Title: MAPK Cascade Last modified: 5/1/2013 Organism: Gallus gallus Gq Gi **Gb** and **Gg** RapGAPII PLCB3 GTP RASA3 **HRAS** SIPA1 Activated Rap1GAP NRAS **RRAS KRAS** GDP MAP3K1 RAF1 MAP3K2 **ARAF** MAP3K3 **BRAF** MAP3K12 MAP2K1 MAP2K2 **Stress Activated Pathways** p38 MAPK Pathway MAP2K7 MAP2K6 **МАРКЗ** MAPK1 MAP2K4 MAPK14 MAPK12 MBP CJMB04\_8f1 MAPK10 MAP2 MAP2K4 ELK1 **Nucleus Growth and Mitogenesis** JUN **Apoptosis**