Results for Homework 2: Protein Similarity Search

Species	Score	Accession	Protein Name	Protein Desciption
			groEL gene	Prevents misfolding and promotes the refolding and proper assembly of
Mesorhizobium loti	1583	NP_108345.1*	product	unfolded polypeptides generated under stress conditions
				Drayants misfalding and promotes the refolding and proper assembly of
Brucella Ovis ATCC 25840	1540	YP 001257246.1	chaperonin GroEL	Prevents misfolding and promotes the refolding and proper assembly of unfolded polypeptides generated under stress conditions
Brucella Ovis ATCC 23640	1300	TP_001237240.1	GroEL protein /	uniolaed polypeptides generated under stress conditions
			60 kDa	Prevents misfolding and promotes the refolding and proper assembly of
Neisseria lactamica	1518	YP_004049486.1	chaperonin	unfolded polypeptides generated under stress conditions
Notes of the factor mod			0.14p 0.01	america perpendice generated amain en ese contamient
				Prevents misfolding and promotes the refolding and proper assembly of
Hahella chejuensis KCTC 2396	1494	YP_435739.1	chaperonin GroEL	unfolded polypeptides generated under stress conditions
Alteromonas Macleodii str.				Involved in folding of proteins or the assembly of oligomeric protein
'Deep ecotype'	1489	YP_004429045.1	chaperonin GroEL	complexes
Legionella pneumophila str.			molecular	Promotes refolding of misfolded polypeptides especially under stressful
Lens	1485	YP_126086.1	chaperone GroEL	conditions
				Chaperonin GroEL is an essential molecular chaperone that assists
Logianalla proumanhila etr				protein folding in the cell. With the aid of cochaperonin GroES and ATP,
Legionella pneumophila str. Paris	1485	YP_123081.1	chanaranin CraEl	double ring-shaped GroEL encapsulates non-native substrate proteins inside the cavity of the GroEL-ES complex.
Falls	1400	17_123001.1	Chaperoniin Groet	Inside the cavity of the Groet-E3 complex.
Yersinia pseudotuberculosis				Prevents misfolding and promotes the refolding and proper assembly of
YPIII	1482	YP_001722541.1	chaperonin GroEL	unfolded polypeptides generated under stress conditions
		001/2201111	0.1000.01	Prevents misfolding and promotes the refolding and proper assembly of
				unfolded polypeptides generated under stress conditions. Essential for
				the growth of the bacteria and the assembly of several bacteriophages.
Escherichia coli BL21 Gold DE3				Also plays a role in coupling between replication of the F plasmid and
pLysS AG	1459	YP_003038060.1	chaperonin GroEL	cell division of the cell.
Shewanella pealeana ATCC				
700345	1458	YP_001503535.1	chaperonin GroEL	Required for the proper folding of many proteins
				Prevents misfolding and promotes the refolding and proper assembly of
		\\D_000(4555)		unfolded polypeptides generated under stress conditions. Source:
Aliivibrio salmonicida LFI1238	1445	YP_002261578.1	chaperonin GroEL	UniProt database.
			m ologulor	Drovente miefolding and promotes the refolding and proper assembly of
Daonihasillus nolymyys E401	1 1 2 7	VD 002040E741	molecular	Prevents misfolding and promotes the refolding and proper assembly of
Paenibacillus polymyxa E681	1437	TP_003869574.1	chaperone GroEL	unfolded polypeptides generated under stress conditions

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				Prevents misfolding and promotes the refolding and proper assembly of				
Sulfurimonas autotrophica	1435	YP_003891718.1	chaperonin GroEL	unfolded polypeptides generated under stress conditions.				
Candidatus Liberibacter			molecular					
solanacearum CLso ZC1	1379	YP_004063216.1	chaperone GroEL	Involved in productive protein folding.				
0 "				Prevents misfolding and promotes the refolding and proper assembly of				
Cyanothece_PCC_7425_uid59	4074	VD 0004000504		unfolded polypeptides generated under stress conditions. Oligomer of				
435	1371	YP_002483053.1	chaperonin GroEL	14 subunits composed of two stacked rings of 7 subunits.				
C	1070	VD 001004744.1	-1	Prevents misfolding and promotes the refolding and proper assembly of				
Cyanothece sp. ATCC 51142	1370	YP_001804744.1	chaperonin 2	unfolded polypeptides generated under stress conditions				
				The function of this protein is to assist in the folding, unfolding,				
				assembling, and disassembling of molecules inside the cell, mostly				
				other proteins. Prevents misfolding and promotes the refolding and				
Clostridium phytofermentans	1000	VD 0045 (0000 4	molecular	proper assembly of unfolded polypeptides generated under stress				
ISDg	1338	YP_001560382.1	chaperone GroEL					
Thermanaerovibrio_acidamino	4007	VD 0000477444		It is a chaperone protein, commonly found in bacteria, that assists with				
vorans	1337	YP_003317744.1	cnaperonin GroEL	the proper folding of proteins.				
				Prevents misfolding and promotes the refolding and proper assembly of				
Thermomicrobium roseum	1220	YP_002522505.1	changrapin GroEl	unfolded polypeptides generated under stress conditions				
Thermomicrobian roseam	1329	TF_002522505.1	Chaperonin Grock	difficiated polypeptides generated under stress conditions				
				This protein is inferred by homology as a subunit of the thermosome,				
				which contains up to five subunits, ranging from alpha, beta, to				
Haloquadratum walsbyi DSM			thermosome,	epsilon. This subunit is coded by PL131(?) as a stress protein. The				
16790	486	YP_657160.1	beta subunit	thermosome serves as a chaperoning in protein complex.				
Nitrosopumilus maritimus	700	17_007100.1	Dota Sabarit	Belongs to the TCP-1 chaperonin family - which stabilise or protect				
SCM1	436	YP_001583126.1	thermosome	disassembled polypeptides under heat-shock conditions.				
	.50	00.000.2011		The second secon				
Average score:	1339.65							
3, 3								
The last two rows have unusual	ly low score	es, but I have verifi	ed themkw					
* In Mesorhizobium loti, there v	vere two ed	* In Mesorhizobium loti, there were two equally good matches. The other was NP_085869.1, a chaperonin GroEL.						