Table 1. Supporting Information. Global Analysis by Functional Category of Proteins of *L. interrogans* Serovar Pomona Identified by Mass Spectrometry

Gene Locus[a]	Acession Number[b]	Mass / pI	Matches / Sequence Coverage	MASCOT Score[c]	Protein Annotation[d]	P-Classif.[e]	LipoP[f]	K[g]	L[g]
Biosynthesis of Small Molecules									
LIC10074	AAS68711	30,867 / 5.36	8 / 25%	60	LeuD / 3-isopropylmalate dehydratase small subunit	C	CYT	0/3	1/3
LIC10403	AAS69026	16,000 / 6.14	9 / 54%	117	RisB / riboflavin synthase beta chain	C	CYT	3/3	3/3
LIC11821	AAS70409	23,753 / 5.63	3 / 11%	42	LeuD / 3-isopropylmalate dehydratase small subunit	C	CYT	0/3	1/3
LIC12082	AAS70653	33,228 / 7.82	12 / 34%	112	CysK / cysteine synthase	C	CYT	5/3	3/3
LIC20125	AAS72153	26,360 / 8.29	6 / 30%	63	CobO / corrinoid ATP adenosyltransferase	C	CYT	1/3	0/3
LIC20227	AAS72253	20,820 / 5.52	8 / 35%	70	ARD / acireductone dioxygenase enzyme	C	CYT	1/3	0/3
Cellular Processes									
LIC10788	AAS69404	35,041 / 7.63	8 / 34%	88	FlaA-1 / flagellar filament sheath protein	P	SpI	2/3	1/3
LIC11220	AAS69826	52,945 / 5.86	7 / 18%	48	ABC transporter permease protein	OM	CYT	1/3	0/3
LIC11377	AAS69978	48,632 / 6.61	5 / 11%	48	FlhF / flagellar GTP-binding protein	C	CYT	1/3	0/3
LIC11531	AAS70127	31,451 / 7.04	11 / 46%	111	flagellin protein	IM	CYT	3/3	5/3
LIC11532	AAS70128	31,531 / 6.86	7 / 30%	64	flagellin protein	E	CYT	2/3	1/3
LIC11657	AAS70250	16,813 / 6.62	4 / 29%	54	FliS / flagellar protein	C	CYT	1/3	0/3
LIC11890	AAS70476	31,286 / 6.54	11 / 33%	104	flagellin protein	IM	CYT	7/3	3/3
LIC12515	AAS71080	38,157 / 9.09	4 / 14%	44	cystine-binding periplasmic protein precursor	OM	CYT	1/3	0/3
LIC13316	AAS71858	34,872 / 6.93	6 / 21%	85	ABC transporter, ATP-binding protein	C	SpI	1/3	2/3
LIC13451	AAS71991	70,610 / 5.28	8 / 16%	49	FlgK / flagellar hook-associated protein	E	CYT	1/3	0/3
Central Intermediary Metabolism									
LIC10629	AAS69250	57,458 / 9.31	13 / 35%	47	GlpK2 / glycerol kinase	IM	CYT	1/3	0/3
LIC10838	AAS69452	16,268 / 4.67	5 / 29%	50	GloA / glyoxalase	P	CYT	1/3	1/3
LIC11652	AAS70245	23,649 / 5.09	12 / 56%	103	Tal / transaldolase	C	CYT	2/3	2/3
Degradation									
LIC12795	AAS71349	47,478 / 6.0	9 / 21%	99	acetyl-CoA acetyltransferase	C	CYT	3/3	0/3
DNA/RNA Metabolism									
LIC10002	AAS68639	41,531 / 5.03	12 / 31%	127	DNA polymerase III beta subunit	E	CYT	1/3	1/3
LIC10752	AAS69369	12,800 / 5.28	6 / 37%	82	RplL / 50s ribosomal protein L7/L12	C	CYT	3/3	3/3
LIC11934	AAS70516	49,457 / 8.78	9 / 28%	52	polynucleotide adenyltransferase-like protein	C	CYT	2/3	0/3
LIC12246	AAS70818	34,225 / 7.74	5 / 16%	55	MiaR / tRNA delta(2)-isopentenylpyrophosphate transferase	C	CYT	1/3	1/3
LIC12706	AAS71264	50,976 / 5.03	8 / 16%	74	NusA / transcription elongation factor	C	CYT	2/3	0/3
Energy Metabolism, Carbon									
LIC10361	AAS68987	27,051 / 5.58	6 / 33%	81	EtfB2 / electron transport flavoprotein beta subunit	C	CYT	3/3	3/3
LIC11194	AAS69801	37,212 / 6.07	11 / 16%	117	putative citrate lyase	C	CYT	3/3	4/3
LIC11241	AAS69847	55,539 / 5.56	22 / 47%	191	AtpA / ATP synthase subunit α	C	CYT	3/3	2/3
LIC11243	AAS69849	50,592 / 5.56	20 / 49%	217	AtpD / ATP synthase subunit β	C	CYT	6/3	4/3
LIC12002	AAS70578	70,969 / 8.64	8 / 13%	85	SdhB / succinato dehydrogenase flavoprotein subunit	P	SpI	5/3	0/3
LIC12003	AAS70579	27,259 / 6.22	5 / 19%	63	SdhA / succinato dehydrogenase iron-sulfur subunit	C	CYT	1/3	0/3
LIC12233	AAS70805	38,128 / 6.71	10 / 35%	117	fructose-bisphosphate aldolase	C	CYT	0/3	2/3
LIC12573	AAS71134	42,038 / 5.66	9 / 26%	100	SucC / succinyl-CoA synthetase beta subunit	C	CYT	1/3	1/3

Table 1 Contd….

Gene Locus[a]	Acession Number[b]	Mass / pI	Matches / Sequence Coverage	MASCOT Score[c]	Protein Annotation[d]	P-Classif.[e]	LipoP[f]	K[g]	L[g]
Hypothetical									
LIC10158	AAS68787	26,543 / 9.12	6 / 29%	47	hypothetical	C	CYT	0/3	1/3
LIC10176	AAS68805	15,799 / 5.46	4 / 36%	53	hypothetical	C	CYT	1/3	0/3
LIC10314	AAS68941	63,755 / 8.42	4 / 11%	47	hypothetical	OM	SpI	1/3	0/3
LIC10411 *	AAS69034	17,233 / 6.62	9 / 50%	126	hypothetical	C	SpI	3/3	1/3
LIC10419	AAS69042	37,699 / 5.57	20 / 64%	53	hypothetical	C	CYT	1/3	0/3
LIC10483 **	AAS69104	36,125 / 5.49	11 / 31%	133	hypothetical	P	CYT	0/3	1/3
LIC10601	AAS69222	17,207 / 6.15	9 / 51%	108	hypothetical	C	CYT	0/3	4/3
LIC10619	AAS69240	20,153 / 5.54	3 / 27%	52	hypothetical	C	CYT	1/3	0/3
LIC10664	AAS69285	18,623 / 5.42	5 / 19%	62	hypothetical	C	CYT	0/3	1/3
LIC10672 *	AAS69293	26,962 / 8.74	8 / 27%	65	hypothetical	C	SpI	1/3	0/3
LIC10767	AAS69384	28,931 / 8.80	3 / 13%	49	hypothetical	OM	CYT	1/3	0/3
LIC10771	AAS69388	25,814 / 6.54	5 / 34%	56	hypothetical	C	CYT	0/3	1/3
LIC11196	AAS69803	17,422 / 6.16	9 / 58%	109	hypothetical	C	CYT	2/3	2/3
LIC11205	AAS69812	32,228 / 9.27	6 / 31%	68	hypothetical	C	CYT	1/3	0/3
LIC11228	AAS69834	55,088 / 8.24	7 / 23%	77	hypothetical	OM	SpI	0/3	1/3
LIC11550	AAS70146	32,656 / 9.08	6 / 29%	51	hypothetical	C	CYT	1/3	0/3
LIC11569	AAS70165	32,929 / 9.03	5 / 16%	53	hypothetical	OM	TMH	1/3	0/3
LIC11695	AAS70284	21,343 / 5.97	9 / 73%	50	hypothetical	C	SpII	1/3	0/3
LIC11782	AAS70371	39,961 / 7.57	11 / 33%	101	hypothetical	C	CYT	5/3	3/3
LIC11848 *	AAS70434	32,115 / 8.3	12 / 46%	166	hypothetical	P	SpI	9/3	10/3
LIC12015	NA	50,423 / 8.86	7 / 12%	49	hypothetical	OM	SpII	1/3	1/3
LIC12040	AAS70612	16,474 / 5.25	7 / 34%	71	hypothetical	C	CYT	0/3	2/3
LIC12068	AAS70639	8,313 / 9.82	2 / 32%	49	hypothetical	C	CYT	0/3	1/3
LIC12326	AAS70897	14,273 / 4.42	6 / 31%	50	hypothetical	C	CYT	0/3	1/3
LIC12459	AAS71024	12,802 / 4.75	9 / 52%	56	hypothetical	C	CYT	1/3	0/3
LIC12621	AAS71181	14,514 / 5.94	9 / 61%	130	hypothetical	C	CYT	5/3	9/3
LIC12633	AAS71193	39,501 / 5.19	9 / 27%	50	hypothetical	C	CYT	1/3	0/3
LIC12634	AAS71194	134,248 / 5.03	9 / 9%	67	hypothetical	C	CYT	1/3	0/3
Hypothetical									
LIC12898	AAS71451	112,050 / 8.57	6 / 6%	49	hypothetical	OM	TMH	1/3	0/3
LIC12980	AAS71530	17,659 / 5.08	6 / 26%	60	hypothetical	C	CYT	0/3	1/3
LIC13050 *	AAS71599	39,209 / 5.27	11 / 34%	124	hypothetical	OM	SpI	4/3	4/3
LIC13123 * / **	AAS71669	33,176 / 6.29	14 / 45%	179	hypothetical	C	CYT	0/3	2/3
LIC13166 * / **	AAS71711	36,304 / 8.5	11 / 37%	117	hypothetical	C	SpI	6/3	4/3
LIC20185	AAS72213	26,204 / 8.28	5 / 28%	66	hypothetical	E	SpII	0/3	1/3

Table 1 Contd….

Gene Locus[a]	Acession Number[b]	Mass / pI	Matches / Sequence Coverage	MASCOT Score[c]	Protein Annotation[d]	P-Classif.[e]	LipoP[f]	K[g]	L[g]
Membrane Components									
LIC10011	AAS68648	19,934 / 7.53	4 / 30%	51	LipL21	P	SpII	1/3	1/3
LIC10191	AAS68819	20,957 / 8.56	10 / 56%	151	OmpA-like / Loa22	P	SpII	10/3	4/3
LIC10973	AAS69584	33,550 / 8.69	6 / 24%	84	OmpL1	OM	SpI	1/3	1/3
LIC11003	AAS69613	62,104 / 5.59	11 / 17%	112	LipL71	OM	SpII	1/3	0/3
LIC11352	AAS69953	29,651 / 6.34	7 / 28%	76	LipL32	P	SpII	2/3	3/3
LIC11456	AAS70054	27,774 / 6.78	7 / 17%	58	LipL31	C	SpII	0/3	1/3
LIC11460	AAS70058	11,083 / 4.88	4 / 26%	50	glutamyl-tRNA(Gln)amidotransferase subunit C	C	CYT	1/3	0/3
LIC11643	AAS70238	42,321 / 6.89	11 / 37%	126	LipL45	OM	SpII	4/3	3/3
LIC11885	AAS70471	44,713 / 6.60	5 / 18%	48	LipL46 / putative lipoprotein	OM	SpII	1/3	1/3
LIC12114	AAS70685	46,041 / 8.93	6 / 22%	49	putative lipoprotein	C	SpI	1/3	0/3
LIC12513	AAS71078	23,068 / 9.63	4 / 21%	44	cytoplasmic membrane protein	IM	TMH	1/3	0/3
LIC12667	AAS71226	34,594 / 9.05	6 / 22%	51	putative lipoprotein	C	SpII	1/3	0/3
LIC12966	AAS71516	39,088 / 7.52	8 / 29%	82	LipL41	C	SpII	0/3	5/6
LIC20114	AAS72143	40,996 / 5.46	7 / 15%	56	LipL45 homologue	C	CYT	0/3	1/3
Other Cell Structure Components									
LIC11258	AAS69864	36,927 / 5.34	12 / 39%	156	MreB / rod shape-determining protein	C	CYT	0/3	2/3
LIC12407	AAS70976	53,415 / 5.9	6 / 9%	57	GlnA / putative glutamine synthetase protein	C	CYT	1/3	0/3
LIC12946	AAS71497	29,716 / 9.33	4 / 18%	61	glycosyl transferase	C	CYT	1/3	0/3
Pathogenicity, Virulence and Adaptation									
LIC10591	AAS69212	12,251 / 5.43	6 / 82%	50	periplasmic divalent cation tolerance protein	C	CYT	1/3	0/3
LIC11219	AAS69825	21,617 / 5.8	8 / 43%	115	AhpC / peroxiredoxin	C	CYT	6/3	9/3
LIC11310	AAS69913	21,076 / 5.08	7 / 47%	99	Bfr / bacterioferritin	C	CYT	1/3	0/3
LIC12765	AAS71322	18,163 / 6.58	4 / 29%	52	Tpx / thiol peroxidase	C	CYT	1/3	1/3
Protein Metabolism									
LIC10272	AAS68899	79,407 / 5.55	10 / 24%	95	FusA / elongation factor EF-2	C	CYT	1/3	1/3
LIC10524	AAS69145	69,171 / 5.11	20 / 34%	200	DnaK / Heat shock protein 70	C	CYT	4/3	1/3
Protein Metabolism									
LIC10733	AAS69352	54,129 / 8.91	7 / 16%	53	PepA / cytosol aminopeptidase protein	C	CYT	1/3	1/3
LIC10851	AAS69465	22,343 / 5.72	6 / 32%	78	Tsf / elongation factor Ts	C	CYT	1/3	0/3
LIC11335	AAS69936	57,962 / 5.29	20 / 36%	175	GroEL / chaperonin	C	CYT	6/3	8/3
LIC11336	AAS69937	10,556 / 5.27	6 / 52%	102	GroES / Hsp10 (heat shock protein)	C	CYT	1/3	3/3
LIC11416	AAS70015	52,171 / 5.54	7 / 16%	95	Tig / FKBP-type peptidyl-prolyl cis-trans isomerase (trigger factor)	C	CYT	0/3	1/3
LIC11417	AAS70016	22,156 / 5.68	9 / 37%	108	ClpP / ATP-dependent Clp protease, proteolytic subunit	C	CYT	0/3	2/3
LIC11511	AAS70108	20,480 / 5.16	9 / 52%	74	Def / putative polypeptide deformylase protein	C	CYT	1/3	1/3
LIC11731	AAS70320	17,842 / 4.75	4 / 36%	63	SlyD / FKBP-type peptidyl-prolyl cis-trans isome-rase	C	CYT	0/3	1/3
LIC11951	AAS70533	21,735 / 5.76	6 / 31%	97	ATP-dependent CLP protease-like, proteolytic subunit	C	CYT	1/3	1/3
LIC12211	AAS70783	14,991 / 5.63	6 / 48%	88	Hsp15 / small heat shock protein	C	CYT	1/3	1/3
LIC12875	AAS71428	43,661 / 5.74	16 / 48%	184	Tuf / elongation factor Tu	C	CYT	13/3	7/3

Table 1 Contd….

Gene Locus[a]	Acession Number[b]	Mass / pI	Matches / Sequence Coverage	MASCOT Score[c]	Protein Annotation[d]	P-Classif.[e]	LipoP[f]	K[g]	L[g]
Regulatory Functions									
LIC11128	AAS69735	35,115 / 5.33	4 / 17%	48	GGDEF family protein	C	CYT	1/3	0/3
LIC11231	NA	21,535 / 9.45	14 / 21%	53	transcriptional regulator (TetR family)	C	CYT	1/3	0/3
LIC12454	AAS71020	13,317 / 5.43	7 / 47%	80	response regulator	C	CYT	3/3	1/3
LIC20254	AAS72275	27,942 / 5.59	11 / 55%	160	response regulator	C	CYT	0/3	1/3
Undefined Category									
LIC10600	AAS69221	15,314 / 6.82	7 / 60%	96	fatty acid synthase subunit beta	C	CYT	0/3	1/3
LIC11261	AAS69867	71,238 / 9.35	6 / 11%	50	penicillin-binding protein	OM	CYT	1/3	0/3
LIC11985	AAS70561	10,145 / 9.0	7 / 51%	91	RNA-binding protein	C	CYT	1/3	0/3

a) * and ** show hypothetical proteins previously validated in the studies of Nally *et al*. (15) and Sakolvaree *et al*. (17);
b) NA- Acession number not assigned;
c) Probability-based *MOUSE* scores of the MASCOT server that takes into account a value of $p<0.05$ for the random matches;
d) Protein annotation according to Nascimento *et al*., 2004, (HUhttp://aeg.lbi.ic.unicamp.br/world/lic/UH);
e) Bacterial cell compartment according to P-Classifier (22): (C) cytoplasm; (P) periplasm; (IM) inner membrane; (OM) outer membrane; (E) extracellular;
f) Predicted signal peptide cleavage site (SpI), lipoprotein signal peptide cleavage site (SpII), transmembrane helix (TMH) and cytoplasmic (CYT) according to LipoP (23);
g) Number of times (including isoforms) that the protein was identified per experiment of *Leptospira* cultured from kidney (K) and liver (L) of infected hamsters.

Table 2. Supporting Information. List of Matching Peptides of the Identified Proteins Searched by the Program MASCOT, Mode PMF

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC10002						
13 - 24	1266.8430	1265.8357	1265.7091	0.1266	0	K.AIHAVEGVITTR.E
55 - 72	1812.9960	1811.9887	1811.9265	0.0623	0	K.TSVPADVTQEGNVSLPAK.Q
148 - 159	1418.7910	1417.7837	1417.6950	0.0888	1	R.KTSYAIAHEDQR.F
149 - 159	1290.7380	1289.7307	1289.6000	0.1307	0	K.TSYAIAHEDQR.F
174 - 182	977.6980	976.6907	976.5341	0.1566	0	K.LIFVGTDGR.R
190 - 198	1030.7230	1029.7157	1029.5859	0.1299	0	R.TLPSPLQFK.D
243 - 257	1760.9860	1759.9787	1759.9144	0.0643	0	K.LIEGNFPNYEQVIPK.N
268 - 275	1007.6720	1006.6647	1006.5083	0.1564	0	K.EEFQVSLR.Q
276 - 286	1200.7630	1199.7557	1199.6146	0.1411	0	R.QVLTAAEEPSR.Q
328 - 336	1143.6970	1142.6897	1142.5430	0.1467	0	K.GEYLMDIFR.S
328 - 336	1159.6840	1158.6767	1158.5379	0.1388	0	K.GEYLMDIFR.S Oxidation (M)
345 - 357	1466.8350	1465.8277	1465.7452	0.0825	0	K.IEFSDANSPVIFK.D
LIC10011						
104 – 134	3024.2910	3023.2837	3023.4605	-0.1768	0	K.MVGETVESASGVSDGEATASVIVSQSQGV VK.G Oxidation (M)
135 - 142	911.3990	910.3917	910.4219	-0.0301	0	K.GVGVYECK.A
152 - 168	2143.8950	2142.8877	2142.9350	-0.0473	1	K.DVSKDNWEECQCVIYAK.F
156 - 168	1714.6670	1713.6597	1713.7127	-0.0530	0	K.DNWEECQCVIYAK.F

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC10074						
28 - 35	956.5640	955.5567	955.5338	0.0229	0	R.LTPEQIQK.I
40 - 52	1395.0870	1394.0797	1393.9353	0.1444	0	R.NFGIGSDGVIFIR.N
84 - 94	1283.9070	1282.8997	1282.7193	0.1804	0	K.YIYDHGLTSSK.N
98 - 110	1358.0670	1357.0597	1356.8500	0.2097	0	K.IETGAGILEVDLK.I
182 - 189	854.5330	853.5257	853.5021	0.0236	0	R.GIGPLIER.H
196 - 205	1232.9660	1231.9587	1231.8036	0.1551	1	K.RVNVEFVTIR.G
197 - 205	1076.7730	1075.7657	1075.6025	0.1632	0	R.VNVEFVTIR.G
206 - 213	1016.6660	1015.6587	1015.5199	0.1388	1	R.GKDHLYQR.T
LIC10158						
1 - 11	1360.7130	1359.7057	1359.6016	0.1041	0	-.MENYIFEAEAK.S Oxidation (M)
23 - 32	1202.6600	1201.6527	1201.6415	0.0113	1	K.TLRLNSDEVR.F
136 - 145	1235.8260	1234.8187	1234.6921	0.1266	1	R.KIVLDIESYR.D
149 - 157	1014.4820	1013.4747	1013.6233	-0.1486	1	R.ELSLVRLGK.S
169 - 180	1476.8000	1475.7927	1475.7442	0.0485	1	K.SKLLEPMNPFER.R Oxidation (M)
219 - 236	2059.9070	2058.8997	2058.9745	-0.0748	1	K.DVVEKGPNNDLLEEVNFE.-
LIC10176						
8 - 18	1357.6160	1356.6087	1356.6561	-0.0474	0	K.ENYSFTNLELK.L
32 - 44	1521.7520	1520.7447	1520.7511	-0.0063	0	K.FDHAVEIELTYGK.S
59 - 71	1571.7640	1570.7567	1570.7515	0.0053	0	R.SISAEIYFEELDR.L
97 - 111	1633.8540	1632.8467	1632.8623	-0.0156	1	K.AEGRPDFKYLAPAAK.I
LIC10191						
27 - 46	2100.9820	2099.9747	2099.9719	0.0028	1	K.KEESAAPEPSTQEQSAAANR.N
28 - 46	1972.8730	1971.8657	1971.8769	-0.0112	0	K.EESAAPEPSTQEQSAAANR.N
47 - 63	1814.8410	1813.8337	1813.8693	-0.0356	0	R.NVDVNSPEAIADSLNEK.L
69 - 81	1500.7010	1499.6937	1499.7408	-0.0471	0	R.YPDGLTRPGFSYK.K
82 - 95	1566.6570	1565.6497	1565.7361	-0.0864	1	K.KADVTPGDFSEWSK.T
83 - 95	1438.5210	1437.5137	1437.6412	-0.1275	0	K.ADVTPGDFSEWSK.T
108 - 132	2583.2690	2582.2617	2582.2500	0.0118	0	K.LPDSYALEITGHTDAIGPEQAEGAK.K
133 - 142	1226.5850	1225.5777	1225.6455	-0.0677	1	K.KGNIFYSELR.A
134 - 142	1098.4760	1097.4687	1097.5505	-0.0818	0	K.GNIFYSELR.A
153 - 159	755.2800	754.2727	754.4086	-0.1358	0	K.QGIPANR.I
LIC10272						
167 - 183	1857.2050	1856.1977	1856.0155	0.1822	0	K.HNAVPVQIPIGLENDLK.G
193 - 199	877.4390	876.4317	876.4017	0.0300	0	K.AYYFEGK.D
262 - 272	1215.7330	1214.7257	1214.5827	0.1430	0	K.MTPVFMGSAFK.N
329 - 336	999.6180	998.6107	998.5185	0.0922	0	R.YGQLTYVR.V
439 - 457	2173.2310	2172.2237	2172.0335	0.1903	0	K.EDPTFQTHVDQESGQTIIK.G

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC10272						
474 - 489	1766.1110	1765.1037	1764.9046	0.1992	0	R.EYGVELITGAPQVAYR.E
505 - 514	1035.6430	1034.6357	1034.4893	0.1464	0	K.QTGGQGQFGR.V
560 - 571	1228.9020	1227.8947	1227.7339	0.1609	0	R.GSLIGFPIIGVR.C
615 - 634	2116.2460	2115.2387	2115.0596	0.1792	0	K.VEVDGPSEFQGAILGSLNQR.R
674 - 682	1103.6400	1102.6327	1102.4753	0.1574	0	K.AEFSMEFSR.Y
LIC10314						
402 - 421	2341.1830	2340.1757	2340.1709	0.0048	1	K.GHYNNELQVLDPTKDDTIIR.G
439 - 453	1610.7960	1609.7887	1609.7848	0.0039	0	K.ALVIGFEDGHSSNHK.L
482 - 494	1557.7060	1556.6987	1556.6882	0.0106	0	K.GDEIYAFEEVEEK.Y
510 - 526	1887.9000	1886.8927	1886.8533	0.0394	0	K.SSEEISPNSNVTFYGEK.I
LIC10361						
31 - 46	1937.8640	1936.8567	1936.9570	-0.1003	0	K.WIISPYDEFAIEEGIR.L
49 - 64	1663.7970	1662.7897	1662.8689	-0.0791	1	R.EKHGGEVIAVSLGPDR.V
51 - 64	1406.6600	1405.6527	1405.7313	-0.0786	0	K.HGGEVIAVSLGPDR.V
85 - 105	2372.0120	2371.0047	2371.1331	-0.1284	0	K.VDNYVPFDTNNTAELISNFAK.A
106 - 116	1114.5050	1113.4977	1113.5778	-0.0800	0	K.AENADVIIGGR.Q
157 - 177	2145.9420	2144.9347	2145.0800	-0.1453	0	K.EVEGGTQTVETSTPVALTAQK.G
LIC10403						
1 - 12	1375.4280	1374.4207	1374.6177	-0.1969	1	-.MIQELKADLNGK.G Oxidation (M)
16 - 22	870.5150	869.5077	869.4541	0.0536	0	K.HCVIVSR.F
23 - 33	1340.4540	1339.4467	1339.6023	-0.1556	0	R.FNEFITESLLK.G
41 - 51	1241.4770	1240.4697	1240.6234	-0.1536	0	R.MHGVEDVTVVR.V
41 - 51	1257.4390	1256.4317	1256.6183	-0.1865	0	R.MHGVEDVTVVR.V Oxidation (M)
52 - 64	1391.4420	1390.4347	1390.6166	-0.1818	0	R.VPGAYEMPVVVSK.A Oxidation (M)
70 - 82	1493.5020	1492.4947	1492.6071	-0.1124	1	K.KYDSIVCLGAVIR.G
71 - 82	1365.4620	1364.4547	1364.6122	-0.1574	0	K.YDSIVCLGAVIR.G
83 - 97	1473.4070	1472.3997	1472.5259	-0.1262	0	R.GATAHFDLVAGESAK.I
LIC10411						
32 - 50	1914.8600	1913.8527	1913.9218	-0.0691	1	K.SLSSGSDSEKYESAVALGK.N
42 - 52	1179.5940	1178.5867	1178.6295	-0.0428	1	K.YESAVALGKNK.E
55 - 66	1366.8200	1365.8127	1365.7980	0.0148	0	K.SAIPELIQLLNR.N
72 - 82	1015.6320	1014.6247	1014.6073	0.0174	0	K.IATAAAISLGK.I
83 - 94	1214.6370	1213.6297	1213.6554	-0.0257	0	K.IAEPGDSTIALK.N
129 - 136	972.4190	971.4117	971.4236	-0.0119	0	K.EAFEYADK.N
129 - 138	1242.6660	1241.6587	1241.5676	0.0911	1	K.EAFEYADKNR.R
139 - 152	1633.8600	1632.8527	1632.8723	-0.0195	1	R.RSDEFVADLLDLIK.K
140 - 152	1477.7590	1476.7517	1476.7712	-0.0194	0	R.SDEFVADLLDLIK.K

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC10419						
1 - 16	1922.0700	1921.0627	1921.0906	-0.0279	1	-.MLFNLLTRHSPMSFTK.I
1 - 16	1940.0400	1939.0327	1938.9856	0.0472	1	-.MLFNLLTRHSPMSFTK.I Oxidation (M)
1 - 16	1954.0000	1952.9927	1953.1805	-0.1877	1	-.MLFNLLTRHSPMSFTK.I 2 Oxidation (M)
2 - 16	1807.3100	1806.3027	1806.4451	-0.1423	1	M.LFNLLTRHSPMSFTK.I Oxidation (M)
19 - 35	2011.9300	2010.9227	2010.9235	-0.0008	0	R.SLLPDHYQNLENPDSDR.K
38 - 53	1846.2200	1845.2127	1844.9996	0.1131	1	K.LSRDIEELGELGFLVR.S
54 - 68	1752.3400	1751.3327	1750.5598	0.1729	1	R.STQEGYILDRNVSNR.E
87 - 102	1873.2100	1872.2027	1872.0152	0.1875	0	R.SYQETPSLELYSLSQK.L
103 - 119	2022.8500	2021.8427	2022.0661	-0.2034	1	K.LFEGKLDIYPELETDLK.T
108 - 119	1447.9500	1446.9427	1446.7446	-0.1019	0	K.LDIYPELETDLK.T
123 - 138	1746.3300	1745.3227	1745.1206	0.2021	1	K.NLSQVEASASEELLKK.L
147 - 155	1159.4300	1158.4227	1158.3121	0.1106	0	K.SPIQFLYYK.T
156 - 163	1013.5400	1012.5327	1012.5706	-0.0378	0	K.TFPEETYK.V
175 - 187	1650.5500	1649.5427	1648.1733	0.1695	1	K.NSEDYYLLAYDRK.K
202 - 217	1814.2000	1813.1927	1813.3210	-0.1283	0	K.VETIAENPLYQPQGQK.R
251 - 265	1826.2200	1825.2127	1824.7006	0.1121	1	K.VRNSISEIPYEEFSR.D
253 - 265	1569.7500	1568.7427	1568.9311	-0.1883	0	R.NSISEIPYEEFSR.D
270 - 286	1975.8900	1974.8827	1973.4938	0.1889	1	R.FKVTNQEGLFPLLIEAR.D
304 - 318	1850.2000	1849.1927	1848.6716	0.1211	1	K.NVEQMAIYYRSFIES.-
304 - 318	1866.2100	1865.2027	1865.0665	0.1362	1	K.NVEQMAIYYRSFIES.- Oxidation (M)
LIC10483						
9 - 19	1305.7210	1304.7137	1304.6401	0.0736	0	K.YEGQPGEIVWK.F
47 - 59	1355.7700	1354.7627	1354.7245	0.0382	0	K.ALDVFGPGTHTLK.T
60 - 68	970.5530	969.5457	969.5495	-0.0038	0	K.TGNIPVLEK.L
109 - 116	958.5730	957.5657	957.5396	0.0261	0	K.YHITLGVR.A
117 - 124	926.4820	925.4747	925.4657	0.0090	0	R.AFGNYNIK.V
130 - 141	1316.7500	1315.7427	1315.6885	0.0542	0	K.SFVNTVVGTQHK.F
142 - 149	932.4510	931.4437	931.4036	0.0401	0	K.FDHDGVDK.L
150 - 158	1056.6430	1055.6357	1055.6525	-0.0168	0	K.LLKPMVVTR.L
150 - 158	1072.6570	1071.6497	1071.6474	0.0023	0	K.LLKPMVVTR.L Oxidation (M)
159 - 169	1249.7230	1248.7157	1248.6965	0.0192	0	R.LSDFISEVVLK.N
307 - 322	1766.0100	1765.0027	1764.8782	0.1246	0	K.SLLDGGLITQEEFDTK.K
LIC10524						
37 - 47	1135.6450	1134.6377	1134.6284	0.0093	0	R.TTPSIVAFTAK.G
48 - 57	1063.6520	1062.6447	1062.5709	0.0738	0	K.GETLIGQFAK.N
58 - 69	1314.8230	1313.8157	1313.7051	0.1106	0	K.NQAITNAVNTIR.S
103 - 118	1769.9930	1768.9857	1768.8267	0.1590	0	K.FETSAGEFTPQEISAR.V

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC10524						
125 - 134	1152.6450	1151.6377	1151.5458	0.0919	0	K.QTAEDYLGQK.V
160 - 167	886.5350	885.5277	885.4919	0.0358	0	R.IAGLEVER.I
168 - 183	1694.0250	1693.0177	1692.8722	0.1455	0	R.IINEPTAAALAYGFDK.K
242 - 257	1760.0290	1759.0217	1758.8860	0.1357	1	K.NQTGIDISADKNTVQR.L
291 - 298	986.5900	985.5827	985.5015	0.0812	0	K.HLDMTLTR.A
291 - 298	1002.5390	1001.5317	1001.4964	0.0353	0	K.HLDMTLTR.A Oxidation (M)
299 - 306	950.5520	949.5447	949.5233	0.0215	1	R.AKFDQLTK.S
327 - 341	1542.9790	1541.9717	1541.8412	0.1305	0	K.ASDINEVILVGGSIR.I
342 - 350	996.6480	995.6407	995.6015	0.0392	0	R.IPAVQELVK.Q
419 - 441	2444.3700	2443.3627	2443.2091	0.1536	0	K.SQVFSTAADNQSAVSIHVLQGER.E
449 - 463	1622.9570	1621.9497	1621.9304	0.0194	1	R.TLGRFDLIGIPPAPR.G
453 - 463	1195.7840	1194.7767	1194.6761	0.1007	0	R.FDLIGIPPAPR.G
497 - 510	1521.7970	1520.7897	1520.7206	0.0692	0	R.IESSSGLSEDEIQK.M
533 - 544	1425.8290	1424.8217	1424.7035	0.1183	0	K.NELDTLTYSLEK.T
559 - 567	1073.5770	1072.5697	1072.5876	-0.0179	1	K.QLATDEIKR.A
633 - 646	1595.8770	1594.8697	1594.7726	0.0971	1	K.VVDADYTVVDDEKK.-
LIC10591						
1 - 14	1640.6500	1639.6427	1639.8239	-0.1812	1	-.MEARLVYVTTSNEK.E
5 - 18	1594.4600	1593.4527	1593.6614	-0.2086	1	R.LVYVTTSNEKEALK.I
22 - 37	1798.1600	1797.1527	1796.9818	0.1709	1	K.TLVEERLAACANIIPK.M
40 - 59	2456.0700	2455.0627	2455.1998	-0.1371	1	K.SIYHWEDKLIEENEAILILK.S
74 - 93	2213.3200	2212.3127	2212.1562	0.1565	0	K.SLHSYSVPCIVSLPLLEGNK.D
94 - 106	1607.4800	1606.4727	1606.6191	-0.1464	0	K.DYFSWIYSEVLAD.-
LIC10600						
9 - 19	1240.7550	1239.7477	1239.6533	0.0945	0	K.MEVGQELPPLK.T
20 - 30	1252.8550	1251.8477	1251.6935	0.1542	0	K.TEVITHANLVR.Y
31 - 49	2064.1100	2063.1027	2062.9133	0.1895	0	R.YAGASGDFNPIHNDPDFAR.K
51 - 69	1991.1630	1990.1557	1989.9764	0.1793	0	K.TGLDGTIAHGMYVMAQLGR.L
51 - 69	2007.1390	2006.1317	2005.9713	0.1604	0	K.TGLDGTIAHGMYVMAQLGR.L Oxidation (M)
82 - 88	827.4630	826.4557	826.4225	0.0333	0	K.EFGVTFK.N
114 - 129	1646.9820	1645.9747	1645.8410	0.1337	0	K.LITVAVEATDDSGEVK.C
LIC10601						
15 - 24	1322.5560	1321.5487	1321.5938	-0.0451	0	K.LDHYEFDVER.G
50 - 72	2598.2610	2597.2537	2597.2478	0.0059	0	K.AGYEDTPAPPTYPTVIQFWGYPK.I
73 - 86	1681.7310	1680.7237	1680.7236	0.0002	0	K.IWQDMENMGVDTSR.I
73 - 86	1697.7050	1696.6977	1696.7185	-0.0208	0	K.IWQDMENMGVDTSR.I Oxidation (M)
73 - 86	1713.7000	1712.6927	1712.7134	-0.0207	0	K.IWQDMENMGVDTSR.I 2 Oxidation (M)
73 - 91	2302.0960	2301.0887	2301.1245	-0.0358	1	K.IWQDMENMGVDTSRILHLK.E Oxidation (M)
94 - 104	1370.7150	1369.7077	1369.7394	-0.0317	0	K.YTYLKPIYPGR.V
133 - 146	1651.8440	1650.8367	1650.8286	0.0081	0	K.GETIVEQEMSIFIR.K
133 - 146	1667.8240	1666.8167	1666.8236	-0.0068	0	K.GETIVEQEMSIFIR.K Oxidation (M)

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC10619						
16 - 33	2284.0910	2283.0837	2283.0374	0.0464	1	K.LKDDLYTFAQMLCSPYMR.F 2 Oxidation (M)
34 - 53	2407.1070	2406.0997	2406.0838	0.0160	1	R.FFDLSCVDGDWKEIDFAQSK.E
135 - 144	1226.7450	1225.7377	1225.5801	0.1576	0	K.YELVNMWGAK.D Oxidation (M)
LIC10629						
28 - 37	1235.1600	1234.1527	1234.3306	-0.1778	1	K.GNIVERQYEK.T
69 - 85	1997.4900	1996.4827	1995.8887	0.1940	1	K.NQQIVKEIIALGICNQR.G
120 - 135	1874.3100	1873.3027	1873.0938	0.2089	1	R.NLIWTIIRVVSTFVGR.L
136 - 158	2705.3100	2704.3027	2704.2706	0.0321	1	R.LTNHPMMIATSMLRFTTDHATCR.L
176 - 190	1788.2500	1787.2427	1787.3134	-0.0707	0	K.GEVLFGTLDTWFIYK.L
259 - 276	2086.5800	2085.5727	2084.3867	0.1861	0	R.ASIGDQMAALFGHCCFER.G Oxidation (M)
281 - 296	1602.8700	1601.8627	1601.8413	0.0214	0	K.ISQGSGAFVDINIGPK.A
302 - 311	1263.2200	1262.2127	1262.3501	0.1374	1	K.RGLFPMIAWR.I Oxidation (M)
380 - 392	1367.4200	1366.4127	1365.2841	0.1287	1	K.ASVIGLSLASHRR.H
426 - 450	2778.5000	2777.4927	2777.3767	0.1161	1	K.VDGGVSQSDILLQCLSDFSNVRVNR.S
487 - 496	1178.9700	1177.9627	1177.7801	0.1826	1	K.SFEPKMNPTK.R
487 - 496	1194.0500	1193.0427	1193.0750	-0.0323	1	K.SFEPKMNPTK.R Oxidation (M)
506 - 515	1032.5500	1031.5427	1031.5863	-0.0435	1	K.KAVTATLSIE.-
LIC10664						
43 - 50	982.5950	981.5877	981.4412	0.1465	0	K.GFTCPICK.I
59 - 64	889.4700	888.4627	888.3986	0.0641	0	K.YLFCMR.S
59 - 64	905.4690	904.4617	904.3935	0.0682	0	K.YLFCMR.S Oxidation (M)
79 - 85	870.5490	869.5417	869.4970	0.0447	0	K.EIVRPEK.I
86 - 95	1150.7390	1149.7317	1149.5666	0.1651	0	K.IVQTDNFADK.D
LIC10672						
72 - 80	1060.5440	1059.5367	1059.5196	0.0171	0	R.DLEATINER.L
87 - 100	1674.9590	1673.9517	1674.0192	-0.0674	1	K.KHSLLVILRPELEK.V
88 - 100	1546.9280	1545.9207	1545.9242	-0.0035	0	K.HSLLVILRPELEK.V
127 - 133	854.4590	853.4517	853.4446	0.0071	1	R.FRFEAGK.I
146 - 155	1288.6380	1287.6307	1287.6135	0.0172	0	R.IQYEFAFENK.R
146 - 156	1444.7260	1443.7187	1443.7146	0.0041	1	R.IQYEFAFENKR.L
157 - 170	1527.8580	1526.8507	1526.8708	-0.0201	0	R.LIFTPPDVLASQVK.L
196 - 202	817.4930	816.4857	816.4705	0.0152	0	R.LLESSLR.S
LIC10733						
23 - 36	1707.8320	1706.8247	1706.9719	-0.1472	1	K.LQLLLKDHFPENLK.T
63 - 73	1193.7130	1192.7057	1192.6703	0.0354	0	K.IIYLGLGETSK.I
63 - 75	1434.8350	1433.8277	1433.8493	-0.0216	1	K.IIYLGLGETSKIK.I
144 - 158	1616.8350	1615.8277	1615.9297	-0.1019	1	K.IGNVSFILQDAAKLK.E
203 - 217	1716.8910	1715.8837	1715.9093	-0.0256	1	K.DNGLKITVFDEPQLK.K
237 - 250	1645.8660	1644.8587	1644.9524	-0.0937	0	K.MILLEYTPVKPITK.K
345 - 357	1390.7780	1389.7707	1389.8231	-0.0524	1	R.LVLGDVLSYVGKK.F

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC10752						
2 - 12	1188.6450	1187.6377	1187.6397	-0.0020	0	M.STEALLEQIGK.L
13 - 23	1171.7130	1170.7057	1170.6860	0.0198	0	K.LTLVEAADLVK.K
79 - 89	1087.6110	1086.6037	1086.5921	0.0117	0	R.EITGLGLADAK.G
114 - 125	1290.7470	1289.7397	1289.6979	0.0418	1	K.KFEGAGAQIELK.A
115 - 125	1162.6260	1161.6187	1161.6030	0.0158	0	K.FEGAGAQIELK.A
115 - 127	1320.7180	1319.7107	1319.6721	0.0386	1	K.FEGAGAQIELKAS.-
LIC10767						
4 - 17	1570.6460	1569.6387	1569.7463	-0.1076	1	R.KFPENPASFSDGFK.Y
98 - 110	1532.6870	1531.6797	1531.8279	-0.1482	1	R.DEMAVSILLKEIR.G Oxidation (M)
246 - 253	870.5710	869.5637	869.5698	-0.0061	1	R.KGLKPISK.E
LIC10771						
4 - 22	1994.2740	1993.2667	1993.0156	0.2512	1	K.GSPPGKYGTSIFLNGLEEK.I
69 - 89	2271.1490	2270.1417	2270.1656	-0.0239	0	K.EILELGTGYGVSLFWMASGLK.V
109 - 125	2096.2070	2095.1997	2095.1102	0.0896	1	R.SYLEKHPFENLDIHLLK.V
126 - 133	1069.5470	1068.5397	1068.5538	-0.0141	0	K.VHCLHYLK.E
134 - 146	1475.4460	1474.4387	1474.6874	-0.2487	0	K.EICGNPNVSWTAK.F
LIC10788						
37 - 53	1772.7510	1771.7437	1771.9428	-0.1990	1	K.RGIDTATGIDVSGLELR.S
38 - 53	1616.6040	1615.5967	1615.6417	-0.1449	0	R.GIDTATGIDVSGLELR.S
128 - 144	1992.8940	1991.8867	1992.0217	-0.1350	0	K.FQFTYPGENAVTIRPPR.I
168 - 178	1195.2720	1194.2647	1194.4284	-0.1637	0	K.IYGVEFPGVSK.A
179 - 187	1065.1150	1064.1077	1064.2895	-0.1818	0	K.AMSVWVCGR.G
188 - 201	1752.5490	1751.5417	1751.6791	-0.1373	0	R.GNEYNLEGWIEDWK.G
250 - 267	2131.9930	2130.9857	2131.0221	-0.0364	0	R.SRPDTSGETVYLFFDELR.V
268 - 290	2687.3330	2686.3257	2686.1493	0.1765	0	R.VLSDVFEVHFDGASIDFDDEDCR.S
LIC10838						
21 - 38	1956.9500	1955.9427	1955.9628	-0.0201	0	K.VTGIGGIFFFSDNPQETK.E
44 - 59	1839.8450	1838.8377	1838.8434	-0.0057	0	K.NLGLETNEWGSTFESR.D
87 - 94	1086.5420	1085.5347	1085.5328	0.0020	1	K.KDFMINYR.V
88 - 94	958.4140	957.4067	957.4378	-0.0311	0	K.DFMINYR.V
88 - 94	974.3740	973.3667	973.4327	-0.0660	0	K.DFMINYR.V Oxidation (M)
LIC10851						
2 - 10	959.5620	958.5547	958.5447	0.0100	0	M.AAVTTDLIR.E
2 - 13	1357.7050	1356.6977	1356.7725	-0.0748	1	M.AAVTTDLIRELR.E
72 - 87	1749.9750	1748.9677	1748.9196	0.0482	0	K.IGVLVELNSETDFVSK.N
72 - 96	2753.3420	2752.3347	2752.3806	-0.0459	1	K.IGVLVELNSETDFVSKNEDFEALGK.E
97 - 122	2963.3720	2962.3647	2962.4125	-0.0478	0	K.EICMQIAAMNPLYLNEESIPAADLEK.E
97 - 124	3220.8010	3219.7937	3219.5101	0.2036	1	K.EICMQIAAMNPLYLNEESIPAADLEKEK.T

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC10973						
48 - 60	1383.7230	1382.7157	1382.6466	0.0691	0	K.DGLDAASYYGPVR.S
94 - 101	870.5360	869.5287	869.4970	0.0317	1	R.KAIPAENK.L
102 - 107	730.4150	729.4077	729.4385	-0.0308	0	K.LITLDR.T
108 - 116	902.5310	901.5237	901.4981	0.0256	0	R.TTGGLINAR.S
250 - 264	1545.9480	1544.9407	1544.8310	0.1097	0	R.TSGIAPNFLIGTQAR.V
288 - 313	2664.5650	2663.5577	2663.3707	0.1871	0	K.TQSAGGATNLSPFPAYPIVVGGQIYR.F
LIC11003						
95 - 104	1080.4650	1079.4577	1079.4884	-0.0306	0	K.SFPSSVDDAR.K
165 - 175	1270.5720	1269.5647	1269.5989	-0.0342	0	R.LAAFDQYEASR.Q
197 - 208	1392.6210	1391.6137	1391.6933	-0.0795	0	K.QQLIDSFADIDK.N
216 - 228	1480.6450	1479.6377	1479.6841	-0.0464	1	K.YAEGKDPEVSETR.N
243 - 254	1437.6580	1436.6507	1436.7147	-0.0640	1	K.IKEGYSEIDDIR.K
245 - 255	1324.5930	1323.5857	1323.6306	-0.0449	1	K.EGYSEIDDIRK.K
300 - 307	1042.4790	1041.4717	1041.4880	-0.0162	0	R.DFQVSYQR.A
320 - 330	1211.5480	1210.5407	1210.5717	-0.0310	0	R.VAAEDLYSSEK.Y
320 - 337	2061.8010	2060.7937	2060.9538	-0.1601	1	R.VAAEDLYSSEKYEDSISR.S
396 - 406	1200.5570	1199.5497	1199.5822	-0.0325	0	K.IGEDGLPEGWK.R
396 - 407	1356.6450	1355.6377	1355.6834	-0.0456	1	K.IGEDGLPEGWKR.Y
LIC11128						
13 - 25	1484.9410	1483.9337	1483.8358	0.0979	0	K.LVNNSLDLLSIQR.L
26 - 39	1558.9620	1557.9547	1557.8150	0.1397	0	R.LDGTVLQVNPAFER.L
52 - 62	1374.7900	1373.7827	1373.6840	0.0987	0	R.NPFHLLHPEDR.E
72 - 84	1503.9190	1502.9117	1502.7993	0.1124	0	K.LNQGLPVFAFQNR.F
LIC11194						
63 - 72	1223.6310	1222.6237	1222.6669	-0.0432	1	K.EKEHAELIVR.L
65 - 72	966.3570	965.3497	965.5294	-0.1797	0	K.EHAELIVR.L
98 - 110	1340.6740	1339.6667	1339.6983	-0.0316	0	K.QDVDIIVPGAGEK.I
111 - 121	1272.7630	1271.7557	1271.7601	-0.0044	0	K.IAYITIPKPTR.A
122 - 134	1523.8450	1522.8377	1522.7701	0.0676	0	R.AAQVEEMITYIQK.A
122 - 134	1539.8590	1538.8517	1538.7650	0.0867	0	R.AAQVEEMITYIQK.A Oxidation (M)
194 - 204	1312.6800	1311.6727	1311.6571	0.0156	0	K.SPGQFEHELLR.R
241 - 250	1233.5920	1232.5847	1232.6050	-0.0203	1	K.RAHDDFGFLR.M
242 - 250	1077.4180	1076.4107	1076.5039	-0.0932	0	R.AHDDFGFLR.M
305 - 312	1126.4900	1125.4827	1125.5858	-0.1031	0	R.YFWEILQK.A
315 - 327	1427.8750	1426.8677	1426.7779	0.0898	1	K.LTGISIPEEANKR.F

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11196						
2 - 22	2217.2040	2216.1967	2216.1358	0.0609	0	M.SLTQEEMGDLVGPLSISIATR.D
2 - 22	2233.2080	2232.2007	2232.1307	0.0700	0	M.SLTQEEMGDLVGPLSISIATR.D Oxidation (M)
23 - 32	1183.6210	1182.6137	1182.6145	-0.0008	0	R.DAELKPHFAR.A
44 - 51	952.4350	951.4277	951.4921	-0.0644	0	K.FMTVMVPK.V
66 - 78	1414.7600	1413.7527	1413.7802	-0.0275	0	K.LIAVTVAHMANFK.T
66 - 78	1430.7470	1429.7397	1429.7751	-0.0354	0	K.LIAVTVAHMANFK.T Oxidation (M)
105 - 118	1453.7010	1452.6937	1452.6884	0.0053	0	R.ESGAENSALFFGPK.A
126 - 135	1145.6920	1144.6847	1144.6968	-0.0121	0	K.YIIRPSVAVK.F
136 - 149	1609.8410	1608.8337	1608.8035	0.0302	0	K.FELSELFDQSPGIK.A
LIC11205_6						
15 - 23	2058.6310	2058.6660	2058.6669	-0.0432	1	R.DSDFPILIAYRSSLI.R
32 - 37	966.3570	965.3497	965.5294	-0.1797	0	K.YSISNLE.R
62 - 81	1690.6740	1699.6667	1699.6983	-0.0316	0	K.YFLELLYPEYEG.R
81 - 98	1292.7630	1291.7557	1291.7601	-0.0044	0	R.VLLDGAFHSLSGFVHSPS.K
195 - 206	1523.8450	1522.8377	1522.7701	0.0676	0	K.TYTPEEVEGI.R
228 - 247	1599.8590	1598.8517	1598.7650	0.0867	0	R.GQELFQGLSDLEM.K
LIC11219						
2 - 12	1202.5560	1201.5487	1201.6343	-0.0855	0	M.PQVTSLAPDFK.A
97 - 105	1033.4980	1032.4907	1032.5855	-0.0948	0	K.YPLIADLTK.S
110 - 122	1406.6490	1405.6417	1405.7201	-0.0784	0	R.DYNVLTEGGVALR.G
123 - 134	1258.6330	1257.6257	1257.7081	-0.0823	0	R.GTFIIDPAGVIR.Q
135 - 145	1183.5760	1182.5687	1182.6357	-0.0669	0	R.QATINDLPVGR.N
146 - 152	830.3460	829.3387	829.4294	-0.0906	0	R.NIDEAIR.L
156 - 162	868.3010	867.2937	867.4490	-0.1553	0	K.AFQFVEK.H
163 - 176	1626.6120	1625.6047	1625.7256	-0.1209	1	K.HGEVCPANWDEGKK.T
LIC11220						
15 - 27	1626.6600	1625.6527	1625.8314	-0.1787	1	R.YYRPDNFPKGLTR.K
188 - 200	1479.9400	1478.9327	1478.7955	0.1372	1	K.GVKTPMPLQAYFK.V
191 - 211	2345.1100	2344.1027	2344.1521	-0.0494	1	K.TPMPLQAYFKVTAASSGQYER.T
342 - 353	1237.2800	1236.2727	1236.4099	-0.1371	0	K.GVSLDGGINSYR.G
342 - 357	1634.6000	1633.5927	1633.7788	-0.1860	1	K.GVSLDGGINSYRGLVK.F
406 - 425	2342.1300	2341.1227	2341.1074	0.0154	1	R.IDEDQLFYLQSRGLSEDDAK.L
454 - 466	1525.8100	1524.8027	1524.7606	0.0421	0	R.MILEDGHVIQENK.D
LIC11228						
1 - 23	2801.9930	2800.9857	2800.2535	0.1322	1	-.MFEGNMRIFQIYIILLLSLFLAR.T
74 - 87	1597.2730	1596.2657	1596.4221	-0.1564	0	K.TGFSTPWTILMISK.T Oxidation (M)
168 - 193	2672.7250	2671.7177	2671.6856	0.1321	1	R.YIDKGPLESLGFAPQPADIGLNATGK.W
226 - 237	1380.1550	1379.1477	1378.4166	0.1311	1	R.FSIEPMLGEKTK.T
236 - 245	1236.0980	1235.0907	1234.2822	0.0085	1	K.TKTGLHLFYR.K
375 - 392	1953.6690	1952.6617	1951.6730	0.1887	0	K.EFLPGLGIPNVDATLQIR.N
465 - 479	1581.2560	1580.2487	1580.2093	0.0394	0	K.ESGNLGIVSYSVLDK.Q

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11231						
16 - 28	1527.8100	1526.8027	1526.6984	0.1044	0	K.LFSEQGYHGTTMR.Q
16 - 28	1541.9100	1540.9027	1541.0933	-0.1906	0	K.LFSEQGYHGTTMR.Q Oxidation (M)
16 - 33	2040.1100	2039.1027	2038.9895	0.1133	1	K.LFSEQGYHGTTMRQVASK.A
16 - 33	2056.1300	2055.1227	2054.9844	0.1383	1	K.LFSEQGYHGTTMRQVASK.A Oxidation (M)
34 - 48	1660.8000	1659.7927	1659.8620	-0.0693	1	K.AGISLGLAYRYFDSK.E
49 - 64	1807.0100	1806.0027	1806.0091	-0.0063	1	K.EAILEGIIESHDKILK.R
94 - 110	2224.3900	2223.3827	2223.4986	-0.1159	1	K.ENEDYLRLYWNLMLQPK.I
101 - 110	1322.7100	1321.7027	1321.6900	0.0127	0	R.LYWNLMLQPK.I Oxidation (M)
117 - 131	1864.0100	1863.0027	1863.0665	-0.0638	1	R.RNIHLVNMIFFETSK.K Oxidation (M)
118 - 132	1821.9600	1820.9527	1819.9655	0.0873	1	R.NIHLVNMIFFETSKK.T
118 - 132	1838.0500	1837.0427	1836.9604	0.0824	1	R.NIHLVNMIFFETSKK.T Oxidation (M)
133 - 147	1812.0700	1811.0627	1810.9625	0.1003	1	K.TIRSVKPNYSEFEIK.N
136 - 147	1439.8100	1438.8027	1438.8296	-0.0269	0	R.SVKPNYSEFEIK.N
165 - 173	1155.6700	1154.6627	1154.8560	-0.1933	1	K.KEFSLDDFR.N
LIC11241						
26 - 44	1942.0720	1941.0647	1941.0055	0.0592	0	K.DLGVEEVGTVLEIGDGIAR.V
98 - 110	1391.9000	1390.8927	1390.8184	0.0743	0	R.ILEVPVGPELLGR.V
111 - 122	1237.7230	1236.7157	1236.6714	0.0443	0	R.VVNPLGEPIDGK.G
129 - 143	1594.8790	1593.8717	1593.8661	0.0056	0	K.LTRPVESPAPGIAMR.Q
129 - 143	1610.9290	1609.9217	1609.8610	0.0607	0	K.LTRPVESPAPGIAMR.Q Oxidation (M)
144 - 155	1300.6880	1299.6807	1299.6493	0.0314	0	R.QPVGEPMQTGIK.A Oxidation (M)
156 - 165	1056.6540	1055.6467	1055.5797	0.0670	0	K.AIDAMIPIGR.G
156 - 165	1072.6410	1071.6337	1071.5746	0.0591	0	K.AIDAMIPIGR.G Oxidation (M)
169 - 175	815.5100	814.5027	814.4548	0.0479	0	R.ELIIGDR.G
180 - 191	1316.7900	1315.7827	1315.7347	0.0480	0	K.TSIALDTILNQK.G
192 - 205	1464.8450	1463.8377	1463.7807	0.0571	0	K.GTGVICVYVAIGQK.A
206 - 217	1264.7260	1263.7187	1263.6493	0.0694	0	K.ASTVASTVEMLR.N
206 - 217	1280.7030	1279.6957	1279.6442	0.0515	0	K.ASTVASTVEMLR.N Oxidation (M)
259 - 270	1351.7850	1350.7777	1350.7395	0.0383	1	K.KATLVVYDDLSK.Q
277 - 283	876.5550	875.5477	875.4899	0.0579	0	R.QMSLLLR.R Oxidation (M)
289 - 301	1553.8080	1552.8007	1552.7310	0.0697	0	R.EAYPGDVFYLHSR.L
387 - 395	1151.6950	1150.6877	1150.6168	0.0709	1	K.MKLELAQFR.D Oxidation (M)
396 - 417	2402.2250	2401.2177	2401.1761	0.0416	0	R.DLEAFAQLGTELDPATQAQLDR.G
427 - 447	2374.2740	2373.2667	2373.2216	0.0451	0	K.QPVSSPYPVEEQVVEIFAVTR.G
471 - 481	1338.7230	1337.7157	1337.6463	0.0694	0	K.EQYSEVLDSIR.K
486 - 498	1446.8420	1445.8347	1445.7613	0.0734	1	K.ISDEEKLGEVLSK.V
499 - 505	863.5080	862.5007	862.4548	0.0459	0	K.VAEEFLR.K

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11243						
41 - 54	1495.8530	1494.8457	1494.8042	0.0415	0	K.ETIIAEVQTHIGGK.A
58 - 69	1216.7470	1215.7397	1215.6823	0.0574	0	R.AIALSSTDGLIR.G
70 - 91	2182.1640	2181.1567	2181.1390	0.0177	0	R.GQEVSNTGKPISVPVGDATLGR.I
110 - 116	908.5330	907.5257	907.4988	0.0269	0	K.ETRPIHR.A
128 - 136	1023.5400	1022.5327	1022.5284	0.0043	0	K.TEVFETGIK.V
137 - 146	1144.7050	1143.6977	1143.6903	0.0074	0	K.VIDLLAPYIK.G
150 - 160	963.5160	962.5087	962.5186	-0.0098	0	K.TGLFGGAGVGK.T
161 - 173	1468.8820	1467.8747	1467.8660	0.0087	0	K.TVLIQELINNIAK.Q
174 - 187	1447.7480	1446.7407	1446.7004	0.0403	0	K.QHGGFSVFAGVGER.T
190 - 196	889.4280	888.4207	888.4090	0.0118	0	R.EGNDLWR.E
190 - 199	1293.7400	1292.7327	1292.5819	0.1508	1	R.EGNDLWREMK.E Oxidation (M)
207 - 221	1692.8420	1691.8347	1691.7760	0.0588	0	K.TVLCYGQMNEPPGAR.L
207 - 221	1708.8360	1707.8287	1707.7709	0.0578	0	K.TVLCYGQMNEPPGAR.L Oxidation (M)
224 - 236	1461.7730	1460.7657	1460.7446	0.0212	0	R.VALSALTMAEHFR.D Oxidation (M)
237 - 252	1824.0090	1823.0017	1822.9465	0.0552	0	R.DSIGTDVLLFVDNIFR.F
253 - 266	1421.7630	1420.7557	1420.7310	0.0247	0	R.FSQAGSEVSALLGR.M
267 - 287	2298.0630	2297.0557	2297.0668	-0.0110	0	R.MPSAVGYQPTLSTEMGALQER.I 2 Oxidation (M)
335 - 348	1490.7960	1489.7887	1489.7413	0.0475	0	K.GIYPAVDPLDSTSR.V
349 - 364	1828.9970	1827.9897	1827.9301	0.0596	0	R.VMNAQVLGEEHYLVAR.E
349 - 364	1844.9750	1843.9677	1843.9250	0.0427	0	R.VMNAQVLGEEHYLVAR.E Oxidation (M)
LIC11258						
63 - 74	1311.9070	1310.8997	1310.7380	0.1617	0	R.TPGEIVAIRPMK.D
106 - 119	1469.0800	1468.0727	1467.9296	0.1431	0	R.IVIGVPSGITEVER.R
185 - 196	1294.7050	1293.6977	1293.6088	0.0889	0	R.TGGDEFDEAIIK.Y
200 - 209	1191.7240	1190.7167	1190.6043	0.1124	0	R.NQYNLVVGER.T
216 - 225	1089.6460	1088.6387	1088.5866	0.0522	0	K.LTIGNAFPEK.K
244 - 253	1203.7350	1202.7277	1202.6142	0.1135	0	R.TLELESNEIR.K
255 - 268	1542.0990	1541.0917	1540.9348	0.1569	1	K.ALKEPTDEILDGIK.R
274 - 285	1326.8890	1325.8817	1325.6827	0.1991	0	R.TPPELASDIVER.G
286 - 297	1215.8000	1214.7927	1214.6805	0.1123	0	R.GIVLTGGGCLLR.G
306 - 313	904.4200	903.4127	903.4814	-0.0686	0	K.ETGVPVFR.A
314 - 327	1458.9780	1457.9707	1457.8548	0.1160	0	R.AENPLTCVVLGTGK.Y
334 - 340	846.4120	845.4047	845.5123	-0.1076	0	K.YIKPGIR.-
LIC11261						
143 - 158	1781.9490	1780.9417	1781.0047	-0.0629	0	K.KPIVLLEGISTAQQER.I
181 - 197	1768.7610	1767.7537	1767.9454	-0.1917	0	K.MGPALAHVTGYIGKPTR.D
263 - 273	1233.5470	1232.5397	1232.7128	-0.1731	1	K.DIQIAAYKALK.G
318 - 330	1388.5660	1387.5587	1387.7823	-0.2236	1	R.VKDNGGFLNLAIK.S
320 - 332	1376.5570	1375.5497	1375.7459	-0.1962	1	K.DNGGFLNLAIKSK.F
504 - 520	1952.0350	1951.0277	1951.0487	-0.0210	1	R.DPVDNSIINRTTPQILR.D

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11310						
70 - 84	1802.8790	1801.8717	1801.8152	0.0565	1	R.ESIDEMKHADEVIDR.I Oxidation (M)
77 - 84	954.4750	953.4677	953.4566	0.0111	0	K.HADEVIDR.I
85 - 96	1401.8590	1400.8517	1400.7664	0.0854	0	R.ILYLDGVPDLQR.Y
100 - 111	1355.8130	1354.8057	1354.7456	0.0601	0	K.INVGNNIEEILK.V
112 - 123	1406.8160	1405.8087	1405.7089	0.0998	0	K.VDLELEYAAVER.F
146 - 165	2480.2540	2479.2467	2479.2594	-0.0127	0	K.ILISEEEHIDWIESQQEIIR.Q
166 - 178	1504.8060	1503.7987	1503.7569	0.0418	0	R.QIGVENYLAQQIE.-
LIC11335						
2 - 12	1309.6770	1308.6697	1308.6310	0.0388	1	M.AKDIEYNETAR.R
4 - 12	1110.5590	1109.5517	1109.4989	0.0528	0	K.DIEYNETAR.R
43 - 50	834.4550	833.4477	833.4647	-0.0170	0	K.FGAPTITK.D
58 - 74	1978.0150	1977.0077	1976.9071	0.1007	0	K.EIELEDPLENMGAQMVK.E 2 Oxidation (M)
80 - 104	2503.4520	2502.4447	2502.2813	0.1634	0	K.TNDVAGDGTTTATILAQSIINEGLK.N
105 - 116	1202.6870	1201.6797	1201.6125	0.0672	0	K.NVTAGANPMSLK.K
105 - 116	1218.6230	1217.6157	1217.6074	0.0083	0	K.NVTAGANPMSLK.K Oxidation (M)
122 - 132	1116.6100	1115.6027	1115.6186	-0.0159	0	K.AVTAAVESIQK.R
181 - 196	1839.9090	1838.9017	1838.8720	0.0297	0	K.SIETTLDVVEGMQFDR.G
231 - 238	980.5820	979.5747	979.5702	0.0045	0	K.DLIHILEK.V
308 - 318	1275.7170	1274.7097	1274.6653	0.0445	0	K.LENTTLQMLGR.A
308 - 318	1291.7040	1290.6967	1290.6602	0.0366	0	K.LENTTLQMLGR.A Oxidation (M)
322 - 335	1546.8440	1545.8367	1545.8250	0.0117	1	K.VTVDKENTTIIEGK.G
351 - 363	1613.7940	1612.7867	1612.7216	0.0651	1	K.QIEDTTSEYDREK.L
395 - 403	961.5070	960.4997	960.4876	0.0121	0	R.VEDALSATR.A
404 - 420	1623.9800	1622.9727	1622.9243	0.0484	0	R.AAVEEGIVPGGGLTLLK.A
440 - 450	1356.7190	1355.7117	1355.7925	-0.0808	1	K.IIFRALEEPIR.M
444 - 450	827.4650	826.4577	826.4548	0.0029	0	R.ALEEPIR.M
451 - 468	1855.9460	1854.9387	1854.9509	-0.0122	0	R.MITSNAGLEGSVIVEHAK.A
451 - 468	1872.0440	1871.0367	1870.9458	0.0909	0	R.MITSNAGLEGSVIVEHAK.A Oxidation (M)
LIC11336						
2 - 10	956.6250	955.6177	955.5450	0.0727	0	M.ASIKPLGDR.V
23 - 33	1147.7710	1146.7637	1146.6284	0.1353	0	K.IGSIFVPDTAK.E
41 - 53	1380.9880	1379.9807	1379.7932	0.1875	1	K.VVEIGSGKYEDGK.L
54 - 60	811.4950	810.4877	810.5215	-0.0337	0	K.LIPLEVK.V
77 - 86	1207.8880	1206.8807	1206.6608	0.2199	1	K.SEGKEYLIIR.E
81 - 86	806.4430	805.4357	805.4698	-0.0340	0	K.EYLIIR.E

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11352						
97 - 118	2235.0260	2234.0187	2234.0412	-0.0225	0	R.MISPTGEIGEPGDGDLVSDAFK.A
126 - 136	1475.7400	1474.7327	1474.6816	0.0511	0	K.SMPHWFDTWIR.V
126 - 136	1491.7270	1490.7197	1490.6765	0.0432	0	K.SMPHWFDTWIR.V Oxidation (M)
160 - 174	1800.7070	1799.6997	1799.6969	0.0028	1	K.LDDDDDGDDTYKEER.H
178 - 183	753.3470	752.3397	752.3817	-0.0420	0	K.YNSLTR.I
184 - 191	906.5090	905.5017	905.5698	-0.0681	1	R.IKIPNPPK.S
212 - 223	1369.7160	1368.7087	1368.7289	-0.0201	0	R.ISFTTYKPGEVK.G
LIC11377						
1 - 7	870.5300	869.5227	869.3775	0.1452	0	-.MNMEFAK.I
92 - 101	1128.5160	1127.5087	1127.6914	-0.1827	0	K.TLQTLKPLSK.T
242 - 248	920.4310	919.4237	919.5028	-0.0791	1	K.YFLHRGK.S
268 - 281	1707.8590	1706.8517	1706.7796	0.0721	1	K.RYADTMGMPFYPVK.D 2 Oxidation (M)
316 - 326	1301.6670	1300.6597	1300.5791	0.0806	0	R.MNSLLSCFGEK.D Oxidation (M)
LIC11416						
41 - 48	871.5730	870.5657	870.5075	0.0582	0	K.IPGFRPGK.A
82 - 88	895.5170	894.5097	894.4745	0.0352	0	K.LEHPMIR.F
181 - 198	2013.9850	2012.9777	2012.8936	0.0841	0	K.NSGNTSNDYHLGHENNLK.G
213 - 231	2211.1630	2210.1557	2210.0279	0.1278	1	K.KDFVHTFPEDYSQNEVAGK.T
214 - 231	2083.0160	2082.0087	2081.9330	0.0757	0	K.DFVHTFPEDYSQNEVAGK.T
301 - 309	1173.6570	1172.6497	1172.5866	0.0632	0	K.YVFPESYLR.E
385 - 397	1424.8430	1423.8357	1423.7558	0.0799	0	K.LASSYQISLSDLK.K
LIC11417						
2 - 13	1391.7490	1390.7417	1390.7456	-0.0039	0	M.SVIPYVIEQTSR.G
17 - 23	887.4150	886.4077	886.4185	-0.0107	0	R.SYDIFSR.L
120 - 141	2342.0140	2341.0067	2341.0976	-0.0909	0	R.IMMHQPMGGATGQASDIEIQAR.E
120 - 141	2358.0030	2356.9957	2357.0926	-0.0968	0	R.IMMHQPMGGATGQASDIEIQAR.E Oxidation (M)
146 - 156	1357.7590	1356.7517	1356.7765	-0.0248	1	K.LKEILNSIYHK.H
148 - 156	1116.5770	1115.5697	1115.5975	-0.0277	0	K.EILNSIYHK.H
172 - 181	1189.4990	1188.4917	1188.5121	-0.0204	0	R.NFYMTADEAK.N
172 - 181	1205.4800	1204.4727	1204.5070	-0.0343	0	R.NFYMTADEAK.N Oxidation (M)
182 - 194	1519.8190	1518.8117	1518.8042	0.0076	0	K.NYGIIDTVIQIDR.K
LIC11456						
54 - 68	1804.5270	1803.5197	1802.5777	0.1420	1	R.VQNIEKENLLEFISK.D
60 - 68	1092.7700	1091.7627	1091.5862	0.1765	0	K.ENLLEFISK.D
69 - 78	1203.8220	1202.8147	1202.6601	0.1546	0	K.DISEVPEQMR.A
69 - 78	1219.7910	1218.7837	1218.4550	0.1287	0	K.DISEVPEQMR.A Oxidation (M)
79 - 86	1011.6470	1010.6397	1010.5185	0.1212	0	R.ALNYQFQK.K
87 - 94	1133.7530	1132.7457	1132.6301	0.1156	1	K.KNFYDQYR.D
88 - 94	1005.5990	1004.5917	1004.4352	0.1566	0	K.NFYDQYR.D

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11460						
1 - 10	1207.5480	1206.5407	1206.5550	-0.0143	0	-.MNINEDSLQK.I Oxidation (M)
1 - 16	1860.9830	1859.9757	1859.9411	0.0347	1	-.MNINEDSLQKIAELSR.L
2 - 10	1060.4780	1059.4707	1059.5196	-0.0489	0	M.NINEDSLQK.I
25 - 33	1065.4880	1064.4807	1064.5138	-0.0331	0	K.EATLQDFNK.I
LIC11511						
16 - 29	1489.7490	1489.7417	1489.7456	-0.0039	0	K.ISEPVTEDEIQT.K
36 - 43	915.4150	915.4077	915.4185	-0.0107	0	R.DMFDTM.R
59 - 71	1344.0140	1344.0067	1344.0976	-0.0909	0	K.QIVVVGSDNE.R
93 - 109	1742.0030	1742.9957	1742.0926	-0.0968	0	K.DTSGFWEGCLSVPGM.R Oxidation (M)
109 - 119	1231.7590	1231.7517	1231.7765	-0.0248	0	R.GYVERPNQI.R
119 - 126	967.5770	967.5697	967.5975	-0.0277	0	R.MQWMDE.K
126 - 138	1386.4990	1386.4917	1386.5121	-0.0204	0	K.GNQFDETIDGY.K
138 - 157	2273.4800	2273.4727	2273.5070	-0.0343	0	K.AIVYQHECDHLQGILYVD.R
162 - 178	1808.8190	1808.8117	1808.8042	0.0076	0	K.LFGFNETLDSSHNVLD
LIC11531						
1 - 14	1636.8800	1635.8727	1635.8667	0.0060	0	-.MIINHNISAIFAHR.T
92 - 107	1748.9390	1747.9317	1747.8741	0.0577	0	R.VLAVQAANGIYTEEDR.Q
163 - 176	1551.8130	1550.8057	1550.8126	-0.0069	0	R.VYIETMNTAALGLR.N
192 - 204	1314.6800	1313.6727	1313.6939	-0.0212	0	K.ANSVIGLADDALR.S
209 - 219	1326.6850	1325.6777	1325.6476	0.0301	1	K.QRADLGAYYNR.L
211 - 219	1042.4230	1041.4157	1041.4879	-0.0722	0	R.ADLGAYYNR.L
226 - 240	1666.8100	1665.8027	1665.7780	0.0247	0	K.GLMNAYENIQAAESR.I
226 - 240	1682.7980	1681.7907	1681.7729	0.0178	0	K.GLMNAYENIQAAESR.I Oxidation (M)
241 - 255	1801.8900	1800.8827	1800.8135	0.0693	1	R.IRDTDMAEQMTSFTR.Y
241 - 255	1817.8810	1816.8737	1816.8084	0.0653	1	R.IRDTDMAEQMTSFTR.Y Oxidation (M)
243 - 255	1532.6540	1531.6467	1531.6283	0.0184	0	R.DTDMAEQMTSFTR.Y
LIC11532						
41 - 53	1327.6480	1326.6407	1326.5762	0.0646	0	R.AGDDALGFAMSEK.M Oxidation (M)
110 - 125	1926.1170	1925.1097	1925.0469	0.0628	1	R.KLVQLEVDQLIEEVDR.I
111 - 125	1797.9980	1796.9907	1796.9520	0.0387	0	K.LVQLEVDQLIEEVDR.I
129 - 144	1766.9340	1765.9267	1765.8747	0.0520	0	K.SAEFNHIKPLSGDHSK.Q
210 - 218	1042.5350	1041.5277	1041.4879	0.0398	0	R.ADLGAYYNR.L
219 - 239	2299.1880	2298.1807	2298.1161	0.0646	0	R.LEITSQGLQSSYVNMVAAESR.V Oxidation (M)
242 - 254	1542.7400	1541.7327	1541.6668	0.0659	0	R.DADMAEQIVDYTR.N Oxidation (M)

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11550						
129 - 138	1179.6600	1178.6527	1178.5931	0.0596	1	R.TKEAEELFGR.M
150 - 167	2268.0220	2267.0147	2267.0357	-0.0210	1	R.EFYYQEYPACIFAHSKSK.A
193 - 207	1475.7730	1474.7657	1474.8758	-0.1101	0	K.GIILLGTSAIAVYGK.E
217 - 230	1586.8360	1585.8287	1585.8901	-0.0614	0	R.TLDFLPGVPMIVLR.S Oxidation (M)
231 - 242	1301.6440	1300.6367	1300.6986	-0.0619	1	R.SPEAISAIETKR.M
266 - 280	1759.9820	1758.9747	1758.9992	-0.0244	1	K.ESILSQLAIFQNRLK.D
LIC11569						
1 - 10	1250.7100	1249.7027	1249.6852	0.0175	1	-.MNAIFLELRK.N Oxidation (M)
2 - 9	975.4750	974.4677	974.5549	-0.0871	0	M.NAIFLELR.K
131 - 146	1669.8440	1668.8367	1668.7994	0.0373	0	K.AEAQEFAIGETVGGYK.I
166 - 178	1355.6970	1354.6897	1354.7204	-0.0307	1	K.VEIGQTPGEARAK.L
187 - 198	1126.6200	1125.6127	1125.5414	0.0713	0	K.AEGGPPAGDTVR.K
LIC11643						
6 - 25	2228.8650	2227.8577	2228.0279	-0.1702	0	K.FLIVFSSVLTTGLLVFNACK.K
84 - 95	1291.5830	1290.5757	1290.6568	-0.0811	0	K.VDIQFADGSAIR.I
180 - 198	2100.8220	2099.8147	2100.0838	-0.1690	1	R.VVVLEGLSDEEIAKDEDLK.K
200 - 213	1544.7030	1543.6957	1543.8457	-0.1500	0	K.IQQTVASSEIVLEK.N
261 - 272	1349.6180	1348.6107	1348.7086	-0.0979	1	R.TIVTVDKDTTEK.M
298 - 306	1002.5530	1001.5457	1001.5505	-0.0048	1	K.KLESEVAAR.Q
316 - 323	855.5050	854.4977	854.5225	-0.0248	0	K.QVLISAPK.E
316 - 326	1225.7390	1224.7317	1224.7441	-0.0124	1	K.QVLISAPKELK.S
330 - 337	1071.4940	1070.4867	1070.5033	-0.0165	0	K.DIVNYYER.I
371 - 387	2038.7650	2037.7577	2038.0371	-0.2794	1	K.KINQADVQEVIYDFQTK.A
372 - 387	1910.7030	1909.6957	1909.9422	-0.2464	0	K.INQADVQEVIYDFQTK.A
LIC11652						
1 - 14	1653.7880	1652.7807	1652.7967	-0.0160	0	-.MELYLDTANVDEIK.E
1 - 14	1669.8380	1668.8307	1668.7916	0.0391	0	-.MELYLDTANVDEIK.E Oxidation (M)
15 - 34	2048.0920	2047.0847	2047.0837	0.0011	0	K.EIASYGLVDGVTTNPSLIAK.S
84 - 92	965.6390	964.6317	964.5957	0.0361	0	K.VPLIPEGLK.T
100 - 120	2285.2540	2284.2467	2284.2361	0.0106	1	K.RNIPTNVTLCFSAPQALLAAK.A
101 - 120	2129.1550	2128.1477	2128.1350	0.0127	0	R.NIPTNVTLCFSAPQALLAAK.A
121 - 132	1236.7210	1235.7137	1235.6662	0.0475	0	K.AGATFISPFIGR.V
133 - 148	1865.8580	1864.8507	1864.8513	-0.0005	0	R.VDDTSWDGMELISEIR.E
133 - 148	1881.8610	1880.8537	1880.8462	0.0075	0	R.VDDTSWDGMELISEIR.E Oxidation (M)
149 - 159	1408.6270	1407.6197	1407.5942	0.0255	0	R.EIYDNYGYDTR.I
178 - 194	1893.9150	1892.9077	1892.8913	0.0164	0	R.GADCATMPHSAFLQLFK.H
178 - 194	1909.9190	1908.9117	1908.8862	0.0255	0	R.GADCATMPHSAFLQLFK.H Oxidation (M)

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11657						
7 - 26	2157.1780	2156.1707	2156.0596	0.1111	1	K.STATVEQYKSNEISTVSQGK.L
16 - 26	1149.6070	1148.5997	1148.5673	0.0324	0	K.SNEISTVSQGK.L
27 - 49	2662.3900	2661.3827	2661.4312	-0.0484	1	K.LIVMLYDGAIRFLNIALENNTPR.K Oxidation (M)
38 - 50	1529.7540	1528.7467	1528.8361	-0.0894	1	R.FLNIALENNTPRK.Y
LIC11695						
7 - 22	1822.0600	1821.0527	1821.2097	-0.1569	0	R.VVLAVVLMITNLSFCK.Q Oxidation (M)
23 - 40	2088.6600	2087.6527	2087.6262	0.0265	1	K.QEDNINVNETLGFLLLKK.T
41 - 60	2160.0300	2159.0227	2159.1335	-0.1107	1	K.TSESVGESLGLTIAFSHRLR.R
59 - 70	1476.0600	1475.0527	1475.0667	-0.0140	1	R.LRRPNGEIFSCK.E
71 - 80	1246.4700	1245.4627	1245.3037	0.1590	1	K.EYSTAYLDKR.A
96 - 116	2291.3500	2290.3427	2290.4308	-0.0881	1	K.VGINLDLVIDRVDGPCVVPNK.V
143 - 160	2238.1700	2237.1627	2237.0979	0.0648	0	R.EYWVPTMHFYQLPVQTAK.E
161 - 177	1944.3200	1943.3127	1943.1054	0.2073	1	K.EACTNTTINRGISSEYK.C
171 - 183	1546.2600	1545.2527	1545.4246	-0.1718	1	R.GISSEYKCYVQGR.C
LIC11731						
9 - 30	2462.3590	2461.3517	2461.1761	0.1757	0	R.VVTFHYTLHDTEGNLIDSSEGK.T
68 - 82	1719.0580	1718.0507	1717.9039	0.1469	1	K.AYGIKDPDLIFDVPR.S
73 - 82	1186.7000	1185.6927	1185.6030	0.0898	0	K.DPDLIFDVPR.S
140 - 160	2322.1760	2321.1687	2321.0070	0.1617	0	R.EATQEEISHGHVHGEGGHHHH.-
LIC11782						
75 - 85	1312.6890	1311.6817	1311.7186	-0.0369	1	R.LYRVLSEFASK.K
101 - 116	1786.9080	1785.9007	1785.8818	0.0189	0	K.ELLEPSVSAPSIEEMR.A
101 - 116	1802.8970	1801.8897	1801.8767	0.0130	0	K.ELLEPSVSAPSIEEMR.A Oxidation (M)
138 - 148	1281.7420	1280.7347	1280.6724	0.0623	0	K.AEIENHLISQK.K
154 - 161	995.5670	994.5597	994.4984	0.0613	0	R.NNFFGQLR.N
162 - 169	965.5130	964.5057	964.4978	0.0080	0	R.NQYNISVK.V
178 - 195	1824.9220	1823.9147	1823.9013	0.0134	0	R.DNTILAGNNPSIGPENAK.V
196 - 210	1877.8770	1876.8697	1876.8375	0.0322	0	K.VTVIEFSDFECPFCK.R
258 - 263	919.4630	918.4557	918.4276	0.0282	0	K.YWEFFK.V
264 - 274	1203.6880	1202.6807	1202.6295	0.0512	0	K.VLFDNSGNLPK.D
290 - 301	1439.7050	1438.6977	1438.6510	0.0467	0	K.VFSQCVNDSEVR.K
LIC11821						
86 - 98	1591.0230	1590.0157	1589.8262	0.1895	0	R.EHAPWALEDYGFR.A
159 - 168	1338.8150	1337.8077	1337.6292	0.1786	0	K.IYYFEVDSFR.K
159 - 169	1466.9020	1465.8947	1465.7241	0.1706	1	K.IYYFEVDSFRK.Y

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11848						
84 - 104	2415.8610	2414.8537	2415.0179	-0.1642	0	K.ANNDECTPAINQEDPANNCIR.V
105 - 112	1040.5100	1039.5027	1039.5338	-0.0311	0	R.VEVYDFIR.D
105 - 116	1569.6550	1568.6477	1568.7470	-0.0993	1	R.VEVYDFIRDEER.G
129 - 145	2088.7610	2087.7537	2087.8894	-0.1357	0	K.YMEIYFEGQNSNDPEPR.T
129 - 145	2104.7520	2103.7447	2103.8843	-0.1396	0	K.YMEIYFEGQNSNDPEPR.T Oxidation (M)
162 - 169	962.4180	961.4107	9 61.4538	-0.0431	0	K.NNMVLEDK.I
178 - 195	2071.8760	2070.8687	2071.0122	-0.1435	1	R.GPNTQPSHNDKVEVFFQK.D
196 - 210	1765.7070	1764.6997	1764.7954	-0.0957	0	K.DNYPEYGRPETPAEK.G
215 - 224	1107.5320	1106.5247	1106.5971	-0.0724	0	K.YILAGVENTK.T
240 - 246	930.3980	929.3907	929.4355	-0.0448	0	K.HLDQFDR.L
251 - 264	1732.6580	1731.6507	1731.7740	-0.1232	0	K.IFDYNDQLGNENYK.E
251 - 271	2502.0210	2501.0137	2501.1710	-0.1572	1	K.IFDYNDQLGNENYKENVDALK.D
LIC11885						
43 - 56	1475.5970	1474.5897	1474.7667	-0.1770	0	K.VTVIGEAPIYNGDK.Q
136 - 151	1654.7650	1653.7577	1653.8685	-0.1108	0	K.ISTAVDNLLADVGNPR.V
160 - 180	2071.0570	2070.0497	2070.0785	-0.0288	0	K.VGGAPVFPATPGNFGEAEIIK.A
312 - 326	1845.8160	1844.8087	1844.9308	-0.1221	0	K.EEWFNLTENNPIVLK.F
338 - 349	1415.5070	1414.4997	1414.6980	-0.1983	1	K.FKDDLTEFTATK.E
LIC11890						
1 - 14	1603.9420	1602.9347	1602.8412	0.0935	0	-.MIINHNLAAINSHR.V
1 - 14	1619.8840	1618.8767	1618.8362	0.0406	0	-.MIINHNLAAINSHR.V Oxidation (M)
18 - 25	949.4280	948.4207	948.4664	-0.0457	0	K.FQNNEVAK.N
26 - 35	1141.5080	1140.5007	1140.4903	0.0104	0	K.NMETLSSGMR.I Oxidation (M)
39 - 51	1219.5930	1218.5857	1218.5728	0.0130	0	R.AGDDASGLAVSEK.M
133 - 142	1121.5760	1120.5687	1120.5699	-0.0011	0	K.MALLQGDFAR.G
133 - 142	1137.5560	1136.5487	1136.5648	-0.0161	0	K.MALLQGDFAR.G Oxidation (M)
210 - 218	1025.4950	1024.4877	1024.5090	-0.0212	0	R.ANLGAYFNR.L
225 - 239	1667.9040	1666.8967	1666.7984	0.0983	0	K.GLMVAYENIQASESR.I
225 - 239	1683.9040	1682.8967	1682.7933	0.1034	0	K.GLMVAYENIQASESR.I Oxidation (M)
240 - 254	1742.9730	1741.9657	1741.8192	0.1465	1	R.IRDTDMAEETVAFTK.N Oxidation (M)
LIC11934						
1 - 15	1709.2800	1708.2727	1708.0957	0.1770	1	-.MTNVDPVLLIQKIPK.I
16 - 30	1852.6000	1851.5927	1851.5982	0.0945	1	K.IFLEDILHITQIIRK.E
44 - 52	984.5700	983.5627	983.6015	-0.0388	1	R.DLALSKIPK.E
107 - 122	1818.4200	1817.4127	1817.2571	0.1557	0	R.RPEIVEFGVSLSEDLK.R
125 - 138	1632.1100	1631.1027	1631.0549	0.0479	0	R.DFTMNALAFDLETK.A Oxidation (M)
139 - 153	1666.1600	1665.1527	1664.0733	0.2094	0	K.ALIDEHSGLLDIQNK.I
178 - 192	1647.0800	1646.0727	1645.9464	0.1263	0	R.FVSSLGFHLEPNTAK.A
267 - 281	1840.5400	1839.5327	1839.5420	-0.0093	0	R.LSFLQAWLFGNFQNR.N
316 - 326	1250.1300	1249.1227	1249.1786	-0.1559	0	K.NDSTLTDSEIR.K

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11951						
22 - 27	801.3720	800.3647	800.3929	-0.0282	0	K.NFLDHR.K
29 - 41	1478.7660	1477.7587	1477.7453	0.0135	0	K.IFLWGPVTDESSK.D
47 - 53	909.3430	908.3357	908.5041	-0.1684	0	K.LLYLEMK.D
47 - 57	1322.7120	1321.7047	1321.6951	0.0096	1	K.LLYLEMKDPGK.K Oxidation (M)
151 - 165	1636.8550	1635.8477	1635.8402	0.0075	0	K.LNQILADACGHPISK.L
166 - 183	2205.9040	2204.8967	2204.9419	-0.0452	1	K.LEEDTDRDYYMDAEEAIK.Y
LIC11985						
1 - 18	2099.9200	2098.9127	2098.9993	-0.0866	0	-.MNIYIGNLAYQATEDDLR.K
1 - 18	2115.8990	2114.8917	2114.9942	-0.1025	0	-.MNIYIGNLAYQATEDDLR.K Oxidation (M)
1 - 19	2228.0030	2226.9957	2227.0943	-0.0985	1	-.MNIYIGNLAYQATEDDLRK.A
1 - 19	2244.0250	2243.0177	2243.0892	-0.0714	1	-.MNIYIGNLAYQATEDDLRK.A Oxidation (M)
19 - 31	1456.6810	1455.6737	1455.7357	-0.0620	1	R.KAFESFGEVTSVR.I
20 - 31	1328.6270	1327.6197	1327.6408	-0.0210	0	K.AFESFGEVTSVR.I
53 - 68	1657.7990	1656.7917	1656.8067	-0.0149	0	K.EEGNAAIDGLNGTQIR.G
LIC12002						
203 - 213	1156.6110	1155.6037	1155.6975	-0.0938	1	K.GIVVRDLVTGK.L
533 - 556	2774.2820	2773.2747	2773.3670	-0.0923	1	K.IREEFWQNVNVPGSGTELNQSLEK.A
560 - 577	2082.0550	2081.0477	2081.0503	-0.0025	0	R.VADFLEFGELLCLDALTR.E
578 - 586	1078.4710	1077.4637	1077.4297	0.0340	0	R.EESCGGHFR.E
578 - 596	2270.8920	2269.8847	2269.9181	-0.0334	1	R.EESCGGHFREEYQEEGEAK.R
587 - 597	1367.6220	1366.6147	1366.6000	0.0147	1	R.EEYQEEGEAKR.N
622 - 634	1585.8450	1584.8377	1584.8259	0.0118	1	R.EKLEFENVHLATR.S
624 - 634	1328.6860	1327.6787	1327.6884	-0.0097	0	K.LEFENVHLATR.S
LIC12003						
48 - 59	1445.6810	1444.6737	1444.6041	0.0696	0	K.GEDPIAFEHDCR.E
90 - 103	1698.8370	1697.8297	1697.8049	0.0248	1	R.SFKDGDTVYVEPWR.A
93 - 103	1336.6920	1335.6847	1335.6095	0.0752	0	K.DGDTVYVEPWR.A
171 - 181	1138.6050	1137.5977	1137.5852	0.0125	0	K.NASAMLFVSAK.I
182 - 192	1176.7730	1175.7657	1175.7026	0.0631	0	K.ITHLGLLPQGK.V
LIC12015						
298 - 308	1366.7130	1365.7057	1365.6234	0.0823	1	R.EAWKNEMDSLK.A Oxidation (M)
420 - 430	1234.5780	1233.5707	1233.6088	-0.0381	0	R.SIDSEVNITEK.E
441 - 455	1726.8550	1725.8477	1725.8322	0.0156	0	K.LYAYSKPSSTNPNER.I
456 - 462	805.2650	804.2577	804.4017	-0.1440	0	R.IPEDFGK.V
476 - 486	1356.6970	1355.6897	1355.7085	-0.0188	1	K.KQSIFQDYISK.L
477 - 486	1228.5310	1227.5237	1227.6135	-0.0898	0	K.QSIFQDYISK.L
487 - 494	994.3570	993.3497	993.5131	-0.1633	1	K.LKSENEFK.I

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC11951						
23 - 31	941.6400	940.6327	940.4654	0.1674	0	K.SVFGGEFAK.I
35 - 47	1448.8650	1447.8577	1447.7711	0.0867	1	R.FKDLASPEFPVAK.K
37 - 47	1173.7580	1172.7507	1172.6077	0.1430	0	K.DLASPEFPVAK.K
49 - 62	1608.8970	1607.8897	1607.8705	0.0193	1	K.EENKIMHIALPIGK.Y Oxidation (M)
63 - 77	1711.8080	1710.8007	1710.7527	0.0480	0	K.YNMLMANDVPEAMGR.T
63 - 77	1727.8040	1726.7967	1726.7476	0.0491	0	K.YNMLMANDVPEAMGR.T Oxidation (M)
63 - 77	1743.7950	1742.7877	1742.7426	0.0452	0	K.YNMLMANDVPEAMGR.T 2 Oxidation (M)
LIC12068						
1 - 12	1457.9260	1456.9187	1456.7748	0.1440	1	-.MKFTVYVKPNSK.K Oxidation (M)
18 - 29	1329.7180	1328.7107	1328.7299	-0.0192	1	R.KEEDGVLTIAVR.E
LIC12082						
45 - 55	1219.6250	1218.6177	1218.6165	0.0012	0	R.IALSMIEDAEK.T
88 - 100	1517.9560	1516.9487	1516.7993	0.1495	0	K.LLLVMPESMSIER.R
88 - 100	1533.9400	1532.9327	1532.7942	0.1385	0	K.LLLVMPESMSIER.R Oxidation (M)
88 - 100	1549.9490	1548.9417	1548.7891	0.1526	0	K.LLLVMPESMSIER.R 2 Oxidation (M)
88 - 101	1706.0470	1705.0397	1704.8902	0.1495	1	K.LLLVMPESMSIERR.R 2 Oxidation (M)
103 - 116	1568.9520	1567.9447	1567.7704	0.1743	0	R.IMAAYGAEFELTPR.E
137 - 150	1722.0570	1721.0497	1720.8879	0.1619	0	K.AWMPQQFENEANIK.I Oxidation (M)
244 - 252	1128.4990	1127.4917	1127.4883	0.0034	0	K.DEAFEYAQR.A
256 - 274	1790.1580	1789.1507	1788.9621	0.1887	0	K.EEGLFIGVSSGAALAAVAK.K
285 - 295	1301.7120	1300.7047	1300.6299	0.0748	0	R.ILTFSYDTGER.Y
285 - 309	2789.1860	2788.1787	2788.2959	-0.1172	1	R.ILTFSYDTGERYLSIEGLFPVPSNA.-
296 - 309	1506.9110	1505.9037	1505.7765	0.1272	0	R.YLSIEGLFPVPSNA.-
LIC12114_6						
17 - 38	2283.6400	2283.6327	2283.4654	0.1674	0	K.LFGFCFFCGLGLLSCLPGFL.K
76 - 90	1549.8650	1549.8577	1549.7711	0.0867	0	K.LLAGGDVMFNWGI.R
115 - 127	1316.7580	1316.7507	1316.6077	0.1430	0	R.MNILETPIVAS.K
142 - 148	688.8970	688.8897	688.8705	0.0193	0	K.DLNSL.K
190 - 203	1492.0080	1492.0007	1492.0527	0.0480	0	K.LPEVLEPLNLNL.K
341 - 350	1001.0040	1001.0967	1001.0476	0.0491	0	R.VELVPIFG.K
LIC12211						
30 - 51	2524.1210	2523.1137	2523.2268	-0.1131	0	R.VDIYSDEENIYLLADLPGVEEK.D
52 - 59	958.4390	957.4317	957.5131	-0.0814	0	K.DVQVQLEK.D
60 - 67	873.4520	872.4447	872.4967	-0.0520	0	K.DQLIISGK.T
72 - 78	830.3900	829.3827	829.4294	-0.0466	0	K.DIQGELR.Y
90 - 101	1426.6370	1425.6297	1425.6624	-0.0326	0	R.TFTLTESVEEDR.I
90 - 107	2087.9760	2086.9687	2087.0423	-0.0735	1	R.TFTLTESVEEDRISAVYK.N

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC12233						
27 - 43	1820.9250	1819.9177	1819.9203	-0.0026	0	K.ESLSLPGANYVDEVLSK.S
53 - 62	1149.6590	1148.6517	1148.5938	0.0579	0	R.NYQAILNTGR.L
89 - 100	1406.7160	1405.7087	1405.6877	0.0210	0	K.NPAYFDPENIVK.L
134 - 145	1441.7720	1440.7647	1440.7361	0.0286	0	K.INHNELLSYPNK.F
179 - 189	1343.7120	1342.7047	1342.6629	0.0418	0	R.QIQEISDAFHR.A
241 - 250	1064.5940	1063.5867	1063.5702	0.0166	0	K.LPEVFAGGFK.D
261 - 275	1739.8660	1738.8587	1738.8018	0.0569	0	R.MYTQLTADNPIDMAR.Y
261 - 275	1755.8630	1754.8557	1754.7967	0.0590	0	R.MYTQLTADNPIDMAR.Y Oxidation (M)
286 - 305	1917.0240	1916.0167	1915.9486	0.0681	0	K.IGLINSGGASGENDLSDAVK.A
331 – 346	1718.9580	1717.9507	1717.9250	0.0257	0	K.DGVALLNAIQDVYLSK.D
LIC12246						
41 - 56	1731.9490	1730.9417	1730.8509	0.0909	1	R.EMPIGTAAPTKEQQSK.I Oxidation (M)
123 - 133	1320.6730	1319.6657	1319.6754	-0.0097	1	R.ERVLSMSIEEK.K
125 - 134	1179.6980	1178.6907	1178.6216	0.0691	1	R.VLSMSIEEKK.V Oxidation (M)
226 - 236	1295.5260	1294.5187	1294.5975	-0.0788	1	R.ERYGESCPGLK.S
228 - 247	2247.2570	2246.2497	2246.0677	0.1821	1	R.YGESCPGLKSLGYNFALENK.K
LIC12326						
1 - 10	1214.7250	1213.7177	1213.6125	0.1052	0	-.MESLHIQQTK.T
1 - 10	1230.7090	1229.7017	1229.6074	0.0943	0	-.MESLHIQQTK.T Oxidation (M)
60 - 71	1436.9020	1435.8947	1435.6619	0.2328	0	K.FQLDYFNTSSSK.V
72 - 82	1274.8330	1273.8257	1273.6951	0.1306	0	K.VIMDILDSLQK.Y
72 - 82	1290.8570	1289.8497	1289.6901	0.1597	0	K.VIMDILDSLQK.Y Oxidation (M)
92 - 97	821.3440	820.3367	820.4847	-0.1480	0	K.VLWLYK.E
LIC12407						
388 - 407	2340.2340	2339.2267	2339.1644	0.0623	1	K.IDPGPPREEDLFELSLDEIR.E
395 - 407	1607.8090	1606.8017	1606.7726	0.0291	0	R.EEDLFELSLDEIR.E
410 - 419	1180.6570	1179.6497	1179.6182	0.0315	0	K.GIQQMPHTLR.E
410 - 419	1196.6180	1195.6107	1195.6132	-0.0024	0	K.GIQQMPHTLR.E Oxidation (M)
434 - 447	1704.8330	1703.8257	1703.8406	-0.0149	1	K.KGDVFTEEFIQTYK.A
435 - 447	1576.7430	1575.7357	1575.7456	-0.0099	0	K.GDVFTEEFIQTYK.A
LIC12454						
44 - 57	1649.8730	1648.8657	1648.8528	0.0129	0	K.TLKPDLVTMDITMR.E Oxidation (M)
44 - 57	1665.8820	1664.8747	1664.8477	0.0270	0	K.TLKPDLVTMDITMR.E 2 Oxidation (M)
58 - 70	1477.7830	1476.7757	1476.7460	0.0297	1	R.EKDGIEAAQEIFK.M
60 - 70	1220.6590	1219.6517	1219.6084	0.0433	0	K.DGIEAAQEIFK.M
60 - 74	1681.8540	1680.8467	1680.8029	0.0439	1	K.DGIEAAQEIFKMDSK.A
77 - 91	1630.9330	1629.9257	1629.9011	0.0246	0	R.IIMVTALGQEDLLAK.A Oxidation (M)
99 - 109	1320.7500	1319.7427	1319.6874	0.0553	0	K.DFVVKPFSPER.L

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC12459						
1 - 12	1523.3700	1522.3627	1522.4251	-0.0624	1	-.MILKLEFVMDLR.R Oxidation (M)
2 - 12	1393.1000	1392.0927	1391.9846	0.1081	1	M.ILKLEFVMDLR.R Oxidation (M)
5 - 13	1178.7500	1177.7427	1177.6277	0.1150	1	K.LEFVMDLRR.A
45 - 57	1301.9500	1300.9427	1301.0761	-0.1334	1	K.LRELGAGMPGASK.Q Oxidation (M)
47 - 59	1288.9300	1287.9227	1288.0445	-0.1218	1	R.ELGAGMPGASKQK.L Oxidation (M)
60 - 76	1838.9500	1837.9427	1837.8097	0.1330	0	K.LAILAALNFADELHQAK.E
100 - 113	1590.4200	1589.4127	1589.4408	-0.0281	1	R.KLIMMLEEGIIGDL.- Oxidation (M)
100 - 113	1607.4800	1606.4727	1605.3357	0.1370	1	R.KLIMMLEEGIIGDL.- 2 Oxidation (M)
101 - 113	1478.3800	1477.3727	1477.5408	-0.1681	0	K.LIMMLEEGIIGDL.- 2 Oxidation (M)
LIC12513						
1 - 16	1829.6170	1828.6097	1828.7818	-0.1721	1	-.MTSKECSTENEEVTGK.E
17 - 23	870.5270	869.5197	869.4719	0.0478	1	K.EPDRVVR.K
46 - 57	1341.9950	1340.9877	1340.7703	0.2174	0	R.VFPEPVLVVSQK.F
126 - 134	1126.7210	1125.7137	1125.5852	0.1285	1	K.MERISTFVK.R Oxidation (M)
LIC12515						
116 - 126	1274.7790	1273.7717	1273.6706	0.1011	1	K.AYADFLGVKYK.F
198 - 213	1693.3550	1692.3477	1691.6093	0.1384	0	R.SILDLSDLSGVTFAVR.S
268 - 282	1726.8150	1725.8077	1725.9525	-0.1448	0	K.SIASNFRPLLEPVQR.E
324 - 330	801.4970	800.4897	800.4068	0.0829	0	K.SEWVLAP.-
LIC12573						
17 - 27	1158.6480	1157.6407	1157.6444	-0.0037	0	K.ANVPFGVVIDK.K
51 - 58	809.3820	808.3747	808.4303	-0.0556	0	K.AQIHAGGR.G
80 - 95	1698.9670	1697.9597	1697.9022	0.0576	0	K.ILGMQLITPQTGPEGK.K Oxidation (M)
111 – 120	1284.7210	1283.7137	1283.6761	0.0376	0	K.EYYLSILLDR.S
151 - 165	1564.9590	1563.9517	1563.8732	0.0785	0	K.IAIDPGIGLQVNQAR.Q
166 - 179	1539.8760	1538.8687	1538.8092	0.0595	0	R.QLAFELGLPAESHK.S
220 - 229	1221.6430	1220.6357	1220.6037	0.0320	0	K.IDLDENALYR.H
230 - 237	901.4140	900.4067	900.4202	-0.0135	0	R.HADNAAFR.D
353 - 362	1074.5350	1073.5277	1073.5465	-0.0188	0	R.LQGTNSELGR.E
LIC12621						
6 - 21	1661.8510	1660.8437	1660.8056	0.0382	0	R.ENNNSVIGPGSIFEGK.F
22 - 29	926.4610	925.4537	925.5021	-0.0484	0	K.FYIAGSLR.I
40 - 51	1312.6110	1311.6037	1311.6194	-0.0157	0	K.TDDTLYIGETGK.V
60 - 72	1348.7020	1347.6947	1347.7067	-0.0120	0	R.EVTVSGTMIGNIK.A
60 - 72	1364.7360	1363.7287	1363.7017	0.0271	0	R.EVTVSGTMIGNIK.A Oxidation (M)
85 - 98	1444.8780	1443.8707	1443.8813	-0.0106	0	R.LLGDIIAPALHLAK.G
104 - 113	988.4770	987.4697	987.5349	-0.0651	0	K.GNITITGGQK.K
118 - 128	1222.6470	1221.6397	1221.6353	0.0044	1	K.KIVEESFGGTR.T
119 - 128	1094.5440	1093.5367	1093.5403	-0.0036	0	K.IVEESFGGTR.T

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC12633						
1 - 11	1345.8500	1344.8427	1344.7111	0.1316	0	-.MLSFHLELLDK.I
1 - 11	1361.7400	1360.7327	1360.7061	0.0267	0	-.MLSFHLELLDK.I Oxidation (M)
1 - 15	1862.9300	1861.9227	1862.0376	-0.1148	1	-.MLSFHLELLDKIFLK.N Oxidation (M)
2 - 15	1715.8700	1714.8627	1715.0022	-0.1394	1	M.LSFHLELLDKIFLK.N
50 - 64	1756.8500	1755.8427	1755.9883	-0.1456	1	K.LTHVQSISFQKEIVK.V
95 - 109	1777.8100	1776.8027	1776.8644	-0.0617	0	R.VDSFVLLGYDIYDMK.L
143 - 157	1869.8200	1868.8127	1868.8549	-0.0422	1	K.IENKCVECFVPFGDR.I
298 - 313	1817.8000	1816.7927	1816.8737	-0.0810	1	R.DTSKLVSMDSLQNAHR.L Oxidation (M)
314 - 330	1996.8200	1995.8127	1995.9996	-0.1868	0	R.LGDFFFALHGNHFISFK.I
LIC12634						
184 - 196	1649.8440	1648.8367	1648.7984	0.0383	1	K.YSIYYQEEKIEGK.D
436 - 446	1320.7100	1319.7027	1319.7271	-0.0244	1	K.ILAMEIEARFK.S
479 - 500	2687.2320	2686.2247	2686.3219	-0.0972	1	K.NFPWFGEAWDFIFEDRLLSLGK.K
622 - 633	1399.7050	1398.6977	1398.7255	-0.0278	1	K.ALKNDPQDVPFR.F
731 - 744	1760.0080	1759.0007	1758.9490	0.0517	1	R.GMEELRQILPIFWK.D
779 - 789	1496.8020	1495.7947	1495.7836	0.0111	1	K.VRFVFQNHFFR.D
781 - 789	1241.7360	1240.7287	1240.6141	0.1146	0	R.FVFQNHFFR.D
811 - 822	1477.7610	1476.7537	1476.7096	0.0441	1	K.EEYSKLEIDSHK.A
1060 - 1066	856.5430	855.5357	855.4854	0.0503	1	R.KYYALAK.F
LIC12667						
12 - 19	1060.4640	1059.4567	1059.5648	-0.1080	1	K.FHNIRMVK.K Oxidation (M)
98 - 106	985.4490	984.4417	984.5855	-0.1438	0	R.VAEAEILLK.S
135 - 145	1340.6200	1339.6127	1339.7935	-0.1808	1	R.KLIRPESQITR.S
146 - 154	1033.4430	1032.4357	1032.5451	-0.1094	1	R.SDLNSELKK.Q
182 - 197	1813.9300	1812.9227	1812.9258	-0.0031	0	K.VILYSAFSNETTVDVR.E
249 - 258	1193.5360	1192.5287	1192.6452	-0.1164	1	R.FVLEDKSISR.F
LIC12706						
5 - 23	2192.0980	2191.0907	2191.0943	-0.0035	1	K.KIQSEGNLLEAIQQFCADK.S
6 - 23	2063.9990	2062.9917	2062.9993	-0.0076	0	K.IQSEGNLLEAIQQFCADK.S
45 - 68	2535.3110	2534.3037	2534.2751	0.0287	1	K.KSGLEESSELEKPSPVTVEFASGK.D
46 - 68	2407.2050	2406.1977	2406.1801	0.0176	0	K.SGLEESSELEKPSPVTVEFASGK.D
78 - 96	1944.0260	1943.0187	1943.0211	-0.0023	1	K.KVVSGNPSSALEISLEDAK.A
79 - 96	1815.9390	1814.9317	1814.9261	0.0056	0	K.VVSGNPSSALEISLEDAK.A
97 - 111	1535.8040	1534.7967	1534.7991	-0.0023	0	K.AIDASAEIGSVISFR.E
LIC12765						
17 - 28	1271.7120	1270.7047	1270.6557	0.0490	1	K.IPSPGDKAPDFK.A
32 - 40	1066.6050	1065.5977	1065.5342	0.0635	0	K.QDLSEFSLK.D
48 - 65	1916.1380	1915.1307	1915.0336	0.0971	0	K.ILVAVPSLDTSVCALETK.A
118 - 129	1242.7250	1241.7177	1241.6404	0.0773	0	K.AYGTHIADGPLK.G

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC12795						
3 - 13	1269.7590	1268.7517	1268.7275	0.0243	0	K.LTKPLAICTPR.R
14 - 22	1031.6150	1030.6077	1030.5923	0.0154	1	R.RTPFAQIAK.A
23 - 34	1246.6770	1245.6697	1245.6618	0.0079	0	K.ALGPYPGHHLGK.I
46 - 68	2342.1800	2341.1727	2341.2025	-0.0298	0	K.LKPSQIDGVVVGEGFSNAPNSAR.V
69 - 77	972.5910	971.5837	971.5586	0.0252	0	R.VIANLVGMR.D
235 - 243	1014.5500	1013.5427	1013.5141	0.0286	0	R.EGLVENPTR.M
271 - 285	1597.8710	1596.8637	1596.8372	0.0265	1	K.KSHGPTVSIFNASPR.S
272 - 285	1469.7670	1468.7597	1468.7422	0.0175	0	K.SHGPTVSIFNASPR.S
368 - 376	1167.5050	1166.4977	1166.4702	0.0275	0	K.MDTGWDWEK.S
LIC12875						
9 - 25	1795.9570	1794.9497	1794.9489	0.0008	0	R.SKPHLNVGTIGHVDHGK.T
26 - 38	1305.7310	1304.7237	1304.7551	-0.0314	0	K.TTLTAAITTTLAK.A
46 - 59	1562.7300	1561.7227	1561.7260	-0.0033	0	K.AVAYDQIDNAPEEK.A
62 - 77	1790.8710	1789.8637	1789.8595	0.0043	0	R.GITIATSHQEYETANR.H
120 - 126	851.5070	850.4997	850.5025	-0.0027	0	K.EHILLAR.Q
127 - 139	1475.7640	1474.7567	1474.8548	-0.0981	0	R.QVGVPYVIVFINK.A
149 - 160	1500.6170	1499.6097	1499.6306	-0.0209	0	R.AEMIEMVEMDVR.E 3 Oxidation (M)
166 - 182	1775.8990	1774.8917	1774.8890	0.0027	0	K.YSFPGDTTPIVHGSAVK.A
183 - 198	1688.8320	1687.8247	1687.8338	-0.0091	0	K.ALEGDESEIGMPAILK.L Oxidation (M)
199 - 211	1490.7070	1489.6997	1489.7487	-0.0489	0	K.LMEALDTFVPNPK.R Oxidation (M)
246 - 260	1683.9250	1682.9177	1682.9203	-0.0026	0	K.VNDEVEIIGIRPTTK.T
261 - 270	1152.6080	1151.6007	1151.6009	-0.0002	0	K.TVVTGIEMFR.K
261 - 270	1168.6130	1167.6057	1167.5958	0.0099	0	K.TVVTGIEMFR.K Oxidation (M)
272 - 287	1668.8820	1667.8747	1667.8842	-0.0095	0	K.LLDQAEAGDNIGALLR.G
291 - 296	803.2630	802.2557	802.4184	-0.1627	1	K.KEEIER.G
312 - 321	1140.6180	1139.6107	1139.6227	-0.0119	0	K.FAAEVYVLTK.D
LIC12898						
191 - 200	1307.5960	1306.5887	1306.6517	-0.0630	0	R.YTLQQEEIQR.L
363 - 373	1216.6150	1215.6077	1215.6135	-0.0058	0	K.LYPDGIPQDAK.Y
575 - 585	1179.5570	1178.5497	1178.6447	-0.0950	0	K.IGGFSILPGYR.H
718 - 729	1383.5990	1382.5917	1382.7193	-0.1276	1	R.DGYSRGVELFLK.A
751 - 766	1993.9460	1992.9387	1992.8998	0.0390	1	K.RNNHQPQLTDDEENQR.T
752 - 766	1837.9170	1836.9097	1836.7987	0.1111	0	R.NNHQPQLTDDEENQR.T
LIC12946						
2 - 20	2284.4500	2283.4427	2283.1892	0.2535	1	M.RLPLSVCIITLNEEDNLER.C
132 - 137	841.4270	840.4197	840.5082	-0.0885	1	R.IRLFHR.S
196 - 209	1643.7790	1642.7717	1642.8507	-0.0790	1	K.KSGLFHAFLEGFYK.A
197 - 217	2646.3780	2645.3707	2645.2928	0.0779	1	K.SGLFHAFLEGFYKAFWMYFIR.F Oxidation (M)

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC12966						
155 - 166	1126.5310	1125.5237	1125.5488	-0.0251	0	K.VAGFAASMATGK.D Oxidation (M)
167 - 182	1669.8370	1668.8297	1668.8431	-0.0134	0	K.DVNTGNEPVSKPTGVR.M
183 - 194	1390.7060	1389.6987	1389.7611	-0.0624	0	R.MMLIPLDATLIK.V 2 Oxidation (M)
240 - 247	869.4670	868.4597	868.5494	-0.0897	1	K.GRLSPIVK.T
253 - 263	1336.6400	1335.6327	1335.6558	-0.0231	1	K.VFVKDEDEEVK.E
264 - 281	2067.9870	2066.9797	2067.0048	-0.0251	0	K.ELLQEGYEEIVGETPSFK.K
303 - 317	1726.7790	1725.7717	1725.7886	-0.0169	0	K.ANLATYYFSTGDFEK.S
342 - 355	1536.7360	1535.7287	1535.7580	-0.0292	1	K.RVEATFAVDESNAK.-
LIC12980						
1 - 8	1068.6020	1067.5947	1067.4813	0.1134	1	-.MKECLMPK.K 2 Oxidation (M)
9 - 17	1020.7540	1019.7467	1019.6127	0.1340	1	K.KYLIGIGTR.T
10 - 17	892.5650	891.5577	891.5178	0.0400	0	K.YLIGIGTR.T
37 - 44	936.5570	935.5497	935.5116	0.0381	0	K.FFGEVLPK.L
51 - 57	903.5010	902.4937	902.4901	0.0036	0	K.FIYAVYK.D
91 - 98	966.6000	965.5927	965.5433	0.0494	0	K.YLELTSLK.G
LIC13050						
72 - 91	2283.8920	2282.8847	2283.0066	-0.1219	0	K.SSFEISAQDDSSTVDYIEYK.I
100 - 108	1035.5500	1034.5427	1034.6012	-0.0585	0	K.YTSPITILK.E
130 - 143	1425.7470	1424.7397	1424.8238	-0.0841	0	K.ALVVVVDNTAPTVK.I
144 - 161	2028.9090	2027.9017	2028.0203	-0.1186	0	K.IVPSEILYNLDGYNFGSK.N
162 - 177	1651.8040	1650.7967	1650.8828	-0.0861	0	K.NVTYTISAIDALSGVK.E
190 - 200	1334.6510	1333.6437	1333.6877	-0.0440	1	R.SYDNQPIKLEK.A
278 - 301	2645.1290	2644.1217	2644.2656	-0.1439	0	K.NSDFVPYAEPITIDAQGEHTIEAK.A
315 - 329	1643.8210	1642.8137	1642.8678	-0.0541	0	K.VSFAVDVNPPTTQIR.K
315 - 330	1771.9290	1770.9217	1770.9628	-0.0411	1	K.VSFAVDVNPPTTQIRK.V
LIC13123						
32 - 38	926.4830	925.4757	925.4657	0.0100	0	R.AYFEQIR.K
62 - 72	1235.8190	1234.8117	1234.7873	0.0244	0	K.LAVRPLINALR.G
80 - 88	1100.5640	1099.5567	1099.5662	-0.0095	0	K.SLENHPYLK.F
114 - 129	1952.9430	1951.9357	1951.9527	-0.0170	1	K.LEPTIQEKDEPYFTSR.E
122 - 129	1014.4590	1013.4517	1013.4454	0.0063	0	K.DEPYFTSR.E
130 - 143	1596.7870	1595.7797	1595.7865	-0.0068	0	R.EDYTMVIAAGEILR.T Oxidation (M)
153 - 170	2107.0260	2106.0187	2106.0381	-0.0194	0	K.ESEEVLVNALGHTNYYIR.A
183 - 195	1507.7670	1506.7597	1506.8293	-0.0696	1	R.KETVNFLVSTLEK.E
184 - 195	1379.7450	1378.7377	1378.7344	0.0033	0	K.ETVNFLVSTLEK.E
196 - 202	895.4630	894.4557	894.4447	0.0111	1	K.EKNEFTK.A
203 - 214	1286.7190	1285.7117	1285.7428	-0.0310	0	K.AAILNAIVNIMK.V Oxidation (M)
219 - 228	1279.5500	1278.5427	1278.5624	-0.0197	0	K.SFYSLCDMLK.S Oxidation (M)
249 - 255	869.4570	868.4497	868.4443	0.0054	0	K.AAEFYLR.Q
273 - 281	949.5050	948.4977	948.5280	-0.0303	0	K.DLASVLGFK.L

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC13166						
49 - 65	1959.0010	1957.9937	1957.9116	0.0821	1	K.GELVPEDDDKNLTEEQK.R
70 - 79	1215.6640	1214.6567	1214.6295	0.0272	0	K.AIQEQEALWK.N
89 - 98	1243.6780	1242.6707	1242.6357	0.0351	0	K.NFQELHQLSK.A
107 - 121	1620.9230	1619.9157	1619.8882	0.0275	0	R.LALSNYQSGVNTILK.M
124 - 130	908.4600	907.4527	907.4399	0.0128	0	R.EAIEQYR.K
143 - 147	810.3420	809.3347	809.3860	-0.0513	0	K.WYWQK.V
167 - 175	1112.5720	1111.5647	1111.5662	-0.0015	0	K.QQALNYFTK.A
176 - 189	1647.9510	1646.9437	1646.8740	0.0697	1	K.AINHLDEIKNPDLR.E
197 - 203	867.4470	866.4397	866.4498	-0.0100	0	R.LLSDTYR.S
271 - 276	751.4320	750.4247	750.4500	-0.0253	0	K.NVHLLR.A
291 - 306	1832.1300	1831.1227	1831.0315	0.0912	1	K.HIVNLVNKDEVISVRP.-
LIC13316						
225 - 241	1691.8720	1690.8647	1690.8625	0.0022	0	K.VSGLEVTLSETDVASGK.K
242 - 254	1453.7690	1452.7617	1452.7613	0.0004	1	K.KYLSSFPGVNVDK.I
243 - 254	1325.6890	1324.6817	1324.6663	0.0154	0	K.YLSSFPGVNVDK.I
264 - 275	1311.6800	1310.6727	1310.6467	0.0261	0	R.GNTFLVSTSTER.E
281 - 290	1022.5720	1021.5647	1021.5192	0.0455	0	K.LFASASSSPR.L
296 - 309	1722.8410	1721.8337	1721.8658	-0.0321	1	R.KQEVTLEQIFMNQV.- Oxidation (M)
LIC13451						
78 - 92	1736.8400	1735.8327	1735.8377	-0.0050	1	R.DNFIDDRIIETSGNK.D
194 - 210	1890.8700	1889.8627	1889.9483	-0.0855	1	R.IGKSEALGDRPNDLYDK.R
197 - 211	1748.8100	1747.8027	1747.8489	-0.0462	1	K.SEALGDRPNDLYDKR.D
282 - 291	1170.8000	1169.7927	1169.6768	0.1159	1	R.LQGLIEVRDK.V
411 - 426	1775.8600	1774.8527	1774.8672	-0.0145	0	R.SGVVAYMNHDNQLALK.A Oxidation (M)
427 - 441	1710.8600	1709.8527	1709.8849	-0.0322	1	K.ATVADDHPNKNFILR.H
514 - 530	1645.8100	1644.8027	1644.7492	0.0535	1	R.GKDVGGTGDYNSPGGHK.D
531 - 543	1373.8400	1372.8327	1372.7245	0.1082	1	K.DGRNALMVASALR.N
LIC20114						
274 - 281	989.2910	988.2837	988.4614	-0.1777	0	R.SHLNDFEK.N
282 - 290	1165.5470	1164.5397	1164.5775	-0.0377	1	K.NRLETEFEK.L
284 - 298	1828.2560	1827.2487	1826.9778	0.2710	1	R.LETEFEKLPIENIPR.D
291 - 298	951.4150	950.4077	950.5549	-0.1472	0	K.LPIENIPR.D
308 - 316	1149.5530	1148.5457	1148.5826	-0.0368	0	R.QELLTDFQR.L
327 - 338	1376.6930	1375.6857	1375.6540	0.0317	0	K.EIEGVIVDMDEK.A
339 - 347	1096.4810	1095.4737	1095.5634	-0.0897	0	K.AMYIQTLEK.E

Table 2 Contd….

Start - End	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Sequence
LIC20125						
154 - 164	1348.7270	1347.7197	1347.6531	0.0666	0	R.IELENHQNHSK.K
165 - 176	1336.7220	1335.7147	1335.7034	0.0113	1	K.KINDADYLSVAK.G
180 - 190	1278.7640	1277.7567	1277.6867	0.0700	0	K.TIYITPSDLQK.L
191 - 212	2476.1910	2475.1837	2475.2505	-0.0668	0	K.LNVPYLHNHSEIENSLVGAQNK.M
213 - 226	1710.8980	1709.8907	1709.8698	0.0209	0	K.MTPEQFQIIYELAK.K
213 - 226	1726.9000	1725.8927	1725.8647	0.0280	0	K.MTPEQFQIIYELAK.K Oxidation (M)
LIC20185						
136 - 153	2246.8360	2245.8287	2245.8867	-0.0580	0	K.FYTSVYGDMTFTCHCEGR.I Oxidation (M)
154 - 164	1348.6900	1347.6827	1347.6531	0.0296	0	R.IELENHQNHSK.K
165 - 176	1336.7370	1335.7297	1335.7034	0.0263	1	K.KINDADYLSVAK.G
180 - 190	1278.7290	1277.7217	1277.6867	0.0350	0	K.TIYITPSDLQK.L
213 - 226	1726.8560	1725.8487	1725.8647	-0.0160	0	K.MTPEQFQIIYELAK.K Oxidation (M)
LIC20227						
77 - 94	1963.0840	1962.0767	1962.0608	0.0160	0	R.DLIVLHPNVSGLNEMLAK.F
77 - 94	1979.0230	1978.0157	1978.0557	-0.0400	0	R.DLIVLHPNVSGLNEMLAK.F Oxidation (M)
95 - 107	1674.9590	1673.9517	1673.7797	0.1720	1	K.FDKVHYHTDEEVR.Y
108 - 121	1506.7440	1505.7367	1505.7554	-0.0186	0	R.YIVDGSGVFGFAFK.D
108 - 124	1878.8860	1877.8787	1877.9199	-0.0411	1	R.YIVDGSGVFGFAFKDEK.F
125 - 131	905.5390	904.5317	9 04.5170	0.0147	0	K.FLVHVYK.D
125 - 139	1834.9690	1833.9617	1833.9777	-0.0160	1	K.FLVHVYKDDFISVPR.N
132 - 139	948.5390	947.5317	947.4712	0.0605	0	K.DDFISVPR.N
LIC20254						
5 - 20	1796.0880	1795.0807	1794.9727	0.1080	0	K.TILVIEDDPDIGNLIR.K
21 - 41	2252.2580	2251.2507	2251.0968	0.1540	1	R.KSLDSAHYSTTLQTSGEEGLK.F
22 - 41	2124.2530	2123.2457	2123.1018	0.1439	0	K.SLDSAHYSTTLQTSGEEGLK.F
45 - 67	2592.5720	2591.5647	2591.3723	0.1924	0	K.ANHPDMVILDLSLPDIDGIEVCR.T
71 - 84	1645.8990	1644.8917	1644.8583	0.0334	1	R.RNDENTPIFIVTAR.N
72 - 84	1489.7600	1488.7527	1488.7572	-0.0045	0	R.NDENTPIFIVTAR.N
113 - 120	1039.3700	1038.3627	1038.5610	-0.1983	1	K.TRVDVFFR.R
126 - 140	1481.8390	1480.8317	1480.8361	-0.0044	0	K.AGIKPNVGASGEIIR.G
156 - 163	930.2240	929.2167	929.4230	-0.2063	0	K.DNIVNISR.K
165 - 178	1535.7940	1534.7867	1534.7701	0.0166	0	K.EFDILQLMAASPGK.V Oxidation (M)
215 - 231	2020.1840	2019.1767	2018.9850	0.1918	0	K.NSAQPEWIETIWGIGYR.F

Table 3. Supporting Information. Conservation of the Identified Proteins Among *L. Borgpetersenii*[a] and the non-Pathogenic *L. Biflexa*[b] Sequenced Genomes. In Grey are Proteins Absent in one or Other Genome Sequences

Gene Locus	*L. Borgpetersenii*	*L. Biflexa*
LIC10002	x	x
LIC10011	x	x
LIC10074	x	x
LIC10158	x	x
LIC10176		
LIC10191	x	
LIC10272	x	
LIC10314	x	x
LIC10361	x	x
LIC10403	x	x
LIC10411	x	x
LIC10419		x
LIC10483	x	x
LIC10524	x	x
LIC10591	x	x
LIC10600	x	x
LIC10601	x	x
LIC10619		
LIC10629	x	
LIC10664	x	x
LIC10672	x	
LIC10733	x	
LIC10752	x	x
LIC10767	x	x
LIC10771	x	x
LIC10788	x	x
LIC10838		
LIC10851	x	x
LIC10973	x	x
LIC11003	x	
LIC11128	x	
LIC11194	x	x
LIC11196		
LIC11205	x	x
LIC11219	x	x
LIC11220	x	x
LIC11228	x	x
LIC11231	x	x
LIC11241	x	x
LIC11243	x	x
LIC11258	x	x

Table 3 Contd….

Gene Locus	*L. Borgpetersenii*	*L. Biflexa*
LIC11261	x	x
LIC11310	x	x
LIC11335	x	x
LIC11336	x	
LIC11352	x	
LIC11377	x	x
LIC11416	x	x
LIC11417	x	
LIC11456	x	x
LIC11460	x	x
LIC11511	x	x
LIC11531	x	x
LIC11532	x	x
LIC11550	x	x
LIC11569	x	x
LIC11643	x	x
LIC11652	x	x
LIC11657	x	x
LIC11695	x	x
LIC11731	x	
LIC11782	x	x
LIC11821	x	x
LIC11848	x	x
LIC11885	x	x
LIC11890	x	x
LIC11934	x	
LIC11951	x	x
LIC11985	x	x
LIC12002	x	x
LIC12003	x	x
LIC12015	x	x
LIC12040		
LIC12068	x	
LIC12082	x	x
LIC12114	x	x
LIC12211	x	
LIC12233	x	x
LIC12246	x	x
LIC12326	x	x
LIC12407	x	x
LIC12454	x	
LIC12459	x	x

Table 3 Contd….

Gene Locus	*L. Borgpetersenii*	*L. Biflexa*
LIC12513	x	
LIC12515	x	x
LIC12573	x	x
LIC12621	x	x
LIC12633		
LIC12634		
LIC12667		
LIC12706	x	x
LIC12765	x	x
LIC12795	x	x
LIC12875	x	x
LIC12898	x	x
LIC12946	x	x
LIC12966	x	
LIC12980	x	x
LIC13050	x	x
LIC13123	x	x
LIC13166	x	x
LIC13316	x	x
LIC13451	x	x
LIC20114	x	x
LIC20125	x	
LIC20185	x	
LIC20227	x	
LIC20254	x	x