



Mix	5'Primer *	3'Primer *	Größe/ Size (bp)	Spezifität / Specificity DRB1*
1	42 GAA	199 GAG 211 CGC	200 / 210	01:01:01-02:08,04-22,25-33N,34-38,40N,41,43-50,52N,53,55-59 <i>(Mix zeigt manchmal eine schwache unspezifische Bande bei &lt; 75bp / Mix shows sometimes a weak unspecific band at &lt; 75bp)</i>
2	42 GAA	199 GAT	200	01:03,39N,42
3	39 AGG	207 TCT 211 CGC	210	15:01:01-01-09, <b>10</b> ,11-17N,18-20,22-24,26,29-33,35-46w,47-49,51-53,55-65,67-79,81-83,85-98
4	39 AGG	199 GAG 199 GAA 210 CTG	200 / 210	16:01:01-05:02,07-11,13N-21N,22-24
5	38 GTC	218 GGC	220	03:01:01:01-10, <b>11:01,11:02,12-16,17,18-23,24,25,26,27,28-41,43-67N,68N-75,77-80,82,83,86,88-91,93 / 11:07,<b>53</b>,103,105,107,125,136 / 14:104w,111w / DRB3*01:14</b>
6	84 GAG	218 GGC 172 GAG	175 80	03:02:01,02:02,03,29,38,53,74,88,90 / DRB3*02:22 03:08,65 / 11:07,103,105,107,125
7	97 GTC	257 CAC 257 CCA	200	04:01:01-05:11w,05:13-62,64-81N,82-94N,95-109,111-119N,120N-142N,143-157N,158N-160,162,163 / 03:49 / 08:38 / 11:102:01,102:02
8	40 ATA	257 CAC	260	07:01:01:01-01:07,03-10N,11-19,21,23,25,26N
9	46 GTT	220 CAG 257 CAC  173 CCT	215 250 215+250 170 170+215	08:04:01-04:07,06,10,12,22,28,39,54 / 14:15 08:05,18,24,25,29,40,41,43,47 / 12:16:01,16:02,22,39 / 14:68,93 08:01:01-03:03,07-09,11,13-17,19,21,23,26,27,30:01-30:03,32-38,42,44-46,48-53 <b>08:31,41 / 12:04 / 14:11</b> 11:67
10	82 TGC	180 CAG	140	09:01:02-20
11	91 GCG	257 CAC 257 CCA	205	10:01:01-01:04,03-06 10:02
12	32 GCT 38 GTC 38 ACA 46 GTC	173 CCT	170 / 180	03:08,65 / 04:15,61,138,145,154 / 11:01:01-29, <b>30</b> ,31-66,68-70,72-147 / DRB3*02:18
13	174 GAG 178 AGC	211 CTC 218 GGC 220 CAG	80	03:08, <b>10,65</b> / 04:138 / 08:08,15 / 11:02:01-03,07,11:01,11:02,14:01,14:02,16,20,21,23:01,23:02,25,36,40,41, 45,48,53,59,63-65:02, 67,68,70,76,85,86,103,105,107,118,119,122,124,125,127,136,138,139 / <b>13:43,45,159 / 14:16,55,79,104w,107w,111w / DRB3*02:16,18</b>
14	88 GAC	210 CTG	165	*12:01:01-24N,25,26,28-31N,32w-40w
15	29 GCT 38 GTC 174 GCC	199 GAT	210 / 200  65 + 200  65	11:02:01,02:02,14:01,14:02,16,18-21,31,45,48,65:01,65:02,70,73,86,98,118,119,124,127,132 / 13:01:05,03:01-04,12:01-13,30-34,38,45,48,58,65-66:02, <b>67,72,77,81,89,90,93-95,101,113N,115,118,120,122,127,133,139,151,152,154,159, 161,162 / 14:16,63,78</b> 13:01:01-01:04,01:06-02:08,06,08,10,15,16,19,22-23:02,27,28,35-37,39-41,51-53,57,59,61:01,61:02,64,68-70,73,74, 76,79,80,82-85,87,91,92,96:01,96:02w-99,102-107,109,110w,112,117,121,123-126,128,130,131,135,137N,138, 140w-142N,143,145-148,153,155-157,160,163 / 14:67 01:03,39N,42 / 04:02:01-02:03,14,18,124,133,134,161 / 08:30:01,30:03,45 / 12:09 / 13:17,116
16	38 GTC	169 GCT 170 CGA 171 GCG 211 CGC	170 / 215	03:01:12,04:02,12, <b>38,79 / 11:69,82 / 13:01:05,02:03,03:01-04,07:02,09,11:02,12:01-13,14:02,21:01,21:02,26:01,30,31,32,33:01-33:03,38,46,48,49,54,55,58,60,65,66:01,66:02,75,77,81,88-90,93-95,100,101,108,115,118,120,122,129,133,134,139,151,152,154,161,162,164 / 14:13,23:04,24,37,48,63,65,78,85 / DRB3*01:14</b>
17	38 GTC	209 TCT 210 TTC 211 CGC 220 CAG	200 / 210	03:76 / 08:20 / 11:23:01,23:02,25,26,34,45,55,64,69,79,82,119,131 / 13:09,13,18,44,47,55,86,129,144,146,154, 156,158,164 / 14:02-03:02,06:01,06:02,09,12-13,17,19-21,24,27,29,30,33,37,40,41,47-49,51,55,63,67,77,78,80,83-85,89,94,98w,102,106,108,109,115,116,119,121,135-137N
18	174 GCC	211 CTC 211 CCT	80	01:01:01-15,01:17,01:19-02:03,02:05,02:06,02:08,03-05,07,08,11,12w,13,17-23w,24-33N,34-39N,40N-52N,53,54, 57-59 / 04:02:01-02:03,03:01,03:03,03:05-03:08,04:01,04:03-04:05,04:08,06:01-07:01,07:03,07:04,08:01,14,18-20, 23,25,27,31,32, 36,37,39,41-44,46,47,49-56,58-60,68,70,71,74,78,79,85,88,92-94N,95,96,101,102,108w-110,118, 120N,121,124,129,132-134,142N-144,148,149,157N,160,161,163 / 08:02:01-02:04, 04:01-04:05,04:07,09,13,20,21, 24,28,30:01,30:03,42,44,45 / 09:02:02 / 10:01:01-04,06 / 12:09 / 13:01:01-01:04,01:07-02:02,02:04-02:08,05:01-07:01,08,11:01,14:01,14:03,15-20,22-25,26:02-29,34-36,39-42,44,47,50:01-53,56,57,59,61:01-64,67-71,73,74,76,78-80,82-84,86,87,91,92,96:01-99,102-107,109,110w-113N,114,116,117,119,121,123-126,128,130-132,135,136,138, 140-142N,143-150,153,155-158,160,163 / 14:02-03:02,05:02,06:01,06:02,09,12:01,12:02,14,15,17,20,23:01,27,29, 30,33,36,40-42,46, 47,51,52,59,64,67,72,77,80,81,83,84,89,94,95,98,102,106,108,115,116,121,123,126,134,135 / 16:01:05 <b>Achtung: Kontrollbande kleiner: 434 bp !!! / Control band in mix 18 is smaller: 434 bp !!</b>
19	38 GTC	140 GGA 199 GAA	145  200 145+200	03:01:01-01:22,04:01-05:03,07-15,18-25,28-30,32-34,36,37,39,40,43-52,54-59,61-67N,68N-73,76-79,82w-84,86, 89,91,93 / 11:02:01,02:02,07-08:02,13:01-14:02,16,18-21,26,31,34,36,42,45,53,57,64,65:01,65:02,68-70,73,79,82, 86,89,98,103,105, 122,124,125,127,130-132,136,138,139 / 13:01:01-01:09w,01:10-02:08,04,06,09,10,15,16,20,22-23:02,25,27-31,34,39,41,43-45,51,52,56,57,59,61:01,61:02,64,66:01,66:02,68,69,71,73,74,77-79,82,83,86,87,91-93, 96:01-99,102,103w-107,109,110, 112,113N,114,117,119,121,123-131,137N-142N,143,145-148,153-157,160w,162, 163 / 14:17,21,30,33,42,53,64,65,72,95, 132,134 08:20 / 11:37:01,37:02,50,56,83,88,145 / 13:07:01,07:02,26:01,26:02,47,49,55,108,164 / 14:22,25,27,105 11:01:01-01:19,03-04:11,06:01-06:03,09-12:02,15,23:01-25,27:01-29,32,33,35,38-40,43,44,46:01-47,49:01,49:02,51, 54:01-55,58:01-63,66,72,74:01-78,80,81,84:01-85,87,90-97,99-102:02,104,106,108-121,123,126,128,129,133-135, 137,140-144,146,147 / 13:05:01,05:02,11:01,11:02,14:01-14:03,18,21:01,21:02,24,42,46,50:01,50:02,54,62,63,75, 100,111,132,136,144,150,158, / 14:35,128
20	35 TAC 38 ACA	209 TCC	215	04:24,69,78,101 / 11:13:01,13:02,17,52,89 / 14:01:01-01:04,04-05:04,07:01-08,10,11,14,18,23:01-23:04,26,28,31-32:02,34-36,38,39,42-45,50,54:01,54:02,56,58-62,64,65,68,70-72,75,81,82,86-88,90-92N,93,95-97,99-101,103,110,112-114,117,118,120,122-127:02,129-134,138-140,142
21	38 GTC	173 CCG  209 TCT	175  210	03:01:06w,10 / 13:43,45,159 / 14:01:01-01:04,07:01-08,16,22,23:02w,25,26,32:01-32:03,34,35,38,49,53-55,58,60, 62,69,70,74,75,82,86-88,90,92N,97,99,101w,104,105,110-114,117-119,122,124,125,128,129,131-133,137N,139, 140,142 11:26,34 / 13:44,86 / 14:02,06:01,06:02,09,13,17,20,29,30,33,41,47,48,51,80,83,89,94,106,108,109w,119,121
22	109 AGA 110 GTT	173 CCG 209 TCT 211 CGC 220 CAG	105 / 140 / 150	<b>03:01:06 / 07:06 / 08:09,21,35 / 13:09,18,129,144,146,156,158 / 14:02-03:02,06:01,06:02,09,12-13,15,17,19,20,21,23:02,24,27,29,30,33,37,40,41,46-48,49,51,52,55,57,63,67,75,77,78,80,83-90,92Nw,93,99,101,104-109w,110-115,117-121,135,136 / 15:32</b>
23	29 GCT	230 AAT	240	DRB3*01:01:02-01-13,15 / *02:01,02:01:01,02:01:02,02:03-02:05,03,05-14,16-26,28,29N / *03:01:01-03 (DR52) / DRB1*14:141
24	38 GTA 126 AGT	174 TCA	90 175	a) DRB4*01:01:01-01-08 / *02:01N (DR53) b) DRB5*01:01:01-08N,09,10N,11,14 / *02:02-06 (DR51)

- kursiv gedruckte Allele: Die positiven Reaktionen konnten nicht experimentell überprüft werden. / Alleles in italics: positive reactions were not verified experimentally.
- Die folgenden Allele werden nicht erkannt: / The following alleles cannot be detected:  
DRB1\*01:24:02 / \*03:42,87,92 / \*04:63 / \*07:20,22,24 / \*12:27 / \*14:73,76 / \*15:21,25,27,28,34,50N,54,66,80N,84 / \*16:12 / DRB3\*02:02:02,04,15,27 / DRB4\*03:01N / DRB5\*01:12,13



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