MISMATCH REPAIR Prokaryotic type Eukaryotic type Mispair DNA Mispair DNA _____ 3' Template strand Daughter strand nick Mismatch recognition Mismatch recognition P9301_02381. Major components in cells K10858 K08734 K03572 K10754.. $MutL\alpha$ K08737 K08735 MutSα СНЗ СНЗ MutS K08734 K10858 MutLα MutL K08736 MutSβ Incision K08739 K08734 MLH1/MLH3 Colorectal cancer K03573 K08735 MutSβ PCNA СНЗ RFC MutS MutL MutS homolog homolog Helicase II Excision Excision Exonucleases K10746 СНЗ Helicase II Exonuclease Exonuclease DNA re-synthesis DNA re-synthesis P9301_18151 K02327.. K07466... SSB CH3 Ligation Ligation DNA polymerase III holoenzyme DNA polymerase δ СҢз 3' Lig I СНЗ СНз (Escherichia coli) (Human) 03430 1/20/15 (c) Kanehisa Laboratories