|  | 13,692 13,697 | 13,766 13,771 | 13,814 13,819 | 14,408 14,413 | 14,482 14,487 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Human Chimpanzee Gorilla Orangutan Gibbon Macaque | C A C GTG | C A C G C G | C A C G C G | CACGTG | C A C G C G |
|  | C A C G T A | C A C G A G | G A C G C G | C A C G T | CACGAG |
|  | G C C A T C | C G C G C G | C A C G C G | G - - - | CAA G C G |
|  | GCAGTG | C G C G C G | C A C G C G | G C C G T | C A C G C G |
|  | GCCGCG | C CGGC G | CACGCG | - | - _ _ _ - |
|  | GCTCAT | T C G G C G | C A C G C G | - - - - - | - - - - - |
|  |  |  |  | c5 | c5 |
|  | 14,530 14,535 | 15,177 15,182 | 16,139 16,144 | 16,191 16,196 | 16,265 16,270 |
| Human <br> Chimpanzee Gorilla Orangutan Gibbon Macaque | C A C G C G | C A C G T G | C A C G T G | C A C G T G | C A C G C G |
|  | GACGCG | CACGTG | CACGTG | CACGTG | C A C G C G |
|  | C A C G C G | CACGTG | CACGTG | CACATG | C A C G C G |
|  | CACGCG | TACGTA | CATACA | CACACG | C A C G C G |
|  |  | TAAGTA | CATATA | CACATG | CAGGTG |
|  | - - - - - - | TGCCTA | - - - . - - | CACATA | CACGCG |
| Human <br> Chimpanzee <br> Gorilla <br> Orangutan <br> Gibbon <br> Macaque | 16,267 16,272 | 17,750 17,755 | 17,756 17,761 | 18,795 18,800 | 18,969 18,974 |
|  | C G C G T G | C A C G C G | C A C G C G | C A C G C G | C A T G C G |
|  | C G C G T G | C A C A C A | C A C A C A | C A C G C G | C G T G C G |
|  | C G C GTG | C A C G C A | C A C A C A | C A C G C G | CATGCG |
|  | C G C G T G | C A C A C A | - CTCT | C A C G C G | C G G C C G |
|  | GGTGTG | CACACA | C A C A C A | CATGCG | CGTGCG |
|  | C G C G T G | - - - - - | C A C A C A | CATGCG | TATGCA |
| Human Chimpanzee Gorilla Orangutan Gibbon Macaque | 19,869 19,874 | 24,018 24,023 | 24,161 24,166 | 24,299 24,304 | 28,383 28,388 |
|  | C G C G T G | C G C G T G | CACGTG | C G C G T G | C G C G T G |
|  | C G C G T G | C G C G T G | CACGTG | C G C G C G | C G C G T G |
|  | C G C G T G | _ _ _ _ _ - | _ - . . . - |  | C G C G T G |
|  | CACCTG | - - - - - - | - - - - - - | - - - - - - | C G C G T G |
|  | C G C GTG | - - - - - - | - - - - - - | - - - - - - | T G C G T G |
|  | C G C G T G | c24 | - - - - - - | - - - - - - | $\begin{array}{r} \mathrm{TGC}- \\ \mathrm{c} 28 \end{array}$ |
| Human Chimpanzee Gorilla Orangutan Gibbon Macaque | 28,526 28,531 | 29,456 29,461 | 37,202 37,207 | 40,436 40,441 | 42,030 42,035 |
|  | C A C G T G | C G C G T G | C A C G T G | C G C G T G | C A C G C G |
|  | CACGTG | C GCGTG | CACGTG | C G C GTG | C ATGTA |
|  | CACGTC | C GCGTG | CACGTG | C GCGTG | CATGTG |
|  | CACGTG | C GCGTG | CTCGTG | C GCGTG | TATGTA |
|  | CACGTG | C GCGTG | CACGTG | C G CGTG | TATGTA |
|  | CACCTG | $\begin{gathered} \mathrm{C} \mathrm{G} \mathrm{C} \mathrm{G} \mathrm{~T} \mathrm{G} \\ \mathrm{c} 32 \end{gathered}$ | CACATG | CGTGTG | TATCTG |
| Human <br> Chimpanzee <br> Gorilla Orangutan Gibbon Macaque | 42,872 42,877 | 43,383 43,388 | 43,616 43,621 | 43,784 43,789 |  |
|  | C A C G C G | C G C G T G | C G C G T G | C G C G T G |  |
|  | CACGCG | C GCGTG | C G C GTG | C GCGTG |  |
|  | CACACG | C G C GTG | C G C GTG | C G C G T G |  |
|  | CAGACG | C G C G T G | CTCGTG | C GCGTG |  |
|  | CAGACG | C G C G T G | C G C G T G | C G C G C G |  |
|  | CACACG | G G C T G | C G C GTG | G G C G T G |  |
|  |  | c49 | c49 | c49 |  |

S4 Figure: Sequence conservation of potential c-Myc binding sites in the human IGS. Alignments of all 29 potential c-Myc binding sites in the human IGS are shown. Alignments corresponding to conserved regions identified in this study are shown in pink boxes, with the name of the corresponding conserved region indicated below. The coordinates of each c-Myc binding site relative to the human rDNA sequence are indicated on the top of each alignment. The nucleotides that are conserved with human are shown in black and that mismatches are in grey. Absence of an orthologous c-Myc binding site is indicated by hyphens.

