**Supplementary table 4.** **SLA class I alleles Belgian pigs (N=30)**. Number of reads coding for SLA class I molecules are displayed and percentages of these are shown for each allele expressed by the *SLA-1*, *-2*, or *-3* loci as indicated. Novel sequences (NS) were placed in the SLA-1, -2, or -3 columns according to the phylogenetic analysis (Supplementary figure 2 and data not shown). SLA class I haplotypes are displayed in the right column. SLA class I typing of pig A1 and A3 using the PCR-SSP method is included for comparison. Pigs typed using both the long and the short amplicon are marked with \*. In bold are the alleles detected with the long amplicon but not the short amplicon. Alleles detected with the short amplicon (NGS#1) but not found with the long amplicon (NGS#2) are marked with #.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal ID** | **Reads** | ***SLA-1*** | **%** | ***SLA-3*** | **%** | ***SLA-2*** | **%** | **Haplotype** |
| A1\*  | 58557 | *SLA-1\*0801* | 10.1 |  |  | ***SLA-2\*0502*** |  - | Hp-7.0 |
| *SLA-1\*1201/12Lw01/ 12hy01**SLA-1\*1301/0602* | 5.727.1 | ***SLA-3\*0502*** |  | *NS#7* | 57.0 | Hp-M.0 |
| A1PCR-SSP |  | *SLA-1\**08XX*SLA-1\**12XX*SLA-1\**13XX/06XX |  | *SLA-3\**05XX |  | *SLA-2\**05XX |  | ? |
| A2  | 55468  | *NS#1* | 31,4 | NS#9 | 0.3 | *NS#2* | 56.4 |  ? |
| *NS#4* | 11,4 | ND |  - | NS#6 |  0,4 |  ? |
| A3\*  | 71660  | *SLA-1\*01rh28/ 0102/0101* | 9,6 | ND  |  - | **SLA-2\*0101** |  - | Hp-1a.0 |
| *SLA-1\*0401/0402/04gx01* | 48,7 | *SLA-3\*0503/0504* |  33.2 | *SLA-2\*0801* | 8.5 | Hp-D.0 |
| A3PCR-SSP |  | *SLA-1\**01XX *SLA-1\**04XX*SLA-1\*1501* |  | *SLA-3\**05XX *SLA-3\**01XX  |  | *SLA-2\**01XX*SLA-2\**w08XX |  | ? |
| A4\*  | 111077  | *SLA-1\*0401/0402/04gx01* | 32 | *SLA-3\*0503/0504* | 25,9 | *SLA-2\*0801* | 11.7 | Hp-D.0 |
| *SLA-1\*1401* | 9.7 | *#SLA-3\*04hb06* | 6,1 | *SLA-2\*0602an07/ 060201*  | 14.4 | Hp-62.0 |
| A5\*  | 51272 | *SLA-1\*0201/0202/02we02**SLA-1\*0701/0702* | 10.323.1 | ND  |  - | *SLA-2\*0201* | 9.4 | Hp-2.0 |
| *SLA-1\*gz12/1401* | 2.8 | *SLA-3\*0502* | 35,2 | *SLA-2\*1003* | 19.1 | Hp-A.0 |
| B1\*    | 36989  | *SLA-1\*0201/0202/02we02* *SLA-1\*0701/0702* | 11,911,2 |  |   | *SLA-2\*0201* | 12,4 | Hp-2.0 |
| *SLA-1\*gz12/1401* | 13,8 | *#SLA-3\*0502* | 7.0 | *SLA-2\*1003* | 12,9 | Hp-A.0 |
| *#SLA-1\*gz03/05ms05/0803* | 6,4 |  |  | *#NS#7* | 2.1 |  |
| *#SLA-1\*1301/0602* | 6,7 |  |  | *#SLA-2\*10sk21* | 4.0 |  |
| *#SLA-1\*1201/12Lw01/ 12hy01* | 1.6 |  |  | *#SLA-2\*110101* | 5.9 |  |
| *#SLA-1\*08sk11* | 4.1 |  |  |  |  |  |
| B2\*  | 128335 | *SLA-1\*gz12/1401* | 29.0 | *#SLA-3\*0502* | 5,4 | *SLA-2\*1003* | 14,6 | Hp-A.0 |
| *SLA-1\*gz03/05ms05/0803* | 14.4 | *SLA-3\*0601* | 4.3 | *SLA-2\*1201/ 12Lw01* | 32.2 | Hp-B.0 |
| B3\*  | 92218  | *SLA-1\*0401/0402/04gx01* | 21,0 | *SLA-3\*0503/0504* | 5,8 | *SLA-2\*0801* | 9.5 | Hp-D.0 |
| *SLA-1\*1501/1502* | 34.5 | ***SLA-3\*070102*** |  - | *SLA-2\*0503* | 29.2 | Hp-28.0 |
| B4   | 128229 | *SLA-1\*08sk11* | 37,4 | *SLA-3\*0502* | 18.8 | *SLA-2\*10sk21* | 34.3 | Hp-E.0 |
| *SLA-1\*1401* | 8,1 |  |  | *SLA-2\*0602an07/ 060201* | 1 | Hp-62.0 |
|  | *SLA-2\*0202* | 0.4 |  ? |
| B5\*  | 62007  | *#SLA-1\*0801* | 24.1 | ND  |  - | *SLA-2\*0502* | 27.6 | Hp-7.0 |
| *SLA-1\*1201/12Lw01/12hy01**SLA-1\*1301/0602* | 9,917.4 | *#SLA-3\*0502* | 5,1 | *NS#7* | 15,8 | Hp-M.0 |
| C1\*  | 91956 | *SLA-1\*0801* | 18.1 | ***SLA-3\*070101******/07Lw02*** |  - | *SLA-2\*0502* | 25,4 | Hp-7.0 |
| *SLA-1\*1201/12Lw01/12hy01**SLA-1\*1301/ 0602* | 9,820,7 | *SLA-3\*0502* | 5,6 | NS#7 | 20,3 | Hp-M.0 |
| C2  | 87433  | *SLA-1\*gz03/ 05ms05/0803* | 97.4 | ND |  - | *SLA-2\*1201/**12Lw01* | 0.3 | Hp-B.0 |
| *SLA-1\*01rh28/ 0102/0101* | 2.3 | ND |  - | ND |  - |  ? |
| C3\*  | 137656 | *SLA-1\*0401/ 0402 /04gx01* | 25 | *SLA-3\*0503/0504* | 5,1 | *SLA-2\*0801* | 0,3 | Hp-D.0 |
| *#SLA-1\*1501/1502* | 28,7 | ***SLA-3\*070102*** |  - | *SLA-2\*0503* | 41.0 | Hp-28.0 |
| C4\*  | 144305  | *SLA-1\*1401* | 22.0 | *SLA-3\*04hb06* | 3.7 | *SLA-2\*0602an07**/060201* | 19.6 | Hp-62.0 |
| *SLA-1\*gz12/1401* | 24,6 | *SLA-3\*0502* | 12,6 | *SLA-2\*1003* | 17.5 | Hp-A.0 |
| C5\*  | 112004 | *SLA-1\*0201/02we02/0202**SLA-1\*0701/0702* | 14.11.7 | ND  |  - | ***SLA-2\*0201*** |  | Hp-2.0 |
| ***SLA-1\*gz12/1401*** | - | *SLA-3\*0502* | 0.8 | *SLA-2\*1003* | 83.4 | Hp-A.0 |
| D1  | 67057  | *SLA-1\*08sk11* | 28.0 | *SLA-3\*0502* | 4.6 | *SLA-2\*10sk21* | 35.7 | Hp-E.0 |
| *SLA-1\*gz03/05ms05/0803* | 31.4 | ND |  - | *SLA-2\*1201/**12Lw01* | 0,3 | Hp-B.0 |
| D2  | 107353 | *SLA-1\*0201/02we02/0202**SLA-1\*0701/0702* | 23,114,3 | ND |  - | *SLA-2\*0201* | 5,2 | Hp-2.0 |
| *SLA-1\*gz12/1401* | 4,6 | *SLA-3\*0502* | 7,5 | *SLA-2\*1003* | 45,2 | Hp-A.0 |
| D3\*  | 120281 | *SLA-1\*0201/02we02/0202* | 13,1 | ***SLA-3\*0101*** |  - | *SLA-2\*110101* | 19.3 | Hp-I.0 |
| *SLA-1\*1201/12Lw01/ 12hy01**SLA-1\*1301/0602**#SLA-1\*sk13**#SLA-1\*wy06* | 13,522.40.10.1 | *SLA-3\*0502* | 2,4 | *#NS#7* | 28,9 | Hp-M.0 |
| D4\*  | 71314  | *SLA-1\*01rh28/0102/0101* | 21,3 | ***SLA-3\*0101*** |  - | ***SLA-2\*0101*** |  - | Hp-1a.0 |
| *SLA-1\*1401* | 76,0 |  |  | *SLA-2\*0602an07**/060201* | 2.7 | Hp-62.0 |
| D5  | 83036  | *SLA-1\*0201/02we02/0202**SLA-1\*0701/0702* | 3,90.5 |  |  | ND |  - | Hp-2.0 |
| ND |  - |  |  | *SLA-2\*1003* | 95.6 | ? |
| E1\*  | 96025 | *SLA-1\*0801* | 19,9 | ND | -  | *SLA-2\*0502* | 0.5 | Hp-7.0 |
| *SLA-1\*1201/12Lw01/12hy01**SLA-1\*1301/0602* | 8,629,5 | SLA-3\*0502 |  0,3 | *NS#7* | 41.3 | Hp-M.0 |
| E2  | 72757  | *NS#1* | 20.0 | *NS#9* | 8.2 | *NS#6* | 32,0 |  ? |
| *NS#4* | 19.6 | *SLA-3\*03an04* | 3.8 | *NS#2* | 16,4 |  ? |
| E3\*  | 62543 | *SLA-1\*0801* | 20.5 | ***SLA-3\*070101******/07Lw02*** | -  | *SLA-2\*0502* | 4,0 | Hp-7.0 |
| *SLA-1\*1201/12Lw01/12hy01**SLA-1\*1301/0602* | 16,422,3 | SLA-3\*0502 | 2.4 | *NS#7* | 34,4 | Hp-M.0 |
| E4\*  | 95291  | *SLA-1\*1501/1502* | 44.3 | ***SLA-3\*070102*** |  - | *SLA-2\*0503* | 46,1 | Hp-28.0 |
| NS#20 | 2.1 | ***SLA-3\*04hb06*** |  - | *NS#10* | 7.5 | Hp-J.0 |
| E5  | 100875 | ND |  - | *SLA-3\*0502* | 2.3 | *SLA-2\*1003* | 82,3 | Hp-A.0 |
| *SLA-1\*0702/0701* | 5.7 | ND |  - | *SLA-2\*0202* | 9,6 | Hp-K.0 |
| F1    | 134799  | *SLA-1\*08sk11* | 41,2 | ND |  - | *SLA-2\*10sk21* | 40.2 | Hp-E.0 |
| *SLA-1\*1201/12Lw01/12hy01**SLA-1\*1301/0602* | 1,72.8 | *SLA-3\*0502* |  1.1 | *NS#7* | 3.3 | Hp-M.0 |
| *SLA-1\*0702/0701* | 2.1 | ND |  - | *SLA-2\*0202* | 3.9 | Hp-K.0 |
| *SLA-1\*0201/02we02/0202* | 1,4  | ND |  - | *SLA-2\*110101* | 2.4 | Hp-I.0 |
| F2\*   | 53880 | *SLA-1\*0201/02we02/0202* | 14.5 | ND |  - | *SLA-2\*110101* | 15.1 | Hp-I.0 |
| *SLA-1\*1201/12Lw01/12hy01**SLA-1\*1301/0602* | 12.813.2 | *#SLA-3\*0502* | 5.4 | *NS#7* | 19.7 | Hp-M.0 |
| *#SLA-1\*sk13* | 19.2 | *#SLA-3\*0101/ 01ev04/01rh12* | 0.1 | ***SLA-2\*0202/02we02*** |  - |  ? |
| F3  | 80700  | *SLA-1\*gz12/1401* | 28.3 | *SLA-3\*0502* | 4.0 | *SLA-2\*1003* | 20.0 | Hp-A.0 |
| *SLA-1\*gz03/05ms05/0803* | 15.4 | *SLA-3\*0601* | 3.0 | *SLA-2\*1201/ 12Lw01* | 29.3 | Hp-B.0 |
| F5\*  | 103587  | *SLA-1\*0401/0402/04gx01* | 54.7 | *SLA-3\*0503/0504* | 41.3 | *SLA-2\*0801* | 1.0 | Hp-D.0 |
| *SLA-1\*0101/0102/01rh28* | 3.0 | ***SLA-3\*0101*** | -  | ***SLA-2\*0101*** | -  | Hp-1a.0 |