



Notes

- 1 The QC summary of each primer mix is located in the shaded area. This information reflects the data available upon the initial release. For the QC information on a specific dotting please contact One Lambda, Inc.
- 2 The allele nomenclature includes the HLA alleles listed in the January 2012 update of the IMGT/HLA database release 3.7.0 (Robinson J, et al., "IMGT/HLA and IMGT/MHC: sequence databases for the study of the major histocompatibility complex" Nucleic Acids Research (2003), 31, 311-314). Complete update information is located at www.ebi.ac.uk/imgt/hla/.
- 3 Revision summary: January 2012 nomenclature update based on IMGT/HLA database version 3.7.0.
- 4 (6B) B*40:01:07 may be positive.
- 5 (7B) Bw6 (w/o B*07:13, B*07:97, B*07:110, B*08:29, B*08:36, B*14:02:05, B*35:02:03, B*35:152, B*35:175, B*39:24:02, B*40:76, B*40:127, B*40:135, B*41:05, B*48:20, B*54:01:01, B*54:01:02, B*54:02, B*54:03, B*54:04, B*54:06, B*54:07, B*54:09, B*54:10, B*54:11, B*54:13, B*54:14, B*54:15, B*54:16, B*54:17, B*54:18, B*54:19, B*54:20, B*54:21, B*54:22, B*54:23, B*54:24, B*67:02); B*07:02:01~12/14~26/28~35/37/39~80/82~96:02/98~109/111N~144; B*08:01:01~01:16/04~28/30N~35/37~51/53~66/68~77/79~80; B*13:09/39; B*14:01:01~02:04/02:06~28; B*15:01:01~12/14~15/18:01~21/25:01~35/37~42/44~66/68~86/88/90~94N/96~114/116~156/158~161/163~167/169~176/178~195/197~207/209N~215/217~221/223~229/231~238; B*18:01:01~08/10~53/55~66/68; B*27:08/12/18/26/33/40/42/44; B*35:01:01:01~02:02/02:04~151/153~172/174/176~186; B*37:05/11; B*39:01:01:01~24:01/25N~68; B*40:01:01~12/14:01~18/20~46/48~75/77~95/97~108/111~116/118N~126/128~134/136~156/158~180; B*41:01~04/06~19; B*42:01:01~16; B*44:09/46/75/90/129/131; B*45:01~13; B*46:01:01~30; B*47:02; B*48:01:01~17/19/21~27; B*50:01:01~15; B*55:01:01~54; B*56:01:01~06/08~20:02/22~32; B*57:12; B*67:01:01~01:02/03; B*73:01~02; B*78:01:01~07; B*81:01~05; B*82:01~03; B*83:01
- 6 (7C) Bw4 (w/o B*13:28, B*27:49, B*37:24, B*44:111, B*44:127, B*51:01:14, B*51:67, B*51:100, B*52:04, B*53:10, B*57:01:08, B*57:08, B*57:34); B*07:27/36/38/81; B*08:02~03/52/78; B*13:01:01~08Q/10~27/29~38/40~52; B*15:13:01~13:02/16:01~17:02/23~24/36/43/67/87/89/95/115/157/162/168/177/196/208/216/222/230; B*18:09/54/67; B*27:01~07:02/09~11/13~17/19~25/27~32/34~39/41/43/45~48/50~86; B*37:01:01~04:02/06~10/12~23/25~31; B*38:01:01~37; B*40:13/19/47/96/109~110/117/157; B*44:02:01:01~08/10~45/47~74/76~89/91~110/112~126/128/130/132~139; B*47:01:01:01~01:02/03~08; B*48:18; B*49:01:01~20; B*51:01:01~01:13/01:15~66/68~99/101~109/111~126; B*52:01:01~03/05~27; B*53:01:01~09/11~27; B*54:12; B*56:07/21; B*57:01:01~01:07/01:09~07/09~11/13~33/35~52; B*58:01:01~36; B*59:01:01~01~05
- 7 (8D) C*04:01:12 may be positive.
- 8 The Prev. Lot column lists the location of primers that existed on a previous lot of the product. Revision changes to primer specificity are noted in the Specificity Changes column.

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New
							TP	FN	FP	TN		
1	H A*01:01:01:01~01:11/01:13~09/11N/13~18N/20/22N~25/27N~29/31N~71/73~78/80~98/100~101/103~104; A*03:18	114-114	[150-150 + 165---167]	200	1H	96	13	0	0	83	1	Changes: A*01:34N=A*01:01:38L New: A*01:01:35, A*01:01:36, A*01:01:37, A*01:01:39, A*01:01:40, A*01:01:41, A*01:01:42, A*01:01:43, A*01:86, A*01:87N, A*01:88, A*01:89, A*01:90, A*01:91, A*01:92, A*01:93, A*01:94, A*01:95, A*01:96, A*01:97, A*01:98, A*01:100, A*01:101, A*01:103, A*01:104

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot#006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
1	G	A*02:01:01:01~01:08/01:10~01:30/01:32/01:34~01:39/01:41~05:04/06:01~06:06/06:08~07:02/09~11:01/11:03~19/21~35:02/36~41/43N~49/51~54/57~61/63~76:01/77/79:01~102/104~121/123~127/129~140/142~168/170~194/196~271/273~309/311~336; A*03:89; A*24:02:06; A*30:07:22	24-24	66(K/Q)V67	150								Changes: A*02:01:14=A*02:01:14Q, A*02:07=A*02:07:01, A*02:76=A*02:76:01, A*02:211=A*02:211:01, A*02:217=A*02:217:01 New: A*02:01:56, A*02:01:57, A*02:01:58, A*02:01:59, A*02:01:60, A*02:01:61, A*02:01:62, A*02:01:63, A*02:01:64, A*02:07:02, A*02:211:02, A*02:217:02, A*02:302, A*02:303, A*02:304, A*02:305N, A*02:306, A*02:307, A*02:308, A*02:309, A*02:310, A*02:311, A*02:312, A*02:313, A*02:314N, A*02:315, A*02:316, A*02:317, A*02:318, A*02:319, A*02:320, A*02:321N, A*02:322, A*02:323, A*02:324, A*02:325, A*02:326, A*02:327, A*02:328, A*02:329, A*02:330, A*02:331, A*02:332, A*02:333, A*02:334, A*02:335, A*02:336
		A*02:01:01:01~01:02/01:04~01:08/01:10~01:32/01:34~01:39/01:41~05:04/06:01~06:06/06:08~10/12~34/36~41/43N~47/49/51~68/70~76:01/77/79:01~80/82N~86/88N~89/91~111/113N~115/117~121/123/125N~127/130~135/137~140/142~145/147~183/185~246/248~260/262~296/299~307/309/311~330/332~336; A*03:89; A*30:13/16/44/46	24-24	74H-75	175	1G	96	35	0	0	61	1	
		A*02:50	9---M12	66KV67	200								
		A*02:01:01:01~01:01:03/01:03~01:30/01:32~06:04/06:06~06:08/06:10~07:02/09~19/21~49/51~54/57~61/63~76:01/77/79:01~102/104~121/123~127/129~168/170~194/196~271/273~336; A*03:89	2-(-/Q)3	66(K/Q)V67	225								
		A*02:50	9---M12	74H-V76	225								
		A*02:01:01:01~01:01:03/01:04~06:04/06:06~06:08/06:10~10/12~34/36~47/49/51~68/70~76:01/77/79:01~80/82N~86/88N~89/91~111/113N~115/117~121/123/125N~127/130~135/137~145/147~183/185~246/248~260/262~296/299~307/309~330/332~336; A*03:89	2-(-/Q)3	74H-75	250								
F	A*01:13/17; A*02:56:01~56:02/103; A*03:01:01:01~01:03/01:05~07/09~11N/13~22:02/25~28/30~31/33/35/37~40/42~58/60~69N/71/73~87/90~106/109~135; A*30:55; A*32:17; A*74:13	7---9	[62--63 + 69-Q70]	200	1F	96	9	0	0	87	1	Changes: A*03:02=A*03:02:01, A*03:22=A*03:22:01 New: A*03:01:24, A*03:01:25, A*03:01:26, A*03:01:27, A*03:01:28, A*03:01:29, A*03:01:30, A*03:01:31, A*03:02:02, A*03:02:03, A*03:22:02, A*03:118, A*03:119, A*03:120, A*03:121, A*03:122, A*03:123, A*03:124, A*03:125, A*03:126, A*03:127, A*03:128, A*03:129N, A*03:130, A*03:131, A*03:132, A*03:133, A*03:135, A*30:55	

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
1	E	A*23:01:01~23/25~33/35~50; A*24:24/71; A*29:07; A*31:29; B*18:27	97M-F99	151RV152	200	1E	96	7	0	0	89	1	New: A*23:01:06, A*23:01:07, A*23:37, A*23:38N, A*23:39, A*23:40, A*23:41, A*23:42, A*23:43, A*23:44, A*23:45, A*23:46, A*23:47, A*23:48, A*23:49, A*23:50
	D	A*03:75; A*23:14; A*24:02:01:01~04/06~13:02/15~23/25~50/53~56/58~63/66~80/82~91/95~104/106~119/121~129/131~137/139~167/169~187/189~190; A*33:19; A*36:03	95L-M97	144--145	175	1D	96	23	0	0	73	1	Changes: A*24:02:03=A*24:02:03Q New: A*24:02:45, A*24:02:46, A*24:02:47, A*24:02:48, A*24:02:49, A*24:02:50, A*24:02:51, A*24:172, A*24:173, A*24:174, A*24:175, A*24:176, A*24:177, A*24:178, A*24:179, A*24:180, A*24:181, A*24:182, A*24:183N, A*24:184, A*24:185N, A*24:186, A*24:187, A*24:189, A*24:190, A*33:53
		A*24:82; A*31:08; A*33:21/53	9T9	62E62	200								
		A*24:02:01:01~02:15/02:17~05/07~11N/15~17/19~21:02/23/25~50/53~56/58~63/66~80/82~86N/88~90N/95~104/106/108~119/121~132N/134~137/139~166/168~187/189~190; A*33:19	95L-M97	156Q156	225								
	C	A*02:55; A*26:03:01~03:02/06/21/30; A*33:24; A*68:05/15/20	63N63	74H74	75	1C	96	5	0	0	91	1	New: A*26:01:22, A*26:66, A*26:67, A*26:68, A*26:69, A*26:70, A*26:71N, A*33:48, A*68:84
		A*01:51; A*26:01:01~02/04~05/08~18/20/22~29/32~71N; A*33:13/48; A*68:46/84	63N63	77---79	100								
B	A*02:135; A*25:01:01~05/07~16; A*26:01:01~01:20/01:22~08/10~28/30~33/35~39/41~72; A*31:24; A*43:01; A*66:01/04~15	114Q114	163-163 / 163L163	175	1B	96	16	0	0	80	1	New: A*25:01:05, A*26:01:22, A*26:66, A*26:67, A*26:68, A*26:69, A*26:70, A*26:71N, A*26:72	
A	A*01:13/28; A*03:63/88; A*11:01:01~02:01/02:03~05/07~11/13~16/19~39/41~44/46~110/112; A*24:19/44; A*31:03; A*34:01:01~08; A*66:01/04~10/13~15; A*80:02	74--VD77	90-90	100	1A	96	15	0	0	81	1	Changes: A*11:53=A*11:02:01 New: A*11:01:29, A*11:01:30, A*11:01:31, A*11:01:32, A*11:01:33, A*11:01:34, A*11:01:35, A*11:94, A*11:95, A*11:96, A*11:97, A*11:98, A*11:99N, A*11:100, A*11:101, A*11:102, A*11:103, A*11:104, A*11:105, A*11:106, A*11:107, A*11:108, A*11:109N, A*11:110, A*11:112	
2	H	A*30:01:01~11:02/13~17/19~30/32~40/42~54/56~58	17S17	67V67	175	2H	96	9	0	0	87	1	New: A*30:01:05, A*30:52, A*30:53, A*30:54, A*30:56, A*30:57, A*30:58
	G	A*11:43; A*29:14/18; A*31:01:02~07/09~20/22~59	9T9	62---65	200	2G	96	7	0	0	89	1	New: A*31:50, A*31:51, A*31:52, A*31:53, A*31:54, A*31:55, A*31:56, A*31:58, A*31:59
	F	A*01:95; A*23:09/28; A*24:77; A*31:07/10; A*32:01:01~14/16~37; B*15:95	62-62	80I80	100	2F	96	9	0	0	87	1	New: A*01:95, A*32:01:09, A*32:01:10, A*32:01:11, A*32:32, A*32:33, A*32:34, A*32:35, A*32:36, A*32:37
	E	A*33:01:01~07/10~20/22~50/52/54; A*68:29	9T9	63N--66	200	-	96	11	0	0	85	1	Changes: A*33:03:03=A*33:03:03Q New: A*33:03:09, A*33:43, A*33:44, A*33:45, A*33:46, A*33:47, A*33:48, A*33:49, A*33:50, A*33:52, A*33:54
		A*02:243; A*33:01:02/08~09	9T9	56---58	175								
	D	A*02:50/73/122/156/245/334; A*11:57; A*68:01:01:01~11N/13~47/49N/51~82/84~85	95-95	142T--H145	175	2D	96	7	0	0	89	1	New: A*02:334, A*68:73, A*68:74, A*68:75, A*68:76, A*68:77, A*68:78, A*68:79, A*68:80, A*68:81, A*68:82, A*68:83, A*68:84, A*68:85
A*68:01:02:01:06/03:01~03:02/05~07/08:02~09/11N~12/16~17/19~21:01/23~24/30/32~33/36~38/41/46~47/52/57/65~66/69~70/73/75~76/83~85		9Y-10	66-V67	200									

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot#006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
2	C	A*02:243; A*11:43; A*29:01:01:01~19/21~29/31~32; A*33:24; A*68:29	9T9	70Q---73 / 74H-V76	225	2C	96	8	0	0	88	1	New: A*29:02:09, A*29:28, A*29:29, A*29:31, A*29:32
	B	B*07:27/38; B*08:02~03/52/78; B*13:36; B*15:13:01~13:02/89; B*18:09/54/67; B*27:23; B*37:08; B*38:06~07; B*44:06/12; B*51:01:01~01:10/01:12~01:16/01:18~21/23~43/45~117/119~126; B*53:01:01~16/18~27; B*59:01:01:01~05	63N-QIF67 / 63N-QIS67	82LR83 / 84D84	100	2B	96	14	0	0	82	1	Changes: B*15:13=B*15:13:01 New: B*08:78, B*15:13:02, B*18:67, B*51:01:26, B*51:01:27, B*51:01:28, B*51:01:29, B*51:01:30, B*51:110N, B*51:111, B*51:112, B*51:113, B*51:114, B*51:115, B*51:116, B*51:117, B*51:119, B*51:120, B*51:121, B*51:122, B*51:123, B*51:124, B*51:125, B*51:126, B*53:25, B*53:26, B*53:27
	A	B*08:09; B*13:46; B*15:42/83; B*35:60; B*39:06:01~06:02/34/62/64; B*42:04; B*46:18; B*51:21/36/101; B*54:01:01~02/04~05N/07~08N/10~24; B*55:01:01~03/05~07/10/12~13/15~21/23/25~48/50/52~54; B*56:23; B*59:01:01:01~03/05; B*78:07	95W-T97	163T163	225	2A	96	19	0	0	77	1	Changes: B*52:10=B*52:10:01, B*58:08=B*58:08:01, B*78:01=B*78:01:01 New: B*39:64, B*40:06:04, B*40:165, B*40:167, B*40:177, B*51:01:26, B*51:01:27, B*51:01:28, B*51:01:29, B*51:01:30, B*51:110N, B*51:111, B*51:112, B*51:113, B*51:114, B*51:115, B*51:116, B*51:117, B*51:118N, B*51:119, B*51:120, B*51:121, B*51:122, B*51:123, B*51:124, B*51:125, B*51:126, B*52:01:10, B*52:10:02, B*52:24, B*52:27, B*55:01:08, B*55:50, B*55:52, B*55:53, B*55:54, B*58:08:02, B*78:01:02
		B*07:84; B*08:09; B*13:35; B*15:83; B*40:06:01:01~06:04/44/53/70/75/83/93/95~96/103/109~110/127/131/148/161~162/165/167/177; B*42:04; B*51:01:01~03/05/07:01~12/14/16~34/36/38~41N/43~44N/48~55/57~58/60~61/65~80/82~84/86~91/93~96/98N~105/107~126; B*52:01:01:01~13/15~24/27; B*54:04/11/15; B*55:17/20/27~28; B*56:05:01~06/15/21; B*58:08:01~08:02; B*59:02; B*78:01:01~07	95W-T97	116Y116	100								
3	H	B*15:16:01~17:02/24/67/87/157/162/168/177/196/208/216/222/230; B*27:02:01~02:02/30/53/57/62/65N/75/77/83; B*38:25; B*40:13/19/109/117; B*44:18/25/50/95; B*48:18; B*49:01:01~01:03/03~20; B*52:01:01:01~19/21~27; B*53:17:01~17:02	62R-63	80I80	75	3H	96	12	0	0	84	1	Changes: B*15:16=B*15:16:01, B*27:02=B*27:02:01, B*52:10=B*52:10:01 New: B*15:16:02, B*15:16:03, B*15:222, B*15:230, B*27:02:02, B*27:83, B*49:17, B*49:18, B*49:19N, B*49:20, B*52:01:10, B*52:10:02, B*52:24, B*52:25, B*52:26, B*52:27
	G	B*07:02:01~18:02/20~32/34~39/41/43~52/54~59/61~99/101~105/107~112/114~121/123~138/140~144; B*08:79; B*15:138/230; B*18:35; B*35:66; B*37:07; B*40:14:01~16/23/32/45/98/114/121/136/158; B*41:08; B*42:05:01~05:02; B*48:05/08/10/12; C*02:23; C*04:77	145---147	178K178	125	3G	96	10	0	0	86	1	New: B*07:02:21, B*07:02:22, B*07:02:23, B*07:02:24, B*07:02:25, B*07:02:26, B*07:02:27, B*07:02:28, B*07:02:29, B*07:68:03, B*07:125, B*07:126, B*07:127, B*07:128, B*07:129, B*07:130, B*07:131, B*07:132, B*07:133, B*07:134, B*07:135N, B*07:136, B*07:137, B*07:138, B*07:140, B*07:141, B*07:142, B*07:143, B*07:144, B*08:79, B*15:230
	F	B*35:45/71/169; B*44:02:01:01~02:07/02:09~14/17/19N/21~30/32~36/38~40/43:01~46/48~53/55~63/66~81/83~90/92~98/102~105/107~113/115~119/121~131/133~134/136~137/139; B*51:42; B*53:22; B*57:07; B*83:01; C*15:25	94I-95	167S167	250	3F	96	8	0	0	88	1	New: B*35:169, B*44:02:18, B*44:02:19, B*44:02:20, B*44:02:21, B*44:03:14, B*44:05:03, B*44:128, B*44:129, B*44:130, B*44:131, B*44:132, B*44:133, B*44:134, B*44:136, B*44:137, B*44:139
B*08:60; B*35:38/115/169; B*37:19; B*42:13; B*44:02:01:01~02:21/05:01~06/08~09/11~12/14/16~17/19N/21~25/27:01~27:02/33~34/42/44/48~49/51~53/55/58N~59/62~63/66~68/70~75/78/80/83~84/86~91/93/95/97/101~102/104/112~113/116~119/121/123/126~127/131~134/136~137/139; B*53:22; B*57:09/24; B*83:01; C*15:25		94I-95	156D156	225									

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
3	E	B*13:01:01~08Q/10~29/31~38/40~52; B*15:36/89; B*18:09; B*37:10; B*44:60/ 83~84; B*51:54/78; B*52:20; B*53:09/ 11~13	31-31	80-A81	175	3E	98	7	0	0	91	1	New: B*13:01:06, B*13:02:11, B*13:02:12, B*13:47, B*13:48, B*13:49N, B*13:50, B*13:51, B*13:52
	D	B*13:15; B*14:01:01~12/14~22/24~28; B*35:96/109; B*37:04:01~04:02; B*39:32/48; B*49:09; B*51:13:01~ 13:02/62/92/106; B*52:14/25; B*73:01~ 02; C*08:51; C*15:39	114N-F116 / 113(-/H)N- F116	171H-----176	200	3D	96	6	0	0	90	1	New: B*14:22, B*14:24, B*14:25, B*14:26, B*14:27, B*14:28, B*52:25, C*08:51
	C	B*07:13/69/85; B*14:01:01~01:02/07N~ 08/10/12/14/19/26; B*18:33; B*27:12/ 16; B*38:01:01~02:03/04/08~25/27~32/ 34N~37; B*39:01:01:01~01:12/03/ 05:01~07/09/11/14~15/18~19:02/22/ 24:01~38Q/40N~48/50~57/59~62/64~68; B*40:75; B*67:02; C*03:137; C*07:102	10--11	67C-T69 / 66K66	200	3C	96	11	0	0	85	1	Changes: B*39:24=B*39:24:01 New: B*14:26, B*38:28, B*38:29, B*38:30, B*38:31, B*38:32, B*38:34N, B*38:35, B*38:36, B*38:37, B*39:24:02, B*39:64, B*39:65, B*39:66, B*39:67, B*39:68, C*03:137
	B	B*13:09; B*15:01:01:01~01:20/01:22~ 02:05/04~08/11:01~12/14~15/19~21/ 25:01~28/30~35/38:01~42/44~45/48/ 50/55~56/58~60/63/65~66/70~71/73/ 75~79N/81~88/92/94N/96~97/101~102/ 104~105/107/110~113/116~118/120~ 122/125~126/128~129/136~142/144~ 150/152/154~155/159~160/163~167/ 169~172/174~175/178~179/181N~185/ 187~195/199/201/203~207/209N/211/ 213~215/217~219/223~225/227~228/ 231~234/236~237; B*35:46; B*40:21/ 137; B*55:35; B*57:12	46A46	76ES-R79	125	3B	96	21	0	0	75	1	New: B*15:01:23, B*15:01:24, B*15:78:03, B*15:223, B*15:224, B*15:225, B*15:227, B*15:228, B*15:231, B*15:232, B*15:233, B*15:234, B*15:236, B*15:237
	A	B*07:04/19/25/55/100; B*08:07/37; B*15:01:01:01~01:24/04/07:01~08/ 11:01~12/14~15/19/24/26N~28/32~35/ 38:01~38:02/43/45~46/50~51/53~54/ 56~57/60/63/66/68/70~71/75~76/ 78:01~79N/81~82/85/87/92/94N/96~97/ 101~102/104~105/109~111N/113/116~ 118/120/122/125~126/129/135/140~ 143/145~149N/152/154/157/159~160/ 163~167/169/171~172/174~175/178~ 184/187/189~193/199/201~203/205~ 207/209N/211~212/215/217~218Q/225/ 227~228/231/234/236; B*18:19/56; B*35:14:01~14:02/38/43:01/62/67/79/ 86/102/115/117~118/135/163/169/185; B*37:09; B*41:04/18; B*42:09/16; B*44:17/51/123; B*45:09; B*46:01:01~ 02/04~05/07N/09~10/12/14~17/20/22~ 24/27~30; B*53:22; B*54:06; B*56:03; B*57:24; C*02:06/23/36; C*12:15	113HD114	156W156 / 156D156	150	3A	96	15	0	0	81	1	Changes: B*35:43:02=B*35:185 New: B*15:01:23, B*15:01:24, B*15:78:03, B*15:225, B*15:227, B*15:228, B*15:231, B*15:234, B*15:236, B*35:163, B*35:169, B*46:01:07, B*46:28, B*46:29, B*46:30
4	H	B*13:01:01~06/08Q~18/20~35/37~52; B*15:01:01:01~01:18/01:20~01:24/04~ 07:02/12/14/19~20/24~28/30/32~36/ 38:01~43/45/48/50/56~60/63/65~66/ 70~71/73/75/77~79N/81~87/92/94N/96~ 97/102/104~105/107/109~111N/113/ 116~118/122/125~126/128~129/135~ 138/140~142/145~147/150/152/154~ 155/157/159~160/163~167/169/171~ 172/174~175/178~179/181N~185/187~ 188/190N/192~193/195/199/201/203~ 207/211/217~219/224~225/227~228/ 231~234/236~237; B*27:67; B*40:21/ 137; B*44:08/57/60; B*52:02	46A46	63(-/I)QI66	75	4H	96	14	0	0	82	1	New: B*13:01:06, B*13:02:11, B*13:02:12, B*13:47, B*13:48, B*13:49N, B*13:50, B*13:51, B*13:52, B*15:01:23, B*15:01:24, B*15:78:03, B*15:224, B*15:225, B*15:227, B*15:228, B*15:231, B*15:232, B*15:233, B*15:234, B*15:236, B*15:237

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot#006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
4	G	B*13:15; B*14:13; B*18:26/61; B*35:81/157; B*39:32/48; B*40:28/51/113/163/174; B*51:01:01~01:30/03~04/06:01~09:02/11N~14/16/18~22/24:01~33/35/38~39/41N/43~44N/46~53/55~58/60~80/82~84/86~89/91/94~107/109~126; B*52:01:01:01~02/04~10:02/13~25/27; B*56:05:01~06/21; B*58:08:01~08:02; B*78:01:01~03/05~07	113H(N/K)114	171H---174	200	4G	96	13	0	0	83	1	Changes: B*52:10=B*52:10:01, B*58:08=B*58:08:01, B*78:01=B*78:01:01 New: B*18:61, B*40:163, B*40:174, B*51:01:26, B*51:01:27, B*51:01:28, B*51:01:29, B*51:01:30, B*51:110N, B*51:111, B*51:112, B*51:113, B*51:114, B*51:115, B*51:116, B*51:117, B*51:118N, B*51:119, B*51:120, B*51:121, B*51:122, B*51:123, B*51:124, B*51:125, B*51:126, B*52:01:10, B*52:10:02, B*52:24, B*52:25, B*52:27, B*58:08:02, B*78:01:02
		B*15:30/58/73/150; B*35:18/44; B*39:33; B*51:05/29/54/61; B*52:21/24; B*57:02:01~02:02/12/28N/42	113HN114	[156(W/-)156 + 162-L163]	175								
	F	B*07:131; B*08:25; B*14:19/27; B*15:02:01~02:03/02:05~03:03/05:01~06/09~10:02/13:01~13:02/17:01:01~18:04/21~23/25:01~25:03/29/31/36~37/39:01~39:02/48/55/61/64/72/74/80/88~91/98/103/106~108/112/115/119/123/127/131~134/136/139/151/153/155~156/158/161~162/168/170/173/176~177/185/195~198/200/204/208/210/213~214/216/219~220/223/226N/229~230/235; B*18:36/57~58; B*27:38/63/76; B*35:12:01~12:03/22/32:02/39/51/59/149; B*39:32; B*40:05/26/63/71/92/174; B*44:03:01~03:14/07/13/26/29~30/32/36~40/43:01~43:02/45~47/50/54/57/60~61N/65/69/77/79/81~82/85/92/94/96/103/105/107~111/114~115/120/122/125/128~130/135; B*46:08/13:01~13:03/19/26; B*51:01:01~04/06:01~07:02/09:01~09:02/11N~14/17~19/22~28/30/32~33/35/37~43/45~53/57~60/62~64/66~80/83~92/94~96/98N~100/102~126; B*52:01:01:01~07/09~18/20/22~23/25~27; B*53:07; B*55:08/51; B*56:04~06/21/27; B*57:01:01~01:09/01:11~01:12/03:01~03:02/06~08/10~11/14~18/20~23/27/29/31~41/44~52; B*58:08:01~08:02; B*78:01:01~06; C*03:03:05/04:18	103---105	[156L156 + 162-L163]	200	4F	96	33	0	0	63	1	Changes: B*15:13=B*15:13:01, B*52:10=B*52:10:01, B*58:08=B*58:08:01, B*78:01=B*78:01:01 New: B*07:131, B*14:27, B*15:13:02, B*15:220, B*15:223, B*15:226N, B*15:229, B*15:230, B*15:235, B*35:12:03, B*35:32:02, B*40:174, B*44:03:14, B*44:128, B*44:129, B*44:130, B*44:135, B*51:01:26, B*51:01:27, B*51:01:28, B*51:01:29, B*51:01:30, B*51:110N, B*51:111, B*51:112, B*51:113, B*51:114, B*51:115, B*51:116, B*51:117, B*51:118N, B*51:119, B*51:120, B*51:121, B*51:122, B*51:123, B*51:124, B*51:125, B*51:126, B*52:01:10, B*52:10:02, B*52:25, B*52:26, B*52:27, B*55:51, B*57:01:11, B*57:01:12, B*57:44, B*57:45, B*57:46, B*57:47, B*57:48, B*57:49, B*57:50, B*57:51, B*57:52, B*58:08:02, B*78:01:02
	E	B*13:36; B*15:02:01~02:05/08/11:01~11:05/13:01~13:02/15/21/31/44/55/76/88~89/112/121/139/144/148/170/189/191/194/209N/213~215/223; B*35:46; B*51:104; B*55:35	45-A46	63N-64	100	4E	96	9	0	0	87	1	Changes: B*15:13=B*15:13:01 New: B*15:13:02, B*15:223
D	B*08:65; B*14:11/28; B*15:09~10:02/18:01~18:04/21~23/37/44/51~52/66/72/80/90/93/99/108/114~115/119/124/133~134/153/161/176/186/189/197~198/200/221/226N/229/238; B*35:26/82/85/135; B*38:33; B*39:04/12; B*51:22; B*78:03	11AM12 / 9D9	67C-T69	200	4D	96	5	0	0	91	1	New: B*08:72N, B*14:28, B*15:226N, B*15:229, B*15:238, B*38:33	
	B*15:122	11AM12	57L--59	175									
	B*08:72N; B*15:49/94N	11AM12	75ZES77 / 72R-Y-75	225									

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New
							TP	FN	FP	TN		
4	C B*07:05:01~06/32/34/40/53/69/78/80/90/97/105/112/123/137~138/140; B*08:20/53/79; B*13:16/20/31/48; B*14:13; B*15:09/30/42/58/73/150/229; B*27:20/24; B*35:44; B*38:10/32; B*39:18/35~36; B*40:05/15~16/23/26/28/51/95/148/158/161/174; B*48:05/15; B*51:01:01~01:18/01:20~02:02/02:04~04/06:01~07:02/11N~14/16/18/21~30/32~36/38~39/41N/43/46~53/55~71/74~80/82~84/86/88~89/95~96/98N~107/109~114/116~121/123~126; B*52:01:01:01~02/04~09/11/13~18/20~25/27; B*54:20; B*55:01:01~01:08/03/05/09/11/15/17/21/24~25/28~29/31/33/36/38/40/44~45/52~54; B*56:05:01~06/21/25; B*57:09; B*58:08:01~08:02; B*78:01:01~03/05~07; C*15:24 B*15:16:01~16:03/67/95; B*49:01:01/01:03~10/12~20; B*50:01:01~01:02/02~11/13~15	112-HN114 / 111P111	152E--154 / 152E---155	150	4C	96	24	0	0	72	1	Changes: B*15:16=B*15:16:01, B*58:08=B*58:08:01, B*78:01=B*78:01:01 New: B*07:137, B*07:138, B*07:140, B*08:79, B*13:48, B*15:16:02, B*15:16:03, B*15:229, B*38:32, B*40:174, B*49:17, B*49:18, B*49:19N, B*49:20, B*50:14, B*50:15, B*51:01:26, B*51:01:27, B*51:01:28, B*51:01:29, B*51:01:30, B*51:110N, B*51:111, B*51:112, B*51:113, B*51:114, B*51:116, B*51:117, B*51:118N, B*51:119, B*51:120, B*51:121, B*51:123, B*51:124, B*51:125, B*51:126, B*52:01:10, B*52:24, B*52:25, B*52:27, B*55:01:08, B*55:52, B*55:53, B*55:54, B*58:08:02, B*78:01:02
	B B*07:36/38/81; B*18:09/67; B*27:75; B*37:10; B*38:01:01~04/06~15/18~27/29~32/34N~37; B*44:130; B*48:18; B*51:116	[10----13 + 24S24]	81A81	225	4B	96	6	0	0	90	1	New: B*18:67, B*38:29, B*38:30, B*38:31, B*38:32, B*38:34N, B*38:35, B*38:36, B*38:37, B*44:130, B*51:116
	A B*15:69/108/136/186/235; B*35:35; B*38:01:01~09/11~29/31~35; B*39:01:01:01~13:02/15~28/31~32/35/37~42/44~68; B*46:19; B*58:20; B*67:01:01~03; C*05:70; C*06:40; C*07:137:01~137:02; C*15:51	114D-(S/F/L)116	158T158	150	4A	96	13	0	0	83	1	Changes: B*39:10=B*39:10:01, B*39:24=B*39:24:01 New: B*15:235, B*38:28, B*38:29, B*38:31, B*38:32, B*38:33, B*38:34N, B*38:35, B*39:10:02, B*39:24:02, B*39:64, B*39:65, B*39:66, B*39:67, B*39:68, C*05:70, C*15:51
5	H B*07:03/08/16/27/32/38/50/69/85; B*08:01:01~01:04/01:06~31/33~80; B*14:01:01~20/22~28; B*15:03:01~03:03/09~10:02/18:01~18:04/23/29/37/47/49/51~52/54/61~62/64/68~69/72/80/90~91/93/99/103/108/114~115/123~124/127/131~134/151/153/156/158/161/173/176/180/186/197~198/200/210/220~221/226N/229/235/238; B*18:37; B*27:12/16/18/23/29; B*35:25~26/49; B*37:28; B*38:01:01~05/08~25/27~37; B*39:01:01:01~01:05/01:07~18/20~51/53~68; B*40:12/46/93; B*42:07/11; B*44:40/130; B*48:01:01~27; B*52:16; B*55:18; B*59:01:01:01~05	42-PRE45	69TNT-72	100	5H	96	34	0	0	62	1	Changes: B*39:10=B*39:10:01, B*39:24=B*39:24:01 New: B*08:01:16, B*08:70, B*08:71, B*08:72N, B*08:73, B*08:74, B*08:75, B*08:76, B*08:77, B*08:78, B*08:79, B*08:80, B*14:22, B*14:23, B*14:24, B*14:25, B*14:26, B*14:27, B*14:28, B*15:220, B*15:226N, B*15:229, B*15:235, B*15:238, B*38:28, B*38:29, B*38:30, B*38:31, B*38:32, B*38:33, B*38:34N, B*38:35, B*38:36, B*38:37, B*39:10:02, B*39:24:02, B*39:64, B*39:65, B*39:66, B*39:67, B*39:68, B*44:130, B*48:26, B*48:27
	G B*58:01:01~35	43PRT45	70S70	125	5G	96	7	0	0	89	1	Changes: B*58:08=B*58:08:01 New: B*58:08:02, B*58:34, B*58:35
	F B*07:78; B*13:01:01~03/07N~09/11/14~20/22:01~25/27~34/36~45/47~50/52; B*15:73; B*40:48/71; B*44:10/15/18; B*45:01/03~07/10~13; B*46:11; B*49:01:01~03/06~07/09~17/19N~20; B*50:01:01~08/10~13/15; B*51:15/62/106; B*52:25; B*54:03; B*55:09/22/24; B*56:01:01~02/04/07~08/13~14/16~17/20:01~20:02/24~30; B*59:04; B*82:01~03	114N(-/R)L116	163(E/L)--165	175	5F	96	16	0	0	80	1	Changes: B*56:20=B*56:20:01 New: B*13:01:06, B*13:02:11, B*13:02:12, B*13:47, B*13:48, B*13:49N, B*13:50, B*13:52, B*49:17, B*49:19N, B*49:20, B*50:15, B*52:25, B*56:20:02

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New
							TP	FN	FP	TN		
5	E B*35:152; B*44:24; B*51:39; B*54:01:01-01:02/03-04/06-24; C*05:30	11AM12	52V52	150	5E	96	2	0	0	94	1	New: B*35:163
	B*15:77/85/144/154; B*35:14:01~14:02/62/163; C*03:21/80; C*06:14; C*12:44	94I-95	156W156	225								
	D B*07:29/72/86; B*08:01:01-01:07/01:09~31/33-65/68-80; B*14:11/28; B*15:03:01~03:03/09~10:02/18:01~18:04/23/29/37/47/49/51~52/54/61~62/64/69/72/74/80/90~91/93/98-99/103/108/114~115/119/123-124/127/131~134/151/153/156/158/161/173/176/180/186/197~198/200/210/220~221/226N/229/235/238; B*35:25/49; B*38:33; B*39:04/63; B*40:12/46; B*44:40/44; B*48:22; B*52:16; B*55:01:01~05/08-09/11~34/36-54; B*56:01:01-05:02/07~32; B*59:01:01:01~05; B*83:01	9(D/Y)-AM12	[44RE45 + 50-50]	150	5D	96	25	0	0	71	1	Changes: B*56:20=B*56:20:01 New: B*08:01:16, B*08:70, B*08:71, B*08:72N, B*08:73, B*08:74, B*08:75, B*08:76, B*08:77, B*08:78, B*08:79, B*08:80, B*14:28, B*15:220, B*15:226N, B*15:229, B*15:235, B*15:238, B*38:33, B*55:01:08, B*55:50, B*55:51, B*55:52, B*55:53, B*55:54, B*56:20:02, B*56:32
	B*54:01:01-01:02/03-04/06-24; B*55:07; C*05:30	9Y-AM12	44RG45	125								
	C B*07:19/31/34/43; B*08:01:01~10/13~15/17~20/22~24/26/28-39/41~48/50~59/61~75/77~78/80; B*13:46; B*14:05/13; B*15:42/83; B*18:14; B*35:60/87; B*37:09; B*38:19; B*39:03/06:01~06:02/14/24:01~24:02/29/34/37/62/64; B*40:39; B*41:02:01~02:04/04/10~11/13/15/18; B*42:01:01~11/14~16; B*46:18; B*51:21/36/101; B*54:01:01~02/04~05N/07~08N/10~24; B*55:01:01~07/10/12~13/15~21/23/25~50/52~54; B*56:23; B*59:01:01:01~03/05; B*78:07; C*08:08	95W-T97 / 94-L-S97	163T--165	225	5C	96	16	0	0	80	1	Changes: B*39:24=B*39:24:01 New: B*08:01:16, B*08:70, B*08:71, B*08:72N, B*08:73, B*08:74, B*08:75, B*08:77, B*08:78, B*08:80, B*39:24:02, B*39:64, B*41:02:04, B*55:01:08, B*55:50, B*55:52, B*55:53, B*55:54
	B*27:01~02:01/03~04:01/05:02~05:05/05:07/05:10/06~07:01/08~14/16~25/32/35/37~38/47/66N/68~69; B*44:130; B*81:01; B*83:01	-9-V-8	[44RE45 + 50-50]	325								
A B*15:202; B*18:12; B*27:52; B*35:10/13/16/28/69/80; B*37:01:01~01:05/01:07~05/07/09~27/29~31; B*44:83/134; B*49:03; B*52:01:01:01~01:10/03~15/17/19~27; B*53:17:01~17:02; B*78:05~06	41--PRT45 / 43(P/-)RT45	63--QI66	100	5A	96	9	0	0	87	1	Changes: B*35:43:02=B*35:185, B*52:10=B*52:10:01 New: B*37:01:08, B*37:29, B*37:30N, B*37:31, B*44:134, B*52:01:10, B*52:10:02, B*52:24, B*52:25, B*52:26, B*52:27	
B*18:49; B*35:27/56/185; B*78:06	41--PRT45	77--RN80	125									
6	H B*15:02:01/20~21/25:01/44/62/77/80/85/88/106/112/121; B*18:22; B*35:01:01:01/01:02~01:06/02:01~02:02/03:01/04:01~04:02/06~08:02/09:01~09:02/10~11:01/12:01/13~20:01/21/23~24:01/25~30/33~36/38~42:01/45~50/52~57/59/61~65Q/69~71; B*40:04/28/59/64/68; B*44:09/46; B*48:02:01	[73-Y74 + 78-RN80]	Intron 2	275	6H	96	13	0	0	83	1	

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
6	G	B*07:65/134; B*08:32; B*15:202; B*18:01:01~08/10~36/38~47/50~53/55~ 65/68; B*35:01:01:01~03:02/03:04~ 08:01/08:03~08:04/09:01~18/20:01~ 24:02/28~45/48/50~55/57~62/64~153/ 155~184/186; B*37:11/14; B*39:19:01~ 19:02; B*56:06; B*78:01:01~05/07	45T45	77S-RN-81	125	6G	96	13	0	0	83	1	Changes: B*35:32=B*35:32:01, B*35:43:02(-), B*78:01=B*78:01:01 New: B*07:134, B*18:01:12, B*18:01:13, B*18:01:14, B*18:60, B*18:61, B*18:62, B*18:63, B*18:64, B*18:65, B*18:68, B*35:01:24, B*35:01:25, B*35:01:26, B*35:01:27, B*35:01:28, B*35:01:29, B*35:03:10, B*35:09:03, B*35:12:03, B*35:32:02, B*35:161, B*35:162, B*35:163, B*35:164, B*35:165N, B*35:166, B*35:167, B*35:168, B*35:169, B*35:170, B*35:171, B*35:172, B*35:173N, B*35:174, B*35:175, B*35:176, B*35:177, B*35:178, B*35:179, B*35:180, B*35:181, B*35:182, B*35:183, B*35:184, B*35:186, B*78:01:02
	F	B*13:04/26/35; B*14:23; B*15:03:01~ 03:03/05:01~05:02/10:01~10:02/ 16:01~16:03/18:01~18:02/18:04/20/ 23/29/37/39:01~40/52/61~62/64/67/ 69/74/80/90~91/93/95/98/103/108/ 114~115/119/123~124/127/131~134/ 136/138/151/153/155/158/161/173/ 176/185~186/194~195/197~198/200/ 210/220/222~223/226N/235/238; B*18:01:01~12/14~18/22~25/27~29/31~ 39/42~55/57~60/62~68; B*27:41; B*35:01:01:01~01:29/03:01~03:10/ 05:01~05:02/07/10~11:02/13/15~17/ 19~21/23~30/32:01~37/39~42:02/46~ 58/63/65Q/68:01~78/82/84~85/89~94/ 96~98/101:01~101:02/103~104/106~ 113/116/119~120/122~128/130N~132/ 134N/136~141/143~148/150~153/155/ 159~161/165N~168/170~171/173N/175/ 177~181/186; B*38:29; B*39:07:15/29/ 43/49/55; B*44:43:01~43:02/107; B*46:08/13:01~13:03/19/21:01~21:02/ 26; B*48:02:01~02:02/25; B*49:04; B*51:37/45/90/92; B*52:12; B*53:01:01~06/08:01~10/12~15/17:01~ 18/20~21/23/25~27; B*54:09/14; B*55:14/23/27; B*56:09/11/18/31~32; B*57:01:01/01:03~01:12/06/08/10~11/ 14~16/18/20~23/25~27/29/33~38/40/ 43~45/47~52; B*58:01:01~07/09~19/21/ 23~26/29~36	[113HD-(S/Y/F)116 + 131S131]	156L156	125	6F	96	37	0	0	59	1	Changes: B*15:16=B*15:16:01, B*35:32=B*35:32:01 New: B*14:23, B*15:16:02, B*15:16:03, B*15:220, B*15:222, B*15:223, B*15:226N, B*15:235, B*15:238, B*18:01:12, B*18:01:13, B*18:01:14, B*18:60, B*18:62, B*18:63, B*18:64, B*18:65, B*18:66, B*18:67, B*18:68, B*35:01:24, B*35:01:25, B*35:01:26, B*35:01:27, B*35:01:28, B*35:01:29, B*35:03:10, B*35:32:02, B*35:161, B*35:165N, B*35:166, B*35:167, B*35:168, B*35:170, B*35:171, B*35:173N, B*35:175, B*35:177, B*35:178, B*35:179, B*35:180, B*35:181, B*35:186, B*38:29, B*53:25, B*53:26, B*53:27, B*56:32, B*57:01:11, B*57:01:12, B*57:44, B*57:45, B*57:47, B*57:48, B*57:49, B*57:50, B*57:51, B*57:52, B*58:34, B*58:35, B*58:36
	E	B*07:54/123; B*08:17/38/54; B*15:03:01~03:03/47/49/54/61~62/68~ 69/74/91/98/103/123/127/131~132/ 151/156/158/173/210/220/235; B*18:12; B*27:75; B*37:01:01~07/09~ 21/23~31; B*38:03~04/25; B*39:02:01~ 02:02/08/13:01~13:02/22~23/49; B*40:12/149; B*42:11; B*44:130; B*48:01:01~02:01/03:01~05/07~15/17~ 27; B*52:16/27	23-S24	63--QI66	150	6E	96	11	0	0	85	1	New: B*15:220, B*15:235, B*37:01:08, B*37:29, B*37:30N, B*37:31, B*44:130, B*48:26, B*48:27, B*52:27
D	B*15:212; B*35:63; B*40:01:01~01:12/ 01:14~01:23/07/14:01~16/22N~23/25/ 30~34/36/38/42~43/45/47~48/51~55/ 59~63/65~67/69/72:01~73/76~77/79~ 81/84/87:01~88/92/100~102/106/108/ 112~114/116~118N/121/123~126/128/ 130/132/134~136/138~141/146~147/ 150~156/158/160/163/166/168/170~ 172/175/178~179; B*41:01~19; B*44:15/ 18/55; B*45:01~13; B*49:01:01~02/04~ 09/11~20; B*50:01:01~05/07~12/14~15; B*57:51	9H-AM12	45K45	125	6D	96	16	0	0	80	1	New: B*40:01:21, B*40:01:22, B*40:01:23, B*40:163, B*40:166, B*40:168, B*40:170, B*40:171, B*40:172, B*40:175, B*40:178, B*40:179, B*41:02:04, B*41:19, B*49:17, B*49:18, B*49:19N, B*49:20, B*50:14, B*50:15, B*57:51	

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
6	C	A*26:01:18; B*07:134; B*13:14; B*15:71/175; B*18:01:12/07:02/29/48; B*27:67; B*35:50/84/162; B*37:08; B*38:06~07/25; B*39:19:01; B*40:02:01~06:04/08~09/11:01~11:02/ 13/18~20/24/26~29/35/37/39~40/44/ 50/56~57/64/68/70~71/74~75/78/82~ 83/85~86/89~91/94~99/103~105/107/ 109/111/115/119~120/122/127/131/ 133Q/142N~145/148~149/157/159/161~ 162/165/167/169/173~174/176~177/ 180; B*44:103/131; B*51:57/103/116; B*53:21; B*57:10	10--11	50--51	150	6C	96	7	0	0	89	1	New: B*07:134, B*18:01:12, B*35:162, B*40:06:04, B*40:165, B*40:167, B*40:169, B*40:173, B*40:174, B*40:176, B*40:177, B*40:180, B*44:131, B*51:116
	B	B*27:36; B*40:01:01~01:06/01:08~ 01:19/01:21~01:23/07/10:01~10:02/ 12/21~22N/25/30~31/33~34/36/38/42~ 43/46~49/52/54~55/59~63/65~67/69/ 72:01~74/76~77/79~81/84/87:01~88/ 100~102/106/108/112~113/116~118N/ 123~126/128/132/134~135/137~141/ 146~147/149~156/160/166/168/170~ 172/175/179; B*44:31; B*46:06; B*48:01:01~01:03/03:01~03:02/06~07/ 09/11/14~23/26~27; B*81:01~05; C*07:38	147L147	178K178	125	6B	96	8	0	0	88	1	New: B*40:01:21, B*40:01:22, B*40:01:23, B*40:166, B*40:168, B*40:170, B*40:171, B*40:172, B*40:175, B*40:179, B*48:26, B*48:27
	A	B*13:09; B*15:46/53/106/212; B*18:48; B*35:46~47/63/154; B*40:01:01~01:04/ 01:06~11:02/14:01~18/20/22N~36/38~ 45/48~75/77~82/84~92/94~95/97~108/ 111~116/118N~134/136/138~156/158~ 169/171~180; B*41:01~19; B*44:09/46/ 90/129/131; B*45:01~13; B*47:02~03; B*50:01:01~04/06/08~15; C*07:69	40-T41	77S-R(K/N)80	150	6A	96	19	0	0	77	1	New: B*40:01:21, B*40:01:22, B*40:01:23, B*40:06:04, B*40:163, B*40:164, B*40:165, B*40:166, B*40:167, B*40:168, B*40:169, B*40:171, B*40:172, B*40:173, B*40:174, B*40:175, B*40:176, B*40:177, B*40:178, B*40:179, B*40:180, B*41:02:04, B*41:19, B*44:129, B*44:131, B*50:14, B*50:15
7	H	B*07:25/48; B*08:01:01~08N/10~11/13~ 15/17~19N/21~26/28~42/44~48/50~52/ 54~59/61~69/71~75/77~78/80; B*15:55; B*18:14; B*27:07:01~07:02/11/32~34/ 43; B*35:05:01~05:02/22/31/51/66/72/ 87/89/97/114; B*37:09; B*38:19; B*39:03/14/24:01~24:02/29/37; B*40:02:01~03/08~09/13/18~19/24/ 27:01~27:02/29/31/35/37/39~40/45/ 50/56~58/71/78/80/82/85/89~91/94/ 97/104~105/107/111/115/119/122/ 133Q/142N~145/157/164/169/173/176/ 180; B*41:02:01~02:04/04/10~11/13/ 15/18~19; B*42:01:01~02/05:01~12/14~ 16; B*44:54/106/135; B*48:01:01~ 01:03/04/06~07/09~14/16/18~20/22/ 24/27; B*51:81; B*53:14; B*55:04/49/ 51; B*58:18/27; B*81:01~05	95L-S97	152V152	200	7H	96	19	0	0	77	1	Changes: B*27:07=B*27:07:01, B*39:24=B*39:24:01 New: B*08:01:16, B*08:71, B*08:72N, B*08:73, B*08:74, B*08:75, B*08:77, B*08:78, B*08:80, B*27:07:02, B*39:24:02, B*40:164, B*40:169, B*40:173, B*40:176, B*40:180, B*41:02:04, B*41:19, B*44:135, B*48:27, B*55:51

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
7	G B*07:02:01~02:27/02:29/04~07/09/11~12/14~15/17~26/28~31/33~36/39~49N/51~55/57~64/66~68:03/70~71/73~82/84/86~124/126~144; B*14:21; B*38:26; B*42:01:01~06/08~10/12~16; B*54:21; B*55:10; B*56:16; B*67:01:01~01:02/03; B*81:01~04N; B*82:01~03; B*83:01	23-S24	67Y--69	150	7G	96	18	0	0	78	1	New: B*07:02:21, B*07:02:22, B*07:02:23, B*07:02:24, B*07:02:25, B*07:02:26, B*07:02:27, B*07:02:29, B*07:68:03, B*07:126, B*07:127, B*07:128, B*07:129, B*07:130, B*07:131, B*07:132, B*07:133, B*07:134, B*07:135N, B*07:136, B*07:137, B*07:138, B*07:139, B*07:140, B*07:141, B*07:142, B*07:143, B*07:144, B*13:02:11, B*13:02:12, B*13:47, B*13:49N, B*27:81, B*40:06:04, B*40:165, B*40:167, B*40:177	
	B*07:78/84; B*13:02:01~02:12/08Q~09/14~16/18~19/27/30~35/37~38/40~42/44~45/47/49N; B*27:14/81; B*39:50; B*40:06:01:01~06:04/44/53/70/75/83/86/93/95~96/103/109~110/127/131/148/159/161~162/165/167/177; B*45:10; B*49:07; B*51:10/16/31/34/82/93; B*52:08; B*55:09/22/24; B*73:01~02	95W95	163E163	225									
	F B*46:01:01~03/05~15N/17~30	46A46	66K66	100	7F	96	2	0	0	94	1	New: B*46:01:07, B*46:28, B*46:29, B*46:30	
E B*15:31/55; B*27:76; B*35:164; B*44:02:01:01~02:02/02:04~03:14/05:01/05:03~09/11~13/15/18~20/22~30/32~42/44/46~50/52N~55/57~61N/63/65~75/78/80~81/83~87/89~106/108N~122/125~131/133~134/136~139; B*45:01~07/11~13; B*49:11; B*51:42; B*53:07; B*57:04~05/41; B*83:01; C*03:36/77; C*04:34	113-113	[152V152 + 161--L163]	175	7E	96	11	0	0	85	1	New: B*35:164, B*44:02:18, B*44:02:19, B*44:02:20, B*44:02:21, B*44:03:14, B*44:05:03, B*44:128, B*44:129, B*44:130, B*44:131, B*44:133, B*44:134, B*44:136, B*44:137, B*44:138Q, B*44:139		
D B*07:02:01~02:02/02:04~05:03/05:05~12/14~29/31~55/57~62/64/66~72/74~108/110~132/135N~144; B*08:01:11/56; B*15:03:03/10:02/68; B*18:37; B*27:75; B*35:26/49; B*37:28; B*39:13:02; B*42:01:01~16; B*48:01:01~27; B*52:16; B*56:03; B*73:01~02; B*81:01~05; B*83:01	31-31	44RE--47	100	7D	96	16	0	0	80	1	New: B*07:02:21, B*07:02:22, B*07:02:23, B*07:02:24, B*07:02:25, B*07:02:26, B*07:02:27, B*07:02:28, B*07:02:29, B*07:68:03, B*07:125, B*07:126, B*07:127, B*07:128, B*07:129, B*07:130, B*07:131, B*07:132, B*07:135N, B*07:136, B*07:137, B*07:138, B*07:139, B*07:140, B*07:141, B*07:142, B*07:143, B*07:144, B*48:26, B*48:27		

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New
							TP	FN	FP	TN		
7 C	B*07:27/36/38/81; B*08:02~03/52/78; B*13:01:01~08Q/10~27/29~38/40~52; B*15:13:01~13:02/16:01~17:02/23~24/ 36/43/67/87/89/95/115/157/162/168/ 177/196/208/216/222/230; B*18:09/54/ 67; B*27:01~07:02/09~11/13~17/19~25/ 27~32/34~39/41/43/45~48/50~86; B*37:01:01~04:02/06~10/12~23/25~31; B*38:01:01~37; B*40:13/19/47/96/109~ 110/117/157; B*44:02:01:01~08/10~45/ 47~74/76~89/91~110/112~126/128/130/ 132~139; B*47:01:01:01~01:02/03~08; B*48:18; B*49:01:01~20; B*51:01:01~ 01:13/01:15~66/68~99/101~109/111~ 126; B*52:01:01:01~03/05~27; B*53:01:01~09/11~27; B*54:12; B*56:07/21; B*57:01:01~01:07/01:09~ 07/09~11/13~33/35~52; B*58:01:01~36; B*59:01:01:01~05	43P43	82LR83 / 84D84	150	7C	96	54	0	0	42	1	Changes: B*15:13=B*15:13:01, B*15:16=B*15:16:01, B*27:02=B*27:02:01, B*27:07=B*27:07:01, B*52:10=B*52:10:01, B*58:08=B*58:08:01 New: B*08:78, B*13:01:06, B*13:02:11, B*13:02:12, B*13:47, B*13:48, B*13:49N, B*13:50, B*13:51, B*13:52, B*15:13:02, B*15:16:02, B*15:16:03, B*15:222, B*15:230, B*18:67, B*27:02:02, B*27:05:17, B*27:07:02, B*27:80, B*27:81, B*27:82, B*27:83, B*27:84, B*27:85, B*27:86, B*37:01:08, B*37:29, B*37:30N, B*37:31, B*38:28, B*38:29, B*38:30, B*38:31, B*38:32, B*38:33, B*38:34N, B*38:35, B*38:36, B*38:37, B*44:02:18, B*44:02:19, B*44:02:20, B*44:02:21, B*44:03:14, B*44:05:03, B*44:128, B*44:130, B*44:132, B*44:133, B*44:134, B*44:135, B*44:136, B*44:137, B*44:138Q, B*44:139, B*49:17, B*49:18, B*49:19N, B*49:20, B*51:01:26, B*51:01:27, B*51:01:28, B*51:01:29, B*51:01:30, B*51:111, B*51:112, B*51:113, B*51:114, B*51:115, B*51:116, B*51:117, B*51:118N, B*51:119, B*51:120, B*51:121, B*51:122, B*51:123, B*51:124, B*51:125, B*51:126, B*52:01:10, B*52:10:02, B*52:24, B*52:25, B*52:26, B*52:27, B*53:25, B*53:26, B*53:27, B*57:01:11, B*57:01:12, B*57:44, B*57:45, B*57:46, B*57:47, B*57:48, B*57:49, B*57:50, B*57:51, B*57:52, B*58:08:02, B*58:34, B*58:35, B*58:36

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New
							TP	FN	FP	TN		
7	B Bw6 (w/o B*07:13, B*07:97, B*07:110, B*08:29, B*08:36, B*14:02:05, B*35:02:03, B*35:152, B*35:175, B*39:24:02, B*40:76, B*40:127, B*40:135, B*41:05, B*48:20, B*54:01:01, B*54:01:02, B*54:02, B*54:03, B*54:04, B*54:06, B*54:07, B*54:09, B*54:10, B*54:11, B*54:13, B*54:14, B*54:15, B*54:16, B*54:17, B*54:18, B*54:19, B*54:20, B*54:21, B*54:22, B*54:23, B*54:24, B*67:02)	52-52	79RN--82	100	7B	96	73	0	0	23	1	Changes: B*35:32=B*35:32:01, B*35:43:02=B*35:185, B*39:10=B*39:10:01, B*39:24=B*39:24:01, B*56:20=B*56:20:01, B*78:01=B*78:01:01 New: B*07:02:21, B*07:02:22, B*07:02:23, B*07:02:24, B*07:02:25, B*07:02:26, B*07:02:27, B*07:02:28, B*07:02:29, B*07:68:03, B*07:125, B*07:126, B*07:127, B*07:128, B*07:129, B*07:130, B*07:131, B*07:132, B*07:133, B*07:134, B*07:135N, B*07:136, B*07:137, B*07:138, B*07:139, B*07:140, B*07:141, B*07:142, B*07:143, B*07:144, B*08:01:16, B*08:70, B*08:71, B*08:72N, B*08:73, B*08:74, B*08:75, B*08:76, B*08:77, B*08:79, B*08:80, B*14:22, B*14:23, B*14:24, B*14:25, B*14:26, B*14:27, B*14:28, B*15:01:23, B*15:01:24, B*15:78:03, B*15:220, B*15:223, B*15:224, B*15:225, B*15:226N, B*15:227, B*15:228, B*15:229, B*15:231, B*15:232, B*15:233, B*15:234, B*15:235, B*15:236, B*15:237, B*15:238, B*18:01:12, B*18:01:13, B*18:01:14, B*18:60, B*18:61, B*18:62, B*18:63, B*18:64, B*18:65, B*18:66, B*18:68, B*35:01:24, B*35:01:25, B*35:01:26, B*35:01:27, B*35:01:28, B*35:01:29, B*35:03:10, B*35:08:05, B*35:09:03, B*35:12:03, B*35:32:02, B*35:161, B*35:162, B*35:163, B*35:164, B*35:165N, B*35:166, B*35:167, B*35:168, B*35:169, B*35:170, B*35:171, B*35:172, B*35:174, B*35:176, B*35:177, B*35:178, B*35:179, B*35:180, B*35:181, B*35:182, B*35:183, B*35:184, B*35:186, B*39:10:02, B*39:64, B*39:65, B*39:66, B*39:67, B*39:68, B*40:01:21, B*40:01:22, B*40:01:23, B*40:06:04, B*40:163, B*40:164, B*40:165, B*40:166, B*40:167, B*40:168, B*40:169, B*40:170, B*40:171, B*40:172, B*40:173, B*40:174, B*40:175, B*40:176, B*40:177, B*40:178, B*40:179, B*40:180, B*41:02:04, B*41:19, B*44:129, B*44:131, B*46:01:07, B*46:28, B*46:29, B*46:30, B*48:26, B*48:27, B*50:14, B*50:15, B*55:01:08, B*55:50, B*55:51, B*55:52, B*55:53, B*55:54, B*56:20:02, B*56:32, B*78:01:02
	A C*01:02:01~61; C*04:71	9-9	66K66	225	7A	96	16	0	0	80	1	New: C*01:52, C*01:53, C*01:54, C*01:55, C*01:56N, C*01:57, C*01:58, C*01:59, C*01:60, C*01:61

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
8	H	A*30:41; B*15:171; C*02:02:01~20/22~25Q/27:01~32/34~48/50~55; C*04:107; C*05:26; C*15:11; C*16:34	15-S16	90A-91	275	8H	96	11	0	0	85	1	New: C*02:02:18, C*02:02:19, C*02:02:20, C*02:02:21, C*02:02:22, C*02:48, C*02:50, C*02:51, C*02:52N, C*02:53, C*02:54, C*02:55, C*04:107, C*16:34
	G	C*03:02:01~04:06/04:08~13/15/17~40:01/42~43:01/44~57/59~79/81~85/88~93/95~98/100~101/103~109/111~112/114~118/120~139	129-129	173K173	200	8G	96	15	0	0	81	1	Changes: C*03:40=C*03:40:01 New: C*03:02:08, C*03:03:14, C*03:03:15, C*03:03:16, C*03:03:17, C*03:03:18, C*03:04:21, C*03:04:22, C*03:04:23, C*03:04:24, C*03:04:25, C*03:109, C*03:111, C*03:112, C*03:114, C*03:115, C*03:116, C*03:117, C*03:118, C*03:120, C*03:121N, C*03:122, C*03:123, C*03:124, C*03:125, C*03:126, C*03:127, C*03:128, C*03:129, C*03:130, C*03:131, C*03:132, C*03:133, C*03:134, C*03:135, C*03:136, C*03:137, C*03:138, C*03:139
	F	C*01:55; C*04:01:01:01~14/16/18~20/24~36/38~53/55~59Q/61~73/75~79/81~99/101~107; C*05:64; C*08:19; C*18:01~05	97R-F99	113-N114	100	8F	96	29	0	0	67	1	New: C*01:55, C*03:03:14, C*03:03:15, C*03:03:16, C*03:03:17, C*03:03:18, C*03:112, C*03:116, C*03:119, C*03:120, C*03:122, C*03:124, C*03:126, C*03:127, C*03:132, C*03:133, C*04:01:27, C*04:01:28, C*04:01:29, C*04:01:30, C*04:01:31, C*04:01:32, C*04:01:33, C*04:01:34, C*04:01:35, C*04:01:36, C*04:85, C*04:86, C*04:87, C*04:88N, C*04:89, C*04:90, C*04:91, C*04:92, C*04:93N, C*04:94:01, C*04:94:02, C*04:95N, C*04:96, C*04:97, C*04:98, C*04:99, C*04:101, C*04:102, C*04:103, C*04:104, C*04:105N, C*04:106, C*04:107, C*05:64, C*18:05
		C*03:03:01~03:18/11:01~13/20N~22Q/30~31/43:01~43:02/49~50/52~53/55~56/58~59/61~62/66~69/75~76/79/81/83/85~86/88/96~97/102~103/112/116/119~120/122/124/126~127/132~133; C*15:12	11A11	91R91	275								
E	B*44:85; B*55:30; C*01:48; C*02:02:01~07/09~32/34~40/43~48/50~55; C*03:02:01~02:08/04:01:01~10/14/16~17/19/23~29/33~36/38:01~38:02/40:01~42/44/46~48/51/54/57/63/65/70~74/77~78/80/82/84/87/89~95/98/100~101/104~106/108~111/113~115/117~118/121N/123/125/128~131/134~135/137~139; C*04:107; C*05:58:01~58:02; C*14:03/22; C*15:02:01~09/11/13~24/26~56; C*16:34	18---H-22	90A-91	250	8E	96	30	0	0	66	1	Changes: C*03:40=C*03:40:01 New: C*02:02:18, C*02:02:19, C*02:02:20, C*02:02:21, C*02:02:22, C*02:26:03, C*02:48, C*02:50, C*02:51, C*02:52N, C*02:53, C*02:54, C*02:55, C*03:02:08, C*03:04:21, C*03:04:22, C*03:04:23, C*03:04:24, C*03:04:25, C*03:110, C*03:111, C*03:109, C*03:110, C*03:111, C*03:113, C*03:114, C*03:115, C*03:117, C*03:118, C*03:121N, C*03:123, C*03:125, C*03:128, C*03:129, C*03:130, C*03:131, C*03:134, C*03:135, C*03:137, C*03:138, C*03:139, C*04:107, C*05:58:01, C*05:58:02, C*15:05:06, C*15:49, C*15:50, C*15:51, C*15:52, C*15:53, C*15:54, C*15:55, C*15:56, C*16:34	

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
8	D	C*02:49; C*04:01:01:01~01:09/01:11/01:13~01:22/01:24~10/12~26/28~32/34~51/53~54/56~106; C*05:25/42; C*06:05; C*07:02:09; C*08:28; C*12:28; C*15:25; C*16:26	43P43	90-90	175	8D	96	20	0	0	76	1	New: C*02:49, C*04:01:27, C*04:01:28, C*04:01:29, C*04:01:30, C*04:01:31, C*04:01:32, C*04:01:33, C*04:01:34, C*04:01:35, C*04:01:36, C*04:85, C*04:86, C*04:87, C*04:88N, C*04:89, C*04:90, C*04:91, C*04:92, C*04:93N, C*04:94:01, C*04:94:02, C*04:95N, C*04:96, C*04:97, C*04:98, C*04:99, C*04:100, C*04:101, C*04:102, C*04:103, C*04:104, C*04:105N, C*04:106
	C	C*05:01:01:01~19/21~28/30~31/33~72; C*06:05/67; C*08:10; C*12:21/33; C*17:05	35Q35	77--R79	150	8C	96	4	0	0	92	1	Changes: C*05:09=C*05:09:01, C*05:18=C*05:18:01, C*05:22=C*05:22:01 New: C*05:01:16, C*05:01:17, C*05:01:18, C*05:09:02, C*05:18:02, C*05:18:03, C*05:22:02, C*05:54, C*05:55, C*05:56, C*05:57, C*05:58:01, C*05:58:02, C*05:59, C*05:60, C*05:61, C*05:62, C*05:63, C*05:64, C*05:65, C*05:66, C*05:67, C*05:68, C*05:69, C*05:70, C*05:71, C*05:72, C*06:67
	B	C*02:14; C*04:42; C*05:43; C*06:02:01:01~02:05/02:07~02:11/02:13~02:19/04~10/12~68; C*07:07/09/49/76/210; C*15:23; C*18:01~05	9D9	76V-77	225	8B	96	20	0	0	76	1	New: C*06:02:13, C*06:02:14, C*06:02:15, C*06:02:16, C*06:02:17, C*06:02:18, C*06:02:19, C*06:59, C*06:60, C*06:61, C*06:62, C*06:63, C*06:64, C*06:65, C*06:66, C*06:67, C*06:68, C*07:210, C*18:05
	A	C*06:44; C*07:01:01~01:13/01:15~01:24/06~07/09/16/18~22/24/28/30/35~36/40/44/52~53/55N/57~60/65/69~71/73/77~78/81~83/86/89/91/93~95/98N/103~104N/106/108~113/115~116/118~120/122/124/128~129/131/134/140~141/148/150Q~151/153/156/162~166/170/173/176/179~180/182/188~191N/196~197/200~201/203~207/210/212/214~215/219; C*15:23; C*18:05 B*08:15; C*03:39/67; C*06:11; C*07:01:01~01:13/01:15~06/08/10~25/27:01~32N/35~48/50~63/65~75/77~91/93~95/97~123/125~131/133~138/140~154/156~209/211~220; C*08:37; C*12:16; C*16:21	6---D9	66-Y-RQ70	200	8A	96	26	0	0	70	1	New: C*07:01:17, C*07:01:18, C*07:01:19, C*07:01:20, C*07:01:21, C*07:01:22, C*07:01:23, C*07:01:24, C*07:02:24, C*07:02:25, C*07:02:26, C*07:02:27, C*07:02:28, C*07:02:29, C*07:04:05, C*07:04:06, C*07:04:07, C*07:172, C*07:173, C*07:174, C*07:175, C*07:176, C*07:177, C*07:178, C*07:179, C*07:180, C*07:181, C*07:182, C*07:183, C*07:184, C*07:185, C*07:186, C*07:187, C*07:188, C*07:189, C*07:190, C*07:191N, C*07:192, C*07:193, C*07:194, C*07:195, C*07:196, C*07:197, C*07:198N, C*07:199, C*07:200, C*07:201, C*07:202, C*07:203, C*07:204, C*07:205, C*07:206, C*07:207, C*07:208, C*07:209, C*07:210, C*07:211, C*07:212, C*07:213, C*07:214, C*07:215, C*07:216, C*07:217, C*07:218, C*07:219, C*07:220, C*18:05
9	H	C*01:43; C*07:101/148/161; C*08:01:01~09/11~12/14~15:02/17/19~24/26N~54/56	35Q35	77S-RN80	150	9H	96	10	0	0	86	1	Changes: C*08:33=C*08:33:01 New: C*08:01:05, C*08:02:06, C*08:02:07, C*08:33:02, C*08:47, C*08:48, C*08:49, C*08:50, C*08:51, C*08:52N, C*08:53, C*08:54, C*08:56

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
9	G	B*15:44/50/69/93/121/199; B*18:15/19/30; B*46:03/29; B*55:14; B*56:32; C*01:04/21/54; C*02:43; C*03:16; C*04:54; C*05:04; C*06:02:01:01~07/10~30/32~33/35~69; C*07:165; C*12:02:01~13/16~30/32~68; C*14:02:01~14/16/18~19/21N~23/27~34; C*15:04/09/19~20/27/30; C*16:40	116S116	[152E152 + 161-T163]	150	9G	96	33	0	0	63	1	New: B*46:29, B*56:32, C*01:54, C*06:02:12, C*06:02:13, C*06:02:14, C*06:02:15, C*06:02:16, C*06:02:17, C*06:02:18, C*06:02:19, C*06:59, C*06:60, C*06:61, C*06:62, C*06:63, C*06:64, C*06:65, C*06:66, C*06:67, C*06:68, C*06:69, C*12:02:07, C*12:03:16, C*12:03:17, C*12:03:18, C*12:03:19, C*12:03:20, C*12:52, C*12:53, C*12:54, C*12:55, C*12:56, C*12:57, C*12:58, C*12:59, C*12:60, C*12:61, C*12:62, C*12:63, C*12:64, C*12:65, C*12:66, C*12:67, C*12:68, C*14:02:08, C*14:02:09, C*14:30, C*14:31, C*14:32, C*14:33, C*14:34, C*16:40
	F	B*07:13/15; B*67:02; C*01:17/21/23; C*02:12/49/55; C*03:15/27/38:01~38:02/69/130/136; C*04:01:01:01~01:20/01:22~09N/13~35/37~54/57~107; C*05:42/46; C*06:17; C*07:01:01~01:12/01:14~02:07/02:09~02:28/03/05~10/13~38/41~44/46~62/64~67/69~100/102~104N/106~123/125~138/140~141/143~151/153~154/157~176/178~180/182~188/190~198N/200~209/211~220; C*08:05/21/25; C*12:02:01~03:08/03:10~04:02/06~08/10:01~16/18~20/22~32/34~48/50~68; C*14:04; C*15:03/16/25; C*16:15:01~15:02/25; C*17:01:01:01~11; C*18:05	47-47	73A-V-77	100	9F	96	54	0	0	42	1	New: C*02:49, C*02:55, C*03:130, C*03:136, C*04:01:27, C*04:01:28, C*04:01:29, C*04:01:30, C*04:01:31, C*04:01:32, C*04:01:33, C*04:01:34, C*04:01:35, C*04:01:36, C*04:85, C*04:86, C*04:87, C*04:88N, C*04:89, C*04:90, C*04:91, C*04:92, C*04:93N, C*04:94:01, C*04:94:02, C*04:95N, C*04:96, C*04:97, C*04:98, C*04:99, C*04:100, C*04:101, C*04:102, C*04:103, C*04:104, C*04:105N, C*04:106, C*04:107, C*07:01:17, C*07:01:18, C*07:01:19, C*07:01:20, C*07:01:21, C*07:01:22, C*07:01:23, C*07:01:24, C*07:02:24, C*07:02:25, C*07:02:26, C*07:02:27, C*07:02:28, C*07:172, C*07:173, C*07:174, C*07:175, C*07:176, C*07:178, C*07:179, C*07:180, C*07:182, C*07:183, C*07:184, C*07:185, C*07:186, C*07:187, C*07:188, C*07:190, C*07:191N, C*07:192, C*07:193, C*07:194, C*07:195, C*07:196, C*07:197, C*07:198N, C*07:200, C*07:201, C*07:202, C*07:203, C*07:204, C*07:205, C*07:206, C*07:207, C*07:208, C*07:209, C*07:211, C*07:212, C*07:213, C*07:214, C*07:215, C*07:216, C*07:217, C*07:218, C*07:219, C*07:220, C*12:02:07, C*12:03:16, C*12:03:17, C*12:03:18, C*12:03:19, C*12:03:20, C*12:52, C*12:53, C*12:54, C*12:55, C*12:56, C*12:57, C*12:58, C*12:59, C*12:60, C*12:61, C*12:62, C*12:63, C*12:64, C*12:65, C*12:66, C*12:67, C*12:68, C*17:01:06, C*17:01:07, C*17:09, C*17:10, C*17:11, C*18:05
	E	C*04:11/29/36/55; C*07:64; C*12:55; C*14:02:01~03/05~11/13~33	9S9	77S-RN80	250	9E	96	5	0	0	91	1	New: C*12:55, C*14:02:08, C*14:02:09, C*14:30, C*14:31, C*14:32, C*14:33
	D	C*05:36; C*12:08; C*15:02:01~06:01/06:03~10:02/12~15/18~19/21~24/26/28~42/44~56	43P43	66-Y67	100	9D	96	7	0	0	89	1	New: C*15:05:06, C*15:49, C*15:50, C*15:51, C*15:52, C*15:53, C*15:54, C*15:55, C*15:56

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
9	C	DRB1*01:01:01~01:14/01:16~02:08/04~05/07~08/11/13~14/17~21/24~28/30~32/34~38/40N~41/43~45	11----14	70----73	200	9C	96	9	0	0	87	1	New: DRB1*01:01:19, DRB1*01:01:20, DRB1*01:02:06, DRB1*01:02:07, DRB1*01:02:08, DRB1*01:35, DRB1*01:36, DRB1*01:37, DRB1*01:38, DRB1*01:40N, DRB1*01:41, DRB1*01:43, DRB1*01:44, DRB1*01:45
	B	DRB1*15:01:01~01:16/19~20/22~24/26/29~33/35~49/51~53/55~65/67~68	11P-R13	68--69 / 69-DE71	200	9B	96	18	0	0	78	1	New: DRB1*15:01:01:03, DRB1*15:01:01:04, DRB1*15:01:13, DRB1*15:01:14, DRB1*15:01:15, DRB1*15:01:16, DRB1*15:01:17, DRB1*15:03:02, DRB1*15:53, DRB1*15:55, DRB1*15:56, DRB1*15:57, DRB1*15:58, DRB1*15:59, DRB1*15:60, DRB1*15:61, DRB1*15:62, DRB1*15:63, DRB1*15:64, DRB1*15:65, DRB1*15:67, DRB1*15:68
	A	DRB1*15:07/11/34; DRB1*16:01:01~08/11/13N~19	11P-R13	47--48	150	9A	96	5	0	0	91	1	New: DRB1*16:19
10	H	DRB1*03:01:01:01~01:05/01:07~01:08/01:10~01:11/01:13~01:19/04:01/05:01~06/09~11:02/13:01~16/18~20/22~23/25~26/28/30~34/36~37/39/42~45/47~48/50~52/55~58/60~63/66/68N~73/75~77; DRB1*13:27/41/71/129; DRB1*14:82/95; DRB3*01:07/15	25-Y26	57----60 / 57A--H60	125	10H	96	10	0	0	86	1	Changes: DRB1*03:04=DRB1*03:04:01 New: DRB1*03:01:13, DRB1*03:01:14, DRB1*03:01:15, DRB1*03:01:16, DRB1*03:01:17, DRB1*03:01:18, DRB1*03:01:19, DRB1*03:61, DRB1*03:62, DRB1*03:63, DRB1*03:66, DRB1*03:68N, DRB1*03:69, DRB1*03:70, DRB1*03:71, DRB1*03:72, DRB1*03:73, DRB1*03:75, DRB1*03:76, DRB1*03:77, DRB1*13:129, DRB3*01:15
	G	DRB1*03:49; DRB1*04:01:01~05:10/05:12~51/53~62/64~107; DRB1*08:38; DRB1*11:102:01~102:02	32-H33	87-87	200	10G	96	19	0	0	77	1	Changes: DRB1*04:02=DRB1*04:02:01, DRB1*04:10=DRB1*04:10:01, DRB1*11:102=DRB1*11:102:01 New: DRB1*04:01:07, DRB1*04:01:08, DRB1*04:02:02, DRB1*04:02:03, DRB1*04:03:06, DRB1*04:03:07, DRB1*04:04:06, DRB1*04:05:12, DRB1*04:05:13, DRB1*04:06:05, DRB1*04:10:02, DRB1*04:96, DRB1*04:97, DRB1*04:98:01, DRB1*04:98:02, DRB1*04:99, DRB1*04:100, DRB1*04:101, DRB1*04:102, DRB1*04:103, DRB1*04:104, DRB1*04:105, DRB1*04:106, DRB1*04:107, DRB1*11:102:02

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot#006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New
							TP	FN	FP	TN		
10	F DRB1*03:08/65; DRB1*11:01:01~21/23~30/32/34/36~37:02/39~51/53~64/66/68~95/97~115/117~119/121; DRB3*02:18	12TS13 / 12TG---16 / 9EL10	58E--60	175	10F	96	13	0	0	83	1	Changes: DRB1*11:37=DRB1*11:37:01, DRB1*11:49=DRB1*11:49:01, DRB1*11:74=DRB1*11:74:01, DRB1*11:102=DRB1*11:102:01 New: DRB1*03:65, DRB1*11:01:13, DRB1*11:01:14, DRB1*11:01:15, DRB1*11:01:16, DRB1*11:04:08, DRB1*11:19:03, DRB1*11:27:03, DRB1*11:37:02, DRB1*11:49:02, DRB1*11:74:02, DRB1*11:102:02, DRB1*11:103, DRB1*11:104, DRB1*11:105, DRB1*11:106, DRB1*11:107, DRB1*11:108, DRB1*11:109, DRB1*11:110, DRB1*11:111, DRB1*11:112, DRB1*11:113, DRB1*11:114, DRB1*11:115, DRB1*11:117, DRB1*11:118, DRB1*11:119, DRB1*11:121
	E DRB1*08:32; DRB1*12:01:01~13/15~35; DRB1*14:77	36-LL38 / 36-FL38	70D---74	125	10E	96	7	0	0	89	1	New: DRB1*12:01:04, DRB1*12:27, DRB1*12:28, DRB1*12:29, DRB1*12:30, DRB1*12:31N, DRB1*12:32, DRB1*12:33, DRB1*12:34, DRB1*12:35
	D DRB1*08:20; DRB1*11:01:01~02:02/ 04:01~04:08/06:01~06:02/09~10:02/ 12:01~12:02/14:01~16/18~21/23~25/ 27:01~29/31~33/35/37:01~39/43~51/ 54:01~54:02/56/58:01~58:02/60~62/ 65:01~66/70~75/77~78/80~81/83~84/ 86~88/90~92/94~102:02/104/106/108~ 121; DRB1*13:01:01~01:06/01:08~08/ 10~16/18~19/21:01~23:02/26~28/30~ 42/45~53/55/57~59/61:01~62/64~ 66:02/68~70/72~73/76~77/79~85/87/ 89~102/104~110/112~113N/115/117~ 118/120/122~128/130~132/135; DRB1*14:16/22/25/27/53/63/67/78/105	12TS13	67F--D-71 / 67I--D70	200	10D	97	32	0	0	65	1	Changes: DRB1*11:37=DRB1*11:37:01, DRB1*11:49=DRB1*11:49:01, DRB1*11:74=DRB1*11:74:01, DRB1*11:102=DRB1*11:102:01, DRB1*13:61=DRB1*13:61:01, DRB1*13:96=DRB1*13:96:01 New: DRB1*11:01:13, DRB1*11:01:14, DRB1*11:01:15, DRB1*11:01:16, DRB1*11:04:08, DRB1*11:19:03, DRB1*11:27:03, DRB1*11:37:02, DRB1*11:49:02, DRB1*11:74:02, DRB1*11:102:02, DRB1*11:104, DRB1*11:106, DRB1*11:108, DRB1*11:109, DRB1*11:110, DRB1*11:111, DRB1*11:112, DRB1*11:113, DRB1*11:114, DRB1*11:115, DRB1*11:116, DRB1*11:117, DRB1*11:118, DRB1*11:119, DRB1*11:120, DRB1*11:121, DRB1*13:01:09, DRB1*13:01:10, DRB1*13:02:05, DRB1*13:61:02, DRB1*13:96:02, DRB1*13:115, DRB1*13:117, DRB1*13:118, DRB1*13:120, DRB1*13:122, DRB1*13:123, DRB1*13:124, DRB1*13:125, DRB1*13:126, DRB1*13:127, DRB1*13:128, DRB1*13:129, DRB1*13:130, DRB1*13:131, DRB1*13:132, DRB1*13:135
	DRB1*11:69/82; DRB1*13:09/129; DRB1*14:24/37	12TS13	71A71	225								

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
10	C	DRB1*01:08; DRB1*03:17/40~41/49/75; DRB1*04:01:01~01:02/01:04~03:01/ 03:03/03:05~04:01/04:03~04:05/ 07:01~08:01/13~14/18/22~23/25/27/ 31~39/42~44/47/50~56/58~60/63~64/ 66/70~72:02/74~76/79/88/92~98:02/ 100~101; DRB1*08:02:01~02:04/04:01~ 04:05/04:07/13/20/24/28/30:01/ 30:03/44~45; DRB1*13:07:01/11:01/ 14:01/14:03/17/22~25/37/44/47/70/ 82/86/116; DRB1*14:42/102/116	33H--35 / 33---Y37 / 33H---Y37	57--58	100	10C	96	22	0	0	74	1	Changes: DRB1*04:02=DRB1*04:02:01 New: DRB1*03:75, DRB1*04:01:07, DRB1*04:01:08, DRB1*04:02:02, DRB1*04:02:03, DRB1*04:03:06, DRB1*04:03:07, DRB1*04:96, DRB1*04:97, DRB1*04:98:01, DRB1*04:98:02, DRB1*04:100, DRB1*04:101, DRB1*08:02:04, DRB1*08:04:07, DRB1*08:30:03, DRB1*08:44, DRB1*08:45, DRB1*13:116, DRB1*14:116
		DRB1*13:17/116	13G--Y16	69-DE71	325	10B	96	2	0	0	94	1	New: DRB1*03:65, DRB1*11:14, DRB1*13:116, DRB1*13:135
	B	DRB1*08:31/41; DRB1*11:67; DRB1*12:04; DRB1*14:11	13G--Y16	58E--60	275								
		DRB1*11:59; DRB1*13:27/41/71	25-Y26	69-DE71	150								
	DRB1*03:08/65; DRB1*11:59/80/83/87	25-Y26	58E--60	125									
	DRB1*13:08/19/57/64/72/76/83/107/ 135; DRB1*14:16/57	34---F37	69-DE71	125									
	DRB1*11:10:01~10:02/12:01~13:02/17/ 52/114; DRB1*14:11	34---F37	58E--60	100									
A	DRB1*14:03:01~03:02/12:01~12:02/27/ 40/63/67/77~78/85/89/102/115	26F--28	74L-75	175	10A	96	4	0	0	92	1	New: DRB1*14:115	
	DRB1*14:24	26F--28	71A71	150									
11	H	DRB1*14:02/06:01~06:02/09/13/17/20/ 29~30/33/41/46~49/51~52/80/83/106/ 108/119	34---(F/N)37	69---71	125	11H	96	0	0	0	96	NA	New: DRB1*03:76, DRB1*13:119, DRB1*14:44:03, DRB1*14:110, DRB1*14:112, DRB1*14:113, DRB1*14:114, DRB1*14:115, DRB1*14:117, DRB1*14:118, DRB1*14:119, DRB1*14:120, DRB1*14:122
		DRB1*03:76; DRB1*08:09/21/35; DRB1*11:17/52; DRB1*13:18/76/119; DRB1*14:01:01~01:02/03:01~05:03/ 07:01~08/10~12:02/14~15/18~19/21/ 23:01~23:03/26~28/33/35~36/39~40/ 43~45/51/54~56/59~64/67~68/70~73/ 75/77~78/82/84~86/88~90/95~96/99/ 101/103/106/109~110/112~115/117~ 118/120/122	34---(F/N)37	70-K--73	150								
	G	DRB1*07:01:01:01~10N/12~22	28--L30 / 29S29 / 28-- F30	78V78 / 77N--80	175	11G	96	19	0	0	77	1	New: DRB1*07:01:04, DRB1*07:22
	F	DRB1*08:01:01~04:05/04:07~06/09~10/ 12~14/16~18/21~24/26~30:01/30:03/ 32~33/35~40/42~49; DRB1*12:09; DRB1*13:17/116; DRB1*14:15/52	13G--Y16	57S57 / 57--58	150	11F	96	12	0	0	84	1	New: DRB1*08:02:04, DRB1*08:03:03, DRB1*08:04:07, DRB1*08:30:03, DRB1*08:43, DRB1*08:44, DRB1*08:45, DRB1*08:46, DRB1*08:47, DRB1*08:48, DRB1*08:49, DRB1*13:116
		DRB1*08:14/21; DRB1*13:103	9EYSR12 / 12M12	57S57 / 57--58	175								
		DRB1*08:01:01~04:07/06~17/19/21~23/ 26~28/30:01~30:03/32~39/42~46/48~ 49; DRB1*11:67; DRB1*14:15	13G--Y16	74L-75	200								
	E	DRB1*08:14/21	9EYSR12 / 12M12	74L-75	225								
E	DRB1*09:01:02~09/11~14/16	28H-G30	74E--76	175	11E	96	5	0	0	91	1	New: DRB1*09:12, DRB1*09:13, DRB1*09:14, DRB1*09:16	
D	DRB1*10:01:01~04	29-RV31	87-87	200	11D	96	4	0	0	92	1	New: DRB1*10:04	

Tray Pos.	Alleles Specificity	5' Recognition Site	3' Recognition Site	Approx. Size (bp)	Prev. Loc. Lot #006	No. Test	Number of				R Value	Revision Information Specificity Changes: Added(+), Removed(-), Deleted Seq(x) or New	
							TP	FN	FP	TN			
11	C	DRB1*09:07; DRB5*01:01:01~14; DRB5*02:02~05	11D-Y13	87-87	250	11C	96	26	0	0	70	1	
	B	DRB1*03:42; DRB3*01:01:02:01~13/15; DRB3*02:01~25/28; DRB3*03:01:01~03	8-EL10 / 7-SEL10 / 7-- QL10	69--K-72	200	11B	96	70	0	0	26	1	Changes: DRB3*02:02:01=DRB3*02:02:01: 01 New: DRB3*01:15, DRB3*02:02:01:02, DRB3*02:28
	A	DRB4*01:01:01:01~07	26N-I28	87-87	200	11A	96	39	0	0	57	1	New: DRB4*01:03:01:03
12	H	DRB1*03:01:01:01~01:05/01:07~01:08/ 01:10~07/09~41/43~45/47~58/60~63/ 66~77; DRB1*08:20; DRB1*13:01:01~16/ 18~66:02/68~102/104~115/117~121/ 123~135; DRB1*14:01:01~03:02/05:01~ 09/12:01~14/16~23:01/23:03~27/29~ 30/32:01~45/47~49/51/53~56/58~60/ 62~67/69~70/74~75/77~78/80~92N/94~ 100/102~106/108~119/121~122; DRB3*01:14	12TS13 / 10YPTS13	58--59 / 58--S-61	175	12H	96	47	0	0	49	1	Changes: DRB1*03:04=DRB1*03:04:01, DRB1*13:61=DRB1*13:61:01, DRB1*13:96=DRB1*13:96:01 New: DRB1*03:01:12, DRB1*03:01:13, DRB1*03:01:14, DRB1*03:01:15, DRB1*03:01:16, DRB1*03:01:17, DRB1*03:01:18, DRB1*03:01:19, DRB1*03:04:02, DRB1*03:61, DRB1*03:62, DRB1*03:63, DRB1*03:66, DRB1*03:67N, DRB1*03:68N, DRB1*03:69, DRB1*03:70, DRB1*03:71, DRB1*03:72, DRB1*03:73, DRB1*03:74, DRB1*03:75, DRB1*03:76, DRB1*03:77, DRB1*13:01:09, DRB1*13:01:10, DRB1*13:02:05, DRB1*13:61:02, DRB1*13:96:02, DRB1*13:114, DRB1*13:115, DRB1*13:117, DRB1*13:118, DRB1*13:119, DRB1*13:120, DRB1*13:121, DRB1*13:123, DRB1*13:124, DRB1*13:125, DRB1*13:126, DRB1*13:127, DRB1*13:128, DRB1*13:129, DRB1*13:130, DRB1*13:131, DRB1*13:132, DRB1*13:133, DRB1*13:134, DRB1*13:135, DRB1*14:44:03, DRB1*14:110, DRB1*14:111, DRB1*14:112, DRB1*14:113, DRB1*14:114, DRB1*14:115, DRB1*14:116, DRB1*14:117, DRB1*14:118, DRB1*14:119, DRB1*14:121, DRB1*14:122
	G	DQB1*05:01:01:01~14	23----26	87---89	225	12G	96	44	0	0	52	1	Changes: DQB1*05:01:01=DQB1*05:01:01: .01, DQB1*05:03:01=DQB1*05:03:01: .01 New: DQB1*05:01:01:02, DQB1*05:03:01:02, DQB1*05:03:05, DQB1*05:12, DQB1*05:13, DQB1*05:14
	F	DQB1*06:01:01~19/21~22/24~47	26Y26 / 26L26	87F--89 / 86G-87	225	12F	96	30	0	0	66	1	New: DQB1*06:44, DQB1*06:47
	E	DQB1*02:01:01~06	28S-S30	86EL87	200	12E	96	26	0	0	70	1	
	D	DQB1*03:01:01:01~01:06/04/09~10/13~ 14/16/19/21~22/24/27~29/35~36	25-Y26	86EL87	225	12D	96	39	0	0	57	1	Changes: DQB1*03:01:01=DQB1*03:01:01: .01 New: DQB1*03:01:01:02, DQB1*03:01:01:03
	C	DQB1*03:02:01~02:05/05:01~05:04/07~ 08/11/32/37; DQB1*06:29	25-L--28 / 25----28	57A57	125	12C	96	14	0	0	82	1	New: DQB1*03:37
	B	DQB1*03:03:02:01~03:04/06/12/15/20/ 25~26/30~31/33~34/38~39; DQB1*04:03:01~03:02	25-L--28	57D57	125	12B	92	9	0	0	83	1	Changes: DQB1*03:03:02=DQB1*03:03:02: .01 New: DQB1*03:03:02:02, DQB1*03:03:02:03, DQB1*03:03:04, DQB1*03:38, DQB1*03:39
	A	DQB1*04:01:01~02:01/03:01/04~08	21-21	77T-78	200	12A	96	12	0	0	84	1	