## CIRCADIAN RHYTHM MAPK signaling pathway Circadian entrainment ု**ာ** ငရ<sup>2+</sup> +p CREB/MAPK signaling pathway Extracellular signals Ocamp K03868.. K02633 K03362 DNA +u 0 K10269 DNA **+**p K03729... 0 DNA Ubiquitin mediated proteolysis 0 K03728 DNA Degradation DNA **ODNA** K02296 K02633 K02223... DNA -O-Clock output / rhythmic biological processes CCG04710 11/5/12 (c) Kanehisa Laboratories