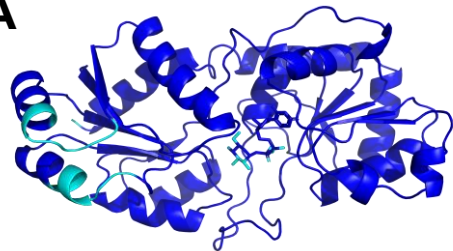
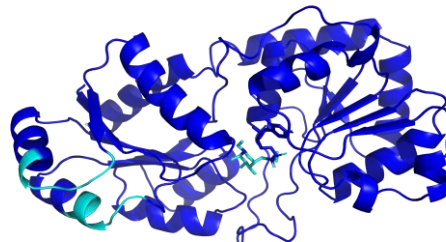
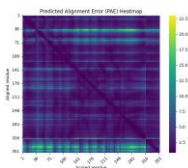
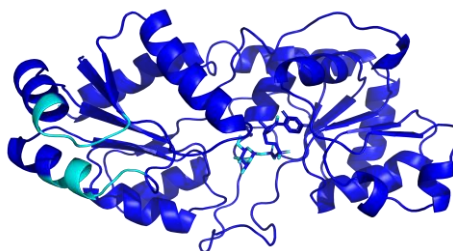
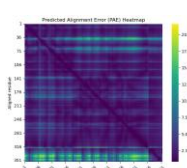


A

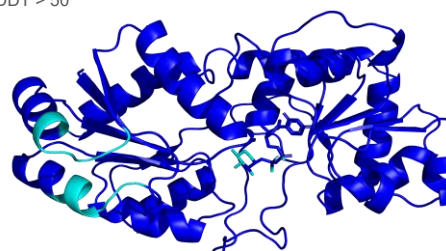
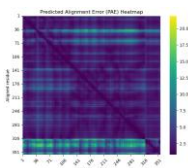
CgeB-UDP-Glucose
ipTM = 0.94



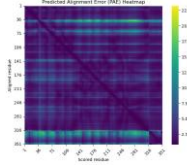
CgeB-UDP-Galactose
ipTM = 0.94



CgeB-UDP-GlcNAc
ipTM = 0.93



CgeB-UDP-Xylose
ipTM = 0.95



■ pLDDT > 90
■ 90 > pLDDT > 70
■ 70 > pLDDT > 50
■ pLDDT > 50

B

<i>B. subtilis</i>	1	MKVLVYIQSGYGGIYSYFDRWIECFQNTHTHEYMIADKPE--AESLMKIEAFQDPFTLMVMGDRVPHDWITWLKGGKDIPVYVWLT	82
<i>B. amylolique</i>	1	MNVLYIRSGYKGIYTYFDRWIEEGFLQSSVRFVSEFE--EDTIRSIRAFKPDISLMTGDRIPSEWLQWLKTEQIPVYLWMT	82
<i>B. atrophaeus</i>	1	MNVLYIRSGYKGIYSYFDRWIEEGFLHSPIRLLSSLDL--AQARSISKSEFPDFAVIMVGDRVSEWITWLKIEGIPVYVWLT	82
<i>B. gaemokensi</i>	1	MKLLYITSGYLKGIYDYLQDSIQKALTDKDFEWIAVQWPDIKELDSIVTSFQPDIVFTLLGNHPIPKTTOYFKKNIKLAVWLT	84
<i>B. pseudomyco</i>	1	MKLLYITSGYLGIIYDYLQDSIKTALSNDGYKWTCTFHPSEPIENIRSIVTTFQPDQVVLITILGDNLSIQATQYFKENGIIQLACWMT	84
<i>B. spizizenii</i>	1	MKVLVYIQSGYGGIYSYFDRWIECFRITHTEYMSADIPE--AESLVKIEAFQAFALMMVGDAVPHDWITWLKGGKIPVYVWLT	82
<i>B. thuringien</i>	1	MKLLYITSGYSKVIYQYLDQSIQSTLIDQNFELWTVRPELLEQLDFITATFHPDIVFTLLGNNLPQKATHYFKKRNIKLAVWLT	84
<i>B. toyonensis</i>	1	MKLLYITSGYSKVIYQYLDQSIQETLIDQNFELAVQPSELIIQLDFITTTTTHPDIVFTLLGNHLPQKVIQYFKKNIKLAVWLT	84
<i>B. velezensis</i>	1	MNVLYIRSGYKGIYTYFDRWIEEGFLQSSVRFVSEFE--EDTIRSIRAFKPDISLMTGDRIPSEWLQWLKTEQIPVYLWMT	82
<i>B. wiedmannii</i>	1	MKLLYITSGYSKVIYQYLDQSIQKTLINQNFELAVQPSELVEQLDFITATFHPDIVFTLLGNLPLQKATHYFKKRNIKLAVWLT	84

<i>B. subtilis</i>	83	EDPFYIDISLQVIKADAILTEQNAALYYQELGYQNVYYVPIPVNHRFLFKMGTEHSYHNSNLLIIGYPYPRVQLMKEAVH-L	165
<i>B. amylolique</i>	83	EDPFYIDVSMTIAPLADAVLTIEQNALDAYRQMGLOHVVYVPIPVNQRFLFKQPAEASLHNTNLLIIGYPYPRVQLVKAALK-L	165
<i>B. atrophaeus</i>	83	EDPFYIDISLQVIHADVILTIDQNSADVRELGCPIHYVYMPIPTNQRFLFKKLTNTSCHSNLLIIGYPYPRVQLIKETAN-L	165
<i>B. gaemokensi</i>	85	EDPFYIDTSLITELDTFDFIFTIDSGAINYYTSLGYTNVYHPLATNTTIFKSGLKKLDYKSEILFIGYPYPRVQLIHFLLEKT	168
<i>B. pseudomyco</i>	85	EDPFYEDKTYQITIDRFDYIFTIDTGALKQY-QLVHQNAYHLPPLGTNHSIFKPRSVEHVYKSDLLLVGYPYQTRVNLIHFLLKNT	167
<i>B. spizizenii</i>	83	EDPFYIDISLQVIKHADAILTEQNAVLYQELGFQHVYYVPIPVNHRFLFKMDTEHSFHNLLIIGYPYPRVQLMKEAVH-L	165
<i>B. thuringien</i>	85	EDPFYIDASLLLNDFDIFTIDSEALKYKALGYINVYHPLATNIDVFKPGRKNSKYKSEVLFIGYPYPRVQLIQFLLEKT	168
<i>B. toyonensis</i>	85	EDPFSIDNSLLLNDFDIFTIDSEALNYYTDLGYTNVYHPLATNIDVFKPGLKNSKYKSEVLFIGYPYPRVQLIQFLLEKT	168
<i>B. velezensis</i>	83	EDPFYIDVSMTIAPFADAVLTIEQNALDAYRQMGLOHVVYVPIPVNQRFLFKQPAEASLHNTNLLIIGYPYPRVQLVKAALK-L	165
<i>B. wiedmannii</i>	85	EDPFYIDTSLPLLNDFDIFTIDSEALKYKALGYTNVYHPLATNIDVFKPGLKNSKYKSEILFIGYPYPRVQLIQFLLEKT	168

<i>B. subtilis</i>	166	PFTVRVIGKEWKGKYLKKKVLKQPHIDVVSSTWIPPEQAVHYNGADIVINAHRPYHFAFNONTMTRIKNASFNRTEDIAACERFQ	249
<i>B. amylolique</i>	166	PYTLRIIGKGRWRHLPKKIARQQNVLMDEWIAPERAALYYNSADVINVPHRSYRFALNONGRGIGNISLNTSRDIAACQAFQ	249
<i>B. atrophaeus</i>	166	PVTIRLIGKEWRKYLHKKTIKQSNVDIIDQWISPEKAVHYNSADIVINPHRPYHFAFNKNQKSIQNISLNRSDIAACEAFQ	249
<i>B. gaemokensi</i>	169	PYHYTIIGQHWRNRLLKLWRKHPRIKIIEEWIPPEQAEVALYYNNTNLIINPHRSYLFQPNONENKIKNTINNRTEDIAACKGFQ	252
<i>B. pseudomyco</i>	168	NYALTIGKGRWRNRLLQKQVWRNNARVMIEDTWNPKEKVSFYNGASIVINPHRSNNFLYNNTSKIMNESINNRTEDIAACGAFQ	251
<i>B. spizizenii</i>	166	PFTVRVIGKEWRKYLKKKVLKQPHIDVVSSTWIPPEQAVHYNGADIVINAHRPYHFAFNKNHRIKNASFNRTEDIAACEAFQ	249
<i>B. thuringien</i>	169	PYHYTVIGQHWRNRLLIKKWKNNHRRVKIIEEWIPPEQAEVALYYNNASLIINPHRSYLFQPNKNKNKVKNSNTINNRTEDIAACEGFQ	252
<i>B. toyonensis</i>	169	PYHYTIIGQHWRNRLLKKWKNNHQRKIIEEWIPPEQAEVALYYNNANLIINPHRSYLFQPNKNKNKVKNTINNRTEDIAACKGFQ	252
<i>B. velezensis</i>	166	PYTLRIIGKGRWRHLPKKIARQQNVLMDEWIAPERAALYYNSADVINVPHRSYRFALNONGRGIGNISLNTSRDIAACQAFQ	249
<i>B. wiedmannii</i>	169	PYHFTIIGQHWRNRLLIKKWKNNHRRIKIIEEWIPPEQAEVAFYYNSASLIINPHRSYLFQPNKNKNRVKNSNTINNRTEDIAACQGFQ	252

<i>B. subtilis</i>	250	LT----DLPAHPFSSIIISYHGMDNFKEKAIFYINHPEERQKAAAANYKETVPAFTFDELPAKLKATHLALS-	317
<i>B. amylolique</i>	250	LT----DLSPAPPFSSFSVSYSGLADFADKIHFYMTNPGERKQTAALNYQETVPAYTYDQLPAVLAAIRSKTFS	318
<i>B. atrophaeus</i>	250	LV----DLPAASPFSFSVSYHGINDFKRKAAYYLEHPEERKKAALNYKETIPANTFDELPAKLSHIHLNC--	316
<i>B. gaemokensi</i>	253	IIEEKRDLYSFFDRDEILFYQSFEDCSRKISIIYINDTDEKELMVQKAQKKVLQHTTFHORIDFIIAIFQSQLH	325
<i>B. pseudomyco</i>	252	LIEEKENLRSFFTEEMISYQDYEDCLKVITYMNDKKKKEIIAQKAQKIVIGQHTFCORIKEMVKIIQS---	321
<i>B. spizizenii</i>	250	LT----DLPAHPFSSFSIISYSSINDFKEKAAYINHPEERHKAAASNYKETIPANTYDELPEKLKATYLAALS-	317
<i>B. thuringien</i>	253	IIEEKSDLSSFFNKDEIISYKSFDDCLNKISFYLDITISKGLMVEKIHTKVIHQHTFHERINFITTLRSQLN	325
<i>B. toyonensis</i>	253	IIEEKSDLSSFFNKDEIISYNSFEDCLNKVSFHLDDITISKRLMVEKIHTKVIHQHTFHERIHFIITTLQSHLH	325
<i>B. velezensis</i>	250	LT----DLSPAPPFSSFSVSYSGFADFADKIQFYMTNPGERKQIAALNYQETVPAYTYDRLPAVLASIRSKTFS	318
<i>B. wiedmannii</i>	253	IIEEKSDLSSFFNKDEIISYKSFEDCLNKLSLHNDITISKGLMVEKIYTKVITQHTFHERINFITTLQSQLY	325