Guardian of the genome Proteins that block CDK activity Actin and myosin Main kinases involved in DNA repair Phosphorylation of lamins Kinases that regulate cell cycle Division of chromosomes Centrosomes and microtubules Epigenetic pattern inheritance Enlargement of extracellular matrix Multiplication of cell number Mitosis promoting factor Binds E2F Division of cytoplasm Enlargement of cell size **DNA** replication





Complex	Cyclin	Cdk	
	cyclin D	Cdk4, Cdk6	
G1/S-Cdk			
	cyclin A		M-Cdk
	cyclin B	Cdk1 (Cdc2)	
	Complex G1/S-Cdk	ComplexCyclincyclin DG1/S-Cdkcyclin Acyclin B	ComplexCyclinCdkcyclin DCdk4, Cdk6G1/S-Cdkcyclin Acyclin BCdk1 (Cdc2)













Chromosome number in human cell during mitosis



Chromosome number in human cell during meiosis



