## CLF pHMM (12 protein sequences) KS pHMM (12 protein sequences) HMMER3 pHMM scores HMMER3 pHMM scores 900 900 8 200 200 0 8 TypeII KS Type I PKS TypeII CLF FabH TypeII CLF TypeII KS Type I PKS FabF Aurachin FabF Aurachin FabH ACP pHMM (12 protein sequences) AT pHMM (7 protein sequences) 200 009 HMMER3 pHMM scores HMMER3 pHMM scores 8 400 100 200 20 8 TypeII ACP Ecoli ACP TypeI ACP TypeI AT TypeII AT FabD Aurachin KSIII pHMM (10 protein sequences) KR pHMM (16 protein sequences) 900 HMMER3 pHMM scores HMMER3 pHMM scores 0 300 400 8 200 100 TypeII CLF Typel KS Typel KR Typell KSIII TypeIII KS TypeII KS TypeII KR FabG Cyclase\_ABD pHMM (3 protein sequences) Cyclase\_SRPBCC pHMM (10 protein sequences) 300 900 HMMER3 pHMM scores HMMER3 pHMM scores 8 400 200 200 100 0 CyclaseABD CyclaseSRPBCC CvclaseSRPBCC cupin Cyclase\_polyket CyclaseABD Cyclase\_polyket Cyclase Cyclase Cyclase pHMM (3 protein sequences) Cyclase\_polyket pHMM (6 protein sequences) 9 300 **HMMER3** pHMM scores HMMER3 pHMM scores 200 400 100 200 Cyclase CyclaseSRPBCC Cyclase\_polyket pseudomonas CvclaseABD Cyclase\_polyket saccharothrix CvclaseABD CvclaseSRPBCC Cyclase