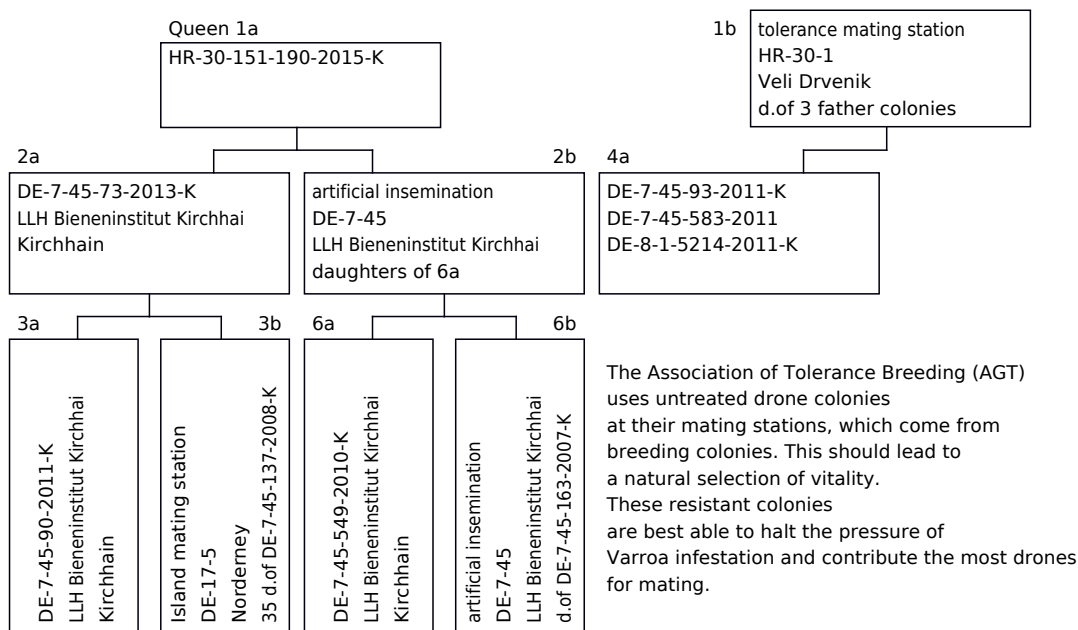


Tester of the queen: Hohmuth, Andreas, 08412 Werdau, DE-13-377, Apiary 1  
 Breeder of the queen: HR-30-151  
**1a** Studbook number: **HR-30-151-190-2015-K**

Race line: Sign: blue 81  
 Generation: Hatch date: Daughters of Queen: 5.5%  
 Workers: 0.0%

### A. Pedigree



### B. Own performance

| Performance test year                   | No. of the colony |                 |         | comparable colonies at the apiary |                  |
|---|-------------------|-----------------|---------|-----------------------------------|------------------|
|   | kg                | %               | Ranking | number                            | Yield average kg |
|   | 86.6              | 129.5           | 2       | 19                                | 66.9             |
|   | Assessment*       | Breeding values |         |                                   | Reliability      |
| <b>Total breeding value<sup>1</sup></b> | -                 | 119             |         |                                   |                  |
| Honey yield                             | -                 | 121             |         |                                   | 0.39             |
| Defensive behavior                      | 4                 | 116             |         |                                   | 0.6              |
| Steadiness on comb                      | 4                 | 117             |         |                                   | 0.63             |
| Swarming drive                          | 4                 | 119             |         |                                   | 0.4              |
| Varroa                                  | -                 | 109             |         |                                   | 0.5              |
| Performance index                       | -                 | 0               |         |                                   |                  |
| Robustness in winter                    | 4                 |                 | 70%     | 100%                              | 170%             |
| Development in Spring                   | 4                 |                 |         |                                   |                  |
| Colony strength                         | 4                 |                 |         |                                   |                  |

<sup>1</sup>In accordance with the resolution of the breeder convention of 9th April 2011, for the total breeding value, Varroa tolerance is weighted by 40% and honey yield, gentleness, calmness during inspection, and swarming tendency are each weighted by 15%.

### C. Performance of the sisters

See page 2

### D. Body features, see appendix

See attached characteristic documents:

### E. Results

#### Class Av

Selected for Varroa tolerance. Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations.

# Breeding selection report HR-30-151-190-2015-K

## Page 2

### Performance of the sisters

Amount of checked sisters: 28

| Studbook number      | Tester of the queen | Apiary | Total breeding value | Yield kg | Breeding Value Honey | Defensive behavior | Breeding Value Defensive | Calmness during inspection | Breeding Value Calmness | Swarming drive | Breeding Value Swarming | Varroa-index | Performance index |
|----------------------|---------------------|--------|----------------------|----------|----------------------|--------------------|--------------------------|----------------------------|-------------------------|----------------|-------------------------|--------------|-------------------|
| AT-99-364-1101-2015  | AT-99-364           | 1      | 104                  |          | 102                  |                    | Behavior                 |                            | during                  |                | drive                   | 116          |                   |
| AT-99-364-1102-2015  | AT-99-364           | 1      | 107                  |          | 107                  |                    | 99                       |                            | inspection              |                | 101                     | 111          |                   |
| AT-99-364-1103-2015  | AT-99-364           | 1      | 95                   |          | 82                   |                    | 97                       |                            | 96                      |                | 94                      | 101          |                   |
| AT-99-364-1104-2015  | AT-99-364           | 1      | 108                  |          | 116                  |                    | 100                      |                            | 100                     |                | 105                     | 108          |                   |
| AT-99-364-1105-2015  | AT-99-364           | 1      | 95                   |          | 110                  |                    | 93                       |                            | 95                      |                | 106                     | 90           |                   |
| AT-99-364-1106-2015  | AT-99-364           | 1      | 97                   |          | 105                  |                    | 99                       |                            | 101                     |                | 106                     | 89           |                   |
| AT-99-364-1107-2015  | AT-99-364           | 1      | 96                   |          | 102                  |                    | 99                       |                            | 100                     |                | 103                     | 91           |                   |
| AT-99-364-1108-2015  | AT-99-364           | 1      | 105                  |          | 107                  |                    | 99                       |                            | 99                      |                | 102                     | 106          |                   |
| AT-99-364-1109-2015  | AT-99-364           | 1      | 108                  |          | 120                  |                    | 101                      |                            | 101                     |                | 107                     | 105          |                   |
| AT-99-364-1110-2015  | AT-99-364           | 1      | 104                  |          | 110                  |                    | 100                      |                            | 100                     |                | 104                     | 102          |                   |
| AT-99-364-1111-2015  | AT-99-364           | 1      | 98                   |          | 86                   |                    | 97                       |                            | 96                      |                | 95                      | 105          |                   |
| AT-99-364-1112-2015  | AT-99-364           | 1      | 105                  |          | 108                  |                    | 99                       |                            | 99                      |                | 102                     | 107          |                   |
| AT-99-364-1113-2015  | AT-99-364           | 1      | 96                   |          | 102                  |                    | 92                       |                            | 93                      |                | 101                     | 97           |                   |
| AT-99-364-1114-2015  | AT-99-364           | 1      | 52                   |          | 70                   |                    | 44                       |                            | 45                      |                | 52                      | 78           |                   |
| AT-99-364-1115-2015  | AT-99-364           | 1      | 85                   |          | 76                   |                    | 96                       |                            | 98                      |                | 98                      | 82           |                   |
| AT-99-364-1116-2015  | AT-99-364           | 1      | 107                  |          | 101                  |                    | 99                       |                            | 97                      |                | 97                      | 116          |                   |
| AT-99-364-1117-2015  | AT-99-364           | 1      | 105                  |          | 93                   |                    | 98                       |                            | 96                      |                | 94                      | 117          |                   |
| HR-30-151-110-2015   | AT-99-697           | 2      | 114                  |          | 116                  |                    | 111                      |                            | 111                     |                | 111                     | 109          |                   |
| HR-30-151-299-2015   | AT-99-697           | 2      | 92                   |          | 91                   |                    | 83                       |                            | 82                      |                | 93                      | 104          |                   |
| HR-30-151-166-2015   | DE-2-176            | 4      | 94                   |          | 96                   |                    | 92                       |                            | 92                      |                | 88                      | 99           |                   |
| HR-30-151-218-2015   | DE-2-176            | 4      | 87                   |          | 93                   |                    | 91                       |                            | 93                      |                | 104                     | 82           |                   |
| HR-30-151-219-2015   | DE-2-176            | 4      | 81                   |          | 87                   |                    | 86                       |                            | 88                      |                | 100                     | 77           |                   |
| HR-30-151-221-2015   | DE-2-176            | 4      | 93                   |          | 92                   |                    | 96                       |                            | 97                      |                | 104                     | 90           |                   |
| HR-30-151-222-2015   | DE-2-176            | 4      | 73                   |          | 85                   |                    | 77                       |                            | 79                      |                | 78                      | 78           |                   |
| HR-30-151-288-2015   | DE-2-240            | 4      | 101                  |          | 104                  |                    | 92                       |                            | 92                      |                | 93                      | 108          |                   |
| HR-30-151-292-2015   | DE-2-240            | 4      | 103                  |          | 109                  |                    | 93                       |                            | 92                      |                | 110                     | 104          |                   |
| HR-30-151-190-2015-K | DE-13-377           | 1      | 119                  | 86.6     | 121                  | 4                  | 116                      | 4                          | 117                     | 4              | 119                     | 109          |                   |
| HR-30-151-210-2015   | DE-13-377           | 1      | 104                  | 79.3     | 109                  | 3.5                | 96                       | 3.6                        | 96                      | 4              | 107                     | 106          |                   |