

The Hutchison Lab's collection of HIV-1 Reverse Transcriptase Mutants

	95	100	105	110	115	120	125	130	135	140	145	150
wild-type sequence												
	P H P A G L K K K K S V T V L D V G D A Y F S V P L D E D F R K Y T A F T I P S I N N E T P G I R Y Q Y N V L P											
Conservative Substitutions	A	A P A I R R T	A I P A S	M N	A E G F	A I	V E D E N	K R F P G Y P L S G V A A S S A A	D D P T A	M K F E F D L V		I I
Non- Conservative Substitutions	E N L V E F Q E N T L Q L L E L Q I M T A	R G P V E F H V S L L D L F A G Y L W L D D L L I K H Y E H K G R R V N I N L D T A P L V E G Y G V C T H W G A V N V E C V T L R K I A I L E F S C N T R A Q G R Y V F R A Y V I H V A E R R N I H K R Q D C F Q W Q C N T V S Q F C V V N T F N Q L N										
		155	160	165	170	175	180	185	190	195	200	
wild-type sequence												
	Q G W K G S P A I F Q S S M T K I L E P F R K Q N P D I V I Y Q Y M D D L Y V G S D L E I G Q H R T K I E											
Conservative Substitutions	A F	A S T M Y E T S V	I S R L V D A Y K R E V M S L V	A E V L	M F E F I E E V F I A A E I D L L N N M L P N V	E R	A V D S M P					
Non- Conservative Substitutions	P R G I E L R L R C P R C K I T S F V H C S T K K L H T D F H P N K V A F C A R F Y F K T V R Y T I N K V H V C E R K L L C I T T S L I T Q P T R V R F T S R C G H W G E Y V G K W L N I K I R G R N L F A I N R F F Q R L G N R S A F S H D Y G S G V R R H P S R Q A Q N H N N N Q I L N K H Y N A Q F S											
	48	57	60	73	87	232	283	289	331	365	376	383
wild-type sequence												
	S . . N T P V . . K . . F W . . Y E L . . L R G T K A L . . K . . K . . T T E S I V I W											
Conservative	A	Q	I		F							
Non- Conservative Substitutions		A L	L Q	K K D	A	K	K	K	A	A	K	K K K K

	398	401				410	414	439	458	542
wild-type										
sequence	W . .	W W	T E Y W	Q A T	W . .	K . .	T . .	V . .	I	
Conservative										
Non-Conservative Substitutions	K	K K D	K K		K	K	K	K	K	K

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