAB089		*0102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*0102	*0801	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
44	9057 TEM		*1203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO		*0602	*1701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU		*0702		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
47	9045 TUBO		*0704	*1502	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
48	9303 TER-ND		*0401	*1601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																					
HLA-Cw*07 SSP subtyping kit																					
				Prod. No.:	Well																
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
	IHWC cell line	Cw*			200965717	200965718	200620219	200735120	200850821	200735122	200735123	200965724	200735125	200965726	200965727	200965728	200735129	200620230	200965731	200735132	
1	9001 SA	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*0701	*1505		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*1202			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*0304	*0401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*0602			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
6	9353 SM	*0304	*0702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*0501			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*0401			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
9	9026 YAR	*1203			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*0102			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*1601			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*0602			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
13	9004 JESTHOM	*0102			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*0102	*0304		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*0304			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*0202			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*0303	*0701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*0102	*0705		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*0701			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*0304			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*0303			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*1203			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*0102	*1502		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*1203			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*0802			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*0701			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*0704	*1505		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*0501	*1601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*1601			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*1701			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*0501			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*1701	*1703		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*0304			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*1203			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*0501			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*0303	*0401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*0303			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*0202	*0701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*0602			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
41	9055 H0301	*0802			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*0102			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*0102	*0801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*1203			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*0602	*1701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*0702			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*0704	*1502		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*0401	*1601		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lot No.: **49G**

Lot-specific Information

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CELL LINE VALIDATION SHEET					Well							
HLA-Cw*07 SSP subtyping kit					33	34	35	36	37	38	39	40
				Prod. No.:	200965733	200965734	200965735	200965736	200965737	200965738	200965739	200965740
	IHWC cell line		Cw*									
1	9001 SA		*0702		-	-	-	-	-	-	-	-
2	9280 LK707		*0701	*1505	-	-	-	-	-	-	-	-
3	9011 E4181324		*1202		-	-	-	-	-	-	-	-
4	9275 GU373		*0304	*0401	-	-	-	-	-	-	-	-
5	9009 KAS011		*0602		-	-	-	-	-	-	-	-
6	9353 SM		*0304	*0702	-	-	-	-	-	-	-	-
7	9020 QBL		*0501		-	-	-	-	-	-	-	-
8	9025 DEU		*0401		-	-	-	-	-	-	-	-
9	9026 YAR		*1203		-	-	-	-	-	-	-	-
10	9107 LKT3		*0102		-	-	-	-	-	-	-	-
11	9051 PITOUT		*1601		-	-	-	-	-	-	-	-
12	9052 DBB		*0602		-	-	-	-	-	-	-	-
13	9004 JESTHOM		*0102		-	-	-	-	-	-	-	-
14	9071 OLGA		*0102	*0304	-	-	-	-	-	-	-	-
15	9075 DKB		*0304		-	-	-	-	-	-	-	-
16	9037 SWEIG007		*0202		-	-	-	-	-	-	-	-
17	9282 CTM3953540		*0303	*0701	-	-	-	-	-	-	-	-
18	9257 32367		*0102	*0705	-	-	-	-	-	-	-	-
19	9038 BM16		*0701		-	-	-	-	-	-	-	-
20	9059 SLE005		*0304		-	-	-	-	-	-	-	-
21	9064 AMALA		*0303		-	-	-	-	-	-	-	-
22	9056 KOSE		*1203		-	-	-	-	-	-	-	-
23	9124 IHL		*0102	*1502	-	-	-	-	-	-	-	-
24	9035 JBUSH		*1203		-	-	-	-	-	-	-	-
25	9049 IBW9		*0802		-	-	-	-	-	-	-	-
26	9285 WT49		*0701		-	-	-	-	-	-	-	-
27	9191 CH1007		*0704	*1505	-	-	-	-	-	-	-	-
28	9320 BEL5GB		*0501	*1601	-	-	-	-	-	-	-	-
29	9050 MOU		*1601		-	-	-	-	-	-	-	-
30	9021 RSH		*1701		-	-	-	-	-	-	-	-
31	9019 DUCAF		*0501		-	-	-	-	-	-	-	-
32	9297 HAG		*1701	*1703	-	-	-	-	-	-	-	-
33	9098 MT14B		*0304		-	-	-	-	-	-	-	-
34	9104 DHIF		*1203		-	-	-	-	-	-	-	-
35	9302 SSTO		*0501		-	-	-	-	-	-	-	-
36	9024 KT17		*0303	*0401	-	-	-	-	-	-	-	-
37	9065 HHKB		*0702		-	-	-	-	-	-	-	-
38	9099 LZL		*0303		-	-	-	-	-	-	-	-
39	9315 CML		*0202	*0701	-	-	-	-	-	-	-	-
40	9134 WHONP199		*0602		-	-	-	-	-	-	-	-
41	9055 H0301		*0802		-	-	-	-	-	-	-	-
42	9066 TAB089		*0102		-	-	-	-	-	-	-	-
43	9076 T7526		*0102	*0801	-	-	-	-	-	-	-	-
44	9057 TEM		*1203		-	-	-	-	-	-	-	-
45	9239 SHJO		*0602	*1701	-	-	-	-	-	-	-	-
46	9013 SCHU		*0702		-	-	-	-	-	-	-	-
47	9045 TUBO		*0704	*1502	-	-	-	-	-	-	-	-
48	9303 TER-ND		*0401	*1601	-	-	-	-	-	-	-	-

CERTIFICATE OF ANALYSIS**Olerup SSP® HLA-Cw*07 SSP****Product number: 101.615-24u/04u – without *Taq* pol.****Lot number: 49G****Expiry date: 2011-November-01****Number of tests: 24 tests – Product No. 101.615-24u****4 tests – Product No. 101.615-04u****Number of wells per test: 40****Well specifications:**

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-657-01	17	2009-657-17	33	2009-657-33
2	2007-351-02	18	2009-657-18	34	2009-657-34
3	2009-657-03	19	2006-202-19	35	2009-657-35
4	2006-202-04	20	2007-351-20	36	2009-657-36
5	2009-657-05	21	2008-508-21	37	2009-657-37
6	2009-657-06	22	2007-351-22	38	2009-657-38
7	2006-202-07	23	2007-351-23	39	2009-657-39
8	2007-351-08	24	2009-657-24	40	2009-657-40
9	2009-657-09	25	2007-351-25		
10	2006-202-10	26	2009-657-26		
11	2006-202-11	27	2009-657-27		
12	2009-657-12	28	2009-657-28		
13	2009-657-13	29	2007-351-29		
14	2009-657-14	30	2006-202-30		
15	2009-657-15	31	2009-657-31		
16	2006-202-16	32	2007-351-32		

The specificity of each primer solution of the kit has been tested against 48 well characterized cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 5, 10, 11, 13 to 15, 18 to 20, 23 to 31 and 33 to 40 were available. The specificities of the primers in primer solutions 5, 9 to 11, 13 to 15, 18 to 20, 24 to 27, 30, 31, 36 to 38 and 40 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solution 35 it was only possible to test the 5'-primer, the 3'-primer were not possible to test. In primer solutions 23, 28, 29, 33, 34 and 39 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 8, 11, 20, 24, 26, 37, 38 and 40 one or two 5'-primers were not possible to test, and in primer solutions 5, 9, 13, 15, 18, 19, 21, 25, 38 and 40 one or two 3'-primers were not possible to test. Additional primers in primer solutions 2, 9 and 21 were tested by separately adding either one 5'-primer or one 3'-primer.

Lot No.: **49G**

Lot-specific Information

www.olerup-ssp.com

Results: No false positive or false negative amplifications were obtained.

Date of approval: 2010-November-09

Approved by:

Quality Control, Supervisor

Lot No.: **49G**

Lot-specific Information

www.olerup-ssp.com

Declaration of Conformity

Product name: *Olerup* SSP® HLA-Cw*07
Product number: 101.615-24u/04u
Lot number: 49G

Intended use: HLA-Cw*07 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
Hasselstigen 1
SE-133 33 Saltsjöbaden, Sweden
Phone: +46-8-717 88 27
Fax: +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex III, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

The Authorized Representative located within the Community is: *Olerup* SSP AB.

Saltsjöbaden, Sweden
2010-November-09

Olle Olerup
Managing Director

Lot No.: **49G**

Lot-specific Information

www.olerup-ssp.com

ADDRESSES:

Manufacturer:

Olerup SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

Tel: +46-8-717 88 27

Fax: +46-8-717 88 18

E-mail: info-ssp@olerup.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: support-at@olerup.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: info.us@olerup.com

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

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