

Table 14: **Rev**

HXB2 Location	Author Location	Sequence	Immunogen	Species(HLA)	References
Rev(9–23)	Rev(9–23 HXB2) • Induces both Th and CTL activities, no HLA restriction analysis performed	DEELIRTVRLIKLLY	HIV-1 infection	human( )	[Blazevic (1995)]
Rev(12–31)	Rev(11–30 SF2) • Of 25 patients, most had CTL specific for more than 1 HIV-1 protein • Only one subject had CTL that could recognize vaccinia expressed LAI Rev • This subject had a CTL response to this peptide, and was HLA-A2, A24, B13, B35	LLKAVRLIKFLYQSNPPPNF	HIV-1 infection	human( )	[Lieberman (1997a)]
Rev(25–39)	Rev(25–39 HXB2) • Induces both Th and CTL activities, no HLA restriction analysis performed	SNPPPNPEGTRQARR	HIV-1 infection	human( )	[Blazevic (1995)]
Rev(33–48)	Rev(33–48 HXB2) • Induces both Th and CTL activities, no HLA restriction analysis performed	GTRQARRNRRRRWRER	HIV-1 infection	human( )	[Blazevic (1995)]
Rev(41–56)	Rev(41–56 HXB2) • Induces both Th and CTL activities	RRRRWRERQRQIHSIS	HIV-1 infection	human( )	[Blazevic (1995)]
Rev(55–63)	Rev(55–63 LAI) • Predicted to be an HLA-A1 epitope based on anchor residues 2S and 9Y • Both forms LSGWL(L or I)STY, with intact anchors, were found in an HLA-A1+ individual with Rev responsive CTL • An HLA-A1 individual who did not make a Rev response had lost the C-term anchor, ISGWILS(T or N)S • 3/7 long term non-progressors and 0/5 progressors were positive for HLA-B57 (associated with prolonged survival) • CTLp frequencies to Rev and Tat were inversely correlated with rapid progression to AIDS, but not Gag, RT or Nef	ISERILSTY	HIV-1 infection	human(A1)	[van Baalen (1997)]

HXB2 Location	Author Location	Sequence	Immunogen	Species(HLA)	References
Rev(67-75)	Rev(67-75 IIIB)	SAEPVPLQL	HIV-1 infection	human(B14, Cw8)	[Van Baalen (1998)]
					<ul style="list-style-type: none"> <li>• The Rev-specific CTL response studied here was from an individual infected with HIV-1 for more than 12 years without developing symptoms – Rev and Tat are expressed early and CTL activity against these proteins has been correlated with long term survival</li> <li>• The CTL clone TCC108 specific for this epitope was studied <i>in vitro</i></li> <li>• CTLs added immediately after infection suppressed viral production, indicative of CTL interference with viral production prior to lysis – CTL-mediated lysis occurred after the onset of progeny viral release, but prior to peak viral production</li> <li>• Rapid selection of a E69K mutation, which abolished CTL, recognition was observed</li> <li>• The epitope was originally listed as B14, but Cw8 and B14 are in linkage disequilibrium, and in this case were not distinguished (Pers. Comm., Christian Brander, 1999)</li> </ul>
Rev( )	Rev( )		DNA vaccine pCMV160/Rev	murine(H-2 <sup>d</sup> )	[Ishii (1997)]
					<ul style="list-style-type: none"> <li>• pCMV160/Rev is a DNA vaccine candidate carrying gp160 and Rev linked to a cytomegalovirus (CMV promoter)</li> <li>• pCMV160/Rev given in conjunction with a cationic liposome gave enhanced DTH, Ab and CTL responses</li> </ul>