Start End ***Catalytic***

LoopA LoopB LoopC LoopD LoopE Loop1 Loop2 Loop3

N Y N N N Y Y N

P04517 POLG\_TEV 2005 GFPERENELRQTGMAVPVAYDQLPPKN----EDLTFEGESLFKGPRDYNPISSTICHLTN 2060

P09814 POLG\_TVMV 1969 GFPEREGELRRTGPTETLPFDALPPEK----QEVAFESKALLKGVRDFNPISACVWLLEN 2024

P17767 POLG\_PPVRA 2013 GFPEREFELRQTGHPVFVEPNAIPKINEEGDEEVDHESKSLFRGLRDYNPIASSICQLNN 2072

P21231 POLG\_SBMVN 2009 GFPEREDELRQTGLPQVVSKSDVPRAK----ERVEMESKSVYKGLRDYSGISTLICQLTN 2064

M9NYB7 M9NYB7\_9POTV 2064 GFPERENELRQTGPARVIDIGDVPKLE----EEIKLEGVSLSRGVRDYNAISSMVCRVTN 2119

P04517 POLG\_TEV 2061 ESDGHTTSLYGIGFGPFIITNK***H***LFRRNNGTLLVQSLHGVFKVKNTTTLQQHLIDGR***D***MI 2120

P09814 POLG\_TVMV 2025 SSDGHSERLFGIGFGPYIIANQ***H***LFRRNNGELTIKTMHGEFKVKNSTQLQMKPVEGR***D***II 2084

P17767 POLG\_PPVRA 2073 SSGARQSVMFGLGFGGLIVTNQHLFKRNDGELTIRSHHGEFVVKDTKTLKLLPCKGRDIV 2132

P21231 POLG\_SBMVN 2065 SSDGHKETMFGVGYGSFIITNGHLFRRNNGMLTVKTWHGEFVIHNTTQLKIHFIQGKDVI 2124

M9NYB7 M9NYB7\_9POTV 2120 DSGSSSTTMYGIGYGCYIITNKHLFRENNGRLLITSHHGEYICKNSASLKLSLVPGRDML 2179

P04517 POLG\_TEV 2121 IIRMPKDFPPFPQKLKFREPQREERICLVTTNFQTKSMSSMVSDTSCTFPSSDGIFWKHW 2180

P09814 POLG\_TVMV 2085 VIKMAKDFPPFPQKLKFRQPTIKDRVCMVSTNFQQKSVSSLVSESSHIVHKEDTSFWQHW 2144

P17767 POLG\_PPVRA 2133 IIRLPKDFPPFPKRLQFRTPTTEDRVCLIGSNFQTKSISSTMSETSATYPVDNSHFWKHW 2192

P21231 POLG\_SBMVN 2125 LIRMPKDFPPFGKRNLFRQPKREERVCMVGTNFQEKSLRATVSESSMILPEGKGSFWIHW 2184

M9NYB7 M9NYB7\_9POTV 2180 LIRLPKDCPPFPSKLKFREPTSEEKAVLVVTNFQEKHLSSMVSESSCVVQREDSPIWRHW 2239

P04517 POLG\_TEV 2181 IQTKDGQ***C***GSPLVSTRDGFIVGIHSASNFTNTNNYFTSVPKNFMELLT-NQEAQQWVSGW 2239

P09814 POLG\_TVMV 2145 ITTKDGQ***C***GSPLVSIIDGNILGIHSLTHTTNGSNYFVEFPEKFVATYL--DAADGWCKNW 2202

P17767 POLG\_PPVRA 2193 ISTKDGHCGLPIVSTRDGSILGLHSLANSTNTQNFYAAFPDNFETTYLSNQDNDNWIKQW 2252

P21231 POLG\_SBMVN 2185 ITTQDGFCGLPLVSVNDGHIVGIHGLTSNDSEKNFFVPLTDGFEKEYLENADNLSWDKHW 2244

M9NYB7 M9NYB7\_9POTV 2240 ISTKDGHCGAPIVSIRDGYIIGSHCGENP-MTSNFFTSIPKDFQNLLN-GKEANEWVSGW 2297

P04517 POLG\_TEV 2240 RLNADSVLWGGHKVFMSKPEEPFQPVKEATQLMNELVYSQGEKRKWVVEALSGNLRPVAE 2299

P09814 POLG\_TVMV 2203 KFNADKISWGSFTLVEDAPEDDFMAKKTVAAIMDDLVRTQGEKRKWMLEAAHTNIQPVAH 2262

P17767 POLG\_PPVRA 2253 RYNPDEVCWGSLQLKRDIPQSPFTICKLLTDLDGEFVYTQSKTTHWLRDRLEGNLKAVGA 2312

P21231 POLG\_SBMVN 2245 FWEPSKIAWGSLNLVEEQPKEEFKISKLVSDLFGNTVTVQGRKERWVLDAMEGNLAACGQ 2304

M9NYB7 M9NYB7\_9POTV 2298 KYNIDAVCWGGLSVVNDAPSEPFITAKVVSALDTEGIKVQAVESKWMLNALNGNLRPVAS 2357