

Majority	MEGPAFSKPLKDKINPWGPLIVIGILVRAGASVQRDSPHQVFNVWTRVTNLMTGQTANATSLTGTMTDTPKLYFDLCDL	
	10 20 30 40 50 60 70 80	
N417_env_translation	MEGPAFSKPLKDKINPWGPLIVIGILVRAGASVQRDSPHQVFNVWTRVTNLMTGQTANATSLTGTMTDTPKLYFDLCDL	80
JY_env_translation	MEGPAFSKPLKDKINPWGPLIVIGILVRAGASVQRDSPHQVFNVWTRVTNLMTGQTANATSLTGTMTDTPKLYFDLCDL	80
Majority	VGDHWDDPEPDIGDGRSPGGRRKRLRYDFYVCPGHTVPIGCGGPGEGYCGKWGCETTQAYWKPSSSWDLISLKRGNTP	
	90 100 110 120 130 140 150 160	
N417_env_translation	VGDHWDDPEPDIGDGRSPGGRRKRLRYDFYVCPGHTVPIGCGGPGEGYCGKWGCETTQAYWKPSSSWDLISLKRGNTP	160
JY_env_translation	VGDHWDDPEPDIGDGRSPGGRRKRLRYDFYVCPGHTVPIGCGGPGEGYCGKWGCETTQAYWKPSSSWDLISLKRGNTP	160
Majority	KDQGPCYDSSVSSGVQGATPGGRCNPLVLEFTDAGKKASWDAPKVVGLRLYRSTGADPVTRFSLTRQVLNVGPRVPIGPN	
	170 180 190 200 210 220 230 240	
N417_env_translation	KDQGPCYDSSVSSGVQGATPGGRCNPLVLEFTDAGKKASWDAPKVVGLRLYRSTGADPVTRFSLTRQVLNVGPRVPIGPN	240
JY_env_translation	KDQGPCYDSSVSSGVQGATPGGRCNPLVLEFTDAGKKASWDAPKVVGLRLYRSTGADPVTRFSLTRQVLNVGPRVPIGPN	240
Majority	PVITEQLPPSQPVQIMLPRPPHPPPSGAASMVPGAPPSQQPGTGDRLLNLVKGAYQALNLTPDRTQECWLCLVSGPPY	
	250 260 270 280 290 300 310 320	
N417_env_translation	PVITEQLPPSQPVQIMLPRPPHPPPSGAASMVPGAPPSQQPGTGDRLLNLVKGAYQALNLTPDRTQECWLCLVSGPPY	320
JY_env_translation	PVITEQLPPSQPVQIMLPRPPHPPPSGAASMVPGAPPSQQPGTGDRLLNLVKGAYQALNLTPDRTQECWLCLVSGPPY	320
Majority	YEGVAVLGTYSNHTSAPANCSVASQHKLTLSEVTGGQLCVGAVPKTHQALCNTTQKASDGSYYLAAPAGTIWACNTGLTP	
	330 340 350 360 370 380 390 400	
N417_env_translation	YEGVAVLGTYSNHTSAPANCSVASQHKLTLSEVTGGQLCVGAVPKTHQALCNTTQKASDGSYYLAAPAGTIWACNTGLTP	400
JY_env_translation	YEGVAVLGTYSNHTSAPANCSVASQHKLTLSEVTGGQLCVGAVPKTHQALCNTTQKASDGSYYLAAPAGTIWACNTGLTP	400
Majority	CLSTTVLNLTTDYCVLVELWPKVYHSPGYVYDQFERKTKYKREPVSLLALLLGGTIMGIAAGVGTGTTALVATKQFE	
	410 420 430 440 450 460 470 480	
N417_env_translation	CLSTTVLNLTTDYCVLVELWPKVYHSPGYVYDQFERKTKYKREPVSLLALLLGGTIMGIAAGVGTGTTALVATKQFE	480
JY_env_translation	CLSTTVLNLTTDYCVLVELWPKVYHSPGYVYDQFERKTKYKREPVSLLALLLGGTIMGIAAGVGTGTTALVATKQFE	480
Majority	QLQAAIHTDLGALEKSVSALEKSLTSLSEVVLQNRRLDLLFLKEGGLCAALKEECCFYADHTGVVRDSMAKLRERLNQR	
	490 500 510 520 530 540 550 560	
N417_env_translation	QLQAAIHTDLGALEKSVSALEKSLTSLSEVVLQNRRLDLLFLKEGGLCAALKEECCFYADHTGVVRDSMAKLRERLNQR	560
JY_env_translation	QLQAAIHTDLGALEKSVSALEKSLTSLSEVVLQNRRLDLLFLKEGGLCAALKEECCFYADHTGVVRDSMAKLRERLNQR	560
Majority	QKLFESGQGWFEGLFNRSPWFTTLISTIMGPLIVLLXX	
	570 580 590 600 610 620 630 640	
N417_env_translation	QKLFESGQGWFEGLFNRSPWFTTLISTIMGPLIVLLIILLLGPCILNRLVQFVKDRISVVQALVLTQQYHQLKSIDPEEV	640
JY_env_translation	QKLFESGQGWFEGLFNRSPWFTTLISTIMGPLIVLL-----SYSSDPAFSTAWSSL-----	611
Majority	XXXX-	
N417_env_translation	ESRE.	645
JY_env_translation	----	612