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                3539                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                |  HS4 Lowrey                |                |                |                |                |                |                |  HS4 Lowrey
3530:  GTGGACCTGGGAGGAGGGTTATTGTCCATGACTGGTGTGTGGAGACAAATGCAGGTTTATAATAGATGGGATGGCATCTAGCGCAATGACTTTGCCATCA  human
2581:  .CA..A.......A.AAA..-..A.........A...A...-..T...GATG......T-----..................T........C......AT.  galago
3242:  AG..........A.....G........TCA......A..A.------------.A...G-----AC.CA..CA.....A..TA....TG.C...TGT.T.  rabbit

                                                  3664       3674       3684       3694                  3707
          SacI begin HS4 pos ind                  |          |          |          |                     |
3630:  CTTTTAGA-----GAGCTCTTGGGGACCCCAGTACACAAGAGGGGACGCAGGGTATATGTAGACATCTCATTCTTTTT-------CTTAGTGTGAGAATA  human
2674:  ......A.-------..T....T...T...AG.C.T........A.GT.T......C..A....AT.T.G.GGG.....TTCTTCC.....G.GTG.GG.C  galago
3325:  ........ATAAA...AGT..T.A.T...ATAAT..A......A...C......GC.CA....TC...G.A.GCC..C----------------..TG.G  rabbit
  97:                                                                  ...TTC.T....-------T..TT.TG.TAGG.G  mouse.hs4

                3727       3737       3745       3755       3765                  3778       3780       3790
                |          |          |          |          |          |          |          |     YY1    |
3718:  AGAATAGCCATGACCTGAGTTTATA--GACAATGAGCCCTTTTCTCTCTCCCACT-------CAGCAGCTA--------TGAGATGGCTTGCCCTGCCTC  human
2769:  ...-....................G---.C.TGG..CATT.CC..C..........TATGTAG..AT..AA.--------.......A....TT.....C.  galago
3409:  ....G..AT.....................C..CAGCCAT.A.CC.TT.CCC..........--------.......C.GGTCAGAG....C.T.A.CA.....C.  rabbit
 125:  .C.G..A.....T.TCA..G..TC.GATCATGAACAATT.GCC......TA..TC-------T......A.TGTCAGAA.......T...CA..C.  mouse.hs4

                3810       3820       3830       3840       3848                                  3878       3888
                |  AP1     |          |          |          |          GATA    GATA1PstI          |          |
3801:  TCTACTAGGCTGACTCACTCCAAGGCCCAGCAATGGGCAG--GGCTCTGTCAGGGCTTTGATAGCACTATCTGCAGAGCCAGGGCCGAGAAGGGGTGGA-  human
2857:  .G.GG.........|.......GA.TG...AG..A..ACA--..TC.....AA...C...|....T.....A..|G.A....AG.-..G.....CCTG-  galago
3502:  .G.G..G.TT....|......T.........C....AAG.-A..TC.....T.....CA..C.............|G......A.TT..GC....CT.GT  rabbit
 218:  .T......T....GATC....C.CC.ATG...|.G...AGTGA.ATC...C..A.A..C...|..AT.......A.T.|GA.....A---..CCA..------  mouse.hs4

                3904                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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3898:  ---CTCCAGAGACTCTCCCTCCCATTCCC-GAGCAGGGTTTGCTTATTTATGCATTTAAATGATATATTTATTTTAAAAGAAATAACAGGAGA--CTGCC  human
2953:  --------A..C....|.....T.G...TA..AT.AA.....T.....A.GTT........A.....|........T..........GG..GA.AT....  galago
3601:  AGG...T...A.G.T.........GCAAGT...G.A....G.....|.....CAT......G..TC....G......T...........TA.TAG------.  rabbit
 309:  ----...AGAGCCT.GG.TT...A.C.G..AA.CAGCA......ACT...G.AT......G.TG...GC.......T.........C.TA..TG-T...TA  mouse.hs4

                4001       4011       4021       4025       4035       4045                  4064
                |          |          |          |          |          |          |          |
3992:  CAGCCCTGGCTGTGACATGGAAACTATGTAGAA------TATTTTGGGTTCCATTTTTTTTCCTTCTT-----------TCAGTTAGAGGAAAAGGGGC  human
3050:  T.......T..A..-...AC....CTC.....------.G....ATA..T...C.A..----.....CCCATAATGAGC...........C.G...A..  galago
3695:  .T....AACT..G.-...A..C.GC.CC.....------A.....ACAA...T.C.G.----.TG...C-TCACAGGAGCA..A.......C......CA  rabbit
 405:  ......A.A.....C........|...CT.T...GGGTTT.G......|.G.TTTG....                                        mouse.hs4

                4084       4094       4104       4114       4124       4134                  4144       4154
                |          |          |          |          |          |          |          |          |
4075:  TCACTGCACATACACTAGACAGAAAGTCAGGAGCTTTGAATCCAAGCCTGATCATTTCCATGTC----------ATACTGAGAAAGTCCCCACCCTTCTC  human
3140:  C..A..T.A..G..T..A.TG.C....T.A...T.....G...T......GA......T...G.TAGTTAAA--.C..........ATT........T..  galago
3784:  CTCTC.A.AG.G.C----------------------...G..AG......TG......A...A.AAACAAAATC......C...-....T...A..A...  rabbit

                4174       4184       4194                                  4224       4234       4244
                |          |          |  HS4 ForresterHS4 Tuan             |          |          |     NsiI
4165:  TGAGCCTCAGTTTCTCTTTTATAAGTAGGAGTCTGGAGTAAATGATTTCCAATGGCTCTCATTTCAATACAAAATTTCCGTTTATTAAATGCATGAGCT  human
3238:  ..............CTC..C.G...A.....TG...A......CA...C...G...TG..TC......C.T.G......TA..G...G...CT...G.A.  galago
3861:  ....A...G.....C.C..CC.......CA..C.......T.......C...G......CTC.C...GC...G..G...TAGAG........A...CA..  rabbit
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