

		Genotype I			Genotype II																				Genotype III	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Genotype I	1. MG181946 KAS25-LOK-TR2017		100.0	100.0	97.0	97.7	99.0	99.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.7	99.7	99.7	99.3	99.3	99.0	98.7	98.7	98.7	91.7	
	2. MG181944 KAS21-LOK-TR2017	100.0		100.0	97.0	97.7	99.0	99.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.7	99.7	99.7	99.3	99.3	99.0	98.7	98.7	98.7	91.7	
	3. MG181945 KAS24-LOK-TR2017	100.0	100.0		97.0	97.7	99.0	99.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.7	99.7	99.7	99.3	99.3	99.0	98.7	98.7	98.7	91.7	
Genotype II	4. JX644989 U-NS66-TR2009	97.0	97.0	97.0		95.3	96.7	96.7	96.3	96.3	97.7	97.7	97.7	97.7	97.0	97.3	97.3	97.3	97.7	97.7	96.7	96.3	96.3	96.3	89.3	
	5. GQ375280 YL	97.7	97.7	97.7	95.3		98.7	98.7	98.7	98.7	97.7	97.7	97.7	97.7	97.7	98.0	98.0	98.0	97.7	97.7	98.7	98.7	98.7	98.7	90.3	
	6. KX192363 ANK-Br-TR2015	99.0	99.0	99.0	96.7	98.7		100.0	99.7	99.7	99.0	99.0	99.0	99.0	99.0	99.3	99.3	99.3	99.0	99.0	100.0	99.7	99.7	99.7	91.3	
	7. JX644988 KC-B12-TR2009	99.0	99.0	99.0	96.7	98.7	100.0		99.7	99.7	99.0	99.0	99.0	99.0	99.0	99.3	99.3	99.3	99.0	99.0	100.0	99.7	99.7	99.7	91.3	
	8. GQ246863 TG-4	98.7	98.7	98.7	96.3	98.7	99.7	99.7		100.0	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.0	98.7	98.7	99.7	100.0	100.0	100.0	91.7	
	9. GQ246866 strain TG-1	98.7	98.7	98.7	96.3	98.7	99.7	99.7	100.0		98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.0	98.7	98.7	99.7	100.0	100.0	100.0	91.7	
	10. GQ246864 strain Kc-12	99.3	99.3	99.3	97.7	97.7	99.0	99.0	98.7	98.7		100.0	100.0	100.0	99.3	99.7	99.7	99.7	100.0	100.0	99.0	98.7	98.7	98.7	91.7	
	11. KX192365. ANK-Teat-TR2014	99.3	99.3	99.3	97.7	97.7	99.0	99.0	98.7	98.7	100.0		100.0	100.0	99.3	99.7	99.7	99.7	100.0	100.0	99.0	98.7	98.7	98.7	91.7	
	12. EU055543 K339	99.3	99.3	99.3	97.7	97.7	99.0	99.0	98.7	98.7	100.0	100.0		100.0	99.3	99.7	99.7	99.7	100.0	100.0	99.0	98.7	98.7	98.7	91.7	
	13. KX192364 ANK-NS-TR2014	99.3	99.3	99.3	97.7	97.7	99.0	99.0	98.7	98.7	100.0	100.0	100.0		99.3	99.7	99.7	99.7	100.0	100.0	99.0	98.7	98.7	98.7	91.7	
	14. GQ246865 SB-9	99.3	99.3	99.3	97.0	97.7	99.0	99.0	98.7	98.7	99.3	99.3	99.3	99.3		99.7	99.7	99.7	99.3	99.3	99.0	98.7	98.7	98.7	91.7	
	15. GQ246867 T-6	99.7	99.7	99.7	97.3	98.0	99.3	99.3	99.0	99.0	99.7	99.7	99.7	99.7	99.7		100.0	100.0	99.7	99.7	99.3	99.0	99.0	99.0	92.0	
	16. MH318579 (B1 AC4-TR2017)	99.7	99.7	99.7	97.3	98.0	99.3	99.3	99.0	99.0	99.7	99.7	99.7	99.7	99.7	100.0		100.0	99.7	99.7	99.3	99.0	99.0	99.0	92.0	
	17. MH318580 (B2 AC4-TR2017)	99.7	99.7	99.7	97.3	98.0	99.3	99.3	99.0	99.0	99.7	99.7	99.7	99.7	99.7	100.0	100.0		99.7	99.7	99.3	99.0	99.0	99.0	92.0	
	18. TR2010IZ1-LK136 (MK543546)	99.3	99.3	99.3	97.7	97.7	99.0	99.0	98.7	98.7	100.0	100.0	100.0	100.0	99.3	99.7	99.7	99.7		100.0	99.0	98.7	98.7	98.7	91.7	
	19. TR2011-KC-ORG (MK543547)	99.3	99.3	99.3	97.7	97.7	99.0	99.0	98.7	98.7	100.0	100.0	100.0	100.0	99.3	99.7	99.7	99.7	100.0		99.0	98.7	98.7	98.7	91.7	
	20. TR2009-KC-VS2 (MK543548)	99.0	99.0	99.0	96.7	98.7	100.0	100.0	99.7	99.7	99.0	99.0	99.0	99.0	99.0	99.3	99.3	99.3	99.0	99.0		99.7	99.7	99.7	91.3	
	21. TR2011-TG-VS29 (MK543549)	98.7	98.7	98.7	96.3	98.7	99.7	99.7	100.0	100.0	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.0	98.7	98.7	99.7		100.0	100.0	91.7	
	22. TR2011-TG-VS549 (MK543550)	98.7	98.7	98.7	96.3	98.7	99.7	99.7	100.0	100.0	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.0	98.7	98.7	99.7	100.0		100.0	91.7	
	23. TR2011-TG-VS550 (MK543551)	98.7	98.7	98.7	96.3	98.7	99.7	99.7	100.0	100.0	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.0	98.7	98.7	99.7	100.0	100.0		91.7	
Genotype III	24. MH605274 (9870MLK-TR2018)	91.7	91.7	91.7	89.3	90.3	91.3	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	92.0	92.0	92.0	91.7	91.7	91.3	91.7	91.7	91.7		

Figure 3. Nucleotid identity (%) of *gB* gene sequences of some Turkish BoHV-4.