

Supplementary Table 2. Signature analysis of K-mers (K=8, 9, 10, or 11) that are known or possible (EpiPred posterior probability > 0.0) in the MRKAd5 insert sequence.

Gag 8-mers

Position1	Estimate	p-value	q-value
389	7.87	0.0043	0.19
372	-11.83	0.0035	0.17
204	-4.43	0.0035	0.17
401	13.27	0.0034	0.17
400	13.27	0.0034	0.17
399	12.73	0.0032	0.17
83	-11.19	0.0027	0.17
402	11.43	0.0017	0.17
403	12.72	0.0013	0.17
383	15.00	0.0009	0.17

Pol 8-mers: None evaluable

Nef 8-mers

Position1	Estimate	p-value	q-value
20	-14.73	0.0028	0.12
122	-3.69	0.0027	0.12
125	-3.76	0.0022	0.12
124	-3.76	0.0022	0.12
123	-3.76	0.0022	0.12

Gag 9-mers

Position1	Estimate	p-value	q-value
372	-14.15	0.0041	0.18
204	-4.43	0.0035	0.17
401	13.27	0.0034	0.17
400	13.27	0.0034	0.17
399	13.27	0.0034	0.17
398	12.16	0.0028	0.17
383	14.52	0.0028	0.17
382	15.48	0.0017	0.17
402	12.72	0.0013	0.17
403	18.78	0.00034	0.15

Pol 9-mers: None evaluable

Nef 9-mers

Position1	Estimate	p-value	q-value
122	-3.69	0.0027	0.14
121	-3.69	0.0027	0.14
124	-3.76	0.0022	0.14
123	-3.76	0.0022	0.14

Gag 10-mers

Position1	Estimate	p-value	q-value
403	18.78	0.00034	0.08
402	18.78	0.00034	0.08

Pol 10-mers: None evaluable**Nef 10-mers:**

Position1	Estimate	p-value	q-value
122	-3.69	0.0027	0.19
121	-3.69	0.0027	0.19
123	-3.76	0.0022	0.19

Gag 11-mers

Position1	Estimate	p-value	q-value
401	20.64	0.00053	0.08
403	18.78	0.00034	0.08
402	18.78	0.00034	0.08

Pol 11-mers: None evaluable**Nef 11-mers: None evaluable**