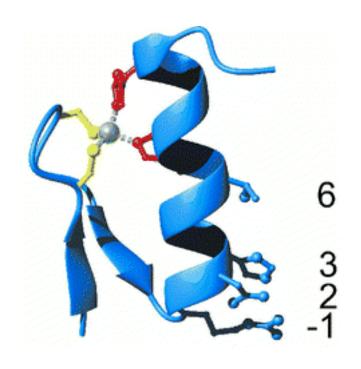
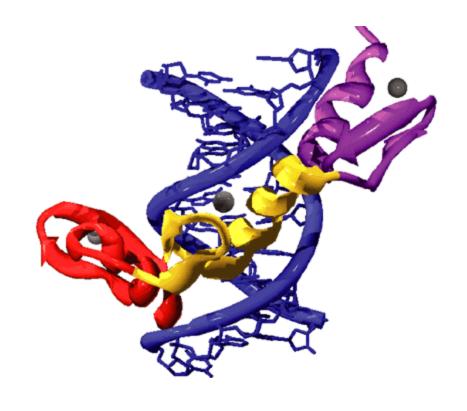
Zinc Finger Proteins





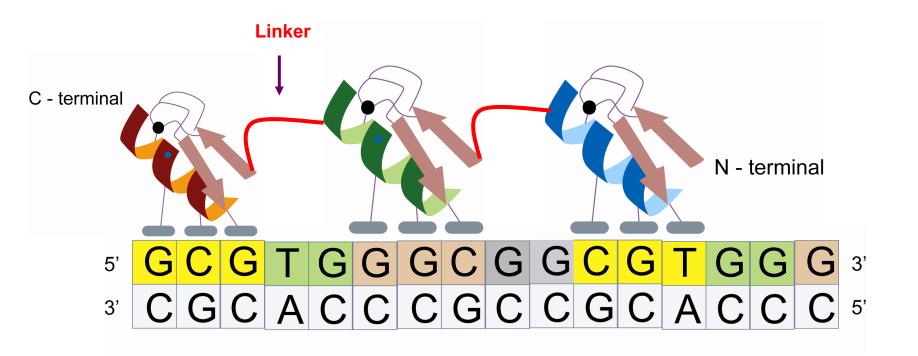
One zinc finger

(each ZF binds to 3 bp DNA)

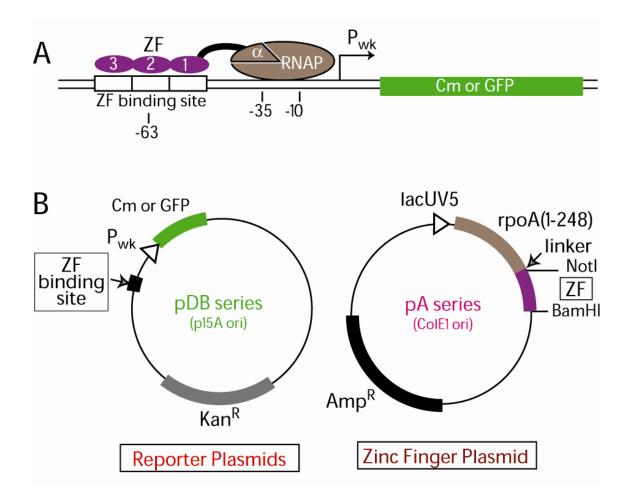
Three zinc fingers bound to DNA

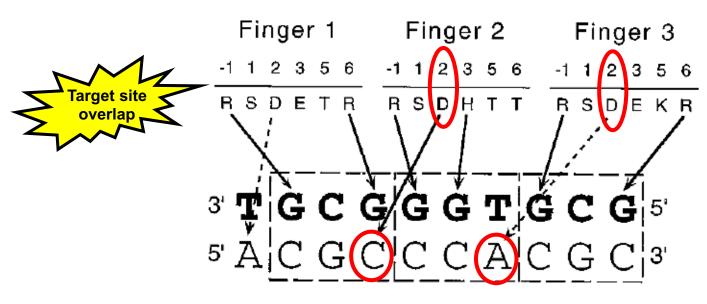
(three ZFs binds to 9 bp DNA)

Binding of longer DNA sequences



By stringing several of these zinc fingers in tandem, we can create multiple zinc finger protein that can bind to any sequence of interest





Key base contacts in ZF-DNA complex

Consensus framework residues

-1	1	2	3	4	5	6
A	S	G	A	L	I	A
D			D		T	E
Н			Н			K
N			N			N
Q			S			Q
R			T			R
T			٧			T
						V

