

Protein Name	1stmlpribofree Peptides	1stmlpribofree PepHits
<b>30S small Subunit</b>		
sp P0AG67 RS1_ECOLI	23	110
sp P0A7V8 RS4_ECOLI	5	24
sp P0A7W1 RS5_ECOLI	2	13
sp P02358 RS6_ECOLI	4	23
sp P02359 RS7_ECOLI	6	29
sp P0A7W7 RS8_ECOLI	3	21
sp P0A7X3 RS9_ECOLI	x	x
sp P0A7R5 RS10_ECOLI	5	17
sp P0A7R9 RS11_ECOLI	2	4
sp P0A7S3 RS12_ECOLI	5	18
sp P0A7S9 RS13_ECOLI	3	11
sp P0ADZ4 RS15_ECOLI	5	25
sp P0A7T7 RS18_ECOLI	3	17
sp P0A7U7 RS20_ECOLI	3	8

### Ribosomal Maintenance/Translational/Folding

sp P0AEI4 RIMO_ECOLI	6	18
sp P0A6F5 CH60_ECOLI	2	2
sp P0CE47 EFTU1_ECOLI	21	183
sp P0A6M8 EFG_ECOLI	25	82
sp P0A6N8 EFPL_ECOLI	2	6
sp P0A6P1 EFTS_ECOLI	7	15
sp P0CE48 EFTU2_ECOLI	21	183
sp P0CE47 EFTU1_ECOLI	21	183
sp P21499 RNR_ECOLI	2	2
sp P75838 YCAO_ECOLI	19	144
sp P0A6X3 HFQ_ECOLI	5	12
sp P0AEK2 FABG_ECOLI	5	22
sp P0A7L0 RL1_ECOLI	5	14
sp P63284 CLPB_ECOLI	6	11
sp P0A6Y8 DNAK_ECOLI	50	366
sp P0A850 TIG_ECOLI	11	29

### Non-Ribosomal/Transriptional

sp P06612 TOP1_ECOLI	3	6
sp P0A7Z4 RPOA_ECOLI	4	9
sp P0A8V2 RPOB_ECOLI	9	31
sp P0A8T7 RPOC_ECOLI	11	26
sp P0A6W5 GREA_ECOLI	4	12
sp P0AFF6 NUSA_ECOLI	3	5

### Non-Ribosomal/Non- Translational

sp P36683 ACON2_ECOLI	5	8
sp P0A7D4 PURA_ECOLI	4	9

sp P67910 HLDD_ECOLI	26	289
sp P0AE08 AHPC_ECOLI	3	4
sp P68066 GRCA_ECOLI	6	12
sp P24182 ACCC_ECOLI	4	6
sp P0A9A6 FTSZ_ECOLI	2	3
sp P0A6B7 ISCS_ECOLI	2	2
sp P0AES4 GYRA_ECOLI	6	10
sp P0A988 DPO3B_ECOLI	35	938
sp P0A9L3 FKBB_ECOLI	4	10
sp P0A9K9 SLYD_ECOLI	2	25
sp P09373 PFLB_ECOLI	10	17
sp P0A991 ALF1_ECOLI	3	5
sp P0A6T1 G6PI_ECOLI	3	7
sp P23893 GSA_ECOLI	7	20
sp P0A9C5 GLNA_ECOLI	8	19
sp P0A9S5 GLDA_ECOLI	7	21
sp P00961 SYGB_ECOLI	7	16
sp P32132 TYPA_ECOLI	2	5
sp P0A6X7 IHFA_ECOLI	2	7
sp P63284-2 CLPB_ECOLI	6	11
sp P0A8N5 SYK2_ECOLI	2	4
sp P61889 MDH_ECOLI	3	5
sp P31802 NARP_ECOLI	2	4
sp P38489 NFNB_ECOLI	2	4
sp P22259 PCKA_ECOLI	4	10
sp P08839 PT1_ECOLI	5	8
sp P0ADV7 MLAC_ECOLI	4	7
sp P08191 FIMH_ECOLI	2	5
sp P21599 KPYK2_ECOLI	2	4
sp P0A853 TNAA_ECOLI	2	4
sp P37689 GPMI_ECOLI	5	13
sp P12995 BIOA_ECOLI	x	x
sp P0ACF0 DBHA_ECOLI	x	x
sp P0ACF4 DBHB_ECOLI	x	x
sp P0A744 MSRA_ECOLI	x	x
sp P04128 FIMA1_ECOLI	x	x

## Uncharacterized Proteins

sp P0A8W5 YQGE_ECOLI	x	x
sp P76116 YNCE_ECOLI	5	17
sp P0AF93 YJGF_ECOLI	5	35
sp P33355 YEHS_ECOLI	x	X

**2ndmlpribofree Peptides****2ndmlpribofree PepHits****3rdmlpribofree Peptides**

13	25	15
x	x	14
x	x	11
3	9	8
10	45	14
4	9	6
5	22	6
x	x	4
x	x	7
6	46	4
5	16	8
3	7	7
3	11	4
x	x	3
7	16	x
17	58	x
32	1116	18
42	341	19
3	10	x
12	29	4
32	1116	18
32	1116	18
4	5	21
x	x	16
2	10	4
5	15	x
3	5	x
4	8	x
x	x	43
3	7	5
x	x	3
19	88	11
47	131	22
13	21	13
x	x	2
x	x	2
9	18	x
22	109	4

20	92	26
6	21	12
5	13	x
4	8	x
12	32	x
4	10	x
24	76	x
x	x	21
2	5	x
3	14	3
6	11	x
15	40	4
x	x	4
4	4	x
2	3	6
20	172	16
36	102	x
17	55	x
4	10	2
3	6	x
2	4	x
12	43	x
7	23	x
x	x	2
x	x	5
5	10	x
3	8	x
3	14	x
2	2	x
2	2	x
6	14	x
2	2	5
5	16	5
4	13	4
4	14	2
4	22	5
2	7	3
x	x	10
x	x	5
3	7	6

**3rdmlpribofree Pephits****Description**

41	30S ribosomal protein S1 OS=Escherichia coli (strain K12) GN=rpsA P
88	30S ribosomal protein S4 OS=Escherichia coli (strain K12) GN=rpsD P
97	30S ribosomal protein S5 OS=Escherichia coli (strain K12) GN=rpsE P
48	30S ribosomal protein S6 OS=Escherichia coli (strain K12) GN=rpsF P
73	30S ribosomal protein S7 OS=Escherichia coli (strain K12) GN=rpsG P
52	30S ribosomal protein S8 OS=Escherichia coli (strain K12) GN=rpsH P
33	30S ribosomal protein S9 OS=Escherichia coli (strain K12) GN=rpsI P
14	30S ribosomal protein S10 OS=Escherichia coli (strain K12) GN=rpsJ I
25	30S ribosomal protein S11 OS=Escherichia coli (strain K12) GN=rpsK
7	30S ribosomal protein S12 OS=Escherichia coli (strain K12) GN=rpsL I
33	30S ribosomal protein S13 OS=Escherichia coli (strain K12) GN=rpsM
58	30S ribosomal protein S15 OS=Escherichia coli (strain K12) GN=rpsO
35	30S ribosomal protein S18 OS=Escherichia coli (strain K12) GN=rpsR
14	30S ribosomal protein S20 OS=Escherichia coli (strain K12) GN=rpsT
x	Ribosomal protein S12 methylthiotransferase rimO OS=Escherichia c
x	60 kDa chaperonin OS=Escherichia coli (strain K12) GN=groL PE=1 SV
71	Elongation factor Tu 1 OS=Escherichia coli (strain K12) GN=tufA PE=1
59	Elongation factor G OS=Escherichia coli (strain K12) GN=fusA PE=1 S'
x	Elongation factor P-like protein OS=Escherichia coli (strain K12) GN=
8	Elongation factor Ts OS=Escherichia coli (strain K12) GN=tsf PE=1 SV
71	Elongation factor Tu 1 OS=Escherichia coli (strain K12) GN=tufA PE=1
71	Elongation factor Tu 2 OS=Escherichia coli (strain K12) GN=tufB PE=1
60	Ribonuclease R OS=Escherichia coli (strain K12) GN=rnr PE=1 SV=2 [I
87	UPF0142 protein ycaO OS=Escherichia coli (strain K12) GN=ycaO PE=
12	Protein hfq OS=Escherichia coli (strain K12) GN=hfq PE=1 SV=2 [MAS
x	3-oxoacyl-[acyl-carrier-protein] reductase OS=Escherichia coli (strair
x	50S ribosomal protein L1 OS=Escherichia coli (strain K12) GN=rplA P
x	Chaperone protein clpB OS=Escherichia coli (strain K12) GN=clpB PE=
236	Chaperone protein dnaK OS=Escherichia coli (strain K12) GN=dnaK P
7	Trigger factor OS=Escherichia coli (strain K12) GN=tig PE=1 SV=1 [M/
6	DNA topoisomerase 1 OS=Escherichia coli (strain K12) GN=topA PE=
29	DNA-directed RNA polymerase subunit alpha OS=Escherichia coli (st
43	DNA-directed RNA polymerase subunit beta OS=Escherichia coli (str
1	DNA-directed RNA polymerase subunit beta' OS=Escherichia coli (str
3	Transcription elongation factor greA OS=Escherichia coli (strain K12)
4	Transcription elongation protein nusA OS=Escherichia coli (strain K1
x	Aconitate hydratase 2 OS=Escherichia coli (strain K12) GN=acnB PE=
6	Adenylosuccinate synthetase OS=Escherichia coli (strain K12) GN=pu

200 ADP-L-glycero-D-manno-heptose-6-epimerase OS=Escherichia coli (s  
 45 Alkyl hydroperoxide reductase subunit C OS=Escherichia coli (strain  
 x Autonomous glycyl radical cofactor OS=Escherichia coli (strain K12) (s  
 x Biotin carboxylase OS=Escherichia coli (strain K12) GN=accC PE=1 SV  
 x Cell division protein ftsZ OS=Escherichia coli (strain K12) GN=ftsZ PE=1  
 x Cysteine desulfurase OS=Escherichia coli (strain K12) GN=iscS PE=1 SV  
 x DNA gyrase subunit A OS=Escherichia coli (strain K12) GN=gyrA PE=1 SV  
 313 DNA polymerase III subunit beta OS=Escherichia coli (strain K12) GN  
 x FKBP-type 22 kDa peptidyl-prolyl cis-trans isomerase OS=Escherichia coli (strain K12) GN=FKBP22  
 10 FKBP-type peptidyl-prolyl cis-trans isomerase slyD OS=Escherichia coli (strain K12) GN=slyD  
 x Formate acetyltransferase 1 OS=Escherichia coli (strain K12) GN=pflI  
 12 Fructose-bisphosphate aldolase class 1 OS=Escherichia coli (strain K12) GN=fbpA  
 7 Glucose-6-phosphate isomerase OS=Escherichia coli (strain K12) GN=glpI  
 x Glutamate-1-semialdehyde 2,1-aminomutase OS=Escherichia coli (strain K12) GN=glutA  
 14 Glutamine synthetase OS=Escherichia coli (strain K12) GN=glnA PE=1 SV  
 118 Glycerol dehydrogenase OS=Escherichia coli (strain K12) GN=gldA PE=1 SV  
 x Glycyl-tRNA synthetase beta subunit OS=Escherichia coli (strain K12) GN=glyS  
 x GTP-binding protein typA/BipA OS=Escherichia coli (strain K12) GN=typA  
 8 Integration host factor subunit alpha OS=Escherichia coli (strain K12) GN=ihfA  
 x Isoform ClpB-3 of Chaperone protein clpB OS=Escherichia coli (strain K12) GN=clpB  
 x Lysyl-tRNA synthetase, heat inducible OS=Escherichia coli (strain K12) GN=lysS  
 x Malate dehydrogenase OS=Escherichia coli (strain K12) GN=mdh PE=1 SV  
 x Nitrate/nitrite response regulator protein narP OS=Escherichia coli (strain K12) GN=narP  
 6 Oxygen-insensitive NAD(P)H nitroreductase OS=Escherichia coli (strain K12) GN=oxyR  
 15 Phosphoenolpyruvate carboxykinase [ATP] OS=Escherichia coli (strain K12) GN=pepC  
 x Phosphoenolpyruvate-protein phosphotransferase OS=Escherichia coli (strain K12) GN=ptsA  
 x Probable phospholipid-binding protein mlaC OS=Escherichia coli (strain K12) GN=mlaC  
 x Protein fimH OS=Escherichia coli (strain K12) GN=fimH PE=1 SV=2 [N  
 x Pyruvate kinase II OS=Escherichia coli (strain K12) GN=pykA PE=1 SV  
 x Tryptophanase OS=Escherichia coli (strain K12) GN=tnaA PE=1 SV=1  
 x 2,3-bisphosphoglycerate-independent phosphoglycerate mutase OS  
 14 Adenosylmethionine-8-amino-7-oxononanoate aminotransferase OS=Escherichia coli (strain K12) GN=metK  
 22 DNA-binding protein HU-alpha OS=Escherichia coli (strain K12) GN=hud  
 11 DNA-binding protein HU-beta OS=Escherichia coli (strain K12) GN=huf  
 3 Peptide methionine sulfoxide reductase msrA OS=Escherichia coli (strain K12) GN=msrA  
 72 Type-1 fimbrial protein, A chain OS=Escherichia coli (strain K12) GN=fimA

10 UPF0301 protein yqgE OS=Escherichia coli (strain K12) GN=yqgE PE=1 SV=1  
 27 Uncharacterized protein YncE OS=Escherichia coli (strain K12) GN=yncE  
 16 UPF0076 protein yjgF OS=Escherichia coli (strain K12) GN=yjgF PE=1 SV=1  
 20 Uncharacterized protein yehS OS=Escherichia coli (strain K12) GN=yehS

PE=1 SV=1 [MASS=61158]  
PE=1 SV=2 [MASS=23469]  
E=1 SV=2 [MASS=17603]  
E=1 SV=1 [MASS=15703]  
PE=1 SV=3 [MASS=20019]  
PE=1 SV=2 [MASS=14127]  
E=1 SV=2 [MASS=14856]  
PE=1 SV=1 [MASS=11736]  
PE=1 SV=2 [MASS=13845]  
PE=1 SV=2 [MASS=13737]  
1 PE=1 SV=2 [MASS=13099]  
PE=1 SV=2 [MASS=10269]  
PE=1 SV=2 [MASS=8986]  
PE=1 SV=2 [MASS=9684]

coli (strain K12) GN=rpoA PE=1 SV=1 [MASS=49582]  
/2 [MASS=57329]  
1 SV=1 [MASS=43284]  
V=2 [MASS=77581]  
yep PE=1 SV=1 [MASS=21533]  
=2 [MASS=30423]  
1 SV=1 [MASS=43284]  
1 SV=1 [MASS=43314]  
MASS=92109]  
=3 SV=2 [MASS=65652]  
SS=11166]  
r K12) GN=fabG PE=1 SV=1 [MASS=25560]  
E=1 SV=2 [MASS=24730]  
=1 SV=1 [MASS=95585]  
PE=1 SV=2 [MASS=69115]  
ASS=48193]

1 SV=2 [MASS=97350]  
rain K12) GN=rpoA PE=1 SV=1 [MASS=36512]  
ain K12) GN=rpoB PE=1 SV=1 [MASS=150632]  
rain K12) GN=rpoC PE=1 SV=1 [MASS=155160]  
) GN=greA PE=1 SV=1 [MASS=17641]  
2) GN=nusA PE=1 SV=1 [MASS=54871]

1 SV=3 [MASS=93498]  
rA PE=1 SV=2 [MASS=47345]

strain K12) GN=hldD PE=1 SV=1 [MASS=34893]  
K12) GN=ahpC PE=1 SV=2 [MASS=20761]  
GN=grcA PE=1 SV=1 [MASS=14284]  
/=2 [MASS=49321]  
=1 SV=1 [MASS=40324]  
sV=1 [MASS=45089]  
l SV=1 [MASS=96964]  
=dnaN PE=1 SV=1 [MASS=40587]  
coli (strain K12) GN=fkIB PE=1 SV=2 [MASS=22216]  
oli (strain K12) GN=slyD PE=1 SV=1 [MASS=20853]  
B PE=1 SV=2 [MASS=85357]  
12) GN=fbaB PE=1 SV=2 [MASS=38109]  
=pgi PE=1 SV=1 [MASS=61530]  
train K12) GN=hemL PE=1 SV=2 [MASS=45366]  
1 SV=2 [MASS=51904]  
=1 SV=1 [MASS=38712]  
) GN=glyS PE=1 SV=4 [MASS=76813]  
typA PE=1 SV=2 [MASS=67355]  
) GN=ihfA PE=1 SV=1 [MASS=11354]  
r K12) GN=clpB [MASS=79870]  
2) GN=lysU PE=1 SV=2 [MASS=57827]  
=1 SV=1 [MASS=32337]  
strain K12) GN=narP PE=3 SV=1 [MASS=23575]  
ain K12) GN=nfnB PE=1 SV=1 [MASS=23905]  
in K12) GN=pckA PE=1 SV=2 [MASS=59643]  
:oli (strain K12) GN=ptsI PE=1 SV=1 [MASS=63562]  
:ain K12) GN=mlaC PE=1 SV=1 [MASS=23963]  
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'=3 [MASS=51357]  
[MASS=52773]  
i=Escherichia coli (strain K12) GN=gpmI PE=1 SV=1 [MASS=56194]  
S=Escherichia coli (strain K12) GN=bioA PE=1 SV=2 [MASS=47336]  
hupA PE=1 SV=1 [MASS=9535]  
upB PE=1 SV=1 [MASS=9226]  
train K12) GN=msrA PE=1 SV=2 [MASS=23315]  
=fimA PE=1 SV=2 [MASS=18111]

:1 SV=1 [MASS=20686]  
ncE PE=1 SV=1 [MASS=38613]  
SV=2 [MASS=13612]  
ehS PE=4 SV=1 [MASS=17973]