

Supplemental Digital Content 3 - Table S3: UDPS error rates determined from replicates of non-mutant controls

expected ¹	NVP resistance sites ²																						NRTI resistance sites ²					
	L100I	K101E	K101P	K103S	K103T	V106A	V106M	V179F	Y181I	Y181S	Y181V	Y188C	Y188H	Y188L	G190A	G190C	G190E	G190Q	G190S	G190T	G190V	F227C	Q151M	M184I	M184V	T215F	T215V	
	ATA	GAA	GCA	AGY	ACA	GCA	ATG	TTY	ATT	TCT	GTT	TGT	CAT	TTR	GCA	TGY	GAA	CAA	AGY/TCA	ACA	GTA	TGT	ATG	ATH	GTG	TTC	TAC	
0%	23/8025	5/7957	0/7906	12/7443	33/7485	5/7265	0/7241	0/7083	0/7134	18/7135	0/7134	10/7215	13/7214	0/7215	0/7226	0/7221	1/7226	0/7222	0/7221	0/7222	0/7226	1/7353	0/5129	3/7185	21/7183	0/7324	0/7374	
0%	142/8101	2/8027	0/7983	0/7508	0/7574	5/7091	0/7057	0/7167	0/7190	14/7191	0/7190	5/7258	10/7255	0/7258	0/7271	0/7276	10/7271	0/7267	0/7266	0/7267	1/7271	0/7380	0/4428	4/7223	14/7218	0/7386	0/7386	
0%	9/6174	5/6127	0/6088	11/5739	29/5768	1/5584	0/5575	0/6927	0/6965	10/6965	0/6965	2/7037	10/7034	0/7037	0/7052	0/7041	2/7052	0/7041	0/7041	0/7041	0/7052	0/7179	0/3997	3/7003	12/7000	0/7196	0/7196	
0%	127/8356	2/8284	0/8229	0/7738	0/7798	1/7344	0/7311	0/7381	0/7427	7/7427	0/7427	13/7488	13/7485	0/7488	1/7500	0/7497	4/7500	0/7498	0/7497	0/7498	0/7500	0/7608	0/4599	2/7458	13/7452	0/7613	0/7613	
0%	58/3144	0/3113	0/3093	0/2909	1/2936	1/2756	0/2738	0/4289	0/4308	4/4308	0/4308	10/4341	5/4340	0/4341	0/4348	0/4344	1/4348	0/4344	0/4344	0/4344	0/4348	0/4411	0/1741	3/4329	5/4328	0/4409	0/4409	
0%	117/6613	2/6545	0/6513	1/6093	0/6163	1/5803	0/5769	0/5070	0/5094	4/5094	0/5094	5/5145	5/5144	0/5145	0/5154	0/5151	3/5154	0/5151	0/5151	0/5151	0/5154	0/5230	0/3590	2/5124	14/5118	0/5234	0/5234	
0%	106/7282	5/7207	0/7176	0/6711	0/6777	3/6336	0/6295	0/6594	0/6628	8/6628	0/6628	9/6708	6/6706	0/6708	0/6716	0/6714	6/6716	0/6714	0/6714	0/6714	0/6716	0/6800	0/3937	3/6680	17/6675	0/6812	0/6812	
0%	141/7933	3/7846	1/7811	0/7318	1/7388	9/6942	0/6909	0/6461	0/6494	9/6494	0/6494	7/6554	7/6552	0/6554	0/6570	0/6564	5/6570	0/6564	0/6564	0/6564	0/6570	0/6654	0/4331	1/6526	12/6525	0/6665	0/6665	
0%	18/6113	4/6027	0/5991	0/5614	1/5658	4/5172	0/5142	0/5612	0/5646	9/5646	0/5646	8/5704	11/5704	0/5704	1/5716	0/5712	5/5716	0/5712	0/5712	0/5712	0/5716	0/5800	0/3277	0/5684	13/5683	0/5811	0/5811	
0%	25/7037	6/6939	0/6904	0/6421	0/6497	4/5901	0/5880	0/6300	0/6336	8/6336	0/6336	3/6400	9/6397	0/6400	0/6416	0/6410	0/6416	0/6410	0/6410	0/6410	0/6416	0/6544	0/3627	1/6371	11/6367	0/6561	0/6561	
0%	122/7656	6/7575	0/7537	0/7084	0/7133	3/6745	0/6713	0/6575	0/6597	8/6597	0/6597	7/6659	5/6655	0/6659	0/6667	0/6665	3/6667	0/6665	0/6665	0/6665	0/6667	0/6766	0/4142	7/6625	21/6620	0/6771	0/6771	
0%	148/5813	1/5751	0/5721	0/5399	0/5451	5/5165	0/5143	0/5387	0/5419	11/5419	0/5419	5/5484	8/5482	0/5484	0/5495	0/5494	5/5495	0/5494	0/5494	0/5494	1/5495	0/5570	0/1815	2/5468	5/5466	0/5573	0/5573	
minimum	0.15%	<0.03%	<0.01%	<0.01%	<0.01%	0.01%	<0.01%	<0.01%	<0.01%	0.08%	<0.01%	0.03%	0.08%	<0.01%	<0.01%	<0.01%	<0.015%	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%	<0.02%	<0.02%	0.09%	<0.01%	<0.01%	
maximum	2.55%	0.09%	0.01%	0.19%	0.50%	0.13%	<0.036%	<0.02%	<0.02%	0.25%	<0.02%	0.23%	0.19%	<0.02%	0.02%	<0.02%	0.14%	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%	<0.06%	0.11%	0.32%	<0.02%	<0.02%	

¹ Each of 12 samples of in-vitro control transcripts were wild-type for the mutations listed. Any mutants detected are a result of error during in-vitro transcription, RT, PCR, or 454-sequencing.

² Specific mutations at each NVP or NRTI site analyzed are listed at the top of a column. The required nucleotide change is underlined in the row below. The number of mutant sequences out of the total number of sequence reads for each of 12 wild-type controls are shown and the minimum and maximum % error is listed at the bottom. K103N and Y181C are not included here, because the data used to generate these error rates are from mixtures of wild-type and K103N/Y181C-containing templates. The 0% K103N/Y181C controls are shown in Table 2.