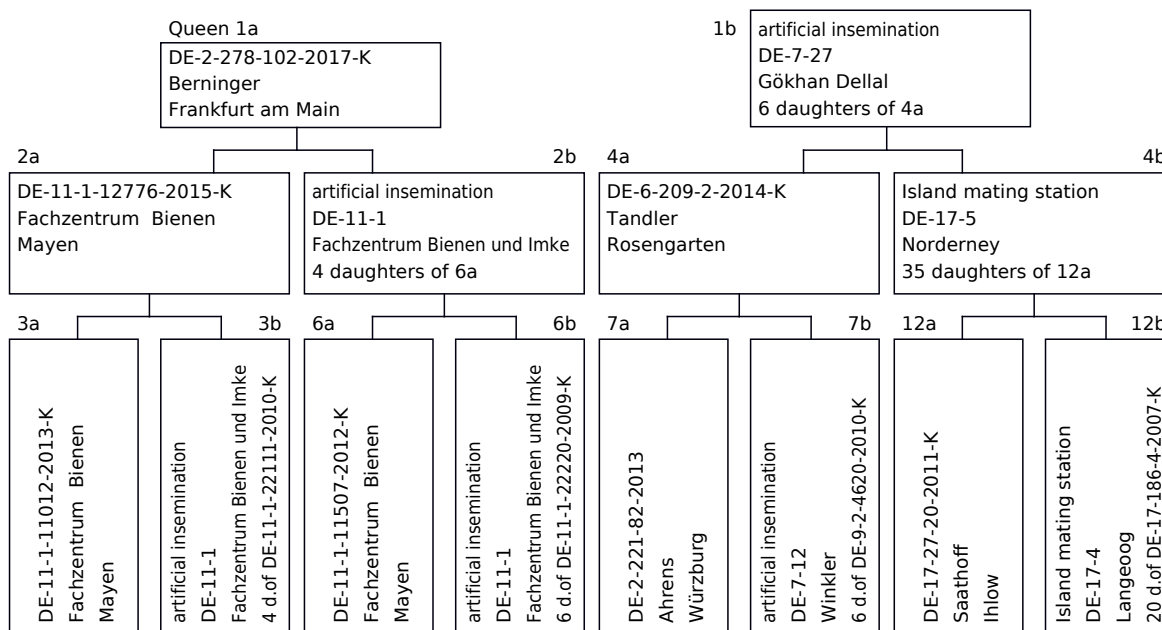


Tester of the queen: Ltg. Achim Fuchs, Prüfhof Kringell, 94116 Hutthurm, DE-2-502, Apiary 2
 Breeder of the queen: Berninger, Andreas, 60386 Frankfurt am Main, DE-2-278
1a Studbook number: **DE-2-278-102-2017-K**

Race line: Sign: yellow 51
 Generation: Hatch date: 9.5.2017

Daughters of Queen: 4.6%
 Workers: 1.0%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 1210			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	19.5	142.4	2	50	13.7
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	120	[Bar chart]		
Honey yield	-	113	[Bar chart]		
Defensive behavior	3.30	134	[Bar chart]		
Steadiness on comb	3.20	132	[Bar chart]		
Swarming drive	3	103	[Bar chart]		
Varroa	-	102	[Bar chart]		
Performance index	-	0	[Bar chart]		
Robustness in winter	2	70% 100% 170%			
Development in Spring	2.50				
Colony strength	3				

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 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 DE-2-278-102-2017-K

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Performance of the sisters

Amount of checked sisters: 15

Studbook number	Tester of the queen	Apiary	Total breeding value	Yield kg	Breeding Value Honey	Defensive behavior	Breeding Value Defensive Behavior	Calmness during inspection	Breeding Value Calmness	Swarming drive	Breeding Value Swarming	Varroa-index	Performance index
DE-2-278-101-2017-K	DE-2-502	2	99	15.5	109	2.5	109	2.5	109	3	109	102	
DE-2-278-102-2017-K	DE-2-502	2	120	19.5	113	3.3	134	3.2	132	3	103	102	
DE-2-278-103-2017-K	DE-2-502	2	97	12	104	2.3	88	2.4	87	4	107	100	
DE-2-278-104-2017-K	DE-2-502	2	115	13	105	3	122	3	120	3	100	109	
DE-2-278-105-2017**	DE-2-502	2	112		(108)		(108)		(106)		(108)	(110)	
DE-2-278-106-2017**	DE-2-502	2	112		(108)		(108)		(106)		(108)	(110)	
DE-2-278-107-2017**	DE-2-502	2	112		(108)		(108)		(106)		(108)	(110)	
DE-2-278-108-2017**	DE-2-502	2	112		(108)		(108)		(106)		(108)	(110)	
DE-2-278-109-2017**	DE-2-502	2	112		(108)		(108)		(106)		(108)	(110)	
DE-2-278-110-2017**	DE-2-502	2	112		(108)		(108)		(106)		(108)	(110)	
DE-2-278-111-2017**	DE-2-503	3	112		(108)		(108)		(106)		(108)	(110)	
DE-2-278-112-2017	DE-2-503	3	106		110		91		91		111	110	
DE-2-278-113-2017-K	DE-2-503	3	104		113		120		116		94	88	
DE-2-278-114-2017**	DE-2-503	3	112		(108)		(108)		(106)		(108)	(110)	
DE-2-278-115-2017**	DE-2-503	3	112		(108)		(108)		(106)		(108)	(110)	

Colony without performance tests