MISMATCH REPAIR Prokaryotic type Eukaryotic type Mispair DNA Mispair DNA ____ 3' Template strand Daughter strand nick Mismatch recognition Mismatch recognition Major components in cells $MutL\alpha$ MutSα СНЗ СНЗ MutS MutLα MutL K08736 MutSβ Incision MLH1/MLH3 Colorectal cancer K03573 MutSβ PCNA СӉз RFC MutS MutL MutS MutL homolog homolog Excision Helicase II Excision Exonucleases СНЗ Helicase II Exonuclease Exonuclease DNA re-synthesis DNA re-synthesis SSB CH3 Ligation Ligation DNA polymerase III holoenzyme DNA polymerase δ СНз Lig I СНЗ СНз (Escherichia coli) (Human) 03430 1/20/15 (c) Kanehisa Laboratories