Se avete una vecchia versione di *Chime* Potete ricostruire sul vostro PC l'immagine del DNA che vedete sul sito www.bayes.it con questi due semplici passi:
1) copiate e salvate in un file di testo denominato "*dna.pdb*" le coordinate spaziali degli atomi che compongono la molecola (copiare da HEADER a END tutte le righe riportate qui sotto senza apportare modifiche);
2) copiate e salvate in un file di testo denominato "*DNA.htm*" il codice html che consente di avviare la presentazione della molecola in Explorer (copiare da <html> a </html> tutte le righe riportate qui sotto senza apportare modifiche).

A questo punto facendo doppio click sul file "*DNA.htm*" in Explorer comparirà la molecola in 3d. Facendo click su questa con il tasto destro del mouse potete accedere al menù di *Chime* che consente di modificare le modalità di rappresentazione della molecola.

Sui siti di proteomica potete trovare i file pdb che contengono le ricostruzioni 3d di molecole organiche (emoglobina, immunoglobuline, ormoni, enzimi, eccetera). Ovviamente per ogni file pdb dovete realizzare il corrispondente file html: per questo è sufficiente ricopiare il codice html che vi ho fornito e nella riga
`<p><embed src="dna.pdb" align="left" border="0" hspace="15"`
sostituire `"dna.pdb"` con il nome del file pdb appropriato.

Ora che *Chime* non è più supportato sul web potete trovare molti programmi che leggono direttamente i file .pdb e add-on che consentono di gestirli via browser con script html (per i dettagli si rimanda alle specifiche documentazioni).

```
HEADER    DEOXYRIBONUCLEIC ACID                   26-JAN-81   1BNA
TITLE     STRUCTURE OF A B-DNA DODECAMER. CONFORMATION AND DYNAMICS
COMPND    MOL_ID: 1;
COMPND   2 MOLECULE: DNA
COMPND   3 (5'-D(*CP*GP*CP*GP*AP*AP*TP*TP*CP*GP*CP*G)-3');
COMPND   4 CHAIN: A, B;
COMPND   5 ENGINEERED: YES
SOURCE    MOL_ID: 1;
SOURCE   2 SYNTHETIC: YES
KEYWDS    B-DNA, DOUBLE HELIX, DEOXYRIBONUCLEIC ACID
EXPDTA    X-RAY DIFFRACTION
AUTHOR    H.R.DREW,R.M.WING,T.TAKANO,C.BROKA,S.TANAKA,K.ITAKURA,
AUTHOR   2 R.E.DICKERSON
REVDAT   1   21-MAY-81 1BNA    0
JRNL        AUTH   H.R.DREW,R.M.WING,T.TAKANO,C.BROKA,S.TANAKA,
JRNL        AUTH 2 K.ITAKURA,R.E.DICKERSON
JRNL        TITL   STRUCTURE OF A B-DNA DODECAMER. CONFORMATION AND
JRNL        TITL 2 DYNAMICS
JRNL        REF    PROC.NAT.ACAD.SCI.USA         V.  78  2179 1981
JRNL        REFN   ASTM PNASA6  US ISSN 0027-8424                0040
REMARK   1
REMARK   1 REFERENCE 1
REMARK   1  AUTH   R.E.DICKERSON,H.R.DREW
REMARK   1  TITL   KINEMATIC MODEL FOR B-DNA
REMARK   1  REF    PROC.NAT.ACAD.SCI.USA         V.  78  7318 1981
REMARK   1  REFN   ASTM PNASA6  US ISSN 0027-8424                0040
REMARK   1 REFERENCE 2
REMARK   1  AUTH   R.E.DICKERSON,H.R.DREW
REMARK   1  TITL   STRUCTURE OF A B-DNA DODECAMER. II. INFLUENCE OF
REMARK   1  TITL 2 BASE SEQUENCE ON HELIX STRUCTURE
REMARK   1  REF    J.MOL.BIOL.                   V. 149   761 1981
REMARK   1  REFN   ASTM JMOBAK  UK ISSN 0022-2836                0070
```

```
REMARK   1 REFERENCE 3
REMARK   1  AUTH   H.R.DREW,R.E.DICKERSON
REMARK   1  TITL   STRUCTURE OF A B-DNA DODECAMER. III. GEOMETRY OF
REMARK   1  TITL 2 HYDRATION
REMARK   1  REF    J.MOL.BIOL.                   V. 151   535 1981
REMARK   1  REFN   ASTM JMOBAK  UK ISSN 0022-2836               0070
REMARK   1 REFERENCE 4
REMARK   1  AUTH   R.WING,H.R.DREW,T.TAKANO,C.BROKA,S.TANAKA,
REMARK   1  AUTH 2 K.ITAKURA,R.E.DICKERSON
REMARK   1  TITL   CRYSTAL STRUCTURE ANALYSIS OF A COMPLETE TURN OF
REMARK   1  TITL 2 B-DNA
REMARK   1  REF    NATURE                        V. 287   755 1980
REMARK   1  REFN   ASTM NATUAS  UK ISSN 0028-0836               0006
REMARK   2
REMARK   2 RESOLUTION. 1.90 ANGSTROMS.
REMARK   3
REMARK   3 REFINEMENT.
REMARK   3   PROGRAM     : JACK-LEVITT
REMARK   3   AUTHORS     : JACK,LEVITT
REMARK   3
REMARK   3  DATA USED IN REFINEMENT.
REMARK   3   RESOLUTION RANGE HIGH (ANGSTROMS) : 1.9
REMARK   3   RESOLUTION RANGE LOW  (ANGSTROMS) : 8.0
REMARK   3   DATA CUTOFF            (SIGMA(F)) : NULL
REMARK   3   DATA CUTOFF HIGH         (ABS(F)) : NULL
REMARK   3   DATA CUTOFF LOW          (ABS(F)) : NULL
REMARK   3   COMPLETENESS (WORKING+TEST)   (%) : NULL
REMARK   3   NUMBER OF REFLECTIONS             : 2725
REMARK   3
REMARK   3
REMARK   3  FIT TO DATA USED IN REFINEMENT.
REMARK   3   CROSS-VALIDATION METHOD          : NULL
REMARK   3   FREE R VALUE TEST SET SELECTION  : NULL
REMARK   3   R VALUE            (WORKING SET) : 0.178
REMARK   3   FREE R VALUE                     : NULL
REMARK   3   FREE R VALUE TEST SET SIZE   (%) : NULL
REMARK   3   FREE R VALUE TEST SET COUNT      : NULL
REMARK   3   ESTIMATED ERROR OF FREE R VALUE  : NULL
REMARK   3
REMARK   3  FIT IN THE HIGHEST RESOLUTION BIN.
REMARK   3   TOTAL NUMBER OF BINS USED           : NULL
REMARK   3   BIN RESOLUTION RANGE HIGH       (A) : NULL
REMARK   3   BIN RESOLUTION RANGE LOW        (A) : NULL
REMARK   3   BIN COMPLETENESS (WORKING+TEST) (%) : NULL
REMARK   3   REFLECTIONS IN BIN    (WORKING SET) : NULL
REMARK   3   BIN R VALUE           (WORKING SET) : NULL
REMARK   3   BIN FREE R VALUE                    : NULL
REMARK   3   BIN FREE R VALUE TEST SET SIZE  (%) : NULL
REMARK   3   BIN FREE R VALUE TEST SET COUNT     : NULL
REMARK   3   ESTIMATED ERROR OF BIN FREE R VALUE : NULL
REMARK   3
REMARK   3  NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK   3   PROTEIN ATOMS            : 0
REMARK   3   NUCLEIC ACID ATOMS       : 486
REMARK   3   HETEROGEN ATOMS          : 0
REMARK   3   SOLVENT ATOMS            : 80
REMARK   3
REMARK   3  B VALUES.
REMARK   3   FROM WILSON PLOT           (A**2) : NULL
REMARK   3   MEAN B VALUE      (OVERALL, A**2) : NULL
REMARK   3   OVERALL ANISOTROPIC B VALUE.
REMARK   3    B11 (A**2) : NULL
```

```
REMARK   3    B22 (A**2) : NULL
REMARK   3    B33 (A**2) : NULL
REMARK   3    B12 (A**2) : NULL
REMARK   3    B13 (A**2) : NULL
REMARK   3    B23 (A**2) : NULL
REMARK   3
REMARK   3  ESTIMATED COORDINATE ERROR.
REMARK   3   ESD FROM LUZZATI PLOT        (A) : NULL
REMARK   3   ESD FROM SIGMAA              (A) : NULL
REMARK   3   LOW RESOLUTION CUTOFF        (A) : NULL
REMARK   3
REMARK   3  CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK   3   ESD FROM C-V LUZZATI PLOT    (A) : NULL
REMARK   3   ESD FROM C-V SIGMAA          (A) : NULL
REMARK   3
REMARK   3  RMS DEVIATIONS FROM IDEAL VALUES.
REMARK   3   BOND LENGTHS                 (A) : NULL
REMARK   3   BOND ANGLES            (DEGREES) : NULL
REMARK   3   DIHEDRAL ANGLES        (DEGREES) : NULL
REMARK   3   IMPROPER ANGLES        (DEGREES) : NULL
REMARK   3
REMARK   3  ISOTROPIC THERMAL MODEL : NULL
REMARK   3
REMARK   3  ISOTROPIC THERMAL FACTOR RESTRAINTS.    RMS    SIGMA
REMARK   3   MAIN-CHAIN BOND              (A**2) : NULL  ; NULL
REMARK   3   MAIN-CHAIN ANGLE             (A**2) : NULL  ; NULL
REMARK   3   SIDE-CHAIN BOND              (A**2) : NULL  ; NULL
REMARK   3   SIDE-CHAIN ANGLE             (A**2) : NULL  ; NULL
REMARK   3
REMARK   3
REMARK   3  NCS MODEL : NULL
REMARK   3
REMARK   3  NCS RESTRAINTS.                         RMS   SIGMA/WEIGHT
REMARK   3   GROUP  1  POSITIONAL             (A) : NULL  ; NULL
REMARK   3   GROUP  1  B-FACTOR           (A**2) : NULL  ; NULL
REMARK   3
REMARK   3  PARAMETER FILE  1  : NULL
REMARK   3  TOPOLOGY FILE  1   : NULL
REMARK   3
REMARK   3  OTHER REFINEMENT REMARKS: NULL
REMARK 105
REMARK 105 THE PROTEIN DATA BANK HAS ADOPTED THE SACCHARIDE CHEMISTS
REMARK 105 NOMENCLATURE FOR ATOMS OF THE DEOXYRIBOSE/RIBOSE MOIETY
REMARK 105 RATHER THAN THAT OF THE NUCLEOSIDE CHEMISTS.  THE RING
REMARK 105 OXYGEN ATOM IS LABELLED O4* INSTEAD OF O1*.
REMARK 106
REMARK 106 THE HYDROGEN BONDS BETWEEN BASE PAIRS IN THIS ENTRY FOLLOW
REMARK 106 THE CONVENTIONAL WATSON-CRICK HYDROGEN BONDING PATTERN.
REMARK 106 THEY HAVE NOT BEEN PRESENTED ON *CONECT* RECORDS IN THIS
REMARK 106 ENTRY.
REMARK 200
REMARK 200 EXPERIMENTAL DETAILS
REMARK 200  EXPERIMENT TYPE                : X-RAY DIFFRACTION
REMARK 200  DATE OF DATA COLLECTION        : NULL
REMARK 200  TEMPERATURE           (KELVIN) : NULL
REMARK 200  PH                             : NULL
REMARK 200  NUMBER OF CRYSTALS USED        : NULL
REMARK 200
REMARK 200  SYNCHROTRON              (Y/N) : N
REMARK 200  RADIATION SOURCE               : NULL
REMARK 200  BEAMLINE                       : NULL
REMARK 200  X-RAY GENERATOR MODEL          : NULL
```

```
REMARK 200  MONOCHROMATIC OR LAUE    (M/L) : NULL
REMARK 200  WAVELENGTH OR RANGE        (A) : NULL
REMARK 200  MONOCHROMATOR                  : NULL
REMARK 200  OPTICS                         : NULL
REMARK 200
REMARK 200  DETECTOR TYPE                  : DIFFRACTOMETER
REMARK 200  DETECTOR MANUFACTURER          : NULL
REMARK 200  INTENSITY-INTEGRATION SOFTWARE : NULL
REMARK 200  DATA SCALING SOFTWARE          : NULL
REMARK 200
REMARK 200  NUMBER OF UNIQUE REFLECTIONS   : 5691
REMARK 200  RESOLUTION RANGE HIGH      (A) : 1.9
REMARK 200  RESOLUTION RANGE LOW       (A) : NULL
REMARK 200  REJECTION CRITERIA  (SIGMA(I)) : NULL
REMARK 200
REMARK 200 OVERALL.
REMARK 200  COMPLETENESS FOR RANGE     (%) : NULL
REMARK 200  DATA REDUNDANCY                : NULL
REMARK 200  R MERGE                    (I) : NULL
REMARK 200  R SYM                      (I) : NULL
REMARK 200  <I/SIGMA(I)> FOR THE DATA SET  : NULL
REMARK 200
REMARK 200 IN THE HIGHEST RESOLUTION SHELL.
REMARK 200  HIGHEST RESOLUTION SHELL, RANGE HIGH (A) : NULL
REMARK 200  HIGHEST RESOLUTION SHELL, RANGE LOW  (A) : NULL
REMARK 200  COMPLETENESS FOR SHELL     (%) : NULL
REMARK 200  DATA REDUNDANCY IN SHELL       : NULL
REMARK 200  R MERGE FOR SHELL          (I) : NULL
REMARK 200  R SYM FOR SHELL            (I) : NULL
REMARK 200  <I/SIGMA(I)> FOR SHELL         : NULL
REMARK 200
REMARK 200 DIFFRACTION PROTOCOL: NULL
REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: NULL
REMARK 200 SOFTWARE USED: NULL
REMARK 200 STARTING MODEL: NULL
REMARK 200
REMARK 200 REMARK: NULL
REMARK 280
REMARK 280 CRYSTAL
REMARK 280 SOLVENT CONTENT, VS   (%): NULL
REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS**3/DA): NULL
REMARK 280
REMARK 280 CRYSTALLIZATION CONDITIONS:
REMARK 280 CRYSTALS WERE OBTAINED FROM A SOLUTION THAT CONTAINED
REMARK 280 MG ACETATE, SPERMINE_HCL.
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY
REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 21 21 21
REMARK 290
REMARK 290      SYMOP   SYMMETRY
REMARK 290     NNNMMM   OPERATOR
REMARK 290       1555   X,Y,Z
REMARK 290       2555   1/2-X,-Y,1/2+Z
REMARK 290       3555   -X,1/2+Y,1/2-Z
REMARK 290       4555   1/2+X,1/2-Y,-Z
REMARK 290
REMARK 290     WHERE NNN -> OPERATOR NUMBER
REMARK 290           MMM -> TRANSLATION VECTOR
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS
REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM
REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY
```

```
REMARK 290 RELATED MOLECULES.
REMARK 290   SMTRY1   1  1.000000  0.000000  0.000000        0.00000
REMARK 290   SMTRY2   1  0.000000  1.000000  0.000000        0.00000
REMARK 290   SMTRY3   1  0.000000  0.000000  1.000000        0.00000
REMARK 290   SMTRY1   2 -1.000000  0.000000  0.000000       12.43500
REMARK 290   SMTRY2   2  0.000000 -1.000000  0.000000        0.00000
REMARK 290   SMTRY3   2  0.000000  0.000000  1.000000       33.10000
REMARK 290   SMTRY1   3 -1.000000  0.000000  0.000000        0.00000
REMARK 290   SMTRY2   3  0.000000  1.000000  0.000000       20.19500
REMARK 290   SMTRY3   3  0.000000  0.000000 -1.000000       33.10000
REMARK 290   SMTRY1   4  1.000000  0.000000  0.000000       12.43500
REMARK 290   SMTRY2   4  0.000000 -1.000000  0.000000       20.19500
REMARK 290   SMTRY3   4  0.000000  0.000000 -1.000000        0.00000
REMARK 290
REMARK 290 REMARK: NULL
REMARK 500
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: CLOSE CONTACTS IN SAME ASYMMETRIC UNIT
REMARK 500
REMARK 500 THE FOLLOWING ATOMS ARE IN CLOSE CONTACT.
REMARK 500
REMARK 500  ATM1  RES C  SSEQI   ATM2  RES C  SSEQI
REMARK 500   O    HOH      62     O    HOH      77              1.61
REMARK 500   O2P  A   A     6     O    HOH      65              1.89
REMARK 500   O    HOH      70     O2P  G   A    10              2.02
REMARK 500   O    HOH      54     O    HOH      86              2.07
REMARK 500   O    HOH      77     O    HOH      63              2.09
REMARK 500   O    HOH      31     O    HOH      99              2.12
REMARK 525
REMARK 525 SOLVENT
REMARK 525 THE FOLLOWING SOLVENT MOLECULES LIE FARTHER THAN EXPECTED
REMARK 525 FROM THE PROTEIN OR NUCLEIC ACID MOLECULE AND MAY BE
REMARK 525 ASSOCIATED WITH A SYMMETRY RELATED MOLECULE (M=MODEL
REMARK 525 NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE
REMARK 525 NUMBER; I=INSERTION CODE):
REMARK 525
REMARK 525  M RES CSSEQI
REMARK 525  0 HOH    55        DISTANCE =  5.33 ANGSTROMS
REMARK 525  0 HOH    57        DISTANCE =  5.20 ANGSTROMS
REMARK 525  0 HOH    64        DISTANCE =  5.35 ANGSTROMS
REMARK 525  0 HOH    69        DISTANCE =  5.38 ANGSTROMS
REMARK 525  0 HOH    74        DISTANCE =  5.05 ANGSTROMS
REMARK 525  0 HOH    75        DISTANCE =  5.18 ANGSTROMS
REMARK 525  0 HOH    78        DISTANCE =  5.12 ANGSTROMS
REMARK 525  0 HOH    82        DISTANCE =  5.85 ANGSTROMS
REMARK 525  0 HOH    84        DISTANCE =  5.47 ANGSTROMS
REMARK 525  0 HOH    87        DISTANCE =  5.78 ANGSTROMS
REMARK 525  0 HOH    88        DISTANCE =  5.20 ANGSTROMS
REMARK 525  0 HOH    89        DISTANCE =  6.29 ANGSTROMS
REMARK 525  0 HOH    93        DISTANCE =  5.11 ANGSTROMS
REMARK 525  0 HOH    94        DISTANCE =  5.58 ANGSTROMS
REMARK 525  0 HOH    95        DISTANCE =  5.10 ANGSTROMS
REMARK 525  0 HOH    99        DISTANCE =  5.17 ANGSTROMS
REMARK 525  0 HOH   100        DISTANCE =  5.48 ANGSTROMS
REMARK 525  0 HOH   104        DISTANCE =  5.08 ANGSTROMS
DBREF  1BNA A    1    12  NDB    BDL001   BDL001           1     12
DBREF  1BNA B   13    24  NDB    BDL001   BDL001          13     24
SEQRES   1 A   12    C   G   C   G   A   A   T   T   C   G   C   G
SEQRES   1 B   12    C   G   C   G   A   A   T   T   C   G   C   G
FORMUL   3  HOH   *80(H2 O1)
CRYST1   24.870   40.390   66.200  90.00  90.00  90.00 P 21 21 21    8
```

```
ORIGX1      1.000000  0.000000  0.000000        0.00000
ORIGX2      0.000000  1.000000  0.000000        0.00000
ORIGX3      0.000000  0.000000  1.000000        0.00000
SCALE1      0.040209  0.000000  0.000000        0.00000
SCALE2      0.000000  0.024759  0.000000        0.00000
SCALE3      0.000000  0.000000  0.015106        0.00000
ATOM      1  O5*   C A   1      18.935  34.195  25.617  1.00 64.35           O
ATOM      2  C5*   C A   1      19.130  33.921  24.219  1.00 44.69           C
ATOM      3  C4*   C A   1      19.961  32.668  24.100  1.00 31.28           C
ATOM      4  O4*   C A   1      19.360  31.583  24.852  1.00 37.45           O
ATOM      5  C3*   C A   1      20.172  32.122  22.694  1.00 46.72           C
ATOM      6  O3*   C A   1      21.350  31.325  22.681  1.00 48.89           O
ATOM      7  C2*   C A   1      18.948  31.223  22.647  1.00 30.88           C
ATOM      8  C1*   C A   1      19.231  30.482  23.944  1.00 36.58           C
ATOM      9  N1    C A   1      18.070  29.661  24.380  1.00 40.51           N
ATOM     10  C2    C A   1      18.224  28.454  25.015  1.00 16.62           C
ATOM     11  O2    C A   1      19.360  28.014  25.214  1.00 27.75           O
ATOM     12  N3    C A   1      17.143  27.761  25.377  1.00 20.55           N
ATOM     13  C4    C A   1      15.917  28.226  25.120  1.00 34.72           C
ATOM     14  N4    C A   1      14.828  27.477  25.444  1.00 40.31           N
ATOM     15  C5    C A   1      15.719  29.442  24.471  1.00 30.78           C
ATOM     16  C6    C A   1      16.843  30.171  24.101  1.00 25.90           C
ATOM     17  P     G A   2      22.409  31.286  21.483  1.00 58.85           P
ATOM     18  O1P   G A   2      23.536  32.157  21.851  1.00 57.82           O
ATOM     19  O2P   G A   2      21.822  31.459  20.139  1.00 78.33           O
ATOM     20  O5*   G A   2      22.840  29.751  21.498  1.00 40.36           O
ATOM     21  C5*   G A   2      23.543  29.175  22.594  1.00 47.19           C
ATOM     22  C4*   G A   2      23.494  27.709  22.279  1.00 47.81           C
ATOM     23  O4*   G A   2      22.193  27.252  22.674  1.00 38.76           O
ATOM     24  C3*   G A   2      23.693  27.325  20.807  1.00 28.58           C
ATOM     25  O3*   G A   2      24.723  26.320  20.653  1.00 40.44           O
ATOM     26  C2*   G A   2      22.273  26.885  20.416  1.00 21.14           C
ATOM     27  C1*   G A   2      21.721  26.304  21.716  1.00 33.95           C
ATOM     28  N9    G A   2      20.237  26.470  21.780  1.00 34.00           N
ATOM     29  C8    G A   2      19.526  27.584  21.429  1.00 36.47           C
ATOM     30  N7    G A   2      18.207  27.455  21.636  1.00 32.37           N
ATOM     31  C5    G A   2      18.083  26.212  22.142  1.00 15.06           C
ATOM     32  C6    G A   2      16.904  25.525  22.545  1.00 11.88           C
ATOM     33  O6    G A   2      15.739  25.916  22.518  1.00 21.30           O
ATOM     34  N1    G A   2      17.197  24.279  23.037  1.00 15.44           N
ATOM     35  C2    G A   2      18.434  23.717  23.155  1.00  9.63           C
ATOM     36  N2    G A   2      18.508  22.456  23.668  1.00 16.69           N
ATOM     37  N3    G A   2      19.537  24.360  22.770  1.00 30.98           N
ATOM     38  C4    G A   2      19.290  25.594  22.274  1.00 18.56           C
ATOM     39  P     C A   3      25.064  25.621  19.252  1.00 44.67           P
ATOM     40  O1P   C A   3      26.506  25.316  19.220  1.00 53.89           O
ATOM     41  O2P   C A   3      24.559  26.412  18.115  1.00 57.79           O
ATOM     42  O5*   C A   3      24.260  24.246  19.327  1.00 35.42           O
ATOM     43  C5*   C A   3      24.584  23.285  20.335  1.00 45.75           C
ATOM     44  C4*   C A   3      23.523  22.233  20.245  1.00 43.02           C
ATOM     45  O4*   C A   3      22.256  22.844  20.453  1.00 36.85           O
ATOM     46  C3*   C A   3      23.424  21.557  18.903  1.00 40.14           C
ATOM     47  O3*   C A   3      24.121  20.309  18.928  1.00 49.62           O
ATOM     48  C2*   C A   3      21.930  21.406  18.661  1.00 53.79           C
ATOM     49  C1*   C A   3      21.278  21.966  19.909  1.00 22.18           C
ATOM     50  N1    C A   3      20.196  22.889  19.521  1.00 25.44           N
ATOM     51  C2    C A   3      18.909  22.584  19.816  1.00 19.81           C
ATOM     52  O2    C A   3      18.685  21.512  20.382  1.00 29.92           O
ATOM     53  N3    C A   3      17.935  23.447  19.502  1.00 21.59           N
ATOM     54  C4    C A   3      18.217  24.603  18.897  1.00 14.01           C
ATOM     55  N4    C A   3      17.221  25.499  18.629  1.00 26.88           N
ATOM     56  C5    C A   3      19.526  24.945  18.571  1.00 27.59           C
```

```
ATOM     57  C6    C A   3      20.537  24.048  18.899  1.00 27.05           C
ATOM     58  P     G A   4      24.249  19.412  17.617  1.00 44.54           P
ATOM     59  O1P   G A   4      25.420  18.535  17.765  1.00 61.90           O
ATOM     60  O2P   G A   4      24.208  20.296  16.440  1.00 37.36           O
ATOM     61  O5*   G A   4      22.931  18.537  17.670  1.00 32.01           O
ATOM     62  C5*   G A   4      22.714  17.625  18.753  1.00 37.89           C
ATOM     63  C4*   G A   4      21.393  16.960  18.505  1.00 53.00           C
ATOM     64  O4*   G A   4      20.353  17.952  18.496  1.00 38.79           O
ATOM     65  C3*   G A   4      21.264  16.229  17.176  1.00 56.72           C
ATOM     66  O3*   G A   4      20.284  15.214  17.238  1.00 64.12           O
ATOM     67  C2*   G A   4      20.793  17.368  16.288  1.00 40.81           C
ATOM     68  C1*   G A   4      19.716  17.901  17.218  1.00 30.52           C
ATOM     69  N9    G A   4      19.305  19.281  16.869  1.00 28.53           N
ATOM     70  C8    G A   4      20.017  20.263  16.232  1.00 27.82           C
ATOM     71  N7    G A   4      19.313  21.394  16.077  1.00 28.01           N
ATOM     72  C5    G A   4      18.121  21.100  16.635  1.00 23.22           C
ATOM     73  C6    G A   4      16.952  21.904  16.749  1.00 29.21           C
ATOM     74  O6    G A   4      16.769  23.057  16.368  1.00 38.58           O
ATOM     75  N1    G A   4      15.933  21.214  17.352  1.00 27.94           N
ATOM     76  C2    G A   4      15.972  19.930  17.816  1.00 23.44           C
ATOM     77  N2    G A   4      14.831  19.416  18.353  1.00 42.64           N
ATOM     78  N3    G A   4      17.068  19.179  17.717  1.00 21.56           N
ATOM     79  C4    G A   4      18.084  19.825  17.121  1.00 23.44           C
ATOM     80  P     A A   5      20.356  13.969  16.245  1.00 57.01           P
ATOM     81  O1P   A A   5      21.116  12.891  16.892  1.00 58.59           O
ATOM     82  O2P   A A   5      20.837  14.423  14.910  1.00 51.96           O
ATOM     83  O5*   A A   5      18.810  13.581  16.161  1.00 47.12           O
ATOM     84  C5*   A A   5      18.015  13.569  17.362  1.00 47.67           C
ATOM     85  C4*   A A   5      16.672  14.088  16.957  1.00 64.79           C
ATOM     86  O4*   A A   5      16.842  15.447  16.561  1.00 47.60           O
ATOM     87  C3*   A A   5      16.019  13.393  15.764  1.00 51.50           C
ATOM     88  O3*   A A   5      14.762  12.796  16.120  1.00 52.18           O
ATOM     89  C2*   A A   5      15.952  14.498  14.696  1.00 45.00           C
ATOM     90  C1*   A A   5      15.851  15.732  15.569  1.00 26.88           C
ATOM     91  N9    A A   5      16.391  16.916  14.867  1.00 16.69           N
ATOM     92  C8    A A   5      17.658  17.103  14.382  1.00 28.14           C
ATOM     93  N7    A A   5      17.863  18.346  13.913  1.00 34.85           N
ATOM     94  C5    A A   5      16.673  18.953  14.098  1.00 22.49           C
ATOM     95  C6    A A   5      16.230  20.279  13.819  1.00 18.12           C
ATOM     96  N6    A A   5      17.045  21.222  13.268  1.00 29.30           N
ATOM     97  N1    A A   5      14.966  20.578  14.118  1.00 27.61           N
ATOM     98  C2    A A   5      14.178  19.652  14.669  1.00 18.53           C
ATOM     99  N3    A A   5      14.463  18.392  14.984  1.00 29.16           N
ATOM    100  C4    A A   5      15.750  18.110  14.661  1.00 15.08           C
ATOM    101  P     A A   6      13.866  12.006  15.063  1.00 43.68           P
ATOM    102  O1P   A A   6      13.028  11.039  15.800  1.00 42.55           O
ATOM    103  O2P   A A   6      14.715  11.499  13.968  1.00 54.20           O
ATOM    104  O5*   A A   6      12.879  13.111  14.480  1.00 28.20           O
ATOM    105  C5*   A A   6      11.802  13.597  15.290  1.00 42.29           C
ATOM    106  C4*   A A   6      11.111  14.603  14.435  1.00 33.23           C
ATOM    107  O4*   A A   6      12.152  15.460  13.962  1.00 41.48           O
ATOM    108  C3*   A A   6      10.417  14.070  13.187  1.00 18.16           C
ATOM    109  O3*   A A   6       9.007  14.369  13.181  1.00 30.42           O
ATOM    110  C2*   A A   6      11.240  14.692  12.061  1.00 52.97           C
ATOM    111  C1*   A A   6      11.699  15.974  12.719  1.00 38.93           C
ATOM    112  N9    A A   6      12.918  16.526  12.078  1.00 19.06           N
ATOM    113  C8    A A   6      14.115  15.899  11.868  1.00 17.83           C
ATOM    114  N7    A A   6      15.049  16.714  11.356  1.00 29.55           N
ATOM    115  C5    A A   6      14.416  17.901  11.246  1.00 19.88           C
ATOM    116  C6    A A   6      14.873  19.187  10.815  1.00 17.26           C
ATOM    117  N6    A A   6      16.161  19.418  10.427  1.00 19.85           N
ATOM    118  N1    A A   6      13.999  20.191  10.852  1.00 17.93           N
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ATOM    119  C2    A A   6      12.753  19.962  11.272  1.00 23.00           C
ATOM    120  N3    A A   6      12.210  18.824  11.698  1.00 21.37           N
ATOM    121  C4    A A   6      13.116  17.823  11.657  1.00 15.93           C
ATOM    122  P     T A   7       8.081  14.050  11.915  1.00 40.72           P
ATOM    123  O1P   T A   7       6.668  13.960  12.342  1.00 46.75           O
ATOM    124  O2P   T A   7       8.600  12.894  11.137  1.00 42.53           O
ATOM    125  O5*   T A   7       8.239  15.387  11.076  1.00 35.21           O
ATOM    126  C5*   T A   7       7.907  16.635  11.686  1.00 34.88           C
ATOM    127  C4*   T A   7       8.162  17.628  10.598  1.00 31.45           C
ATOM    128  O4*   T A   7       9.543  17.580  10.279  1.00 46.82           O
ATOM    129  C3*   T A   7       7.461  17.284   9.296  1.00 23.76           C
ATOM    130  O3*   T A   7       6.251  18.034   9.162  1.00 44.27           O
ATOM    131  C2*   T A   7       8.532  17.527   8.223  1.00 26.30           C
ATOM    132  C1*   T A   7       9.644  18.209   9.019  1.00 28.96           C
ATOM    133  N1    T A   7      11.021  17.903   8.565  1.00 20.47           N
ATOM    134  C2    T A   7      11.822  18.923   8.176  1.00 28.01           C
ATOM    135  O2    T A   7      11.383  20.077   8.143  1.00 40.01           O
ATOM    136  N3    T A   7      13.119  18.641   7.852  1.00 27.94           N
ATOM    137  C4    T A   7      13.633  17.372   7.882  1.00 15.14           C
ATOM    138  O4    T A   7      14.830  17.222   7.619  1.00 32.54           O
ATOM    139  C5    T A   7      12.781  16.325   8.235  1.00 10.83           C
ATOM    140  C5M   T A   7      13.269  14.902   8.236  1.00 36.33           C
ATOM    141  C6    T A   7      11.465  16.616   8.594  1.00 12.19           C
ATOM    142  P     T A   8       5.384  17.990   7.824  1.00 49.10           P
ATOM    143  O1P   T A   8       4.025  18.444   8.180  1.00 41.11           O
ATOM    144  O2P   T A   8       5.458  16.668   7.160  1.00 39.21           O
ATOM    145  O5*   T A   8       6.086  19.118   6.927  1.00 48.80           O
ATOM    146  C5*   T A   8       6.146  20.478   7.418  1.00 34.73           C
ATOM    147  C4*   T A   8       6.995  21.229   6.438  1.00 28.73           C
ATOM    148  O4*   T A   8       8.188  20.458   6.284  1.00 39.07           O
ATOM    149  C3*   T A   8       6.418  21.332   5.029  1.00 37.88           C
ATOM    150  O3*   T A   8       5.967  22.667   4.696  1.00 52.04           O
ATOM    151  C2*   T A   8       7.513  20.718   4.139  1.00 32.80           C
ATOM    152  C1*   T A   8       8.736  20.855   5.034  1.00 36.58           C
ATOM    153  N1    T A   8       9.823  19.876   4.759  1.00 24.57           N
ATOM    154  C2    T A   8      11.086  20.316   4.494  1.00 19.41           C
ATOM    155  O2    T A   8      11.324  21.516   4.389  1.00 32.74           O
ATOM    156  N3    T A   8      12.094  19.403   4.412  1.00 25.12           N
ATOM    157  C4    T A   8      11.876  18.060   4.551  1.00 31.35           C
ATOM    158  O4    T A   8      12.858  17.317   4.503  1.00 28.53           O
ATOM    159  C5    T A   8      10.569  17.611   4.765  1.00 22.80           C
ATOM    160  C5M   T A   8      10.261  16.140   4.896  1.00 24.98           C
ATOM    161  C6    T A   8       9.545  18.548   4.904  1.00 20.28           C
ATOM    162  P     C A   9       5.531  23.071   3.209  1.00 48.97           P
ATOM    163  O1P   C A   9       4.648  24.244   3.269  1.00 62.33           O
ATOM    164  O2P   C A   9       5.010  21.905   2.470  1.00 51.53           O
ATOM    165  O5*   C A   9       6.926  23.547   2.611  1.00 43.99           O
ATOM    166  C5*   C A   9       7.636  24.627   3.249  1.00 50.86           C
ATOM    167  C4*   C A   9       8.897  24.853   2.457  1.00 46.66           C
ATOM    168  O4*   C A   9       9.638  23.627   2.448  1.00 42.69           O
ATOM    169  C3*   C A   9       8.717  25.240   0.998  1.00 56.96           C
ATOM    170  O3*   C A   9       9.470  26.414   0.667  1.00 63.54           O
ATOM    171  C2*   C A   9       9.126  23.965   0.253  1.00 50.41           C
ATOM    172  C1*   C A   9      10.241  23.483   1.157  1.00 41.08           C
ATOM    173  N1    C A   9      10.524  22.022   1.015  1.00 37.23           N
ATOM    174  C2    C A   9      11.814  21.603   0.840  1.00 40.54           C
ATOM    175  O2    C A   9      12.691  22.447   0.670  1.00 43.89           O
ATOM    176  N3    C A   9      12.106  20.297   0.873  1.00 32.57           N
ATOM    177  C4    C A   9      11.141  19.395   1.046  1.00 24.65           C
ATOM    178  N4    C A   9      11.461  18.075   1.089  1.00 27.84           N
ATOM    179  C5    C A   9       9.803  19.775   1.177  1.00 17.61           C
ATOM    180  C6    C A   9       9.499  21.133   1.167  1.00 30.63           C
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ATOM    181  P     G A  10       9.055  27.333  -0.581  1.00 65.48           P
ATOM    182  O1P   G A  10       9.496  28.717  -0.258  1.00 59.09           O
ATOM    183  O2P   G A  10       7.632  27.106  -0.947  1.00 45.71           O
ATOM    184  O5*   G A  10       9.954  26.765  -1.771  1.00 70.30           O
ATOM    185  C5*   G A  10      11.382  26.940  -1.720  1.00 71.73           C
ATOM    186  C4*   G A  10      11.972  26.090  -2.802  1.00 58.69           C
ATOM    187  O4*   G A  10      11.802  24.724  -2.404  1.00 41.03           O
ATOM    188  C3*   G A  10      11.327  26.178  -4.188  1.00 45.61           C
ATOM    189  O3*   G A  10      12.311  26.096  -5.214  1.00 52.70           O
ATOM    190  C2*   G A  10      10.414  24.962  -4.186  1.00 36.02           C
ATOM    191  C1*   G A  10      11.429  24.028  -3.587  1.00 50.90           C
ATOM    192  N9    G A  10      10.890  22.713  -3.200  1.00 45.86           N
ATOM    193  C8    G A  10       9.616  22.315  -2.910  1.00 44.49           C
ATOM    194  N7    G A  10       9.541  21.009  -2.613  1.00 39.96           N
ATOM    195  C5    G A  10      10.818  20.588  -2.718  1.00 38.99           C
ATOM    196  C6    G A  10      11.376  19.292  -2.511  1.00 35.78           C
ATOM    197  O6    G A  10      10.813  18.252  -2.179  1.00 34.90           O
ATOM    198  N1    G A  10      12.729  19.299  -2.720  1.00 23.54           N
ATOM    199  C2    G A  10      13.498  20.365  -3.082  1.00  8.73           C
ATOM    200  N2    G A  10      14.834  20.169  -3.237  1.00 23.15           N
ATOM    201  N3    G A  10      12.982  21.573  -3.267  1.00 24.68           N
ATOM    202  C4    G A  10      11.656  21.601  -3.061  1.00 31.53           C
ATOM    203  P     C A  11      12.763  27.421  -5.980  1.00 60.62           P
ATOM    204  O1P   C A  11      12.796  28.572  -5.049  1.00 63.74           O
ATOM    205  O2P   C A  11      11.886  27.542  -7.164  1.00 52.44           O
ATOM    206  O5*   C A  11      14.272  27.086  -6.366  1.00 57.57           O
ATOM    207  C5*   C A  11      15.275  27.108  -5.318  1.00 54.70           C
ATOM    208  C4*   C A  11      16.222  25.946  -5.510  1.00 72.51           C
ATOM    209  O4*   C A  11      15.443  24.754  -5.397  1.00 47.18           O
ATOM    210  C3*   C A  11      16.942  25.827  -6.848  1.00 29.82           C
ATOM    211  O3*   C A  11      18.340  25.511  -6.701  1.00 43.53           O
ATOM    212  C2*   C A  11      16.118  24.767  -7.578  1.00 51.34           C
ATOM    213  C1*   C A  11      15.856  23.836  -6.414  1.00 30.07           C
ATOM    214  N1    C A  11      14.672  22.975  -6.637  1.00 23.25           N
ATOM    215  C2    C A  11      14.802  21.628  -6.529  1.00 20.38           C
ATOM    216  O2    C A  11      15.924  21.178  -6.314  1.00 38.77           O
ATOM    217  N3    C A  11      13.723  20.842  -6.627  1.00 15.92           N
ATOM    218  C4    C A  11      12.515  21.373  -6.836  1.00 15.82           C
ATOM    219  N4    C A  11      11.410  20.574  -6.872  1.00 28.04           N
ATOM    220  C5    C A  11      12.348  22.744  -6.978  1.00 26.17           C
ATOM    221  C6    C A  11      13.470  23.558  -6.869  1.00 35.50           C
ATOM    222  P     G A  12      19.331  25.774  -7.925  1.00 55.98           P
ATOM    223  O1P   G A  12      20.704  25.976  -7.408  1.00 45.83           O
ATOM    224  O2P   G A  12      18.763  26.851  -8.758  1.00 44.26           O
ATOM    225  O5*   G A  12      19.302  24.412  -8.763  1.00 62.63           O
ATOM    226  C5*   G A  12      20.109  23.284  -8.359  1.00 69.50           C
ATOM    227  C4*   G A  12      19.748  22.167  -9.299  1.00 39.92           C
ATOM    228  O4*   G A  12      18.350  21.969  -9.139  1.00 32.00           O
ATOM    229  C3*   G A  12      19.921  22.404 -10.815  1.00 50.39           C
ATOM    230  O3*   G A  12      20.985  21.635 -11.401  1.00 64.13           O
ATOM    231  C2*   G A  12      18.535  22.062 -11.381  1.00 36.18           C
ATOM    232  C1*   G A  12      17.965  21.200 -10.269  1.00 24.79           C
ATOM    233  N9    G A  12      16.493  21.220 -10.265  1.00 28.44           N
ATOM    234  C8    G A  12      15.663  22.289 -10.478  1.00 31.85           C
ATOM    235  N7    G A  12      14.368  21.958 -10.390  1.00 38.26           N
ATOM    236  C5    G A  12      14.388  20.640 -10.102  1.00 28.99           C
ATOM    237  C6    G A  12      13.301  19.742  -9.856  1.00 42.63           C
ATOM    238  O6    G A  12      12.091  19.967  -9.857  1.00 49.17           O
ATOM    239  N1    G A  12      13.750  18.466  -9.625  1.00 40.15           N
ATOM    240  C2    G A  12      15.042  18.043  -9.605  1.00 33.42           C
ATOM    241  N2    G A  12      15.259  16.717  -9.406  1.00 40.53           N
ATOM    242  N3    G A  12      16.061  18.885  -9.792  1.00 37.34           N
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ATOM    243  C4    G A  12      15.660  20.156 -10.027  1.00 31.14           C
TER     244        G A  12
ATOM    245  O5*   C B  13       7.458  11.884  -9.070  1.00 66.23           O
ATOM    246  C5*   C B  13       8.252  10.968  -9.854  1.00 71.49           C
ATOM    247  C4*   C B  13       9.714  11.141  -9.512  1.00 56.82           C
ATOM    248  O4*   C B  13      10.144  12.455  -9.908  1.00 57.92           O
ATOM    249  C3*   C B  13      10.103  10.989  -8.055  1.00 34.34           C
ATOM    250  O3*   C B  13      11.293  10.221  -7.904  1.00 42.11           O
ATOM    251  C2*   C B  13      10.254  12.437  -7.607  1.00 29.08           C
ATOM    252  C1*   C B  13      10.896  13.044  -8.837  1.00 38.40           C
ATOM    253  N1    C B  13      10.575  14.487  -8.944  1.00 34.33           N
ATOM    254  C2    C B  13      11.559  15.430  -9.006  1.00 22.98           C
ATOM    255  O2    C B  13      12.725  15.066  -8.932  1.00 50.83           O
ATOM    256  N3    C B  13      11.246  16.714  -9.193  1.00 37.14           N
ATOM    257  C4    C B  13       9.980  17.088  -9.334  1.00 42.60           C
ATOM    258  N4    C B  13       9.698  18.395  -9.589  1.00 54.91           N
ATOM    259  C5    C B  13       8.939  16.162  -9.274  1.00 56.67           C
ATOM    260  C6    C B  13       9.265  14.824  -9.080  1.00 49.21           C
ATOM    261  P     G B  14      11.602   9.510  -6.502  1.00 60.42           P
ATOM    262  O1P   G B  14      11.666   8.032  -6.664  1.00 57.44           O
ATOM    263  O2P   G B  14      10.644  10.010  -5.494  1.00 46.07           O
ATOM    264  O5*   G B  14      13.051  10.094  -6.177  1.00 50.94           O
ATOM    265  C5*   G B  14      14.100  10.021  -7.156  1.00 34.84           C
ATOM    266  C4*   G B  14      15.113  10.992  -6.657  1.00 48.06           C
ATOM    267  O4*   G B  14      14.556  12.300  -6.755  1.00 37.01           O
ATOM    268  C3*   G B  14      15.445  10.806  -5.189  1.00 50.58           C
ATOM    269  O3*   G B  14      16.836  10.560  -5.013  1.00 51.98           O
ATOM    270  C2*   G B  14      14.937  12.100  -4.529  1.00 40.32           C
ATOM    271  C1*   G B  14      15.058  13.086  -5.671  1.00 46.69           C
ATOM    272  N9    G B  14      14.036  14.140  -5.536  1.00 29.17           N
ATOM    273  C8    G B  14      12.710  13.957  -5.259  1.00 23.48           C
ATOM    274  N7    G B  14      12.016  15.103  -5.269  1.00 37.54           N
ATOM    275  C5    G B  14      12.937  16.041  -5.558  1.00 26.27           C
ATOM    276  C6    G B  14      12.761  17.451  -5.710  1.00 40.82           C
ATOM    277  O6    G B  14      11.723  18.111  -5.630  1.00 44.39           O
ATOM    278  N1    G B  14      13.952  18.079  -5.973  1.00 19.52           N
ATOM    279  C2    G B  14      15.171  17.485  -6.107  1.00 18.48           C
ATOM    280  N2    G B  14      16.244  18.292  -6.325  1.00 36.58           N
ATOM    281  N3    G B  14      15.329  16.161  -5.986  1.00 46.96           N
ATOM    282  C4    G B  14      14.179  15.499  -5.721  1.00 35.70           C
ATOM    283  P     C B  15      17.478  10.380  -3.569  1.00 46.26           P
ATOM    284  O1P   C B  15      18.665   9.516  -3.729  1.00 46.07           O
ATOM    285  O2P   C B  15      16.427   9.940  -2.633  1.00 40.43           O
ATOM    286  O5*   C B  15      17.957  11.865  -3.208  1.00 40.97           O
ATOM    287  C5*   C B  15      18.963  12.531  -3.996  1.00 28.78           C
ATOM    288  C4*   C B  15      18.936  13.958  -3.536  1.00 32.84           C
ATOM    289  O4*   C B  15      17.592  14.409  -3.622  1.00 37.24           O
ATOM    290  C3*   C B  15      19.253  14.139  -2.066  1.00 43.98           C
ATOM    291  O3*   C B  15      20.659  14.219  -1.858  1.00 40.90           O
ATOM    292  C2*   C B  15      18.520  15.417  -1.728  1.00 36.26           C
ATOM    293  C1*   C B  15      17.545  15.602  -2.872  1.00 20.54           C
ATOM    294  N1    C B  15      16.145  15.696  -2.428  1.00 23.10           N
ATOM    295  C2    C B  15      15.507  16.886  -2.558  1.00 32.12           C
ATOM    296  O2    C B  15      16.162  17.846  -2.957  1.00 30.04           O
ATOM    297  N3    C B  15      14.209  16.983  -2.264  1.00 32.94           N
ATOM    298  C4    C B  15      13.536  15.919  -1.825  1.00 16.43           C
ATOM    299  N4    C B  15      12.205  16.017  -1.553  1.00 34.91           N
ATOM    300  C5    C B  15      14.164  14.689  -1.652  1.00 22.75           C
ATOM    301  C6    C B  15      15.509  14.584  -1.979  1.00 26.42           C
ATOM    302  P     G B  16      21.304  14.529  -0.436  1.00 42.39           P
ATOM    303  O1P   G B  16      22.696  14.087  -0.524  1.00 60.41           O
ATOM    304  O2P   G B  16      20.488  13.954   0.650  1.00 51.09           O
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ATOM    305  O5*   G B  16      21.306  16.117  -0.363  1.00 45.08           O
ATOM    306  C5*   G B  16      22.177  16.876  -1.212  1.00 33.20           C
ATOM    307  C4*   G B  16      21.739  18.292  -1.021  1.00 24.95           C
ATOM    308  O4*   G B  16      20.305  18.225  -1.048  1.00 32.83           O
ATOM    309  C3*   G B  16      22.101  18.959   0.293  1.00 41.12           C
ATOM    310  O3*   G B  16      22.592  20.293   0.097  1.00 53.45           O
ATOM    311  C2*   G B  16      20.820  18.829   1.121  1.00 28.93           C
ATOM    312  C1*   G B  16      19.765  18.985   0.046  1.00 37.44           C
ATOM    313  N9    G B  16      18.513  18.299   0.468  1.00 17.75           N
ATOM    314  C8    G B  16      18.363  17.062   1.039  1.00 17.96           C
ATOM    315  N7    G B  16      17.080  16.744   1.281  1.00 24.14           N
ATOM    316  C5    G B  16      16.400  17.832   0.868  1.00  9.96           C
ATOM    317  C6    G B  16      14.996  18.090   0.882  1.00 18.10           C
ATOM    318  O6    G B  16      14.082  17.378   1.280  1.00 31.13           O
ATOM    319  N1    G B  16      14.712  19.349   0.418  1.00 17.72           N
ATOM    320  C2    G B  16      15.606  20.268  -0.027  1.00 16.23           C
ATOM    321  N2    G B  16      15.134  21.493  -0.382  1.00 33.42           N
ATOM    322  N3    G B  16      16.912  20.017  -0.072  1.00 26.37           N
ATOM    323  C4    G B  16      17.236  18.794   0.384  1.00 31.72           C
ATOM    324  P     A B  17      22.904  21.238   1.339  1.00 46.87           P
ATOM    325  O1P   A B  17      23.994  22.183   1.025  1.00 47.75           O
ATOM    326  O2P   A B  17      23.104  20.390   2.538  1.00 46.81           O
ATOM    327  O5*   A B  17      21.577  22.107   1.390  1.00 39.51           O
ATOM    328  C5*   A B  17      21.216  22.833   0.200  1.00 30.37           C
ATOM    329  C4*   A B  17      20.101  23.788   0.484  1.00 35.43           C
ATOM    330  O4*   A B  17      18.913  23.054   0.816  1.00 43.05           O
ATOM    331  C3*   A B  17      20.347  24.743   1.633  1.00 44.50           C
ATOM    332  O3*   A B  17      19.732  26.010   1.411  1.00 78.59           O
ATOM    333  C2*   A B  17      19.752  23.945   2.791  1.00 44.42           C
ATOM    334  C1*   A B  17      18.497  23.393   2.145  1.00 42.55           C
ATOM    335  N9    A B  17      18.079  22.095   2.758  1.00 34.56           N
ATOM    336  C8    A B  17      18.847  21.020   3.133  1.00 20.07           C
ATOM    337  N7    A B  17      18.114  19.984   3.584  1.00 27.60           N
ATOM    338  C5    A B  17      16.842  20.424   3.488  1.00 18.80           C
ATOM    339  C6    A B  17      15.577  19.817   3.786  1.00 32.58           C
ATOM    340  N6    A B  17      15.448  18.537   4.242  1.00 29.54           N
ATOM    341  N1    A B  17      14.482  20.557   3.593  1.00 35.01           N
ATOM    342  C2    A B  17      14.597  21.801   3.118  1.00 36.47           C
ATOM    343  N3    A B  17      15.700  22.472   2.783  1.00 38.96           N
ATOM    344  C4    A B  17      16.791  21.706   3.002  1.00 28.24           C
ATOM    345  P     A B  18      19.803  27.141   2.526  1.00 46.11           P
ATOM    346  O1P   A B  18      19.796  28.478   1.888  1.00 49.20           O
ATOM    347  O2P   A B  18      20.953  26.858   3.426  1.00 43.48           O
ATOM    348  O5*   A B  18      18.396  26.939   3.241  1.00 40.83           O
ATOM    349  C5*   A B  18      17.203  27.028   2.452  1.00 40.72           C
ATOM    350  C4*   A B  18      16.035  26.958   3.388  1.00 66.52           C
ATOM    351  O4*   A B  18      15.856  25.612   3.850  1.00 44.25           O
ATOM    352  C3*   A B  18      16.101  27.861   4.615  1.00 63.34           C
ATOM    353  O3*   A B  18      14.890  28.608   4.757  1.00 55.65           O
ATOM    354  C2*   A B  18      16.368  26.844   5.724  1.00 34.49           C
ATOM    355  C1*   A B  18      15.561  25.655   5.243  1.00 29.45           C
ATOM    356  N9    A B  18      16.104  24.373   5.755  1.00 20.03           N
ATOM    357  C8    A B  18      17.411  23.967   5.830  1.00 16.51           C
ATOM    358  N7    A B  18      17.539  22.706   6.276  1.00 20.58           N
ATOM    359  C5    A B  18      16.266  22.309   6.480  1.00 21.66           C
ATOM    360  C6    A B  18      15.715  21.073   6.933  1.00 17.93           C
ATOM    361  N6    A B  18      16.483  19.994   7.243  1.00 20.37           N
ATOM    362  N1    A B  18      14.389  20.994   7.036  1.00 20.81           N
ATOM    363  C2    A B  18      13.636  22.041   6.708  1.00 26.77           C
ATOM    364  N3    A B  18      14.019  23.234   6.265  1.00 26.83           N
ATOM    365  C4    A B  18      15.367  23.291   6.174  1.00 27.48           C
ATOM    366  P     T B  19      14.604  29.545   6.020  1.00 48.40           P
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ATOM    367  O1P   T B  19      13.792  30.696   5.582  1.00 50.18           O
ATOM    368  O2P   T B  19      15.852  29.836   6.749  1.00 44.42           O
ATOM    369  O5*   T B  19      13.633  28.628   6.885  1.00 53.86           O
ATOM    370  C5*   T B  19      12.398  28.171   6.303  1.00 55.04           C
ATOM    371  C4*   T B  19      11.809  27.217   7.302  1.00 44.86           C
ATOM    372  O4*   T B  19      12.767  26.184   7.534  1.00 48.52           O
ATOM    373  C3*   T B  19      11.515  27.822   8.669  1.00 41.77           C
ATOM    374  O3*   T B  19      10.103  27.952   8.891  1.00 57.02           O
ATOM    375  C2*   T B  19      12.267  26.906   9.630  1.00 39.28           C
ATOM    376  C1*   T B  19      12.426  25.645   8.799  1.00 27.68           C
ATOM    377  N1    T B  19      13.609  24.850   9.205  1.00 21.67           N
ATOM    378  C2    T B  19      13.442  23.575   9.656  1.00 31.71           C
ATOM    379  O2    T B  19      12.311  23.101   9.802  1.00 36.00           O
ATOM    380  N3    T B  19      14.551  22.825   9.913  1.00 24.66           N
ATOM    381  C4    T B  19      15.815  23.321   9.777  1.00 40.64           C
ATOM    382  O4    T B  19      16.755  22.570  10.029  1.00 31.47           O
ATOM    383  C5    T B  19      15.972  24.647   9.362  1.00 31.79           C
ATOM    384  C5M   T B  19      17.345  25.239   9.234  1.00 30.05           C
ATOM    385  C6    T B  19      14.844  25.405   9.048  1.00 14.35           C
ATOM    386  P     T B  20       9.513  28.533  10.260  1.00 48.24           P
ATOM    387  O1P   T B  20       8.145  29.007   9.998  1.00 41.28           O
ATOM    388  O2P   T B  20      10.455  29.513  10.841  1.00 53.39           O
ATOM    389  O5*   T B  20       9.395  27.223  11.153  1.00 36.57           O
ATOM    390  C5*   T B  20       8.576  26.148  10.664  1.00 50.41           C
ATOM    391  C4*   T B  20       8.655  25.060  11.678  1.00 32.08           C
ATOM    392  O4*   T B  20      10.003  24.615  11.764  1.00 48.38           O
ATOM    393  C3*   T B  20       8.272  25.471  13.087  1.00 29.99           C
ATOM    394  O3*   T B  20       7.199  24.657  13.553  1.00 45.14           O
ATOM    395  C2*   T B  20       9.586  25.307  13.860  1.00 32.42           C
ATOM    396  C1*   T B  20      10.190  24.148  13.089  1.00 39.56           C
ATOM    397  N1    T B  20      11.660  24.070  13.205  1.00 20.36           N
ATOM    398  C2    T B  20      12.257  22.880  13.486  1.00 27.55           C
ATOM    399  O2    T B  20      11.583  21.866  13.691  1.00 38.33           O
ATOM    400  N3    T B  20      13.620  22.829  13.497  1.00 29.60           N
ATOM    401  C4    T B  20      14.402  23.914  13.225  1.00 30.11           C
ATOM    402  O4    T B  20      15.625  23.764  13.252  1.00 32.92           O
ATOM    403  C5    T B  20      13.774  25.126  12.933  1.00 24.11           C
ATOM    404  C5M   T B  20      14.563  26.358  12.612  1.00 23.96           C
ATOM    405  C6    T B  20      12.385  25.187  12.926  1.00 19.78           C
ATOM    406  P     C B  21       6.594  24.823  15.016  1.00 54.73           P
ATOM    407  O1P   C B  21       5.169  24.424  14.987  1.00 53.98           O
ATOM    408  O2P   C B  21       6.870  26.189  15.511  1.00 65.53           O
ATOM    409  O5*   C B  21       7.409  23.731  15.839  1.00 50.67           O
ATOM    410  C5*   C B  21       7.331  22.352  15.433  1.00 60.86           C
ATOM    411  C4*   C B  21       8.100  21.598  16.461  1.00 40.86           C
ATOM    412  O4*   C B  21       9.478  21.902  16.263  1.00 36.88           O
ATOM    413  C3*   C B  21       7.766  22.045  17.879  1.00 53.80           C
ATOM    414  O3*   C B  21       7.036  21.041  18.611  1.00 79.04           O
ATOM    415  C2*   C B  21       9.123  22.414  18.469  1.00 48.43           C
ATOM    416  C1*   C B  21      10.107  21.743  17.523  1.00 36.51           C
ATOM    417  N1    C B  21      11.328  22.556  17.331  1.00 24.72           N
ATOM    418  C2    C B  21      12.534  21.939  17.329  1.00 30.96           C
ATOM    419  O2    C B  21      12.560  20.731  17.579  1.00 34.53           O
ATOM    420  N3    C B  21      13.639  22.639  17.035  1.00 31.69           N
ATOM    421  C4    C B  21      13.560  23.938  16.739  1.00 21.53           C
ATOM    422  N4    C B  21      14.685  24.628  16.404  1.00 23.72           N
ATOM    423  C5    C B  21      12.338  24.609  16.736  1.00 30.74           C
ATOM    424  C6    C B  21      11.193  23.878  17.035  1.00 27.58           C
ATOM    425  P     G B  22       6.509  21.324  20.099  1.00 56.50           P
ATOM    426  O1P   G B  22       5.387  20.397  20.396  1.00 50.81           O
ATOM    427  O2P   G B  22       6.235  22.774  20.306  1.00 53.84           O
ATOM    428  O5*   G B  22       7.767  20.924  20.993  1.00 66.30           O
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ATOM    429  C5*   G B  22       8.216  19.559  21.073  1.00 73.42           C
ATOM    430  C4*   G B  22       9.422  19.557  21.977  1.00 42.96           C
ATOM    431  O4*   G B  22      10.493  20.260  21.319  1.00 52.87           O
ATOM    432  C3*   G B  22       9.267  20.267  23.325  1.00 38.51           C
ATOM    433  O3*   G B  22      10.088  19.657  24.293  1.00 60.28           O
ATOM    434  C2*   G B  22       9.751  21.670  22.990  1.00 22.00           C
ATOM    435  C1*   G B  22      10.988  21.226  22.256  1.00 24.85           C
ATOM    436  N9    G B  22      11.599  22.357  21.543  1.00 25.91           N
ATOM    437  C8    G B  22      11.037  23.545  21.159  1.00 23.91           C
ATOM    438  N7    G B  22      11.921  24.362  20.566  1.00 39.18           N
ATOM    439  C5    G B  22      13.072  23.653  20.580  1.00 25.66           C
ATOM    440  C6    G B  22      14.370  24.003  20.102  1.00 28.34           C
ATOM    441  O6    G B  22      14.747  25.057  19.585  1.00 31.85           O
ATOM    442  N1    G B  22      15.268  22.983  20.308  1.00 25.22           N
ATOM    443  C2    G B  22      15.023  21.776  20.891  1.00 11.07           C
ATOM    444  N2    G B  22      16.066  20.914  21.038  1.00 25.92           N
ATOM    445  N3    G B  22      13.815  21.452  21.350  1.00 19.05           N
ATOM    446  C4    G B  22      12.902  22.429  21.151  1.00 23.69           C
ATOM    447  P     C B  23       9.477  18.627  25.340  1.00 55.93           P
ATOM    448  O1P   C B  23       8.767  17.534  24.627  1.00 45.14           O
ATOM    449  O2P   C B  23       8.670  19.409  26.312  1.00 41.61           O
ATOM    450  O5*   C B  23      10.807  18.067  26.034  1.00 59.70           O
ATOM    451  C5*   C B  23      11.688  17.170  25.310  1.00 63.13           C
ATOM    452  C4*   C B  23      13.115  17.573  25.593  1.00 27.86           C
ATOM    453  O4*   C B  23      13.284  18.804  24.893  1.00 50.51           O
ATOM    454  C3*   C B  23      13.441  17.879  27.059  1.00 46.45           C
ATOM    455  O3*   C B  23      14.341  16.938  27.677  1.00 57.21           O
ATOM    456  C2*   C B  23      13.928  19.322  27.025  1.00 68.01           C
ATOM    457  C1*   C B  23      14.312  19.508  25.568  1.00 32.05           C
ATOM    458  N1    C B  23      14.144  20.932  25.170  1.00 23.28           N
ATOM    459  C2    C B  23      15.199  21.595  24.630  1.00 20.62           C
ATOM    460  O2    C B  23      16.257  20.984  24.504  1.00 29.62           O
ATOM    461  N3    C B  23      15.067  22.877  24.257  1.00 39.00           N
ATOM    462  C4    C B  23      13.898  23.510  24.404  1.00 30.44           C
ATOM    463  N4    C B  23      13.771  24.813  24.018  1.00 34.66           N
ATOM    464  C5    C B  23      12.795  22.866  24.967  1.00 27.74           C
ATOM    465  C6    C B  23      12.935  21.540  25.359  1.00 24.58           C
ATOM    466  P     G B  24      14.658  17.064  29.247  1.00 53.70           P
ATOM    467  O1P   G B  24      14.863  15.717  29.825  1.00 61.79           O
ATOM    468  O2P   G B  24      13.633  17.912  29.920  1.00 36.06           O
ATOM    469  O5*   G B  24      16.033  17.880  29.284  1.00 34.06           O
ATOM    470  C5*   G B  24      17.243  17.320  28.742  1.00 46.57           C
ATOM    471  C4*   G B  24      18.208  18.464  28.758  1.00 50.89           C
ATOM    472  O4*   G B  24      17.716  19.428  27.829  1.00 32.02           O
ATOM    473  C3*   G B  24      18.230  19.236  30.058  1.00 30.38           C
ATOM    474  O3*   G B  24      18.978  18.583  31.084  1.00 61.06           O
ATOM    475  C2*   G B  24      18.885  20.519  29.578  1.00 53.33           C
ATOM    476  C1*   G B  24      18.276  20.693  28.188  1.00 35.03           C
ATOM    477  N9    G B  24      17.164  21.659  28.139  1.00 30.25           N
ATOM    478  C8    G B  24      15.874  21.536  28.580  1.00 30.86           C
ATOM    479  N7    G B  24      15.129  22.614  28.308  1.00 44.08           N
ATOM    480  C5    G B  24      15.990  23.436  27.673  1.00 16.87           C
ATOM    481  C6    G B  24      15.765  24.729  27.117  1.00 19.36           C
ATOM    482  O6    G B  24      14.719  25.373  27.067  1.00 33.30           O
ATOM    483  N1    G B  24      16.926  25.257  26.604  1.00 15.78           N
ATOM    484  C2    G B  24      18.157  24.666  26.579  1.00 11.92           C
ATOM    485  N2    G B  24      19.208  25.386  26.096  1.00 29.76           N
ATOM    486  N3    G B  24      18.350  23.438  27.053  1.00 21.95           N
ATOM    487  C4    G B  24      17.231  22.893  27.570  1.00 13.89           C
TER     488        G B  24
HETATM  489  O   HOH     25      19.736  30.706  18.656  1.00 51.86           O
HETATM  490  O   HOH     26      14.354  27.683  16.369  1.00 40.92           O
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HETATM  491  O   HOH    27       9.864  22.509   9.123  1.00 39.67           O
HETATM  492  O   HOH    28      19.526  19.144   7.481  1.00 51.15           O
HETATM  493  O   HOH    29      25.754  12.744  -1.835  1.00 51.80           O
HETATM  494  O   HOH    30       7.478  20.604  -9.000  1.00 44.82           O
HETATM  495  O   HOH    31      10.879  26.039  -8.906  1.00 47.07           O
HETATM  496  O   HOH    32      18.320  24.816  14.948  1.00 47.72           O
HETATM  497  O   HOH    33       9.012  24.586   7.009  1.00 43.42           O
HETATM  498  O   HOH    34      10.152  19.917  13.381  1.00 48.04           O
HETATM  499  O   HOH    35       7.764  21.397  11.075  1.00 41.41           O
HETATM  500  O   HOH    36       9.821  13.442   8.572  1.00 45.76           O
HETATM  501  O   HOH    37      13.239  14.428   2.049  1.00 55.54           O
HETATM  502  O   HOH    38       8.915  15.602  -3.388  1.00 50.97           O
HETATM  503  O   HOH    39      17.505  26.340 -10.581  1.00 51.90           O
HETATM  504  O   HOH    40      28.496  23.515  18.349  1.00 45.37           O
HETATM  505  O   HOH    41      11.346  24.175   4.920  1.00 45.03           O
HETATM  506  O   HOH    42      12.601  23.000  29.167  1.00 51.36           O
HETATM  507  O   HOH    43      10.440  25.542  24.443  1.00 56.79           O
HETATM  508  O   HOH    44      16.979  28.689  16.284  1.00 50.41           O
HETATM  509  O   HOH    45       4.794  22.966  13.368  1.00 45.95           O
HETATM  510  O   HOH    46       4.208  25.591  10.828  1.00 51.06           O
HETATM  511  O   HOH    47       6.362  24.374   9.188  1.00 51.85           O
HETATM  512  O   HOH    48       7.688  28.411   7.883  1.00 49.33           O
HETATM  513  O   HOH    49      18.379  17.074   4.809  1.00 50.72           O
HETATM  514  O   HOH    50       9.098  16.119   1.277  1.00 51.80           O
HETATM  515  O   HOH    51      26.464  23.826   1.396  1.00 53.21           O
HETATM  516  O   HOH    52      11.014  11.318  -2.909  1.00 51.36           O
HETATM  517  O   HOH    53       9.476  27.782  26.498  1.00 60.04           O
HETATM  518  O   HOH    54      16.488  29.195  19.861  1.00 54.92           O
HETATM  519  O   HOH    55      22.078  25.894  15.396  1.00 62.20           O
HETATM  520  O   HOH    56       5.522  27.411   9.017  1.00 62.36           O
HETATM  521  O   HOH    57      18.456  28.409   8.821  1.00 59.63           O
HETATM  522  O   HOH    58       7.133  14.448   4.647  1.00 57.15           O
HETATM  523  O   HOH    59      22.610  15.544   3.846  1.00 57.52           O
HETATM  524  O   HOH    60      24.407  13.162   2.229  1.00 52.30           O
HETATM  525  O   HOH    61       7.988  11.556  -2.976  1.00 59.14           O
HETATM  526  O   HOH    62      14.095  28.151  21.614  1.00 53.85           O
HETATM  527  O   HOH    63      14.213  27.722  18.905  1.00 57.29           O
HETATM  528  O   HOH    64      27.164  31.710  20.331  1.00 56.84           O
HETATM  529  O   HOH    65      15.295  11.873  12.209  1.00 57.34           O
HETATM  530  O   HOH    66      18.180  16.604   9.966  1.00 61.52           O
HETATM  531  O   HOH    67       6.216  17.035   1.672  1.00 62.91           O
HETATM  532  O   HOH    68      19.101  11.433   1.080  1.00 59.79           O
HETATM  533  O   HOH    69      12.607  10.967   0.261  1.00 60.87           O
HETATM  534  O   HOH    70       7.055  25.519  -2.053  1.00 55.96           O
HETATM  535  O   HOH    71      15.062  26.024  -0.766  1.00 56.35           O
HETATM  536  O   HOH    72      16.380   6.413  -4.784  1.00 59.07           O
HETATM  537  O   HOH    73      14.059   5.751  -6.198  1.00 56.68           O
HETATM  538  O   HOH    74      12.416  31.549  23.685  1.00 68.40           O
HETATM  539  O   HOH    75       9.613  17.039  29.793  1.00 63.48           O
HETATM  540  O   HOH    76      11.492  29.103  20.090  1.00 67.46           O
HETATM  541  O   HOH    77      14.220  29.189  20.392  1.00 48.22           O
HETATM  542  O   HOH    78       6.138  19.149  13.844  1.00 62.26           O
HETATM  543  O   HOH    79      17.315   9.638  13.392  1.00 65.70           O
HETATM  544  O   HOH    80      18.951  25.757  12.989  1.00 66.47           O
HETATM  545  O   HOH    81      20.460  18.861  12.664  1.00 63.00           O
HETATM  546  O   HOH    82       3.529  19.338  12.599  1.00 65.32           O
HETATM  547  O   HOH    83      25.276  15.890  -1.301  1.00 64.53           O
HETATM  548  O   HOH    84       3.788   7.844  -9.406  1.00 63.59           O
HETATM  549  O   HOH    85      12.989  29.901  -9.282  1.00 64.97           O
HETATM  550  O   HOH    86      17.510  30.569  18.702  1.00 61.79           O
HETATM  551  O   HOH    87      25.377  12.891  19.011  1.00 73.80           O
HETATM  552  O   HOH    88      13.610  15.742  18.593  1.00 69.48           O
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HETATM  553  O   HOH    89      18.012  32.598  15.262  1.00 67.52           O
HETATM  554  O   HOH    90       2.622  23.030  10.332  1.00 68.01           O
HETATM  555  O   HOH    91      19.701  22.518   9.511  1.00 70.25           O
HETATM  556  O   HOH    92       8.723  13.216   6.359  1.00 70.66           O
HETATM  557  O   HOH    93      19.727  29.488   6.155  1.00 69.43           O
HETATM  558  O   HOH    94      17.241  11.563   4.511  1.00 72.18           O
HETATM  559  O   HOH    95      26.545  19.404  -1.091  1.00 70.14           O
HETATM  560  O   HOH    96       9.697  18.315  14.885  1.00 69.10           O
HETATM  561  O   HOH    97      18.779  13.814  11.704  1.00 71.14           O
HETATM  562  O   HOH    98      14.292  25.159   2.287  1.00 68.44           O
HETATM  563  O   HOH    99      12.227  25.192 -10.299  1.00 70.46           O
HETATM  564  O   HOH   100      12.292  30.291  27.102  1.00 73.04           O
HETATM  565  O   HOH   101       9.396  27.092  16.993  1.00 72.98           O
HETATM  566  O   HOH   102      20.170  23.000  12.999  1.00 73.63           O
HETATM  567  O   HOH   103      19.987  21.691   6.802  1.00 72.66           O
HETATM  568  O   HOH   104      18.692  31.584   4.596  1.00 72.98           O
MASTER      254    0    0    0    0    0    0    6  566    2    0    2
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<meta name="GENERATOR" content="Microsoft FrontPage Express 2.0">
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</head>

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select carbon
color green
select phosphorus
color magenta
select chlorine
color [153,255,102]
select not hetero and not nucleic and not protein and not water and not ligand
wireframe 50
select all
background [255,255,255]
set hydrogen off
restrict not water
rotate z 180
set transparent on
select protein or dna or rna
backbone dash
color backbone [153, 153, 153]
define prev selected
select prev and (helix or sheet)
cartoon
select prev and not (helix or sheet)
trace 100
select prev
color cartoon [153, 153, 153]
select turn
color ribbons [255,255,0]
color backbone [255,255,0]
select helix
color ribbons [255,0,0]
color backbone [255,0,0]
select sheet
color ribbons [0,0,255]
color backbone [0,0,255]
select hetero and not water and not ligand
dots 300
select ligand
cpk
select (a,t,g,c,u,i)
trace on
wireframe on
select purine and a and not backbone
color red
select purine and g and not backbone
color green
select not protein and i and not backbone
color cyan
select pyrimidine and t and not backbone
```

```
color yellow
select not protein and u and not backbone
color magenta
select pyrimidine and c and not backbone
color blue
select (a,t,g,c,u,i) and *a and backbone
color trace green
select (a,t,g,c,u,i) and *b and backbone
color trace [255,0,255]
select (a,t,g,c,u,i) and *c and backbone
color trace [0,102,0]
select (a,t,g,c,u,i) and *d and backbone
color trace [255,0,102]
select all
move 0 180 0 0 0 0 0 0 15
move 180 180 0 0 0 0 0 0 15
move 0 180 180 0 0 0 0 0 15
show info
select protein or dna or rna
"></p>
</body>
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