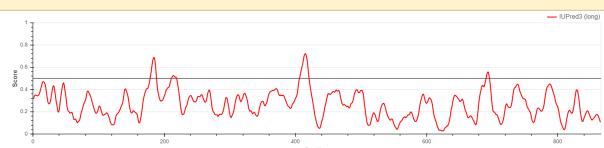
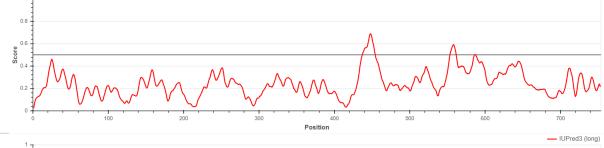
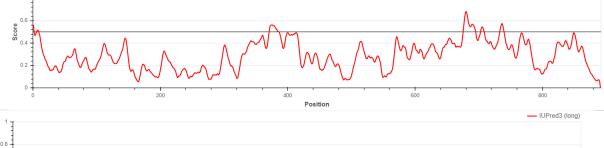
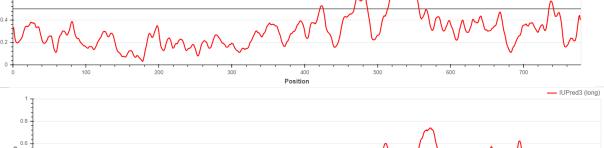
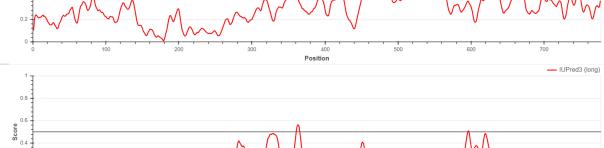
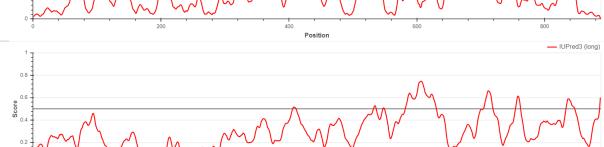
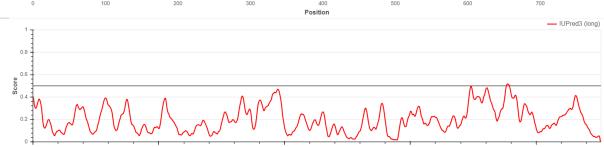
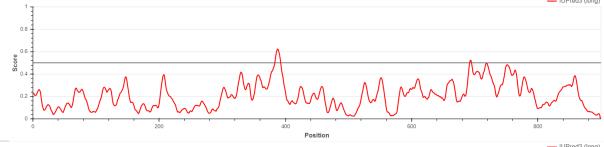
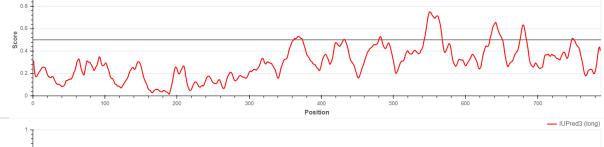
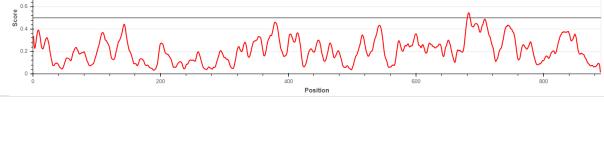
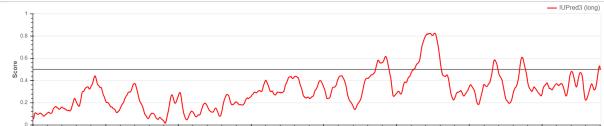
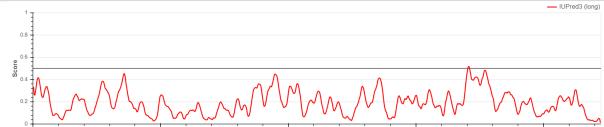
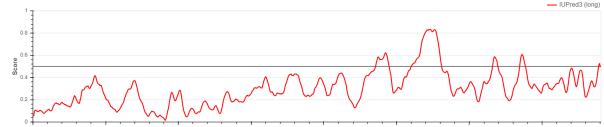
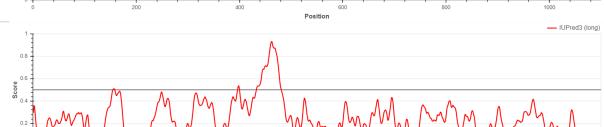
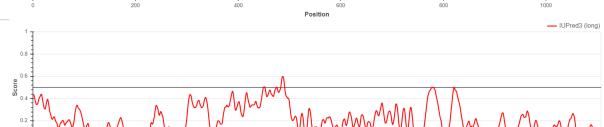
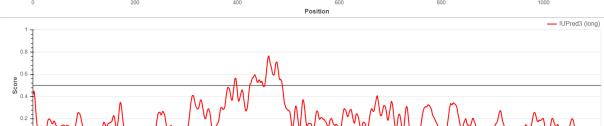
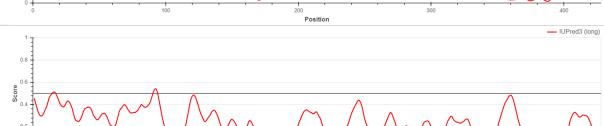
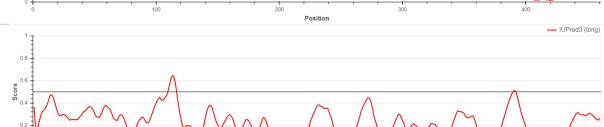
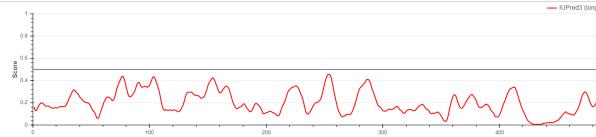
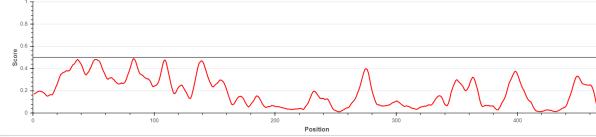
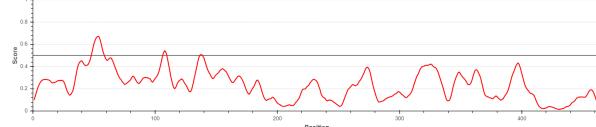
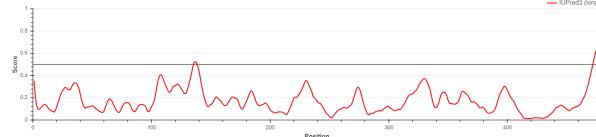
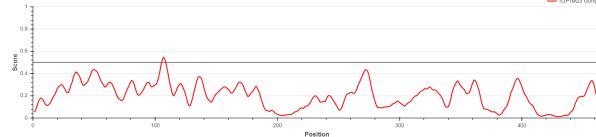
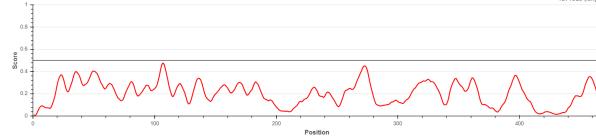
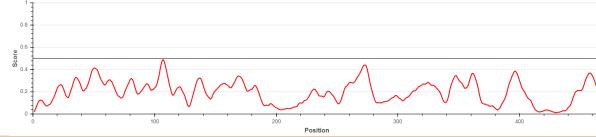
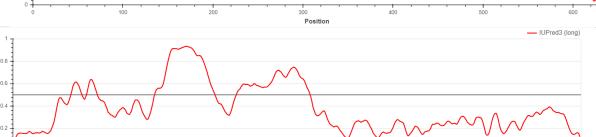
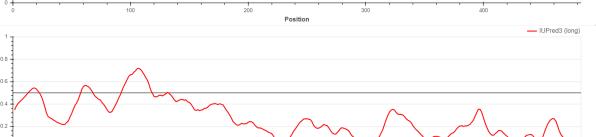
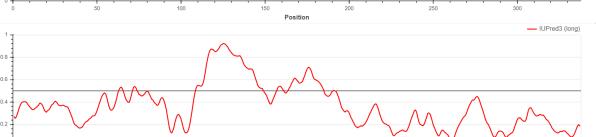
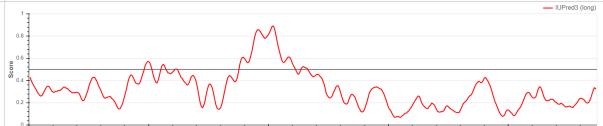
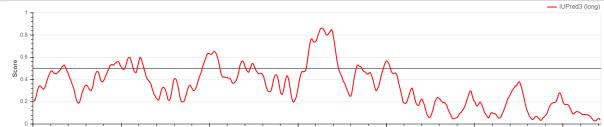
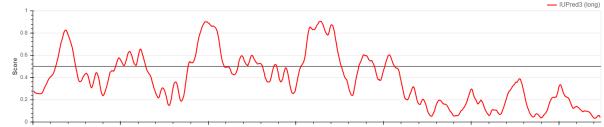
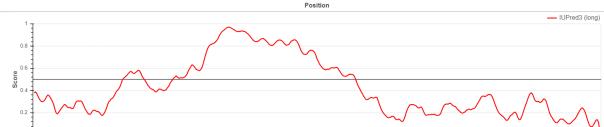
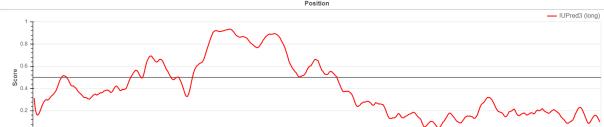
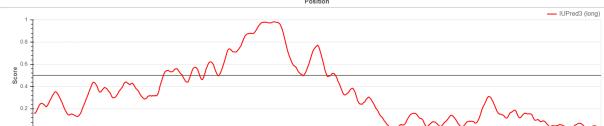
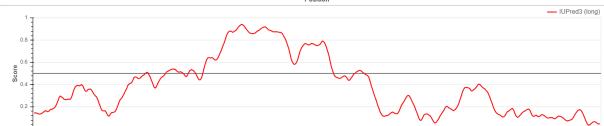
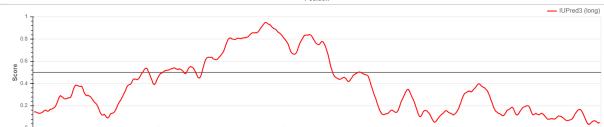
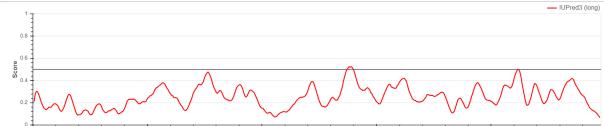
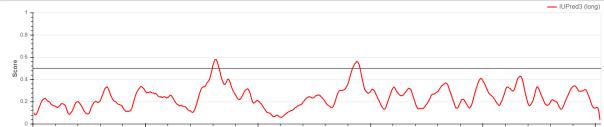
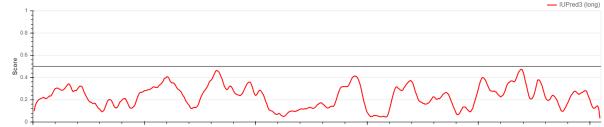
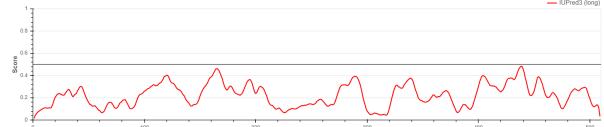
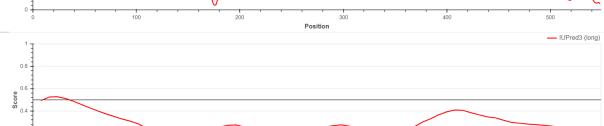
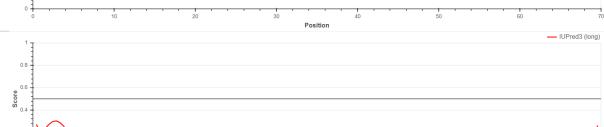
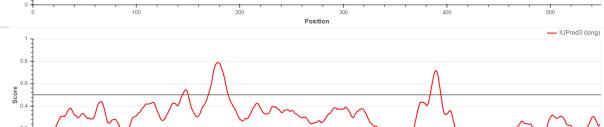
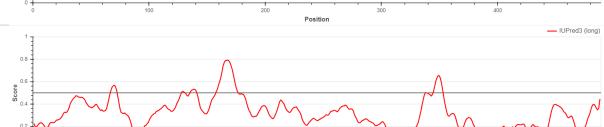


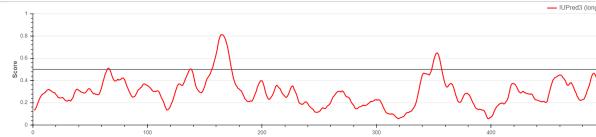
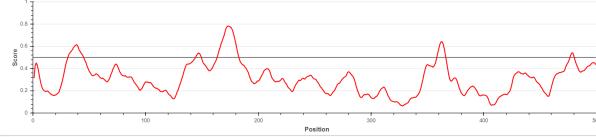
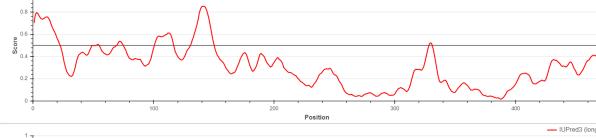
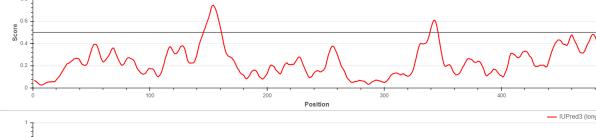
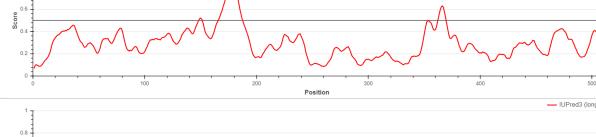
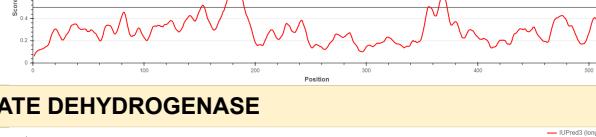
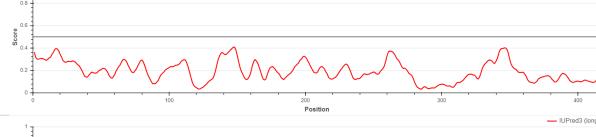
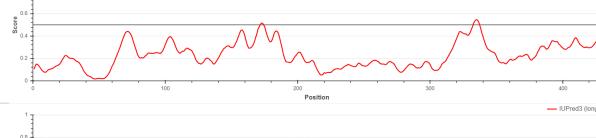
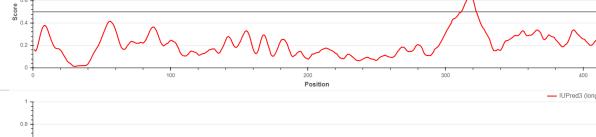
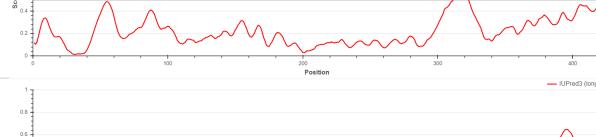
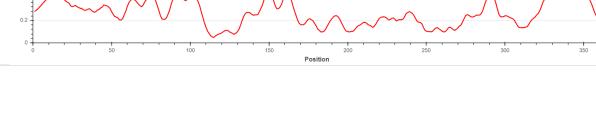
ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
ACONITATE HYDRATASE				
NP_414660	ecob0118			865
4.2.1.3	NP_415292	ecob0771		753
	NP_415792	ecob1276		891
	NP_013407	sceYLR304C		778
4.2.1.3	NP_741235	celCELE_F54H12.1		777
	NP_509898	celCELE_ZK455.1		887
	NP_650042	dmeDmel(CG4706)		783
4.2.1.3	NP_477371	dmeDmel(CG4900)		902
	NP_524303	dmeDmel(CG6342)		899
	NP_001097186	dmeDmel(CG9244)		787
NP_031412	mmu11428			889

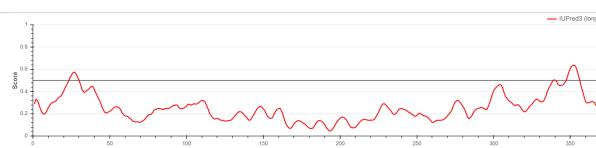
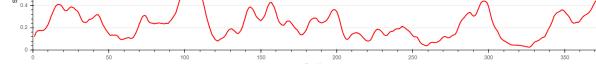
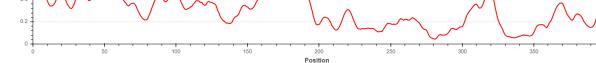
ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
		4.2.1.3		
NP_542364	mmu11429			780
NP_001265281	hsa48			889
CITRATE LYASE				
NP_506267	celCELE_B0365.1	2.3.3.8		1099
NP_508280	celCELE_D1005.1			1106
NP_001137674	dmeDmel(CG8322)	2.3.3.8		1112
NP_598798	mmu104112	2.3.3.8		1091
NP_001087	hsa47	2.3.3.8		1101
CITRATE SYNTHASE				
NP_415248	ecob0720	2.3.3.1		427
NP_009931	sceYCR005C			460
NP_014398	sceYNR001C			479

ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
NP_015325	sceYPR001W			486
NP_499264	celCELE_T20G5.2	2.3.3.1		468
NP_572319	dmeDmel(CG3861)	2.3.3.1		464
NP_650152	dmeDmel(CG14740)			478
NP_080720	mmu12974	2.3.3.1		464
NP_082221	mmu71832			466
NP_004068	hsa1431	2.3.3.1		466
ACETYLTRANSFERASE COMPONENT OF PYRUVATE DEHYDROGENASE				
NP_414657	ecob0115	2.3.1.12		630
NP_014328	sceYNL071W	2.3.1.12		482
NP_001255950	celCELE_C30H6.7	2.3.1.12		337
NP_001369968	celCELE_F23B12.5			507

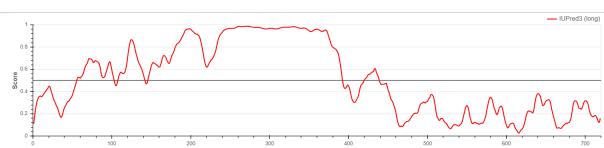
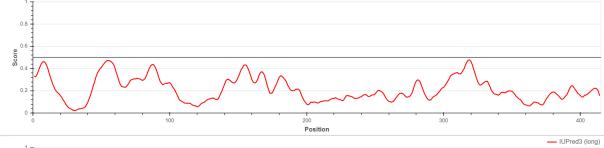
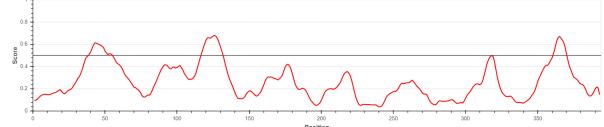
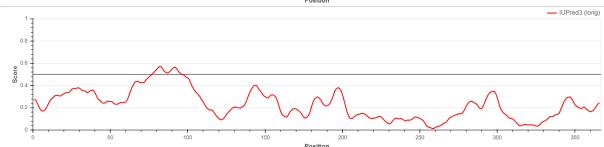
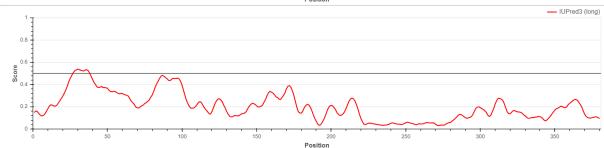
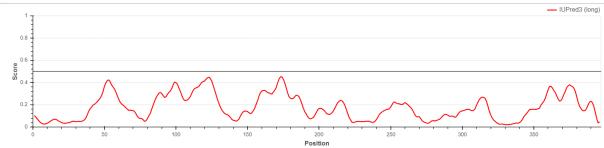
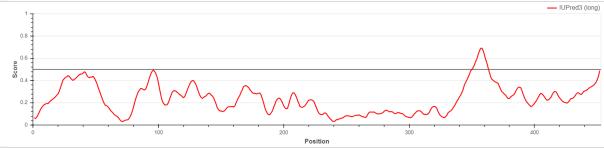
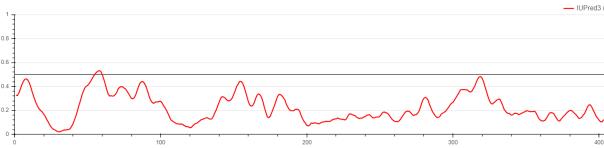
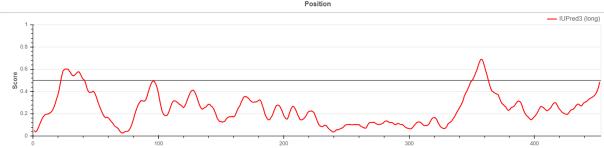
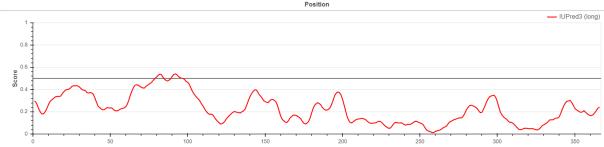
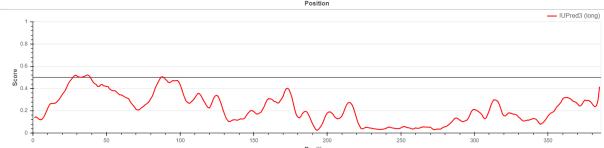
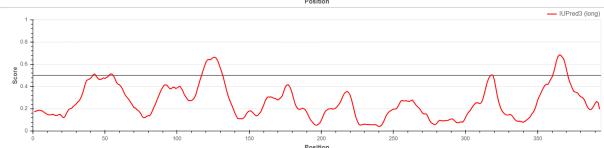
ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
NP_001260193	dmeDmel(CG5261)	2.3.1.12		473
NP_663589	mmu235339	2.3.1.12		642
NP_001922	hsa1737	2.3.1.12		647
SUCCINYLTRANSFERASE COMPONENT OF 2-OXOGLUTARATE DEHYDROGENASE				
NP_415255	ecob0727	2.3.1.61		405
NP_010432	sceYDR148C	2.3.1.61		463
NP_504700	celCELE_W02F12.5	2.3.1.61		463
NP_650064	dmeDmel(CG5214)	2.3.1.61		468
NP_084501	mmu78920	2.3.1.61		454
NP_001924	hsa1743	2.3.1.61		453
DIHYDROLIPOYL DEHYDROGENASE				
NP_414658	ecob0116	1.8.1.4		474
NP_116635	sceYFL018C	1.8.1.4		499

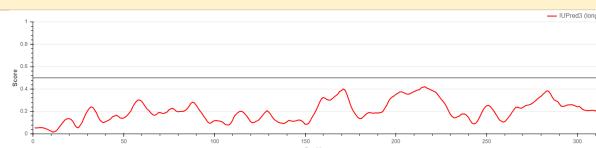
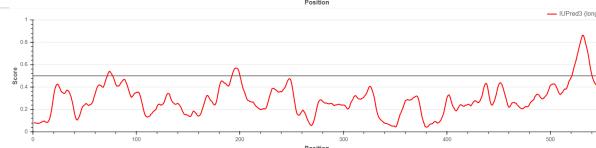
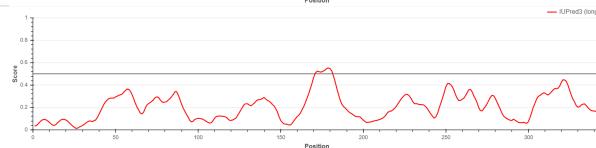
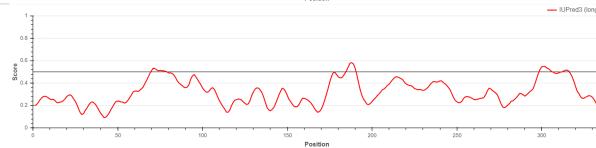
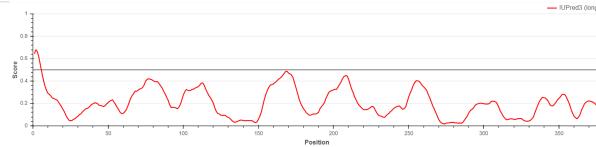
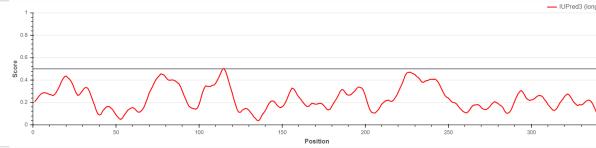
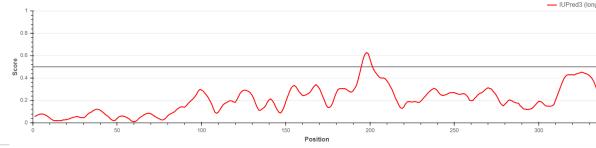
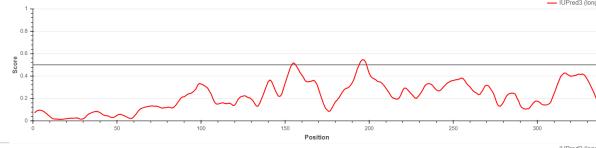
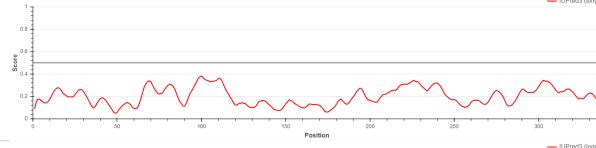
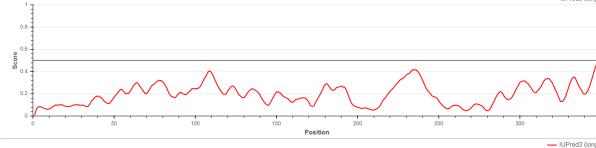
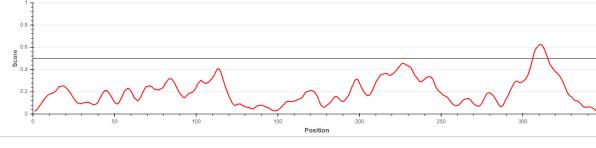
ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
NP_001255810	celCELE_llc1.3	1.8.1.4		495
NP_001262000	dmeDmel_cg7430	1.8.1.4		504
NP_031887	mmu13382	1.8.1.4		509
NP_000099	hsa1738	1.8.1.4		509
FUMARATE HYDRATASE				
NP_416128	ecob1611			467
NP_416129	ecob1612			548
NP_416190	ecob1675	4.2.1.2		69
NP_417404	ecob2929			169
NP_418546	ecob4122			548
NP_015061	sceYPL262W	4.2.1.2		488
NP_498642	celCELE_h14a12.2	4.2.1.2		501

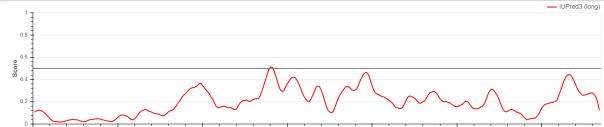
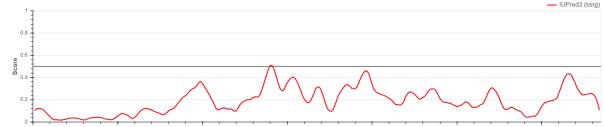
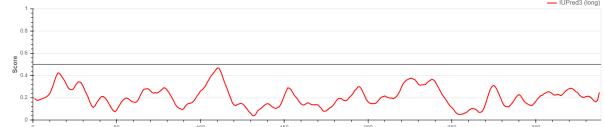
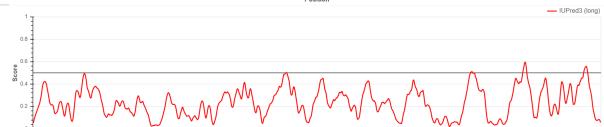
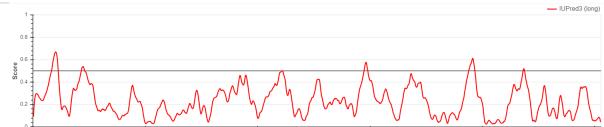
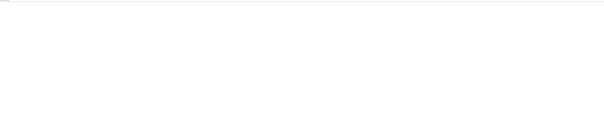
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NP_572339	dmeDmel(CG4094)	4.2.1.2		495
NP_727109	dmeDmel(CG4095)			503
NP_001261710	dmeDmel(CG6140)			470
NP_723527	dmeDmel(CG31874)			484
NP_034339	mmu14194	4.2.1.2		507
NP_000134	hsa2271	4.2.1.2		510
ISOCITRATE DEHYDROGENASE				
NP_415654	ecob1136	1.1.1.42		416
NP_010217	sceYDL066W	1.1.1.42		428
NP_013275	sceYLR174W			412
NP_014389	sceYNL009W			420
NP_014361	sceYNL037C			360

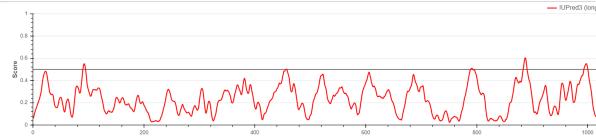
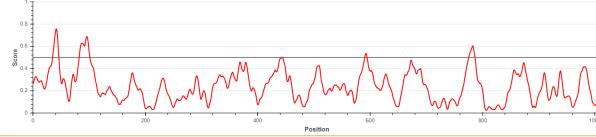
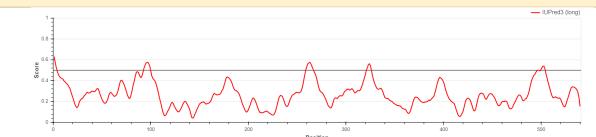
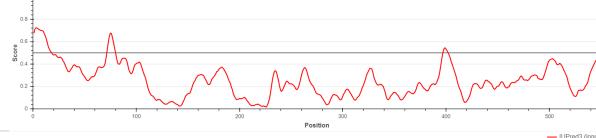
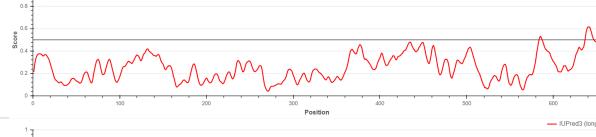
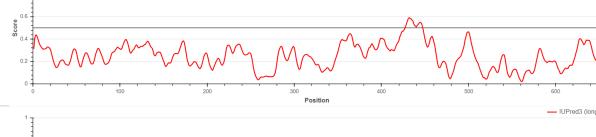
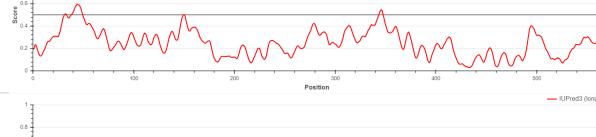
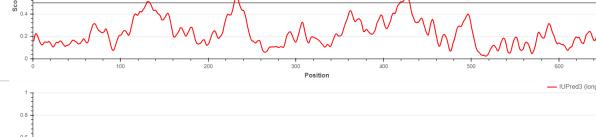
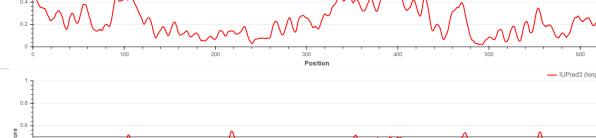
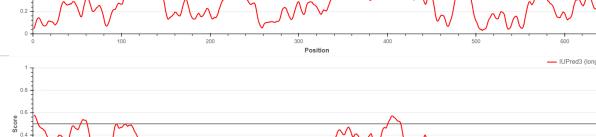
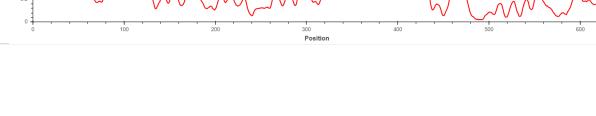
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		1.1.1.41		
NP_014779	sceYOR136W			369
NP_491989	celCELE_C30F12.7	1.1.1.41		373
NP_001370015	celCELE_C34F6.8	1.1.1.42		435
NP_510362	celCELE_C37E2.1			379
NP_497927	celCELE_F35G12.2	1.1.1.41		396
NP_492330	celCELE_F43G9.1			358
NP_001255392	celCELE_F59B8.2	1.1.1.42		435
NP_611912	dmeDmel(CG3483)			391
NP_001097922	dmeDmel(CG5028)	1.1.1.41		402
NP_001163682	dmeDmel(CG6439)			370
NP_001137910	dmeDmel(CG7176)	1.1.1.42		479
NP_001259705	dmeDmel(CG12233)			377

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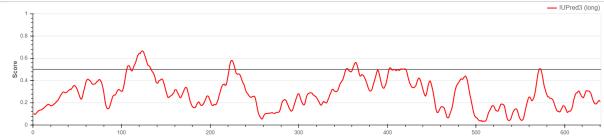
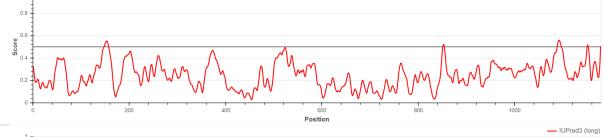
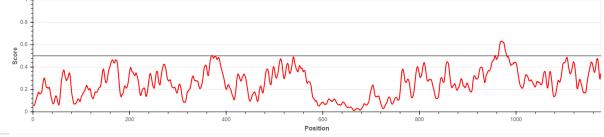
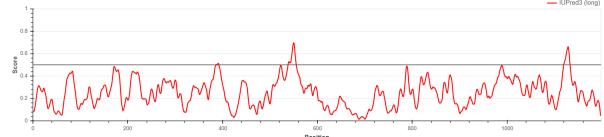
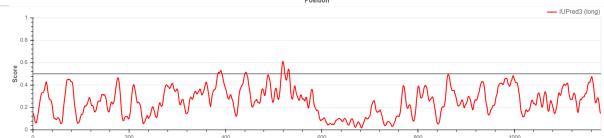
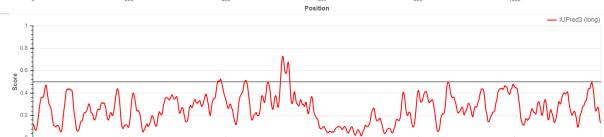
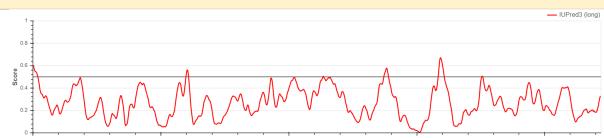
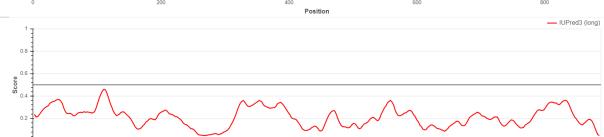
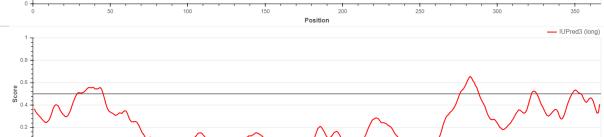
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		1.1.1.41		
NP_729420	dmeDmel(CG32026)			719
NP_00110490	mmu15926	1.1.1.42		414
NP_032349	mmu15929			393
NP_083849	mmu67834	1.1.1.41		366
NP_001349681	mmu170718			380
NP_766489	mmu243996			396
NP_766599	mmu269951	1.1.1.42		452
NP_001269315	hsa3417			414
NP_002159	hsa3418	1.1.1.42		452
NP_005521	hsa3419			366
NP_008830	hsa3420	1.1.1.41		385
NP_004126	hsa3421			393

ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
MALATE DEHYDROGENASE				
NP_417703	ecob3236	1.1.1.37		312
NP_416714	ecob2210 (quinone)	1.1.5.4		548
NP_010205	sceYDL078C			343
NP_012838	sceYKL085W	1.1.1.37		334
NP_014515	sceYOL126C			377
NP_498457	celCELE_F20H11.3	1.1.1.37		341
NP_504656	celCELE_F46E10.10			336
NP_001285803	dmeDmel(CG5362)			337
NP_650696	dmeDmel(CG7998)	1.1.1.37		336
NP_648615	dmeDmel(CG10748)			349
NP_648616	dmeDmel(CG10749)			347

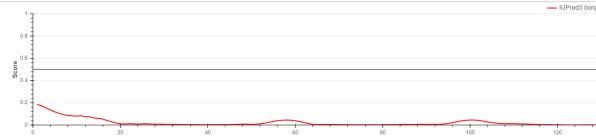
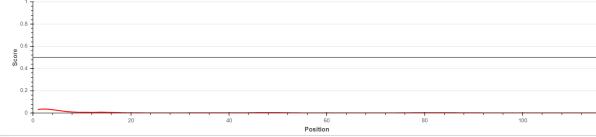
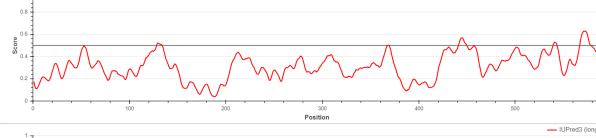
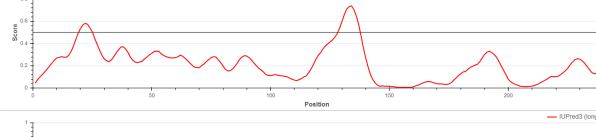
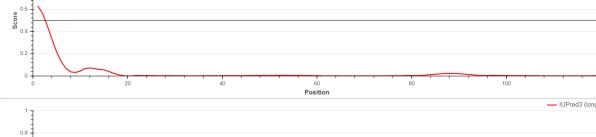
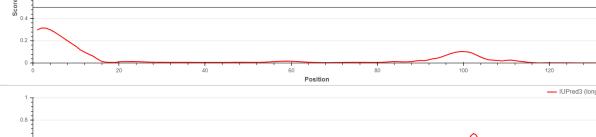
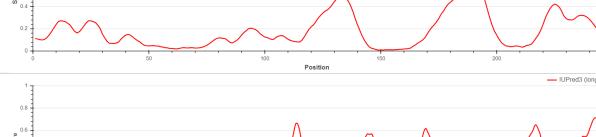
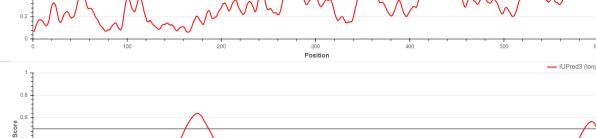
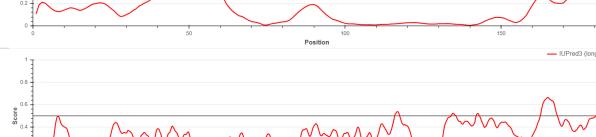
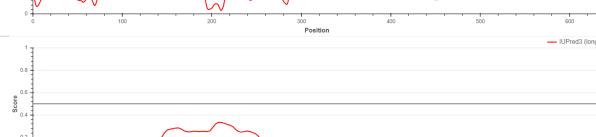
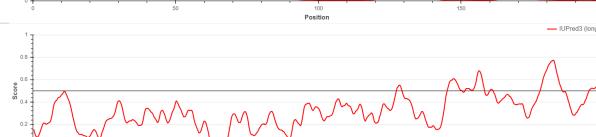
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NP_032643	mmu17448	1.1.1.37		338
				
NP_032644	mmu17449	1.1.1.37		334
				
NP_005908	hsa4190	1.1.1.37		334
				
OXOGLUTARATE DEHYDROGENASE				
NP_415254	ecob0726	1.2.4.2		933
				
NP_012141	sceYIL125W	1.2.4.2		1014
				
NP_500617	celCELE_T22B11.5	1.2.4.2		1029
				
NP_001097629	dmeDmel(CG11661)	1.2.4.2		1105
				
NP_001027099	dmeDmel(CG33791)	1.2.4.2		1238
NP_001239216	mmu18293	1.2.4.2		1023
NP_001074599	mmu239017	1.2.4.2		1010

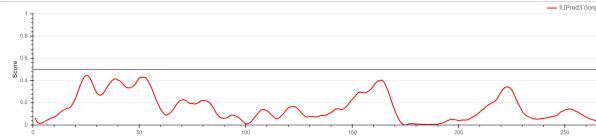
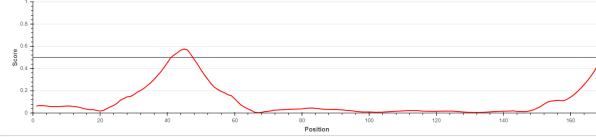
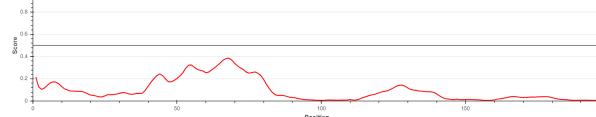
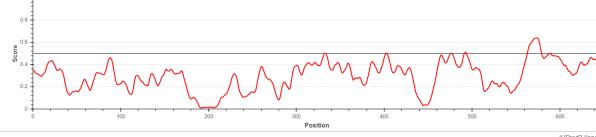
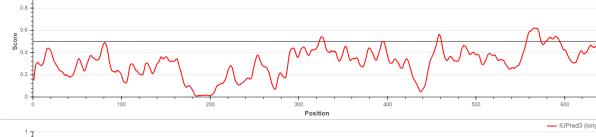
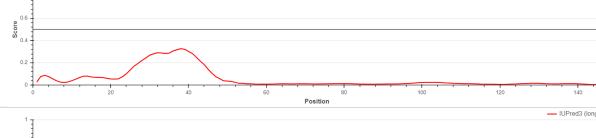
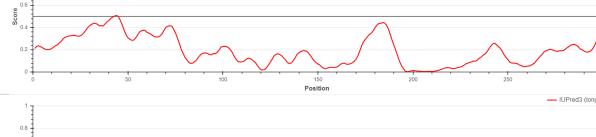
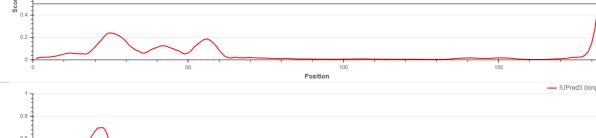
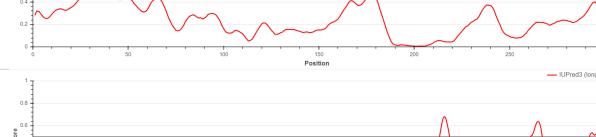
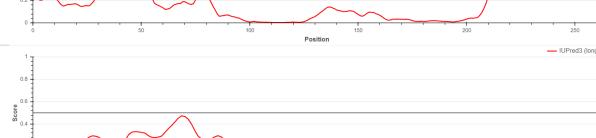
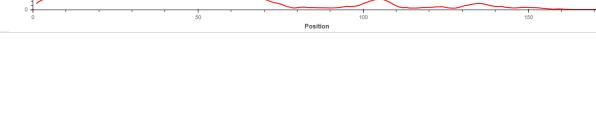
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NP_002532	hsa4967	1.2.4.2		1023
NP_001334748	hsa55753			1010
PHOSPHOENOLPYRUVATE CARBOXYKINASE				
NP_417862	ecob3403	4.1.1.49		540
NP_013023	sceYKR097W			549
NP_001366912	celCELE_R11A5.4	4.1.1.32		654
NP_497134	celCELE_W05G11.6			651
NP_001097367	dmeDmel(CG10924)	4.1.1.32		563
NP_523784	dmeDmel(CG17725)			647
NP_035174	mmu18534	4.1.1.32		622
NP_083270	mmu74551			640
NP_002582	hsa5105	4.1.1.32		622

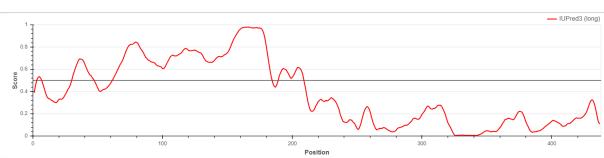
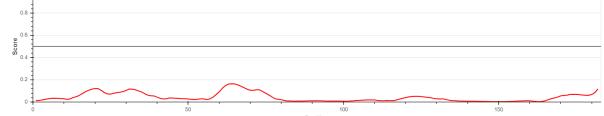
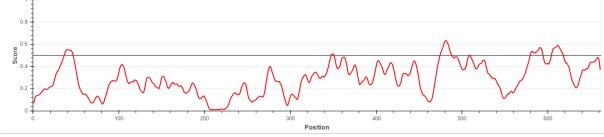
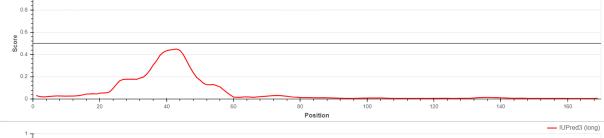
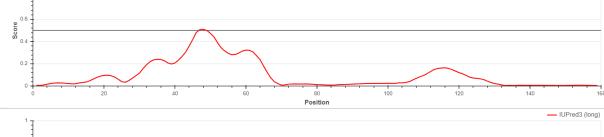
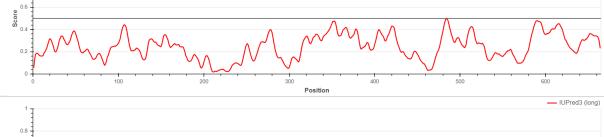
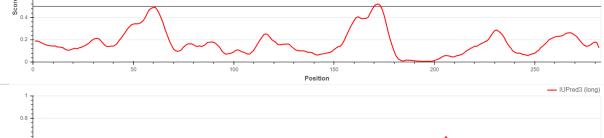
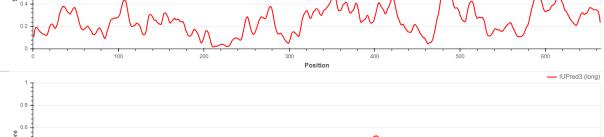
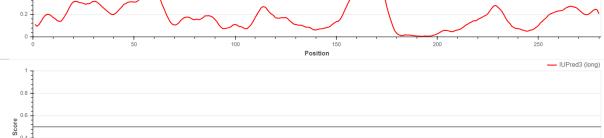
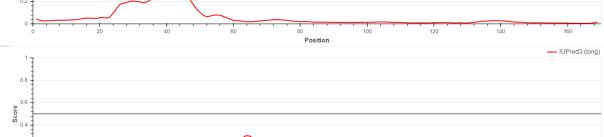
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ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
		4.1.1.32		
NP_004554	hsa5106			640
PYRUVATE CARBOXYLASE				
NP_009777	sceYBR218C	6.4.1.1		1180
NP_011453	sceYGL062W			1178
NP_001369995	celCELE_D2023.2	6.4.1.1		1175
NP_001163103	dmeDmel(CG1516)	6.4.1.1		1197
NP_001156418	mmu18563	6.4.1.1		1179
NP_000911	hsa5091	6.4.1.1		1178
PYRUVATE DEHYDROGENASE				
NP_414656	ecob0114	1.2.4.1		887
NP_009780	sceYBR221C	1.2.4.1		366
NP_011105	sceYER178W			420
NP_500340	celCELE_C04C3.3	1.2.4.1		352

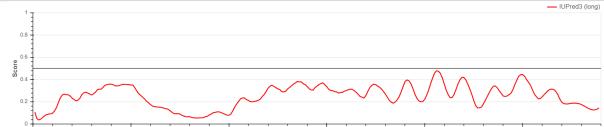
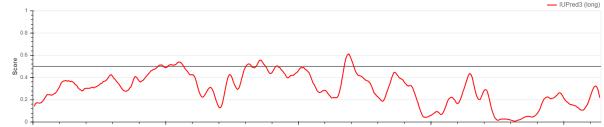
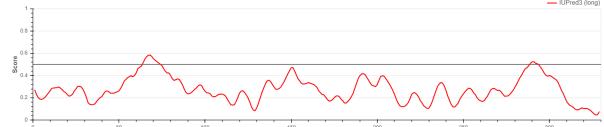
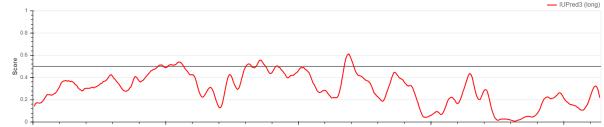
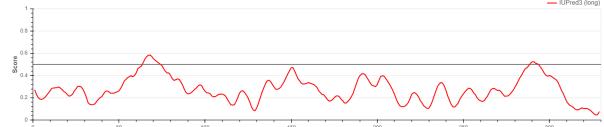
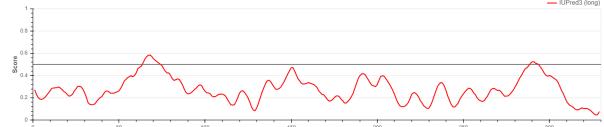
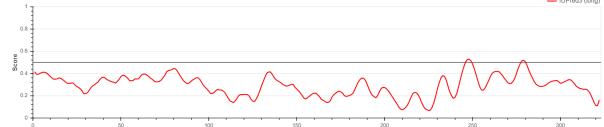
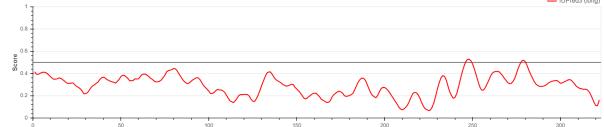
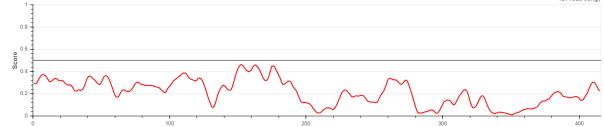
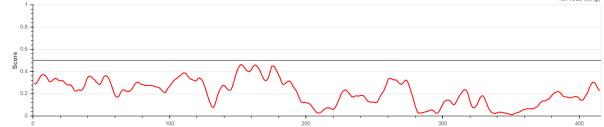
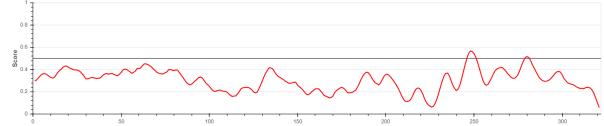
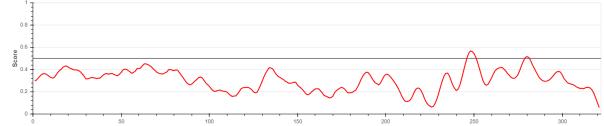
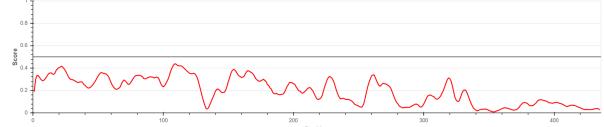
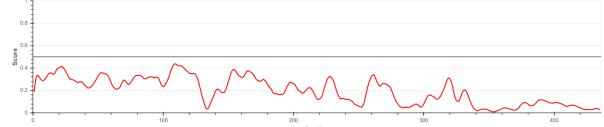
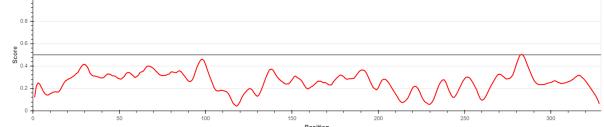
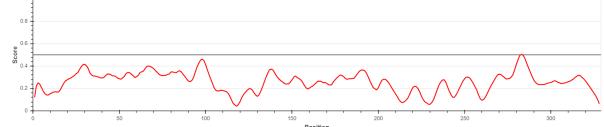
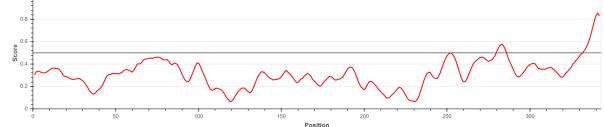
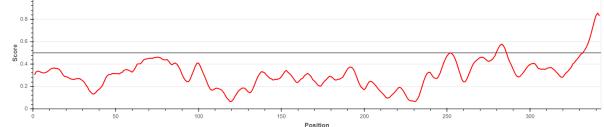
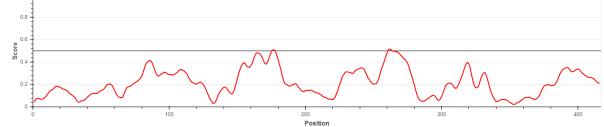
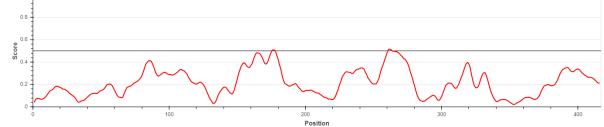
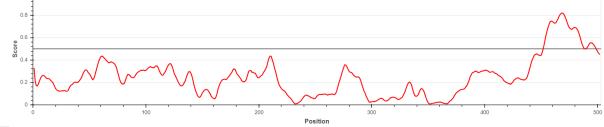
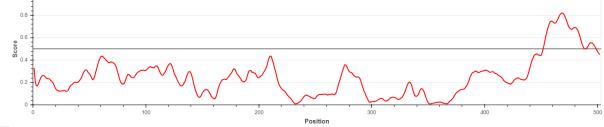
ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
NP_871953	celCELE_T05H10.6	1.2.4.1		414
NP_572181	dmeDmel(CG7010)	1.2.4.1		399
NP_572182	dmeDmel(CG7024)	1.2.4.1		479
NP_651668	dmeDmel(CG11876)	1.2.4.1		365
NP_032836	mmu18597	1.2.4.1		390
NP_032837	mmu18598	1.2.4.1		391
NP_077183	mmu68263	1.2.4.1		359
NP_000275	hsa5160	1.2.4.1		390
NP_005381	hsa5161	1.2.4.1		388
NP_000916	hsa5162	1.2.4.1		359
PYRUVATE FERREDOXIN/ FLAVADOXIN OXIDOREDUCTASE				
NP_415896	ecob1378	1.2.7.1		1174
SUCINATE DEHYDROGENASE				

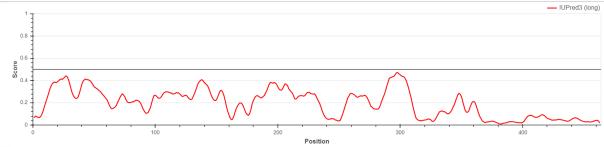
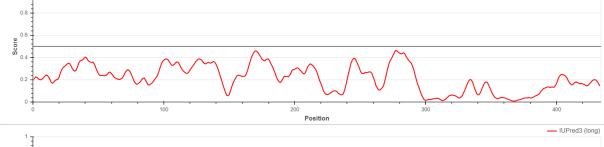
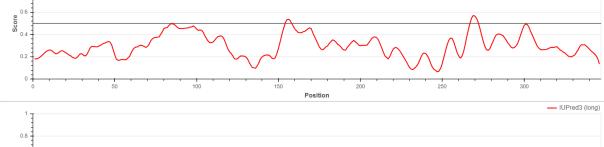
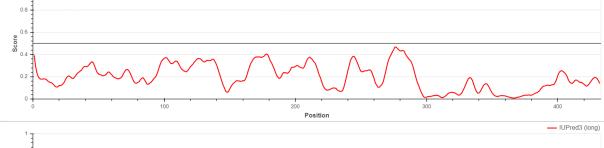
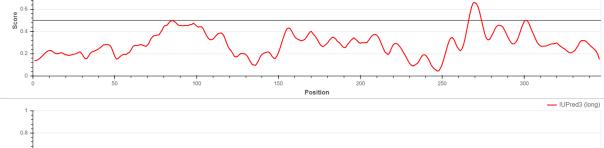
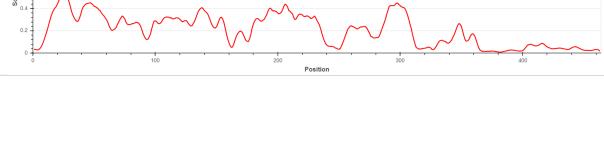
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NP_415249	ecob0721			129
NP_415250	ecob0722			115
NP_415251	ecob0723			588
NP_415252	ecob0724			238
1.3.5.1				119
NP_418576	ecob4152			131
NP_418577	ecob4153			244
NP_418578	ecob4154			602
NP_010463	sceYDR178W			181
NP_012490	sceYJL045W			634
NP_012781	sceYKL141W			198
NP_012774	sceYKL148C	1.3.5.1		640

ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
NP_013059	sceYLL041C			266
NP_013265	sceYLR164W			168
NP_013836	sceYMR118C			196
NP_509446	celCELE_C03G5.1			646
NP_492798	celCELE_C34B2.7			640
NP_496369	celCELE_F33A8.5	1.3.5.1		145
NP_495992	celCELE_F42A8.2			298
NP_001366681	celCELE_T07C4.7			182
NP_477101	dmeDmel(CG3283)			297
NP_648523	dmeDmel(CG5718)			651
NP_650041	dmeDmel(CG6629)			261
NP_001262472	dmeDmel(CG6666)	1.3.5.1		171

ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
NP_001285420	dmeDmel(CG7349)			437
NP_651181	dmeDmel(CG10219)			182
NP_477210	dmeDmel(CG17246)			661
NP_079597	mmu66052			169
NP_080124	mmu66925			159
NP_075770	mmu66945	1.3.5.1		664
NP_075863	mmu67680	1.3.5.1		282
NP_004159	hsa6389			664
NP_002991	hsa6390	1.3.5.1		280
NP_002992	hsa6391			169
NP_002993	hsa6392			159

SUCCINYL-CoA SYNTHETASE

ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
NP_415256	ecob0728	6.2.1.5		388
				
NP_415257	ecob0729	6.2.1.5		289
				
NP_011760	sceYGR244C	6.2.1.4		427
				
NP_014785	sceYOR142W	6.2.1.5		329
				
NP_510450	celCELE_C05G5.4	6.2.1.4		322
				
NP_501266	celCELE_C50F7.4	6.2.1.4		415
				
NP_497288	celCELE_F23H11.3	6.2.1.5		321
				
NP_509821	celCELE_F47B10.1	6.2.1.5		435
				
NP_001189044	dmeDmel(CG1065)	6.2.1.4		328
				
NP_650809	dmeDmel(CG6255)	6.2.1.4		342
				
NP_001286941	dmeDmel(CG10622)	6.2.1.5		416
				
NP_001097713	dmeDmel(CG11963)	6.2.1.5		502

ACCESSION NO	KEGG ENTRY	KEGG EC NUMBER	IUPred	AA COUNT
NP_035636	mmu20916			463
NP_035637	mmu20917	6.2.1.4 6.2.1.5		433
NP_063932	mmu56451			346
NP_003839	hsa8801			432
NP_003840	hsa8802	6.2.1.4 6.2.1.5		346
NP_003841	hsa8803			463