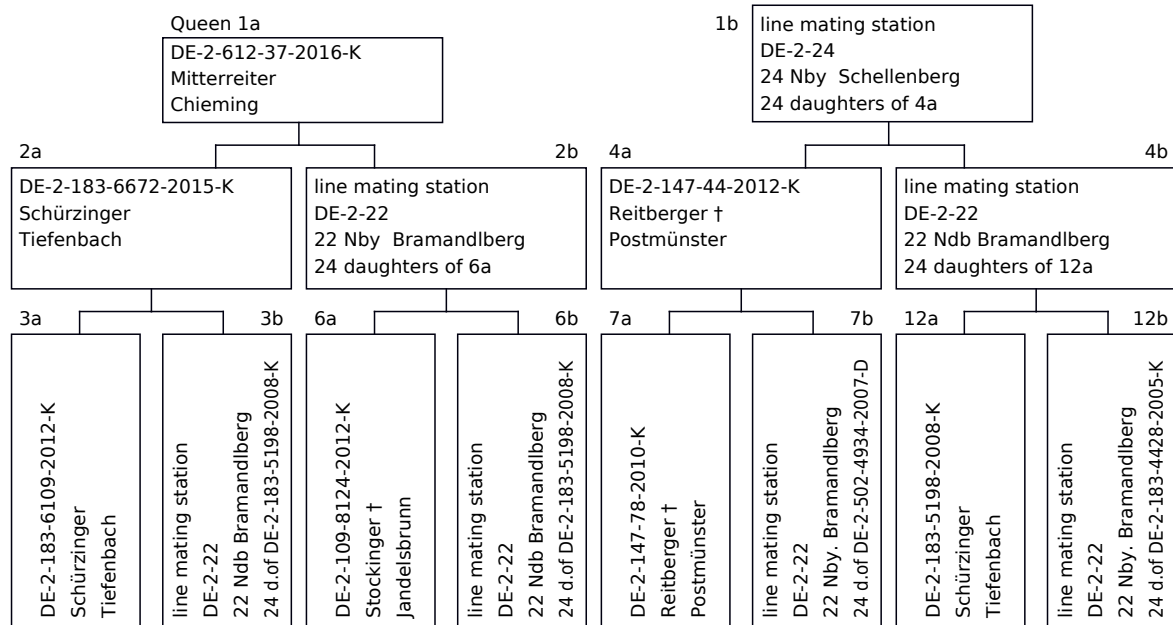


Tester of the queen: Ltg. Achim Fuchs, Prüfhof Kringell, 94116 Hutthurm, DE-2-502, Apiary 2
 Breeder of the queen: Mitterreiter, Luise, 83339 Chieming, DE-2-612
1a Studbook number: **DE-2-612-37-2016-K**

Race line: Sign: white 39
 Generation: 1 Hatch date: 23.05.2016

Daughters of Queen: 16.3%
 Workers: 12.5%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	98.3	162.8	1	48	60.4
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	125			
Honey yield	-	139			0.49
Defensive behavior	2.90	111			0.69
Steadiness on comb	3.50	113			0.69
Swarming drive	4	100			0.47
Varroa	-	121			0.37
Performance index	-	0			
Robustness in winter	4		70%	100%	170%
Development in Spring	4				
Colony strength	3.80				

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-2-612-37-2016-K

Page 2

Performance of the sisters

Amount of checked sisters: 18

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-2-612-55-2016**	DE-2-501	1	105		(107)		Behavior		queen inspection (102)		queen (91)	(108)	
DE-2-612-56-2016**	DE-2-501	1	105		(107)		(105)		inspection (102)		(91)	(108)	
DE-2-612-57-2016-K	DE-2-501	1	103		114		98		94		96	106	
DE-2-612-58-2016**	DE-2-501	1	105		(107)		(105)		(102)		(91)	(108)	
DE-2-612-59-2016	DE-2-501	1	101		(105)		109		102		73	(108)	
DE-2-612-33-2016-K	DE-2-502	2	91	48.5	97	2.6	100	2.8	98	4	92	87	
DE-2-612-34-2016**	DE-2-502	2	105		(107)		(105)		(102)		(91)	(108)	
DE-2-612-35-2016-K	DE-2-502	2	109	70.1	115	3.1	114	3.1	111	4	97	102	
DE-2-612-37-2016-K	DE-2-502	2	125	98.3	139	2.9	111	3.5	113	4	100	121	
DE-2-612-38-2016-K	DE-2-502	2	116	59.2	105	3.2	119	3.2	116	4	96	115	
DE-2-612-29-2016-K	DE-2-503	3	110		106		117		117		80	112	
DE-2-612-32-2016	DE-2-503	3	85		105		80		77		59	108*	
DE-2-612-87-2016	DE-2-612	1	106		102		110		105		92	(108)	
DE-2-612-88-2016	DE-2-612	1	102		101		102		100		91	(108)	
DE-2-612-89-2016	DE-2-612	1	111		111		114		112		94	(108)	
DE-2-612-90-2016	DE-2-612	1	110		108		114		112		94	(108)	
DE-2-612-92-2016	DE-2-612	1	103		104		102		99		91	(108)	
DE-2-612-93-2016	DE-2-612	1	104		112		101		98		92	(108)	

Only one Varroa trait was recorded

Colony without performance tests