Table S1. The distribution of samples in each gel

Gel	Cy3	Cy5	Cy2
Gel1	**DFC1**	**FFC1**	**Pooled sample**
Gel2	**FFC2**	**DFC2**	**Pooled sample**
Gel3	**DFC3**	**FFC3**	**Pooled sample**
Gel4	**FFC4**	**DFC4**	**Pooled sample**
Gel5	**DFC5**	**FFC5**	**Pooled sample**

DFC, desert fed camels; FFC, farm fed camels; Cy3, cyanine 3 (green laser channel) fluorophore-labeled; Cy5, cyanine 5 (red laser channel) fluorophore-labeled; Cy2, cyanine 2 (blue laser channel) fluorophore-labeled

Table S2. Mass spectrometry list of significant differentially abundant proteins

Sl no:	Spot No[a]	Accession No[b]	Protein Name	MASCOT ID	Pi[c]	MW[d]	Cov%	Score[e]
1	**217**	Q9TUM0	Lactotransferrin	TRFL_CAMDR	8.66	79158	10	52
2	**363**	Q9TUM0	Lactotransferrin	TRFL_CAMDR	8.66	79958	21	97
3	**319**	Q3SYS9	KIF-binding protein	KBP_BOVIN	5.36	72565	14	52
4	**540**	O97943	Alpha-S1-casein	CASA1_CAMDR	4.96	26902	43	98
5	**502**	P84336	Actin, cytoplasmic 1	ACTB_CAMDR	5.30	42174	29	67
6	**664**	O97944	Alpha-S2-casein	CASA2_CAMDR	6.00	23121	44	53
7	**563**	Q2TBX6	Proteasome subunit beta type-1	PSB1_BOVIN	8.26	26457	37	55
8	**272**	Q9TUM0	Lactotransferrin	TRFL_CAMDR	8.66	79158	44	171
9	**183**	Q32LK9	Synaptonemal complex central element protein 1	SYCE1_BOVIN	5.52	36981	25	53
10	**652**	O97944	Alpha-S2-casein	CASA2_CAMDR	6.00	23121	33	62
11	**232**	Q9TUM0	Lactotransferrin	TRFL_CAMDR	8.66	79158	29	114
12	**208**	Q9TUM0	Lactotransferrin	TRFL_CAMDR	8.66	79158	24	79

13	**549**	A5PJZ5	Nuclear pore complex protein Nup93	NUP93_BOVIN	5.50	93913	18	49
14	**693**	A4FUZ0	Keratin, type II cuticular Hb3	KRT83_BOVIN	5.43	55665	34	56
15	**282**	P67827	Casein kinase I isoform alpha	KC1A_BOVIN	9.50	37771	33	54
16	**325**	Q3MHX5	Succinate--CoA ligase [GDP-forming] subunit beta, mitochondrial	UCB2_BOVIN	7.51	47004	17	46
17	**312**	O97943	Alpha-S1-casein	CASA1_CAMDR	4.96	26902	27	57
18	**497**	Q6T752	Toll-like receptor 2	TLR2_HORSE	6.40	91190	29	48
19	**306**	P30546	Histamine H1 receptor	HRH1_BOVIN	9.15	56662	19	54
20	**439**	Q3SX23	Lon protease homolog 2, peroxisomal	LONP2_BOVIN	6.91	94764	19	56
21	**200**	Q3SYU2	Elongation factor 2	EF2_BOVIN	6.41	96276	30	80
22	**485**	Q9TUM0	Lactotransferrin	TRFL_CAMDR	8.66	79158	28	70
23	**561**	P80220	TSC22 domain family protein 3	T22D3_PIG	4.65	8707	41	47
24	**316**	P79385	Lactadherin	MFGM_PIG	6.15	46722	27	59
25	**467**	P04394	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial	NDUV2_BOVIN	8.21	27575	44	53
26	**474**	O97943	Alpha-S1-casein	CASA1_CAMDR	4.96	26902	24	64
27	**141**	Q2NKS2	Cytochrome c oxidase assembly protein COX16 homolog, mitochondrial	COX16_BOVIN	9.73	12510	28	52
28	**553**	O97943	Alpha-S1-casein	CASA1_CAMDR	4.96	26902	30	121
29	**135**	P52900	Pyruvate dehydrogenase E1 component subunit alpha, mitochondrial	ODPA_SMIMA	6.51	41335	24	64
30	**421**	P00443	Superoxide dismutase [Cu-Zn]	SODC_HORSE	6.03	16232	20	51
31	**414**	P84336	Actin, cytoplasmic 1	ACTB_CAMDR	5.30	42174	42	83

32	**746**	Q32LK9	Synaptonemal complex central element protein 1	SYCE1_BOVIN	5.52	36981	27	60
33	**585**	A3FFS8	Erythropoietin	EPO_BOSMU	8.58	21419	36	50
34	**216**	A4FUZ6	Hydroxysteroid dehydrogenase-like protein 2	HSDL2_BOVIN	8.46	45519	27	49
35	**548**	Q3MHH3	S100P-binding protein	S1PBP_BOVIN	5.25	47375	18	46
36	**311**	O97943	Alpha-S1-casein	CASA1_CAMDR	4.96	26902	30	64
37	**388**	O97943	Alpha-S1-casein	CASA1_CAMDR	4.96	26902	37	146
38	**539**	P26285	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2	F262_BOVIN	8.50	61286	24	49
39	**360**	Q3SZ90	60S ribosomal protein L13a	RL13A_BOVIN	11.59	24391	26	49
40	55	Q1JQ98	AP-1 complex subunit sigma-1A	AP1S1_BOVIN	5.60	18818	29	64

[a]Protein accession number for SWISSPROT Database, [b]Theoretical isoelectric point, [c]Theoretical relative mass, [d] MASCOT coverage, [e] MASCOT score