



# Integrase CTL Map

FLDGIDKAQDEHEKEYHSNWRAMASDFNLPVVAKEIVASCDKCKQLKGEAM  
 10 20 30 40 50  
 ← B\*5101 →

HGQVDCSPGIWQLDCTHLEGGKVVILVAVHVAVSGYIEAEVIPAETGQETAYF  
 60 70 80 90 100  
 ← A\*2402 →  
 3 A\*6802

LLKLAGRWPVKTTIHTDNGSNFTGATVRAACWVWAGIKQEFGIPYNPQSQGV  
 110 120 130 140 150  
 3 A\*6802

VESMNKELKKIIGQVRDQAEHLKTAVQMAVFIHNFKRKGGIGGYSAGERI  
 160 170 180 190 200  
 ← B\*570 →  
 ← B\*570 →  
 ← A\*1101 →

VDIATDIQTKELQKQITKIQNFRVYYRDSRNPLWKGPAKLLWKGEAGV  
 210 220 230 240 250  
 ← A\*0201 →  
 ← A2 →

IQDNNDIKVVPRRKAKIIRDYKQKQMGAGDDCVASRQDED  
 260 270 280

80 A2  
 WWTEYWQATWIPPEWEFVNTTPLLKLVYQLEKEPIVGAETTFYVDGAANRET  
 410 420 430 440 450  
 ← A2 →

81 B15  
 ← B15 →

82 B\*3501  
 ← B\*3501 →

83 B15  
 ← B15 →

84 B15, B51  
 ← B15, B51 →

85 A\*6802  
 ← A\*6802 →

86 B45  
 ← B45 →

87 A28  
 ← A28 →

88 A26  
 ← A26 →

89 A29  
 ← A29 →

p15 RNase start <-

89 A29  
 KLGKAGYVTVNRGRQKVVTLTDTTNOKTELOAIYLALQDSGLEVNIVTDSQ  
 460 470 480 490 500  
 ← A29 →

90 B14  
 ← B14 →

91 A2  
 ← A2 →

92 A2.1  
 ← A2.1 →

93 B14, B\*1402  
 ← B14, B\*1402 →

94 Cw8  
 ← Cw8 →

93 B14, B\*1402  
 ← B14, B\*1402 →

94 Cw8  
 ← Cw8 →

95 A2  
 YALGIIQAQPDQSESELVNQIIIEQLIKKEKVVYLAWVPAHKGIGGENEQVDK  
 510 520 530 540 550  
 ← A2 →

96 A\*1101  
 ← A\*1101 →

97 B7  
 ← B7 →

LVSAGIRKVL  
 -> p15 RNase end