## **Supporting Information**

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## SI Methods

We have utilized the human telomerase protein sequence (GenBank accession no. NM\_198253.2). In order to study sequence conservation within the telomerase protein family, PSI-BLAST (1) searches were carried out against the NCBI nonredundant protein sequence database using this human telomerase sequence as query (three iterations, E-value threshold 0.005). Multiple sequence alignments of collected sequences were prepared with PCMA, a progressive alignment method (2). Additionally, to obtain secondary structure conservation patterns useful for fold assignment validation and for manual curation of the sequence-to-structure alignments, for every aligned sequence, the secondary structure was predicted with PSI-PRED (3).

Templates for comparative modeling of human telomerase domains were identified using the Gene Relational Database (GRDB) system, which stores precalculated Meta-BASIC mappings (4) between Pfam families, conserved domains, and PDB structures. Meta-BASIC is a distant homology detection method that exploits comparisons of sequence profiles enriched with predicted secondary structures (meta-profiles) (4). Meta-BASIC predictions were further validated with the consensus fold recognition server, 3D-Jury (5), followed by manual inspection of the hits obtained. All searches were carried out by using the complete telomerase sequence and the sequences of its three separate protein domains: TEN, TRBD, and RT. Sequence-to-structure alignments between human telomerase (and its closest homologs) and selected proteins of known structure were prepared using the consensus alignment approach and 3D assessment (6).

Three-dimensional models of human telomerase protein domains were generated with Modeller (7) based on manually curated, high confidence sequence-to-structure alignments. These models were built separately for (i) the TEN domain, using T. thermophila TEN (PDB ID code 2B2A) (8); (ii) the RT: TRBD subcomplex, using the corresponding structure of T. thermophila TEN T. castaneum RT-TRBD (PDB ID code 3KYL) (9) and the superimposed TRBD domain from T. thermophila (PDB ID code 2R4G) (10) as templates, because the T. castaneum TRBD domain lacks two critical  $\alpha$ -helices that are present both in human and T. thermophila TRBD. The resulting 3D models of TEN and the RT:TRBD subcomplex were then assembled manually after careful consideration of the CABS (11) results for protein domain docking (described below) and published experimental data regarding specific residues proposed to mediate interdomain interactions (Table S1). Additionally, conservation of surface residues was investigated with ConSurf (12), in order to detect patterns of highly conserved amino acids that might suggest plausible interactions and the location of interfaces between domains (Fig. S6).

Automatic CABS assembly of the modeled human telomerase domains was performed using a three-stage docking procedure. First, rigid docking via an exhaustive global search in a six-dimensional space of "ligand" rotations and translations against the frozen structure of the "receptor" was carried out using FTDOCK (13). Rotational space was scanned in 12-degree increments. For translations, sampling was performed on a cubic lattice with 0.875-Å spacings. For each rotation, the three top-scoring translations were saved for subsequent analysis. The resulting 10,000 FTDOCK top-scoring structures were rescored with the CABS force field and grouped using hierarchical clustering. From each cluster, a representative with the lowest energy was selected. The number of models was thereby reduced from 10,000 to 30.

To account for protein flexibility upon complex formation, each resultant structural model was subjected to a short stochastic dynamics simulation with the CABS algorithm. From each simulation 1,000 models located in the vicinity of the initial structure were collected. Hierarchical clustering was again used to select the most populated states. Structures from the centers of the clusters were extracted to represent variants of the final telomerase tertiary structure. These representatives were used as starting models for further manual adjustments based on the consistency of the model with available experimental data (Table S1) and according to surface conservation in individual domains.

Positions of the intrinsic RNA template and single-stranded telomeric DNA substrate in the human telomerase model were copied from the T. castaneum telomerase structure (PDB ID code 3KYL) after superposition of their RT and TRBD domains. The sequence of the RNA: DNA hairpin containing RNA template was modified: 5'-CUGACCUGA-3' and the complementary telomeric DNA: 5'-TCAGGTCAG-3' were replaced with 5'-UA-ACCCUAA-3' and 5'-TTAGGGTTA-3' sequences suitable for human telomerase. The hairpin loop (5'-CTTCGG-3') was removed and, to allow for interaction with the TEN domain, the double helix was extended by 7 base pairs (resulting in DNA: 5'-GTTAGGGTTAGGGTTA-3', RNA: 5'-UAACCCUAACU-GAGAA-3'). The telomeric DNA is less complementary to the RNA at the 5' end; however, a nonclassical (e.g., wobble) pairing might still be sufficient for double helix formation. Finally, minor adjustments of the TEN domain were made to improve its fit between the nucleic acids and the protein domains in the complex.

To relieve steric clashes and improve internal packing, the 3D partial model of the human telomerase complex, comprising all three protein domains and the RNA: DNA heteroduplex, was energy-minimized with Tripos SYBYL using an AMBER force field (14), followed by a short molecular dynamics run (simulation time of 0.2 ns, a NTV ensemble, 100 fs coupling, Boltzmann initial velocities, Amber7 FF99 force field, Gasteiger–Hückel charges and dielectric constant = 1).

The final model was used to investigate the motions of the structure using simple coarse-grained elastic network models in conjunction with normal mode analysis. This approach has been widely used to investigate important functional motions of biomolecular structures (15). It is based on a highly cohesive model of structure and investigates particularly the larger motions that are available within the constraints of the geometry of the structure. Residues close to each another in the structure are connected with identical springs and the vibrational motions of the set of springs are analyzed with a normal mode decomposition (16). The approach has proven useful for extracting the functional motions of large domains in many structures (15). Notably the computed motions are quite insensitive to details of the structure, which means the computed motions reported here are robust and unlikely to be changed by any minor errors in the model. In the case of the human telomerase complex, our modeled structure, together with these dynamics simulations, allowed us to investigate the functional role of the TEN domain in telomere elongation.

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Fig. S1. The central ring-shaped part of the human telomerase model, formed by TRBD and RT domains, accommodating the RNA:DNA heteroduplex and providing catalytic residues. (*A*) Ring-shaped structure formed by RT (palm, fingers, thumb) and TRBD domains. (*B*) The channel formed by RT and TRBD domains is responsible for binding the RNA:DNA heteroduplex. (*C*) Locations of sequence motifs (in boxes) and residues shown experimentally to be important for nucleic acid binding and catalysis of template-based telomere elongation reaction.

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|       |   | 0572040 20   | a >> IGARREVEILEDBAR(I  
   | 4) KKIWQAKP DPQQDD VNHARCI   | I VREEKSHCKFRI HAP   
   
  | 3QV(IO)KERNEEK(4)EWQ   | IGFLQRCVGRL (57 H   
   
  | QRREPRINT REPTS (  | ) DRUSDQEDIW  
   | (15) FRAERKIKERTER  
  | The when DA- IV  
  | VEDERSFETV EITFORNREF   | TRESSMEND   | 310 KRHELERVEDUL   | 130(15) >>  
   |  |
|       | <u>-</u>  | 1263208/9 M  | a >> SG <mark>G</mark> QKLVETI <mark>R</mark> DTSH(2  
   | I) KRAMÖ <mark>M</mark> KE <mark>PIE</mark> KE <mark>PI</mark> ÖNHK <b>KC</b> I  | 2 FILLKKNCPLKFSA/  
   
  | AKA (23) DI LQLLR (4) PWQ  | AARPERCPHER (a) H   
   
  | akce <mark>b</mark> ern <mark>a</mark> ek <mark>el</mark> t (*   | ) DKESTRETW   
   | (19) PASEHRLREE <mark>ILAR</mark>   
  | SVYWLMNT-YV  
  | ARPERED ALLELME OWNER DE  | CARKCAMSETO   | NIG <mark>I</mark> RK <mark>H</mark> FEK <mark>V</mark> H <mark>L</mark> KL  | TRE(12) >>  
   |  |
| 17    | 51  | 71896531 G   | g >> AGGRRLIETIFLSQN(2  
   | 1) KRYWQ <mark>M</mark> RE <mark>IF</mark> QK <mark>LV</mark> KNHEKCI  | PYLV <mark>FL</mark> RK <mark>NC</mark> PVLLSE/  
   
  | ACL (61) LLRELLR (4) HWQ   | YGEVRECLERV (9) H   
   
  | KCRFFKNVKAFIS (+   | ) AK <mark>L</mark> SLQQ <mark>LM</mark> W  
   | (19) PAYEHCYREE <mark>IL</mark> AK  
  | FLY <mark>WLM</mark> DS- <mark>YV</mark>   
  | IELLKSFFYITETMFQKNMLFY  | YRKFIWGKLQ  | NIG <mark>I</mark> RD <mark>H</mark> FAK <mark>V</mark> HLRA   | LSS(15) >>  
   |  |
| 15    | <b>2</b> 1 :  | 134254850 Cr   | m >> AGVKRLIETIFLSQN (2)  
   | 1) KRFWRMRS <mark>TF</mark> QK <mark>LL</mark> KNHG <b>KF</b> I  | PYVA <mark>FL</mark> RONCPLRISE'   
   
  | FIL (73) VLRELLK (4) HFQ   | YLFVRECVERV (9) H   
   
  | KRR <mark>F</mark> FKN <mark>V</mark> KA <mark>FI</mark> S (+  | ) AKLSLQVIMW  
   | (19) PASEHRYREE   
  | 7LYWLMDT-YV  
  | VELLRSFFYITETMFQKNMLFY  | YRKCIWAKLO  | DIG <mark>I</mark> RK <mark>H</mark> FAK <mark>VQL</mark> RP   | LTA(15) >>  
   |  |
| - 12  | -   | 213623930 X  | 2 >> SGSOKLVETTELSNE(2)   
   | O ) KRYWK <mark>M</mark> KP <mark>HF</mark> OR <mark>LT</mark> ONHKK <mark>F</mark> I  | VLVYLNKHCPVRSSM  
   
  | ACS (24) NLLSLLK (4) TWO   | WMEVRECT.NNV (9) H  
   
  | KCREFRNVKSFLF (  | ) GKTSLSELMW  
   | (19) PASEHLLREKTLAK   
  | ZVENIMDT-YV  
  | TOLLKSFFYVTETMFOKHRULF  | WRKSVWKKLO  | NTG <mark>L</mark> RK <mark>H</mark> LEK <mark>VKL</mark> RS   | LSS(15) >>  
   |  |
| 1     | -13   | 62004478 T   | r >> IOGRDLIBIVEFEGU(1  
   | A) REFERMUTESOLLEOHERCI  | SPLLOKTOPLACIKI  
   
  | DACI 21ELSSELP/41SHP   | VLEVRECT LAW (9) H  
   
  | BLLYFARUREFLR (  | FRISUARTMW  
   | (18) PRSELSYRTOTICO   
  | TANLING-FM   
  | VOLUPACEYATESMOOKNATES  | ROEVWARLO   | DLAFRSHISKGOMVE  | TTP(12) >>  
   |  |
|       |   | 02004470 1.  | - >> IOGRDINITIPEDGV(I  
   | A) DREFERRY F BEOQUERQUINKO  | SKELQRICE BVGIR  
   
  | 2761331 br (4) 500   |   
   
  | TABLE PRACTER (  | ) ERECTADING  
   | (10) PPOELOIRIQUEO  
  | TAWLING W  
  | VOLVENACE TA ESHOQENATE   | ROCUMANDO   | DIAPROFILOROUPP  | MED (12) >>   
   |  |
|       |   | 00110004 14  | C >> POOIDPAKIALSPOP(I  
   | 4) KREF INVEVESKULRONKKO   | FISRIEQRIC FVVEDRI   
   
  | ALO( 2) DESSERT(4) FRR   | TPEARPORT (2) H   
   
  | RUHE SKARGE LR ()  | ) ERUSTAETOW  
   | (18) FFSELSIRIQIEGQ   
  | PHWPPDQ-LA   
  | VSDVRACE IV BSVGQRNAVRE   | TROEAMARTE  | DLAP RGHLSRGQNEE   | DIF(12) //  
   |  |
|       |   | 157278369 0.   | 1 >> FÖ <mark>G</mark> ÖDFAKFA <mark>k</mark> bRÖF(1  
   | 4) LRYFN <mark>M</mark> VP <mark>VF</mark> GR <mark>LL</mark> QRHR <b>KC</b> E   | R <mark>y</mark> ss <mark>vl</mark> hr <mark>mc</mark> pvvelse   
   
  | RAA( 2)ELSSLIP(4)PHR   | ATEABRECTIVA (a) H  
   
  | ARTÖrebuk (*   | ) ER <mark>I</mark> SVAE <mark>LM</mark> W  
   | (19) PPSELAYRTR <mark>IL</mark> SQ  
  | FUTWELDG-FV  
  | WGLVRACFYATESVGQKNAIRF  | <b>A</b> KÖEAM2K <mark>TÖ</mark>  | DLA <mark>F</mark> RR <mark>H</mark> IAK <mark>G</mark> EMEE   | LSP(12) >>  
   |  |
|       |   | 82879991 <i>O</i>  | m >> LQGQDLVRLVFFQGL(1)   
   | 4) LRFFRMVP <mark>VF</mark> GE <mark>LL</mark> QRHR <b>KC</b> I  | P <mark>Y</mark> TR <mark>VL</mark> QR <mark>MC</mark> PLVEESE   
   
  | RAA( 2)QPSSLIP(4)PHR   | YLFVRACLITV (9) H   
   
  | RLQFFTK <mark>V</mark> RC <mark>FL</mark> K (+   | ) ERVSVAELMW  
   | (18) PPSELTYRTQ <mark>IL</mark> SL  
  | FLTWLLDG-FV  
  | VG <mark>LVQACFYATD</mark> SVGQKST <mark>I</mark> R <mark>F</mark>  | YRPEVWNKLR  | DLA <mark>F</mark> RN <mark>H</mark> VAK <mark>G</mark> QMEE   | LTP(12) >>  
   |  |
|       |   | 224038454 N  | f >> LO <mark>G</mark> KDLIRII <mark>F</mark> FEGL(1  
   | 4) RRFFHMVPLFNRLLOOHRKCI   | YSRILORICPVAEOSS   
   
  | SVD( 2)ELNSLLP(4)PHR   | YLEVRECLLAV (9) O   
   
  | RLHFFARVRDFLH (-   | ) EKTSLAKVMW  
   | (18) PPSELAYRTO <mark>IL</mark> GO  
  | LAWLLDG-YV   
  | VGLVRACEYATEGMROKCCIRE  | YRREVWAKLO  | DLA <mark>F</mark> KD <mark>Y</mark> LAK <mark>S</mark> OMKE   | LCP(12) >>  
   |  |
|       |   | 215422509 D  | >> MOGEDLVBMIFLOSE (1)  
   | 1) KREEAMVPLESRLUROHRKC  | REPORKCACNEDV-   
   
  | ( 4)SLLK(4) PVB  | VLEVRECLERT (9) E   
   
  | OLHELSNVKNELL  | DEBLTLVOLMW   
   | (1.6) CASEHRYREWMLGO  
  | MOMMISC-FU   
  | VOLVRAOEVITESMOHKHTLRE  | WRGDVWSRLO  | DOARRAHLCKCOWRP  | 1SP(12) >>  
   |  |
|       | 13  | 2-4-7 3 1  | + (27) HPOTITKETLEEY/   
   | S) FERDIELE FTER INONEHNI  | FNYLL KKECKI PENY  
   
  | OSL (21) LENSLYD (4) VKO   | TNELPOTIONC (B) K   
   
  | FKURLEKLYFFUO (  | ) ENOKULDATC  
   | (20) KRKYTSDKRKTLCD   
  | TURTINK-TW   
  | TRULPANEY TOEKHKEGSOTEN   | VERPTNET  | KUTTUKLEFENLEKV  | REK(1)  
   |  |
|       |   | alay_n i   | - (24)  
   | o) LENDLE LEFTERINGATINT   | PATER COLLECTER I  
   
  | 201(21)1FN0110(4)1N2   |   
   
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   | (12) REALISPERATION   
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  | TEVERTRETT ERINEGOUTT   | TRAFINCING  | RELEVENERS REPORT  | DDR( I)   
   |  |
|       | - ·   | 2KAT W 10  | C (24)  
   | STRUIMENTRUC.  |  
   
  | ( ))   | QIPUDOPI (2) 1  
   
  | apuu <mark>t</mark> iva <mark>a</mark> tuitii (.   | ) DOTUDOVDIK  
   | (13) EPRIDRPRED   
  | HATE PROFA-TA  
  | VEITWEITWEIWEIWICH-GUDIVE   | TRVEPRISE   | SVA <mark>C</mark> UM <mark>P</mark> VMMV1 <mark>P</mark> AP   | WODI OF 22  
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|       |   |  | A MORETE 1 & A MORE   
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  | MOTIF C-   
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   |  |
| Г     |   | 119628571 <i>H</i> :   | s >> SRLRFIPEREE  
   | (22) LTSR <mark>V</mark> KA <mark>L</mark> FS <mark>VL</mark> NYERA (  | HHHHHHHHHHH<br>) I <mark>H</mark> RA <mark>W</mark> RT <mark>F</mark> VLR <mark>V</mark> (8)   
   
  | <motif a=""><br/>EEEEEE HHHI<br/>LYFV<mark>KVD</mark>VTG<mark>AYD</mark>TIPQDR</motif>   | HHHHHH HHHHH<br>TE <mark>VI</mark> AS (71) SG <mark>LF</mark> O   
   
  |  | MOTI<br>EEEE HHHH<br><mark>SY</mark> VQ(9)LSTL  
   | FB'> <<br>HHHHHHHHHHHHH<br>LCSLCYGDMENKLF(6)  
  | MOTIF C-<br>EEEEE EEE<br>LLRLV <mark>DD</mark> FLL   
  | > <motif<br>EE HHHHHHHHHHHHHHHHH<br/>MTPHLTH<mark>A</mark>KT<mark>F</mark>LRT<mark>L</mark>VRGVPE<mark>Y</mark></motif<br>  | D<br>EE<br>IGCVVNLR <mark>KTV</mark>  | > <-<br>EEE EEEEEE<br>VN <mark>F</mark> (18)G <mark>LFPWCGL</mark>   | -MOTIF E-><br>EEE EEEEEE<br>ILL <mark>DT</mark> RTLE <mark>VO</mark> SD(2   
   | 20) >:   |
| Г     | ר   | 119628571 <i>H</i><br>114598861 P  | s >> SRLRFIPKPDGLRPIVN<br>sRLRFIPKPDGLRPIVN<br>t >> SRLRFIPKPDGLRPIVN   
   | (22) LTSRVKALFSVLNYERA (<br>(22) LTSRVKALFSVLNYERA (<br>(22) LTSRVKALFSVLNYERA (   | HHHHHHHHHHH<br>) IHRAWRTFVLRV (8)<br>) IHRAWRTFVLRV (8)<br>) IHRAWRTFVLRV (8)  
   
  | <motif a=""><br/>EEEEEE HHH<br/>LYFVKVDVTGAYDTIPQDR<br/>LYFVKVDVTGAYDTIPQDR</motif>  | HHHHHH HHHHH<br>TEVIAS (71) SG <mark>LF</mark> D<br>TE <mark>VI</mark> AS (74) SG <mark>LF</mark> D   
   
  | IHHHHHH EBEER I<br>IFLRFMCH <mark>HAVRI</mark> RGI<br>IFLRF <mark>VCRHAVRI</mark> RGI  | MOTI<br>EEEE HHHH<br>SYVQ(9)LSTL<br>SYVQ(9)LSTL   
   | F B'> <<br>HHHHHHHHHHHHH<br>LCSLCYGDMENKLF(6) G<br>LCSLCYGDMENKLF(6) G  
  | MOTIF C-<br>SEEEEE EEE<br>JLLRLVDDFLL  
  | > <motif<br>EE HHHHHHHHHHHHHHH<br/>MIPHLTHAKTELRTLVRGVPEY<br/>MIPHLTHAKAELRTLVRGVPEY</motif<br>   | D<br>EE<br>GCVVNLRRTV<br>GCVVNLRRTV   | > <-<br>EEE EEEEEEE<br>VNF(18)GLFPWCGL<br>VNF(18)GLFPWCGL  | MOTIF E-><br>EEE EEREEEE<br>LLDTRTLEVQSD(2<br>LLDTRTLEVQSD(2  
   | 20) >:   |
| Γ     |   | 119628571 H:<br>114598861 P:<br>114053049 B:   | s >> SRLRFIPKPDGLRPIVN<br>SRLRFIPKPDGLRPIVN<br>t >> SRLRFIPKPGGLRPIVN<br>t >> SRLRFVPKPGGLRPIVN   
   | HHHHHHHHHHHHHHHH<br>(22) LTSRVKALFSVLNYERA (*<br>(22) LTSRVKALFSVLNYERA (*<br>(22) LSSRVKTLFAVLNYERA (*  | HHHHHHHHHH<br>) IHRAWRTFVLRV (8)<br>) IHRAWRTFVLRV (8)<br>) IHRAWRAFVLPL (8)   
   
  | <motif a=""><br/>EEEEEE HHH<br/>LYFVKVVVGAYDTIPQDR<br/>LYFVKVVVGAYDALPQDK<br/>LYFVKVVVGAYDALPQDK</motif>   | HHHHHH HHHHH<br>TE <mark>VI</mark> AS (71) SG <mark>LF</mark> D<br>TEVIAS (74) SGLPD<br>AEVIAN (71) SSLFN   
   
  | HHHHHH EEEEE 1<br>/FLRFMCHHAVRIRGI<br>/FLRFVCRHAVRIRGI<br>LFLHLVRSHVIRIGGI   | MOTI<br>EEEE HHHH<br>SYVQ(9)LSTL<br>SYVQ(9)LSTL<br>SYIQ(9)LSTL  
   | FB'> <<br>HHHHHHHHHHHH<br>LCSLCYGDMENKLF(6)G<br>LCSLCYGDMENKLF(6)G<br>LCSFCYGDMENKLF(6)G  
  | MOTIF C-<br>SEEEEE EEE<br>LLRLVDDFLL<br>LLRLVDDFLL<br>/LLRLVDDFLL  
  | > <motif<br>REE HHHHHHHHHHHHHH<br/>WTPHLTHAKTELRTLVRGVPEY<br/>WTPHLTRAKAFLRTLVRGVPEY<br/>WTPHLTRARDELRTLVRGVPEY</motif<br>  | DEE<br>GCVVNLBRTV<br>GCVVNLBRTV<br>GCQVNLBRTV   | > <-<br>EEE EEEEEEE<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL<br>VNF (18) CLFPWCGL   | MOTIF E-><br>EEE EEEEEEE<br>LLDTRTLEVQSD(2<br>LLDTRTLEVQSD(2<br>LLDTRTLEVHGD(2  
   | 20) >:<br>20) >:<br>20) >:   |
| Γ     |   | 119628571 H<br>114598861 P<br>114053049 B<br>72255555 C.   | s >> SRLRFIFKPDGLRFIVN<br>t >> SRLRFIFKPDGLRFIVN<br>t >> SRLRFIFKPDGLRFIVN<br>t >> SRLRFIFKPDGLRFIVN<br>t >> SRLRFIFKPSGLRFIVN  
   | HHHHHHHHHHHHHHHH<br>(22) LISRVKALFSVLNYERA (*<br>(22) LISRVKALFSVLNYERA (*<br>(22) LISRVKTLFAVLNYERA (*<br>(22) LISRVKTLFAVLNYERA (*<br>(22) LISQLKTLFSVLNYERA (*  | HHHHHHHHHH<br>7) IHRAWRTFVLRV (8)<br>7) IHRAWRTFVLRV (8)<br>9) IHRAWRTFVLRI (8)<br>7) IHRAWRTFVLRI (8)   
   
  | <motif a=""><br/>EEEEEE<br/>LYFYKVDYTGAYDTIPQDR<br/>LYFYKVDYTGAYDAIPQDR<br/>LYFYKVDYTGAYDAIPQDR<br/>LYFYKVDYTGAYDAIPQDR</motif>  | HHHHHH HHHHH<br>TE <mark>VI</mark> AS (71) SGLFD<br>TEVIAS (74) SGLPD<br>AEVIAN (71) SSLFN<br>VEVIAN (72) SSLFH   
   
  | HHHHHH EEEEE I<br>VFLRFMCHHAVRIRGI<br>VFLRFVCRHAVRIRGI<br>LFLHLVRSHVIRIGGI<br>LFLHLVRSHVIRIGGI   | MOTI<br>EEEE HHHH<br>SYVQ (9) LSTL<br>SYVQ (9) LSTL<br>SYIQ (9) LSTL<br>SYIQ (9) LSTL   
   | F B'> <<br>HHHHHHHHHHH E<br>LCSLCYGDMENKLF(6) G<br>LCSLCYGDMENKLF(6) G<br>LCSFCYGDMENKLF(6) G<br>LCSLCYGDMENKLF(6) G  
  | MOTIF C-<br>SEEEEE EEE<br>SLLRLVDDFLI<br>SLLRLVDDFLI<br>/LLRLVDDFLI<br>/LLRLVDDFLI   
  | > <motif<br>EE HHHHHHHHHHHHHHHHHHHHHH<br/>WTPHLTHAKTELRTLVRGVPEY<br/>WTPHLTHAKTELRTLVRGVPEY<br/>WTPHLTQAQAELRTLVRGVPEY<br/>WTPHLTQAQAE</motif<br>   | DEE<br>GCVVNLRKTV<br>GCVVNLRKTV<br>GCQVNLRKTV<br>GCRANLOKTA   | > <-<br>EEE EEEEEEE<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL  | MOTIF E-><br>EEE EEEEEEE<br>LLDTRTLEVQSD(2<br>LLDTRTLEVQSD(2<br>LLDTRTLEVHGD(2<br>LLDTRTLEVHGD(2)   
   | 20) >:<br>20) >:<br>20) >:<br>20) >:   |
| Γ     |   | 119628571 H<br>114598861 P<br>114053049 B<br>72255555 C<br>6678291 M   | s >> SRLRFIPKPDGLRPIVN<br>t >> SRLRFIPKPDGLRPIVN<br>t >> SRLRFIPKPDGLRPIVN<br>t >> SRLRFIPKPDGLRPIVN<br>t >> SRLRFIPKPSGLRPIVN<br>t >> SRLFIPKPSGLRPIVN<br>t >> SRLFIPKPSGLRPIVN  
  | HHHHHHHHHHHHHHH<br>(22) LTSRVKALFSVINYERA (*<br>(22) LTSRVKALFSVINYERA (*<br>(22) LSSRVKTIFAVINYERA (*<br>(22) LTSQLKTIFSVINYERA (*<br>(22) FTORIKTIFSMINYERA (*   | HHHHHHHHHH<br>7) IHRAWRTFVLRV (8)<br>7) IHRAWRTFVLRV (8)<br>7) IHRAWRAFVLPL (8)<br>7) IHRAWRTFVLRI (8)<br>7) IHRAWRYVLRV (8)  
   
   | <motif a=""><br/>REFERE<br/>UYFV&amp;UVTGAYDTIPORI<br/>UYFV&amp;UVTGAYDTIPORI<br/>UYFV&amp;UVTGAYDALPORI<br/>UYFV&amp;UVTGAYDALPORI<br/>UYFV&amp;UVTGAYDALPORI</motif>   | HRBHRH HRHHH<br>TEVIAS (71) SGLFD<br>TEVIAS (74) SGLFD<br>AEVIAN (71) SSLFN<br>VEVIAN (72) SSLFH<br>VEVVAN (74) SSLFD  
   
   | FINNER EREE 1<br>FIRFNCHAVRIRG<br>FIRFVCRHAVRIRG<br>FILFLVRSHVIRIGG<br>FILFLRBSVVKIGD  | MOTI<br>EEEE HHHH<br>SYVQ (9) LSTL<br>SYVQ (9) LSTL<br>SYIQ (9) LSTL<br>SYIQ (9) LSTL<br>CYTQ (9) LSTL   
  | F B'> <<br>HHHHHHHHHHHH<br>LCSLCYCDMENKLF(6) G<br>LCSLCYCDMENKLF(6) G<br>LCSPCYCDMENKLF(6) G<br>LCSLCYCDMENKLF(6) G<br>LCSLCYCDMENKLF(6) G   
   | MOTIF C-<br>EEREER REE<br>LLRIVDDFLI<br>LLRIVDDFLI<br>/LLRIVDDFLI<br>LLRIVDDFLI   
   |   | DEE<br>GCVVNLRRTV<br>GCVVNLRRTV<br>GCQVNLRRTV<br>GCRANLCRTA   | > <> <<br>EEE EEREERE<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL  | MOTIF E-><br>EEE EEEEEEE<br>LLDTRTLEVOSD (2<br>LLDTRTLEVHGD (2<br>LLDTRTLEVHGD (2<br>LLDTCTLEVFGD (2  | 20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:   
   |
|       |   | 119628571 H<br>114598861 P<br>114053049 B<br>72255555 C<br>6678291 M<br>55741827 P   | <pre>CHOTEF I=&gt;CHOTEF I=&gt;CHOTEF I=&gt;CHOTEF EEEEE s &gt;&gt; SRLRFIPKPDGLRPIVN t &gt;&gt; SRLRFIPKPDGLRPIVN t &gt;&gt; SRLRFIPKPSGLRPIVN t &gt;&gt; SRLRFIPKPSGLRPIVN m &gt;&gt; CRLRFIPKPNGLRPIVN m &gt;&gt; CRLRFIPKPNGLRPIVN</pre>  
   | HARHARABARABAR<br>(22) LTSRVKALFSVLNYERA (*<br>(22) LTSRVKALFSVLNYERA (*<br>(22) LTSRVKALFSVLNYERA (*<br>(22) LTSQLKTLFSVLNYERA (*<br>(22) LTSQLKTLFSVLNYERA (*<br>(22) LTSQLKTLFSVLNYERT (*   | HHHHHHHHHH<br>) I HRAWRTFVLRV (8)<br>) IHRAWRTFVLRV (8)<br>) IHRAWRTFVLRI (8)<br>) IHRAWRTFVLRI (8)<br>) ITRAWRTFVLRI (8)<br>) IYRTWRAFVLRV (8)<br>(8)<br>(8)<br>(8)<br>(8)<br>(8)<br>(8)<br>(8)       
   
  | <motif a=""><br/>EEEEE HHH<br/>LYFV&amp;VVTGAYDTIPQDR<br/>LYFV&amp;VVTGAYDTIPQDR<br/>LYFV&amp;VVVGAYDALPQDR<br/>LYFV&amp;VVTGAYDALPQDR<br/>LYFV&amp;VVTGAYDALPQDR<br/>MYFV&amp;VVTGAYDALPQDR</motif>   | HHHHHH HHHHH<br>TEVIAS (71) SGLFO<br>TEVIAS (74) SGLFO<br>AEVIAN (71) SSLFN<br>VEVIAN (72) SSLFH<br>VEVVAN (74) SSLFO<br>VEVVAN (74) SSLFO  
   
  | HHHHHH EEEE I<br>VFLRFMCHHAVRIRGI<br>VFLRFVCRHAVRIRGI<br>LFLHLVRSHVIRIGGI<br>FFLHFLRHSVVKIGGI<br>201 FFURHSVVKIGGI   | MOTI<br>EEEE HHHH<br>SYVQ (9) LSTL<br>SYVQ (9) LSTL<br>SYIQ (9) LSTL<br>CYTQ (9) LSTL<br>CYTQ (9) LSTL  
   | FB'> <<br>KHRHHHHHHHHHH<br>LCSLCYGDMENKLF(6)G<br>LCSLCYGDMENKLF(6)G<br>LCSLCYGDMENKLF(6)G<br>LCSLCYGDMERKLF(6)G<br>LCSLCFCDMENKLF(6)G   
  | MOTIF C-<br>EEREEE REE<br>JLLRLVDDFLL<br>JLLRLVDDFLL<br>JLLRLVDDFLL<br>JLLRFVDDFLL<br>JLLRFVDDFLL  
  |   | DEE<br>GCVVNLRRTV<br>GCVVNLRRTV<br>GCQVNLRRTV<br>GCRANLQRTA<br>GCMINLQRTV   | > <-<br>EEE EEEEEEE<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL<br>VNF (18) GLFPWCGL  | MOTIF E-><br>EEE EEEEEEE<br>LLDTRTLEVOSD (2<br>LLDTRTLEVOSD (2<br>LLDTRTLEVSCD (2<br>LLDTRTLEVSCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2   
   | 20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:   |
|       |   | 119628571 H<br>114598861 P<br>114053049 B<br>72255555 C<br>6678291 M<br>55741827 R   | <pre>CHOILD INC.MOTH INC.MOTH<br/>EEEEEEE EEEEE<br/>S &gt;&gt; SKLRIPERPICARPIW<br/>t &gt;&gt; SKLRIPERPICARPIW<br/>t &gt;&gt; SKLRIPERPIGARPIW<br/>t &gt;&gt; CRLRIPERDARPIW<br/>c crlRIPERDARPIW<br/>c &gt;&gt; CRLRIPERLIGARPIW</pre>  
   | HEHHHHHHHHHHHHHHH<br>(22) LTSRWKALFSVLNYERA (*<br>(22) LTSRWKALFSVLNYERA (*<br>(22) LSSRWKTFAVLNYERA (*<br>(22) TSOLKTFSVLNYERA (*<br>(22) FTOSLKTFSVLNYERT (*<br>(22) FTOSLKTFSVLNYERT (*<br>(22) FTOSLKTFSVLNYERT (*   | HHHHHHHHHH<br>7) IHRAWRTFVLRV (8)<br>7) IHRAWRTFVLRV (8)<br>7) IHRAWRTFVLRU (8)<br>7) IHRAWRTFVLRI (8)<br>7) IHRAWRTFVLRI (8)<br>7) IYRTWRAFVLRV (8)<br>7) SYRIWRTFVLRU (8)<br>7) SYRIWRTFVLRU (8)     
   
  | <motif a=""><br/>EEEEEE HHHI<br/>LYFVKUDVTGAYDTIPORI<br/>LYFVKUDVGAYDALPORI<br/>LYFVKUDVTGAYDALPORI<br/>NYFVKUDVTGAYDALPORI<br/>NYFVKUDVTGAYDALPORI<br/>NYFVKUDVTGAYDALPORI</motif>  | HHHHH HHHH<br>TEVIAS (71) SGLFD<br>TEVIAS (74) SGLFD<br>AEVIAN (71) SSLFN<br>VEVIAN (72) SSLFN<br>VEVVAN (74) SSLFN<br>VEVVAN (74) SSLH<br>VEVVAN (74) SSLH   
   
  | HHHHH EEEEE 1<br>/ELRFMCHHAVRIRG<br>/FLRFVCHHAVRIRG<br>/FLHLVRSHVIRIGG<br>/FLRFVRHSVVKIGD<br>/FLRFVRHSVVKIGD   | MOTI<br>EEEE HHHH<br>SYVQ (9) LSTL<br>SYVQ (9) LSTL<br>SYIQ (9) LSTL<br>CYTQ (9) LSTL<br>FYVQ (9) LSTL<br>FYVQ (9) LSTL   
   | F B'><br>HHHHHHHHHHHH<br>LCSLCYGDMENKLF(6)G<br>LCSLCYGDMENKLF(6)G<br>LCSLCYGDMENKLF(6)G<br>LCSLCFCDMENKLF(6)G<br>LCSLCFCDMENKLF(6)G<br>LCSLCFCDMENKLF(6)G   
  | MOTIF C-<br>SEEEEE EEE<br>LLRIVOD FLL<br>/LLRIVOD FLL<br>/LLRIVOD FLL<br>LLRFVOD FLL<br>LLRFVOD FLL<br>LLRFVOD FLL   
  |   | DEE<br>GOVNLRRTV<br>GOVNLRTV<br>GOALLRTV<br>GOALLQTA<br>GOALLQTV<br>GOALLQTV  | > <-> <-<br>EEE EEEEEEE<br>WNF (18) GLFPWGGL<br>WNF (18) GLFPWGGL<br>WNF (18) GLFPWGGL<br>WNF (18) GLFPWGGL<br>WNF (18) GLFPWGGL<br>WNF (18) GLFPWGGL<br>WNF (18) GLFPWGGL   | MOTIF E-><br>EEE EEEEEEE<br>LLDTRTLEVOSD (2<br>LLDTRTLEVOSD (2<br>LLDTRTLEVFOC) (2<br>LLDTRTLEVFOC) (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2)  
   | 20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:   |
|       |   | 119628571 H.<br>114598861 P.<br>114053049 B.<br>72255555 C.<br>6678291 Mr<br>55741827 R.<br>6572640 M.   | CHOTH INCOMENTS<br>SERVICE SERVER<br>S >> SRLRVIPKPOGLPIVN<br>t >> SRLRVIPKOGLPIVN<br>t >> SRLRVIPKOGLPIVN<br>CRLRVIPKPOGLPIVN<br>>> CRLRVIPKPOGLPIVN<br>>> CRLRVIPKPOGLPIVN<br>>> CRLRVIPKPOGLPIVN<br>>> CRLRVIPKPOGLPIVN<br>>> CRLRVIPKPOGLPIVN   
   | HHHHHHHHHHHHH<br>(22) LTGRVKADFSVLNYERA(<br>(22) LTGRVKADFSVLNYERA(<br>(22) LTGRVKADFSVLNYERA(<br>(22) LTGQLKTDFSVLNYERA(<br>(22) FTOGLKTDFSVLNYERT(<br>(21) FTOGLKTDFSVLNYERT(<br>(21) FTOGLKTDFSVLNYERT(   | HHHHHHHHHH<br>1) IHRAWRTFVLRV (8)<br>7) IHRAWRTFVLRV (8)<br>7) IHRAWRTFVLRU (8)<br>7) IHRAWRTFVLRU (8)<br>7) IHRAWRTFVLRU (8)<br>7) SYRIWRTFVLRV (8)<br>7) SYRIWRTFVLRV (8)<br>7) SYRIWRTFVLRV (8)     
   
  | <wottp a=""><br/>REFERE HHH<br/>LYFVKUD VTGAYDT I PODR<br/>LYFVKUD VTGAYDT I PODR<br/>LYFVKUD VTGAYDAL PODR<br/>NYFVKUD VTGAYDAL PODR<br/>NYFVKUD VTGAYDAL PODR<br/>NYFVKUD VTGAYDAL PODR</wottp>  | HHHHHH HHHHH<br>TEVIAS (71) SGLFD<br>TEVIAS (74) SGLFD<br>AEVIAN (71) SSLFN<br>VEVIAN (74) SSLFN<br>VEVVAN (74) SSLFD<br>VEVVAN (74) SSLED<br>VEVVAN (74) SSLED   
   
  | HHHHHH EEEEE 1<br>/FLRFWCHHAVRTRG<br>/FLRFWCHHAVRTRG<br>/FLHLWSHVIRTGG<br>/FLHLWSHVKTGG<br>/FLRFWRSVVKTGG<br>/FLRFWRSVVKTGG<br>/FLRFWRSVVKTGG  | MOTI<br>EEEE HHHH<br>SYVQ (9) LSTL<br>SYVQ (9) LSTL<br>SYIQ (9) LSTL<br>SYIQ (9) LSTL<br>CYTQ (9) LSTL<br>CYVQ (9) LSTL<br>CYVQ (9) LSTL  
   | F B'> <<br>HHHHHHHHHHHH<br>LCSLCYCCMENKLF (6) G<br>LCSLCYCCMENKLF (6) G<br>LCSLCYCCMENKLF (6) G<br>LCSLCFCCMENKLF (6) G<br>LCSLCFCCMENKLF (6) G<br>LCSLCFCCMENKLF (6) G<br>LCSLCFCCMENKLF (6) G   
  | MOTIF C-<br>SEREE ERE<br>LLERIVODFLI<br>VLERIVODFLI<br>VLERIVODFLI<br>LLERVODFLI<br>LLERVODFLI<br>LLERVODFLI   
  | >   | D<br>GCVVNLRKTV<br>GCVVNLRKTV<br>GCQVNLRKTV<br>GCRANLQKTV<br>GCMINLQKTV<br>GCMINLQKTV   | > <-<br>REE EREEEEE<br>WNF (18) GLFPWCGL<br>WNF (18) GLFPWCGL<br>WNF (18) GLFPWCGL<br>WNF (18) GLFPWCGL<br>WNF (18) GLFPWCGL<br>WNF (18) GLFPWCGL<br>WNF (18) GLFPWCGL   | MOTIF E-><br>LLDTRTLEVOSD (2<br>LLDTRTLEVOSD (2<br>LLDTRTLEVOSD (2<br>LLDTRTLEVSCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2)  
   | 20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:   |
|       |   | 119628571 H<br>114598861 P<br>114053049 B<br>72255555 C<br>6678291 M<br>55741827 R<br>6572640 M<br>126320879 M   | C-BUTIF 1-X-NDII<br>EEEEEEEEEEEEEEEEEEEEEE<br>> SRLRTIREPOLRETWU<br>t >> SRLRTIREPOLRETWU<br>t >> SRLRTUREPOLRETWU<br>m >> CRLRTIRESCLRTIWU<br>m >> CRLRTIRESCLRTIWU<br>m >> CRLRTIRESCLRFIWU<br>d >> SRLRTURESCLRFIWU  
   | HHHHHHHHHHHHHHH<br>(22) LITSRVALPSVLNYERA (<br>(22) LISSRVALPSVLNYERA (<br>(22) LISSRVALPSVLNYERA (<br>(22) FINGLAND FAVLNYERA (<br>(22) FINGLAND FAVLNYERT (<br>(22) FINGLAND FSVLNYERT (<br>(21) FINGLAND FSVLNYERT (  | HHHHHHHHHH<br>7) IHRAWRTFVLRV (8)<br>7) IHRAWRTFVLRV (8)<br>7) IHRAWRTFVLRI (8)<br>7) IHRAWRTFVLRI (8)<br>7) IYRTWRAFVLRV (8)<br>7) SYRIWRTFVLRV (8)<br>7) IYRTWRFVLRV (8)<br>7) IYRTWRFVLRV (8)<br>7)
IYRTWRFVLRV (9)  
   | <wottp a=""><br/>REFERE HHH<br/>YFY KVDVTGAYDT PODR<br/>LYFY KVDVTGAYDALPODK<br/>LYFY KVDVTGAYDALPODK<br/>YFY KDVTGAYDALPODK<br/>YFY KDVTGAYDALPODK<br/>YFY KDVTGAYDALPODK<br/>YFY KDVTGAYDALPODK</wottp>  | HHHHH         HHHH           TEVIAS (71) SCLFD           TEVIAS (74) SCLFD           AEVIAN (71) SSLFN           VEVIAN (72) SSLFN           VEVIAN (74) SSLFD   
   
   | THENHEN EEEEE J<br>FELRFMCHAWRING<br>FELRFWCHAWRING<br>FELRLWINNUWRIGG<br>FELRFWNHUWRIG<br>FELFFWRHSVWKIG<br>FELFFWRHSVWKIG<br>FELRFWRHSVWKIG<br>FELRFWRHSVWKIG<br>FELRFWRHSVWKIG<br>FELRFWRHSVWKIG<br>FELRFWRHSVWKIG<br>FELRFWRHSVWKIG<br>FELRFWRH  | MOTI<br>EEEE HHHH<br>SYV0 (9) LSTL<br>SY10 (9) LSTL<br>SY10 (9) LSTL<br>CYT0 (9) LSTL<br>CYT0 (9) LSTL<br>CYV0 (9) LSTL<br>CYV0 (9) LSTL<br>YYV0 (9) LSTL  
  | F B'> <<br>HHHHHHHHHHHH<br>LLSLCYGDMENKLF(6)G<br>LLSLCYGDMENKLF(6)G<br>LLSLCYGDMENKLF(6)G<br>LLSLCFGDMENKLF(6)G<br>LLSLCFGDMENKLF(6)G<br>LLSLCFGDMENKLF(6)G<br>LLSLCFGDMENKLF(6)G<br>LSLCYGNMENKLL(6)G   
   | MOTIF C-<br>SEERER REF<br>LLIRIVODFLI<br>VLIRIVODFLI<br>VLIRIVODFLI<br>LLIRFVODFLI<br>LLIRFVODFLI<br>LLIRFVODFLI<br>LLIRFVODFLI   
   |   | DEE<br>GCVVNLRKTV<br>GCQVNLRKTV<br>GCQNLLRKTV<br>GCMINLQKTV<br>GCMINLQKTV<br>GCMINLQKTV<br>GCMINLQKTV<br>GCUINPKKTV   | > <> <>  | MOTIF E-><br>EEE EEEEEEE<br>LLDTRTLEVOSD (2<br>LLDTRTLEVOSD (2<br>LLDTRTLEVSCD (2<br>LLDTRTLEVSCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2   
  | 20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:   |
|       |   | 119628571 H<br>114598861 P<br>114053049 B<br>72255555 C<br>6678291 Ma<br>55741827 R<br>6572640 M<br>126320879 M<br>71896531 G  | CRUPT LANDOW  
   | 22 HHENHENHENHENHENE<br>HHENHENHENHENHENE<br>(22) LITSRVAC FSUDVYERA (<br>(22) LITSRVAC FSUDVYERA (<br>(22) LITSRVAC FSUDVYERA (<br>(22) FTORLACT FSULVYERA (<br>(22) FTORLACT FSULVYERA (<br>(22) FTORLACT FSULVYERT (<br>(25) FTORLACT FSULVYERT (<br>(25) YNTOLAN FSUDVYERT (   | HHHHHHHHHHH<br>) IHRAWRTFVLRV (8)<br>)) IHRAWRTFVLRV (8)<br>)) IHRAWRTFVLRV (8)<br>)) IHRAWRTFVLRV (8)<br>)) IHRAWRTFVLRV (8)<br>)) SYRINRTFVLRV (8)<br>)) IYRTWRTFVLRV (9)<br>)) IYRCWRFFVLRV (9)<br>)
IYRCWRFFVLRV (9)<br>IYRCWRFFVLRV (   
  | CMOTTF A><br>BEEEEEE BHHL<br>LYPY GUD TGAYDT PODR<br>LYPY GUD TGAYDT PODR<br>LYPY GUD TGAYDALPODR<br>LYPY GUD TGAYDALPODR<br>WYPY GUD TGAYDALPODR<br>WYPY GUD TGAYDALPODR<br>YYPY GUT YYPY GUD TGAYDALPODR<br>YYPY GUT YYPY GUD TGAYDALPODR<br>YYPY GUT YYPY GUT YYPY GUD TGAYDALPODR<br>YYPY GUT YYPY YYPY GUT YYPY YYPY GUT YYPY GUT YYPY GUT YYPY GUT YYPY YYPY GUT YYPY YYPY YYPY GUT YYPY YYPY YYPY YYPY YYPY YYPY YYPY YY   | HHHHH         HHHH           TEVIAS (71) SGLFD           TEVIAS (71) SGLFD           AEVIAN (71) SSLFH           VEVIAN (72) SSLFH           VEVIAN (74) SSLFH           VEVAN (74) SSLFH  
   | THENHEN ELEEE 1<br>FELRFWCHAWRING<br>FELRFWCHAWRING<br>FELRFWHNYWRIGG<br>FELRFWHNYWRIGG<br>FELRFWHNSWKIGG<br>FELRFWRNSWKIGG<br>FFLRFWRNSWKIGG<br>FFLLFINNILKIKIG<br>FELLFWNNILKIGG<br>FELLFWNNILKIGG  
  | MOTI<br>EEEE HHHH<br>SYVQ (9) LSTL<br>SYVQ (9) LSTL<br>SYIQ (9) LSTL<br>CYTQ (9) LSTL<br>FYVQ (9) LSTL<br>CYVQ (9) LSTL<br>YYVQ (9) LSTL<br>YYVQ (9) LSTL  
  | IF B'> <<br>HHHHHHHHHHHHHH<br>LLSLCYGMENKLF(6)G<br>LLSLCYGMENKLF(6)G<br>LLSLCYGMENKLF(6)G<br>LLSLCYGMENKLF(6)G<br>LLSLCYGMENKLF(6)G<br>LLSLCYGMENKLF(6)G<br>LLSLCYGMENKLL(6)G  
   | MOTIF C-<br>SEREE REE<br>SLLRIVODFLI<br>VLLRIVODFLI<br>VLLRIVODFLI<br>LLRFVODFLI<br>LLLRFVODFLI<br>LLLRFVODFLI<br>LLIRIODFLI<br>VLIRLIODFLI   |   
   | D<br>COVVNLRKTV<br>COVVNLRKTV<br>COVNLRKTV<br>CORANLOKTV<br>COMINLOKTV<br>COMINLOKTV<br>COMINLOKTV<br>COMINLOKTV<br>COMINLOKTV  | > <> <<br>EEE EEEEEEE<br>WNF (18) GLFPWOGL<br>WNF (18) GLFPWOGL<br>WNF (18) CLFPWOGL<br>WNF (18) GLFPWOGL<br>WNF (18) GLFPWOGL<br>WNF (18) GLFPWOGL<br>WNF (18) GLFPWOGL<br>WNF (18) GLFPWOGL<br>WNF (17) RLISWOGL   | MOTIF E-><br>ERE EREERE<br>LLDTRTLEVOSD (2<br>LLDTRTLEVOSD (2<br>LLDTRTLEVSCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTTLEVFCD (2<br>LLDTRTLEVFCD (2<br>LLDTRTLEVFCD (2   | 20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:   |
| DT    | R   | 119628571 H<br>114598861 P<br>114053049 B<br>72255555 M<br>6678291 M<br>6572640 M<br>126320879 M<br>71896531 M<br>71896531 C   | CHUITE         CHUITE<  
  | HHANNANNANNANNANNANNANNANNANNANNANNANNAN   | HHHHHHHHHHH<br>7) IHRAWRTFVLRV (8)<br>7) IHRAWRTFVLRV (8)<br>7) IHRAWRTFVLRI (8)<br>7) IHRAWRTFVLRI (8)<br>7) SYRTWRTFVLRV (8)<br>7) SYRTWRTFVLRV (8)<br>7) IYRKWRTFVLRV (9)<br>7) IYRKWRTFVLRV (9)<br>7) IYRKWRTFVKV (9)<br>7) IYRKWRTFVLRU (9)<br>7) IYRKWRTFVRU (9)<br>7) IYRKYRTFVRU (9)<br>7) IYRKYRTFVRU (9)<br>7) IYRKYRTFVRU (9)<br>7)  
  | <wott a="" p=""> EEEEEE EHHT UYYU CUUTCAYUTI FOORI UYYU CUUTCAYUTI FOORI UYYU CUUTCAYUTI FOORI UYYU CUUTCAYUTA POORI PYYU CUUTCAYUT PHEKE PYYU CUUSAAPUT PHEKE PYYU CUUSAAPUT PHEKE</wott>   
   | HHHHH         HHHH           TEVIAS (71) SGLFO           TEVIAS (74) SGLFO           AEVIAN (74) SGLFO           VEVIAN (72) SSLFN           VEVIAN (74) SSLFO  
  | HHHHH EEEE
)<br>FERROCHHAVRIRG<br>FERROCHHAVRIRG<br>FERROCHHAVRIRG<br>FERROCHHAVRIRG<br>FERROCHHAVRIGG<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FERROCH<br>FEROCH<br>FERROCH<br>FERROCH | MOTI<br>EEEE HHHH<br>SYVO (9) LSTL<br>SYVO (9) LSTL<br>SYIO (9) LSTL<br>CYVO (9) LSTL<br>CYVO (9) LSTL<br>CYVO (9) LSTL<br>YYVO (9) LSTL<br>YYIO (9) LSTL<br>YYIO (9) LSTL   
  | (F B'> <<br>KINHHAHMANHANNA<br>LUSLOYGDMENKLF(6)<br>LUSLOYGDMENKLF(6)<br>LUSLOYGDMENKLF(6)<br>LUSLOYGDMENKLF(6)<br>LUSLOFGDMENKLF(6)<br>LUSLOYGDMENKLF(6)<br>LUSLOYGDMENKLF(6)<br>LUSLOYGDMENKLF(6)  
   | MOTIF C-<br>SEREE REE<br>LLIRIVODFLL<br>VLIRIVODFLL<br>VLIRIVODFLL<br>LLIRFVODFLL<br>LLIRFVODFLL<br>LLIRFVODFLL<br>ULIRIODFLL<br>VLIRLIDDFLL  | > <>   WOTF F<br>EXAMINING AND A CARL WAY AND A CARL WA   | D<br>GOVNLRKTV<br>GOVNLRKTV<br>GOVNLRKTV<br>GONINLOKTV<br>GOMINLOKTV<br>GOMINLOKTV<br>GOLINPKKTV<br>GPLINAKKTV
   |  | MOTIFE-><br>LEE EFFERE<br>LIDTRTIEVGSD(2<br>LIDTRTIEVGSD(2<br>LIDTRTIEVGCD(2<br>LIDTCTIEVGCD(2<br>LIDTCTIEVGCD(2<br>LIDTCTIEVCD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEVICD(2<br>LIDTCTIEV  | 20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:<br>20) >:   |
| DT    | F   | 119628571 H<br>114598861 P<br>72255555 C<br>6678291 M<br>55741827 M<br>126320879 M<br>71896531 G<br>134254850 X  | CHOIL PARAMETER DESERVICE<br>RELEASE DESERVICE<br>S > RELEAT REPORTANCE<br>C > RELEAT REPORTANCE<br>S > RELEAT REPORTANCE<br>> RELEAT REPORTANCE<br>> RELEAT REPORTANCE<br>> RELEAT REPORTANCE<br>> RELEAT REVORDERING<br>> REVORDE   
  | HHIRINGROUND HIN CONTENT<br>HHIRINGROUND HIN CONTENT<br>(22) LISS NORAL PSVILVERAT (<br>(22) LISS NORT PSVILVERAT (<br>(22) LISS NORT PSVILVERAT (<br>(22) LISS NORT PSVILVERAT (<br>(22) FOOL KET PSVILVERAT (<br>(23) FOOL KET PSVILVERAT (<br>(25) FOOL KET PSVILVERAT (<br>(25) FOOL KET PSVILVERAT (<br>(25) FOOL KET PSVILVERAT (<br>(24) FOOL KET PSVILVERAT (<br>(25) FOOL KET PSVILVERAT (<br>(24) FOOL KET PSVILVERAT (<br>(24) FOOL KET PSVILVERAT (<br>(24) FOOL KET PSVILVERAT (<br>(25) FOOL KET PSVILVERAT (<br>(24) FOOL KET PSVILVERAT (<br>(24) FOOL KET PSVILVERAT (<br>(25) FOOL KET PSVILVERAT (<br>(24) FOOL KET PSVILVERAT (<br>(25) FOOL KET PSVILVERAT (<br>(24) FOOL KET PSVILVERAT (<br>(25) FOOL KET PSVILVERAT (<br>(25) FOOL KET PSVILVERAT (<br>(24) FOOL KET PSVILVERAT (<br>(25) FOOL KET PSVILVERAT (<br>(   | HHHHHHHHH<br>)1    RAARTFVLRW (8)<br>)1    RAARTFVLRW (8)<br>)1    RAARTFVLRW (8)<br>)1    RAWRTFVLRW (8)<br>)1    RWRRFVLRW (8)<br>)1    RWRRFVLRW (8)<br>)1    RWRRFVLRW (9)<br>)1    KKKKRFVKKW (9)<br>)1    KKKKRFVKKW (9)<br>)1    KKKKRFVKKW (9)<br>)1    KKKKRFVLRW (8)  
   | <wattp a=""><br/>BEEREE E BHAT<br/>LYPY &amp; O'TCAYET'POPRI<br/>LYPY &amp; O'TCAYET'POPRI<br/>LYPY &amp; O'TCAYET'POPRI<br/>LYPY &amp; O'TCAYET'POPRI<br/>KYPY &amp; O'TCAYET'POPRI<br/>KYPY &amp; O'TCAYET'POPRI<br/>LYPY &amp; O'TCAYET'PHEK<br/>LYPY &amp; O'SCAYET'PHEK<br/>LYPY &amp; O'SCAYET'PHEK</wattp>   
  | HERMEN         HERMEN           TEV TAS (71) SGEED           TEV TAS (74) SGEED           TEV TAS (74) SGEED           AEV TAN (71) SSEEN           VEV TAN (74) SSEED           VEV TAN (74) SSEED <th>HHHHH EREE 1<br/>YELRENCHHAVR RGI<br/>YELREVCHAVR RGI<br/>ERELLVRSHVIR GGI<br/>FELHEVRSHVIR GGI<br/>FELREVRSVVK GGI<br/>FELREVRSVK GGI<br/>FELREVRSVK<br/>FELREVRSVK GGI<br/>FELREVRSVK GGI<br/>FELREV</th> <th>MOTI<br/>SYVQ (9) L3TL<br/>SYVQ (9) L3TL<br/>SYIQ (9) LSTL<br/>CYTQ (9) LSTL<br/>CYTQ (9) LSTL<br/>CYTQ (9) LSTL<br/>CYVQ (9) LSTL<br/>YYVQ (9) LSTL<br/>YYLQ (9) LSTL<br/>YYLQ (9) LSTL<br/>YYLQ (9) LSTL<br/>YYQQ (9) LSTL</th> <th><pre>/F B'&gt; &lt;<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G</pre></th> <th>MOTIF C-<br/>SEREE ERE<br/>SLERVODFLI<br/>ALLRVODFLI<br/>ALLRVODFLI<br/>ULLRVODFLI<br/>LLRFVODFLI<br/>LLRFVODFLI<br/>LLRFVODFLI<br/>LLRFVODFLI<br/>ALRLIODFLI<br/>ALRLIODFLI<br/>ALRLIODFLI</th> <th>&gt; &lt;&gt; &lt;&gt; WOTF F<br/>EXEMPTION NUMBER OF A STATE<br/>WITHOUT AND A DEAT WROUPES<br/>WITHOUT AND ALEXT WROUPES<br/>WITH ALEXT WROUPES<br/>WROUPES<br/>WROUPES<br/>WROUP ALEXT WROUPS<br/>WROUP ALEXT WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>WROUPS<br/>W</th> <th>D</th> <th></th> <th>MOTIF E-&gt;<br/>LLDTRTLEVGSD (2<br/>LLDTRTLEVGSD (2<br/>LLDTRTLEVGSD (2<br/>LLDTRTLEVGD) (2<br/>LLDTRTLEVGD (2<br/>LLDTRTLEVCD (2<br/>LLDTGTLEVFCD (</th> <th>20) &gt;:<br/>20) &gt;:</th>   
   | HHHHH EREE 1<br>YELRENCHHAVR RGI<br>YELREVCHAVR RGI<br>ERELLVRSHVIR GGI<br>FELHEVRSHVIR GGI<br>FELREVRSVVK GGI<br>FELREVRSVK GGI<br>FELREVRSVK<br>FELREVRSVK GGI<br>FELREVRSVK GGI<br>FELREV                                      | MOTI<br>SYVQ (9) L3TL<br>SYVQ (9) L3TL<br>SYIQ (9) LSTL<br>CYTQ (9) LSTL<br>CYTQ (9) LSTL<br>CYTQ (9) LSTL<br>CYVQ (9) LSTL<br>YYVQ (9) LSTL<br>YYLQ (9) LSTL<br>YYLQ (9) LSTL<br>YYLQ (9) LSTL<br>YYQQ (9) LSTL  
   | <pre>/F B'&gt; &lt;<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G<br/>LLSLUYCMERKLF(6)G</pre>   
  | MOTIF C-<br>SEREE ERE<br>SLERVODFLI<br>ALLRVODFLI<br>ALLRVODFLI<br>ULLRVODFLI<br>LLRFVODFLI<br>LLRFVODFLI<br>LLRFVODFLI<br>LLRFVODFLI<br>ALRLIODFLI<br>ALRLIODFLI<br>ALRLIODFLI   | > <> <> WOTF F<br>EXEMPTION NUMBER OF A STATE<br>WITHOUT AND A DEAT WROUPES<br>WITHOUT AND ALEXT WROUPES<br>WITH ALEXT WROUPES<br>WROUPES<br>WROUPES<br>WROUP ALEXT WROUPS<br>WROUP ALEXT WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>WROUPS<br>W   | D  
  |  | MOTIF E-><br>LLDTRTLEVGSD (2<br>LLDTRTLEVGSD (2<br>LLDTRTLEVGSD (2<br>LLDTRTLEVGD) (2<br>LLDTRTLEVGD (2<br>LLDTRTLEVCD (2<br>LLDTGTLEVFCD (  | 20) >:<br>20) >:   |
| DT    | F   | 119628571 H<br>114053049 B<br>12255555 C<br>6678291 M<br>126320879 M<br>126320879 M<br>126320879 M<br>126320879 M<br>134254850 C<br>213623930 X<br>213623930 X   | CHOIL 1-2- MOIL     EXERCISE DEDEE     SOLET MEDICATION   
   | HARHMANNENHHANNEN<br>HARHMANNENHHANNEN<br>(22) LISKNAR POVINYERA<br>(22) LISKNAR POVINYERA<br>(22) LISKNAR POVINYERA<br>(22) LISKNAR<br>POVINYERA<br>(22) LISKNAR<br>POVINYERA<br>(22) FORLAR<br>POVINYERA<br>(23) FORLAR<br>POVINYERA<br>(23) FORLAR<br>POVINYERA<br>(23) FORLAR<br>POVINYERA<br>(25) FORLAR<br>POVINYERA<br>(26) FORLAR<br>(26) FO         | MHHHHHHHH<br>HHHHHHHHHH<br>)) IFRANGTFULRY(8)<br>)) IFRANGTFULRY(8)<br>)) IFRANGTFULRY(8)<br>)) IFRANGTFULRY(8)<br>)) STRINGTFULRY(8)<br>))  
  | <wott a="" p=""><br/>BEEELES BHAN<br/>LTTP &amp; O TCANET FROM<br/>LTTP &amp; O TCANET FROM<br/>LTTP &amp; O TCANET FROM<br/>LTTP &amp; O TCANET FROM<br/>LTTP &amp; O TCANET PARAMENT<br/>NET &amp; O TCANET PARAMENT<br/>NET &amp; O TCANET PARAMENT<br/>NET &amp; O TCANET PARAMENT<br/>PET &amp; O TCANET<br/>PET &amp; O TCA</wott> | HERMEN         HERMEN           TEV TAS (71) SGEPD         ASC TAN (71) SSEPN           VEW TAN (72) SSEPN         VEW TAN (74) SSEPN           VEW TAN (74) SSEPN         VEW TAN (  
   
  | HHHHHH ERRER J<br>FELREWCHAWR RGJ<br>FELREWCRHWR RGJ<br>FELREWRSWIR RGJ<br>FELREWRSWIR CGJ<br>FELREWRSWIR CGJ<br>FELREWRSWIR CGJ<br>FELREWRSWIR CGJ<br>FELREWRSWIR CGJ<br>FELREWRSWIR LEFER<br>FELMENNIL REFER<br>FELMENNIL REFER<br>FELMENNIL REFER<br>FELMENNIL REFER<br>FELMENNIL   |   
   | <pre>F B'&gt; &lt;<br/>KHNHHHHHHHHHHH<br/>LJSLOYGDMENKLF(6)G<br/>LJSLOYGDMENKLF(6)G<br/>LJSLOYGDMENKLF(6)G<br/>LJSLOFGDMENKLF(6)G<br/>LJSLOFGDMENKLF(6)G<br/>LJSLOFGDMENKLF(6)G<br/>LJSLOYGDMENKLL(6)G<br/>LJSLOYGDMENKLF(6)G<br/>LJSLOYGDMENKLF(6)G<br/>LJSLOYGDMENKLF(6)G<br/>LJSLOYGDMENKLF(6)G<br/>LJSLOYGDMENKLF(6)G</pre>   
   
  | MOTIF C-<br>SEEEE RE<br>JLRLVDDFIL<br>JLRLVDDFIL<br>JLRLVDDFIL<br>JLRVDDFIL<br>LLRVDDFIL<br>JLRVDDFIL<br>JLRLDDFIL<br>JIRLDDFIL<br>JLRLDDFIL<br>JMRLDDFIL   | > CONTERNIE MOTTER<br>BINNAMEMBERGINE<br>VERLINKAT LET VROVES<br>VERLINKAT LET VROVES<br>VERLINKAT LET VROVES<br>VERLINGAT LET VROVES<br>VERLINGAT LET VROVES<br>VERLINGAT LET VROVES<br>VERLINGAT LET VROVES<br>VERLINGAT LET ARGIES<br>VERLINGAT LET ARGIES<br>VERLINGAT LET ARGIES<br>VERLINGAT LET ARGIES<br>VERLINGAT LET ARGIES<br>VERLINGAT LET ANGESTON<br>VERLINGAT LET ANGESTON   | D<br>CCVVNLRG TV<br>CCVVNLRG TV<br>CCVVNLRG TV<br>CCVNLRG TV<br>CCCVNLRG TV<br>CCCNLLCG TV<br>CCCNLLCG TV<br>CCLLNPK TV<br>CCLLNPK TV<br>CCLLNPK TV<br>CCLLNPK TV<br>CCLLNPK TV<br>CCLNPK TV<br>CCLVNPC TV<br>CUVNPC TV<br>CUVNCT<br>CUVNCT<br>CUVNPC TV<br>CUVNPC TV  |  | MOTIF E-><br>LEEE FEFEERE<br>LIDTRTIEVGSD (2<br>LIDTRTIEVGSD (2<br>LIDTRTIEVGSD (2<br>LIDTCTEVGOD (2<br>LI  | 20) >:<br>20) >:<br>20 |
| DT    | Ŧ   | 119628571 H:<br>114550861 P:<br>72255555 C:<br>6678291 M:<br>55741827 H:<br>126320879 M:<br>126320879 M:<br>126320879 M:<br>126320879 M:<br>126320879 M:<br>126320870 M:<br>126320870 M:<br>126320870 M:<br>126320870 M:<br>126320870 M:<br>126320870 M:<br>126320 M:<br>12 | CHOIL 1 - 2 - 4001     CONTREL - 2 - 400   
   | 122 -  | MHRHHHHHHHH<br>HHHHHHHHHHH<br>1) HRANRTPURV<br>1) HRANRTPURV<br>1) HRANRTPURV<br>1) HRANRTPURV<br>1) JRANRTPURV<br>1) JRANRTPURH<br>1) JRANRTPURH<br>1) JRANRTPURH<br>1) JSRUH<br>1) JSS<br>1) J   
  | <wottp a=""> EFEREE EINEY SOUTCAYET POPRI- LYPY SOUTCAYET POPRI- LYPY SOUTCAYET POPRI- LYPY SOUTCAYEN POPRI- LYPY SOUTCAYEN POPRI- KYTY SOUTCAYEN PO</wottp>   | HHHHH         HHHHH           TEU TAS (71) SG FD           TEU TAS (74) SG FD           AEV LAN (74) SG FD           AEV LAN (74) SS FD           VEI VAN (74) SS FD           VEI VEI (73) SS FD           VEI VEI (74) SS VKLAN           VEI VEI (75) SF FD           VEI VEI SK (73) SF FD           VEI SE (75) SF FD  
   
  | HHHHH EREE 1<br>YELRENCHHAVR RGG<br>YELRENCHHAVR RGG<br>ELREVCHHAVR RGG<br>ELREVHNUVR GGD<br>FELREVHSVVK GGD<br>FELREVHSVVK GGG<br>FELREVHSVVK LGG<br>FELREVHSVVK LGG<br>FELREVHSVK LGG<br>FELREVHSVVK LGG<br>FELREVHSVVK LGG<br>FELREVHSVVK LGG<br>FELREVHSVVK GGG<br>FELREVHSVVK GGG<br>FELREVHSVK GG<br>FELREVHSVK GG<br>FE   |   
   | F B'  
  | MOTIF C-<br>EFFECE FRE<br>EFFECE FRE<br>EFFECE FRE<br>EFFECE FRE<br>DILREVOD FIL<br>LLREVOD FIL<br>LLREVOD FIL<br>LLREVOD FIL<br>DIRLOD FIL<br>DIRLOD FIL<br>UMRLOD FIL<br>UMRLOD FIL<br>SUMRLOD FIL<br>SUMRLOD FIL<br>SUMRLOD FIL   
  | > CONTEP<br>ENDIFICATION CONTENT<br>INTERLITATE LAT UNDER<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITURATE<br>LAT UNDER<br>UNDELLITURATE<br>LAT UNDER<br>UNDELLITURATE<br>LAT UNDER<br>UNDELLITURATE<br>UNDELLITURATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLITATE<br>UNDELLI   | D<br>GCVVNLRGVV<br>GCVNLRGVV<br>GCVNLRGVV<br>GCONNLCGVV<br>GCCNNLCGVV<br>GCCNNLCGVV<br>GCCLNPKGVV<br>GCLLNPKGVV<br>GCLNPKGVV<br>GCLVNPCGVV  |  | MOTIF E-><br>LLDTRTIEVOSD (2<br>LLDTRTIEVOSD (2<br>LLDTRTIEVOSD (2<br>LLDTRTIEVSCD (2<br>LLDTCTIEVTCD  | 20) >:<br>20) >:   |
| DT    | r   | 119628571 H:<br>114598861 P:<br>114053049 B:<br>72255555 C:<br>6678291 M:<br>6572640 M:<br>126320879 M:<br>126320879 M:<br>134254850 C:<br>134254850 C:<br>134254850 C:<br>134254850 C:<br>134254850 C:<br>134254850 C:<br>134254850 C:<br>13578884 E:<br>157278368 0 C:<br>157278368 0 C:<br>1572784 0 C:<br>15   | CONTRACTOR         CONTRACTOR           >>>         >>>         CONTRACTOR           >>>>         >>>         CONTRACTOR           >>>>>         >>>         CONTRACTOR           >>>>>>>>>         >>>         CONTRACTOR           >>>>>>>>>>>>>>>         >>>>>>>>>>         CONTRACTOR           >>>>>>>>>>>>>>>>>>>>>>>>>>>>   
   | (22) HERE AND  | MHHHHHHHHH<br>HHHHHHHHHH<br>)) IFRANGTYURY (8)<br>)) IFRANGTYURY (8)<br>)) IFRANGTYURY (8)<br>)) IFRANGTYURY (8)<br>)) SYRTHRTYURY (8)<br>))   
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   | HERMEN         HERMEN           TEV TAS (71) SGEPO         ASGEPO           AEV TAN (71) SSEPN         VEV TAN (71) SSEPN           VEV TAN (74) SSEPN         VEV TAN (74) SSEPN           VEV TAN (75) SEPN         VEN TAN (75) SEPN           VEV TAN (75) SEPN         VEN TAN (75) SEPN   
  | HHHHH EREE J<br>FLEPKCHAVR RGJ<br>PLIPKCRIVIR RGJ<br>PLILVRSVIR RGJ<br>PLIVKRVVR GGJ<br>FLEVKRSVVK IGG<br>FLEVRRSVVK IGG<br>FLEVRRSVK IGG<br>FLEVRRSVK IGG<br>FLEVRRSVK IGG<br>FLEVRRSVK IG<br>FLEVRRSVK IG<br>FTELRVR ILF<br>FTELRVR ILF<br>FTOLIKSTIP<br>FTOLIKSTIP<br>FTOLIKSTIP<br>FTOLIKSTIP<br>FTOLIKSTIP  
   |   | P. B'>            L-STAY COMERNER (F)   
   
   | MOTIF C-<br>SEREE REE<br>LLRLVDFLL<br>LLRLVDFLL<br>LLRLVDFLL<br>LLRVDFLL<br>LLRVDFLL<br>LLRVDFLL<br>LLRVDFLL<br>LLRVDFLL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRLDFL<br>LLRL   |   | D-<br>GCVVNLRG TV<br>GCVNLRG TV<br>GCVNLRG TV<br>GCCNNLRG TV<br>GCCNNLCG TV<br>GCCNNLCG TV<br>GCCNNLCG TV<br>GCCNNRG
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| DT    | R   | 119628571 H:<br>114598861 P:<br>114053049 B:<br>72255555 C.<br>6678291 M:<br>55741827 R:<br>6572640 H:<br>71896531 Q:<br>71896531 Q:<br>213623930 X:<br>62004478 T:<br>53778884 A:<br>157273630 0.<br>157273630 0.<br>1572756555<br>1572756555555555555555555555555555555555   | CONTRACTOR         DESCR.           V         OLDET (M PEOGRAPTIN)  
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   |   
  | HHHHH         HHHHH           TEU TAS (71) SG FD0           TEU TAS (74) SG FD0           AE' TAN (71) SG FD0           AE' TAN (71) SS FD1           VES VAN (74) SS LF1           VEV TAN (74) SS TF1           VEV ISQ (73) AS TF1           VEV ISQ (75) AS TF1 <t< th=""><th>HHHHH ECEEC )<br/>FLRPCH-MAR RGG<br/>FLRPCH-MAR RGG<br/>LELHLWRSHVIR GGD<br/>FLRPCH-NSVVK GGD<br/>FLRPKHSVVK GGD<br/>FLRPKHSVVK IGG<br/>FLRPKHSVVK IGG<br/>FLRPKHSVVK IGG<br/>FLRPKHSVVK IGG<br/>FLRPKHSVVK IGG<br/>FLRVHINSVI LEZGH<br/>FLQUILISH LEZGH<br/>FTOLICSVO GKK<br/>FTOMIGSVO GKK<br/>FTOMIGSVO GKK</th><th></th><th>F. B'            L.S.LCVGOWERKLF (6)            L.S.LCVGOWERKLF (7)            L.S.LCVGOWERKLF (7)            L.S.LCVGOWERKLF (7)            L.S.LCVGOWERKF (7)            L.S.LCVGOWERKF (7)            L.S.LCVGOWERKF (7)            L.S.LCVGOWERKF (7)         <t< th=""><th>MOTIF C<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEECE<br/>EFEECE FEECE<br/>EFEECE FEECE<br/>EFEECE FEECE<br/>EFEECE FEECE<br/>EFEECE FEECE<br/>FEECE<br/>EFEECE FEECE<br/>FEECE<br/>EFEECE FEECE<br/>FEECE<br/>FEECE<br/>EFEECE FEECE<br/>FEECE<br/>FEECE<br/>EFEECE FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEEC</th><th>&gt; 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T</th><th></th><th>MOTIFE-&gt;<br/>LIDTRIEVENSD(2)<br/>LIDTRIEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDTRELEVENSD(2)<br/>LIDT</th><th>20) &gt;:<br/>20) &gt;:<br/>20</th></t<></th></t<> | HHHHH ECEEC )<br>FLRPCH-MAR RGG<br>FLRPCH-MAR RGG<br>LELHLWRSHVIR GGD<br>FLRPCH-NSVVK GGD<br>FLRPKHSVVK GGD<br>FLRPKHSVVK IGG<br>FLRPKHSVVK IGG<br>FLRPKHSVVK IGG<br>FLRPKHSVVK IGG<br>FLRPKHSVVK IGG<br>FLRVHINSVI LEZGH<br>FLQUILISH LEZGH<br>FTOLICSVO GKK<br>FTOMIGSVO GKK<br>FTOMIGSVO GKK  |   
   | F. B'            L.S.LCVGOWERKLF (6)            L.S.LCVGOWERKLF (7)            L.S.LCVGOWERKLF (7)            L.S.LCVGOWERKLF (7)            L.S.LCVGOWERKF (7)            L.S.LCVGOWERKF (7)            L.S.LCVGOWERKF (7)            L.S.LCVGOWERKF (7) <t< th=""><th>MOTIF C<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEE<br/>EFEECE FEECE<br/>EFEECE FEECE<br/>EFEECE FEECE<br/>EFEECE FEECE<br/>EFEECE FEECE<br/>EFEECE FEECE<br/>FEECE<br/>EFEECE FEECE<br/>FEECE<br/>EFEECE FEECE<br/>FEECE<br/>FEECE<br/>EFEECE FEECE<br/>FEECE<br/>FEECE<br/>EFEECE FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEECE<br/>FEEC</th><th>&gt; 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   | CALL STATES AND A  | HRIMHAN HRIMH<br>HRIMHAN HRIMH<br>I HRANKTYLR (1)<br>I HRANKTYLR (1)<br>I HRANKTYLR (1)<br>I HRANKTYLR (1)<br>I HRANKTYLR (1)<br>I J KRIKTYLR (1)<br>I KYLR  
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   | HIRHNAN         HANNAH           TEVILAS (1) SGIPD           TEVILAS (1) SGIPD           ABL (AN (1) SGIPD           ABL (AN (1) SGIPD           VEVILAN (2)  
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  | HHHHHH         HHHHHH           TEVTAS (11) SGLD <sup>0</sup> ABUTAN (13) SGLD <sup>0</sup> ABUTAN (13) SGLD <sup>0</sup> ABUTAN (13) SGLD <sup>0</sup> ABUTAN (13) SGLD <sup>0</sup> ABUTAN (14) SGLD <sup>0</sup> ABUTAN (15) SGLD <sup>0</sup>  
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   | MOTIF C-<br>EEEEEE EEEE<br>JLLRIVODFIL<br>JLLRIVODFIL<br>JLLRIVODFIL<br>JLLRIVODFIL<br>JLLRIVODFIL<br>JLLRIVODFIL<br>JLLRIVODFIL<br>JLRIJODFIL<br>JLRIJODFIL<br>JLRIJODFIL<br>JLRIVODFIL<br>JLMRIVODFIL<br>JLMRIVODFIL<br>JLMRIVODFIL<br>JLMRIVODFIL<br>JLMRIVODFIL   | 17.004-<br>2014. Податованных и податованных и<br>податованных и податованных и<br>податования и податования и податования и<br>податования и   | D<br>GCVMLR& TV<br>GCVMLR& TV<br>GCCVMLR& TV<br>GCCVMLR& TV<br>GCCMLLC& TV<br>GCCMLLC& TV<br>GCMLLC& TV<br>GCLLNPK<br>TV<br>GCLLNPK<br>TV<br>GCLNPK<br>TV<br>GUVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>GVVNPC<br>TV<br>TV<br>GVVNPC<br>TV<br>TV<br>TV<br>TV<br>TV<br>TV<br>TV<br>TV<br>TV<br>TV   | > C+-> C+-C+<br>EXE EXERCISE<br>WF (18) CLEPWOLL<br>WF (18) CLEPWOLT<br>WF (18) CLEPWOLT<br>WF (18) CLEPWOLT | MOTTP E-><br>LIEF FEETERE<br>LIEFTERUNGS (2<br>LIEFTERUNGS (2<br>LIEFT  | 20) >:<br>20) >:<br>20 |
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**Fig. 52.** Multiple sequence alignment of human telomerase protein domains with close homologs and selected proteins of known structure. Sequences are labeled with NCBI gene identification numbers or PDB ID codes. Abbreviations of the species names are: Hs, *Homo sapiens*; Pt, *Pan troglodytes*; Bt, *Bos taurus*; Cl, *Canis lupus*; Mm, *Mus musculus*; Rn, *Rattus norvegicus*; Ma, *Mesocricetus auratus*; Md, *Monodelphis domestica*; Gg, *Gallus gallus*; Cm, *Cairina moschata*; Xl, *Xenopus laevis*; Tr, *Takifugu rubripres*; Ec, *Epinephelus coioides*; Ol, *Oryzias latipes*; Om, *Oryzias melastigma*; Nf, *Nothobranchius furzeri*; Dr, *Danio rerio*; Tt, *Tetrahymena thermophila*; Tc, *Tribolium castaneum*. The number of residues not shown in the alignment is designated in parentheses. Residue conservation is denoted with the following scheme: uncharged, highlighted in yellow; charged or polar, highlighted in gray; small, letters in red. Critical acidic and basic active site residues are highlighted in black and blue, respectively. The invariant glutamine Q169 essential for telomerase processivity is highlighted in pink. Locations of predicted secondary structure elements (H,  $\alpha$ -helix; E,  $\beta$ -strand) are labeled above corresponding residue columns. Positions of critical sequence motifs (CP, T, 1, 2, 3, A, B', C, D, E) are marked above respective blocks of the alignment.



**Fig. S3.** Interaction between RT:TRBD domains and RNA:DNA heteroduplex. The TEN domain is not shown for clarity. (*A*) Telomerase active site region. Residues important for catalysis and nucleic acid binding are highlighted in red. TRBD motif T shown to be directly involved in RNA recognition is colored green. (*B*) Cys931 and G932 from RT palm constitute the "primer grip" crucial for proper maintenance of telomeric DNA within active site. (*C*) RT thumb residues R972 and K973 located on an  $\alpha$ -helix that packs into the RNA:DNA minor groove, interact with the DNA backbone and may contribute to repetitive addition processivity. (*D*) The loop preceding the motif 3  $\alpha$ -helix in RT fingers (residues 643–649, colored in red) binds to double helix major groove.



**Fig. S4.** Domain architecture of several telomerase proteins from different species. (A) Telomerases having TEN domains also possess two additional  $\alpha$ -helices (colored in yellow) in the N-terminal region of the TRBD domain (residues 333–371 in *T. thermophila*, PDB ID code 2R4G). (B) The two additional  $\alpha$ -helices form, together with the last TRBD  $\alpha$ -helix (violet), a three-helix bundle that packs tightly against the RT fingers. Consequently, telomerases lacking the TEN domain may have a more elastic interface between TRBD and RT, possibly allowing for some domain movements that might contribute to the enzyme processivity.



**Fig. S5.** Interaction of TEN with remaining components of telomerase complex. Q169 (side chain in red), whose mutation was shown to compromise telomerase processivity, is important for stabilization of the TEN local structure including the N- and C-terminal  $\alpha$ -helices that interact with the major groove of RNA:DNA heteroduplex. The remaining red residues belong to the proposed interface between TEN and RT:TRBD.



Fig. S6. Surface conservation of the TEN domain. Surface conservation generated using ConSurf is denoted in a color gradient from white (variable residues) to red (more conserved residues). Proposed RT: TRBD and RNA: DNA heteroduplex binding sites are marked with ellipses. T116, T117, and S118 were previously shown experimentally to contribute to telomerase activity in vivo but are not essential for activity in vitro.



**Fig. S7.** Structural model for the processivity of human telomerase, shown here for the entire structure (details are shown in Fig. 2 A and B). The ANM model is constructed from one point per amino acid and two points per nucleotide with an interaction cutoff of 13 Å. The rotation of the DNA:RNA heteroduplex is evident. Procession of the heteroduplex is a critical aspect of telomerase function. The telomerase structure from Fig. 1 (same colors) and the effects of following the global mode in the (A) negative (-1) and (B) positive (+1) directions are shown. Termini closest to the viewer are highlighted: the 3' end of RNA in red and the 5' end of DNA in cyan. Dynamics of this slowest global motion can be seen in two views in the Movies S1 and S2.



**Fig. S8.** Schematic representation of the mechanism of telomerase action. The RT active site is represented by a red dot. (*A* and *B*) During the RNA templatebased reverse transcription, new deoxynucleotides are added until the telomeric repeat template (5'-UAACCC-3') in TER is fully complemented by a newly synthesized DNA repeat (5'-GGGTTA-3'). (C) The template-encoding region of TER is realigned, while the 3' end of the telomeric DNA substrate is stabilized by the telomerase protein domains, especially TEN. Note that this schematic representation of the RNA: DNA heteroduplex does not reflect the actual shape of the double-helix, and translocation of the RT active site relative to the template repeat in TER requires both a linear shift and a rotation of the double helix. (*D*) Once the newly synthesized telomeric DNA repeat is properly aligned with the complementary 5'-UAAC-3' sequence immediately adjacent to the repeat template in TER, the reaction cycle is set to begin again.



**Movie S1.** Movie showing the motion of the heteroduplex rotating and translating through the partial telomerase structure, assisted by the motion of the TEN domain, and viewed along the double helix axis. The motion is the first normal mode, and it is shown oscillating between the positive and negative directions. Colors indicate the various domains with TEN in green, TRBD in orange, and RT in blue, and with the RNA in yellow and the DNA in purple. For an orthogonal view see Movie S2.

Movie S1 (MOV)



**Movie S2.** Movie showing the motion of the heteroduplex rotating and translating through the partial telomerase structure, assisted by the motion of the TEN domain, and viewed facing into the double helix axis in a view orthogonal to that in Movie S1. The motion is the first normal mode, and it is shown oscillating between the positive and negative directions. Colors indicate the various domains with TEN in green, TRBD in orange, and RT in blue, and with the RNA in yellow and the DNA in purple. For an orthogonal view see Movie S1. Movie S2 (MOV) Table S1. Summary of experimental evidence for telomerase interdomain interactions and telomerase-RNA:DNA heteroduplex binding interactions used for human telomerase complex assembly

Interaction	Residue	Domain	Evidence
RT-RNA:DNA			Crystallographic structure of <i>T. castaneum</i> RT and TRBD bound to RNA:DNA hairpin (PDB ID code 3KYL) (1)*
	K659	RT	Interacts with DNA primer (K210 in <i>T. castaneum</i> ) (2)
	Y717, V867	RT	Forms hydrophobic pocket adjacent to catalytic aspartic acid residues and could accommodate the base of deoxynucleotide substrates (Y256, V342 in <i>T. castaneum</i> ) (2)
	Q833	RT	Involved in substrate specificity in proximity of active site (Q308 in T. castaneum) (2)
	K902	RT	Essential for telomerase activity; K902 patients display autosomal dominant dyskeratosis congenita, anticipation, and telomere shortening) (3)
RT-TRBD			Crystallographic structure of <i>T. castaneum</i> RT and TRBD bound to RNA:DNA hairpin (PDB ID code 3KYL) (1)*
TRBD-RNA:DNA	K570	TRBD	Interacts with RNA:DNA heteroduplex and is essential for telomerase activity (K570N patients suffer from aplastic anemia) (4)
	Y562, W581	TRBD	Stabilizes RNA template by providing stacking interactions (Y477, W496 in <i>T. thermophila</i> TRBD) (5)
TEN-RNA:DNA	Q169	TEN	Essential for binding of RNA:DNA heteroduplex and repetitive addition processivity (6–9)
	N and C termini	TEN	Disordered/flexible N- and C-terminal tails of <i>T. thermophila</i> TEN domain are essential for interaction with RNA (10)
	L55	TEN	Important for RNA binding: L55Q causes 50% reduction in RNA binding and catalytic activation; L55Q patients suffer from idiopathic pulmonary fibrosis (11)
TEN-RT			TEN domain in <i>T. castaneum</i> is predicted to be 40–60 Å from reverse transcriptase active site (6) <sup>†</sup>
			Distance between W203 in TEN (W187 in <i>T. thermophila</i> TEN) and reverse transcriptase active site is between 17 and 27 Å (12) <sup>†</sup>
TEN-TRBD	T116, T117, S118	TEN	T116A, T117A, and S118A mutations compromise telomere length maintenance in vivo but do not alter DNA binding affinity or activity in vitro; may be involved in TEN–TRBD interaction (9)

\*Relative orientation of respective components of human telomerase complex available for homologs with solved structure.

<sup>†</sup>Predicted distance between domains or residues.

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