

Supplemental Table 1: BKPyV NCCR sequences

Name	Sequence 5'->3'
<i>ww(1.4)</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAAC TGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAAACTGGACAAAGGCC
<i>sp1-1</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GG <b>AAACA</b> T <b>ATCCAT</b> CCT <b>AGGCA</b> TCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAAACTGGACAAAGGCC
<i>sp1-2</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAG <b>TTAT</b> GAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAAACTGGACAAAGGCC
<i>sp1-4a</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCC <b>GATA</b> CCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAAACTGGACAAAGGCC
<i>sp1-4b</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATA <b>ATGACACTT</b> CGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAAACTGGACAAAGGCC
<i>sp1-4 5CG</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCC <b>GG</b> CCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAAACTGGACAAAGGCC
<i>sp1-4 5CG/10CT</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCC <b>GG</b> CCC <b>T</b> TGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAAACTGGACAAAGGCC
<i>sp1-4 10CT</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT

	GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCC <b>T</b> TGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAACTGGACAAAGGCC
<i>sp1-4</i> <i>7CG/10CT</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCG <b>G</b> C <b>T</b> TGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAACTGGACAAAGGCC
<i>sp1-1*</i> <i>sp1-4a</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGA <b>AA</b> CA <b>TATC</b> CA <b>T</b> CT <b>AGGC</b> A <b>T</b> CTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAAC <b>CGATA</b> CCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAA ACTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAACTGGACAAAGGCC
<i>sp1-2*</i> <i>sp1-4a</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAG <b>TTAT</b> TGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAAC <b>CTATT</b> CCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAA ACTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAACTGGACAAAGGCC
<i>sp1-2*</i> <i>ets1-2</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAG <b>TTAT</b> TGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACA <b>TA</b> TTAAGTGGAA ACTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAACTGGACAAAGGCC
<i>sp1-4*</i> <i>ets1-2</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAAC <b>CGATA</b> CCCTGAAATTCTCAAATAAACACA <b>TA</b> TTAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAACTGGACAAAGGCC
<i>sp1-(1,2,4a)</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGA <b>AA</b> CA <b>TATC</b> CA <b>T</b> CT <b>AGGC</b> A <b>T</b> CTTATATATTATAAAAAAAAAAGGCCACAG <b>TTAT</b> TGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCT CAGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAAC <b>CGATA</b> CCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAA AACTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAACTGGACAAAGGCC
<i>yy1*sp1-2</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAG <b>TTAT</b> TGAGCTGCTTACT <b>TGC</b> TGGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCGCCAGTTAACTGGACAAAGGCC
<i>nf1-1</i>	TTTTGCAAAAATTGCAAAGAATAGGGATTTCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCAT <b>AGA</b> ATGCAG <b>TCTA</b> ACCATGACCTC

	AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCCCCAGTTAAACTGGACAAAGGCC
<i>nf1-2</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGAA <b>ACATGCAATAC</b> GCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCCCCAGTTAAACTGGACAAAGGCC
<i>nf1-3</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGT <b>AGAAA</b> CTGG <b>TCT</b> AAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCCCCAGTTAAACTGGACAAAGGCC
<i>nf1-4</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAAC TGGCCAAAGGAGT <b>TTACATC</b> AGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCCCCAGTTAAACTGGACAAAGGCC
<i>nf1-5</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAAC TGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTT <b>AGCA</b> ATTGTCT <b>TCC</b> AGTTAAACTGGACAAAGGCC
<i>nf1-(1,3,5)</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCAT <b>AGA</b> ATGCAG <b>TCTA</b> ACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGT <b>AGAA</b> ACTGG <b>TCTA</b> AGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTT <b>AGCA</b> ATTGTCT <b>TCC</b> AGTTAAACTGGACAAAGGCC
<i>yy1*nf1-1</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACT <b>TGCT</b> AGAATGCAG <b>TCTA</b> ACCATGACCT CAGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAA ACTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCCCCAGTTAAACTGGACAAAGGCC
<i>ets1-2</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACA <b>TATTA</b> AGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTCCCCAGTTAAACTGGACAAAGGCC
<i>ets1-2</i> 15.10	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACA <b>C</b> AGGAAGTGGAAAC

	TGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTC CCCAGTTAAACTGGACAAAGGCC
<i>ets1-2</i> <i>HI-u6/CAP-</i> <i>m5</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGGAGTGGAAAC TGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTC CCCAGTTAAACTGGACAAAGGCC
<i>p53</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAAC TGGCCAAA GGAGTGGAAAGCAGCCAGACATAACTTTCTTTCGCGGGCCTAGGAATCTTGGCCTT GTCCCCAGTTAAACTGGACAAAGGCC
<i>yy1</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACT <b>TGCT</b> GGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTC CCCAGTTAAACTGGACAAAGGCC
<i>Itag1-2</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAG <b>TGCC</b> CAGAAAA <b>TGCC</b> CCACACCCTTACTACTTGAGAGAAAGGG TGGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTC CCCAGTTAAACTGGACAAAGGCC
<i>Itag3-4</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGG <b>TAG</b> CGG <b>TAG</b> CTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAATTCTCAAATAAACACAAGAGGAAGTGGAAA CTGGCCAAAGGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTC CCCAGTTAAACTGGACAAAGGCC
<i>R8-18</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTCA GGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAAACACAAGAGGAAGTGGAAACTGGCCAAAGGA GTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTC CCCAGTTAAACTGGACAAAGGCC
<i>R8-18*</i> <i>sp1-(1,2,4a)</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAA <b>ACA</b> T <b>ATCCAT</b> CT <b>AGGCAT</b> CTTATATATTATAAAAAAAAAAGGCCACAG <b>TTAT</b> TAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCT CAGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAAC <b>CGATA</b> CCCTGAAAACACAAGAGGAAGTGGAAACTGGCCAAA GGAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTC CCCAGTTAAACTGGACAAAGGCC
<i>R8-18*</i> <i>nf1-(1,3,5)</i>	TTTTGCAAAAATTGCAAAAGAATAGGGATTTCCCCCAAATAGTTTTGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCAT <b>AGA</b> ATGCAG <b>TCTA</b> ACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAAACACAAGAGGAAGT <b>AGAA</b> ACTGG <b>TCTA</b> AG GAGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCT <b>AGCA</b> TTGT <b>CTC</b> CCAGTTAAACTGGACAAAGGCC

<i>R8-18</i> <i>ltag1-2</i>	TTTGC AAAAATTGCAAAGAATAGGGATTTCCCCAAATAGTTTGGCTAG <b>TGCC</b> CAGAAAA <b>TGCC</b> CCACACCCTTACTACTTGAGAGAAAGGG TGGAGGCAGAGGCGGCCTCGGCCTCTTATATATTATAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAAACACAAGAGGAAGTGGAAACTGGCCAAAGG AGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTC CCCAGTTAAACTGGACAAAGGCC
<i>R8-18</i> <i>ltag3-4</i>	TTTGC AAAAATTGCAAAGAATAGGGATTTCCCCAAATAGTTTGGCTAGGCCTCAGAAAAAGCCTCCACACCCTTACTACTTGAGAGAAAGGGT GGAGGCAGAGGCGG <b>TAG</b> CGG <b>TAG</b> CTTATATATTATAAAAAAAGGCCACAGGGAGGAGCTGCTTACCCATGGAATGCAGCCAAACCATGACCTC AGGAAGGAAAGTGCATGACTGGGCAGCCAGCCAGTGGCAGTTAATAGTGAAACCCCGCCCCTGAAAACACAAGAGGAAGTGGAAACTGGCCAAAGG AGTGGAAAGCAGCCAGACAGACATGTTTTGCGGGCCTAGGAATCTTGGCCTTGTC CCCAGTTAAACTGGACAAAGGCC