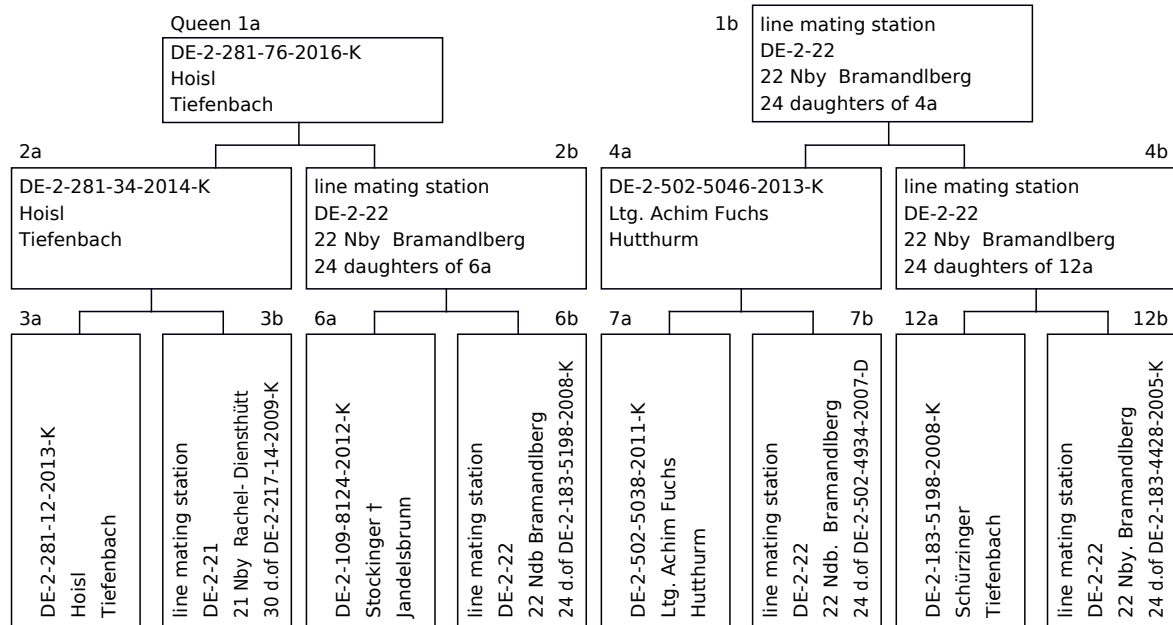


Tester of the queen: Hoisl, Emma, 94113 Tiefenbach, DE-2-281, Apiary 1
 Breeder of the queen: Hoisl, Emma, 94113 Tiefenbach, DE-2-281
1a Studbook number: **DE-2-281-76-2016-K**

Race line: Sign: white
 Generation: 3 Hatch date: 28.05.2016

Daughters of Queen: 3.2%
 Workers: 9.2%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony | | | comparable colonies at the apiary | |
|---|-------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 55 | 93.5 | 4 | 5 | 58.8 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 113 | | | |
| Honey yield | - | 103 | | | 0.41 |
| Defensive behavior | 3.50 | 122 | | | 0.58 |
| Steadiness on comb | 4 | 123 | | | 0.58 |
| Swarming drive | 4 | 91 | | | 0.38 |
| Varroa | - | (109) | | | 0.18 |
| Performance index | - | 0 | | | |
| Robustness in winter | | | 70% | 100% | 170% |
| Development in Spring | | | | | |
| Colony strength | | | | | |

¹In 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 B
 Suitable for breeding.

Breeding selection report DE-2-281-76-2016-K

Page 2

Performance of the sisters

Amount of checked sisters: 26

| 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 |
|---------------------|---------------------|--------|----------------------|----------|----------------------|--------------------|--------------------------|----------------------------|-------------------------|----------------|-------------------------|--------------|-------------------|
| DE-2-281-27-2017 | DE-2-281 | 1 | 90 | 33 | 93 | 4 | Behavior | 3.5 | ding | 4 | ding | (93) | 89 |
| DE-2-281-52-2017-K | DE-2-281 | 1 | 110 | 29 | 101 | 4 | 121 | 4 | inspection 118 | 4 | 94 | (106) | |
| DE-2-281-81-2017 | DE-2-281 | 1 | 91 | 35.5 | 94 | 3.5 | 95 | 4 | 97 | 4 | 81 | (93) | 90 |
| DE-2-281-136-2017 | DE-2-281 | 1 | 88 | 29.5 | 92 | 3 | 90 | 3.5 | 90 | 4 | 77 | (93) | 85 |
| DE-2-281-39-2017 | DE-2-281 | 2 | 90 | 35 | 93 | 4 | 97 | 3.5 | 91 | 4 | 78 | (93) | 88 |
| DE-2-281-51-2017-K | DE-2-281 | 2 | 110 | 37.5 | 106 | 4 | 118 | 4 | 116 | 4 | 94 | (106) | |
| DE-2-281-58-2017 | DE-2-281 | 2 | 90 | 40.5 | 95 | 3.5 | 92 | 4 | 94 | 4 | 81 | (93) | 89 |
| DE-2-281-131-2017-K | DE-2-281 | 2 | 111 | 42 | 111 | 4 | 117 | 4 | 115 | 4 | 94 | (106) | |
| DE-2-281-133-2017 | DE-2-281 | 2 | 90 | 34.5 | 92 | 3.5 | 93 | 4 | 96 | 4 | 79 | (93) | 88 |
| DE-2-281-149-2017 | DE-2-281 | 2 | 86 | 25 | 88 | 3.5 | 90 | 3.5 | 89 | 4 | 73 | (93) | 82 |
| DE-2-281-50-2016 | DE-2-281 | 1 | 111 | 65 | 115 | 3.5 | 112 | 3.5 | 109 | 4 | 91 | (109) | |
| DE-2-281-54-2016 | DE-2-281 | 1 | 114 | 61.5 | 110 | 4 | 123 | 3.5 | 117 | 4 | 92 | (109) | |
| DE-2-281-57-2016-K | DE-2-281 | 1 | 110 | 63 | 113 | 3.5 | 112 | 3.5 | 109 | 4 | 91 | (109) | |
| DE-2-281-76-2016-K | DE-2-281 | 1 | 113 | 55 | 103 | 3.5 | 122 | 4 | 123 | 4 | 91 | (109) | |
| DE-2-281-77-2016 | DE-2-281 | 1 | 102 | 49.5 | 96 | 3 | 104 | 3.5 | 104 | 4 | 87 | (109) | |
| DE-2-281-19-2016** | DE-2-501 | 1 | 110 | | (107) | | (115) | | (112) | | (90) | (109) | |
| DE-2-281-15-2016-K | DE-2-501 | 2 | 105 | | 112 | | 101 | | 92 | | 95 | 109 | |
| DE-2-281-16-2016-K | DE-2-501 | 2 | 112 | | 112 | | 114 | | 113 | | 98 | 107* | |
| DE-2-281-17-2016-K | DE-2-501 | 2 | 113 | | 114 | | 117 | | 117 | | 84 | 111 | |
| DE-2-281-18-2016-K | DE-2-501 | 2 | 116 | | 100 | | 116 | | 114 | | 96 | 121 | |
| DE-2-281-42-2016-K | DE-2-502 | 2 | 112 | | 110 | | 121 | | 119 | | 94 | 104 | |
| DE-2-281-43-2016-K | DE-2-502 | 2 | 126 | | 103 | | 138 | | 133 | | 96 | 121 | |
| DE-2-281-44-2016** | DE-2-502 | 2 | 110 | | (107) | | (115) | | (112) | | (90) | (109) | |
| DE-2-281-45-2016** | DE-2-502 | 2 | 110 | | (107) | | (115) | | (112) | | (90) | (109) | |
| DE-2-281-46-2016** | DE-2-502 | 2 | 110 | | (107) | | (115) | | (112) | | (90) | (109) | |
| DE-2-281-24-2016 | DE-2-503 | 3 | 109 | | 111 | | 123 | | 121 | | 63 | 109* | |

Only one Varroa trait was recorded

Colony without performance tests