



| Mix # | 5' Primer*         | 3' Primer*             | Größe/ Size [bp]                | Spezifität / Specificity  |
|-------|--------------------|------------------------|---------------------------------|---|
| 1     | 87 GAA             | 302 GGC                | 255                             | C*01:02:01-13,15-37N,38-56N,57,58,60,62-66,68,69N-78 / <b>B*39:76 / *54:18</b>  |
| 2     | 116 CCA            | 289 AGT                | 210                             | C*02:02:01-02:03,02:05-02:25,03-12w,13-25Q,27:01-38N,39,40,42-49w,50-52N,53-55w,56-67Q,68 / *04:03:01w,06w / *15:11 / *16:34  |
| 3     | 310 AAA            | 559 CTC                | 530                             | C*02:02:01-02:03,02:05-02:26,03-25Q,26:01-26:03,28-38N,39,40,42,44-52N,53-57,59-64,66, 67Q,68 / *04:32,77 / *06:08 / *15:42 / *17:01:01-01:09,02-06,08-16,18,19 / *18:03 / <b>B*40:76</b>   |
| 4     | 341 CCG<br>353 TCC | 589 CTT                | 535<br><br>535 + 275<br>275     | C*03:04:01:01-04:14,04:16-10,14,17,19,23-29,34,35,37-38:02,40:01-40:03,42,44,46-48,51, 54,57, 63-65,70-74,77,78,80,82,87,90-93,98,100,101,104-107,109,111,114,115,117,118,123, 125,128-131,134,135,137,138,140,143,145,147-149,153-157,159,162,163 / *01:65 / <b>A*03:146 / B*15:96</b><br>C*03:02:01-02:10,04:15,33,36,84,89,95,108,110,121N,139,146,169Q,190,194<br>C*03:15,60,132,177  |
| 5     | 103 GCT            | 353 TGA                | 530                             | C*03:03:01-03:03,03:05-04:01:02,04:03-04:05,04:07-04:25,04:27-04:36,06-12,14,19,20N,21,22Q, 23,24,26,28-32,34,37:01-38:02,40:01-57,59,61-70,72-83,85,87,88,90-93,96,98,100-107,109,111-120, 122-131,133,134,136,138,140-143w,145,147-165,168,170-176,179-181,183-189N,191-193, 195w / *02:62 / *04:80 / *15:02:01-09,10:02,11-13,15-19,21,24-32Q,33-35,38-41w,42-54,56,57,59-62,64,66-71  |
| 6     | 417 GTA            | 589 CTT                | 210                             | C*03:03:01-04:07w,04:08-11:02,13,17,18,20N,21,22Q-25,27-32,34,35,37:01-39,44-57,59,61-70,72-80w,81-83,85,87,88,90-93,96-98,100,101,103-107,109,111,112,114-118,120,122-131,133-138,140-145,147-150,152-165w,166-168,170-174,176-189N,191-193,195 / *01:65   |
| 7     | 341 CCA            | 589 CTT                | 525                             | C*03:03:01-03:21,11:01,11:02,13,18,20N,21,22Q,30,31,39,43:01,43:02,49,50,52,53,55,56,59,61, 62,66-69,75,76,79,81,83,85,88,96,97,102,103,112,116:01,116:02,119,120,122,124,126,127, 132,133,141,142,144,150,152,158,160,161,165,167,168,171,175-177,182,185,187-189N,192,195   |
| 8     | 110 CCT<br>116 CCA | 412 GTT                | 575 / 580                       | C*04:01:01:01-01:52,03:01-09N,10-15:03,17-20,24-41,43-53,55-59Q,60-88N,89-93N,94:01,94:02, 95N-99,101,102,104,105N-107,109-115N,116-123Nw,124-139,141-152 / *02:22,68 / *05:26,78   |
| 9     | 310 AAA            | 485 CCT                | 455                             | C*05:01:01:01-01:27,03-07N,08-11,13-17,19,21-31,33-45w,46-48N,49-51Q,52-91N,92N-94 / *02:51   |
| 10    | 211 CCC            | 361 CCA                | 430                             | C*06:02:01:01-02:27,03:01-16N,18-34,36-38,40-46N,47-49N,50-58w,59-71,73-79N,80-100,102 / *12:03:09 / <b>B*14:02:06</b>  |
| 11    | 300 GAG            | 512 CCA                | 490                             | C*07:01:01:01-02:01:05,02:02-02:32,02:34-02:43,04:01-06,08,10,11,13-16,18-24,25w,26-32N,33N, 35-40,42-48,50-55N,56:01-58w,59-61N,62-75,77-91w,92-98N,99-104N,105w-121Q,122-124w,125-139,142-150Q,151,152N-155w,156-164N,165-169,172-191N,192-198N,199:01-209,211-227N,228-237,239-241,243-246,248-264N,265-281w,282-294,296-303,305,306,308-314 / *01:60 / *03:14,162 / *08:07w,47 / *12:14:01,14:02 / *14:17 / <b>B*46:06</b>  |
| 12    | 339 GGA            | 368 CAG                | 310                             | C*07:02:01:01-02:01:05,02:02-02:43,03,10,13,15,17:01,17:02,19,23,25,29,32N,33N,37-39,42,46-50, 54,56:01,56:02,61N,62,64,66-68,72,74-76,80,84,87,88,90,97,99,100,102,105,107,114,117, 121Q,123,125-127,130,133,135-138,143-147,149,152N,154,155,157-161,167-169,171,172, 174, 175,178,183,185-187,192-195,198N,202,208,209,211,213,216-218,220,221,226w,229,232-234, 238-245,251,252,258-262,264N,265,270,271,273-275,283-291,302,305-309,312,314 / *06:35,47                                      |
| 13    | 339 GGA            | 601 CTT                | 540                             | C*07:04:01-04:08,11,12,41,63,68,101,139,142,199:01,199:02,260,272,302 / *04:120 / *05:25,42 / *08:28  |
| 14    | 268 AAC<br>310 AAA | 512 CCA                | 485 / 525                       | C*07:01:01:01-01:24,01:26,01:27-01:34,06,07,09,16,18-22,24,26,28,30,35,36,40,44,52,53,55N,57-60,65, 69-71,73, 76-78,81-83,85,86,89,91-96:02,98N,103,104N,106,108-113,115,116,118-120,122, 124,128, 129,131,132,134,148,150Q,151,153,156,162-164N,165,166,173,176,179,180,182,188-191N,196, 197,200,201,203-207,210,212,214,215,219,222-225,227N,228,230,231,235-237,246-250,253-257,263,266-269,276-281w,282,292w,293,296-301,303,310,311,313,315 / *15:65 / *17:01:01:01-19 / *04:58 / *05:23,62 |
| 15    | 174 GCA            | 302 GGC<br><br>526 CGT | 165 + 630<br><br>165<br><br>630 | C*08:01:01-01:10,03:01,03:02,06,08,09,11,14,20-22,24,26N,36N,38,40-42,44,46,50,56,58-61,72:01,72:02,78<br>C*08:02:01-02:10,04:01-05,07,12,15:01,15:02,17-19,23,27-35,37,39,43,45,47-49,51,52N,53,54,57,62,63,65-70Q,71,73-77 / *01:43 / *07:101,148,161<br>C*08:10 / *05:79   |
| 16    | 287 AGG            | 341 CGG                | 95                              | C*12:02:01-04:02,06-08,10:01-20,22-27,29-32,34-39N,40-42Q,43-46N,47,48,50-57,59-62, 64-80N,81-84N,85-97,99 / *01:17,21 / *02:12,55 / *03:27,38:01,38:02,69,130,163 / *04:33,107 / *05:46 / *06:30 / *07:07,16,51,60,79,181 / *08:05,21,25 / *14:04 / *15:03,16 / *16:15:01,15:02,25 / *17:01:01-01-10,12-14,16-19 / <b>B*07:13, B*67:02</b>   |
| 17    | 211 CCG<br>477 GCA | 474 GCA<br>477 GCA     | 540 / 545                       | C*12:02:01-03:01:02,03:03-03:07,03:10-03:15,03:17-03:19,03:21,03:22,04:02-08,10:01-13,14:02-18:01,20-25,27-32,34-39N,40-42Q,43-46N,47-58,60-76w,77-80N,81-84N,85 / *01:04,21 / *04:01:05 / *06:76:02 / *07:01:20,01:27 / *08:02:02 / *14:02:08 / *16:15:02  |
| 18    | 310 AAA            | 361 CCA                | 330                             | C*12:04:01,04:02,05,09,33,60w, / *01:14w / *02:05,17w / *04:37w / *05:16,85w / *06:02:01:01, 02:01:02,02:03-02:27,03:01-10,12-16N,17-23w,24-34,36-47w,48,49N-52w,53:01-58w,59-71,73-79N,80,81,83-100,102 / *14:12w,49w / *15:37w,55,58 / *16:02:01-02:09,09,12,19,25,37,46-48   |
| 19    | 96 CTC             | 361 CCA                | 545                             | C*14:02:01-07N,08,10-21N,22-27,29-34,36-47N,48-52 / *04:37 / *12:55 / <b>A*24:64w</b>   |
| 20    | 199 CCA            | 353 TGA                | 435                             | C*15:02:01-02:09,02:11-13,15-19,21,23-32Q,33-36,38-41w,42,44-54,56,57,59-64,66-71 / *02:62 / *03:04:25 / *04:80,100,110 / *05:10 / *08:44,61 / *12:44 / <b>B*35:08:02,08:05</b>   |
| 21    | 648 TCT            | 829 TTC                | 220                             | C*16:01:01-01:13,02:01-02:09,04:01,06-16Q,17-30N,31-59  |
| 22    | 287 AGG            | 499 GGA                | 490                             | C*17:01:01-01-14,16-19  |
| 23    | 211 CCC            | 368 CAA                | 435                             | C*18:01-04,06,07N / *06:101   |
| 24    |                    |                        |                                 | Kontaminations Kontrolle / Contamination Control  |

\* Das Codon am 3' Ende des Primers. Die Nummer gibt die Nukleotidposition an. / The codon at the 3' end of the primer. The number given is the nucleotide position.

w schwach / weak

Folgende Allele werden nicht erkannt / Following alleles cannot be detected: Cw\*01:59,61,67, \*03:16,58,86,94,99, \*04:16,23,42,54,103,108,140, \*05:12,18,20,32, \*06:72, \*07:140-141:02,170,304, \*08:13,16,55N, \*12:95, \*14:09,28,35N, \*15:22, \*18:05



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