OG33\_1 ★Gene duplication event -Detarioideae\_ARF -Papilionoideae\_VISA Detarioideae\_ARF Detarioideae\_ARF -Detarioideae\_ARF -Detarioideae\_ARF Detarioideae\_SIGL Detarioideae\_ADG Detarioideae\_AKD -Detarioideae\_ADG -Papilionoideae\_AKY Detarioideae\_partial Detarioideae\_partial Caesalpinioideae\_partial Cercidoideae\_ACW -Dialioideae\_AHK Cercidoideae\_ACW Cercidoideae\_BAVA Caesalpinioideae\_ATR ·Caesalpinioideae\_partial Caesalpinioideae\_partial Dialioideae\_partial Cercidoideae\_BAVA -Detarioideae\_ARF Cercidoideae\_BAVA Cercidoideae\_AFB Cercidoideae\_partial Cercidoideae\_AFB Caesalpinioideae\_AOX -Papilionoideae\_LAPU Caesalpinioideae\_AEV Cercidoideae\_partial Cercidoideae\_CECA Cercidoideae\_CECA ·Cercidoideae\_partial Cercidoideae\_ACX -Papilionoideae\_AFM Caesalpinioideae\_AEV Papilionoideae\_AFM Papilionoideae\_partial Papilionoideae\_AER -Papilionoideae\_partial Caesalpinioideae\_partial Dialioideae\_partial -Detarioideae\_ASV Papilionoideae\_AHE Papilionoideae\_partial -Papilionoideae\_ABPR Papilionoideae ABPR -Papilionoideae\_AFP -Papilionoideae\_partial Papilionoideae\_AHC Papilionoideae\_partial -Papilionoideae\_partial ·Papilionoideae\_ADE Dialioideae\_AHK Caesalpinioideae\_APE -Papilionoideae\_STJA Papilionoideae\_STJA Papilionoideae\_STJA Papilionoideae\_partial Papilionoideae\_AFM -Papilionoideae\_partial Papilionoideae\_AKY Papilionoideae\_partial Dialioideae\_partial Detarioideae\_ASV -Papilionoideae\_AMED Detarioideae\_ASV -Detarioideae\_ARF -Detarioideae\_AKD Dialioideae\_AUO Caesalpinioideae\_SETO Papilionoideae partial Papilionoideae\_partial -Detarioideae\_partial Caesalpinioideae\_partial -Papilionoideae\_partial -Papilionoideae AHC Papilionoideae\_partial -Fagales\_QURU Fagales\_QURU -Fagales\_QURU -Rosales -Fagales\_QURU -Papilionoideae\_AWG Fagales\_QURU Fagales\_QURU -Fagales\_QURU -Fagales\_BEPL Fagales\_QURU ·Caesalpinioideae\_AJD -Papilionoideae\_MEAL -Papilionoideae\_MEPO -Papilionoideae\_AOI -Papilionoideae\_partial -Papilionoideae\_partial Papilionoideae\_partial -Papilionoideae\_AKG -Papilionoideae\_LOJA Papilionoideae\_partial -Papilionoideae\_LUAL Papilionoideae\_AER -Papilionoideae\_partial -Papilionoideae\_partial -Papilionoideae\_partial Caesalpinioideae\_partial -Papilionoideae\_partial -Fagales\_QURU -Myrtales -Ericales -Dialioideae\_AUO -Vitales Vitales **Vitales** ·Vitales Ranunculales -Proteales -Buxales -Proteales -Trochodendrales Trochodendrales -Trochodendrales -Trochodendrales Proteales -Trochodendrales **Trochodendrales** ·Caesalpinioideae\_partial -Dialioideae\_AUO -Caesalpinioideae\_partial -Papilionoideae\_partial -Detarioideae\_partial -Cercidoideae\_CECA *-Quillajaceae* -Buxales -Trochodendrales -Proteales -Proteales -Myrtales -Proteales Proteales -Proteales -Caesalpinioideae\_ENPH Ranunculales Ranunculales Ranunculales -Trochodendrales -Buxales -Caesalpinioideae\_partial -Papilionoideae\_partial -Caesalpinioideae\_partial -Cercidoideae\_partial Caesalpinioideae\_AWC -Detarioideae\_SIGL -Detarioideae\_partial Dialioideae\_partial -Detarioideae\_ARF -Myrtales -Myrtales -Fagales\_partial Polygalaceae Solanales : -Rosales Saxifragales -Vitales 100 -Ericales -Vitales Fagales\_partial -Myrtales —Proteales -Caesalpinioideae\_partial -Papilionoideae\_AFP Papilionoideae\_partial -Papilionoideae\_LOJA Papilionoideae\_partial -Papilionoideae\_ALG Papilionoideae\_AOI Papilionoideae\_partial Papilionoideae\_partial Papilionoideae\_AER -Papilionoideae\_partial ·Papilionoideae\_AWG Papilionoideae\_STJA -Cercidoideae\_partial -Detarioideae\_ASV Dialioideae\_AHK Caesalpinioideae\_partial Dialioideae\_partial -Detarioideae\_partial -Detarioideae\_ASV Cercidoideae\_CECH -Papilionoideae\_AWG -Papilionoideae\_STJA Cercidoideae\_BAVA -Detarioideae\_partial Fagales\_QURU -Cucurbitales -Ericales ·Caesalpinioideae\_APE Myrtales Fagales\_partial -Proteales -Proteales -Caesalpinioideae\_APE **Trochodendrales** -Buxales -Caesalpinioideae\_APE -Proteales -Trochodendrales Papilionoideae TRPR -Papilionoideae\_partial -Papilionoideae\_TRPR Papilionoideae\_partial Papilionoideae\_partial -Papilionoideae\_partial -Papilionoideae\_AOI -Papilionoideae\_AOI ·Papilionoideae\_partial Papilionoideae LOJA -Papilionoideae\_partial -Papilionoideae\_AFP -Papilionoideae\_partial -Papilionoideae\_partial Papilionoideae\_AOD Papilionoideae\_partial -Papilionoideae\_partial -Papilionoideae\_AKY Cercidoideae\_ACW Detarioideae\_AFV -Papilionoideae\_AMNA Papilionoideae\_AMNA -Papilionoideae\_partial Papilionoideae\_AMNA -Papilionoideae\_partial -Dialioideae\_ALV -Papilionoideae\_AOI Papilionoideae\_AOI Papilionoideae\_AVW Papilionoideae\_ADE -Papilionoideae\_AOD -Detarioideae\_ASV ·Dialioideae\_ALV -Papilionoideae\_DAOD Cercidoideae\_ACW Cercidoideae\_ACW Cercidoideae\_partial Cercidoideae\_AFB -Papilionoideae\_partial Caesalpinioideae\_partial Cercidoideae\_AAU ·Dialioideae\_AUO -Buxales Caesalpinioideae\_AEV Cercidoideae partial ·Caesalpinioideae\_AJD -Papilionoideae\_DAOD ·Caesalpinioideae\_AJD -Caesalpinioideae\_AJD Caesalpinioideae\_partial Caesalpinioideae partial -Caesalpinioideae\_ATR -Caesalpinioideae\_ATR -Caesalpinioideae\_partial Dialioideae\_partial -Papilionoideae\_AWG -Papilionoideae\_AWG Papilionoideae\_AWG Papilionoideae\_partial -Papilionoideae\_partial Papilionoideae\_partial -Detarioideae\_partial -Dialioideae\_partial -Papilionoideae\_partial Caesalpinioideae CHFA -Papilionoideae\_ADE -Caesalpinioideae\_CHFA Caesalpinioideae\_partial Caesalpinioideae\_APE -Caesalpinioideae\_partial -Cercidoideae\_partial -Dialioideae\_AUO -Ericales -Myrtales ·Cercidoideae\_partial -Cercidoideae\_ACX ·Papilionoideae\_AFF Cercidoideae\_partial -Dialioideae\_AUO -Cercidoideae\_CECA -Detarioideae\_ASV -Detarioideae\_ASV -Detarioideae\_partial -Papilionoideae\_AVT -Detarioideae\_partial -Dialioideae\_ALV —Papilionoideae\_AER -Ericales Fagales\_QURU Fagales\_QURU -Fagales\_QURU -Fagales\_QURU Fagales\_QURU Fagales\_QURU Fagales\_QURU 94 -Rosales -Myrtales -Polygalaceae ·Fagales\_QURU -Myrtales Papilionoideae\_TRPR Solanales Ericales . -Ericales -Fagales\_BEPL -Cercidoideae\_ACW Ranunculales -Proteales -Trochodendrales Caesalpinioideae\_partial Papilionoideae\_partial Detarioideae\_partial -Papilionoideae\_AFM -Cucurbitales -Myrtales Fagales\_BEPL -Papilionoideae\_AHE Fagales\_QURU -Buxales -Papilionoideae\_MEPO Solanales -Solanales Solanales Solanales ·Solanales -Solanales Solanales -Ericales -Brassicales -Saxifragales Caesalpinioideae\_PRCI Rosales -Rosales -Rosales -Rosales -Rosales -Rosales ·Vitales <del>-</del>Rosales -Saxifragales -Fagales\_partial -Rosales -Myrtales -Quillajaceae -Fagales\_QURU -Fagales\_QURU -Fagales\_QURU -Fagales\_QURU -Quillajaceae -Ranunculales