

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
130	PNG Present	67 (1.6) vs. 66 (1.6)	-0.3 (-41.0, 28.6)	0.98	0.87	1	0.97
	PNG Absent	52 (1.3) vs. 49 (1.2)	-4.9 (-55.0, 29.0)	0.81			
133	PNG Present	30 (0.7) vs. 37 (0.9)	19.7 (-29.9, 50.4)	0.37	0.24	1	0.86
	PNG Absent	89 (2.2) vs. 78 (1.9)	-12.7 (-52.8, 16.8)	0.44			
135	PNG Present	24 (0.6) vs. 18 (0.4)	-31.6 (-142.5, 28.6)	0.38	0.37	1	0.86
	PNG Absent	95 (2.3) vs. 97 (2.4)	3.1 (-28.5, 27.0)	0.82			
136	PNG Present	13 (0.3) vs. 12 (0.3)	-7.1 (-134.7, 51.1)	0.86	0.9	1	0.97
	PNG Absent	106 (2.6) vs. 103 (2.6)	-1.7 (-33.4, 22.4)	0.9			
137	PNG Present	27 (0.7) vs. 18 (0.4)	-47.9 (-168.5, 18.6)	0.2	0.17	1	0.86
	PNG Absent	92 (2.3) vs. 97 (2.4)	6.2 (-24.8, 29.5)	0.66			
138	PNG Present	20 (0.5) vs. 26 (0.6)	23.7 (-36.6, 57.4)	0.36	0.27	1	0.86
	PNG Absent	99 (2.4) vs. 89 (2.2)	-9.9 (-46.3, 17.5)	0.52			
139	PNG Present	20 (0.5) vs. 36 (0.9)	45.0 (5.0, 68.1)	0.032	0.01	0.46	0.58
	PNG Absent	99 (2.4) vs. 79 (2)	-23.8 (-66.4, 7.9)	0.16			
140	PNG Present	28 (0.7) vs. 16 (0.4)	-73.0 (-219.7, 6.4)	0.08	0.062	0.99	0.86
	PNG Absent	91 (2.2) vs. 99 (2.5)	9.1 (-20.8, 31.6)	0.51			
141	PNG Present	20 (0.5) vs. 15 (0.4)	-31.7 (-157.2, 32.6)	0.42	0.42	1	0.87
	PNG Absent	99 (2.4) vs. 100 (2.5)	2.1 (-29.2, 25.9)	0.88			
142	PNG Present	15 (0.4) vs. 12 (0.3)	-23.1 (-163.1, 42.4)	0.59	0.6	1	0.94
	PNG Absent	104 (2.6) vs. 103 (2.6)	0.1 (-31.1, 24.0)	0.99			
143	PNG Present	13 (0.3) vs. 21 (0.5)	38.7 (-22.3, 69.3)	0.16	0.11	1	0.86
	PNG Absent	106 (2.6) vs. 94 (2.3)	-11.5 (-47.1, 15.6)	0.44			
144	PNG Present	13 (0.3) vs. 10 (0.2)	-28.7 (-193.5, 43.6)	0.55	0.57	1	0.94
	PNG Absent	106 (2.6) vs. 105 (2.6)	0.2 (-30.7, 23.8)	0.99			
145	PNG Present	14 (0.3) vs. 8 (0.2)	-72.6 (-311.3, 27.6)	0.22	0.21	1	0.86
	PNG Absent	105 (2.6) vs. 107 (2.7)	3.0 (-27.0, 25.9)	0.83			
146	PNG Present	9 (0.2) vs. 10 (0.2)	11.3 (-118.2, 64.0)	0.79	0.75	1	0.94
	PNG Absent	110 (2.7) vs. 105 (2.6)	-3.6 (-35.4, 20.7)	0.8			
147	PNG Present	11 (0.3) vs. 13 (0.3)	16.2 (-87.0, 62.5)	0.67	0.6	1	0.94
	PNG Absent	108 (2.6) vs. 102 (2.5)	-4.7 (-37.2, 20.2)	0.74			
148	PNG Present	12 (0.3) vs. 13 (0.3)	8.4 (-100.7, 58.2)	0.83	0.76	1	0.94
	PNG Absent	107 (2.6) vs. 102 (2.5)	-3.7 (-36.0, 21.0)	0.8			
149	PNG Present	8 (0.2) vs. 7 (0.2)	-12.9 (-211.3, 59.1)	0.81	0.84	1	0.97
	PNG Absent	111 (2.7) vs. 108 (2.7)	-1.6 (-32.4, 22.0)	0.91			
160	PNG Present	108 (2.6) vs. 102 (2.5)	-4.7 (-37.2, 20.1)	0.74	0.6	1	0.94
	PNG Absent	11 (0.3) vs. 13 (0.3)	16.4 (-86.7, 62.5)	0.66			
185	PNG Present	7 (0.2) vs. 10 (0.2)	30.7 (-82.1, 73.6)	0.46	0.41	1	0.87
	PNG Absent	112 (2.7) vs. 105 (2.6)	-5.4 (-37.6, 19.2)	0.7			
185l	PNG Present	7 (0.2) vs. 8 (0.2)	13.1 (-139.7, 68.5)	0.79	0.74	1	0.94
	PNG Absent	112 (2.7) vs. 107 (2.7)	-3.4 (-34.8, 20.6)	0.8			
185m	PNG Present	10 (0.2) vs. 5 (0.1)	-97.5 (-477.9, 32.5)	0.21	0.21	1	0.86
	PNG Absent	109 (2.7) vs. 110 (2.7)	2.0 (-27.7, 24.8)	0.88			
185n	PNG Present	10 (0.2) vs. 8 (0.2)	-23.5 (-213.0, 51.2)	0.66	0.68	1	0.94
	PNG Absent	109 (2.7) vs. 107 (2.7)	-0.7 (-31.5, 22.9)	0.96			
185o	PNG Present	16 (0.4) vs. 14 (0.3)	-12.9 (-131.3, 44.9)	0.74	0.77	1	0.94
	PNG Absent	103 (2.5) vs. 101 (2.5)	-0.8 (-32.7, 23.4)	0.95			
185p	PNG Present	9 (0.2) vs. 9 (0.2)	1.4 (-148.3, 60.9)	0.98	0.94	1	0.97
	PNG Absent	110 (2.7) vs. 106 (2.6)	-2.6 (-34.0, 21.4)	0.85			
185q	PNG Present	14 (0.3) vs. 11 (0.3)	-25.9 (-177.3, 42.8)	0.57	0.59	1	0.94
	PNG Absent	105 (2.6) vs. 104 (2.6)	0.2 (-30.9, 23.9)	0.99			
186	PNG Present	16 (0.4) vs. 26 (0.6)	39.1 (-13.4, 67.4)	0.12	0.07	1	0.86
	PNG Absent	103 (2.5) vs. 89 (2.2)	-14.4 (-51.9, 13.9)	0.35			
187	PNG Present	51 (1.3) vs. 47 (1.2)	-7.2 (-59.4, 27.8)	0.73	0.76	1	0.94
	PNG Absent	68 (1.7) vs. 68 (1.7)	1.1 (-38.4, 29.4)	0.95			
188	PNG Present	17 (0.4) vs. 10 (0.2)	-68.1 (-267.1, 23.0)	0.19	0.18	1	0.86
	PNG Absent	102 (2.5) vs. 105 (2.6)	4.0 (-26.1, 26.9)	0.77			
276	PNG Present	112 (2.7) vs. 107 (2.7)	-3.5 (-34.9, 20.6)	0.8	0.74	1	0.94
	PNG Absent	7 (0.2) vs. 8 (0.2)	13.4 (-138.8, 68.6)	0.78			
295	PNG Present	34 (0.8) vs. 33 (0.8)	-2.0 (-64.7, 36.8)	0.93	0.98	1	0.98
	PNG Absent	85 (2.1) vs. 82 (2)	-2.4 (-38.7, 24.4)	0.88			
332	PNG Present	82 (2) vs. 83 (2.1)	2.4 (-32.5, 28.0)	0.88	0.58	1	0.94
	PNG Absent	37 (0.9) vs. 32 (0.8)	-14.4 (-83.6, 28.7)	0.58			
386	PNG Present	107 (2.6) vs. 105 (2.6)	-0.8 (-31.9, 23.0)	0.96	0.72	1	0.94
	PNG Absent	12 (0.3) vs. 10 (0.2)	-18.3 (-173.8, 48.9)	0.69			
392	PNG Present	86 (2.1) vs. 75 (1.9)	-13.3 (-54.5, 16.9)	0.43	0.25	1	0.86
	PNG Absent	33 (0.8) vs. 40 (1)	18.4 (-29.4, 48.5)	0.39			
394	PNG Present	12 (0.3) vs. 16 (0.4)	25.7 (-57.0, 64.9)	0.44	0.37	1	0.86
	PNG Absent	107 (2.6) vs. 99 (2.5)	-6.8 (-40.4, 18.7)	0.64			
400	PNG Present	15 (0.4) vs. 10 (0.2)	-48.0 (-229.5, 33.5)	0.34	0.34	1	0.86
	PNG Absent	104 (2.6) vs. 105 (2.6)	2.1 (-28.4, 25.3)	0.88			
401	PNG Present	20 (0.5) vs. 14 (0.3)	-41.0 (-179.2, 28.8)	0.32	0.32	1	0.86
	PNG Absent	99 (2.4) vs. 101 (2.5)	3.1 (-27.9, 26.5)	0.83			
402	PNG Present	10 (0.2) vs. 13 (0.3)	24.1 (-73.0, 66.7)	0.51	0.46	1	0.89
	PNG Absent	109 (2.7) vs. 102 (2.5)	-5.7 (-38.4, 19.3)	0.69			
403	PNG Present	9 (0.2) vs. 12 (0.3)	25.6 (-76.5, 68.7)	0.5	0.44	1	0.89
	PNG Absent	110 (2.7) vs. 103 (2.6)	-5.5 (-38.1, 19.3)	0.69			
404	PNG Present	16 (0.4) vs. 11 (0.3)	-43.6 (-209.3, 33.4)	0.36	0.36	1	0.86
	PNG Absent	103 (2.5) vs. 104 (2.6)	2.1 (-28.6, 25.4)	0.88			
405	PNG Present	16 (0.4) vs. 13 (0.3)	-21.7 (-152.9, 41.5)	0.6	0.62	1	0.94
	PNG Absent	103 (2.5) vs. 102 (2.5)	0.2 (-31.3, 24.1)	0.99			
406	PNG Present	30 (0.7) vs. 23 (0.6)	-28.8 (-121.8, 25.2)	0.36	0.34	1	0.86
	PNG Absent	89 (2.2) vs. 92 (2.3)	4.3 (-28.0, 28.5)	0.77			
407	PNG Present	16 (0.4) vs. 15 (0.4)	-5.3 (-113.0, 47.9)	0.89	0.93	1	0.97
	PNG Absent	103 (2.5) vs. 100 (2.5)	-1.8 (-34.1, 22.7)	0.9			
408	PNG Present	13 (0.3) vs. 16 (0.4)	19.6 (-67.2, 61.3)	0.56	0.49	1	0.91
	PNG Absent	106 (2.6) vs. 99 (2.5)	-5.8 (-39.2, 19.5)	0.68			
409	PNG Present	19 (0.5) vs. 17 (0.4)	-10.5 (-112.6, 42.5)	0.76	0.8	1	0.96
	PNG Absent	100 (2.5) vs. 98 (2.4)	-0.9 (-33.3, 23.7)	0.95			
410	PNG Present	16 (0.4) vs. 14 (0.3)	-13.2 (-131.8, 44.8)	0.74	0.77	1	0.94
	PNG Absent	103 (2.5) vs. 101 (2.5)	-0.8 (-32.6, 23.4)	0.95			
411	PNG Present	55 (1.3) vs. 52 (1.3)	-4.6 (-52.8, 28.4)	0.82	0.88	1	0.97
	PNG Absent	64 (1.6) vs. 63 (1.6)	-0.4 (-42.2, 29.1)	0.98			
413	PNG Present	26 (0.6) vs. 26 (0.6)	1.2 (-70.1, 42.7)	0.96	0.89	1	0.97
	PNG Absent	93 (2.3) vs. 89 (2.2)	-3.3 (-38.2, 22.7)	0.83			
460	PNG Present	16 (0.4) vs. 18 (0.4)	12.3 (-72.0, 55.3)	0.7	0.63	1	0.94
	PNG Absent	103 (2.5) vs. 97 (2.4)	-5.0 (-38.6, 20.4)	0.73			
461	PNG Present	35 (0.9) vs. 24 (0.6)	-44.4 (-142.8, 14.1)	0.17	0.13	1	0.86
	PNG Absent	84 (2.1) vs. 91 (2.3)	8.8 (-22.7, 32.2)	0.54			
462	PNG Present	32 (0.8) vs. 35 (0.9)	9.6 (-46.0, 44.0)	0.68	0.55	1	0.94
	PNG Absent	87 (2.1) vs. 80 (2)	-7.5 (-45.7, 20.6)	0.64			
463	PNG Present	26 (0.6) vs. 22 (0.5)	-16.6 (-105.7, 33.9)	0.6	0.61	1	0.94
	PNG Absent	93 (2.3) vs. 93 (2.3)	1.1 (-31.8, 25.8)	0.94			
464	PNG Present	12 (0.3) vs. 15 (0.4)	20.8 (-69.3, 62.9)	0.55	0.48	1	0.91
	PNG Absent	107 (2.6) vs. 100 (2.5)	-5.8 (-38.9, 19.5)	0.69			
464a	PNG Present	15 (0.4) vs. 14 (0.3)	-5.9 (-119.4, 48.9)	0.88	0.92	1	0.97
	PNG Absent	104 (2.6) vs. 101 (2.5)	-1.8 (-33.9, 22.6)	0.9			
464b	PNG Present	5 (0.1) vs. 10 (0.2)	50.6 (-44.6, 83.1)	0.2	0.17	1	0.86
	PNG Absent	114 (2.8) vs. 105 (2.6)	-7.3 (-39.9, 17.7)	0.6			
465	PNG Present	18 (0.4) vs. 23 (0.6)	22.7 (-43.2, 58.3)	0.41	0.33	1	0.86
	PNG Absent	101 (2.5) vs. 92 (2.3)	-8.6 (-44.0, 18.2)	0.57			

