

GWAS Analysis	Chromosome	SNP	P-value
Doodle (Large)	2942 (43.57%)	1	< 0.001
	3811 (56.43%)	1.10 (1.05-1.15)	
Doodle (Small)	2773 (41.06%)	1	< 10 <sup>-16</sup>
	3980 (58.94%)	0.79 (0.76-0.83)	
No <i>FGF4L1</i> dogs	3826 (56.66%)	1	< 0.0001
	2927 (43.34%)	1.79 (1.70-1.88)	
Mixed breed only	522 (7.73%)	1	< 10 <sup>-16</sup>
	2072 (30.68%)	7.60 (6.90-8.36)	
	332 (4.92%)	1.52 (1.32-1.74)	
	3827 (56.67%)	1.61 (1.47-1.77)	

GWAS Analysis	Chromosome	SNP	P-value	Gene
No <i>FGF4L1</i> dogs	3	3:91269525	1.51E-09	<i>LCORL</i>
	6	6:9777717	1.94E-08	<i>CYP3A26</i>
	8	8:880421	2.38E-08	
Doodle (Large)	3	3:91269525	4.42E-15	<i>LCORL</i>
Doodle (Small)	18	18:20444999	2.56E-09	<i>FGF4L1</i>
Mixed breed only	6	6:9777717	4.07E-11	<i>CYP3A26</i>
	8	8:880421	2.22E-10	
	17	17:57776247	1.02E-08	<i>CHD1L</i>
	22	22:24394293	6.42E-08	<i>KLHL1</i>
	32	32:4842721	6.48E-09	<i>C32H4orf2</i>