

Table 3. Cytoplasmic proteins observed in the extracellular fractions of *S. coelicolor* identified by either two-dimensional gel electrophoresis and/or multidimensional protein identification technology

SCO number	Method of observation	Annotation
SCO0256	MudPIT (Mutual)	Putative short chain oxidoreductase
SCO0168	2D	Possible regulator protein
SCO0179	2D	Putative zinc-containing dehydrogenase
SCO0180	2D	Conserved hypothetical protein SCJ1.29c
SCO0199	2D	Putative alcohol dehydrogenase
SCO0204	2D	Putative luxR family two-component response regulator
SCO0260	2D and MudPIT (Δ <i>tatC</i>)	Conserved hypothetical protein
SCO0379 [†]	2D and MudPIT (Mutual)	Catalase (EC 1.11.1.6)
SCO0400	2D	Putative epimerase
SCO0492	MudPIT (Δ <i>tatC</i>)	Putative peptide synthetase
SCO0499 [†]	MudPIT (Δ <i>tatC</i>)	Putative formyltransferase
SCO0525	MudPIT (Δ <i>tatC</i>)	Conserved hypothetical protein SCF11.05
SCO0527	2D and MudPIT (mutual)	Cold shock protein
SCO0570	MudPIT (Δ <i>tatC</i>)	50S ribosomal protein L33
SCO0592	2D	Hypothetical protein SCF55.16c
SCO0596	2D	Putative DNA-binding protein
SCO0597	2D	Conserved hypothetical protein SCF55.21c
SCO0640	MudPIT (Δ <i>tatC</i>)	Conserved hypothetical protein SCF56.24c
SCO0641	MudPIT (mutual)	Tellurium resistance protein
SCO0682	MudPIT (M145)	Hypothetical protein SCF15.03c
SCO0714	2D	Putative oxidoreductase
SCO0740	2D	Putative hydrolase
SCO0741	2D	Putative oxidoreductase
SCO0788	MudPIT (mutual)	Hypothetical protein 3SCF60.20c
SCO0797	2D	Putative integral membrane protein.
SCO0852	2D and MudPIT (Δ <i>tatC</i>)	Putative aldolase
SCO0870	MudPIT (M145)	Putative two-component system response regulator
SCO0884	MudPIT (Δ <i>tatC</i>)	Probable oxidoreductase
SCO0885	MudPIT (Δ <i>tatC</i>)	Thioredoxin
SCO0906	2D	Hypothetical protein SCM1.39c
SCO0945	2D	Putative formamidopyrimidine-DNA glycosylase
SCO0975	MudPIT (M145)	6-phosphogluconate 1-dehydrogenase
SCO0977	MudPIT (mutual)	Conserved hypothetical protein
SCO0999	MudPIT (mutual)	Superoxide dismutase
SCO1081	2D and MudPIT (Δ <i>tatC</i>)	Putative electron transfer flavoprotein, alpha subunit
SCO1082	MudPIT (Δ <i>tatC</i>)	Putative electron transfer flavoprotein, beta subunit
SCO1085	MudPIT (Δ <i>tatC</i>)	Putative acyltransferase
SCO1116	MudPIT (mutual)	Hypothetical protein
SCO1123	2D and MudPIT (Δ <i>tatC</i>)	Hypothetical protein 2SCG38.16
SCO1198	MudPIT (Δ <i>tatC</i>)	Putative acyl-CoA dehydrogenase
SCO1199	MudPIT (Δ <i>tatC</i>)	Putative oxidoreductase

SCO1337	MudPIT (M145)	Putative oxidoreductase
SCO1384	2D and MudPIT (mutual)	Conserved hypothetical protein
SCO1390	MudPIT (mutual)	Putative PTS system sugar phosphotransferase component IIA
SCO1391	MudPIT (M145)	Phosphoenolpyruvate-protein phosphotransferase
SCO1438	2D	ATP phosphoribosyltransferase
SCO1453	MudPIT (Δ atC)	Hypothetical protein
SCO1462	MudPIT (M145)	Hypothetical protein SCL6.19c
SCO1476	2D	S-adenosylmethionine synthetase
SCO1480	MudPIT (mutual)	Conserved hypothetical protein
SCO1489	2D	Putative DNA-binding protein
SCO1496	2D	Chorismate synthase
SCO1505	MudPIT (mutual)	30S ribosomal protein S4
SCO1508	2D	Histidyl tRNA synthetase
SCO1569	MudPIT (Δ atC)	Putative oxidoreductase
SCO1594	MudPIT (mutual)	Putative phenylalanyl-tRNA synthetase beta chain
SCO1598	MudPIT (M145)	50S ribosomal protein L20
SCO1600	MudPIT (M145)	Putative translation initiation factor IF-3
SCO1620	MudPIT (Δ atC)	Glycine betaine transport system permease protein
SCO1623	MudPIT (M145)	Conserved hypothetical protein SCI41.06
SCO1626	MudPIT (mutual)	Putative cytochrome P450
SCO1628	MudPIT (M145)	Conserved hypothetical protein
SCO1643	MudPIT (mutual)	20S proteasome alpha-subunit
SCO1644	MudPIT (mutual)	20S proteasome beta-subunit precursor
SCO1646	MudPIT (mutual)	Hypothetical protein
SCO1651	MudPIT (M145)	Conserved hypothetical protein SCI41.34c
SCO1654	2D	Putative two-component response regulator
SCO1766	MudPIT (M145)	Putative glycohydrolase
SCO1767	2D	Putative DNA hydrolase
SCO1773	2D	Putative L-alanine dehydrogenase
SCO1775	2D	Conserved hypothetical protein
SCO1788	MudPIT (mutual)	Conserved hypothetical protein
SCO1794	2D and MudPIT (M145)	Conserved hypothetical protein
SCO1809	MudPIT (mutual)	Conserved hypothetical protein
SCO1839	MudPIT (mutual)	Putative transcriptional regulator
SCO1870	MudPIT (M145)	Hypothetical protein SCI39.17c
SCO1921	MudPIT (mutual)	Putative aminotransferase
SCO1922	MudPIT (mutual)	Putative ABC transporter ATP-binding subunit
SCO1923	MudPIT (mutual)	Putative dioxygenase ferredoxin subunit
SCO1935	2D	Transketolase A
SCO1936	MudPIT (mutual)	Putative transaldolase
SCO1937	2D	Putative glucose-6-phosphate 1-dehydrogenase
SCO1945 [†]	2D and MudPIT (mutual)	Triosephosphate isomerase
SCO1946	2D and MudPIT (mutual)	Phosphoglycerate kinase
SCO1947 [†]	2D and MudPIT (mutual)	Glyceraldehyde-3-phosphate dehydrogenase
SCO1998	2D and MudPIT (mutual)	30S ribosomal protein S1

SCO2011	MudPIT (M145)	Putative branched chain amino acid transport ATP-binding protein
SCO2012	MudPIT (mutual)	Putative branched chain amino acid transport ATP-binding protein
SCO2039	MudPIT (M145)	Indoleglycerol phosphate synthase
SCO2045	2D	Conserved hypothetical protein
SCO2050	MudPIT (M145)	Phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase
SCO2077	MudPIT ($\Delta tatC$)	Hypothetical protein
SCO2105	MudPIT ($\Delta tatC$)	Putative transcriptional regulatory protein
SCO2126	MudPIT ($\Delta tatC$)	Glucokinase
SCO2149	MudPIT (M145)	Rieske iron-sulfur protein
SCO2167	MudPIT ($\Delta tatC$)	Hypothetical protein
SCO2168	MudPIT ($\Delta tatC$)	Hypothetical protein
SCO2180 [†]	2D and MudPIT (mutual)	Putative dihydrolipoamide dehydrogenase
SCO2181	2D and MudPIT (M145)	Putative dihydrolipoamide succinyltransferase
SCO2183	MudPIT ($\Delta tatC$)	Putative pyruvate dehydrogenase E1 component
SCO2198 [†]	2D and MudPIT (mutual)	Glutamine synthetase I
SCO2206	MudPIT (M145)	ArsC, arsenate reductase
SCO2210	2D and MudPIT (M145)	Glutamine synthetase
SCO2262	2D and MudPIT (M145)	Putative oxidoreductase
SCO2265	MudPIT ($\Delta tatC$)	Hypothetical protein SCC75A.11c.
SCO2339	MudPIT (mutual)	Hypothetical protein
SCO2367	2D and MudPIT (mutual)	Conserved hypothetical protein
SCO2368	2D and MudPIT (mutual)	Conserved hypothetical protein
SCO2369	MudPIT ($\Delta tatC$)	Putative thiol-specific antioxidant protein
SCO2370	MudPIT (mutual)	Conserved hypothetical protein
SCO2380	MudPIT ($\Delta tatC$)	Conserved hypothetical protein SC4A7.08
SCO2382	MudPIT ($\Delta tatC$)	Hypothetical protein SC4A7.10
SCO2389	MudPIT (mutual)	Acyl carrier protein
SCO2394	2D and MudPIT (M145)	Putative secreted protein
SCO2407	2D	Putative aldose 1-epimerase
SCO2469	MudPIT (mutual)	Putative reductase
SCO2504	2D	Glycyl-tRNA synthetase
SCO2506	MudPIT ($\Delta tatC$)	Putative metal transport ABC transporter
SCO2529	2D	Putative metalloprotease.
SCO2548	MudPIT (mutual)	Putative Hit-family protein.
SCO2554	MudPIT (M145)	DnaJ protein.
SCO2576	MudPIT ($\Delta tatC$)	Phosphoglycerate mutase
SCO2582	MudPIT (mutual)	Conserved hypothetical protein SCC123.20.
SCO2596	MudPIT (mutual)	50S ribosomal protein L27
SCO2597	MudPIT (M145)	Ribosomal protein L21
SCO2612	2D and MudPIT (M145)	Nucleoside diphosphate kinase
SCO2627	MudPIT ($\Delta tatC$)	Putative sugar-phosphate isomerase
SCO2633	2D and MudPIT (mutual)	Superoxide dismutase [Fe-Zn] (EC 1.15.1.1)
SCO2634	MudPIT (mutual)	Conserved hypothetical protein SC8E4A.04c
SCO2635	MudPIT ($\Delta tatC$)	Putative aminopeptidase

SCO2643 [†]	MudPIT (mutual)	Aminopeptidase N
SCO2696	MudPIT (M145)	Putative 2-hydroxyacid-family dehydrogenase
SCO2736 [†]	MudPIT (mutual)	Citrate synthase.
SCO2822	2D and MudPIT (M145)	Putative decarboxylase
SCO2849	MudPIT (M145)	Conserved hypothetical protein SCE20.23.
SCO2901	2D and MudPIT (mutual)	Hypothetical protein
SCO2902	2D	Conserved hypothetical protein
SCO2904	2D and MudPIT (mutual)	Putative ribonuclease PH
SCO2905	MudPIT (mutual)	Hypothetical protein
SCO2911	MudPIT (mutual)	Conserved hypothetical protein
SCO2950	MudPIT (mutual)	DNA-binding protein Hu (hs1)
SCO2951	2D and MudPIT (mutual)	Putative malate oxidoreductase
SCO2999	MudPIT (<i>ΔtatC</i>)	Conserved hypothetical protein
SCO3023	MudPIT (M145)	Adenosylhomocysteinase
SCO3027	MudPIT (mutual)	Hypothetical protein SCD84.08c
SCO3096 [†]	2D and MudPIT (mutual)	Enolase
SCO3122	MudPIT (M145)	Putative nucleotidyltransferase
SCO3123 [†]	MudPIT (<i>ΔtatC</i>)	Ribose-phosphate pyrophosphokinase
SCO3124	MudPIT (mutual)	Ribosomal L25p family protein
SCO3127	MudPIT (mutual)	Phosphoenolpyruvate carboxylase
SCO3182	MudPIT (M145)	UTP-glucose-1-phosphate uridylyltransferase
SCO3187	MudPIT (<i>ΔtatC</i>)	Conserved hypothetical protein SCE22.04
SCO3303	MudPIT (<i>ΔtatC</i>)	Putative lysyl-tRNA synthetase
SCO3304	MudPIT (<i>ΔtatC</i>)	Putative arginyl-tRNA synthetase
SCO3328	MudPIT (M145)	Hypothetical protein
SCO3337	2D	Pyrroline-5-carboxylate reductase
SCO3345	2D	Dihydroxy acid dehydratase
SCO3373	MudPIT (M145)	Putative Clp-family ATP-binding protease
SCO3407	2D	Conserved hypothetical protein
SCO3409	MudPIT (mutual)	Putative inorganic pyrophosphatase
SCO3425	MudPIT (M145)	Putative 30S ribosomal protein S18
SCO3427	MudPIT (M145)	Putative 50S ribosomal protein L31
SCO3429	MudPIT (mutual)	Putative 50S ribosomal protein L28
SCO3438	MudPIT (M145)	Hypothetical protein
SCO3443	2D	Putative pyridine nucleotide-disulphide oxidoreductase
SCO3463	MudPIT (M145)	Putative phosphorylase
SCO3490	2D	Transposase
SCO3549	MudPIT (M145)	Putative anti-sigma factor antagonist
SCO3549	2D and MudPIT (<i>ΔtatC</i>)	putative anti-sigma factor antagonist
SCO3569	MudPIT (mutual)	Putative endonuclease
SCO3571	2D	Putative transcriptional regulator
SCO3575	MudPIT (M145)	Conserved hypothetical protein
SCO3617	MudPIT (M145)	Hypothetical protein
SCO3622	2D	Putative aminotransferase
SCO3629	2D and MudPIT (M145)	Adenylosuccinate synthetase
SCO3647	2D and MudPIT (M145)	Conserved hypothetical protein
SCO3649 [†]	2D and MudPIT (mutual)	Putative fructose 1,6-bisphosphate aldolase
SCO3659	MudPIT (<i>ΔtatC</i>)	Hypothetical protein
SCO3661	MudPIT (M145)	ATP-dependent protease ATP-

		binding subunit
SCO3671	MudPIT (mutual)	Heat shock protein 70
SCO3731	MudPIT (mutual)	Cold-shock protein
SCO3734	MudPIT (M145)	Hypothetical protein
SCO3748	MudPIT (mutual)	Cold shock protein
SCO3767	2D and MudPIT (mutual)	Conserved hypothetical protein
SCO3790 [†]	2D	Conserved hypothetical protein
SCO3792 [†]	MudPIT (mutual)	Putative methionyl tRNA synthetase
SCO3793	MudPIT (M145)	Conserved hypothetical protein
SCO3823	2D	Putative quinone oxidoreductase
SCO3834	MudPIT (mutual)	Putative 3-Hydroxyacyl-CoA dehydrogenase
SCO3877	MudPIT (Δ <i>tatC</i>)	Putative 6-phosphogluconate dehydrogenase
SCO3878	MudPIT (mutual)	DNA polymerase III, beta chain
SCO3889	MudPIT (mutual)	Thioredoxin
SCO3890	MudPIT (M145)	Thioredoxin reductase (NADPH)
SCO3899	2D and MudPIT (M145)	Hypothetical protein
SCO3906	MudPIT (mutual)	Putative 30S ribosomal protein S6
SCO3907	2D and MudPIT (M145)	Putative single-strand DNA-binding protein
SCO3909	MudPIT (mutual)	50S ribosomal protein L9
SCO3913	2D	Conserved hypothetical protein
SCO3917	MudPIT (M145)	Conserved hypothetical protein
SCO3920	MudPIT (Δ <i>tatC</i>)	Putative cystathionine/methionine gamma-synthase/lyase
SCO3956	MudPIT (Δ <i>tatC</i>)	Putative ABC transporter ATP-binding protein
SCO3974	MudPIT (Δ <i>tatC</i>)	Hypothetical protein
SCO4036	MudPIT (mutual)	Hypothetical protein
SCO4039	MudPIT (mutual)	Hypothetical protein 2SCD60.05c
SCO4041	MudPIT (M145)	Putative uracil phosphoribosyltransferase
SCO4043	MudPIT (Δ <i>tatC</i>)	Conserved hypothetical protein
SCO4048	MudPIT (M145)	Conserved hypothetical protein
SCO4068	2D	Phosphoribosylamine-glycine ligase (EC 6.3.4.13)
SCO4086	MudPIT (M145)	Amidophosphoribosyltransferase
SCO4087	2D and MudPIT (mutual)	Phosphoribosylformylglycinamide cyclo-ligase
SCO4089 [†]	MudPIT (Δ <i>tatC</i>)	Valine dehydrogenase (EC 1.4.1.-)
SCO4091	MudPIT (mutual)	Putative DNA-binding protein
SCO4109	2D and MudPIT (mutual)	Putative oxidoreductase
SCO4164	MudPIT (mutual)	Putative thiosulfate sulfurtransferase
SCO4165	MudPIT (mutual)	Conserved hypothetical protein
SCO4173	MudPIT (Δ <i>tatC</i>)	Hypothetical protein SCD66.10c
SCO4175	2D and MudPIT (Δ <i>tatC</i>)	Hypothetical protein SCD66.12c
SCO4199	MudPIT (M145)	Hypothetical protein
SCO4228	2D	Putative phosphate transport system regulator
SCO4240	2D	ABC transporter ATP-binding protein
SCO4246	MudPIT (M145)	Hypothetical protein SCD8A.19c
SCO4277	2D and MudPIT (mutual)	Putative tellurium resistance protein
SCO4294	MudPIT (Δ <i>tatC</i>)	Conserved hypothetical protein
SCO4295	MudPIT (M145)	Cold shock protein
SCO4296	2D and MudPIT (mutual)	Chaperonin 2
SCO4366 [†]	2D and MudPIT (M145)	Putative phosphoserine

		Aminotransferase
SCO4411	MudPIT (mutual)	Putative calcium binding protein
SCO4441	2D	Putative DNA-binding protein
SCO4505	2D and MudPIT (mutual)	Cold shock protein
SCO4509	MudPIT (mutual)	Hypothetical protein SCD35.16
SCO4580	MudPIT (mutual)	Putative fumarylacetoacetase
SCO4614	2D and MudPIT (mutual)	Conserved hypothetical protein
SCO4645	MudPIT (mutual)	Aspartate aminotransferase
SCO4649	MudPIT (mutual)	50S ribosomal protein L1
SCO4652	2D and MudPIT (mutual)	50S ribosomal protein L10
SCO4653	MudPIT (mutual)	50S ribosomal protein L7/L12
SCO4655	MudPIT (<i>ΔtatC</i>)	DNA-directed RNA polymerase beta' chain (fragment)
SCO4659	MudPIT (mutual)	30S ribosomal protein S12
SCO4660	MudPIT (mutual)	30S ribosomal protein S7
SCO4662	2D and MudPIT (mutual)	Elongation factor TU-1
SCO4675	MudPIT (mutual)	Conserved hypothetical protein SCD40A.21c
SCO4687	MudPIT (mutual)	Hypothetical protein SCD31.12c
SCO4701	MudPIT (M145)	30S ribosomal protein S10
SCO4702	MudPIT (mutual)	50S ribosomal protein L3
SCO4703	2D and MudPIT (mutual)	50S ribosomal protein L4
SCO4704	MudPIT (mutual)	50S ribosomal protein L23
SCO4705	MudPIT (mutual)	50S ribosomal protein L2
SCO4706	MudPIT (mutual)	30S ribosomal protein S19
SCO4707	MudPIT (M145)	50S ribosomal protein L22
SCO4709	MudPIT (M145)	50S ribosomal protein L16
SCO4710	MudPIT (M145)	50S ribosomal protein L29
SCO4711	MudPIT (M145)	30S ribosomal protein S17
SCO4713	MudPIT (mutual)	50S ribosomal protein L24
SCO4714	MudPIT (M145)	50S ribosomal protein L5
SCO4716	MudPIT (mutual)	30S ribosomal protein S8
SCO4717	MudPIT (mutual)	50S ribosomal protein L6
SCO4718	MudPIT (mutual)	50S ribosomal protein L18
SCO4719	MudPIT (mutual)	30S ribosomal protein S5
SCO4720	MudPIT (mutual)	50S ribosomal protein L30
SCO4721	MudPIT (mutual)	50S ribosomal protein L15
SCO4723	MudPIT (M145)	Adenylate kinase
SCO4725	MudPIT (mutual)	Translational initiation factor IF1
SCO4726	MudPIT (M145)	50S ribosomal protein L36
SCO4727	MudPIT (mutual)	30S ribosomal protein S13
SCO4729	2D and MudPIT (mutual)	DNA-directed RNA polymerase alpha chain
SCO4730	MudPIT (mutual)	50S ribosomal protein L17
SCO4734	MudPIT (mutual)	50S ribosomal protein L13
SCO4735	MudPIT (mutual)	30S ribosomal protein S9
SCO4761	2D and MudPIT (mutual)	10 kD chaperonin cpn10
SCO4762	MudPIT (mutual)	60 kD chaperonin cpn60
SCO4770	2D and MudPIT (M145)	Inosine 5' monophosphate dehydrogenase
SCO4771 [†]	2D	Putative inosine-5'-monophosphate dehydrogenase
SCO4800	MudPIT (<i>ΔtatC</i>)	Isobutyryl CoA mutase, small subunit
SCO4808	MudPIT (mutual)	Succinyl-CoA synthetase beta chain
SCO4809 [†]	MudPIT (mutual)	Succinyl CoA synthetase alpha chain
SCO4814	MudPIT (M145)	Bifunctional purine biosynthesis

		protein
SCO4824	2D and MudPIT (mutual)	Bifunctional protein (methylenetetrahydrofolate dehydrogenase and methenyltetrahydrofolate cyclohydr
SCO4827 [†]	MudPIT (mutual)	Malate dehydrogenase
SCO4855	MudPIT (M145)	Putative succinate dehydrogenase iron-sulfur subunit
SCO4856	MudPIT (<i>ΔtatC</i>)	Putative succinate dehydrogenase flavoprotein subunit
SCO4860	MudPIT (mutual)	Putative secreted hydrolase
SCO4907	2D	Transcriptional regulatory protein
SCO4921	MudPIT (M145)	Putative acyl-CoA carboxylase complex A subunit
SCO4932	MudPIT (<i>ΔtatC</i>)	Histidine ammonia-lyase
SCO4956	MudPIT (mutual)	Putative peptide methionine sulfoxide reductase
SCO4958 [†]	2D and MudPIT (M145)	Cystathionine gamma-synthase
SCO4990	MudPIT (M145)	Conserved hypothetical protein
SCO5031	MudPIT (mutual)	Alkyl hydroperoxide reductase system hypothetical protein
SCO5042	MudPIT (<i>ΔtatC</i>)	Fumarate hydratase C
SCO5059	2D	Polyphosphate glucokinase
SCO5075	2D	Putative oxidoreductase
SCO5077	MudPIT (mutual)	Hypothetical protein
SCO5079	2D	Conserved hypothetical protein
SCO5101	MudPIT (M145)	Conserved hypothetical protein
SCO5102	MudPIT (mutual)	Putative mutT-like protein
SCO5135	2D and MudPIT (mutual)	Ferredoxin
SCO5145	MudPIT (mutual)	Conserved hypothetical protein
SCO5167	2D	Conserved hypothetical protein
SCO5169	MudPIT (mutual)	Putative ATP-binding protein
SCO5187	2D and MudPIT (mutual)	Putative glutaredoxin-like protein
SCO5199	MudPIT (<i>ΔtatC</i>)	Conserved hypothetical protein
SCO5212 [†]	MudPIT (mutual)	3-phosphoshikimate 1-carboxyvinyltransferase
SCO5217	MudPIT (<i>ΔtatC</i>)	Anti-sigma factor
SCO5221	2D	Putative polypeptide deformylase
SCO5236	MudPIT (M145)	Putative glucosamine phosphate isomerase
SCO5249	2D	Putative nucleotide-binding protein
SCO5251	2D	Acetyltransferase
SCO5254	2D	Superoxide dismutase
SCO5261	MudPIT (M145)	Putative malate oxidoreductase
SCO5262 [†]	MudPIT (<i>ΔtatC</i>)	Putative dehydrogenase
SCO5281	MudPIT (<i>ΔtatC</i>)	Putative 2-oxoglutarate dehydrogenase
SCO5359	MudPIT (mutual)	50S ribosomal protein L31
SCO5362	MudPIT (<i>ΔtatC</i>)	Conserved hypothetical protein
SCO5370	2D	ATP synthase delta chain
SCO5371	2D	ATP synthase alpha chain
SCO5373	MudPIT (<i>ΔtatC</i>)	ATP synthase beta chain
SCO5374	MudPIT (<i>ΔtatC</i>)	ATP synthase epsilon chain
SCO5396	2D	Putative cellulose-binding protein
SCO5398	MudPIT (M145)	Conserved hypothetical protein
SCO5405	2D	Putative transcriptional regulator
SCO5444	MudPIT (<i>ΔtatC</i>)	Putative glycogen phosphorylase
SCO5464	MudPIT (mutual)	Possible calcium binding protein

SCO5465	MudPIT (mutual)	Conserved hypothetical protein
SCO5470	MudPIT (mutual)	Serine hydroxymethyltransferase
SCO5490	MudPIT (Δ <i>tatC</i>)	Conserved hypothetical protein
SCO5514	MudPIT (mutual)	Acetolactate synthase small subunit
SCO5515	MudPIT (mutual)	Probable D-3-phosphoglycerate dehydrogenase
SCO5522	2D and MudPIT (M145)	3-isopropylmalate dehydrogenase
SCO5545	MudPIT (mutual)	Hypothetical protein SC1C2.26
SCO5547	2D	Glutamyl-tRNA synthetase
SCO5553	MudPIT (Δ <i>tatC</i>)	3-isopropylmalate dehydratase large subunit
SCO5561	MudPIT (mutual)	Hypothetical protein SC7A1.05c
SCO5564	MudPIT (M145)	Putative 50S ribosomal protein L28
SCO5570	2D and MudPIT (M145)	Hypothetical protein
SCO5571	MudPIT (Δ <i>tatC</i>)	50S ribosomal protein L32
SCO5584	2D and MudPIT (M145)	Nitrogen regulatory protein P-II
SCO5591	MudPIT (mutual)	30S ribosomal protein S16
SCO5607	MudPIT (Δ <i>tatC</i>)	Putative transcriptional regulator
SCO5624	MudPIT (M145)	30S ribosomal protein S2
SCO5651	MudPIT (M145)	Hypothetical protein SC6A9.16
SCO5655	2D	Putative aminotransferase
SCO5699	2D	Prolyl tRNA synthetase
SCO5703	2D	Hypothetical protein SC5H4.27
SCO5723	MudPIT (Δ <i>tatC</i>)	Putative regulator, BldB
SCO5736	MudPIT (mutual)	30S ribosomal protein S15
SCO5737 [†]	2D and MudPIT (mutual)	Guanosine pentaphosphate synthetase/polyribonucleotide nucleotidyltransferase
SCO5744	2D	Putative dihydrodipicolinate synthase
SCO5745	2D	Conserved hypothetical protein SC9A10.09
SCO5759	MudPIT (Δ <i>tatC</i>)	Hypothetical protein SC7C7.14
SCO5777	MudPIT (M145)	Glutamate uptake system ATP-binding protein
SCO5806	MudPIT (Δ <i>tatC</i>)	Conserved hypothetical protein SC4H2.27c
SCO5838	MudPIT (Δ <i>tatC</i>)	Putative protease
SCO5841	MudPIT (mutual)	Phosphocarrier protein hpr
SCO5843	2D	Hypothetical protein SC9B10.10
SCO5853	2D	Conserved hypothetical protein SC9B10.20c
SCO5862	2D	Two-component regulator CutR
SCO5971	MudPIT (Δ <i>tatC</i>)	Conserved hypothetical protein
SCO5976	MudPIT (M145)	Ornithine carbamoyltransferase
SCO5984	2D	Putative acyl-CoA dehydrogenase
SCO5999 [†]	2D and MudPIT (mutual)	Aconitase
SCO6031	MudPIT (mutual)	Uroporphyrinogen decarboxylase
SCO6042	MudPIT (Δ <i>tatC</i>)	Conserved hypothetical protein SC1B5.02
SCO6046	MudPIT (M145)	Hypothetical protein
SCO6061	MudPIT (M145)	Putative oxidoreductase
SCO6084	2D	Putative DNA polymerase
SCO6145	2D	Hypothetical protein SC1A9.09
SCO6176	2D and MudPIT (mutual)	Conserved hypothetical protein
SCO6206	2D	Putative oxidoreductase
SCO6283	MudPIT (M145)	Conserved hypothetical protein
SCO6324	2D	Putative hydrolase

SCO6409	MudPIT (mutual)	Methionine aminopeptidase
SCO6412	2D	Putative aminotransferase
SCO6415	2D	Putative D-hydantoinase
SCO6482	2D and MudPIT (mutual)	Conserved hypothetical protein
SCO6488	MudPIT (M145)	Putative acyl-peptide hydrolase
SCO6531	2D and MudPIT (mutual)	Putative ATP/GTP binding protein
SCO6549	MudPIT (mutual)	Hypothetical protein SC5C7.34
SCO6551	MudPIT (mutual)	Putative oxidoreductase
SCO6606	MudPIT (M145)	Conserved hypothetical protein SC1F2.03c
SCO6650	2D	Hypothetical protein SC4G2.24
SCO6658	MudPIT (M145)	6-phosphogluconate dehydrogenase
SCO6663	MudPIT (M145)	Transketolase B
SCO6753	2D	Putative nucleotide sugar-1-phosphate transferase
SCO6776	2D	Conserved hypothetical protein
SCO6928	2D and MudPIT ($\Delta tatC$)	Putative O-methyltransferase.
SCO7000 [†]	MudPIT (mutual)	Isocitrate dehydrogenase
SCO7072	MudPIT (M145)	Conserved hypothetical protein
SCO7271	MudPIT ($\Delta tatC$)	Putative ion channel subunit
SCO7286	MudPIT ($\Delta tatC$)	Putative oxidoreductase
SCO7293	2D	Conserved hypothetical protein
SCO7481	2D and MudPIT (mutual)	Conserved hypothetical protein
SCO7510 [†]	2D and MudPIT (mutual)	Peptidyl-prolyl cis-trans isomerase
SCO7511	2D	Glyceraldehyde 3-phosphate dehydrogenase
SCO7647	MudPIT ($\Delta tatC$)	Putative calcium binding protein
SCO7654	MudPIT (M145)	Putative oxidoreductase
SCO7676	MudPIT (mutual)	Putative ferredoxin
SCO7683	MudPIT (M145)	Putative non-ribosomal peptide synthase
SCO7699	2D	Putative nucleotide-binding protein
SCO7700	2D	Putative cyclase
SCO7728	2D and MudPIT ($\Delta tatC$)	Conserved hypothetical protein
SCO7730	MudPIT (mutual)	Conserved hypothetical protein

Proteins are listed by SCO number. Method of observation indicates which technique was used to identify a particular protein. 2D is two-dimensional gel electrophoresis; MudPIT is multidimensional protein identification technology. Bracketed after MudPIT is indicated ' $\Delta tatC$ ' if the protein was found in the cell-wall fraction of the *tatC* mutant strain only, 'M145' if the protein was found in the cell-wall fraction of the M145 strain only and 'mutual' if it was found in the cell-wall fractions of both the M145 and the *tatC* mutant strains.

[†]These proteins have also been identified in the extracellular fraction of *S. coelicolor* grown in liquid medium (Kim DW, Chater K, Lee KJ, Hesketh, A (2005) *J Bacteriol* 187: 2957-2966).