Table 2: Least-square means and standard errors (± S.E) for body weight (g.) at different ages for lines by generation in Dokki-4 strain.

	Line.	Body weight (g.)at									
Generation		hatch		4-w	veek		/eek	12-week			
		M	F	M	F	M	F	M	F		
Base	1	33.38±0.15	32.27±0.14	214.3±1.96	209.1±1.89	548.5±4.17	489.2±4.03	828.0±5.50	722.5±5.32		
Generation	2	33.16±0.25	32.35±0.24	212.1±3.39	209.7±3.24	545.9±7.22	491.2±6.90	825.3±9.32	729.8±9.11		
1 st	1	32.46±0.15	32.60±0.13	231.2±2.06	223.4±1.81	576.6±4.39	521.8±3.86	800.5±5.79	705.6±5.10		
generation	2	32.96±0.26	33.07±0.24	236.2±3.58	229.8±3.16	597.3±7.62	529.7±6.72	899.6±10.05	780.0±8.86		
2 nd	1	32.40±0.15	32.91±0.13	216.5±2.06	215.9±1.81	551.6±4.39	489.1±3.86	825.2±5.79	727.8±5.10		
generation	2	32.26±0.26	32.51±0.24	249.3±3.58	240.1±3.16	601.4±7.62	574.7±6.72	952.4±10.05	818.9±8.86		
Effect of gen	. 0	32.33±0.06		210.69±0.74°		510.66±2.29°		762.93±3.91 °			
	1		32.81±0.06		226.77±0.73 ^b		542.04±229 ^b		809.63±3.18 ^b		
	2	32.55±0.07		236.70 ± 0.66^{a}		568.66±2.16 ^a		844.88±2.54 ^a			
Effect of line	1	32.44 ± 0.09^{b}		214.35±1.56 ^b		515.53	3±3.32 ^b	772.70	±4.39 ^b		
	2	32.59 ± 0.07^{a}		229.35 ± 0.87^{a}		551.34±2.28 ^a		810.45±2.74 ^a			
Effect of sex	M	32.48±0.06		227.91±1.01		572.96±2.39 ^a		874.46±3.13 ^a			
	F	32.60±0.10		223.40±0.96		521.76±2.92 ^b		755.55±1.90 ^b			
Significance											
Generation	Generation		NS		*		*		*		
Line	Line		*		**		*		**		
Sex.		NS		NS		**		**			
Gen * Line		*		**		**		**			
Line* Sex	Line* Sex		NS		*		*				
Gen.* Line*	Gen.* Line* Sex		NS		NS		*		*		

a,b Means in each column in each classification Bering different letters, differ significantly (P<0.5).

^{*=} Significant (P<0.5), **= Significantly (P < 0.01), NS= Not significant, L1= Unselected line (CL), L2 = Selected line (SL).

Table 3: Least-square means and standard errors (± S.E) of daily weight gain (gram/day) at different age for lines by generation in Dokki-4 strain

Daily gain (gram/day)										
Generation	Line.	(0-4 week)		(4-8 week)		(8-12)	week)	(0-8 week)		
		M	F	M	F	M	F	M	F	
Base	1	6.49±0.029	6.32±0.028	10.93±0.137	10.00±0.122	9.96±0.205	8.31±0.198	9.22±0.226	8.15±0.219	
generation	2	6.42±0.051	6.33±0.049	11.92±0.237	10.05±0.227	9.95±0.355	8.50±0.340	9.17±0.391	8.19±0.374	
1 st	1	7.09±0.031	6.81±0.027	12.34±0.144	10.65±0.127	10.56±0.216	8.68±0.190	9.72±0.238	8.73±0.209	
generation	2	7.26±0.054	7.03±0.048	12.90±0.250	10.70±0.220	10.78±0.375	8.92±0.331	10.08±0.413	8.87±0.364	
2 nd	1	6.57±0.031	6.53±0.027	11.96±0.144	9.75±0.127	9.75±0.216	8.50±0.190	9.26±0.238	8.14±0.209	
generation	2	7.75±0.054	7.31±0.048	12.56±0.250	11.95±0.220	12.54±0.375	8.70±0.331	10.16±0.413	9.68±0.364	
Effect of ger	Effect of gen. 0		6.37 ± 0.021^{a}		10.71 ± 0.095^{a}		8.91 ± 0.142^{c}		8.54 ± 0.156^{c}	
1		6.93 ± 0.020^{b}		11.26 ± 0.094^{b}		9.54 ± 0.144^{b}		9.09± 0.159 ^b		
2		7.29 ± 0.020^{a}		11.85 ± 0.094^{a}		9.85 ± 0.144^{a}		9.57± 0.159 ^a		
Effect of line	: 1	6.49 ± 0.014^{a}		10.75 ± 0.068^{a}		9.16 ± 0.101^{a}		8.62± (
	2	7.03 ± 0.025^{b}		11.50 ± 0.117^{b}		9.59 ± 0.175^{b}		9.26 ± 0.193^{b}		
Effect of sex	Effect of sex M		6.99 ± 0.022^{a}		$12.32. \pm 0.111^{a}$		10.75 ± 0.15^{a}		0.16^{a}	
	F	6.81 ± 0.019^{b}		10.65 ± 0.110^{b}		8.68 ± 0.21^{b}		8.73 ± 0.15^{b}		
Significance										
Generation	Generation		*		*		*		*	
Line		*		*		*		*		
Sex.		NS		**		**		**		
Gen * Line		*		*		*		*		
Line* Sex		NS		*		*		*		
Gen.* Line* Sex		NS		*		Ns		*		

a,b Means in each column in each classification Bering different letters, differ significantly (P<0.5).

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Table 4: Least-square means and standard errors (± S.E) of feed conversion (gram/day) at different age for lines by generation in Dokki-4 strain

	Line.	Feed conversion (gram feed/ gain)								
Generation.		(0-4 week)		(4-	8 week)	(8-12 week)				
		M F		M	F	M	F			
Pasa ganaration	1	5.11±0.033	5.16±0.032	5.07±0.077	6.33±0.075	7.18±0.076	8.70±0.076			
Base generation	2	5.03±0.057	5.12±0.055	4.84±0.134	5.89±0.128	6.69±0.13	8.55±0.127			
1 st generation	1	4.38±0.035	4.63±0.030	4.35±0.081	5.16±0.071	5.96±0.080	7.81±0.071			
1 generation	2	4.18±0.060	4.28±0.053	3.96±0.141	4.64±0.124	5.82±0.140	7.46±0.123			
2 nd generation	1	4.77±0.035	4.84±0.030	4.66±0.081	5.65±0.071	6.98±0.080	7.87±0.071			
	2	3.80±0.060	4.15±0.053	3.97±0.141	4.19 ± 0.124	4.83±0.140	7.27±0.123			
Effect of gen. 0		$\begin{array}{c} 5.10 \pm 0.023^{a} \\ 4.47 \pm 0.023^{b} \\ 4.21 \pm 0.016^{b} \end{array}$		5.6	1±0.053 ^a	7.96±0.053 ^b				
1				4.7	3±0.054 ^a	6.98±0.054 ^a				
2				4.3	7±0.038 ^b	6.64 ± 0.038^{a}				
Effect of line 1		4.95±0.02 ^b		5.48 ± 0.066^{b}		7.56±	0.065 ^b			
2		4.43±0.02 ^a		4.6	64 ± 0.06^{a}	7.01 ± 0.06^{a}				
Effect of sex M		4.50±0.02 ^b		4.42 ± 0.05^{a}		6.13±0.05 ^a				
F		4.63±0.02 ^b		5.1	6±0.05 ^b	7.81 ± 0.05^{b}				
Significance	Significance									
Generation		*		*		*				
Line		*		*		*				
Sex.		*		*		*				
Gen * Line		NS		*		*				
Line*Sex			NS		NS	*				
Gen.* Line* Sex		*			*	Ns				

a,b Means in each column in each classification Bering different letters, differ significantly (P<0.5).

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Table 5: Least-square means and standard errors (± S.E) of body measurements (shank length, keel and body circumference) during growing period for lines and by generation in Dokki-4 strain.

~	Line	Sex	Shank Length			Keel Length			Body circumference		
Gen.			4 -week	8-week	12 -week	4- week	8-week	12-week	4- week	8-week	12-week
Base Gen	1	1	4.53±0.19	6.48±0.18	7.62±0.17	4.85±0.21	6.29±0.24	7.99±0.35	12.81±0.14	18.29±0.42	23.41±0.64
		2	4.30±0.18	5.70±0.17	7.10±0.18	4.70±0.20	6.10±0.32	7.75±0.33	12.10±0.40	16.11±0.44	20.62±0.62
	2	1	4.46±0.33	6.41±0.32	7.58±0.32	4.79±0.37	6.20±0.42	7.91±0.59	12.94±0.72	18.30±0.78	23.61±1.11
•		2	4.28±0.32	5.50±0.30	6.98±0.28	4.65±0.35	6.14±0.39	7.80±0.56	12.06±0.68	16.22±0.74	19.89±1.06
1 st	1	1	4.71±0.20	6.98±0.19	7.90±0.19	5.58±0.22	7.91±0.25	8.76±0.36	14.32±0.44	16.22±0.47	24.16±0.67
Gen	1	2	4.51±0.18	6.15±0.17	7.48±0.16	5.10±0.22	6.98±0.32	8.12±0.38	14.11±0.38	18.45±0.42	22.32±0.59
	_	1	4.43±0.35	6.38±0.34	7.52±0.33	4.92±0.39	6.27±0.44	7.89±0.63	13.12±0.76	18.46±0.82	23.52±1.17
	2	2	4.31±0.30	5.62±0.29	7.01±0.08	4.70±0.34	6.15±0.39	7.75±0.55	12.86±0.67	16.56±0.72	20.11±1.03
and		1	4.86±0.21	7.42±0.25	8.46±0.37	5.82±0.13	7.98±0.41	9.95±0.28	15.98±0.63	22.68±0.63	25.78±0.29
2 nd	1	2	4.68±0.16	6.85±0.09	7.65±0.26	5.49±0.15	7.56±0.51	8.89±0.23	15.06±0.18	19.86±0.32	23.50±0.24
Gen	2	1	4.45±0.24	6.45±0.25	7.62±0.16	5.10±0.17	6.38±0.39	7.90±0.46	13.06±0.28	18.61±0.16	23.40±0.32
•		2	4.31±0.23	6.10±0.32	7.12±0.16	4.91±0.13	6.21±0.51	7.82±0.36	12.99±0.27	16.88±0.36	20.67±0.27
Gen. 6	effect	0	4.39±0.13°	6.09±0.17 ^b	7.32±0.12 ^b	4.74±0.15 ^b	6.18±0.16 ^b	7.86±0.24 ^b	12.47±0.29 ^b	17.23±0.31 ^b	21.88±0.32 ^b
oun.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	4.48±0.11 ^b	6.37±0.12 ^b	7.48±0.13 ^b	5.08±0.15 ^a	6.72±0.17 ^a	8.18±0.24 ^a	13.60±0.29 ^a	18.48±0.45 ^a	22.53±0.45 ^a
		2	4.60 ± 0.12^{a}	6.63±0.14 ^a	7.63±0.16 ^a	5.33±0.16 ^a	7.03±0.26	8.64±0.18	14.27±0.45 ^a	19.51±0.35 ^a	23.34±0.42 ^a
Line 6	effect	1	4.38±0.16 ^b	6.13±0.16 ^b	7.30±0.16 ^b	4.79±0.18 ^b	6.23±0.21 ^b	7.84±0.29 ^b	12.84±0.36 ^b	17.50±0.39 ^b	18.93±0.55 ^b
		2	4.60±0.09 ^a	6.65±0.09 ^a	7.78±0.10 ^a	5.27±0.11 ^a	7.07±0.12 ^a	8.61±0.12 ^a	14.06±0.17 ^a	19.31±0.21 ^a	21.27±0.32 ^a
Sex ef	fect	M	4.57±0.14 NS	6.69±0.13 ^a	7.78±0.13 ^a	5.18±0.16 ^a	6.72±0.17 ^a	8.43±0.25 ^a	13.71±0.30 ^a	19.31±0.33 ^a	24.83±0.47 ^a
		F	4.41±0.13 NS	6.04±0.12 ^b	7.22±0.12 ^b	4.92±0.14 ^b	6.52±0.16 ^b	8.02±0.23 ^b	13.20±0.28 ^b	17.50±0.30 ^b	20.85±0.43 ^b
Signifi	cance:						•	•			
<u>Generation</u>			*	*	*	*	*	*	**	**	**
Line			Ns	*	*	*	*	*	**	**	**
Sex.			Ns	*	*	Ns	*	*	**	**	**
Gen * Line			Ns	Ns	*	Ns	Ns	NS	Ns	*	*
Line*	Sex		*	*	*	*	*	*	*	*	*
Gen.*	Line* S	Sex	Ns	*	Ns	Ns	*	*	*	*	*

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