Table 15: **Nef**

HXB2 Location	Author Location	Sequence	Immunogen	Species(HLA)	References				
Nef(1-20)	Nef(1–20 LAI)	MGGKWSKSSVVGWPTVRERM	Nef, Rev and Tat DNA immunization	murine(H-2 ^d)	[Hinkula (1997)]				
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 								
Nef(16–35)	Nef(16-35 LAI)	VRERMRRAEPAADGVGAASR	Nef, Rev and Tat DNA immunization	murine(H-2 ^d)	[Hinkula (1997)]				
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 								
Nef(31–50)	Nef(31–50 LAI)	GAASRDLEKHGAITSSNTAA	Nef, Rev and Tat DNA immunization	murine(H-2 ^d)	[Hinkula (1997)]				
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 								
Nef(45–69)	Nef(45-69 BRU)	SSNTAATNAACAWLEAQ- EEEEVGFP	rec Nef	rat and chim- panzee()	[Estaquier (1992)]				
	• Antigenic domain: ATNAACAWL, priming with peptide enhanced subsequent Ab response to Nef protein immunization								
Nef(46–65)	Nef(46–65 LAI)	SNTAATNAACAWLEAQEEEE	Nef, Rev and Tat DNA immunization	murine(H-2 ^d)	[Hinkula (1997)]				
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 								
Nef(61–80)	Nef(61-80 LAI)	QEEEEVGFPVTPQVPLRPMT	Nef, Rev and Tat DNA immunization	murine(H-2 ^b)	[Hinkula (1997)]				
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 								
Nef(76–95)	Nef(76–95 LAI)	LRPMTYKAAVDLSHFLKEKG	Nef, Rev and Tat DNA immunization	murine(H-2 ^b)	[Hinkula (1997)]				
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 								
Nef(91–110)	Nef(91-110 LAI)	LKEKGGLEGLIHSQRRQDIL	Nef, Rev and Tat DNA immunization	murine(H-2 ^b)	[Hinkula (1997)]				
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 								

HXB2 Location	Author Location	Sequence	Immunogen	Species(HLA)	References		
Nef(98–112)	Nef(98–112 BRU) • Peptide alone could	EGLIHSQRRQDILDL stimulate monkey T-cells in the absence	rec Nef e of carrier protein – req	chimpanzee() uired carrier protein in ra	[Estaquier (1992)] at		
Nef(106–125)	Nef(106–125 LAI)	RQDILDLWIYHTQGYFPDWQ	Nef, Rev and Tat DNA immunization	murine(H-2 ^b)	[Hinkula (1997)]		
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally ratherthan with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 						
Nef(121–140)	Nef(121-140 LAI)	FPDWQNYTPGPGVRYPLTFG	Nef, Rev and Tat DNA immunization	murine(H-2 ^b)	[Hinkula (1997)]		
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 						
Nef(136–155)	Nef(136-155 LAI)	PLTFGWCYKLVPVEPDKVEE	Nef, Rev and Tat DNA immunization	murine(H-2 ^d)	[Hinkula (1997)]		
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 						
Nef(151–170)	Nef(151-170 LAI)	DKVEEANKGENTSLLHPVSL	Nef, Rev and Tat DNA immunization	murine(H-2 ^d)	[Hinkula (1997)]		
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 						
Nef(166–185)	Nef(166-185 LAI)	HPVSLHGMDDPEREVLEWRF	Nef, Rev and Tat DNA immunization	murine(H- $2^{b,d}$)	[Hinkula (1997)]		
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 						
Nef(181–205)	Nef(181-205 LAI)	LEWRFDSRLAFHHVARE- LHPEYFKN	Nef, Rev and Tat DNA immunization	murine(H-2 ^d)	[Hinkula (1997)]		
	 Stronger, broader responses were observed in animals vaccinated with DNA epidermally rather than with intramuscular protein Some proliferative response to vaccination was observed to peptides throughout Nef and Tat, less for Rev 						
Nef(185–200)	Nef(183–198) • T-cell response to th	FDSRLAFHHVARELHP is epitope persisted after seroreversion	HIV-1 infection	human()	[Ranki (1997)]		
Nef()		s the level of variation in Nef CTL epi erved than either helper or MAb epitop					