## CLF pHMM (12 protein sequences) KS pHMM (12 protein sequences) HMMER3 pHMM scores HMMER3 pHMM scores 900 900 8 200 200 TypeII KS Type I PKS Type I PKS FabH TypeII CLF FabF Aurachin TypeII CLF FabF TypeII KS FabH Aurachin ACP pHMM (12 protein sequences) AT pHMM (7 protein sequences) 200 900 HMMER3 pHMM scores HMMER3 pHMM scores 8 400 100 200 50 8 Ecoli FAS ACP TypeII ACP TypeI ACP TypeII AT TypeI AT FabD Aurachin KSIII pHMM (10 protein sequences) KR pHMM (16 protein sequences) 900 **HMMER3 pHMM scores** HMMER3 pHMM scores 300 400 200 100 TypeII KS TypeII CLF TypeII KR FabG Typell KSIII FabH Typel KS Typel KR chalcone Cyclase\_ABD pHMM (3 protein sequences) Cyclase\_SRPBCC pHMM (17 protein sequences) 300 300 HMMER3 pHMM scores HMMER3 pHMM scores 8 200 200 100 100 CyclaseSRPBCC CyclaseABD CvclaseSRPBCC CyclaseABD Cyclase\_arylformamidase Cyclase\_polyket\_Tcml Cyclase\_arylformamidase Cyclase\_polyket\_Tcml Cyclase\_arylformamidase pHMM (3 protein sequences) Cyclase\_polyket\_Tcml pHMM (6 protein sequences) 300 9 **HMMER3** pHMM scores HMMER3 pHMM scores 400 200 100 200 CyclaseSRPBCC CyclaseABD CvclaseABD Cyclase arylformamidase CvclaseSRPBCC Cyclase\_polyket\_Tcml Cyclase\_polyket\_Tcml Cyclase\_arylformamidase