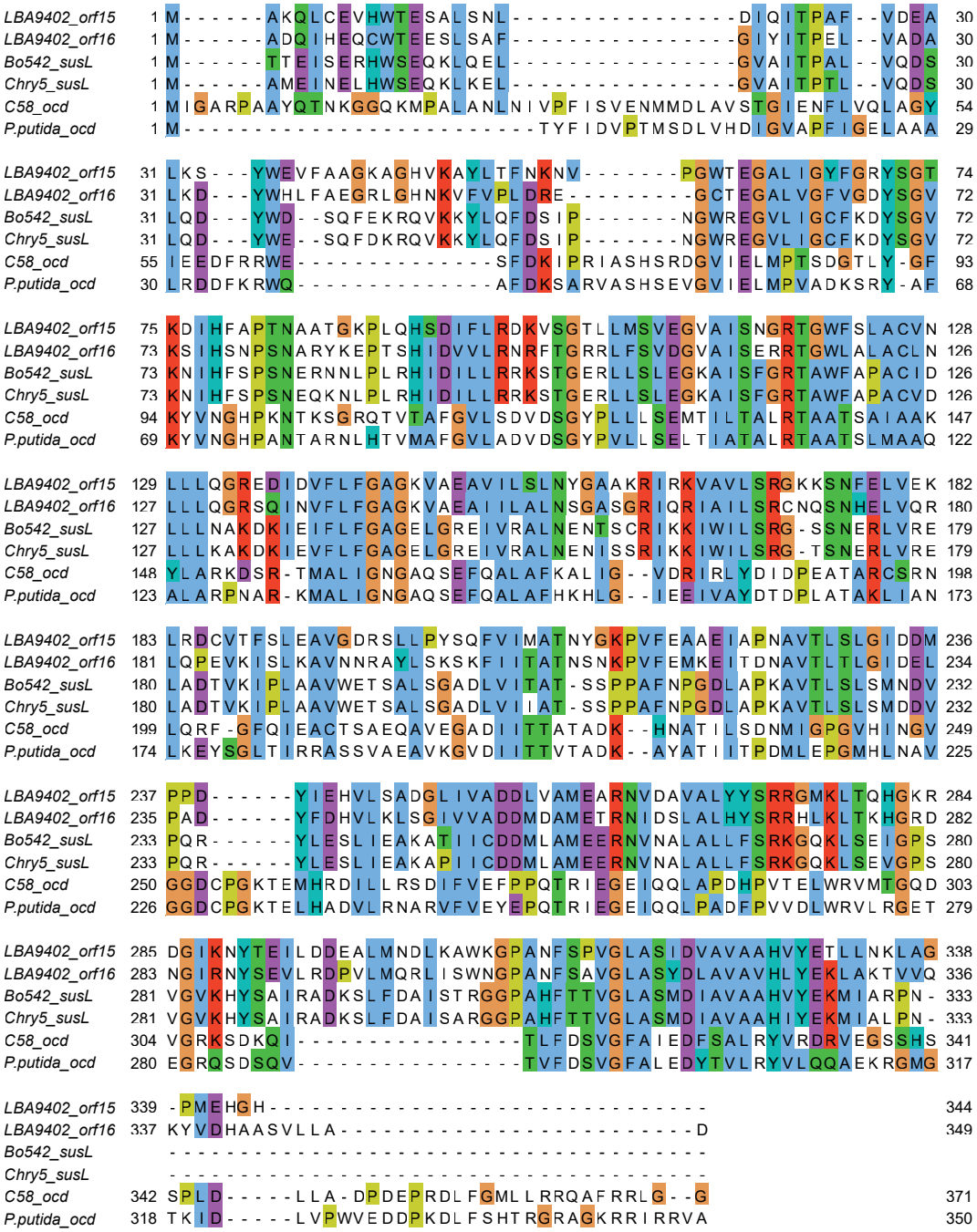
LBA9402_orf15 1 M------AKQLCEVHWTESALSNL----------DIQITPAF--VDEA 30
LBA9402_orf16 1 M------ADQIHEQCWTEESLSAF----------GIYITPEL--VADA 30
Bo542_susL 1 M------TTEISERHWSEQKLQEL----------GVAITPAL--VQDS 30
Chry5_susL 1 M------AMEINELHWSEQKLKEL----------GVAITPTL--VQDS 30
C58_ocd 1 MIGARPAAYQTNKGGQKMPALANLNIVPFISVENMMDLAVSTGIENFLVQLAGY 54
P.putida_ocd 1 M----------TYFIDVPTMSDLVHDIGVAPFIGELAAA 29
LBA9402_orf15 31 LKS---YWEVFAAGKAGHVKAYLTFNKNV-------PGWTEGALIGYFGRYSGT 74
LBA9402_orf16 31 LKD---YWHLFAEGRLGHNKVFVPLDRE---------GCTEGALVGFVGDYSGV 72
Bo542_susL 31 LQD---YWD--SQFEKRQVKKYLQFDSIP-------NGWREGVLIGCFKDYSGV 72
Chry5_susL 31 LQD---YWE--SQFDKRQVKKYLQFDSIP-------NGWREGVLIGCFKDYSGV 72
C58_ocd 55 IEEDFRRWE----------SFDKIPRIASHSRDGVIELMPTSDGTLY-GF 93
P.putida_ocd 30 LRDDFKRWQ----------AFDKSARVASHSEVGVIELMPVADKSRY-AF 68
LBA9402_orf15 75 KDIHFAPTNAATGKPLQHSDIFLRDKVSGTLLMSVEGVAISNGRTGWFSLACVN 128
LBA9402_orf16 73 KSIHSNPSNARYKEPTSHIDVVLRNRFTGRRLFSVDGVAISERRTGWLALACLN 126
Bo542_susL 73 KNIHFSPSNERNNLPLRHIDILLRRKSTGERLLSLEGKAISFGRTAWFAPACID 126
Chry5_susL 73 KNIHFSPSNEQKNLPLRHIDILLRRKSTGERLLSLEGKAISFGRTAWFAPACVD 126
C58_ocd 94 KYVNGHPKNTKSGRQTVTAFGVLSDVDSGYPLLLSEMTILTALRTAATSAIAAK 147
P.putida_ocd 69 KYVNGHPANTARNLHTVMAFGVLADVDSGYPVLLSELTIATALRTAATSLMAAQ 122
LBA9402_orf15 129 LLLQGREDIDVFLFGAGKVAEAVILSLNYGAAKRIRKVAVLSRGKKSNFELVEK 182
LBA9402_orf16 127 LLLQGRSQINVFLFGAGKVAEAIILALNSGASGRIQRIAILSRCNQSNHELVQR 180
Bo542_susL 127 LLLNAKDKIEIFLFGAGELGREIVRALNENTSCRIKKIWILSRG-SSNERLVRE 179
Chry5_susL 127 LLLKAKDKIEVFLFGAGELGREIVRALNENISSRIKKIWILSRG-TSNERLVRE 179
C58_ocd 148 YLARKDSR-TMALIGNGAQSEFQALAFKALIG--VDRIRLYDIDPEATARCSRN 198
P.putida_ocd 123 ALARPNAR-KMALIGNGAQSEFQALAFHKHLG--IEEIVAYDTDPLATAKLIAN 173
LBA9402_orf15 183 LRDCVTFSLEAVGDRSLLPYSQFVIMATNYGKPVFEAAEIAPNAVTLSLGIDDM 236
LBA9402_orf16 181 LQPEVKISLKAVNNRAYLSKSKFIITATNSNKPVFEMKEITDNAVTLTLGIDEL 234
Bo542_susL 180 LADTVKIPLAAVWETSALSGADLVITAT-SSPPAFNPGDLAPKAVTLSLSMNDV 232
Chry5_susL 180 LADTVKIPLAAVWETSALSGADLVIIAT-SSPPAFNPGDLAPKAVTLSLSMDDV 232
C58_ocd 199 LQRF-GFQIEACTSAEQAVEGADIITTATADK--HNATILSDNMIGPGVHINGV 249
P.putida_ocd 174 LKEYSGLTIRRASSVAEAVKGVDIITTVTADK--AYATIITPDMLEPGMHLNAV 225
LBA9402_orf15 237 PPD------YIEHVLSADGLIVADDLVAMEARNVDAVALYYSRRGMKLTQHGKR 284
LBA9402_orf16 235 PAD------YFDHVLKLSGIVVADDMDAMETRNIDSLALHYSRRHLKLTKHGRD 282
Bo542_susL 233 PQR------YLESLIEAKATIICDDMLAMEERNVNALALLFSRKGQKLSEIGPS 280
Chry5_susL 233 PQR------YLESLIEAKAPIICDDMLAMEERNVNALALLFSRKGQKLSEVGPS 280
C58_ocd 250 GGDCPGKTEMHRDILLRSDIFVEFPPQTRIEGEIQQLAPDHPVTELWRVMTGQD 303
P.putida_ocd 226 GGDCPGKTELHADVLRNARVFVEYEPQTRIEGEIQQLPADFPVVDLWRVLRGET 279
LBA9402_orf15 285 DGIKNYTEILDDEALMNDLKAWKGPANFSPVGLASIDVAVAAHVYETLLNKLAG 338
LBA9402_orf16 283 NGIRNYSEVLRDPVLMQRLISWNGPANFSAVGLASYDLAVAVHLYEKLAKTVVQ 336
Bo542_susL 281 VGVKHYSAIRADKSLFDAISTRGGPAHFTTVGLASMDIAVAAHVYEKMIARPN- 333
Chry5_susL 281 VGVKHYSAIRADKSLFDAISARGGPAHFTTVGLASMDIAVAAHIYEKMIALPN- 333
C58_ocd 304 VGRKSDKQI----------TLFDSVGFAIEDFSALRYVRDRVEGSSHS 341
P.putida_ocd 280 EGRQSDSQV----------TVFDSVGFALEDYTVLRYVLQQAEKRGMG 317
LBA9402_orf15 339 -PMEHGH---------- 344
LBA9402_orf16 337 KYVDHAASVLLA----------D 349
Bo542_susL ----------
Chry5_susL ----------
C58_ocd 342 SPLD-----LLA-DPDEPRDLFGMLLRRQAFRRLG--G 371
P.putida_ocd 318 TKID-----LVPWVEDDPKDLFSHTRGRAGKRRIRRVA 350

Figure 4