HIVDB algV9_0 => algV9_1 Changes

At least 200 patterns were affected. Due to 24 changed rules listed below:

- Added new rule **L100I + K103N + P225H**, with scores -10 (DOR), 0 (EFV), 0 (ETR), 0 (NVP), 0 (RPV).
- Added new rule **K103N + P225H**, with scores 10 (DOR), 0 (EFV), 0 (ETR), 0 (NVP), 0 (RPV).
- Changed scores of rule **V106M**: 50 to 30 (DOR).
- Changed scores of rule **V108I**: 15 to 10 (DOR).
- Changed scores of rule **E138K**: 10 to 5 (DOR).
- Changed scores of rule **Y188C**: 10 to 5 (DOR).
- Changed scores of rule **Y188H**: 10 to 5 (DOR).
- Changed scores of rule **G190S**: 30 to 20 (DOR).
- Changed scores of rule **H221Y**: 15 to 10 (DOR).
- Changed scores of rule **P225H**: 30 to 20 (DOR).
- Changed scores of rule **F227I**: 50 to 60 (DOR).
- Changed scores of rule **F227L**: 50 to 60 (DOR).
- Changed scores of rule **F227V**: 50 to 60 (DOR).
- Changed scores of rule **L234I**: 30 to 45 (DOR).
- Changed scores of rule **P236L**: 15 to 10 (DOR).
- Changed scores of rule **Y318F**: 30 to 60 (DOR).
- Changed scores of rule **K103N + Y181C**: 10 to 5 (DOR).
- Changed rule **V106A + F227L to V106A + F227CL** and its scores 15 to 0 (DOR).
- Changed scores of rule **V106I + Y181C**: 10 to 5 (DOR).
- Changed scores of rule **V106I + G190S**: 10 to 5 (DOR).
- Changed scores of rule **V108I + Y181C**: 10 to 5 (DOR).
- Changed scores of rule **V108I + L234I**: 15 to 10 (DOR).
- Changed rule **Y181C + G190ACSTV to Y181CIV + G190ACSTV** and its scores 20 to 10 (DOR).
- Changed rule **A98G + F227C to A98G + F227CL**.

pattern	count	DOR	EFV	ETR	NVP	RPV
K103N + Y181C	890	20 => 15	90	30	120	45
K103N + P225H	712	30	105	0	105	0
K103N + V108I	523	15 => 10	70	0	75	0
V108I	414	15 => 10	10	0	15	0
Y181C + G190A	353	30 => 20	75	50	120	70
Y181C + H221Y	287	35 => 30	40	40	75	70
K103N + Y181C + G190A	243	40 => 25	135	50	180	70
K103N + Y181C + H221Y	234	45 => 35	100	40	135	70
K103N + V106M	204	50 => 30	120	0	120	0
K101E + Y181C + G190A	193	50 => 40	95	75	155	115
G190S	178	30 => 20	60	10	60	15
V108I + Y181C + H221Y	171	60 => 45	50	40	90	70
V108I + Y181C	160	35 => 25	40	30	75	45
H221Y	128	15 => 10	10	10	15	15
V106A + F227L	124	125 => 120	75	0	90	0
K101E + G190S	118	50 => 40	75	30	90	60
K103N + H221Y	98	15 => 10	70	10	75	15
K103N + V108I + P225H	94	45 => 40	115	0	120	0
K103N + V108I + H221Y	92	30 => 20	80	10	90	15
E138K	91	10 => 5	10	10	10	45
K101E + Y181C + G190S	83	80 => 60	110	75	155	115
L100I + K103N + H221Y	81	45 => 40	130	40	135	75
K103N + V108I + Y181C	80	45 => 30	100	30	135	45

K103N + P225H + K238T	74	30	135	0	135	0
V106M	73	50 => 30	60	0	60	0
Y181C + G190S	72	60 => 40	90	50	120	70
A98G + K103N + Y181C	70	40 => 35	110	45	155	65
K103N + V108I + Y181C + H221Y	67	70 => 50	110	40	150	70
A98G + K103N + P225H	66	45	120	10	135	15
Y181C + G190A + H221Y	66	55 => 40	85	60	135	95
V106M + G190A	65	50 => 30	105	10	120	15
K103R + V106M + V179D	61	50 => 30	90	10	90	25
K103N + V108I + K238T	60	15 => 10	100	0	105	0
V106M + Y188C	58	60 => 35	120	0	120	0
A98G + K103N + V108I	56	30 => 25	85	10	105	15
K103N + G190S	56	30 => 20	120	10	120	15
L100I + K103N + P225H	55	60 => 50	165	30	165	60
V106M + V179D	55	50 => 30	70	10	70	10
K101E + V108I + Y181C + G190A	53	75 => 55	105	75	170	115
K103N + Y188C	50	10 => 5	120	0	120	0
K103N + Y188H	48	10 => 5	90	0	120	0
K101E + V106M + G190A	45	70 => 50	120	30	150	60
K103S + V106M	45	50 => 30	105	0	120	0
V108I + Y181C + G190A	45	55 => 35	85	50	135	70
Y188C	45	10 => 5	60	0	60	0
A98G + Y181C + G190A	44	50 => 40	95	65	155	90
F227L	44	50 => 60	15	0	30	0
K103N + Y181C + G190A + H221Y	44	65 => 45	145	60	195	95
K101H + Y181C + G190A	43	30 => 20	85	60	135	80
V106M + V179D + F227L	42	100 => 90	85	10	100	10
V108I + Y181C + G190A + H221Y	42	80 => 55	95	60	150	95
A98G + K103N + Y181C + G190A	41	60 => 45	155	65	215	90
V106M + Y188L	41	110 => 90	120	10	120	60
K103N + Y318F	40	30 => 60	70	0	90	0
K103N + V108I + Y181C + G190A + H221Y	35	90 => 60	155	60	210	95
V106M + F227L	35	100 => 90	75	0	90	0
K103N + Y181C + N348I	34	20 => 15	90	30	135	45
L100I + K103N + V108I	34	45 => 40	130	30	135	60
P225H	34	30 => 20	45	0	45	0
A98G + K101E + Y181C + G190A	33	70 => 60	115	90	190	135
K101E + V108I + Y181C + G190A + H221Y	33	100 => 75	115	85	185	140
V106A + G190A + F227L	33	125 => 120	120	10	150	15
K103N + V108I + M230L	30	75 => 70	115	30	135	60
P236L	30	15 => 10	0	0	0	0
Y188H	30	10 => 5	30	0	60	0
Y318F	30	30 => 60	10	0	30	0
A98G + Y181C + H221Y	29	55 => 50	60	55	110	90
K103N + Y181C + K238T	29	20 => 15	120	30	150	45
K103N + V108I + N348I	28	15 => 10	70	0	90	0
A98G + V108I + Y181C	26	55 => 45	60	45	110	65
V106I + Y181C	26	30 => 25	30	40	70	65
V106M + G190A + F227L	26	100 => 90	120	10	150	15
K101E + V106I + G190S	24	70 => 55	75	40	100	70
V106I + Y181C + G190A	24	50 => 35	75	60	130	90
K101E + Y181C + G190A + H221Y	23	75 => 60	105	85	170	140
A98G + K101E + V108I + Y181C + G190A	22	95 => 75	125	90	205	135
K103N + V106M + F227L	21	100 => 90	135	0	150	0
A98G + V108I + Y181C + H221Y	20	80 => 65	70	55	125	90
K101E + E138A + G190S	20	50 => 40	75	40	90	75
K103N + G190A + P225H	20	30	150	10	165	15
K103N + V179E + P225H	20	30	115	10	115	10
K101H + Y181C + G190S	19	60 => 40	100	60	135	80
K103N + E138A + P225H	19	30	105	10	105	15
K103N + V106M + E138A	19	50 => 30	120	10	120	15
K103N + V108I + G190A	19	15 => 10	115	10	135	15
K101E + V106M + F227L	18	115 => 105	90	15	120	45
K103N + E138G + P225H	18	30	115	10	115	15

Mutation						
K103N + V106A + F227L	18	125 => 120	135	0	150	0
K103N + Y181C + P225H	18	50 => 45	135	30	165	45
K103S + Y181C + G190A	18	30 => 20	120	50	180	70
V106I + V108I	18	25 => 20	10	10	25	10
K101E + E138K	17	25 => 20	25	25	40	90
K101E + V106M	17	65 => 45	75	15	90	45
K103N + V108I + Y181C + G190A	17	65 => 40	145	50	195	70
Y188L + H221Y	17	75 => 70	70	20	75	75
K101E + V106I + Y181C + G190S	16	110 => 80	110	85	165	135
K101H + G190S	16	30 => 20	70	20	75	25
K101H + V108I + Y181C + G190A	16	55 => 35	95	60	150	80
K103N + V108I + P225H + K238T	16	45 => 40	145	0	150	0
V106I + Y181C + H221Y	16	55 => 45	40	50	85	90
A98G + K103N + V108I + Y181C	15	65 => 50	120	45	170	65
G190A + H221Y	15	15 => 10	55	20	75	30
K101E + K103N + Y181C + G190A	15	60 => 45	155	75	215	115
K101E + V108I + G190A	15	35 => 30	70	30	105	60
K103N + E138Q + Y181C	15	20 => 15	100	40	130	60
K103N + V108I + H221Y + P225H	15	60 => 50	125	10	135	15
K103N + Y181C + Y188C	15	30 => 20	150	30	180	45
V106M + Y181C	15	60 => 40	90	30	120	45
K101E + K103N + V108I	14	30 => 25	85	15	105	45
K101E + Y181C + G190S + H221Y	14	105 => 80	120	85	170	140
K103N + L234I	14	30 => 45	60	0	60	0
K103N + P225H + M230L	14	90	150	30	165	60
K103N + V106M + Y181C	14	70 => 45	150	30	180	45
V108I + G190A	14	15 => 10	55	10	75	15
K101E + K103N + Y181C	13	35 => 30	110	50	155	90
K103N + G190A + H221Y	13	15 => 10	115	20	135	30
K103N + H221Y + L234I	13	45 => 55	70	10	75	15
Y181I + H221Y	13	45 => 40	40	70	75	85
Y181V + H221Y	13	45 => 40	40	70	75	85
A98G + G190S	12	45 => 35	75	20	90	30
A98G + K101E + V108I + Y181C + G190A + H221Y	12	120 => 95	135	100	220	160
A98G + V108I	12	30 => 25	25	10	45	15
K101E + E138G + G190S	12	50 => 40	85	40	100	75
K101E + V106M + E138A + G190A	12	70 => 50	120	40	150	75
K101E + V106M + G190A + F227L	12	120 => 110	135	30	180	60
K101E + V106M + Y181C + G190A	12	100 => 70	155	75	215	115
K101E + Y181C + H221Y	12	50 => 45	60	60	110	115
K103N + P225H + N348I	12	30	105	0	120	0
K103N + V108I + E138Q	12	15 => 10	80	10	85	15
K103N + V108I + K238N	12	15 => 10	80	0	85	0
K103N + V108I + Y181C + H221Y + K238T	12	70 => 50	140	40	180	70
L100I + K103N + E138K	12	40 => 35	130	40	130	105
L100I + K103N + Y181C	12	50 => 45	150	60	180	105
L234I	12	30 => 45	0	0	0	0
V106I + Y188C	12	20 => 15	60	10	70	10
V106M + Y181C + G190A	12	80 => 50	135	50	180	70
V106M + Y188H	12	60 => 35	90	0	120	0
V108I + H221Y	12	30 => 20	20	10	30	15
V108I + Y181C + H221Y + N348I	12	60 => 45	50	40	105	70
Y181C + G190S + H221Y	12	85 => 60	100	60	135	95
A98G + V108I + Y181C + G190A	11	75 => 55	105	65	170	90
K101E + V108I + Y181C	11	50 => 40	60	50	110	90
K103N + H221Y + M230L + L234I	11	105 => 115	115	40	135	75
K103N + V106A + Y181C	11	80 => 75	135	30	180	45
K103N + V108I + H221Y + K238T	11	30 => 20	110	10	120	15
K103N + V108I + V179E	11	15 => 10	80	10	85	10
V106M + V179D + G190A	11	50 => 30	115	20	130	25
V108I + V179E + Y181C	11	35 => 25	50	40	85	55
Y181C + G190A + N348I	11	30 => 20	75	50	135	70
Y181C + H221Y + N348I	11	35 => 30	40	40	90	70
Y188L + P225H	11	90 => 80	105	10	105	60

A98G + K101E + G190S	10	65 => 55	90	40	120	75
A98G + K103N + V108I + H221Y	10	45 => 35	95	20	120	30
A98G + L100I + K103N + V108I	10	60 => 55	145	40	165	75
G190A + F227L	10	50 => 60	60	10	90	15
G190S + N348I	10	30 => 20	60	10	75	15
K103N + E138Q + P225H	10	30	115	10	115	15
K103N + Y181C + H221Y + K238T	10	45 => 35	130	40	165	70
K103R + V106M + V179D + F227L	10	100 => 90	105	10	120	25
K103S + G190A + P225H	10	30 => 20	135	10	165	15
V106I + G190S	10	50 => 35	60	20	70	25
V179E + Y181C + G190A	10	30 => 20	85	60	130	80
A98G + K101E + Y181C + G190S	9	100 => 80	130	90	190	135
A98G + K103N + V108I + K238T	9	30 => 25	115	10	135	15
K101E + V106I + Y181C + G190A	9	70 => 55	95	85	165	135
K103N + F227L	9	50 => 60	75	0	90	0
K103N + V106I + Y181C	9	40 => 30	90	40	130	65
K103N + V106M + G190A	9	50 => 30	165	10	180	15
K103N + V108I + Y181C + K238T	9	45 => 30	130	30	165	45
K103N + Y181C + G190A + N348I	9	40 => 25	135	50	195	70
K103N + Y181C + G190S	9	70 => 45	150	50	180	70
L100I + K103N + V108I + H221Y	9	60 => 50	140	40	150	75
L100I + K103N + Y181C + G190A	9	70 => 55	195	80	240	130
V108I + E138A	9	15 => 10	10	10	15	15
V179D + Y181C + G190A	9	30 => 20	85	60	130	80
V179D + Y181C + H221Y	9	35 => 30	50	50	85	80
Y181C + G190A + K238T	9	30 => 20	105	50	150	70
A98G + K101E + Y181C + G190A + H221Y	8	95 => 80	125	100	205	160
A98G + K103N + V108I + Y181C + G190A	8	85 => 60	165	65	230	90
A98G + V106I + Y181C + G190A	8	70 => 55	95	75	165	110
G190E + H221Y	8	75 => 70	70	55	75	75
G190Q + H221Y	8	45 => 40	70	55	75	60
K103N + H221Y + P225H	8	45 => 40	115	10	120	15
K103N + V108I + Y181C + N348I	8	45 => 30	100	30	150	45
K103N + Y181C + G190A + K238T	8	40 => 25	165	50	210	70
L100I + K103N + V106M	8	80 => 60	180	30	180	60
V106I + V108I + Y181C + H221Y	8	80 => 60	50	50	100	90
V106I + Y188L + H221Y	8	85 => 80	70	30	85	85
V106M + Y181C + F227L	8	110 => 100	105	30	150	45
Y181C + Y188C	8	20 => 15	90	30	120	45
A98G + K103N + V108I + F227L	7	80 => 100	100 => 115	10 => 25	135 => 150	15 => 30
A98G + K103N + Y181C + G190A + H221Y	7	85 => 65	165	75	230	115
A98G + K103N + Y181C + H221Y	7	65 => 55	120	55	170	90
A98G + K103N + Y318F	7	45 => 75	85	10	120	15
A98G + V108I + Y181C + G190A + H221Y	7	100 => 75	115	75	185	115
K101E + K103N + G190S	7	50 => 40	135	30	150	60
K101E + V106M + Y181C	7	75 => 55	110	50	155	90
K103N + H221Y + K238T	7	15 => 10	100	10	105	15
K103N + V106A + P225H	7	90	150	0	165	0
K103N + V106I + V108I	7	25 => 20	70	10	85	10