## SUPPLEMENTARY FIGURE LEGENDS

## Supplemental Figure 1: Confocal images showing co-localization of IFN-ɛ and pan-

**cytokeratin confirming IFN-ε is expressed in epithelial cells.** IFN-ε (green) and pancytokeratins (red) in the vagina, endocervix, rectum or lung tissues from uninfected rhesus macaques were detected using immunofluorescence staining. Rabbit anti-IFN-ε and mouse antipan-cytokeratin antibodies (Mak6) were used as primary antibodies, and anti-rabbit-Alexa 488 and anti-mouse Alexa 594 were used as secondary antibodies. The merged panel shows the colocalization (yellow) of IFN-ε and Mak6 over the differential interference contrast (DIC) images of the designated tissues.

**Supplemental Figure 2:Rabbit IgG isotype control for IHCS of rhesus macaque tissues.** Rabbit IgG was incubated in the same concentration as IFNE antibody on respective tissues under the same IHCS conditions as used for IFNE staining. Each image is representative of at least 3 sections from at least 3 animals for each tissue examined. Scale bars are drawn to 100 μm.

Supplemental Figure 3: An anti-human IFN- $\varepsilon$  antibody specifically stains IFN- $\varepsilon$  proteins, as demonstrated by peptide antigen and antibody competition assays. IFN- $\varepsilon$  peptide antigen or HTLV envelope peptide and antibody competition staining assays on rectal tissues of an SIVuninfected rhesus macaque. Human anti-IFN- $\varepsilon$  antibody at a working dilution of 1:400 or 1:800 was incubated at room temperature for 2 h without IFNE or HTLV peptide antigen (no peptide) or with peptide antigen at a 5:1 (5X), 10:1 (10X) molar ratio, respectively, prior to a standard IHCS procedure.

## Supplemental Figure 4: IFN- $\varepsilon$ mRNA expression is unaltered in SIV-infected rhesus

**macaques.** Quantitative RT-PCR of IFN- $\varepsilon$  mRNA expression was normalized to GAPDH expression from the rectal tissues of SIV-uninfected rhesus macaques or at 28 days post SIV infection. Data are shown as the mean  $\pm$  SEM of 3 individual rhesus macaques. There was no significant difference using an unpaired Student's t test.

**Supplemental Figure 5: The IFN-ε 5' UTR of the rhesus macaque has 96% identity with human and non-human primates**. MUSCLE alignment of the IFN-ε 5'UTR nucleotide sequence from non-human primates, humans and mice. Transcription factor binding sites are shaded in yellow, and black boxes highlight nucleotide mismatches from mouse and non-human primates. Transcription factor binding sites were determined based on conservation of human IFN-ε 5' UTR and Hardy et. al. as a reference [7].





Jejunum

Rectum



Lung





Supplemental Figure 4



**Days Post Infection** 

## Supplemental Figure 5

	SAIBL	20	40	EO	ISLI	70 00	00	100
	10 20	30	40		60	10 80		100
Molleo						3 8 8 8 6 6 6 6 6 7 1		
Mode	ATTAGATATTAAACTGATTGG	GIGAAATATAAA	ATAGTTCAAGGT	TATTGGTACATA	TTTTCACATTA-	ATATGCCCAA	ATACTTGTGCACATI	TACA
Macaca	CTTAGATATTAAACTGATAGG	ATAAGATATAAA	ATAATTTAAGAT	TGCTGATGTATG	TTTTAAAGTTA-	ATTTGCTCAA	GCATTTGTGAAAATI	TACA
PapioAnubis	CTTAGATATTAAACTGATAGG	ATAAGATATAAA	ATAATTTAAGAT	TGCTGATGTATG	TTTTAAAGTTA-	ATTTGCTCAA	GCATTTGTGAAAATT	TACA
PongoAbelii	CTTAGATATTAAACTGATAGG	ATAAGATATAAA	ATAATTTAAGAT	TGCTGTTATATG	TTTTAAAATTA-	ATTTGCTCAA	GCATTTGTGACAATT	TACA
Gorilla	CTTAGATATTAAACTGATAGG	ATAAGATATAAA	ATAATTTAAGAT	TGCTGATATATG	TTTTAAAATTA-	ATTTGCTCAA	GCATTTGTGACAATT	TACA
Human	CTTAGATATTAAACTGATAGG	ATAAGATATAAA	ATAATTTAAGAT	TGCTGATATATG	TTTAAAATTAA	TTATTTGCTCAA	GCATTTGTGACAATT	TACA
Chimpanzee	CTTAGATATTAAACTGATAGG	ATAAGATATAAA	ATAATTTAAGAT	TGCTGATATATG	TTTAAAATTA-	ATTTGCTCAA	GCATTTGTGACAATT	TACA
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Macaca	GTTCTAGTTGAGGTTTTAAAT	TTAGTCGTTTG	TAGGTATTTTAAC	GTTTTGCCTCTGA	ATTCCTTATAA	<b>TGCTGCTAAGCO</b>	TTTGATAAGTTTTA	CTCCA
PapioAnubis	GTTCTAGTTGAGGTTTTAAAT	TTAGTCGTTTG	TAGGTATTTTAA	GTTTTGCCTCTGA	ATTCCTTATAA	<b>TGCTGCTAAGCO</b>	TTTGTTAAGTTTTA	CTCCA
PongoAbelii	GTTCTAGTTGAGGTTTTAAAT	TTAGTAGTTTG	TAAGTATTTTAAG	GTTTTGCCCCTGA	ATTCTTTATAG	TGCTGATAAGCO	TTTGGTAAGTTTTA	CTCCA
Gorilla	GTTCTAATTGAGGTTTTAAAT	TTAGTAGTTTGT	TAGGTATTTTAAC	STTTTGCCCCTGA	ATTCTTTATAG	ATGCTGATAAGCO	TTTGGTAAGTTTTA	CTCCA
Human	GTTCTAATTGAGGTTTTAAAT	TTAGTAGTTTG	TAGGTATTTTAA	TTTTGCCCCTGA	ATTCTTTATAG	TGCTGATAAGCO	TTTGGTAAGTTTTA	CTCCA
Chimpanzee	GTTCTAATTGAGGTTTTAAAT	TTAGTATTTG	AGGTATTTTAA	TTTTGCCCCTGA	ATTCTTTATAG	TGCTGATAAGCO	TTTGTTAAGTTTTA	CTCCA
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Macaca	TGAAAGACTATTACTGAAAA-	AAACTTAA	TCTCAATAAAAG	ACTTTAATAAGO	TTGACTAAATA	TTTAGAAAGCACA	ATTGTGTTCAGTGAA	ACTTT
PapioAnubis	TGAAAGACTATTACTGAAAA-	AAACTTAA	TCTCAATAAAAG	ACTTTAATAAGC	TTGACTAAATA	TTTAGAAAGCACA	ATTGTGTGTGAGTGAA	ACTTT
PongoAbelii	TGAAAGACTATTACTGAAAA-	AAACTTAA	TCTCAATAAAAG	ACTTTAATAAGC	TTGACTAAATA	TTTAGAAAGCACA	ATTGTGTTCAGTGAA	ACTTT
Gorilla	TGAAAGACTATTACTGAAAA	AAACTTAA	TCTCAATAAAAG	ACTTTAATAAAA	TTCACTAAATA	TTTAGAAAGCACA	ATTGTGTGTTCAGTGAA	ACTTT
Human	TGAAAGACTATTACTGAAAA	AAACGTAA	TCTCAATAAAAG	ACTTTAATAAGC	TTGACTAAATA	TTTAGAAAGCACA	ATTGTGTGTTCAGTGAA	ACTTT
Chimpanzee	TGAAAGACTATTACTGAAAA	AAACTTAA	TCTCAATAAAAG	ACTTTAATAAGO	TTGACTAAATA	TTTAGAAAGCACA	TTGTGTTCAGTGAA	ACTTT
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Mouse	GTACGTAATAAATAATGAGT	GGTAATAGTAGG	TCAGAGTGGACA	ACTATCAT	TGTCTCAAGAC	AAGTGCACAGTG	AAGCCAGCTCTTTCG	T-TAC
Macaca	GTATATAATGAATAG	AATAATAAAAGA	TTATATTGGCTG	ACTAGTCTGTAAT	TGCCTCGAGGA	AAGCATACAATG	AA-TAAGTTATTTTG	GTTAC
PapioAnubis	GTATATAATGAATAG	ATAATAAAAGA	TTATATTGGCTG	ACTAGTCTGTAAT	TGCCTCGAGGA	AAGCATACAATG	AA-TAAGTTATTTG	GTTAC
rapioniubis	GIAIAIAAI GAAIAG	HATWATWAWA	TIMINI 100CIO	ACTAGICIGIAA	TACCTCOMOOM	ANGCAINCAMIG	MA IMAGIIATITIO	
PongoAbolii	CTATATATATATCAATAC	ADAAATAAAA	TTATATTCCATC	ACTACTCTCTAAT	TOCCTCAACCA	AACCATACAATCI	AA-TAACTTATTTC	G-TAC
PongoAbelii	GTATATAATGAATAG	AATAATAAAAGA	TTATATTGGATG	ACTAGTCTGTAAT	TGCCTCAAGGA	AAGCATACAATG	AA-TAAGTTATTTTG	G TAC
PongoAbelii Gorilla	GTATATAATGAATAG	AATAATAAAAGA AATAATAAAAAGA	TTATATTGGATG	ACTAGTCTGTAAT ACTAGTCTGTAAT	TGCCTCAAGGA TGCCTCAAGGA	AAGCATACAATGI AAGCATACAATGI	AA-TAAGTTATTTTG AA-TAAGTTATTTTG	G-TAC
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PongoAbelii Gorilla Human Chimpanzee	GTATATAATGAATAG	AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAAGA	TTATATTGGATG. TTATATTGGATG. TTATGTTGGATG. TTATATTGGATG.	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT	TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA	AAGCATACAATG) AAGCATACAATG) AAGCATACAATG/ AAGCATACAATG/	AA-TAAGTTATTTTG AA-TAAGTTATTTTG AA-TAAGTTATTTTG AA-TAAGTTATTTTG	G-TAC G-TAC G-TAC G-TAC
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PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpangoa	GTATATAATGAATAG	AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA O 430 O	TTATATTGGATG TTATATTGGATG TTATGTTGGATG TTATATTGGATG 440 	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT CTAGTCTGTAAT CTCTGAGCACCA CTCTGAGCACCAC CTCTGAACACCAC CTCTGAACACCACCACCACCACCACCACCACCACCACCACCACC	TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA GAATGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC	AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI (1000000000000000000000000000000000000	AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG GGTATAAGTTATTTTG GGTATAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG	G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC BAAACG BAAACG BAAACG BAAATG BAAATG BAAATG
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PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee	GTATATAATGAATAG	AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA 0 430 	TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG 440  AAAGGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT CTAGTCTGTAAT CCATAAA-ACCCI CTCTGAGCACCAT CTCTGAACACCAT CTCTGAACACCAT CTCTGAACACCAT CTCTGAACACCAT CTCTGAACACCAT	ТGCCTCAAGGA ТGCCTCAAGGA TGCCTCAAGGA IRF2 460 GAAATGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC	AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI 470 480 100000000000000000000000000000000000	AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG GGTATAACTTGG GGTATAACTTGG GGTATAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG	G-TAC G-TAC G-TAC G-TAC G-TAC SOU AAATG AAATG AAATG AAATG AAATG
PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee	GTATATAATGAATAG GTATATAATGAATAG GTATATAATGAATAG GTATATAATGAATAG GTATATAATGAATAG GTATATAATGAATAG GTATATAATGAATAG 410 421 TTCCTC AAACAG CAACAG TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC TTCCTCAAAATAGCCAACAC	AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA 0 430 	TTATATTGGATG TTATATTGGATG TTATGTTGGATG TTATATTGGATG AAAGGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA CGAGAAAATGTA CGAGAAAATGTA	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT CTAGTCTGTAAT CTCTGAGCACCA CTCTGAGCACCAC CTCTGAACACCAC CTCTGAACACCAC CTCTGAACACCAC CTCTGAACACCAC	ТGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA GGAATGGGAAC GAAAAGGGAAC GAAAAGGGAAC GAAAAGGGAAC GAAAAGGGAAC GAAAAGGGAAC	AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI ( CAGAAAACCTAA CTGAAGATCTAA CTGAAGATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA	AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG GGTATAAGTTATTTTG GGTATAAACTTGCAG TGTGTAAACTTGCAG TGTGTAAACTTGCAG TGTGTAAACTTGCAG TGTGTAAACTTGCAG TGTGTAAACTTGCAG TGTGTAAACTTGCAG GTGTGTAAACTTGCAG MFKB 0 590	G-TAC G-TAC G-TAC G-TAC G-TAC ADAATG ADAATG ADAATG ADAATG ADAATG ADAATG ADAATG
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AACAAAAGAGAA</th> <th>TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG A440 A440 AAAGGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA CGACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA</th> <th>ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT CTCTGACACCA CTCTGACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA TATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG</th> <th>TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA (GALATGGGAAC GALAAGGGAAC GALAAGGGAAC GALAAGGGAAC GALAAGGGAAC GALAAGGGAAC CACAAAGGGAAC CACAAAGGGAAC CATGAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA</th> <th>AAGCATACAATG AAGCATACAATG AAGCATACAATG AAGCATACAATG AAGCATACAATG AAGCATACAATG CTGAAAACCTAA CTGAAAACCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CAATCATCAC CATTCACCA CATTCAC CATTCAC CATTCAC</th> <th>AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG GGTATAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC</th> <th>G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC 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PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee	GTATATAATGAATAG     J       GTATATAATGAATAG     J       GTATATAATGAATAG     J       GTATATAATGAATAG     J       GTATATAATGAATAG     J       GTATATAATGAATAG     J       STAT     SOXS       410     421       TTCCTC     AAACAG       TTCCTC     AAATAGCCAACAC       TTCCTCAAAATAGCAACACAACACAC     AC <th>AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA O 430 O 0 530 O 530</th> <th>TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG GAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA CACCCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA</th> <th>ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGAACACCA CTCTGAGCACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA S50 III. GGGTTTCAGACACCA TATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG</th> <th>TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA (AAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC CAAAAGGGAAC CACAAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA</th> <th>AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI (TGAAAACCTAA) CTGAAGATCTAA) CTGAAGATCTAA) CTGAAAATCTAA) CTGAAAATCTAA) CTGAAAATCTAA) CTGAAAATCTAA) CTGAAAATCTAA) CTGAAAATCTAA) CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CAGTATCATCAC ACATTCATCAC ACATTCATCAC ACATTCACCAC ACATTCACCAC</th> <th>AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG GGTATAACTTGGTG GGTATAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TAGAGTTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC</th> <th>G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC</th>	AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA O 430 O 0 530 O 530	TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG GAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA CACCCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGAACACCA CTCTGAGCACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA S50 III. 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PongoAbelii Gorilla Human Chimpanzee Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee	GTATATAATGAATAG     J       TTCCTC AAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCCAACAC     JRF1       510     52       ACGTACAAGGAAACACCAACAC     JRF1       S10     52       ACGTACAAGGAAACACAAGAAAAAAAAAAAAAAAAAAAA	AATAATAAAAGA       AATGGGGAATGT       AATAGGGAA AT       AATAAGGGAA AT       AATAAGGGAA AT       AACAAAAGGGAA AT       AACAAAAGGGAA       AACAAAAGGGAA       AACAAAAGGGAA       AACAAAAGGGAA       AACAAAAGGGAA       AACAAAAGGGAA       AACAAAAGGGAA       AACAAAAGGGAA       AACAAAAGGGAA       AACAAAAGG	TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG AAAGGAAATGTGA GGAGAAATGTA GGAGAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA CACCCTCCCAAAA CACCCTCCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT CTCTGAGCACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACACACACACACACACACACACACACACACAC	TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA (RF2 460 (GAATGGGAAC GAAAGGGAAC GAAAGGGAAC (GAAAGGGAAC (GAAAGGGAAC (GAAAGGGAAC (GAAAGGGAAC (GAAAGGGAAC (GAAAGGGAAC (GAAAGGGAAC (GAAAAGGGAAC (GAAAAGGCAA (CATGAAAGGCAA (CATGAAAGGCAA	AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI (1000000000000000000000000000000000000	AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG GGTATAAGTTATTTTG GGTATAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TAGAGCTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC	G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC
PongoAbelii Gorilla Human Chimpanzee Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse	GTATATAATGAATAG   J     TTCCTC   AAATAGCAACAC     TTCCTCAAAATAGCAACAC   TTCCTCAAAATAGCAACAC     TTCCTCAAAATAGCAACAC   TTCCTCAAAATAGCAACAC     TTCCTCAAAATAGCAACAC   TTCCTCAAAATAGCAACAC     TTCCTCAAAATAGCAACAC   AC     ACGTACAAGBAAACACAACAC   AC     ACGTACAAGBAAACACAAAAC   AC     ACGTACAAGBAAACACAAAAAC   AC     AC   ATTAGAAAACAAAAACAAAAAC     AC   ATTAGAAAACAAAAACAAAAAC     AC   ATTAGAAAACAAAAACAAAAAC     AC   ATTAGAAAACAAAAAC     AC   ATTAGAAAACAAAAAC     AC   ATTAGAAAACAAAAACAAAAAC     AC   ATTAGAAAACAAAAAC     GTOTCCAGAGAAC   AC     GTATAGA	AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA 0 430 0 430 0 430 0 430 0 430 0 430 0 430 0 430 0 430 0 530 0	TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG GAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT CTAGTCTGTAAT CTAGTCTGTAACACCA CTCTGAGCACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA S50 550 550 550 1 GGGTTTCAGAGTG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG	TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA IRF2 460 GAATSGGAAC GAAASGGAAC GAAASGGAAC GAAASGGAAC GAAASGGAAC GAAASGGAAC GAAASGGAAC CAAAAGGAA CACAAAAGGAA CACAAAAGGAA CATGAAAGGCAA CATGAAAGGCAA	AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI CTGAAAACCTAA CTGAAAACCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCACA CATTCACA CATTCACA CATTCACA CATTCACA	AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG GGTATAACTTGG S TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTGGATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC	G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC S00 AAACG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG COCTAA
PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Mouse Mouse Mouse	GTATATAATGAATAG     J       TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCAACAC       TTCCTCAAAATAGCAACACAC     TTCCTCAAAATAGCAACAC       TTCCTCAAAATAGCAACACAAC     S10     52        J     S10     52        J     ACGTACAAGGAAACAAAACAAAACAAAACAACAACAACAACAAC	AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA 0 430 0 430 0 430 0 430 0 430 0 430 0 430 0 430 0 530 0	TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG TATATTGGATG GAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGACAAATGTA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT CTAGTCTGTAAT CTAGTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA S50 L	TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA (GAATGGGAAC GAATGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC CAAAAGGGAAC S60 560 560 CGTGAGAGGGAA CATGAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA	AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI AAGCATACAATGI CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGACTCATCCAC ACATTCACCAC ACATTCACCAC	AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG GGTATAACTTATTTTG GGTATAACTTGGGG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGGAACTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC	G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC S00 AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG COCTAA COCTAA COCTAA COCTAA
PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis	GTATATAATGAATAG     J       TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCAAAAC     J       S10     52        J       ACGTACAAGGAAACACAAAAAC       ACCTACAAGGAAAAAAAAAAAAAAC       AC<-ATTAGAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA O 430 	TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG AAAGGAAATGTA GGAGAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGACAAATGTA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT CTAGTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA GGGTTTCAGACAG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG	TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA (GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC TGAAAGGGAAC TGAAAGGGAAC	AAGCATACAATG AAGCATACAATG AAGCATACAATG AAGCATACAATG AAGCATACAATG CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAAATCTAA' CTGAAATCATCAC ACATTCATTCAC CACTTCATCAC CACTTCACCAC	AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG GGTATAACTTGGTG GGTATAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGGTAAACTTGGAG TAGAGTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC	G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAAATG AAATG AAATG AAATG AAATG AAATG
PongoAbelii Gorilla Human Chimpanzee Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii	GTATATAATGAATAG   J     TTCCTC   AAACAG   CAACAC     TTCCTCAAAATAGCCAACAC   TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC   TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC   TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC   TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC   TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCAAAAGCAAAGCA   AC     AC   ATTAGAAAACAAAAGCAAAGCA     AC - ATTAGAAAACAAAAGCAAAGCA   AC - ATTAGAAAACAAAAGCAAAGCA     AC - ATTAGAAAACAAAAACAAAAGCAAAGCA   AC - ATTAGAAAACAAAAGCAAAGCA  <	AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA AATAATAAAAGA O 430 O	TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG GAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA GGAGAAAATGTA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT CTAGTCTGTAAT CTAGTCTGTAAC CCATAAA-ACCC CTCTGAGCACCA CTCTGAGCACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG	TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA (GAATSGGAAC GAAAAGGGAAC GAAAAGGGAAC GAAAAGGGAAC GAAAAGGGAAC GAAAAGGGAAC CAAAAGGGAAC CACAAAAGGCAA CACAAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA	AAGCATACAATGJ AAGCATACAATGJ AAGCATACAATGJ AAGCATACAATGJ AAGCATACAATGJ CTGAAAACCTAA CTGAAAACCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CAATTCATCAC ACATTCATCAC ACATTCATCAC ACATTCACCAC ACATTCACCAC	AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG G GTATAAACTTGG AG TGTGTAAACTTGG AG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TAGAGCTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC	G TAC G TAC G TAC G TAC G TAC G TAC S00 AAACG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AAATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AA AATG AATG AATG AA AATG AATG AATG AATG AA AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AATG AA
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PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human Chimpanzee Mouse Macaca PapioAnubis PongoAbelii Gorilla Human	GTATATAATGAATAG     J       TTCCTC AAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCAACAC     TTCCTCAAAATAGCCAACAC       TTCCTCAAAATAGCAACACAC     TTCCTCAAAATAGCAACAC       GTCTATGCAAGGAACACAAAAAAC     AC       ACGTACAAGGAAACAAAAAAAAAAAAAAAAAAAAAAAAA	AATAATAAAAAGA AATAATAAAAAGA AATAATAAAAGA AATAATAAAAGA O 430 O 530 O 530	TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG TTATATTGGATG GAGAAATGTA GGAGAAATGTA GGAGAAATGTA GGAGAAATGTA GGAGAAATGTA GGAGAAATGTA GGAGAAATGTA GGAGAAATGTA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA CACTCTCCAAAA	ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT ACTAGTCTGTAAT CTAGTCTGTAAT CTAGTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA CTCTGAACACCA S50 III. GGGTTTCAGACACG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG TAATCTGAGATG	TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA TGCCTCAAGGA (GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC GAAAGGGAAC CAAAAGGGAAC CAAAAGGGAAC CATGAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA CATGAAAGGCAA	AAGCATACAATG AAGCATACAATG AAGCATACAATG AAGCATACAATG AAGCATACAATG CTGAAAACCTAA CTGAAAACCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CTGAAAATCTAA CAGATCATTCAC ACATTCATCAC ACATTCACCAC ACATTCACCAC ACATTCACCAC	AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG AA TAAGTTATTTTG GGTATAACTTGGTG GGTATAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAAACTTGGAG TGTGTAACTTGGAG TAGAGTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC TAGAGCTGGAATTTC	G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC G-TAC