

HXB2 Position	Seq Feature	No. of Cases (V vs. P) (Incidence per 100 PYRs)	VE(%) (95% CI)		Two-sided P-value	Two-sided Differential VE		
						P-value	FWER P-value	Q-value
198						0.16	1	0.65
	S	21 (0.5) vs. 29 (0.7)	28.4 (−25.6, 59.2)		0.24			
	Not S	98 (2.4) vs. 86 (2.1)	−12.6 (−50.5, 15.7)		0.42			
198						0.038	0.97	0.48
	T	95 (2.3) vs. 78 (1.9)	−20.4 (−62.4, 10.8)		0.22			
	Not T	24 (0.6) vs. 37 (0.9)	35.9 (−7.2, 61.6)		0.09			
200						0.45	1	0.87
	A	22 (0.5) vs. 17 (0.4)	−28.1 (−141.3, 31.9)		0.44			
	Not A	97 (2.4) vs. 98 (2.4)	2.2 (−29.5, 26.1)		0.88			
200						0.03	0.93	0.43
	T	79 (1.9) vs. 91 (2.3)	14.2 (−16.0, 36.5)		0.32			
	Not T	40 (1) vs. 24 (0.6)	−64.8 (−173.4, 0.6)		0.053			
200						0.02	0.83	0.36
	V	13 (0.3) vs. 3 (0.1)	−328.6 (−Inf, −22.1)		0.023			
	Not V	106 (2.6) vs. 112 (2.8)	6.4 (−22.0, 28.3)		0.62			
201						0.11	1	0.65
	I	90 (2.2) vs. 76 (1.9)	−17.1 (−58.9, 13.7)		0.31			
	Not I	29 (0.7) vs. 39 (1)	26.5 (−18.8, 54.6)		0.21			
201						0.11	1	0.65
	V	18 (0.4) vs. 27 (0.7)	34.2 (−19.6, 63.7)		0.17			
	Not V	101 (2.5) vs. 88 (2.2)	−13.5 (−51.0, 14.7)		0.39			
202						0.47	1	0.88
	A	9 (0.2) vs. 6 (0.1)	−48.3 (−316.6, 47.2)		0.45			
	Not A	110 (2.7) vs. 109 (2.7)	0.2 (−30.0, 23.4)		0.99			
202						0.73	1	0.95
	K	6 (0.1) vs. 7 (0.2)	15.1 (−152.7, 71.5)		0.77			
	Not K	113 (2.8) vs. 108 (2.7)	−3.4 (−34.6, 20.6)		0.8			
202						0.51	1	0.92
	T	101 (2.5) vs. 101 (2.5)	1.2 (−30.2, 25.0)		0.93			
	Not T	18 (0.4) vs. 14 (0.3)	−27.3 (−156.0, 36.7)		0.5			
274						0.84	1	0.96
	S	111 (2.7) vs. 108 (2.7)	−1.6 (−32.4, 22.0)		0.91			
	Not S	8 (0.2) vs. 7 (0.2)	−13.1 (−212.0, 59.0)		0.81			
275						0.26	1	0.79
	E	100 (2.5) vs. 90 (2.2)	−9.8 (−46.0, 17.4)		0.52			
	Not E	19 (0.5) vs. 25 (0.6)	24.8 (−36.5, 58.6)		0.35			
275						0.22	1	0.74
	K	14 (0.3) vs. 20 (0.5)	30.7 (−37.1, 65.0)		0.29			
	Not K	105 (2.6) vs. 95 (2.4)	−9.3 (−44.2, 17.2)		0.53			
277						< 0.001	0.034	0.036*
	I	29 (0.7) vs. 8 (0.2)	−258.4 (−683.9, −63.8)		0.0014			
	Not I	90 (2.2) vs. 107 (2.7)	16.8 (−10.1, 37.2)		0.2			
277						0.0043	0.26	0.14*
	L	85 (2.1) vs. 100 (2.5)	16.0 (−12.2, 37.1)		0.24			
	Not L	34 (0.8) vs. 15 (0.4)	−124.1 (−311.4, −22.1)		0.0092			
278						0.34	1	0.82
	S	10 (0.2) vs. 14 (0.3)	29.4 (−59.0, 68.6)		0.4			
	Not S	109 (2.7) vs. 101 (2.5)	−6.7 (−39.9, 18.6)		0.64			
278						0.4	1	0.85
	T	103 (2.5) vs. 95 (2.4)	−7.2 (−41.6, 18.9)		0.63			
	Not T	16 (0.4) vs. 20 (0.5)	20.9 (−52.7, 59.0)		0.48			
279						0.63	1	0.94
	D	71 (1.7) vs. 65 (1.6)	−7.9 (−51.1, 22.9)		0.66			
	Not D	48 (1.2) vs. 50 (1.2)	5.1 (−41.1, 36.1)		0.8			
279						0.74	1	0.95
	N	43 (1.1) vs. 44 (1.1)	3.4 (−47.1, 36.5)		0.87			
	Not N	76 (1.9) vs. 71 (1.8)	−5.8 (−46.2, 23.4)		0.73			
281						0.92	1	0.96
	A	67 (1.6) vs. 64 (1.6)	−3.5 (−45.7, 26.5)		0.85			
	Not A	52 (1.3) vs. 51 (1.3)	−0.8 (−48.4, 31.5)		0.97			
281						0.97	1	0.98
	T	23 (0.6) vs. 22 (0.5)	−3.4 (−85.5, 42.4)		0.91			
	Not T	96 (2.4) vs. 93 (2.3)	−2.0 (−35.7, 23.3)		0.89			
281						0.57	1	0.93
	V	22 (0.5) vs. 18 (0.4)	−21.0 (−125.6, 35.1)		0.55			
	Not V	97 (2.4) vs. 97 (2.4)	1.2 (−31.0, 25.4)		0.94			
283						0.77	1	0.95
	I	16 (0.4) vs. 17 (0.4)	7.2 (−83.7, 53.1)		0.83			
	Not I	103 (2.5) vs. 98 (2.4)	−3.9 (−37.1, 21.2)		0.78			
283						0.58	1	0.93
	T	96 (2.4) vs. 96 (2.4)	1.1 (−31.2, 25.5)		0.94			
	Not T	23 (0.6) vs. 19 (0.5)	−19.5 (−119.3, 34.9)		0.57			
365						0.76	1	0.95
	A	12 (0.3) vs. 13 (0.3)	8.7 (−100.2, 58.3)		0.82			
	Not A	107 (2.6) vs. 102 (2.5)	−3.7 (−36.0, 20.9)		0.79			
365						0.33	1	0.82
	S	101 (2.5) vs. 92 (2.3)	−8.5 (−44.0, 18.2)		0.57			
	Not S	18 (0.4) vs. 23 (0.6)	22.7 (−43.3, 58.3)		0.41			
371						0.89	1	0.96
	I	94 (2.3) vs. 90 (2.2)	−3.3 (−37.9, 22.6)		0.83			
	Not I	25 (0.6) vs. 25 (0.6)	1.3 (−71.7, 43.3)		0.96			
371						0.89	1	0.96
	V	25 (0.6) vs. 25 (0.6)	1.3 (−71.7, 43.3)		0.96			
	Not V	94 (2.3) vs. 90 (2.2)	−3.3 (−37.9, 22.6)		0.83			
372						0.46	1	0.88
	T	104 (2.6) vs. 104 (2.6)	1.1 (−29.7, 24.7)		0.93			
	Not T	15 (0.4) vs. 11 (0.3)	−34.9 (−193.7, 38.0)		0.45			
373						0.63	1	0.94
	M	8 (0.2) vs. 6 (0.1)	−31.9 (−280.1, 54.2)		0.61			
	Not M	111 (2.7) vs. 109 (2.7)	−0.7 (−31.1, 22.7)		0.96			
373						0.73	1	0.95
	T	106 (2.6) vs. 104 (2.6)	−0.8 (−32.1, 23.1)		0.96			
	Not T	13 (0.3) vs. 11 (0.3)	−16.9 (−160.9, 47.6)		0.7			
421						0.63	1	0.94
	K	111 (2.7) vs. 109 (2.7)	−0.7 (−31.2, 22.7)		0.96			
	Not K	8 (0.2) vs. 6 (0.1)	−31.5 (−279.0, 54.4)		0.61			
421						0.63	1	0.94
	R	8 (0.2) vs. 6 (0.1)	−31.5 (−279.0, 54.4)		0.61			
	Not R	111 (2.7) vs. 109 (2.7)	−0.7 (−31.2, 22.7)		0.96			
423						0.076	1	0.65
	F	21 (0.5) vs. 11 (0.3)	−88.8 (−291.7, 8.9)		0.088			
	Not F	98 (2.4) vs. 104 (2.6)	6.9 (−22.7, 29.3)		0.61			
423						0.14	1	0.65
	I	96 (2.4) vs. 101 (2.5)	6.1 (−24.2, 29.0)		0.66			
	Not I	23 (0.6) vs. 14 (0.3)	−62.7 (−216.1, 16.3)		0.15			
426						0.41	1	0.85
	L	7 (0.2) vs. 10 (0.2)	31.0 (−81.3, 73.7)		0.45			
	Not L	112 (2.7) vs. 105 (2.6)	−5.5 (−37.7, 19.2)		0.69			
426						0.76	1	0.95
	M	109 (2.7) vs. 104 (2.6)	−3.6 (−35.6, 20.8)		0.8			
	Not M	10 (0.2) vs. 11 (0.3)	10.2 (−111.4, 61.9)		0.81			
429						0.01	0.55	0.23
	E	27 (0.7) vs. 44 (1.1)	39.3 (2.0, 62.4)		0.041			
	Not E	92 (2.3) vs. 71 (1.8)	−28.1 (−74.5, 6.0)		0.12			
429						0.82	1	0.96
	G	50 (1.2) vs. 50 (1.2)	1.1 (−46.3, 33.2)		0.95			
	Not G	69 (1.7)						