**S1 Table. Allele dropout detection in 10,063 buccal swab samples**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A Dropout** | **Number** | **B Dropout** | **Number** | **C Dropout** | **Number** | **DRB1 Dropout** | **Number** | **DQB1 Dropout** | **Number** |
| A\*01:01:01  | 9 | B\*07:02:01 | 9 | C\*01:02:01 | 5 | DRB1\*04:01:01  | 14 | DQB1\*02:01:01  | 9 |
| A\*02:01:01  | 26 | B\*07:05:01 | 2 | C\*02:02:01 | 2 | DRB1\*04:02:01  | 4 | DQB1\*02:02:01  | 6 |
| A\*02:02 | 1 | B\*08:01:01 | 3 | C\*02:02:02 | 2 | DRB1\*04:03:01 | 6 | DQB1\*03:01:01  | 5 |
| A\*02:07:01  | 2 | B\*14:01:01 | 1 | C\*02:10 | 4 | DRB1\*04:04:01  | 13 | DQB1\*03:02:01 | 1 |
| A\*02:17:01 | 1 | B\*14:02:01 | 3 | C\*03:03:01 | 4 | DRB1\*04:05:01 | 3 | DQB1\*04:01:01 | 1 |
| A\*03:01:01  | 15 | B\*15:01:01 | 1 | C\*03:04:01 | 7 | DRB1\*04:07:01 | 3 | DQB1\*05:01:01 | 2 |
| A\*11:01:01 | 4 | B\*15:04:01 | 1 | C\*03:04:02 | 1 | DRB1\*04:08:01 | 3 | DQB1\*05:03:01 | 2 |
| A\*23:01:01 | 5 | B\*15:10:01 | 1 | C\*04:01:01 | 4 | DRB1\*04:11:01 | 3 | DQB1\*05:05 | 1 |
| A\*24:02:01  | 9 | B\*18:01:01 | 2 | C\*04:07 | 1 | DRB1\*07:01:01 | 1 | DQB1\*06:01:01 | 1 |
| A\*24:03:01 | 1 | B\*27:05:02 | 1 | C\*05:01:01 | 5 | DRB1\*08:01:01 | 1 | DQB1\*06:02 | 4 |
| A\*25:01:01 | 1 | B\*35:01:01 | 2 | C\*06:02:01 | 2 | DRB1\*11:01:01 | 1 |  |  |
| A\*26:01:01 | 7 | B\*35:03:01 | 2 | C\*07:01:01 | 9 | DRB1\*11:15 | 1 |  |  |
| A\*26:08 | 1 | B\*37:01:01 | 1 | C\*07:02:01 | 6 | DRB1\*13:01:01 | 3 |  |  |
| A\*29:01:01 | 1 | B\*38:01:01 | 9 | C\*07:04:01 | 1 | DRB1\*14:04:01 | 1 |  |  |
| A\*29:02:01 | 7 | B\*39:02:01 | 1 | C\*08:01:01 | 1 | DRB1\*14:09 | 1 |  |  |
| A\*30:02:01 | 2 | B\*39:06:01 | 2 | C\*08:02:01 | 2 | DRB1\*15:01:01 | 8 |  |  |
| A\*30:10 | 1 | B\*39:10:01 | 2 | C\*12:03:01 | 2 | DRB1\*15:03:01 | 2 |  |  |
| A\*31:01:01  | 3 | B\*39:24:01 | 1 | C\*15:02:01 | 1 | DRB1\*16:03 | 1 |  |  |
| A\*33:01:01 | 3 | B\*40:01:01 | 1 | C\*16:01:01 | 3 |  |  |  |  |
| A\*34:01:01 | 1 | B\*40:02:01 | 3 | C\*17:01:01 | 1 |  |  |  |  |
| A\*66:02 | 2 | B\*40:27:01 | 1 |  |  |  |  |  |  |
| A\*68:01:01  | 6 | B\*41:01:01 | 1 |  |  |  |  |  |  |
| A\*68:02:01 | 3 | B\*44:02:01 | 3 |  |  |  |  |  |  |
|  |   | B\*44:03:01 | 1 |  |  |  |  |  |  |
|  |   | B\*44:04 | 1 |  |  |  |  |  |  |
|  |   | B\*45:01:01 | 1 |  |  |  |  |  |  |
|  |   | B\*46:01:01 | 1 |  |  |  |  |  |  |
|  |   | B\*48:03:01 | 1 |  |  |  |  |  |  |
|  |  | B\*49:01:01 | 3 |  |  |  |  |  |  |
|  |  | B\*50:01:01 | 2 |  |  |  |  |  |  |
|  |  | B\*51:01:01 | 2 |  |  |  |  |  |  |
|  |  | B\*55:01:01 | 1 |  |  |  |  |  |  |
|  |  | B\*56:01:01 | 2 |  |  |  |  |  |  |
|  |  | B\*57:01:01 | 3 |  |  |  |  |  |  |
|  |  | B\*58:01:01 | 3 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |