

Frq.	Allel / Allele	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
x	A*24:02:01:01(A24) 03:01:01(A2403) 04/ 05:01/ 06/ 07:01:01/ 08(A24) 10:01:01(A2403) 14:01:01/ 17:01:01/ 20:01:01(A24) 22(A9) 23(A2403) 25(A24)																									
	A*24:02:01:03/ 02:01:04/ 02:01:05/ 02:01:06/ 02:01:07/ 02:01:08/ 02:01:09/ 02:01:10/ 02:01:11/ 02:01:12/ 02:01:13/ 02:01:14/ 02:01:15/ 02:01:16(A24) 02:01:17/ 02:01:18/ 02:01:19/ 02:01:20/ 02:01:21/ 02:01:22/ 02:01:23/ 02:01:25/ 02:01:26/ 02:01:27/ 02:01:28/ 02:01:29/ 02:01:30/ 02:01:31/ 02:01:32/ 02:01:33/ 02:01:34/ 02:01:35/ 02:01:36/ 02:01:37/ 02:01:38/ 02:01:39/ 02:01:40/ 02:01:41/ 02:01:42/ 02:01:43/ 02:01:44/ 02:01:45/ 02:01:46/ 02:01:47/ 02:01:48/ 02:01:49/ 02:01:50/ 02:01:51/ 02:01:52/ 02:01:53/ 02:01:54/ 02:01:55/ 02:01:56/ 02:01:57/ 02:01:58/ 02:01:59/ 02:01:60/ 02:01:61/ 02:01:62/ 02:01:63/ 02:01:64/ 02:01:65/ 02:01:66/ 02:01:67/ 02:01:68/ 02:01:69/ 02:01:70/ 02:01:71/ 02:01:72/ 02:01:73/ 02:01:74/ 02:01:75/ 02:01:76/ 02:01:77/ 02:01:78/ 02:01:79/ 02:01:80/ 02:01:81/ 02:01:82/ 02:01:83/ 02:01:84/ 02:01:85/ 02:02(A24) 02:03/ 02:04/ 02:05/ 02:06/ 02:07/ 02:08/ 02:09/ 02:10/ 02:11/ 02:12/ 02:13/ 02:14/ 02:15/ 02:16/ 02:17/ 02:18/ 02:19/ 02:20/ 02:21/ 02:22/ 02:23/ 02:24/ 02:25/ 02:26/ 02:27/ 02:28/ 02:29/ 02:30/ 02:31/ 02:32/ 02:33/ 02:34/ 02:35/ 02:36/ 02:37/ 02:38/ 02:39/ 02:40/ 02:41/ 02:42/ 02:43/ 02:44/ 02:45/ 02:46/ 02:47/ 02:48/ 02:49/ 02:50/ 02:51/ 02:52/ 02:53/ 02:54/ 02:55/ 02:56/ 02:57/ 02:58/ 02:59/ 02:60/ 02:61/ 02:62/ 02:63/ 02:64/ 02:65/ 02:66/ 02:67/ 02:68/ 02:69/ 02:70/ 02:71/ 02:72/ 02:73/ 02:74/ 02:75/ 02:76/ 02:77/ 02:78/ 02:79/ 02:80/ 02:81/ 02:82/ 02:83/ 02:84/ 02:85/ 02:86/ 02:87/ 02:88/ 02:89/ 02:90/ 02:91/ 02:92/ 02:93/ 02:94/ 02:95/ 02:96/ 02:97/ 02:98/ 02:99(A24) 03:01/ 02/ 03:01:03/ 03:02/ 03:03/ 03:04(A2403) 05:02/ 07:01:02/ 07:01:03/ 07:02/ 07:03/ 07:04(A24) 09N(Null) 10:01:02/ 10:02(A2403) 10:01/ 10:2/ 10:3/ 10:4/ 10:5/ 10:6/ 10:7/ 10:8/ 10:9/ 11/ 11:2/ 11:3/ 11:4/ 11:5/ 11:6/ 11:7/ 11:8/ 11:9(A24) 11N(Null) 12/ 12:1/ 12:2/ 12:3/ 12:4/ 12:5/ 12:6/ 12:7/ 12:8/ 12:9/ 13:01/ 13:02/ 13:03/ 13:1(A24) 13:2N(Null) 13:3/ 13:4/ 13:5/ 01/ 13:5:02/ 13:6/ 13:7/ 13:8/ 13:9/ 14:01:02/ 14:01:03/ 14:01:04/ 14:01:05/ 14:01:06/ 14:01:07/ 14:01:08/ 14:01:09/ 14:01:10/ 14:01:11/ 14:01:12/ 01:12/ 01:13/ 01:14/ 01:15/ 01:16/ 01:17/ 01:18/ 01:19/ 01:20/ 03/ 04/ 05/ 07/ 08/ 09/ 10/ 11(A25) 12N(Null) 13/ 14/ 15/ 16/ 17/ 19:01/ 20/ 21/ 22/ 23/ 24/ 25/ 26/ 27/ 01/ 27:01/ 27:02/ 28/ 29/ 30/ 31/ 32/ 33/ 34/ 35/ 37/ 38/ 40/ 41(A25) 42N(Null) 43/ 44/ 45/ 47/ 48(A25) 49N(Null) 51/ 53/ 54/ 55/ 56/ 57/ 58/ 60/ 61/ 62/ 63/ 64/ 66/ 67/ 68(A25) 69N(Null) 70(A25)																									
	A*24:02:01:24/ 02:08/ 17/ 17:19/ 19/ 19:5/ 19:7/ 20:3/ 26:2/ 28:9/ 34:5/ 38:7/ 39:4/ 71/ 8:5/ 99(A24)																									
	A*24:208:01/ 21:03(A24)																									
	A*24:24/ 39:2(A24)																									
	A*24:290/ 67(A24)																									
	A*24:315/ 71(A24)																									
	A*24:32(A24)																									
x	A*24:33(A2403)																									
	A*24:82(A24)																									
x	A*25:01:01:01/ 02(A25)																									
	A*25:01:01:02/ 01:01:03/ 01:01:04/ 01:01:05/ 01:01:06/ 01:01:07/ 01:02/ 01:03/ 01:04/ 01:05/ 01:06/ 01:07/ 01:08/ 01:09/ 01:10/ 01:11/ 01:12/ 01:13/ 01:14/ 01:15/ 01:16/ 01:17/ 01:18/ 01:19/ 01:20/ 03/ 04/ 05/ 07/ 08/ 09/ 10/ 11(A25) 12N(Null) 13/ 14/ 15/ 16/ 17/ 19:01/ 20/ 21/ 22/ 23/ 24/ 25/ 26/ 27/ 01/ 27:01/ 27:02/ 28/ 29/ 30/ 31/ 32/ 33/ 34/ 35/ 37/ 38/ 40/ 41(A25) 42N(Null) 43/ 44/ 45/ 47/ 48(A25) 49N(Null) 51/ 53/ 54/ 55/ 56/ 57/ 58/ 60/ 61/ 62/ 63/ 64/ 66/ 67/ 68(A25) 69N(Null) 70(A25)																									
	A*25:01:08/ 01:11/ 14/ 18/ 36/ 39/ 46/ 50/ 52/ 56/ 57/ 65(A25)																									
x	A*25:02(A25)																									
	A*25:03/ 30(A25)																									
	A*25:05(A25)																									
	A*25:06/ 36(A25)																									
	A*25:19:02(A25)																									
	A*25:46(A25)																									
	A*25:59(A25)																									
x	A*26:01:01:01/ 02:01/ 03:01:01/ 08:01:01(A26)																									
	A*26:01:01:02(A26) 01:01:03N(Null) 01:01:04/ 01:01:05/ 01:01:06/ 01:01:07/ 01:08/ 01:09/ 01:10/ 01:11/ 01:12/ 01:13/ 01:14/ 01:15/ 01:16/ 01:17/ 01:18/ 01:19/ 01:20/ 01:21/ 01:22/ 01:23/ 01:24/ 01:25/ 01:26/ 01:27/ 01:28/ 01:29/ 01:30/ 01:31/ 01:32/ 01:33/ 01:34/ 01:35/ 01:36/ 01:37/ 01:38/ 01:39/ 01:40/ 01:41/ 01:42/ 01:43/ 01:44/ 01:45/ 01:46/ 01:47/ 01:48/ 01:49/ 01:50/ 01:51/ 01:52/ 01:53/ 01:54/ 01:55/ 01:56/ 01:57/ 01:58/ 01:59/ 01:60/ 01:61/ 01:62/ 01:64/ 01:65/ 02:02/ 03:01:02/ 06/ 08:01:02/ 08:03(A26) 10(A10) 100/ 101/ 102/ 104/ 105/ 106(A26) 107N(Null) 108/ 109/ 110/ 111/ 112/ 113/ 115/ 116/ 117/ 118/ 119(A26) 11N(Null) 12/ 120/ 121/ 122/ 123/ 124/ 125/ 126(A26) 127N(Null) 128/ 129/ 13/ 130/ 131/ 132/ 133/ 134/ 135/ 136/ 137/ 138/ 139/ 14/ 140/ 141/ 142/ 143/ 144(A26) 145N(Null) 146/ 147/ 148/ 149(A26) 15(A10) 150/ 151/ 152/ 153/ 154/ 155/ 156/ 157/ 158/ 159/ 160(A26) 161N(Null) 162/ 163/ 164/ 165(A26) 166Q(Null) 167/ 168/ 169/ 17/ 171/ 172/ 173/ 174/ 175/ 176/ 178/ 179/ 18(A26) 180N(Null) 181/ 182/ 183/ 185/ 186/ 187/ 188/ 189/ 190(A26) 191N(Null) 192/ 194/ 195/ 196/ 197/ 198/ 199/ 20/ 200/ 201(A26) 202N(Null) 203/ 204(A26) 206N(Null) 21/ 23/ 24(A26) 25N(Null) 26(A10) 27/ 28/ 30/ 32/ 33/ 35/ 36/ 37/ 38/ 39/ 40/ 41/ 42/ 43:01/ 43:02/ 45/ 46/ 47/ 48/ 50/ 51/ 52/ 53/ 54/ 55/ 56/ 57/ 58/ 59(A26) 60N(Null) 61/ 62/ 63/ 64/ 65/ 66/ 67/ 68/ 69/ 70(A26) 71N(Null) 74/ 75/ 76/ 77/ 79/ 80/ 81/ 82/ 83/ 84/ 85/ 86/ 87/ 88/ 89/ 90/ 93/ 94/ 95/ 96/ 97/ 98/ 99(A26)																									
	A*26:01:01:35/ 01:63(A26)																									
	A*26:01:21/ 01:23/ 01:27/ 01:38/ 04/ 07:01/ 07:02/ 08:02/ 10:3/ 114/ 147/ 170/ 184/ 19/ 19:3/ 20:5/ 29/ 31/ 34/ 49/ 72/ 73/ 75/ 78/ 84(A26) 92(A10)																									
x	A*26:05(A26)																									
x	A*26:09(A26)																									
	A*26:13(A26)																									
	A*26:16/ 177/ 20(A26)																									
	A*26:19(A26)																									
	A*26:20:5/ 91(A26)																									
	A*26:207(A26)																									
	A*26:22(A26)																									
	A*26:54(A26)																									
x	A*29:01:01:01/ 02:01:01/ 03(A29)																									
	A*29:01:01:02N(Null) 01:01:03/ 01:01:04/ 01:01:05/ 01:01:06/ 01:01:07/ 01:03/ 01:04/ 01:05/ 01:06/ 01:07/ 01:08/ 01:09/ 01:10/ 01:11/ 01:12/ 01:13/ 02:01:02/ 02:01:03/ 02:01:04/ 02:01:05/ 02:01:06/ 02:01:07/ 02:01:08/ 02:01:09/ 02:01:10/ 02:01:11/ 02:01:12/ 02:01:13/ 02:01:14/ 02:01:15/ 02:01:16/ 02:01:17/ 02:01:18/ 02:01:19/ 02:01:20/ 02:01:21/ 02:01:22/ 02:01:23/ 02:01:24/ 02:01:25/ 02:01:26/ 02:01:27/ 02:01:28/ 02:01:29/ 02:01:30/ 04/ 05/ 06/ 07(A29) 08N(Null) 09/ 10:01/ 10:02/ 10:03/ 10:04/ 10:06/ 10:07/ 10:08/ 10:09/ 11/ 11:01/ 11:02/ 11:03/ 11:04/ 11:05/ 11:06/ 11:07/ 11:08/ 11:09/ 12/ 120/ 121/ 122/ 123/ 124/ 125(A29) 126Q(Null) 127/ 128/ 130/ 131/ 132/ 133:01:01/ 133:01:02/ 134/ 135/ 136/ 137/ 138/ 139/ 140/ 141/ 142/ 143/ 144/ 145/ 146/ 15/ 16/ 17/ 20/ 21/ 23/ 24/ 25/ 26/ 27/ 28/ 29/ 30/ 31/ 32/ 33/ 34/ 35/ 36/ 38/ 40/ 41/ 42/ 43/ 44/ 45/ 46/ 47/ 49/ 50/ 52/ 53/ 54/ 55/ 57/ 58/ 59/ 60/ 61/ 62/ 63/ 64/ 65/ 66/ 67/ 68/ 70/ 71/ 72/ 74/ 75/ 76/ 77(A29) 78N(Null) 79/ 80/ 81/ 82/ 83/ 84/ 85/ 86/ 87/ 88/ 90/ 81/ 92/ 93/ 94/ 95/ 96/ 97/ 98/ 99(A29)																									
	A*29:01:02/ 02:16/ 101:01/ 12:9/ 22/ 8:9(A29)																									
	A*29:10:5(A29)																									
	A*29:13(A29)																									
	A*29:14(A29)																									

Frq.	Allel / Allele	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
x	A*66:02(A66)																									
x	A*66:03:01:01(A10)																									
	A*66:03:01:02/ 03:01:03(A10)/ 28N/ 39N(Null)																									
	A*66:05(A26)/ 15(A66)																									
	A*66:09(A66)																									
	A*66:16/ 21/ 25(A66)/ 26G(Null/ A66)/ 34/ 40/ 43(A66)																									
x	A*68:01:01:01/ 02:01:01(A68)																									
	A*68:01:01:02/ 01:01:03/ 01:01:04/ 01:01:05/ 01:01:06/ 01:01:07/ 01:01:08/ 01:01:09/ 01:01:10/ 01:03/ 01:04/ 01:05/ 01:07/ 01:08/ 01:09/ 01:10/ 01:11/ 01:12/ 01:14/ 01:18/ 01:19/ 01:20/ 01:32/ 01:35/ 01:38/ 01:45/ 02:01:02/ 02:01:03/ 02:01:04/ 02:01:05/ 02:01:06/ 02:01:07/ 02:01:08/ 02:01:09/ 02:01:10/ 02:01:11/ 02:01:12/ 02:02/ 02:03/ 02:04/ 02:05/ 02:06/ 02:07/ 02:08/ 02:09/ 02:10/ 02:11/ 02:12/ 02:13/ 02:14/ 02:15/ 02:16/ 08:01:01/ 08:01:02/ A68/ 10(A29)/ 103:01/ 104:02/ 106/ 110/ 119:01(A68)/ 12:02(A28)/ 121:02/ 122/ 124/ 125/ 126/ 127/ 128/ 13:01/ 133/ 135/ 138/ 139/ 141/ 140/ 143/ 147/ 151/ 153/ 154/ 155/ 160/ 163/ 165/ 166/ 169/ 170/ 172/ 174/ 175/ 176/ 177/ 178(A69)/ 182N(Null/ A68)/ 184/ 185/ 186/ 187/ 188(A68)/ 18N(Null/ A68)/ 190/ 191/ 193/ 196/ 198/ 201/ 209/ 21:02/ 21:03/ 211/ 212(A68)/ 213N(Null/ A68)/ 215(A68)/ 216N(Null/ A68)/ 219/ 22/ 223/ 225/ 226/ 231/ 232(A68)/ 236N(Null/ A68)/ 237/ 239/ 242/ 246/ 247/ 25(A68)/ 26(A28)/ 27:01/ 27:02/ 28/ 34/ 35:01:01/ 35:01:02/ 39/ 40/ 42/ 43:01/ 43:02/ 44/ 51/ 53/ 54/ 55:01/ 56/ 58:01(A69)/ 59N(Null/ A68)/ 60/ 62/ 63/ 64/ 66:02/ 67/ 68/ 72/ 74/ 75:02/ 76:02/ 77/ 78/ 79/ 80/ 81/ 82/ 86/ 87/ 88/ 89/ 92(A68)/ 94N(Null/ A68)/ 97(A68)																									
x	A*68:01:02:01/ 03:01:01/ 04:01(A68)																									
	A*68:01:02:02/ 01:02:03/ 01:02:04/ 01:02:05/ 01:02:06/ 01:02:07/ 01:02:08/ 01:02:09/ 01:02:10/ 01:02:11/ 01:02:12/ 01:02:13/ 01:02:14/ 01:02:15/ 01:02:16/ 01:02:17/ 01:02:18/ 01:02:19/ 01:02:20/ 01:02:21/ 01:02:22/ 01:02:23/ 01:06/ 01:13/ 01:15/ 01:16/ 01:17/ 01:21/ 01:22/ 01:23/ 01:24/ 01:25/ 01:26/ 01:27/ 01:29/ 01:30/ 01:31/ 01:33/ 01:34/ 01:37/ 01:39/ 01:40/ 01:41/ 01:42/ 01:43/ 01:44/ 01:46/ 01:47/ 01:48/ 01:49/ 01:50/ 01:52/ 01:53/ 01:54/ 01:55/ 03:01:02/ 03:01:03/ 03:01:04/ 03:01:05/ 03:01:06/ 03:02/ 03:03/ 04:02/ 06/ 07/ 08:02/ 09/ 100/ 101:01/ 101:02/ 102/ 103:02/ 104:01/ 107/ 108/ 109/ 111/ 112:02/ 113:02/ 114/ 115/ 116/ 118/ 119:02(A68)/ 11N(Null/ A68)/ 12:01(A29)/ 120N(Null/ A68)/ 121:01/ 123/ 13:02/ 131/ 132/ 136/ 141(A68)/ 142N(Null/ A68)/ 144/ 146(A68)/ 148N(Null/ A68)/ 149/ 150/ 152/ 156/ 157/ 158(A68)/ 159N(Null/ A68)/ 16/ 162/ 164/ 167/ 168(A68)/ 17:01/ 17:02(A28)/ 171:02N(Null/ A68)/ 173/ 180(A69)/ 181N(Null/ A68)/ 183/ 189/ 19/ 192/ 194/ 195/ 197/ 200/ 202(A68)/ 203N(Null/ A68)/ 204(A68)/ 205N(Null/ A68)/ 206/ 207/ 208/ 21:01(A68)/ 210N(Null/ A68)/ 214/ 217/ 220/ 221/ 222/ 224/ 228/ 229/ 23/ 233/ 234/ 235/ 238/ 24/ 241/ 243/ 244(A68)/ 245N(Null/ A68)/ 248/ 249(A68)/ 251N(Null/ A68)/ 30/ 31/ 32/ 33/ 36/ 37/ 38/ 46/ 47/ 52/ 55:02/ 57/ 58:02/ 65/ 66:01/ 69/ 70/ 71/ 73/ 75:01/ 76:01/ 65/ 90/ 91/ 93/ 95/ 96/ 98/ 99(A68)																									
	A*68:01:28(A68)																									
	A*68:01:36/ 130:02(A68)																									
	A*68:01:51/ 137/ 145/ 179/ 218/ 240/ 41/ 50:02/ 83(A68)																									
x	A*68:05(A68)																									
	A*68:105/ 83(A68)																									
	A*68:113:01/ 129/ 133(A68)/ 171:01N(Null/ A68)/ 184(A68)/ 199N(Null/ A68)/ 246/ 44/ 48(A68)/ 49N(Null/ A68)/ 50:01(A68)/ 59N(Null)																									
	A*68:117/ 250/ 29/ 45/ 71(A68)																									
	A*68:130:01(A68)																									
	A*68:134(A68)																									
	A*68:15/ 20/ 227/ 84(A68)																									
	A*68:227(A68)																									
	A*68:230(A68)																									
	A*68:41(A68)																									
	A*68:61(A68)																									
x	A*69:01:01:01(A69)																									
	A*69:01:01:02/ 01:01:03/ 01:03/ 02/ 03/ 04/ 05/ 06/ 08(A69)																									
	A*69:01:02/ 07(A69)																									
	A*69:07(A69)																									
x	A*74:01:01:01/ 03:01:01(A74)																									
	A*74:01:01:02/ 01:01:03/ 01:01:04/ 01:01:05/ 01:01:06/ 01:01:07/ 01:02/ 01:04/ 01:05/ 01:06/ 01:07/ 01:08/ 02:01:01/ 02:01:02/ 03:01:02/ 03:02/ 04/ 05/ 06/ 07/ 08/ 09/ 11/ 13(A74)/ 14N(Null/ A68)/ 15/ 16:01/ 16:02/ 17/ 18/ 19/ 20/ 21/ 22/ 24/ 25/ 26/ 27/ 28/ 29/ 30/ 31(A74)/ 32N(Null/ A68)/ 33/ 34/ 35/ 36/ 37/ 38/ 39(A74)																									
	A*74:01:03(A74)																									
	A*74:10/ 16:01(A74)																									
	A*74:12N(Null/ A74)																									
x	A*80:01:01:01(A80)																									
	A*80:01:01:02/ 01:02/ 02/ 04/ 05/ 06/ 07(A80)																									
	A*80:03(A80)																									

- # manchmal schwache Amplifikation, sometimes weak amplification
- x häufige Allele, frequent alleles

Frequenzangaben / Frequencies

Quelle: Schreuder et. al.: The HLA Dictionary 2004; Tissue Antigens 2005; 65: 1-55

Allele die in der Studie mit einer Häufigkeit von größer gleich 0,01% gefunden wurden sind in der Frequenzspalte als häufig markiert

Source: Schreuder et. al.: HLA Dictionary 2004; Tissue Antigens 2005; 65: 1-55

Alleles that were found with an occurrence higher or equal to 0,01% are marked in the frequency column



ABC SSPtray

Reaktionsschema/Reaction Pattern

Alleldatenbank/Allele database:

2020-10-15 HLADB_3.42.0

REF LOT 826240 B036402-db2020-10V1

189661/03-08/2012

Frq.	Allele / Allele	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93		
x	C*01:02:01:01/03:01(Cw1)																			
	C*01:02:01:02/02:01:03/02:01:04/02:01:05/02:01:06/02:01:07/02:01:08/02:01:09/02:01:10/02:01:11/02:01:12/02:01:13/02:01:14/02:01:15/02:01:16/02:01:17/02:01:18/02:01:19/02:01:20/02:01:21/02:01:22/02:01:23/02:01:24/02:01:25/02:01:26/02:01:27/02:01:28/02:01:29/02:01:30/02:01:31/02:01:32/02:01:33/02:01:34/02:01:35/02:01:36/02:01:37/02:01:38/02:01:39/02:01:40/02:01:41/02:01:42/02:01:43/02:01:44/02:01:45/02:01:46/02:01:47/02:01:48/02:01:49/02:02:02:03/02:04/02:05/02:06/02:07/02:08/02:09/02:10/02:11/02:12/02:13/02:14/02:15/02:16/02:17/02:18/02:19/02:20/02:21/02:22/02:23/02:24/02:25/02:26/02:27/02:28/02:29/02:30/01/02:30/02/02:31/02:32/02:33/02:34/02:35/02:36/02:37/02:38/02:39/02:40/02:41/02:42/02:43/02:44/02:45/02:46/02:47/02:48/02:49/02:50/02:51/02:52/02:53/02:54/02:55/02:56/02:57/02:58/02:59/02:60/02:61/02:62/02:63/02:64/02:65/02:66/02:67/02:68/02:69/02:70/02:71/02:72/03:02/05/06/07/01/07:02/08/09/02:10/100/101/102/103/104/105/106/107/108(Cw1)/109N(Nu11y)/11/110(Cw1)/111N(Nu11y)/112/113/114/02:115/116(Cw1)/117N(Nu11y)/119/12:01/12:02/12:03(Cw1)/121Q(Nu11y)/122/123/124/125/126/127/128/129/13/130/132/133/134/135/136(Cw1)/137N(Nu11y)/138/139/140/141/142(Cw1)/143N(Nu11y)/144(Cw1)/145:02N(Nu11y)/146:01/146:02/147/148/149/15:01/15:02/15:03/15:04/15:05/15:06/15:07/15:08/15:09/16/161/162/163/164/165/166/167/168/169/01/169:02/17/170(Cw1)/171N(Nu11y)/172/173/174/175/176/177/178/179/18/180(Cw1)/181N(Nu11y)/182/183/184(Cw1)/185Q(Nu11y)/186/187/19/191/192/193/194/195/196/20/21/22/23/24/25/26/27/28/29/30/31/32:01/32:02/33/34/35(Cw1)/37N(Nu11y)/38/39/40/41/42/44/45/46/47/48/49:01/49:02/50/51/52/53/54/55(Cw1)/56N(Nu11y)/57/58/60/62/63:02/64/65/66/67/68(Cw1)/69N(Nu11y)/70/71/72/73/74/75/76/77/78/79:01/79:02/80/81/82/83/84/85(Cw1)/86N(Nu11y)/87/88(Cw1)/89N(Nu11y)/90/91/92/93/94/95/96/97(Cw1)/98N(Nu11y)/99(Cw1)/189/190																			
	C*01:02:18(Cw1)																			
	C*01:02:56/02:57/09:01/114:01/118/14(Cw1)/145:01N(Nu11y)/154/188/36:01/36:02/59/61(Cw1)																			
	C*01:04/21(Cw1)																			
	C*01:131(Cw1)																			
	C*01:160(Cw1)																			
	C*01:43(Cw1)																			
x	C*02:02:01/03(Cw2)																			
	C*02:02:01:02/02:02:02/02:02:03/02:02:04/02:02:05/02:02:06/02:02:07/02:02:08/02:02:09/02:02:10/02:02:11/02:02:12/02:02:13/02:02:14/02:02:15/02:02:16/02:02:17/02:02:18/02:02:19/02:02:20/02:02:21/02:02:22/02:02:23/02:02:24/02:02:25/02:02:26/02:02:27/02:02:28/02:02:29/02:02:30/02:02:31/02:02:32/02:02:33/02:02:34/02:02:35/02:02:36/02:02:37/02:02:38/02:02:39/02:02:40/02:02:41/02:02:42/02:02:43/02:02:44/02:02:45/02:02:46/02:02:47/02:02:48/02:02:49/02:50/02:51/02:52/02:53/02:54/02:55/02:56/02:57/02:58/02:59/04:05:01/05:02/05:03/06:01/06:02/07/08/09/10:01:01/10:01:02/10:01:03/10:01:04/10:01:05/10:01:06/10:01:07/10:01:08/10:01:09/10:01:10/10:01:11/10:01:12/10:01:13/10:01:14/10:01:15/10:02/10:03/10:04/10:05/10:06/10:07/10:07:01/102/103/104(Cw2)/105N(Nu11y)/106/108/109/11/110/111/112/113/114/116/117/118/119/120(Cw2)/121N(Nu11y)/122/123/124/125/126/127/128/129/13/130/131/132/133(Cw2)/135N(Nu11y)/136/137/138/139/14:01/14:02/14:03/14:04/14:05/14:06/14:07/14:08/14:09/15(Cw2)/150N(Nu11y)/151/153/154/155/156/157/158/159/16:02/160/161/162/163/164(Cw2)/165N(Nu11y)/166/168(Cw2)/169N(Nu11y)/17/170/171/172/173/174/175/176/177/178/179/18/180/181/182/183/184/185/186/187/188/19/190/191(Cw2)/192N/193N(Nu11y)/194/195/196/20/21/22/23/24(Cw2)/25Q(Nu11y)/27:01/27:02/28/29/30/31/32/33/34/35/36:01/36:02/37(Cw2)/38:01N/38:02N(Nu11y)/39/40:01/40:02/42/43:01/43:02/44/45/46/47/48/50/51/52(Cw2)/52N(Nu11y)/53:01/53:02/54/56/57/58/59/60/61:01/61:02/62/63/64/65/66(Cw2)/67Q(Nu11y)/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/88/89/90/91(Cw2)/92N(Nu11y)/93/94/95/96/97/98/99(Cw2)																			
	C*02:02:02:31(Cw2)																			
	C*02:02:26/107/115/12/131/134/152/189/191/26:01/26:02/26:03/49/55:01/55:02(Cw2)																			
	C*02:02:44(Cw2)																			
	C*02:167(Cw2)																			
	C*02:197(Cw2)																			
	C*02:87(Cw2)																			
x	C*03:02:01/04:01:01(Cw10)/05(Cw3)/06:01(Cw10)/07:01:01/09/10(Cw3)																			
	C*03:02:02:01/02:02:02/02:02:03/02:02:04/02:02:05/02:02:06/02:02:07/02:02:08/02:02:09/02:02:10/02:02:11/02:02:12/02:02:13/02:02:14/02:02:15/02:02:16/02:02:17/02:02:18/02:02:19/02:02:20/02:02:21/02:02:22/02:02:23/02:02:24/02:02:25/04:01/03:21/03:51(Cw9)/04:01:02/04:01:03/04:01:04/04:01:05/04:01:06/04:01:07/04:01:08/04:01:09/04:01:10/04:01:11/04:01:12/04:01:13/04:01:14/04:01:15/04:01:16/04:01:17/04:01:18/04:01:19/04:01:20/04:01:21/04:01:22/04:01:23/04:01:24/04:01:25/04:01:26/04:01:27/04:01:28/04:01:29/04:01:30/04:01:31/04:01:32/04:01:33/04:01:34/04:01:35/04:01:36/04:01:37/04:01:38/04:01:39/04:01:40/04:01:41/04:01:42/04:01:43/04:01:44/04:01:45/04:01:46/04:01:47/04:01:48/04:01:49/04:01:50/04:01:51/04:01:52/04:01:53/04:02:01/04:02:02/04:02:03/04:02:04/04:02:05/04:02:06/04:02:07/04:02:08/04:02:09/04:10/04:11/04:12/04:13/04:14/04:15/04:16/04:17/04:18/04:19/04:20/04:21/04:22/04:23/04:24/04:25/04:26/04:27/04:28/04:29/04:30/04:31/04:32/04:33/04:34/04:35/04:36/04:37/04:38/04:39/04:40/04:41/04:42/04:43/04:44/04:45/04:46/04:47/04:48/04:49/04:50/04:51/04:52/04:53/04:54/04:55/04:56/04:57/04:58/04:59/04:60/04:61/04:62/04:63/04:64/04:65/04:66/04:67/04:68/04:69/04:70/04:71/04:72/04:73/04:74/04:75/04:76/04:77/04:78/04:79/04:80/04:81/04:82/04:83/04:84/06:02(Cw10)/07:01:02/07:01:03/07:01:04/07:02/08/100/101/104/105/106/107/108/109/110/111/114/115:01/115:02/117/118(Cw3)/121N(Nu11y)/123/125/128/129/130/131/134/136/137/138/139/14/140:01/140:01:02/143/144/145/146/147/148/149/15/153/155/156/157/159/162/163/164/166(Cw3)/169Q(Nu11y)/Cw3/170/172/173/174/179/18:01/180/181/182/183/184:01/184:02/186:01/186:02/189/190/191/193/194/197/199/200(Cw3)/201N/208N(Nu11y)/209/210/211:01/211:02/212/213/215/216/218/219/221/222(Cw3)/224N(Nu11y)/225/226/231/232/233/234/235/236/238/239(Cw3)/23N(Nu11y)/24/240(Cw3)/244Q(Nu11y)/245/246/247/248/25/250/252/255/256/257/258/259(Cw3)/26:01/26:02(Cw10)/261/263:01/263:02/263:03/264(Cw3)/265N(Nu11y)/266/269/27/270(Cw3)/277N(Nu11y)/278/279(Cw3)/28(Cw10)/281/282/283/286/287:01/287:02/29/294/296:01/296:02/297/298/299/300/301/303/305/306/309/310/311/313/314/315/317(Cw3)/318N(Nu11y)/32/322(Cw3)/323N(Nu11y)/328/33/331/332/333/334/335/337/338/34/340/342/343/344:01:02/347/348/349/350/353/354/358/359/36/361/362/365(Cw3)/366N(Nu11y)/368/369/37:01/37:02/371/373/376/379/38:01/38:02/381/382/385/386/387/388/39/390(Cw3)/391N/392N(Nu11y)/393/394(Cw3)/396N(Nu11y)/397/399/40:01/40:02/40:03/40:04/40:0/40:1/40:2/40:3/40:4/40:5/40:6/40:7/40:8/40:9/41/41:01/41:1/41:5/41:7/41:9/42:01/42:02/42:03/42:04/42:05(Cw3)/42:4N(Nu11y)/425/426/429/431/434/437/439/44/441(Cw3)/442Q(Nu11y)/Cw3/443(Cw3)/445N/446N(Nu11y)/448Q(Nu11y)/Cw3/449N(Nu11y)/45/452/453/454/455/456/458/459(Cw3)/46(Cw10)/462N/463N(Nu11y)/465/466/467/468/469/47(Cw3)/47Q(Nu11y)/473/478/48/480/482/483/484/485/486/487/488/489/491:01/491:02/492/494/496/497/498/499/500/501/502/504/505(Cw3)/508N(Nu11y)/51(Cw3)/510N/511N(Nu11y)/513/518/521/522/523/525/526(Cw3)/531N(Nu11y)/532/538/539/54/57:01/57:02/60/63/64:01/64:02/65/70/72/73/74/77/78/80:01/80:02/82/84/87:01/87:02/89/90/91:01/91:02/92/93/95/98(Cw3)																			
x	C*03:03:01:01(Cw9)																			
	C*03:03:01:02/03:01:03/03:01:04/03:01:05/03:01:06/03:01:07/03:01:08/03:01:09/03:01:10/03:01:11/03:01:12/03:01:13/03:01:14/03:01:15/03:01:16/03:01:17/03:01:18/03:01:19/03:01:20/03:01:21/03:01:22/03:01:23/03:01:24/03:01:25/03:01:26/03:01:27/03:01:28/03:01:29/03:01:30/03:01:31/03:01:32/03:01:33/03:01:34/03:01:35/03:01:36/03:01:37/03:01:38/03:01:39/03:01:40/03:02/03:03/03:04/03:05/03:06/03:07/03:08/03:09/03:10/03:11/03:12/03:13/03:14/03:15/03:16/03:17/03:18/03:19/03:20/03:22/03:23/03:24/03:25/03:26/03:27/03:28/03:29/03:30/03:31/03:32/03:33/03:34/03:35/03:36/03:37/03:38/03:39/04:00/04:01/04:02/04:03/04:04/03:44/03:45/03:46/03:47/03:48/03:49/03:50/03:51/03:52/03:53/03:54/03:55/03:56/03:57/03:58/03:59(Cw9)/102/103/11:01/11:02/112/116:01/116:02/119:01/119:02/120/122/124/126/127/132/133/141/142/150/152/158/160/161/165/02:167/168/171/175/176/177/18/02:18:03/185/187/188(Cw3)/189N(Nu11y)/192/195/196/202/203/204/205/206/207(Cw3)/20N(Nu11y)/21/214/217/220/223/227/228(Cw3)/229N(Nu11y)/22Q(Nu11y)/Cw3/230/231/241/242/243/253/254/268/272/273/274/275/276/284/285/288/289/290/291/295/30/304/307/31/312(Cw3)/316N(Nu11y)/319/320/321/324/325/327/336/339/341/345/346/351/352/356/357/360(Cw3)/363N(Nu11y)/364/367/370/372:01/372:02/374/375(Cw3)/377N(Nu11y)/378/389/395/398/413/414/416/418(Cw3)/380N(Nu11y)/383/389/395/398/413/414/416/418(Cw3)/421N(Nu11y)/422/427/428/43:01/43:02/430(Cw3)/432N(Nu11y)/433/436/438/440(Cw3)/444N/447N(Nu11y)/450/451/457/460/461/471/472/476/477/479/481/49/490/495/50/503/507(Cw3)/509N(Nu11y)/514/515/516/517/519/52/520/524/527/528/529/53/533/534/537/541/542/55/56/59/61/62/66/67/68/69/75/76/79/81/83/85/88/96/97(Cw3)/506																			
	C*03:113:01/113:02/135/154/16/17/01/17:02/178/198/249/260/292/293/302/326/329/330/35:01/35:02:01/35:02:02/355/384/41:01/41:02/41:2/435/464/475/493/512/536/71/94(Cw3)																			
	C*03:13:01:01/13:01:02/13:02/151/251/262/267/271/451/474/535/58/86(Cw3)																			
	C*03:280/530(Cw3)																			
	C*03:308(Cw3)																			
	C*03:344:01:01(Cw3)																			
	C*03:540(Cw3)																			



Frq.	Allel / Allele	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	
x	C*12:04:01 C*12:104N/105N(NuII)-/139Q(NuII)-/148N(NuII)/155Q(NuII)-/219N/232N/236N/270N/274:01N/295N/311N/324N/327N/329N/39N(NuII)/42Q(NuII)-/46N/80N/84N(NuII)/02:01/02:02/02:02/02:03/02:04/02:05/02:06/02:07/02:08/02:09/02:10/02:11/02:12/02:13/02:14/02:15/02:16/02:17/02:18/02:19/02:20/02:21/02:22/02:23/02:24/02:25/02:26/02:27/02:28/02:29/02:31/02:32/02:33/02:35/02:36/02:37/02:38/02:39/03:01/02/03:01/03/03:01:04/03:01:05/03:01:06/03:01:07/03:01:08/03:01:09/03:01:10/03:01:11/03:01:12/03:01:13/03:01:14/03:01:15/03:01:16/03:01:17/03:01:18/03:01:19/03:01:20/03:01:21/03:01:22/03:01:23/03:01:24/03:01:25/03:01:26/03:01:27/03:01:28/03:01:29/03:01:30/03:01:31/03:01:32/03:01:33/03:01:34/03:01:35/03:01:36/03:01:37/03:01:38/03:03/03:04/03:05/03:06/03:07/03:10/03:11/03:12/03:13/03:14/03:15/03:17/03:18/03:19/03:21/03:22/03:23/03:24/03:25/03:27/03:28/03:29/03:31/03:32/03:33/03:35/03:36/03:37/03:38/03:39/03:40/03:41/03:42/03:43/03:44/03:45/03:46/03:47/03:48/03:49/03:50/03:51/03:52/03:53/03:54/03:55/03:56/03:57/03:58/03:59/03:60/03:61/03:62/03:63/03:64/03:65/03:66/04:02/04:02/04:02/05:01/05:02/06/07/08/100/101/102/103/106/107/108/109/11/110/111/112/113/114/115/116/117/119/121/120/121/122/123/124/125/126/128/129/130/01:01/13:01:02/130/131/132/133/134/135/136/137/138/14:02/14:01/14:02/14:1/142/143/145/146/147/149/15/150/151/152/153/154/156/157/158/159/16:01/160/161/162/163/164/165/166/167/168/169/17/170/171/172/173/174/175/177/178/179/18:01/180/182/184/186/187/188/189/190/191/193/194/195:01/195:02/196/197/198/199/200/201/202/204/205/206/207/209/210/211/212/213/214/215/216/217/218/22/220/223/225/226/227/228/229/23/230/231/234/235/237/238/239/24/240/241/242/243/244/245/246/247/248/249/25/250/252/253/254/255/256/257/259/260:01/260:02/261/262/263/264/265/266/267/268/269/27/271/272/273/275/276/277/278/279/28/280/281/282/283/286/287/288/289/29/290/291/292/293/294/296/297/298/300/300/301/302/303/304/305/306/307/308/31:01/31:02/310/312/313/314/315/316/317/318/319/32/320/321/322/323/325/326/328/34/35/36/37/38/40/41/43/45/47/48/49/50/51/52/53/54/55/56/57:01/57:02/58/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/81/82/83/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99:01/99:02																		
	C*12:127/203																		
	C*12:16:02																		
	C*12:176																		
	C*12:181																		
	C*12:233																		
x	C*14:02:01:01/03:01:01/05 C*14:02:08/02:21/03:05																		
	C*14:07N(NuII)/105Q(NuII)-/117N/21N/35N/47:01N/47:02N/93N/97N/99N(NuII)/02:01/02:01:03/02:01:04/02:01:05/02:01:06/02:01:07/02:01:08/02:01:09/02:01:10/02:01:11/02:01:12/02:01:13/02:01:14/02:01:15/02:01:16/02:01:17/02:01:18/02:01:19/02:01:20/02:02/02:02:02/02:02:03/02:02:04/02:02:05/02:02:06/02:02:07/02:02:08/02:02:09/02:10/02:11/02:12/02:13/02:14/02:15/02:16/02:17/02:18/02:19/02:20/02:21/02:22/02:23/02:24/02:25/02:26/02:27/02:28/02:29/02:30/02:31/02:32/02:33/02:34/02:35/02:36/02:37/02:38/02:39/02:40/02:41/02:42/02:43/02:44/02:45/04:01:02/04:01:03/04:02/04:03/04:04/04:05/05:01:02/05:01:03/05:02:01/05:02:02/05:02:03/05:02:04/05:02:05/05:02:06/05:02:07/05:02:08/05:03/05:04/05:05/05:06/05:07/05:09/05:10/05:11/05:12/05:13/05:14/05:15/05:16/05:17/06:01/06:02/06:03/07:01:01/07:01:02/08:01/08:02/09:01:02/09:02/10:01/10:02/10:03/10:04/100/101/103/104/106/107/108/109/11/111/112/113/114/115/116/118/119/121/120/121/122/123/13/14/16/18/19/20/22/23/24/01/24:02/25/26/27/28:01/28:02/29/30/31/32/33/34/36/37/38/39/40/41/42/43/44/45/46:01/46:02/48/49/50/51/52/53/54/55/56/57/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/88/89/90/91/92/94/95/96/98																		
	C*14:110/33/58 C*14:15/17/87																		
x	C*15:02:01:01/03/04:01:01/05:01:01/09:01:01 C*15:02:01:08N(NuII)/02:01:30Q/105Q(NuII)-/115N/122N/145N/156N/160N/164N/177N/185N/188N/189N/213N/216N(NuII)/32Q/84Q(NuII)-/92N/95N(NuII)/96Q(NuII)-/02:01:02/02:01:03/02:01:04/02:01:05/02:01:06/02:01:07/02:01:09/02:01:10/02:01:11/02:01:12/02:01:13/02:01:14/02:01:15/02:01:16/02:01:17/02:01:18/02:01:19/02:01:20/02:02/02:02:02/02:02:03/02:02:04/02:02:05/02:02:06/02:02:07/02:02:08/02:02:09/02:10/02:11/02:12/02:13/02:14/02:15/02:16/02:17/02:18/02:19/02:20/02:21/02:22/02:23/02:24/02:25/02:26/02:27/02:28/02:29/02:30/02:31/02:32/02:33/02:34/02:35/02:36/02:37/02:38/02:39/02:40/02:41/02:42/02:43/02:44/02:45/04:01:02/04:01:03/04:02/04:03/04:04/04:05/05:01:02/05:01:03/05:02:01/05:02:02/05:02:03/05:02:04/05:02:05/05:02:06/05:02:07/05:02:08/05:03/05:04/05:05/05:06/05:07/05:09/05:10/05:11/05:12/05:13/05:14/05:15/05:16/05:17/06:01/06:02/06:03/07:01:01/07:01:02/08:01/08:02/09:01:02/09:02/10:01/10:02/10:03/10:04/100/101/103/104/106/107/108/109/11/111/112/113/114/116/117/119/120/123/124/126/127/128/129/130:01/13:01:02/131/132/133/134/135/136/137/138/139/140/141/142/143/146/15/152:02/152:03/153/154/155/157/158/159/16/161/162/163/165/166/167/168/169/17/170/172/173/174/175/176/178/179/18/180/181/182/183/184/186/187/19/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/21/210/211/212/215/217/219/220/221/222/223/224/226/227/228/23:01/23:02/24/25/26/27/28/29/30/31/33/34/35/36/38/39/40/41/42/43/44:01/44:02/45/46/47/48/49/50/51/52:01/52:02/53/54/56/57/59/60/61/62/63/64/66/67/68/69/70/71/72/73/74/75/76/77/78:01/78:02/79/80/81/82/83/85/86/87/88/89/90/91/93/94/97/98/99																		
	C*15:02:33:01/102/121/125/130/147/148/149/150/151/152:01/190/214/22/225/37/55/58/65/68/72 C*15:11/118 C*15:12/144 C*15:171/218																		
x	C*16:01:01:01/02:01:01/04:01:01 C*16:01:05/02:04/02:14/06/07:01/07:02/107/110/113/117/140/153/162/171/22/40/43/53/83 C*16:01:17/02:13/15:02 C*16:121/34 C*16:123N/132N(NuII)/16Q/174Q(NuII)-/30N/77N/89N(NuII)/01:02/01:01:03/01:01:04/01:01:05/01:01:06/01:01:07/01:01:08/01:01:09/01:01:10/01:01:11/01:01:12/01:01:13/01:01:14/01:01:15/01:01:16/01:01:17/01:01:18/01:01:19/01:01:20/01:02/01:03/01:04/01:06/01:07/01:09/01:10/01:11/01:12/01:13/01:14/01:15/01:16/01:18/01:19/01:20/01:21/01:22/01:23/01:24/01:25/01:26/01:27/01:28/01:29/01:30/01:31/01:32/01:33/01:34/01:35/01:36/01:37/01:38/01:39/02:01:02/02:01:03/02:02/02:03/02:04/02:05/02:06/02:07/02:08/02:09/02:10/02:11/02:12/02:14/02:15/02:16/02:17/02:18/04:01:02/04:01:03/04:03/04:04/04:05/08/09/10/100/101/102/103/104/105/106/108/109/11/111/112/114/115/116/118/119/12/120/122/124/125/126/127/128/129/13/130/131/133/134/135/136/137/138/14/140/141/142/143/144/145/146/147/148/149/15:01/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/17/170/171/172/173/175/176/18/19/20/21/23/24/25/26/27/28/29/31/32/33/35/36/37/38/39:01/39:02/41/42/44/45/46/47/48/49/50/51/52/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/78/79/80/81/82/84/85/86/87/88/90/91/92/93/94/95/96/97/98/99																		
	C*16:139 C*17:01:01:02/03:01:01 C*17:01:07/07/16:01/16:02/21/33/56 C*17:27N(NuII)/01:01:03/01:01:04/01:01:05/01:01:06/01:01:07/01:01:08/01:01:09/01:01:10/01:01:11/01:12/01:13/01:14/01:15/01:16/02/03:01/02/03:01:03/03:01:04/03:01:05/03:02/03:03/04/05/06/08/09/10/11/12/13/14/15/17/18/19/20/22/23/24/25/26/28/29/30/31/32/34/35:01/35:02/36/37/38:01:01/38:01:02/39/40/41/42/43/44/45/46/47/48/49/50/51:01:01/51:01:02/51:02/52/53/54/55/57 C*18:01:01:01/02:01:01 C*18:05 C*18:07N(NuII)/01:01:02/01:01:03/01:02/02:01:02/02:01:03/02:02/02:03/02:04/02:05/03/04/06/08/09/10/11/12/13/14																		

- # manchmal schwache Amplifikation, sometimes weak amplification
- x häufige Allele, frequent alleles

Frequenzangaben / Frequencies

Quelle: Schreuder et. al.: The HLA Dictionary 2004; Tissue Antigens 2005: 65: 1-55
 Allele die in der Studie mit einer Häufigkeit von größer gleich 0,01% gefunden wurden sind in der Frequenzspalte als häufig markiert
 Source: Schreuder et. al.: HLA Dictionary 2004; Tissue Antigens 2005: 65: 1-55
 Alleles that were found with an occurrence higher or equal to 0,01% are marked in the frequency column

