

Sheet1

N°	Uniprot ID	Short Name	Full name	Length (AA)	Molecular weight (kDa)	Organism	Pack						Reference	
							N°	Template	Chain	Domain	Quaternary structure	Identity (%)		Coverage (%)
Proteins from E. coli														
1	P0ACJ8	CRP_ECOLI	cAMP-activated global transcriptional regulator CRP	210	23.64	<i>E. coli</i>	1	3RYP	A		monomer	100	96%	1, 2
							2	3RYP	A	1	domains	100	87%	
							3	3RYP	AB		dimer	100	96%	
							4	1O3T	B	1	domains	100	86%	
2	P61517	CAN_ECOLI	Carbonic anhydrase	220	25.10	<i>E. coli</i>	1	3QY1	A		monomer	91	98%	1, 2
							2	3QY1	A	1	domain	89	72%	
							3	3QY1	ABCD		tetramer	91	98%	
							4	3QY1	AB		dimer	91	98%	
							5	3QY1	A	1	domains	89	91%	
3	P0A7A9	IPYR_ECOLI	Inorganic pyrophosphatase	176	19.70	<i>E. coli</i>	1	2AU7	A		monomer	90	99%	7
							2	2AU7	A	1	domain	90	82%	
							3	2AU7	ABCD		hexamer	90	100%	
							4	2AU7	ABC		trimer	90	99%	
							5	2AU7	AB		dimer	90	99%	
4	P27302	TKT1_ECOLI	Transketolase 1	663	72.21	<i>E. coli</i>	1	2R80	A		monomer	100	100%	5
							2	2R80	A	1	domain	100	85%	
							2	2R80	A	2	domain	100	85%	
							3	2R80	A	3	domain	100	100%	
							3	2R80	AB		dimer	100	100%	
							4	2R80	A	1	domain	100	100%	
5	P0A715	KDSA_ECOLI	2-dehydro-3-deoxyphosphonate aldolase	284	30.83	<i>E. coli</i>	1	1O60	A		monomer	81	95%	5
							2	1O60	A	1	domain	81	81%	
							3	1O60	ABCD		tetramer	81	95%	
							4	1O60	AB		dimer	81	95%	
							5	1O60	AB		dimer	81	95%	
							6	3E9A	A	1	domain	81	93%	
6	P0A9K9	SLYD_ECOLI	FKBP-type peptidyl-prolyl cis-trans isomerase StyD	196	20.85	<i>E. coli</i>	1	4ODK	A		monomer	50	78%	2
							2	4ODK	A	1	domains	52	61%	
							2	4ODK	A	2	domains	39	61%	
							3	4ODK	AB		dimer	50	78%	
							4	4ODM	B		monomer	50	76%	
							5	4ODM	B	1	domains	54	66%	
							5	4ODM	B	2	domains	40	66%	
							6	4ODM	AB		dimer	50	76%	
							7	3CGN	A		monomer	49	77%	
							8	3CGN	A	1	domains	54	66%	
7	P69054	DHSC_ECOLI	Succinate dehydrogenase	129	14.30	<i>E. coli</i>	1	2WDQ	C		monomer	100	94%	3
							2	2WDQ	C	1	domain	100	84%	
							1	4DX5	C		monomer	100	98%	
2							1	4DX5	C	1		100		
							1	4DX5	C	2		100		
							1	4DX5	C	3		100		
							2	4DX5	C	4	domains	100	93%	

Sheet1

8	P31224	ACRB_ECOLI	AcrB: multidrug efflux transporter	1049	113.57	<i>E. coli</i>	4DX5	C	5		100						
							4DX5	C	6		100						
							3	4DX5	ABC		trimer	100	98%	3, 4			
							4	4DX5	AB		dimer	100	98%				
											2HRT	F	1		100		
											2DRD	A	4		100		
											2I6W	A	3		100		
											5	2GIF	C	6	domains	100	99%
											2DRD	B	5		100		
											2GIF	A	2		100		
				3G5Q	A	2		100									
9	P0AD61	KPKYK1_ECOLI	Pyruvate kinase I pykF	470	50.73	<i>E. coli</i>	1	1E0T	A		monomer	100	95%				
								1E0T	A	1		100					
							2	1E0T	A	2	domains	99	92%				
								1E0T	A	3		100					
							3	1E0T	ABCD		tetramer	100	95%	5			
							4	1E0T	AB		dimer	100	95%				
											1E0T	A	2		99		
											5	1E0T	A	1	domains	100	97%
											1E0T	A	3		100		
											5ESV	F	2		29		
10	P0A8N5	SYK2_ECOLI	Lysine--tRNA ligase lysU	505	57.83	<i>E. coli</i>	1	1E1O	A		monomer	100	96%				
								1E1O	A	1		100					
							2	1E1O	A	2	domains	100	84%				
								1E1O	A	2		100					
							3	1E1O	AB		dimer	100	96%	5			
								1E1O	A	2		100					
							4	1E1O	A	1	domains	100	94%				
				1JJ2	O	2		33									
11	P00957	SYA_ECOLI	Alanine--tRNA ligase alaS	876	96.03	<i>E. coli</i>	1	3HY0	A		monomer	99	50%				
								3HY0	A	1		98					
							2	3HY0	A	2	domains	100	47%				
								3HY0	A	1		98					
								3HY0	A	2		100		5			
							3	3G98	A		domains	32	96%				
											3WQY	A	3		36		
											3FPC	A	1		19		
											2P8W	S			23		
							12	P77398	ARNA_ECOLI	Bifunctional polymyxin resistance protein ArnA	660	74.29	<i>E. coli</i>	1	1Z7E	B	
	1Z7E	B	1		100												
2	1Z7E	B	2	domains	100	93%											
	1Z7E	B	3		100												
3	1Z7E	AB		dimer	100	97%								1, 2			
	1Z7E	B	3		100												
4	1YRW	A	1	domains	100	96%											
				1Z7E	A	2		100									
13	P0AGD1	SODC_ECOLI	Superoxide dismutase [Cu-Zn]	173	17.68	<i>E. coli</i>	1	1ESO	A		monomer	100	87%	1, 2			
							2	1ESO	A	1	domain	100	85%				
14	P0A6U8	GLGA_ECOLI	Glycogen synthase	477	52.82	<i>E. coli</i>	1	2R4T	A		monomer	100	100%				
								2R4T	A	1		100					
							2	2R4T	A	2	domains	100	98%	1, 2			
								2R4T	A	2		100					
							3	2R4T	A	1	domains	100	98%				
											2R4T	A	2		100		
							1	3N3R	A		monomer	66	96%				
								3N3R	A	1		61					
							2	3N3R	A	2	domains	71	90%				
								3N3R	A	2		71					
							3	3N3R	AB		dimer	66	96%				

Sheet1

15	P13029	KATG_ECOLI	Catalase-peroxidase	726	80.02	<i>E. coli</i>	4	1U2J	A	monomer	100	41%	5	
							5	1U2J	A	1	domains	100		34%
								1U2J	A	2		100		
							6	1U2J	AB		dimer	100		41%
							7	3WXO	A		monomer	59		96%
							8	3WXO	A	1	domains	58		87%
								3WXO	A	2		61		
							9	3WXO	AB		dimer	59		96%
								3N3R	A	2		71		
							10	1U2J	A	2	domains	100		98%
	1U2J	A	1		100									
	1C8N	A	1		21									
16	P76344	ZINT_ECOLI	Metal-binding protein ZinT	216	24.76	<i>E. coli</i>	1	5AQ6	A	monomer	100	88%	1, 2	
							2	5AQ6	A	1	domain	99		62%
							3	5AQ6	AB		dimer	100		88%
							4	5AQ6	A	1	domains	99		94%
								3QE1	A	1		21		
17	P0ABD3	BFR_ECOLI	Bacterioferritin	158	18.50	<i>E. coli</i>	1	2Y3Q	A	monomer	100	99%	7	
							2	2Y3Q	A	1	domain	100		87%
							3	2Y3Q	ABCD		24-mer	100		99%
							4	2Y3Q	ABC		trimer	100		99%
							5	2Y3Q	AB		dimer	100		99%
18	P0AEE3	DEGS_ECOLI	Serine endoprotease DegS	355	37.58	<i>E. coli</i>	1	4RQY	A	monomer	100	84%	6	
							2	4RQY	A	1	domains	100		75%
								4RQY	A	2		100		
							3	4RQY	ABCD		24-mer	100		84%
							4	4RQY	AB		dimer	100		84%
								2R3Y	A	1		100		
5	1TE0	A	2	domains	100	99%								
	2IZO	A	2		100									
19	P0AFG6	ODO2_ECOLI	Dihydrolypoyllsine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex	405	44.01	<i>E. coli</i>	1	1E2O	A	monomer	100	57%	1, 2	
							2	1E2O	A	1	domain	100		35%
							3	1E2O	ABCD		24-mer	100		57%
							4	1E2O	ABC		trimer	100		57%
							5	1E2O	AB		dimer	100		57%
								1E2O	A	1		100		
							6	1Y8N	B	1	domains	32		95%
								1KMO	A	1		21		
	3QYF	A	2		26									
20	P0A6F5	CH60_ECOLI	60 kDa chaperonin	548	57.33	<i>E. coli</i>	1	2CGT	A	monomer	100	96%	2	
								2CGT	A	1		100		
							2	2CGT	A	2	domains	100		83%
								2CGT	A	3		100		
								1PCQ	A	1		100		
								1XCX	C	3		100		
							3	2CGT	H	2	domains	100		98%
								4KI8	C	4		97		
	1MBM	A	3		32									
21	P0A858	TPIS_ECOLI	Triosephosphate isomerase	255	26.97	<i>E. coli</i>	1	4IOT	A	monomer	100	100%	5	
							2	4IOT	A	1	domain	100		94%
22	P0A9S3	GATD_ECOLI	Galactitol-1-phosphate 5-dehydrogenase	346	37.39	<i>E. coli</i>	1	4UEJ	B	monomer	100	100%	5	
							2	4UEJ	B	1	domains	100		85%
								4UEJ	B	2		100		
							3	4UEJ	AB		dimer	100		100%
								4A2C	A	1		100		
4	4UEJ	B	2	domains	100	95%								

Sheet1

							4NJC	F	1		19			
23	P17169	GLMS_ECOLI	Glutamine--fructose-6-phosphate aminotransferase	609	66.89	<i>E. coli</i>	1	2J6H	A		monomer	100	100%	1, 2
								2J6H	A	1		100		
							2	2J6H	A	2	domains	100	95%	
								2J6H	A	3		100		
							3	2J6H	AB		dimer	100	100%	
								2J6H	A	1		100		
							4	3OOJ	H	1	domains	100	100%	
								1MOQ	A	2		100		
							3BFM	A	2		27			
24	P0A6X3	HFQ_ECOLI	RNA-binding protein Hfq	102	11.17	<i>E. coli</i>	1	2YLB	A		monomer	100	64%	1, 2
							2	2YLB	A	1	domain	100	59%	
							3	2YLB	ABCD		hexamer	100	64%	
							4	2YLB	A	1	domains	100	91%	
							1NT0	A	2		21			
25	P0A9Q1	ARCA_ECOLI	Aerobic respiration control protein ArcA	238	27.29	<i>E. coli</i>	1	1XHE	A		monomer	100	51%	5
							2	1XHE	A	1	domains	100	92%	
								1P2F	A	2		38		
26	P0AFG3	ODO1_ECOLI	2-oxoglutarate dehydrogenase E1 component	933	105.06	<i>E. coli</i>	1	2JGD	A		monomer	100	87%	1, 2
								2JGD	A	1		100		
							2	2JGD	A	2	domains	100	77%	
								2JGD	A	3		100		
								2JGD	A	4		99		
							3	2JGD	AB		dimer	100	87%	
								2JGD	A	3		100		
								2JGD	A	2		100		
							4	2JGD	A	4	domains	100	98%	
								2JGD	A	1		99		
							2J4D	A	1	22				
							2ZHH	A	1	20				
27	P0A9A9	FUR_ECOLI	Ferric uptake regulation protein	148	16.79	<i>E. coli</i>	1	2W57	A		monomer	82	89%	1, 2
								2W57	A	1	domains	85	86%	
							2	2W57	A	2		79		
							3	2W57	AB		dimer	82	89%	
								2FU4	A	1		100		
							4	2W57	A	2	domains	79	93%	
	2WAX	B			33									
28	P03023	LACI_ECOLI	Lactose operon repressor	360	38.59	<i>E. coli</i>	1	2P9H	A		monomer	100	75%	7
								2P9H	A	1	domains	100	69%	
							2	2P9H	A	2		100		
							3	2P9H	AB		dimer	100	75%	
								2P9H	A	2		100		
							4	2P9H	A	1	domains	100	98%	
								4RZS	A	3		100		
	1UZ5	A	4		20									
29	P0ADZ4	RS15_ECOLI	30S ribosomal protein S15	89	10.27	<i>E. coli</i>	1	4A5U	B		monomer	100	90%	2
							2	4A5U	AB		dimer	100	90%	
30	P62577	CAT_ECOLX	Chloramphenicol acetyltransferase	219	25.66	<i>E. coli</i>	1	1NOC	B		monomer	100	97%	1, 2
							2	1NOC	B	1	domain	100	79%	
							3	1NOC	ABC		trimer	100	97%	
							4	1NOC	B	1	domains	100	93%	
							3GRZ	A	2	29				

Sheet1

31	P06720	AGAL_ECOLI	Alpha-galactosidase	451	50.66	<i>E. coli</i>	1	1S6Y	A	monomer	28	91%	5	
							2	1S6Y	ABCD	tetramer	28	91%		
							3	1S6Y	ABCD	tetramer	28	91%		
							4	1S6Y	AB	dimer	28	91%		
							5	3FEF	A	monomer	25	94%		
							6	3FEF	A	1	domain	26		90%
							7	3FEF	ABCD	tetramer	25	94%		
							8	3FEF	AB	dimer	25	94%		
							9	1U8X	X	monomer	23	96%		
							10	1U8X	ABCD	tetramer	23	96%		
							11	1U8X	AB	dimer	23	96%		
32	P0AC53	G6PD_ECOLI	Glucose-6-phosphate 1-dehydrogenase	491	55.70	<i>E. coli</i>	1	4LGV	A	monomer	38	93%	2	
							2	4LGV	A	1	domain	39		90%
								4LGV	A	2	domain	37		
							3	4LGV	ABCD	tetramer	38	93%		
							4	4LGV	ABCD	tetramer	38	93%		
							5	4LGV	ABCD	tetramer	38	93%		
							6	1QKI	A	monomer	37	97%		
							7	1QKI	A	1	domains	34		93%
								1QKI	A	2		40		
							8	4E9I	A	monomer	37	96%		
							9	4E9I	A	1	domains	40		92%
	4E9I	A	2		33									
10	4E9I	AB	dimer	37	96%									
11	1QKI	A	2	domains	40	93%								
	1QKI	A	1		34									
33	P23908	ARGE_ECOLI	Acetylornithine deacetylase	383	42.35	<i>E. coli</i>	1	3CT9	A	monomer	24	90%	2	
							2	3CT9	A	1	domains	23		90%
								3CT9	A	2		24		
							3	3CT9	AB	dimer	24	90%		
							4	4PQA	A	monomer	23	95%		
							5	4PQA	A	1	domains	12		91%
								4PQA	A	2		26		
							6	4PQA	AB	dimer	23	95%		
							7	1VGY	A	monomer	22	95%		
							8	1VGY	A	1	domains	26		95%
	1VGY	A	2		12									
9	1VGY	AB	dimer	27	95%									
10	4Q7A	C	1	domains	27	89%								
	2RB7	A	2		23									
34	P02931	OMPF_ECOLI	Outer membrane protein F	362	37.08	<i>E. coli</i>	1	2ZFG	A	monomer	100	94%	7,9	
							2	2ZFG	ABC	trimer	100	94%		
							3	2ZFG	AB	dimer	100	94%		
35	P21179	CATE_ECOLI	Catalase HPII	753	84.16	<i>E. coli</i>	1	3TTV	A	monomer	100	96%	8	
								3TTV	A	1		100		
							2	3TTV	A	2	domains	100		66%
								3TTV	A	3		100		
							3	3TTV	ABCD	tetramer	100	96%		
							4	3TTV	AB	dimer	100	96%		
							5	3TTV	AB	dimer	100	96%		
								3TTV	A	1		100		
	3TTV	A	3	domains	100	98%								
	3TTV	A	2		100									
	1YE9	E			43									
Proteins from yeast							1	4W6Z	A	monomer	100	100%		

Sheet1

36	P00330	ADH1_YEAST	Alcohol dehydrogenase 1	348	36.72	<i>S. cerevisiae</i>	2	4W6Z	A	1	domains	100	86%	10
								4W6Z	A	2		100		
							3	4W6Z	AB		dimer	100	100%	
								2HCY	A	1		100		
							4	2HCY	A	2	domains	100	97%	
	5ESV	G	2		20									
37	P53184	PNC1_YEAST	Nicotinamidase	216	24.99	<i>S. cerevisiae</i>	1	3V8E	A		monomer	100	100%	13
							2	3V8E	A	1	domain	100	86%	
							3	3V8E	A	1	domains	100	100%	
								3TLX	A	2		23		
Protein fusion tags														
38	P0AA25	THIO_ECOLI	Thioredoxin-1	109	11.81	<i>E. coli</i>	1	3DXB	B		monomer	100	98%	1
							2	3DXB	ABCD		octomer	100	98%	
							3	3DXB	ABCD		tetramer	100	98%	
							4	3DXB	ABCD		tetramer	100	98%	
							5	3DXB	A	1	domain	100	99%	
39	P63165	SUMO1_HUMAN	Small ubiquitin-related modifier 1	101	11.56	<i>Homo sapiens</i>	1	2UYS	B		monomer	99	77%	1
40	P0ABD8	BCCP_ECOLI	Biotin carboxyl carrier protein BCCP	156	16.69	<i>E. coli</i>	1	1BDO	A		monomer	100	51%	12
							2	1BDO	A	1	domain	100	49%	
							3	1BDO	A	1	domains	100	89%	
								1IN0	A	1		27		
41	P0AFG0	NUSG_ECOLI	Transcription termination/anti termination protein NusG	181	20.53	<i>E. coli</i>	1	2XHC	A		monomer	36	96%	12
								2XHC	A	1		51		
							2	2XHC	A	2	domains	19	90%	
								2XHC	A	3		54		
								2XHC	A	4		21		
							3	4ZN3	A		monomer	23	78%	
								4ZN3	A	1		24		
							4	4ZN3	A	2	domains	24	74%	
							5	3BEZ	A		monomer	22	99%	
								3BEZ	A	1		14		
							6	3BEZ	A	2	domains	16	84%	
							7	3BEZ	ABCD		tetramer	41	99%	
	2XHC	A	1		41									
8	2XHC	A	3	domains	54	96%								
	2V51	E			33									
42	P08515	GST26_SCHJA	Glutathione S-transferase class-mu 26 kDa isozyme	218	25.50	<i>Schistosoma japonicum</i>	1	1B8X	A		monomer	100	100%	1
							2	1B8X	A	1	domains	100	95%	
								1B8X	A	2		100		
							3	1B8X	AB		dimer	100	100%	
							4	1DUG	A	1	domains	100	95%	
	1B8X	A	2		100									
43	P0AEY0	MALE_ECO57	Maltose-binding periplasmic protein	369	40.58	<i>E. coli</i>	1	4RG5	A		monomer	100	100%	1
							2	4RG5	A	1	domains	100	96%	
								4RG5	A	2		100		
							3	3HP1	B	1	domains	100	97%	
	1HSJ	A	1		100									
							1	1HH2	P		monomer	35	69%	
								1HH2	P	1		47		
							2	1HH2	P	2	domains	37	67%	
								1HH2	P	3		22		
								1HH2	P	4		34		
							3	4MTN	A		monomer	35	81%	
								4MTN	A	1		26		
	4MTN	A	2		30									

Sheet1

						3AJA	A	1		17			
52	P98072	ENTK_BOVIN	Enterokinase	1035	114.89	<i>Bos taurus</i>	1	1Z8G	A		monomer	33	33%
							2	1Z8G	A	1	domains	16	32%
								1Z8G	A	2		43	
							3	3T2N	B		monomer	30	31%
							4	3T2N	B	1	domains	40	29%
								3T2N	B	2		17	
							5	3K65	B		monomer	32	25%
							6	3K65	B	1	domain	35	21%
							7	3W94	A	1		56	
								2WNO	A	1	domains	36	91%
3ZSC	A	1		19									
1H41	A	2		15									
53	P00760	TRY1_BOVIN	Trypsin	246	25.79	<i>Bos taurus</i>	1	3MFJ	A		monomer	100	91%
							2	3MFJ	A	1	domains	100	77%
								3MFJ	A	2		100	
								3MFJ	A	1		100	
							3	3MFJ	A	2	domains	100	97%
	2DLA	A	2		22								
54	P00766	CTRA_BOVIN	Chymotrypsin	245	25.67	<i>Bos taurus</i>	1	1GCT	A		monomer	100	96%
							2	1GCT	A	1	domains	100	80%
								1GCT	A	2		100	
								1GCT	A	2		100	
							3	1GCT	A	1	domains	100	93%
	3TW6	C	7		28								
55	P00800	THER_BACTH	Thermolysin	548	60.10	<i>Bacillus thermoproteolyticus</i>	1	3DNZ	A		monomer	100	58%
							2	3DNZ	A	1	domains	100	57%
								3DNZ	A	2		100	
								3DNZ	A	2		100	
								3DNZ	A	1		100	
							3	2OUA	A	1	domains	27	95%
	3DMY	A	3		26								
56	P06873	PRTK_ENGAL	Proteinase K	384	40.30	<i>Engyodontium album</i>	1	2PWA	A		monomer	100	73%
								2PWA	A		100		
							2	1SCJ	B	1	domains	38	97%
	2PWF	A	3		26								
57	P00791	PEPA_PIG	Pepsin	385	41.26	<i>Sus scrofa</i>	1	3PSG	A		monomer	100	95%
							2	3PSG	A	1	domains	99	90%
								3PSG	A	2		99	
							3	3PSG	AB		dimer	100	95%
								3PSG	A	1		99	
4	1YX9	A	2	domains	100	99%							
	3G15	A	1		28								
58	P08246	ELNE_HUMAN	Neutrophil elastase	267	28.52	<i>Homo sapiens</i>	1	2Z7F	E		monomer	100	82%
							2	2Z7F	E	1	domains	100	72%
								2Z7F	E	2		100	
								2Z7F	E	2		100	
3	2Z7F	E	1	domains	100	94%							
	3P42	A	2		17								
59	P81054	PLMP_GRIFR	LysN Peptidyl-Lys Metalloendopeptidase	348	36.88	<i>Grifola frondosa</i>	1	1G12	A		monomer	100	48%
								1G12	A	1		100	
							2	2X3A	A	2	domains	24	95%
	3PR5	B	4		29								

Sheet1

60	Q7M135	LYSC_LYSEN	Lysyl endopeptidase	269	27.96	<i>Lysobacter enzymogene s</i>	1	4NSV	A	monomer	100	98%	1	
							2	4NSV	A	1	domains	100		70%
								4NSV	A	2		99		
								4NSV	A	1		100		
							3	4NSV	A	2	domains	99		93%
	2P6A	C	1		27									
61	P00639	DNAS1_BOVIN	DNase protein	282	31.35	<i>Bos taurus</i>	1	3W3D	B	monomer	100	92%	1	
							2	3W3D	B	1	domain	100		84%
							3	3W3D	B	1	domains	100		93%
								3CA2	A	4		18		
Proteins from other sources														
62	B4SL31	B4SL31_STRM5	Alkaline phosphatase	397	40.61	<i>Stenotropho monas maltophilia</i>	1	5JK4	A	monomer	100	94%	11	
							2	5JK4	A	1	domains	100		80%
								5JK4	A	2		100		
								5JK4	A	1		100		
							3	5JK4	A	2	domains	100		89%
								2IPX	A	1		13		