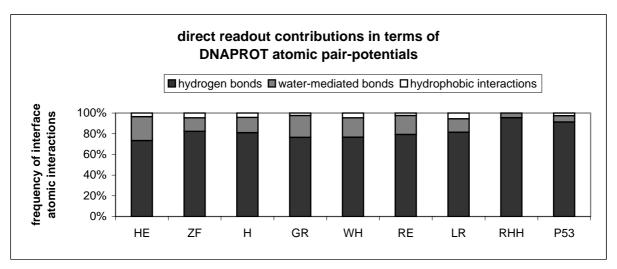
Supplementary Figure 1

summary of interface atomic scores (ONLYPOSITSCORES=1):

superfamily	Н	w	V
HE	0.73356722	0.23157362	0.03485916
ZF	0.82303562	0.13018411	0.04678027
Н	0.81088752	0.14630893	0.04280355
GR	0.7647404	0.21158003	0.02367956
WH	0.76642279	0.18728079	0.04629642
RE	0.79296197	0.1831407	0.02389733
LR	0.81452773	0.12967354	0.05579873
RHH	0.95531291	0.04468709	0
P53	0.9131538	0.06157813	0.02526808



Supplementary File 2

```
Sample output of DNAPROT program: the MunI restriction enzyme (PDB:1d02 B)
# parameters: dnaprot v3.01 -e 1 -W 0.01 -D 0.5 -t 1 -I 1d02 B.het.pdb -p
1d02 B.prot.pdb -d 1d02 B.dna.pdb
# strand1 (D) contains 10 bases
# strand2 (C) contains 10 bases
# duplex pair DG D0001 == DC C0010
# duplex pair DC D0002 == DG C0009
# duplex pair DC D0003 == DG C0008
\# duplex pair DA D0004 == DT C0007
\# duplex pair DA D0005 == DT C0006
# duplex pair DT D0006 == DA C0005
# duplex pair DT D0007 == DA C0004
# duplex pair DG D0008 == DC C0003
# duplex pair DG D0009 == DC C0002
# duplex pair DC D0010 == DG C0001
# DNA sequence complementary region:
GCCAATTGGC
CGGTTAACCG
# number of interface water molecules = 1
# Using Hbond matrix: HB50 ...
# Using water matrix: WM50 ...
# Using VdW matrix: VW50 ...
# generate_and_parse_DNAgeometry: running X3DNA in temporary directory ...
# Calculating protein-dna interface scores...
# Original PDB DNA sequence...
# Original interface contacts:
: w : LYS
          NZ B0045 <- 6.06 -> DC 02 D0010 : score 1.753
: H : ARG NE B0115 <- 2.77 -> DG 06 C0008 : score 3.212
: H : ARG NH2 B0115 <- 2.99 -> DG N7 C0008 : score 4.798
: H : ASN OD1 B0117 <- 2.80 -> DA N6 D0004 : score 4.58
: H : ASN OD1 B0117 <- 2.86 -> DA N6 D0005 : score 4.58
: H : ASN ND2 B0117 <- 3.19 -> DA N7 D0004 : score 4.58
: H : ARG NH1 B0121 <- 3.04 -> DA N7 C0005 : score 0.874
          CG B0102 <- 3.89 -> DT C7 C0006 : score 2.749
: V : GLN
seq orig PDB 0 gcCAATtggC
: indirect readout interface 0000000000
A | 31.00 11.00 28.00 29.00 36.00 31.00 28.00 27.00 16.00 20.00
   19.00 37.00 28.00 24.00 0.00 34.00 19.00 14.00 29.00 25.00
    32.00 32.00 9.00 14.00 26.00 0.00 21.00 28.00 29.00 27.00
T | 14.00 16.00 31.00 29.00 34.00 31.00 28.00 27.00 22.00 24.00
                            DNA helical kink
                            reported by
                            Deibert et al. (1999)
: H hydrogen bonds interface 0111110000
    24.00 5.00 0.00 95.00 96.00 17.00 24.00 24.00 24.00 24.00
     24.00 5.00 95.00 0.00 0.00 17.00 24.00 24.00 24.00 24.00
    24.00 5.00 0.00 1.00 0.00 20.00 24.00 24.00 24.00 24.00
    24.00 81.00 1.00 0.00 0.00 42.00 24.00 24.00 24.00 24.00
```

Supplementary File 3

Fri May 15 15:03:12 2009

# Fri May 15 15:03:12 2009				
SCOP superfamily	PDB_chain			
Homeodomain-like	1b72_A			
Homeodomain-like	1b8i_A			
Homeodomain-like	1b8i_B			
Homeodomain-like	1bl0_A			
Homeodomain-like	1fjl_C			
Homeodomain-like	1gdt_A			
Homeodomain-like	1h89_C			
Homeodomain-like	1h8a_C			
Homeodomain-like	1hlv_A			
Homeodomain-like	1ig7_A			
Homeodomain-like	1ign_A			
Homeodomain-like	1jgg_B			
Homeodomain-like	1jko_C			
Homeodomain-like	1jt0_C			
Homeodomain-like	1k78_A			
Homeodomain-like	1le8_A			
Homeodomain-like	1mnm_C			
Homeodomain-like	1nk3_P			
Homeodomain-like	1pdn_C			
Homeodomain-like	1puf_A			
Homeodomain-like	1pul_A 1puf_B			
Homeodomain-like	1qpi_B			
Homeodomain-like	1tc3_C			
Homeodomain-like	1w0t_B			
Homeodomain-like	1w0i_B 1w0u_B			
Homeodomain-like				
Homeodomain-like	1xpx_A			
Homeodomain-like	1yz8_P 1zq3_P			
Homeodomain-like				
Homeodomain-like	2glo_A 2h1k_B			
Homeodomain-like	2hdd_A			
Homeodomain-like	2hdd_A 2kdz_A			
Homeodomain-like				
Homeodomain-like	2qhb_A 2r5y_A			
Homeodomain-like				
Homeodomain-like	2yvh_C			
Homeodomain-like	3cmy_A 6pax_A			
	•			
Homeodomain-like	9ant_B			
Winged_helix	1awc_A			
Winged_helix	1bc8_C			
Winged_helix	1cf7_A			
Winged_helix	1cf7_B			
Winged_helix	1dp7_P			
Winged_helix	1dux_C			
Winged_helix	1f4k_B			
Winged_helix	1f5t_A			
Winged_helix	1h9t_B			
Winged_helix	1if1_A			
Winged_helix	1k78_F			
Winged_helix	1pp7_U			
Winged_helix	1pue_F			
Winged_helix	1rep_C			

Winged_helix	1sax_B
Winged_helix	1u8r B
Winged_helix	1xsd A
Winged_helix	1yo5_C
Winged_helix	1z9c A
_	-
Winged_helix	1zrf_A
Winged_helix	2c6y_A
Winged_helix	2e1c_A
Winged_helix	2hdc_A
Winged_helix	2irf_L
Winged_helix	2isz_B
Winged_helix	2nra_C
Winged_helix	208k_A
Winged_helix	2p5l_G
Winged_helix	2p7c_B
Winged_helix	2pi0_C
Winged_helix	2qby_A
Winged_helix	2uzk_C
Winged_helix	2ve9_C
Winged_helix	3bpy_A
Winged_helix	3co6_C
Winged_helix	3e6c_C
Winged_helix	3ere_D
Winged_helix	3g73_B
Glucocorticoid_recep	1a6y_A
Glucocorticoid_recep	1cit_A
Glucocorticoid_recept	1dsz_A
Glucocorticoid_recept	1dsz_B
Glucocorticoid_recept	1hcq_F
Glucocorticoid_recept	1kb2_A
Glucocorticoid_recept	1lat_B
Glucocorticoid_recept	1lo1_A
Glucocorticoid_recept	1r4i_B
Glucocorticoid_recept	1r4o_A
Glucocorticoid_recept	2a66_A
Glucocorticoid_recept	2c7a_A
Glucocorticoid_recept	2ff0_A
Glucocorticoid_recept	2han_A
Glucocorticoid_recept	2han_B
Glucocorticoid_recept	2kae_A
Glucocorticoid_recept	2nll_B
Glucocorticoid_recept	3cbb B
Glucocorticoid_recept	3dfx B
Glucocorticoid_recept	3e00 D
Glucocorticoid_recept	3g9m_A
Glucocorticoid_recept	3gat_A
·	_
p53-like	1a3q_B
p53-like	1a66_A
p53-like	1bf5_A
p53-like	1bvo_A
p53-like	1gji_B
p53-like	1h6f_B
p53-like	1h9d_C
p53-like	1imh_C
p53-like	1mnn_A
p53-like	1nfk_B

p53-like	1p7h_N
p53-like	1xbr_A
p53-like	2ac0_D
•	
p53-like	2v2t_A
p53-like	3brd_A
p53-like	3brg_C
p53-like	3exj_A
lambda_repressor-like	1efa A
lambda_repressor-like	1lmb 4
_ •	_
lambda_repressor-like	1per_R
lambda_repressor-like	1qpz_A
lambda_repressor-like	1rzr_A
lambda_repressor-like	1zs4_C
lambda_repressor-like	2o4a_A
lambda_repressor-like	2r1j_L
lambda_repressor-like	3bdn_A
lambda_repressor-like	3clc_D
•	
lambda_repressor-like	3cro_L
lambda_repressor-like	3dnv_B
Restriction_endonucle	1cl8_A
Restriction_endonucle	1d02_B
Restriction_endonucle	1dc1_A
Restriction_endonucle	1dfm B
Restriction_endonucle	1dmu_A
Restriction_endonucle	1fiu_D
Restriction_endonucle	1iaw_A
Restriction_endonucle	1sa3_A
Restriction_endonucle	1sx5_B
Restriction_endonucle	1wte_A
Restriction_endonucle	2aor A
Restriction endonucle	2gig_B
Restriction_endonucle	2p0j_A
Restriction_endonucle	3bam_A
	
Restriction_endonucle	3dvo_B
Restriction_endonucle	3pvi_A
C2H2_and_C2HC_zii	1a1h_A
C2H2_and_C2HC_zii	1f2i_J
C2H2_and_C2HC_zii	1g2d_C
C2H2_and_C2HC_zii	1g2f_C
C2H2_and_C2HC_zii	1llm_C
C2H2_and_C2HC_zii	1mey_C
C2H2 and C2HC zii	
	1tf6_A
C2H2_and_C2HC_zii	1ubd_C
C2H2_and_C2HC_zii	1yuj_A
C2H2_and_C2HC_zii	2drp_A
C2H2_and_C2HC_zii	2gli_A
C2H2_and_C2HC_zii	2i13_A
C2H2_and_C2HC_zii	2prt_A
Homing_endonucleas	1lwt_A
Homing_endonucleas	
	1mow_D
Homing_endonucleas	1t9i_A
Homing_endonucleas	2ex5_A
Homing_endonucleas	2fld_A
Homing_endonucleas	2qoj_Z
Homing_endonucleas	2vbl_A
Homing_endonucleas	2vbl_B
0	_

Homing_endonucleas	2vs7_D
Homing_endonucleas	3c0w_A
Homing_endonucleas	3e54_B
Ribbon-helix-helix	1b01_B
Ribbon-helix-helix	1bdt_A
Ribbon-helix-helix	1mjo_C
Ribbon-helix-helix	2bnw_C
Ribbon-helix-helix	2bsq_G
Ribbon-helix-helix	2hzv_F
Ribbon-helix-helix	2rbf_A
Ribbon-helix-helix	3fmt_A

Homeodomain-like Н WH Winged_helix Glucocorticoid_receptor-like GR P53 p53-like lambda_repressor-like LR Restriction_endonuclease-like RE C2H2_and_C2HC_zinc_fingers ZF Homing_endonucleases ΗE Ribbon-helix-helix RHH

total complexes 175

complexes skipped for containing two DNA-binding domains from different superfamilies:

1au7_B:lambda_repressor-like_DNA-binding_domains;Homeodomain-like; 1e3o_C:lambda_repressor-like_DNA-binding_domains;Homeodomain-like; 1ic8_A:lambda_repressor-like_DNA-binding_domains;Homeodomain-like; 2d5v_B:lambda_repressor-like_DNA-binding_domains;Homeodomain-like; 2h8r_A:lambda_repressor-like_DNA-binding_domains;Homeodomain-like;

 $1 fok_A: Restriction_endonuclease-like; "Winged_helix"_DNA-binding_domain;$

2061_A:p53-like_transcription_factors;"Winged_helix"_DNA-binding_domain;