Supplementary Table 11. Comparison of the number of peptides of the genetic information processing proteins identified in OD 0.7 and 1.2

	Locus name	Gene name	Protein description	Total no. peptides OD 0.7	Total no. peptides OD 1.2	OD 0.7/1.2
Transcription	**RNA polymerase**					
	rrnAC0067	*rpoN*	DNA-directed RNA polymerase subunit N	2	0	∞
	rrnAC2829	*rpoE*	DNA-directed RNA polymerase subunit E'	22	7	3.1 *
	rrnAC2432	*rpoH*	DNA-directed RNA polymerase subunit H	9	3	3.0 *
	rrnAC2428	*rpoA*	DNA-directed RNA polymerase	70	41	1.7
	rrnAC2430	*rpoB*	DNA-directed RNA polymerase subunit B	54	34	1.6
	rrnAC2830	*rpoE*	DNA-directed RNA polymerase subunit E	3	2	1.5
	rrnAC2429	*rpoB*	DNA-directed RNA polymerase beta subunit	56	40	1.4
	rrnAC2427	*rpoC*	RNA polymerase Rpb1 domain 5	22	16	1.4
	rrnAC0259	*rpb4*	RNA polymerase Rpb4	20	17	1.2
	rrnAC1396	*rpoL*	DNA-directed RNA polymerase subunit L	4	4	1.0
	rrnAC0062	*rpoD*	DNA-directed RNA polymerase subunit D	4	7	0.6
	rrnAC0218	*rpoM*	DNA-directed RNA-polymerase subunit M	0	1	0
	Basal transcription factors					
	rrnAC0016	*tfbA*	Transcription initiation factor IIB	4	0	∞
	rrnAC0861	*tfeA*	Transcription initiation factor IIE alpha subunit	9	3	3.0 *
	rrnAC0681	*tbpE*	TATA-box binding protein E	22	12	1.8
	Transcription factors					
	rrnAC2744	*rrnAC274*	Hypothetical protein	5	3	1.7
	pNG2007	*pNG2007*	Hypothetical protein	18	11	1.6
	rrnAC1133	*rpaA*	Replication protein A	12	17	0.7
	rrnAC1765	*tenA*	Transcriptional activator tenA	3	21	0.1 *
	rrnAC0001	*birA*	Biotin-(acetyl-CoA carboxylase) ligase	0	5	0
	rrnAC1767	*tenA-2*	Transcriptional regulator putative	0	9	0
	rrnAC0496	*sirR*	Transcription repressor	1	0	∞
	rrnAC1715	*cspD1*	Cold shock protein	1	0	∞
	rrnAC2339	*cspD3*	Cold shock protein	50	12	4.2
	rrnAC1714	*cspD5*	Cold shock protein	3	1	3.0
	rrnAC1269	*asnC2*	Transcription regulator AsnC family	5	2	2.5
	rrnAC3264	*rrnAC326*	Putative molybdenum-binding protein	1	2	0.5
	rrnAC2283	*copG1*	Transcriptional regulator CopG family	0	1	0
Translation	**Ribosome**					
	rrnAC1596	*rpl6p*	50S ribosomal protein L6P	5	0	∞
	rrnAC1418	*rpl12p*	50S ribosomal protein L12P	3	0	∞
	rrnAC1607	*rps19p*	30S ribosomal protein S19P	12	2	6.0 *
	rrnAC1604	*rpl29p*	50S ribosomal protein L29P	5	1	5.0 *
	rrnAC0059	*rps4p*	30S ribosomal protein S4P	27	7	3.9 *
	rrnAC0061	*rps11p*	30S ribosomal protein S11P	23	6	3.8 *
	rrnAC1598	*rpl5p*	50S ribosomal protein L5P	13	4	3.3 *
	rrnAC0058	*rps13p*	30S ribosomal protein S13P	21	8	2.6
	rrnAC2488	*rps24e*	30S ribosomal protein S24e	16	6	2.7
	rrnAC1605	*rps3p*	30S ribosomal protein S3P	53	21	2.5
	rrnAC1417	*rplP0*	50S ribosomal protein L10E	17	8	2.1
	rrnAC1429	*rps3Ae*	30S ribosomal protein S3Ae	80	39	2.1
	rrnAC1600	*rps4e*	30S ribosomal protein S4E	34	17	2.0
	rrnAC2212	*rps6e*	30S ribosomal protein S6e	14	7	2.0
	rrnAC1610	*rpl4p*	50S ribosomal protein L4P	2	1	2.0
	rrnAC2357	*rpl10e*	50S ribosomal protein L10e	14	7	2.0
	rrnAC1592	*rps5p*	30S ribosomal protein S5P	63	35	1.8
	rrnAC1611	*rpl3p*	50S ribosomal protein L3P	91	57	1.6
	rrnAC0064	*rpl18e*	50S ribosomal protein L18e	41	26	1.6
	rrnAC1595	*rpl32e*	50S ribosomal protein L32e	8	5	1.6
	rrnAC1426	*rps15p*	30S ribosomal protein S15P/S13e	18	12	1.5
	rrnAC3179	*rps19e*	30S ribosomal protein S19e	22	15	1.5
	rrnAC0070	*rps2p*	30S ribosomal protein S2P	26	18	1.4
	rrnAC2065	*rpl15e*	50S ribosomal protein L15e	16	11	1.5
	rrnAC1608	*rpl2p*	50S ribosomal protein L2P	24	17	1.4
	rrnAC3112	*rpl39e*	50S ribosomal protein L39e	7	5	1.4
	rrnAC1511	*rps8e*	30S ribosomal protein S8e	12	9	1.3
	rrnAC1591	*rpl30p*	50S ribosomal protein L30P	9	7	1.3
	rrnAC1603	*rps17p*	30S ribosomal protein S17P	10	8	1.3
	rrnAC0260	*rpl21e*	50S ribosomal protein L21e	5	4	1.3
	rrnAC0055	*rps17e*	30S ribosomal protein S17e	6	5	1.2
	rrnAC1606	*rpl22p*	50S ribosomal protein L22P	12	10	1.2
	rrnAC0065	*rpl13p*	50S ribosomal protein L13P	30	27	1.1
	rrnAC1597	*rps8p*	30S ribosomal protein S8P	7	7	1.0
	rrnAC2424	*rps12p*	30S ribosomal protein S12P	15	15	1.0
	rrnAC0103	*rpl7ae*	50S ribosomal protein L7Ae	16	16	1.0
	rrnAC2423	*rps7p*	30S ribosomal protein S7P	35	40	0.9
	rrnAC1602	*rpl14p*	50S ribosomal protein L14P	21	29	0.7
	rrnAC3113	*rpl31e*	50S ribosomal protein L31e	4	6	0.7
	rrnAC1415	*rpl1p5*	50S ribosomal protein L1P	1	2	0.5
	rrnAC1594	*rpl19e*	50S ribosomal protein L19e	2	5	0.4
	rrnAC1590	*rpl15p*	50S ribosomal protein L15P	10	28	0.4
	rrnAC2405	*rps10p*	30S ribosomal protein S10P	1	3	0.3 *
	rrnAC3513	*rps27E*	30S ribosomal protein S27e	1	3	0.3 *
	rrnAC1609	*rpl23p*	50S ribosomal protein L23P	1	0	∞
	rrnAC0066	*rps9p*	30S ribosomal protein S9P	6	3	2.0
	rrnAC1414	*rpl11p*	50S ribosomal protein L11P	2	1	2.0
	rrnAC1593	*rpl18p*	50S ribosomal protein L18P	3	3	1.0
	rrnAC2489	*rps27ae*	30S ribosomal protein S27ae	0	1	0
	rrnAC1601	*rpl24p*	50S ribosomal protein L24P	0	1	0
	Translation factors					
	rrnAC0261	*ef1b*	Elongation factor 1-beta	13	6	2.2
	rrnAC3164	*prf1*	Peptide chain release factor subunit 1	11	6	1.8
	rrnAC1956	*eif2BD2*	Translation initiation factor eIF-2B subunit delta	10	7	1.4
	rrnAC2413	*fusA*	Elongation factor 2	148	141	1.1
	rrnAC2474	*eif1a*	Translation initiation factor 1A	19	19	1.0
	rrnAC2827	*eif2g*	Translation initiation factor 2 gamma subunit	11	11	1.0
	rrnAC1929	*eif5a*	Translation initiation factor 5A	13	13	1.0
	rrnAC2445	*sui1*	Protein translation factor SUI1 homolog	9	9	1.0
	rrnAC0289	*eif2BD1*	Translation initiation factor eIF-2B subunit delta	16	19	0.8
	rrnAC2406	*tuf*	Elongation factor 1-alpha	141	222	0.6
	rrnAC3512	*eif2a*	Translation initiation factor 2 alpha subunit	8	13	0.6
	rrnAC0138	*eif2B1*	Probable translation initiation factor 2 beta	4	7	0.6
	rrnAC1619	*gbp2*	GTP-binding protein-like	2	5	0.4
	rrnAC3203	*infB*	Probable translation initiation factor IF-2	3	10	0.3 *
	Aminoacyl-tRNA biosynthesis					
	rrnAC2967	*pheT*	Phenylalanyl-tRNA synthetase beta chain	20	15	1.3
	rrnAC3462	*thrS*	Threonyl-tRNA synthetase	15	12	1.3
	rrnAC1800	*metG*	Methionyl-tRNA synthetase	24	20	1.2
	rrnAC3173	*lysS*	Lysyl-tRNA synthetase	6	5	1.2
	rrnAC2966	*pheS*	Phenylalanyl-tRNA synthetase alpha chain	7	6	1.2
	rrnAC2650	*leuS1*	Leucyl-tRNA synthetase	16	14	1.1
	rrnAC2808	*serS*	Seryl-tRNA synthetase	19	17	1.1
	rrnAC0166	*proS*	Prolyl-tRNA synthetase	19	18	1.1
	rrnAC3169	*argS*	Arginyl-tRNA synthetase	25	24	1.0
	rrnAC0023	*gatE*	Glutamyl-tRNA synthetase	12	12	1.0
	rrnAC2965	*trpS*	Tryptophanyl-tRNA synthetase	11	11	1.0
	rrnAC0085	*gltX*	Glutamyl-tRNA synthetase	10	11	0.9
	rrnAC1356	*gatC*	Glutamyl-tRNA synthetase	9	11	0.8
	rrnAC2561	*alaS*	Alanyl-tRNA synthetase	12	15	0.8
	rrnAC1642	*gatB*	Aspartyl/glutamyl-tRNA synthetase	15	19	0.8
	rrnAC1657	*aspS*	Aspartyl-tRNA synthetase	40	52	0.8
	rrnAC2947	*leuS2*	Leucyl-tRNA synthetase	35	46	0.8
Translation	**Aminoacyl-tRNA biosynthesis (continued)**					
	rrnAC1355	*gatA*	Glutamyl-tRNA synthetase	3	4	0.8
	rrnAC3183	*hisS*	Histidyl-tRNA synthetase	9	13	0.7
	rrnAC0543	*tyrS*	Tyrosyl-tRNA synthetase	8	14	0.6
	rrnAC2634	*ileS*	Isoleucyl-tRNA synthetase	25	45	0.6
	rrnAC1729	*valS*	Valyl-tRNA synthetase	8	18	0.4
	rrnAC0517	*alaS2*	Alanyl-tRNA synthetase	6	14	0.4
	rrnAC2701	*glyS*	Glycyl-tRNA synthetase	6	14	0.4
	rrnAC3442	*asbA*	L-asparaginase	0	7	0
	rrnAC1292	*cysS*	Cysteinyl-tRNA synthetase	0	5	0
Folding, Sorting and Degradation	**Chaperones and folding catalysts**					
	rrnAC1308	*rrnAC130*	Glutaredoxin	20	19	1.1
	rrnAC3116	*pfdA*	Prefoldin alpha subunit	33	33	1.0
	rrnAC3303	*ppiB1*	Peptidyl-prolyl cis-trans isomerase	25	25	1.0
	rrnAC1680	*pfdB*	Prefoldin beta subunit	30	31	1.0
	rrnAC2110	*trxA3*	Thioredoxin	26	27	1.0
	rrnAC3339	*dnaK*	Chaperone protein dnaK	57	71	0.8
	rrnAC1230	*slyD*	Peptidyl-prolyl cis-trans isomerase	43	57	0.8
	rrnAC3340	*grpE*	Heat shock protein GrpE protein	3	7	0.4
	Ubiquitin system					
	rrnAC1773	*psmA2*	Proteasome alpha subunit	47	20	2.4
	rrnAC0442	*psmA3*	Proteasome subunit alpha	6	4	1.5
	rrnAC3190	*pan1*	Proteasome-activating nucleotidase 1	12	8	1.5
	rrnAC1174	*psmA1*	Proteasome alpha subunit	50	38	1.3
	rrnAC3546	*pan2*	Proteasome-activating nucleotidase 2	21	26	0.8
	rrnAC1772	*psmA*	Proteasome subunit alpha	5	9	0.6
	RNA degradation					
	rrnAC0069	*eno*	Enolase	24	23	1.0
	rrnAC2072	*vacB*	Ribonuclease R	10	12	0.8
	rrnAC3339	*dnaK*	Chaperone protein dnaK	57	71	0.8
	pNG7302	*ppk*	Polyphosphate kinase	0	8	0
Replication and Repair	**DNA replication**					
	rrnAC2744	*rrnAC274*	Hypothetical protein	5	3	1.7
	pNG2007	*pNG2007*	Hypothetical protein	18	11	1.6
	rrnAC2851	*pcn*	DNA polymerase sliding clamp	24	33	0.7
	rrnAC1133	*rpaA*	Replication protein A	12	17	0.7
	DNA replication proteins					
	rrnAC0455	*gyrA*	DNA gyrase subunit A	13	4	3.2 *
	rrnAC2691	*polC*	DNA polymerase II large subunit	3	1	3.0 *
	rrnAC1645	*topA*	DNA topoisomerase I	4	2	2.0
	rrnAC2565	*rfcS*	Replication factor C small subunit	12	7	1.7
	rrnAC0457	*top6B*	Type II DNA topoisomerase VI subunit B	37	24	1.5
	rrnAC0456	*gyrB*	DNA gyrase subunit B	7	5	1.4
	rrnAC2487	*rfcC2*	Replication factor C small subunit	5	4	1.3
	rrnAC1831	*polB1*	DNA polymerase B elongation subunit	1	2	0.5
	rrnAC0459	*top6A*	Type II DNA topoisomerase VI subunit A	2	5	0.4
	rrnAC2762	*mcm2*	Cell division control protein 21	1	1	1.0
	rrnAC0292	*priA*	Probable DNA primase small subunit	0	1	0
	Chromosome					
	rrnB0062	*parA3*	Chromosome partitioning protein ParA family	2	0	∞
	rrnAC0974	*rrnAC097*	Hypothetical protein	3	0	∞
	rrnAC2004	*ftsZ3*	Cell division protein FtsZ	9	5	1.8
	rrnAC0665	*abcP-2*	ABC transporter permease protein	5	5	1.0
	rrnAC0703	*ftsZ1*	Cell division protein FtsZ	19	23	0.8
	pNG6012	*parA2*	Partition protein	7	9	0.8
	rrnAC0056	*mrp1*	Mrp protein-like	5	7	0.7
	rrnAC1639	*smc2*	Chromosome segregation protein	1	0	∞
	pNG2014	*sojC*	Chromosome partitioning protein	0	2	0
	Base excision repair					
	rrnAC2015	*nfo*	Probable endonuclease 4	3	2	1.5
	pNG7116	*nthC*	Endonuclease III	4	4	1.0
	rrnAC2851	*pcn*	DNA polymerase sliding clamp	24	33	0.7
	rrnAC0265	*apl*	AP-endonuclease/AP-lyase	4	7	0.6
	rrnAC0739	*nthA*	Endonuclease III	1	1	1.0
	rrnAC1088	*alkA*	DNA-3-methyladenine glycosylase	0	2	0
	Nucleotide excision repair					
	rrnAC2996	*uvrB*	UvrABC system protein B	2	0	∞
	rrnAC2267	*uvrD*	Repair helicase	27	9	3.0 *
	rrnAC2116	*uvrA*	Excinuclease ABC subunit A	14	8	1.8
	rrnAC2744	*rrnAC274*	Hypothetical protein	5	3	1.7
	pNG2007	*pNG2007*	Hypothetical protein	18	11	1.6
	rrnAC2851	*pcn*	DNA polymerase sliding clamp	24	33	0.7
	rrnAC1133	*rpaA*	Replication protein A	12	17	0.7
	Mismatch repair					
	rrnB0041	*xseA2*	Probable exodeoxyribonuclease VII large subunit	3	0	∞
	rrnAC2267	*uvrD*	Repair helicase	27	9	3.0 *
	rrnAC2532	*mutS1*	DNA mismatch repair protein mutS 1	2	1	2.0
	rrnAC2744	*rrnAC274*	Hypothetical protein	5	3	1.7
	pNG2007	*pNG2007*	Hypothetical protein	18	11	1.6
	rrnAC2851	*pcn*	DNA polymerase sliding clamp	24	33	0.7
	rrnAC1133	*rpaA*	Replication protein A	12	17	0.7
	rrnAC2550	*mutL*	DNA mismatch repair protein mutL	2	3	0.7
	pNG6094	*xseA1*	Probable exodeoxyribonuclease VII large subunit	0	2	0
	Homologous recombination					
	rrnAC2744	*rrnAC274*	Hypothetical protein	5	3	1.7
	pNG2007	*pNG2007*	Hypothetical protein	18	11	1.6
	rrnAC1133	*rpaA*	Replication protein A	12	17	0.7
	DNA repair and recombination proteins					
	rrnAC2996	*uvrB*	UvrABC system protein B	2	0	∞
	rrnB0041	*xseA2*	Probable exodeoxyribonuclease VII large subunit	3	0	∞
	rrnAC0455	*gyrA*	DNA gyrase subunit A	13	4	3.3 *
	rrnAC2267	*uvrD*	Repair helicase	27	9	3.0 *
	rrnAC0832	*phrB1*	Deoxyribodipyrimidine photolyase	2	1	2.0
	rrnAC2159	*dcd3*	Probable deoxyuridine 5'-triphosphate nucleotidohydrolase	2	1	2.0
	rrnAC2532	*mutS1*	DNA mismatch repair protein mutS 1	2	1	2.0
	rrnAC1840	*smc1*	Structural maintenance of chromosomes	2	1	2.0
	rrnAC2847	*hjr*	Holliday junction resolvase	4	2	2.0
	rrnAC1645	*topA*	DNA topoisomerase I	4	2	2.0
	rrnAC2116	*uvrA*	Excinuclease ABC subunit A	14	8	1.8
	rrnAC2744	*rrnAC274*	Hypothetical protein	5	3	1.7
	pNG2007	*pNG2007*	Hypothetical protein	18	11	1.6
	rrnAC2015	*nfo*	Probable endonuclease 4	3	2	1.5
	rrnAC0456	*gyrB*	DNA gyrase subunit B	7	5	1.4
	rrnAC1622	*nrdA*	Ribonucleoside-diphosphate reductase alpha chain	108	91	1.2
	rrnAC0669	*polX*	DNA polymerase IV	9	8	1.1
	pNG7116	*nthC*	Endonuclease III	4	4	1.0
	rrnAC2910	*radA*	DNA repair and recombination protein RadA	25	27	0.9
	rrnAC2851	*pcn*	DNA polymerase sliding clamp	24	33	0.7
	rrnAC1133	*rpaA*	Replication protein A	12	17	0.7
	rrnAC2550	*mutL*	DNA mismatch repair protein mutL	2	3	0.7
	rrnAC0265	*apl*	AP-endonuclease/AP-lyase	4	7	0.6
	pNG6094	*xseA1*	Probable exodeoxyribonuclease VII large subunit	0	2	0
	rrnAC1532	*radB*	DNA repair and recombination protein RadB	1	0	∞
	rrnAC0739	*nthA*	Endonuclease III	1	1	1.0
	rrnAC1088	*alkA*	DNA-3-methyladenine glycosylase	0	2	0

Protein with single unique peptide identified once or multiple times are shaded.