trans co-selection network from discovery data trans co-selection network from validation data Gene functional categories (a & b) Fatty acid biosynthesis Adaptation Amino acid biosynthesis Laterally acquired element Macromolecule biosynthesis/modification Cell envelope Other regulators Central/Intermediary metabolism Chemotaxis and mobility Protection responses Regulators families Transport/ Binding proteins Hypothetical proteins Conserved hypothetical proteins Small molecules degradation Putative assignments BPSL1661 Co-selection pairs (c - e) Links detected in discovery data alone Links detected in validation data alone Links co-detected in discovery and validation data genes and ncRNAs linked to *BPSL1661* and upregulated during nutrient deprivation genes and ncRNAs linked to BPSL1661 and genes and ncRNAs linked to BPSL1661 alone downregulated during nutrient deprivation