

**Table S1. Summary information of mass spectrometry analysis.**

Raw file	Experiment	Enzyme	Enzyme mode
35082-01-_1-B,4_01_6740	1	Trypsin/P	Specific
35082-02-_1-C,1_01_6745	2	Trypsin/P	Specific
35082-03-_1-B,3_01_6739	3	Trypsin/P	Specific
35082-04-_1-C,5_01_6749	4	Trypsin/P	Specific
35082-06-_1-D,4_01_6756	6	Trypsin/P	Specific
35082-07-_1-C,8_01_6752	7	Trypsin/P	Specific
35082-08-_1-C,2_01_6746	8	Trypsin/P	Specific
35082-13-_1-C,7_01_6751	13	Trypsin/P	Specific
35082-14-_1-D,3_01_6755	14	Trypsin/P	Specific
35082-15-_1-C,6_01_6750	15	Trypsin/P	Specific
35082-16-_1-D,2_01_6754	16	Trypsin/P	Specific
35082-21-_1-B,5_01_6741	21	Trypsin/P	Specific
35082-22-_1-B,7_01_6743	22	Trypsin/P	Specific
35082-24-_1-B,2_01_6738	24	Trypsin/P	Specific
35082-30-_1-D,1_01_6773	30	Trypsin/P	Specific
35082-31-_1-B,1_01_6774	31	Trypsin/P	Specific
35082-32-_1-C,4_01_6775	32	Trypsin/P	Specific
35082-42-_1-C,3_01_6747	42	Trypsin/P	Specific
35082-43-_1-B,8_01_6744	43	Trypsin/P	Specific
35087-44-_1-B,6_01_6742	44	Trypsin/P	Specific
Total			

Use enzyme first search	Variable modifications
False	Oxidation (M);Acetyl (Protein N-term)
False	Oxidation (M);Acetyl (Protein N-term)
False	Oxidation (M);Acetyl (Protein N-term)
False	Oxidation (M);Acetyl (Protein N-term)
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False	Oxidation (M);Acetyl (Protein N-term)
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False	Oxidation (M);Acetyl (Protein N-term)
False	Oxidation (M);Acetyl (Protein N-term)
False	Oxidation (M);Acetyl (Protein N-term)
False	Oxidation (M);Acetyl (Protein N-term)
False	Oxidation (M);Acetyl (Protein N-term)
False	Oxidation (M);Acetyl (Protein N-term)



MS	MS/MS	MS3	MS Submi	Submitte	Submittes	submitted	MS Identi
6374	59427	0	68245	50609	0	17636	11875
6135	59308	0	69547	48965	0	20582	11151
6357	59666	0	68714	50618	0	18096	12017
6440	58174	0	67990	48246	0	19744	6367
5907	58847	0	68576	49118	0	19458	7149
5906	58719	0	68848	48588	0	20260	9758
6094	57852	0	68402	47302	0	21100	4563
6136	57767	0	68241	47293	0	20948	5437
5934	57873	0	68320	47420	0	20900	3451
6309	58657	0	68087	49227	0	18860	10220
6236	57390	0	68139	46485	0	21654	5174
6354	58282	0	67952	48612	0	19340	5273
6302	59616	0	68292	50936	0	17356	10845
6614	59095	0	68060	50128	0	17932	12744
6651	54668	0	66806	42530	0	24276	6802
7034	54952	0	68143	41761	0	26382	3923
6959	56271	0	69508	43034	0	26474	4014
6184	57317	0	67964	46534	0	21430	3574
6343	57558	0	68470	46646	0	21824	4065
6331	58823	0	68753	48893	0	19860	12502
126600	1160262	0	1367057	952945	0	414112	150904

Identified	Identified	Identified	Identified	Identified	Identified	Identified (sequences)	Identified
11760	0	115	17	23	0	0.65	6040
11032	0	119	16	23	0	0.58	5352
11868	0	149	17	23	0	0.82	5812
6300	0	67	9.4	13	0	0.34	3281
7086	0	63	10	14	0	0.32	3864
9659	0	99	14	20	0	0.49	4877
4525	0	38	6.7	9.6	0	0.18	2338
5367	0	70	8	11	0	0.33	2757
3404	0	47	5.1	7.2	0	0.22	2177
10169	0	51	15	21	0	0.27	4592
5103	0	71	7.6	11	0	0.33	2569
5210	0	63	7.8	11	0	0.33	2888
10753	0	92	16	21	0	0.53	5944
12648	0	96	19	25	0	0.54	5731
6487	0	315	10	15	0	1.3	1658
3884	0	39	5.8	9.3	0	0.15	1314
3808	0	206	5.8	8.8	0	0.78	1470
3536	0	38	5.3	7.6	0	0.18	2017
4022	0	43	5.9	8.6	0	0.2	1977
12460	0	42	18	25	0	0.21	4574
149081	0	1823	11	16	0	0.44	11332

Peaks	ks Sequer	Sequence	eatedly	Satedly	Secope	Patte	atterns S	erns Sequ
5767233	37647	0.65	8754	23	520991	28346	23993	
6514550	37035	0.57	8821	24	619726	26645	21591	
5589548	36896	0.66	8958	24	509025	27557	23211	
6595768	37266	0.56	8273	22	608217	27223	22484	
6687791	38241	0.57	8271	22	632728	27912	23648	
6826598	36568	0.54	8314	23	650451	26442	21895	
6363727	36971	0.58	8169	22	589776	26247	21962	
6657874	36815	0.55	8004	22	613618	26442	22070	
6750336	39059	0.58	7738	20	652979	28715	24279	
6775699	36001	0.53	8636	24	609725	25781	21393	
6818397	36172	0.53	8010	22	658357	25640	20724	
6010665	37510	0.62	8174	22	551302	27351	23141	
6099677	38921	0.64	8698	22	550189	29294	25105	
5222652	35320	0.68	9059	26	465774	25808	21283	
8164425	25260	0.31	8472	34	776057	15293	10208	
8695108	26870	0.31	8447	31	821986	16747	10828	
8766433	29950	0.34	8903	30	840688	19185	13358	
6677056	38022	0.57	7854	21	634830	27276	22301	
6519029	35808	0.55	8204	23	587237	24951	20705	
6036947	32705	0.54	9028	28	523996	22412	18085	
1,34E+08					12417652	505267	412264	

terns	Seqns	Sequeis	Repeat	Repeated	decalibrate	Mass Dev	ward Devia	Mass Dev
5.4	6.2	9226	33	+	0.95649	1.389	0.63471	
4.3	4.7	9100	34	+	0.8986	13.018	0.6016	
5.4	6.2	9249	34	+	0.971	14.172	0.64154	
4.5	5	8602	32	+	10.346	14.661	0.68974	
4.4	5	8947	32	+	10.173	14.938	0.68387	
4.1	4.5	8722	33	+	0.95563	13.874	0.6348	
4.5	5	8487	32	+	10.456	14.723	0.68801	
4.3	4.8	8493	32	+	10.033	14.212	0.67024	
4.4	4.9	8305	29	+	11.869	16.508	0.7918	
4.2	4.7	8965	35	+	0.93146	13.333	0.61462	
3.9	4.3	8249	32	+	10.763	15.202	0.72465	
5	5.6	8675	32	+	11.234	16.098	0.73489	
5.3	6.1	9364	32	+	0.98109	14.227	0.65646	
5.5	6.4	9277	36	+	0.94126	13.756	0.61604	
2	1.8	6998	46	+	0.86735	12.618	0.51344	
2	1.8	7167	43	+	10.069	13.839	0.5824	
2.3	2.1	7762	40	+	10.514	14.968	0.62379	
4.3	4.7	8252	30	+	10.988	15.403	0.74725	
4.2	4.7	8229	33	+	10.516	14.861	0.69761	
4.3	4.7	8696	39	+	0.84365	12.137	0.55834	
4.1	4.5	170765	34		0.98138	14.146	0.64752	

<b>Mass Standard Deviation [mDa]</b>
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0.91204

0.8675

0.92398

0.98158

0.99484

0.91479

0.96243

0.94172

10.818

0.87091

10.214

10.293

0.94177

0.88621

0.73822

0.79151

0.88099

10.546

0.97454

0.79394

0.9253

**Table S2. List of proteins identified in liver tissue of beef cattle sup**

Protein Ids
sp A2I7N1 SPA35_BOVIN;CON__A2I7N1
tr F1MVK1 F1MVK1_BOVIN;CON__ENSEMBL:ENSBTAP00000007350
CON__ENSEMBL:ENSBTAP00000014147;tr A0A3Q1M1Z4 A0A3Q1M1Z4_BOVIN
tr A0A3Q1MAK6 A0A3Q1MAK6_BOVIN;CON__ENSEMBL:ENSBTAP00000018574
CON__ENSEMBL:ENSBTAP00000024462
CON__ENSEMBL:ENSBTAP00000024466
tr A0A3Q1NJB1 A0A3Q1NJB1_BOVIN;CON__ENSEMBL:ENSBTAP00000031900;t
tr G3N0S9 G3N0S9_BOVIN;CON__ENSEMBL:ENSBTAP00000034412
CON__ENSEMBL:ENSBTAP00000038329
CON__P00761
sp P00978 AMBP_BOVIN;CON__P00978;tr F1MMK9 F1MMK9_BOVIN;tr A0A3
sp P01045 KNG2_BOVIN;CON__P01045-1;sp P01044 KNG1_BOVIN;CON__P010
sp P01966 HBA_BOVIN;CON__P01966;tr A0A452DIQ5 A0A452DIQ5_BOVIN;tr
CON__P02070;sp P02070 HBB_BOVIN;tr A0A3Q1MGU4 A0A3Q1MGU4_BOVIN
CON__P48668;CON__P04259;CON__P02538;tr M0QVY0 M0QVY0_BOVIN;tr F1M
CON__P02584;sp P02584 PROF1_BOVIN;tr E1BHJ0 E1BHJ0_BOVIN
sp P02672 FIBA_BOVIN;CON__P02672;tr F6QND5 F6QND5_BOVIN;tr A0A3Q1
tr F1MAV0 F1MAV0_BOVIN;CON__P02676;tr A0A3Q1MG04 A0A3Q1MG04_BOV
tr A0A140T897 A0A140T897_BOVIN;sp P02769 ALBU_BOVIN;CON__P02769;t
CON__P04264
tr E1B726 E1B726_BOVIN;sp P06868 PLMN_BOVIN;CON__P06868;tr A7E350
sp P12763 FETUA_BOVIN;CON__P12763
CON__P13645;CON__P02535-1;CON__Q148H6;tr F1MC11 F1MC11_BOVIN;CON
CON__P15497;sp P15497 APOA1_BOVIN;tr A0A3Q1MJ4 A0A3Q1MJ4_BOVIN
tr A0A3Q1LXP4 A0A3Q1LXP4_BOVIN;tr A0A140T843 A0A140T843_BOVIN;sp
sp P21752 TYB10_BOVIN;CON__P21752
sp P28800 A2AP_BOVIN;CON__P28800
sp P34955 A1AT_BOVIN;CON__P34955
CON__P35527
tr E1BMJ0 E1BMJ0_BOVIN;sp P50448 F12AI_BOVIN;CON__P50448
sp P62894 CYC_BOVIN;CON__P62894
sp P67983 MT1A_BOVIN;CON__P67983
sp P81644 APOA2_BOVIN;CON__P81644
tr A0A3Q1MGI2 A0A3Q1MGI2_BOVIN;tr A0A3Q1LPF0 A0A3Q1LPF0_BOVIN;sp
sp Q05443 LUM_BOVIN;CON__Q05443
tr F1MZ96 F1MZ96_BOVIN;tr F1MH40 F1MH40_BOVIN;CON__Q05B55
tr A0A3Q1LW96 A0A3Q1LW96_BOVIN;sp Q0VCM5 ITI1_BOVIN;CON__Q0VCM
CON__Q1RMK2;tr G5E513 G5E513_BOVIN;tr A0A3Q1M032 A0A3Q1M032_BOV
CON__Q1RMN8;tr F1MLW7 F1MLW7_BOVIN;tr F1N160 F1N160_BOVIN
tr A0A3Q1LS74 A0A3Q1LS74_BOVIN;sp Q28085 CFAH_BOVIN;CON__Q28085;t
CON__Q2KIF2;tr F6RMV5 F6RMV5_BOVIN
sp Q2KIS7 TETN_BOVIN;CON__Q2KIS7;tr A0A3Q1LZS5 A0A3Q1LZS5_BOVIN;tr
sp Q2KIT0 HP20_BOVIN;CON__Q2KIT0
CON__Q2KJF1;sp Q2KJF1 A1BG_BOVIN;tr A0A3Q1MJT2 A0A3Q1MJT2_BOVIN

sp|Q2UVX4|CO3\_BOVIN;CON\_\_Q2UVX4;tr|A0A3Q1M2B2|A0A3Q1M2B2\_BOVIN  
tr|A0A3Q1M2A8|A0A3Q1M2A8\_BOVIN;tr|A0A3Q1LGM4|A0A3Q1LGM4\_BOVIN;t  
tr|A0A3Q1LRP5|A0A3Q1LRP5\_BOVIN;CON\_\_Q3KUS7;sp|P81187|CFAB\_BOVIN  
tr|A0A3Q1MU98|A0A3Q1MU98\_BOVIN;sp|Q3MHN2|CO9\_BOVIN;CON\_\_Q3MHN  
tr|G3N1Y3|G3N1Y3\_BOVIN;sp|P02081|HBBF\_BOVIN;CON\_\_Q3SX09  
tr|F1MJH1|F1MJH1\_BOVIN;sp|Q3SX14|GELS\_BOVIN;tr|A0A3Q1MIW2|A0A3Q1MI  
tr|A0A3Q1LS55|A0A3Q1LS55\_BOVIN;tr|Q5GN72|Q5GN72\_BOVIN;sp|Q3SZR3|  
tr|F1MMD7|F1MMD7\_BOVIN;sp|Q3T052|ITI4\_BOVIN;CON\_\_Q3T052;tr|A0A3  
CON\_\_Q3ZBD7;sp|Q3ZBD7|G6PI\_BOVIN;tr|A0A3Q1MP70|A0A3Q1MP70\_BOVIN  
sp|Q95121|PEDF\_BOVIN;CON\_\_Q95121  
tr|A0A3Q1LK49|A0A3Q1LK49\_BOVIN;tr|A5D7R6|A5D7R6\_BOVIN;CON\_\_Q9TRI1  
CON\_\_REFSEQ:XP\_001252647;tr|A0A0A0MPA0|A0A0A0MPA0\_BOVIN  
REV\_\_sp|Q1RMR1|ANGL1\_BOVIN  
REV\_\_sp|Q2KHZ9|GCDH\_BOVIN;REV\_\_tr|A0A3Q1LJK2|A0A3Q1LJK2\_BOVIN  
REV\_\_sp|Q2TA16|DRC2\_BOVIN  
REV\_\_sp|Q3ZBE0|DQX1\_BOVIN  
REV\_\_tr|G3N2K4|G3N2K4\_BOVIN;REV\_\_tr|A0A3Q1LJT3|A0A3Q1LJT3\_BOVIN;RE  
REV\_\_tr|A0A3Q1M788|A0A3Q1M788\_BOVIN;REV\_\_tr|A0A3Q1LYU7|A0A3Q1LYL  
REV\_\_tr|A0A3Q1M4K1|A0A3Q1M4K1\_BOVIN;REV\_\_tr|A0A3Q1MDW8|A0A3Q1M  
REV\_\_tr|E1B9D3|E1B9D3\_BOVIN  
REV\_\_tr|E1BMC4|E1BMC4\_BOVIN  
REV\_\_tr|F1MEB1|F1MEB1\_BOVIN  
REV\_\_tr|F1MHT1|F1MHT1\_BOVIN  
REV\_\_tr|F1MM99|F1MM99\_BOVIN  
REV\_\_tr|F1MN61|F1MN61\_BOVIN;REV\_\_tr|A0A3Q1ML65|A0A3Q1ML65\_BOVIN;I  
sp|A0JN39|COPB\_BOVIN  
sp|A1A4J1|PFKAL\_BOVIN;tr|A0A3Q1NJ70|A0A3Q1NJ70\_BOVIN;tr|E1BCW3|E1  
sp|A1A4K3|DDB1\_BOVIN;tr|A0A452D|J09|A0A452D|J09\_BOVIN  
sp|A1A4L1|THEM4\_BOVIN;tr|E1BG28|E1BG28\_BOVIN  
sp|Q3ZBX9|H2AJ\_BOVIN;sp|A1A4R1|H2A2C\_BOVIN;tr|E1BH22|E1BH22\_BOVI  
sp|A2I7M9|SPA32\_BOVIN;sp|Q9TTE1|SPA31\_BOVIN;CON\_\_Q9TTE1;tr|A0A452  
tr|F1MVW5|F1MVW5\_BOVIN;sp|A2VDL8|SC23A\_BOVIN;sp|Q3SZN2|SC23B\_BOV  
sp|A2VDS1|SCLY\_BOVIN  
sp|A2VDZ9|VAPB\_BOVIN;tr|A0A3Q1LIG6|A0A3Q1LIG6\_BOVIN  
sp|A2VE13|MAL2\_BOVIN  
sp|A2VE15|FADS6\_BOVIN  
sp|A3KMV5|UBA1\_BOVIN;tr|A0A3Q1LKR8|A0A3Q1LKR8\_BOVIN  
tr|F1MHP6|F1MHP6\_BOVIN;sp|A3KN12|PUR8\_BOVIN  
sp|A4FUA8|CAZA1\_BOVIN;tr|A0A3Q1N894|A0A3Q1N894\_BOVIN;tr|A0A3Q1LF  
sp|A4FUZ6|HSDL2\_BOVIN;tr|F1MF48|F1MF48\_BOVIN;tr|A0A3Q1LZ21|A0A3Q1  
tr|A0A3Q1M338|A0A3Q1M338\_BOVIN;sp|A4FV08|GNPI1\_BOVIN;sp|Q17QL1|G  
sp|A4IF97|ML12B\_BOVIN;sp|Q5E9E2|MYL9\_BOVIN  
sp|A4IFA7|CBR4\_BOVIN  
tr|F1MWN1|F1MWN1\_BOVIN;sp|A5D785|XPO2\_BOVIN  
sp|A5D7A0|EFHD2\_BOVIN  
sp|A5D7D1|ACTN4\_BOVIN;tr|A0A452DIE5|A0A452DIE5\_BOVIN;tr|A0A3Q1MF  
tr|A0A3Q1LUT0|A0A3Q1LUT0\_BOVIN;sp|A5D7L5|S39AE\_BOVIN  
sp|A5D989|EF1D\_BOVIN;tr|A0A3Q1M9K4|A0A3Q1M9K4\_BOVIN;tr|A0A452DIM

tr|A0A140T876|A0A140T876\_BOVIN;sp|A5PJ65|RER1\_BOVIN  
sp|A5PJV3|HUTI\_BOVIN  
sp|A5PK39|TPP2\_BOVIN;tr|F1N0M0|F1N0M0\_BOVIN;tr|A0A3Q1M996|A0A3Q1M  
sp|A5PK45|GT251\_BOVIN;tr|A0A3Q1N2V9|A0A3Q1N2V9\_BOVIN  
sp|A5PK51|PNCB\_BOVIN;tr|F1N3B0|F1N3B0\_BOVIN;tr|A0A3Q1N5S3|A0A3Q1N  
sp|A5PK65|DOPD\_BOVIN;tr|A0A3Q1MAM8|A0A3Q1MAM8\_BOVIN  
tr|A0A3Q1N552|A0A3Q1N552\_BOVIN;tr|A0A3Q1LUM5|A0A3Q1LUM5\_BOVIN;tr  
sp|A6H768|GALK1\_BOVIN  
sp|A6H769|RS7\_BOVIN;tr|A0A3Q1M657|A0A3Q1M657\_BOVIN  
sp|A6H7B5|CSN3\_BOVIN;tr|A0A3Q1MRF3|A0A3Q1MRF3\_BOVIN  
sp|A6H7G2|DBNL\_BOVIN;tr|A0A452DIT4|A0A452DIT4\_BOVIN  
tr|A0A3Q1MD79|A0A3Q1MD79\_BOVIN;sp|A6QL88|SAC1\_BOVIN  
sp|A6QLG5|RS9\_BOVIN;tr|A0A3Q1MJ34|A0A3Q1MJ34\_BOVIN  
sp|A6QLP7|SSRA\_BOVIN;tr|A0A3Q1LYJ9|A0A3Q1LYJ9\_BOVIN;tr|A0A3Q1MZP8|  
tr|A0A3Q1MR39|A0A3Q1MR39\_BOVIN;sp|A6QLR4|FLOT2\_BOVIN;tr|A0A3Q1LKJ  
tr|F1MMI7|F1MMI7\_BOVIN;tr|A0A3Q1LSK3|A0A3Q1LSK3\_BOVIN;sp|A6QLT2|M  
sp|A6QLY4|ISOC1\_BOVIN  
sp|A6QP15|HOT\_BOVIN  
sp|A6QPY0|OST48\_BOVIN;tr|F1N632|F1N632\_BOVIN  
sp|A6QQ74|HYPDH\_BOVIN;tr|F1MZH9|F1MZH9\_BOVIN;tr|A0A3Q1LSL3|A0A3Q:  
tr|A0A3Q1LN79|A0A3Q1LN79\_BOVIN;sp|A6QQT9|ILVBL\_BOVIN;tr|G1K1S1|G1K  
tr|F1MSB7|F1MSB7\_BOVIN;sp|A7E3Q8|PLST\_BOVIN;sp|A6H742|PLSI\_BOVIN  
sp|A7E3W2|LG3BP\_BOVIN  
sp|A7MAZ5|H13\_BOVIN  
tr|A0A3Q1MI08|A0A3Q1MI08\_BOVIN;tr|A0A452DJH4|A0A452DJH4\_BOVIN;sp|A  
sp|A7MB45|ACSS3\_BOVIN  
tr|A0A3Q1LXR9|A0A3Q1LXR9\_BOVIN;sp|A7MB62|ARP2\_BOVIN;tr|A0A3Q1M2  
sp|A7MBE0|S22A1\_BOVIN  
sp|A7MBJ5|CAND1\_BOVIN  
sp|A7YW98|SYRC\_BOVIN  
tr|A0A3Q1N375|A0A3Q1N375\_BOVIN;sp|A7YWE4|AL4A1\_BOVIN;tr|A0A3Q1M  
tr|A0A3Q1LTF3|A0A3Q1LTF3\_BOVIN;sp|A7YWP4|HUTH\_BOVIN;tr|A0A3Q1M55  
sp|A7YY28|ABHEB\_BOVIN  
sp|A7YY49|SURF4\_BOVIN;tr|F1N6P2|F1N6P2\_BOVIN  
sp|A7YY55|HACD3\_BOVIN  
sp|A8E657|AASS\_BOVIN  
sp|A8YXY3|SEP15\_BOVIN  
sp|F1MVX2|LANC1\_BOVIN  
sp|O02659|MBL2\_BOVIN  
tr|A0A3Q1MQ68|A0A3Q1MQ68\_BOVIN;sp|O02675|DPYL2\_BOVIN;tr|A0A3Q1MF  
sp|O02691|HCD2\_BOVIN  
sp|O02741|ISG15\_BOVIN  
tr|F1MS40|F1MS40\_BOVIN;sp|O02751|CFDP2\_BOVIN;tr|A0JBZ9|A0JBZ9\_BOVIN  
sp|O18778|PAHX\_BOVIN;tr|G3MZ86|G3MZ86\_BOVIN  
sp|O18789|RS2\_BOVIN;tr|A0A3Q1MAT9|A0A3Q1MAT9\_BOVIN;tr|A0A452DIA7  
sp|O18879|GSTA2\_BOVIN  
tr|G3X7D6|G3X7D6\_BOVIN;sp|O18963|CP2E1\_BOVIN;tr|A0A3Q1M6C2|A0A3Q  
sp|O19094|OCTC\_BOVIN;tr|G5E5R3|G5E5R3\_BOVIN

sp|O46375|TTHY\_BOVIN;tr|A0A3Q1MRM2|A0A3Q1MRM2\_BOVIN  
sp|O46629|ECHB\_BOVIN;tr|A0A3Q1MH46|A0A3Q1MH46\_BOVIN  
sp|O62654|DESM\_BOVIN  
tr|A0A452DK56|A0A452DK56\_BOVIN;sp|O77512|GLYAL\_BOVIN  
sp|O77834|PRDX6\_BOVIN;tr|A0A3Q1LKU1|A0A3Q1LKU1\_BOVIN  
sp|O97680|THIO\_BOVIN  
sp|O97725|NDUAC\_BOVIN;tr|A0A3Q1M8N8|A0A3Q1M8N8\_BOVIN;tr|A0A452DI  
sp|O97764|QOR\_BOVIN  
sp|P00125|CY1\_BOVIN  
tr|A0A452DIC1|A0A452DIC1\_BOVIN;sp|P00126|QCR6\_BOVIN  
sp|P00129|QCR7\_BOVIN;tr|A0A3Q1LTJ5|A0A3Q1LTJ5\_BOVIN  
sp|P00171|CYB5\_BOVIN;tr|A0A452DIG0|A0A452DIG0\_BOVIN  
tr|F1N3J0|F1N3J0\_BOVIN;sp|P00257|ADX\_BOVIN  
tr|A0A140T872|A0A140T872\_BOVIN;sp|P00376|DYR\_BOVIN  
sp|P00423|COX41\_BOVIN;tr|A0A3Q1M380|A0A3Q1M380\_BOVIN  
sp|P00426|COX5A\_BOVIN  
sp|P00428|COX5B\_BOVIN;tr|A0A3Q1MBD7|A0A3Q1MBD7\_BOVIN;tr|G3N0G3|  
sp|P00429|CX6B1\_BOVIN;tr|A0A3Q1N4F8|A0A3Q1N4F8\_BOVIN;tr|A0A3Q1MB4  
sp|P00432|CATA\_BOVIN;tr|A0A3Q1LKF1|A0A3Q1LKF1\_BOVIN;tr|A0A3Q1MQP  
sp|P00435|GPX1\_BOVIN  
tr|F1MNQ4|F1MNQ4\_BOVIN;sp|P00442|SODC\_BOVIN  
sp|P00515|KAP2\_BOVIN  
sp|P00586|THTR\_BOVIN;tr|A0A452DJ91|A0A452DJ91\_BOVIN  
sp|P00727|AMPL\_BOVIN  
tr|F1MBC5|F1MBC5\_BOVIN;sp|P00741|FA9\_BOVIN  
sp|P00829|ATPB\_BOVIN;tr|A0A452DII8|A0A452DII8\_BOVIN  
sp|P00921|CAH2\_BOVIN;tr|F1N0H3|F1N0H3\_BOVIN;tr|A0A3Q1MM44|A0A3Q1  
sp|P01252|PTMA\_BOVIN;tr|Q2LDY9|Q2LDY9\_BOVIN  
sp|P01888|B2MG\_BOVIN;tr|A0A3Q1MU93|A0A3Q1MU93\_BOVIN  
sp|P02253|H12\_BOVIN;tr|A0A452DIF5|A0A452DIF5\_BOVIN;tr|A5PK20|A5PK20  
tr|A0A3Q1LU18|A0A3Q1LU18\_BOVIN;tr|G3MY00|G3MY00\_BOVIN;sp|P02313|  
sp|P02453|CO1A1\_BOVIN  
sp|P02510|CRYAB\_BOVIN;tr|A0A452DHT5|A0A452DHT5\_BOVIN;tr|A0A3Q1M  
tr|A0A452DJ95|A0A452DJ95\_BOVIN;sp|P02694|RET1\_BOVIN;tr|A0A3Q1LU75|  
sp|P02720|PPCT\_BOVIN;tr|A0A3Q1LK81|A0A3Q1LK81\_BOVIN  
sp|P02721|ATP5J\_BOVIN;tr|A0A452DJ42|A0A452DJ42\_BOVIN  
sp|P02722|ADT1\_BOVIN;tr|A0A3Q1ME66|A0A3Q1ME66\_BOVIN;tr|F1MDK8|F1  
sp|P04038|COX6C\_BOVIN;tr|A0A3Q1LXK7|A0A3Q1LXK7\_BOVIN;tr|A0A3Q1N0  
sp|P04272|ANXA2\_BOVIN  
sp|P04394|NDUV2\_BOVIN  
tr|A0A452DJE9|A0A452DJE9\_BOVIN;tr|A0A452DKD0|A0A452DKD0\_BOVIN;sp|  
sp|P05630|ATPD\_BOVIN  
sp|P05631|ATPG\_BOVIN  
sp|P05689|CATZ\_BOVIN;tr|A0A3Q1M2V6|A0A3Q1M2V6\_BOVIN  
sp|P07107|ACBP\_BOVIN;tr|A0A3Q1M8I0|A0A3Q1M8I0\_BOVIN  
tr|A0A3Q1LMX0|A0A3Q1LMX0\_BOVIN;sp|P07514|NB5R3\_BOVIN;tr|F1N7T1|F1  
sp|P07589|FINC\_BOVIN;tr|G5E5A8|G5E5A8\_BOVIN;tr|G5E5B0|G5E5B0\_BOVI  
sp|P07688|CATB\_BOVIN

sp|P07857|NLTP\_BOVIN  
sp|P08166|KAD2\_BOVIN;tr|A0A3Q1M447|A0A3Q1M447\_BOVIN  
sp|P08760|KAD3\_BOVIN  
sp|P09867|ROA1\_BOVIN;tr|F1MTY3|F1MTY3\_BOVIN;tr|A0A3Q1LR30|A0A3Q1  
tr|A0A3Q1N0B0|A0A3Q1N0B0\_BOVIN;sp|Q32LA7|H2AV\_BOVIN;sp|P0C0S4|H2  
sp|P0C8B3|GON7\_BOVIN  
sp|P10096|G3P\_BOVIN;tr|A0A3Q1M8J9|A0A3Q1M8J9\_BOVIN  
sp|P10103|HMGB1\_BOVIN;tr|E1BMK2|E1BMK2\_BOVIN;sp|P40673|HMGB2\_BOV  
sp|P10575|GLRX1\_BOVIN;tr|G8|KV3|G8|KV3\_BOVIN;tr|E1B773|E1B773\_BOVIN  
sp|P11017|GBB2\_BOVIN;tr|A5PKD6|A5PKD6\_BOVIN;tr|E1BB14|E1BB14\_BOVI  
sp|P11024|NNTM\_BOVIN  
sp|P11116|LEG1\_BOVIN  
tr|A0A3Q1MKV5|A0A3Q1MKV5\_BOVIN;tr|A0A3Q1MGN1|A0A3Q1MGN1\_BOVIN;  
tr|F1MEQ3|F1MEQ3\_BOVIN;tr|A0A3Q1LTZ5|A0A3Q1LTZ5\_BOVIN;sp|P11179|  
tr|A0A3Q1MED4|A0A3Q1MED4\_BOVIN;sp|P11181|ODB2\_BOVIN  
sp|P11456|MPRD\_BOVIN  
sp|P11966|ODPB\_BOVIN;tr|A0A3Q1MTX8|A0A3Q1MTX8\_BOVIN  
sp|P12234|MPCP\_BOVIN;tr|A6QQ54|A6QQ54\_BOVIN  
sp|P12344|AATM\_BOVIN  
sp|P12378|UGDH\_BOVIN  
tr|A0A3Q1MIY3|A0A3Q1MIY3\_BOVIN;sp|P13135|CPNS1\_BOVIN;tr|A0A3Q1M8  
tr|A0A3Q1N6F2|A0A3Q1N6F2\_BOVIN;tr|A0A140T857|A0A140T857\_BOVIN;sp|  
tr|A0A3Q1MHG7|A0A3Q1MHG7\_BOVIN;sp|P13214|ANXA4\_BOVIN  
sp|P13271|QCR8\_BOVIN;tr|A0A452DJA3|A0A452DJA3\_BOVIN  
sp|P13272|UCRI\_BOVIN  
tr|A0A3Q1M4M4|A0A3Q1M4M4\_BOVIN;sp|P13619|AT5F1\_BOVIN;tr|A0A3Q1M  
sp|P13620|ATP5H\_BOVIN  
tr|A0A3Q1MVM8|A0A3Q1MVM8\_BOVIN;sp|P13621|ATPO\_BOVIN  
sp|P13696|PEBP1\_BOVIN;tr|A0A3Q1LX99|A0A3Q1LX99\_BOVIN  
sp|P13752|HA1A\_BOVIN  
sp|P13753|HA1B\_BOVIN;tr|F6RF06|F6RF06\_BOVIN;tr|A0A3Q1LZ40|A0A3Q1L  
sp|P14568|ASSY\_BOVIN;tr|A0A3Q1MM52|A0A3Q1MM52\_BOVIN  
sp|P15103|GLNA\_BOVIN;tr|A0A3Q1M403|A0A3Q1M403\_BOVIN  
tr|G3MZZ6|G3MZZ6\_BOVIN;sp|P15246|PIMT\_BOVIN;tr|A0A452DIC6|A0A452DI  
sp|P15690|NDUS1\_BOVIN  
sp|P17248|SYWC\_BOVIN  
tr|A0A3Q1LWC1|A0A3Q1LWC1\_BOVIN;sp|P17694|NDUS2\_BOVIN  
sp|P18203|FKB1A\_BOVIN;tr|A0A3Q1MRN5|A0A3Q1MRN5\_BOVIN;tr|Q2NKS8|  
sp|P18902|RET4\_BOVIN;tr|G1K122|G1K122\_BOVIN;tr|A0A3Q1MSW9|A0A3Q1  
sp|P19035|APOC3\_BOVIN  
sp|P19120|HSP7C\_BOVIN;tr|A0A3Q1LMS5|A0A3Q1LMS5\_BOVIN;tr|A0A3Q1M8I  
tr|Q3ZC30|Q3ZC30\_BOVIN;sp|P19217|ST1E1\_BOVIN  
sp|P19483|ATPA\_BOVIN;tr|A0A3Q1LZQ9|A0A3Q1LZQ9\_BOVIN  
sp|P19660|CTHL2\_BOVIN  
sp|P19803|GDIR1\_BOVIN;tr|G3MW01|G3MW01\_BOVIN;tr|A0A452DJ82|A0A452  
sp|P19858|LDHA\_BOVIN;tr|A0A3Q1LY19|A0A3Q1LY19\_BOVIN;tr|F1MK19|F1MK  
sp|P20000|ALDH2\_BOVIN;tr|A0A3Q1LRC1|A0A3Q1LRC1\_BOVIN;tr|G3X6U1|G3  
tr|A0A3Q1M6K6|A0A3Q1M6K6\_BOVIN;sp|P20004|ACON\_BOVIN

sp|P20072|ANXA7\_BOVIN;tr|A0A3Q1NIT1|A0A3Q1NIT1\_BOVIN;tr|A0A3Q1LUS  
tr|F1MBI9|F1MBI9\_BOVIN;sp|P20821|GCSH\_BOVIN;tr|E1BBV5|E1BBV5\_BOVIN  
sp|P21839|ODBB\_BOVIN  
sp|P21856|GDIA\_BOVIN  
sp|P22226|CTHL1\_BOVIN  
sp|P22292|M2OM\_BOVIN  
sp|P23004|QCR2\_BOVIN;tr|A0A3Q1M7H9|A0A3Q1M7H9\_BOVIN;tr|A0A3Q1MCJ  
tr|A0A140T846|A0A140T846\_BOVIN;sp|P23196|APEX1\_BOVIN  
tr|F1MS25|F1MS25\_BOVIN;sp|P23709|NDUS3\_BOVIN  
sp|P23805|CONG\_BOVIN;sp|P42916|CL43\_BOVIN;tr|A0A452DJR7|A0A452DJR7  
sp|P23934|NDUS6\_BOVIN;tr|A8YXY4|A8YXY4\_BOVIN  
sp|P23935|NDUA5\_BOVIN  
sp|P24627|TRFL\_BOVIN  
sp|P25285|GCST\_BOVIN  
sp|P25326|CATS\_BOVIN  
sp|P25708|NDUV1\_BOVIN;tr|A0A3Q1MG52|A0A3Q1MG52\_BOVIN  
tr|A0A3Q1MKQ7|A0A3Q1MKQ7\_BOVIN;sp|P26452|RSSA\_BOVIN;tr|A0A3Q1MF  
tr|F1MXP8|F1MXP8\_BOVIN;tr|A0A3Q1MI01|A0A3Q1MI01\_BOVIN;sp|P26779|SA  
sp|P26884|FKBP3\_BOVIN  
tr|A0A3Q1LMV5|A0A3Q1LMV5\_BOVIN;sp|P28801|GSTP1\_BOVIN;tr|A0A452DH  
sp|P31404|VATA\_BOVIN;tr|A0A452DJG1|A0A452DJG1\_BOVIN  
tr|A0A140T887|A0A140T887\_BOVIN;sp|P31754|UMPS\_BOVIN  
tr|G1K1X0|G1K1X0\_BOVIN;sp|P31800|QCR1\_BOVIN  
sp|P32007|ADT3\_BOVIN;tr|A0A3Q1MP50|A0A3Q1MP50\_BOVIN;tr|A0A3Q1LTX  
sp|P33046|CTHL4\_BOVIN  
sp|P33097|AATC\_BOVIN  
sp|P33433|HRG\_BOVIN  
sp|P33672|PSB3\_BOVIN  
sp|P34942|NDUAA\_BOVIN;tr|A0A3Q1LPX6|A0A3Q1LPX6\_BOVIN;tr|G5E543|G  
sp|P34943|NDUA9\_BOVIN  
sp|P35466|S10A4\_BOVIN  
tr|G8JX8|G8JX8\_BOVIN;sp|P35605|COPB2\_BOVIN  
sp|P35705|PRDX3\_BOVIN  
sp|P37980|IPYR\_BOVIN  
sp|P38447|NUCG\_BOVIN;tr|A0A452DIJ1|A0A452DIJ1\_BOVIN  
tr|A5D7E8|A5D7E8\_BOVIN;sp|P38657|PDIA3\_BOVIN  
tr|A0A3Q1LRW8|A0A3Q1LRW8\_BOVIN;sp|P39872|RL3\_BOVIN;tr|F1N578|F1N5  
sp|P41541|USO1\_BOVIN  
sp|P41976|SODM\_BOVIN;tr|E1BHL1|E1BHL1\_BOVIN  
sp|P42028|NDUS8\_BOVIN;tr|A0A452DIK3|A0A452DIK3\_BOVIN  
sp|P42029|NDUA8\_BOVIN  
sp|P42899|RLA2\_BOVIN;tr|F1MH76|F1MH76\_BOVIN  
tr|A0A3Q1MS21|A0A3Q1MS21\_BOVIN;sp|P45879|VDAC1\_BOVIN;tr|A0A3Q1MJ  
tr|F1N650|F1N650\_BOVIN;sp|P46193|ANXA1\_BOVIN  
sp|P48034|AOXA\_BOVIN;tr|E1BBX5|E1BBX5\_BOVIN  
sp|P48305|NDUB4\_BOVIN  
sp|P48616|VIME\_BOVIN;sp|A6QQJ3|PERI\_BOVIN;sp|Q08DH7|AINX\_BOVIN;sp|  
sp|P48644|AL1A1\_BOVIN

sp|P48818|ACADV\_BOVIN;tr|A0A3Q1LQ76|A0A3Q1LQ76\_BOVIN  
sp|P49410|EFTU\_BOVIN  
sp|P49951|CLH1\_BOVIN;tr|F1MPU0|F1MPU0\_BOVIN  
sp|P50227|ST1A1\_BOVIN  
tr|A0A452DI24|A0A452DI24\_BOVIN;sp|P50397|GDIB\_BOVIN;tr|A0A3Q1MPF1  
tr|A0A3Q1LKS3|A0A3Q1LKS3\_BOVIN;tr|A0A3Q1NDM7|A0A3Q1NDM7\_BOVIN;sp|  
sp|P52175|NDKA2\_BOVIN;sp|P52174|NDKA1\_BOVIN  
tr|A5D7J6|A5D7J6\_BOVIN;sp|P52193|CALR\_BOVIN  
sp|P52556|BLVRB\_BOVIN;tr|A0A3Q1NNJ3|A0A3Q1NNJ3\_BOVIN  
sp|P52897|PGFS2\_BOVIN  
sp|P52898|DDBX\_BOVIN;tr|M0QW16|M0QW16\_BOVIN  
sp|P53619|COPD\_BOVIN  
tr|A0A3Q1LQI0|A0A3Q1LQI0\_BOVIN;tr|A0A140T886|A0A140T886\_BOVIN;sp|  
sp|P53712|ITB1\_BOVIN;tr|A0A452DIS2|A0A452DIS2\_BOVIN;tr|A0A140T8D2|  
tr|A0A3Q1M909|A0A3Q1M909\_BOVIN;sp|P54149|MSRA\_BOVIN;tr|A0A3Q1N5  
sp|P55156|MTP\_BOVIN;tr|F1MDA1|F1MDA1\_BOVIN  
sp|P55859|PNPH\_BOVIN;tr|A0A452DJA8|A0A452DJA8\_BOVIN;tr|G3X8C8|G3X8  
tr|A0A3Q1MNL9|A0A3Q1MNL9\_BOVIN;tr|F1MBS3|F1MBS3\_BOVIN;sp|P55906|  
tr|A6H7A2|A6H7A2\_BOVIN;sp|P56658|ADA\_BOVIN;tr|A0A3Q1M5V8|A0A3Q1M  
tr|A0A3Q1MIA4|A0A3Q1MIA4\_BOVIN;sp|P56701|PSMD2\_BOVIN  
sp|P56965|DDAH1\_BOVIN  
tr|A0A140T8D1|A0A140T8D1\_BOVIN;sp|P58875|S14L2\_BOVIN  
sp|P60661|MYL6\_BOVIN;tr|A0A452DID9|A0A452DID9\_BOVIN;tr|A0A3Q1MDB  
sp|P60712|ACTB\_BOVIN  
sp|P60984|GMFB\_BOVIN;tr|A0A3Q1MRQ7|A0A3Q1MRQ7\_BOVIN  
sp|P61157|ARP3\_BOVIN;tr|F1N049|F1N049\_BOVIN;tr|A0A3Q1MXB7|A0A3Q1M  
sp|P62833|RAP1A\_BOVIN;sp|P61223|RAP1B\_BOVIN;tr|A0A3Q1LTK0|A0A3Q1L  
sp|P61257|RL26\_BOVIN;tr|G3MYC1|G3MYC1\_BOVIN;tr|E1BCF5|E1BCF5\_BOVIN  
sp|P61282|NEDD8\_BOVIN  
sp|P61283|BAF\_BOVIN;tr|A0A3Q1ME94|A0A3Q1ME94\_BOVIN  
sp|P61284|RL12\_BOVIN;tr|G3MZG7|G3MZG7\_BOVIN;tr|F1MDX5|F1MDX5\_BOV  
tr|A0A3Q1LVE7|A0A3Q1LVE7\_BOVIN;sp|P61286|PABP1\_BOVIN;tr|A4IFC3|A4  
sp|P61356|RL27\_BOVIN  
sp|P61585|RHOA\_BOVIN;sp|Q1RMJ6|RHOC\_BOVIN;sp|Q3ZBW5|RHOB\_BOVIN  
tr|A0A3Q1N8Q5|A0A3Q1N8Q5\_BOVIN;sp|P61603|CH10\_BOVIN;tr|A0A3Q1MB  
sp|P62157|CALM\_BOVIN;tr|A0A3Q1MR28|A0A3Q1MR28\_BOVIN;tr|A0A452DIM  
tr|A0A3Q1LPN6|A0A3Q1LPN6\_BOVIN;tr|A0A3Q1M278|A0A3Q1M278\_BOVIN;sp  
sp|P62261|I433E\_BOVIN;tr|A0A3Q1M119|A0A3Q1M119\_BOVIN;tr|A0A3Q1MP  
sp|P62326|TYB4\_BOVIN;tr|G8JKY5|G8JKY5\_BOVIN;tr|A0A3Q1MS48|A0A3Q1M  
tr|G3X807|G3X807\_BOVIN;sp|P62803|H4\_BOVIN;tr|A0A3Q1MEZ8|A0A3Q1MEZ  
tr|A0A452DJK3|A0A452DJK3\_BOVIN;tr|Q32S29|Q32S29\_BOVIN;sp|P62808|H2  
sp|P62866|RS30\_BOVIN;tr|A0A3Q1MG78|A0A3Q1MG78\_BOVIN;tr|Q3SZG2|Q3  
sp|P62871|GBB1\_BOVIN;tr|A0A3Q1LJU0|A0A3Q1LJU0\_BOVIN  
sp|P62935|PIIA\_BOVIN;tr|G3X8B1|G3X8B1\_BOVIN;tr|A0A3Q1M9Y7|A0A3Q1M  
sp|P62958|HINT1\_BOVIN;tr|A0A3Q1MQJ9|A0A3Q1MQJ9\_BOVIN;tr|A0A452DIE9  
sp|P62992|RS27A\_BOVIN;tr|A0A3Q1M4K3|A0A3Q1M4K3\_BOVIN;sp|P63048|R  
tr|F1MNG3|F1MNG3\_BOVIN;sp|P62998|RAC1\_BOVIN;tr|A0A3Q1LXR2|A0A3Q1L  
sp|P63009|AP2B1\_BOVIN;sp|Q08DS7|AP1B1\_BOVIN;tr|G3X7G4|G3X7G4\_BOVIN

sp|P63103|1433Z\_BOVIN;tr|E1BDS9|E1BDS9\_BOVIN  
sp|P63243|RACK1\_BOVIN;tr|A0A3Q1M0K2|A0A3Q1M0K2\_BOVIN  
sp|P63258|ACTG\_BOVIN  
sp|P67774|PP2AA\_BOVIN;sp|Q0P594|PP2AB\_BOVIN;tr|A0A3Q1N489|A0A3Q1N  
tr|A0A3Q1MU45|A0A3Q1MU45\_BOVIN;sp|P67808|YBOX1\_BOVIN;tr|A5D7M4|A  
sp|P67810|SC11A\_BOVIN  
sp|P68002|VDAC2\_BOVIN;tr|A0A3Q1MAH7|A0A3Q1MAH7\_BOVIN  
sp|P68102|IF2A\_BOVIN  
sp|P68103|EF1A1\_BOVIN;tr|E1B9F6|E1B9F6\_BOVIN;sp|Q32PH8|EF1A2\_BOVI  
tr|A0A140T894|A0A140T894\_BOVIN;sp|P68250|1433B\_BOVIN  
tr|A7Z057|A7Z057\_BOVIN;sp|P68252|1433G\_BOVIN  
sp|P68301|MT2\_BOVIN;tr|Q2NKV6|Q2NKV6\_BOVIN;tr|Q17QH0|Q17QH0\_BOVIN  
sp|P68401|PA1B2\_BOVIN  
tr|G3N2P2|G3N2P2\_BOVIN;tr|G3MWX6|G3MWX6\_BOVIN;tr|E1BGN3|E1BGN3\_E  
sp|P68530|COX2\_BOVIN  
sp|P79102|CP3AS\_BOVIN;tr|Q29RV2|Q29RV2\_BOVIN;tr|A0A3Q1MFB5|A0A3Q1  
tr|A2VE06|A2VE06\_BOVIN;sp|P79103|RS4\_BOVIN;tr|G3N0K3|G3N0K3\_BOVIN;  
tr|F1MXY8|F1MXY8\_BOVIN;sp|P79110|TXTP\_BOVIN;tr|A0A3Q1MTZ5|A0A3Q1M  
sp|P79134|ANXA6\_BOVIN;tr|A0A3Q1M318|A0A3Q1M318\_BOVIN  
tr|A0A3Q1N3F6|A0A3Q1N3F6\_BOVIN;sp|P79135|MX1\_BOVIN;tr|F1MZT4|F1MZ  
tr|A0A452DI45|A0A452DI45\_BOVIN;tr|A0A3Q1N8A3|A0A3Q1N8A3\_BOVIN;tr|  
sp|P80177|MIF\_BOVIN;tr|A0A3Q1MT60|A0A3Q1MT60\_BOVIN  
sp|P80227|ACPH\_BOVIN;tr|A0A3Q1M9W1|A0A3Q1M9W1\_BOVIN  
sp|P80311|PPIB\_BOVIN;sp|Q08E11|PPIC\_BOVIN  
sp|P80425|FABPL\_BOVIN  
tr|A0A3S5ZPW7|A0A3S5ZPW7\_BOVIN;tr|A0A3Q1MM92|A0A3Q1MM92\_BOVIN;tr|  
sp|P80513|MANF\_BOVIN  
sp|P80724|BASP1\_BOVIN  
sp|P81125|SNAA\_BOVIN;tr|A0A3Q1M6H3|A0A3Q1M6H3\_BOVIN;tr|F6Q334|F6  
tr|A0A3Q1NA69|A0A3Q1NA69\_BOVIN;tr|A0A3Q1MP35|A0A3Q1MP35\_BOVIN;sp|  
sp|P81425|DPP4\_BOVIN;tr|F1MTV0|F1MTV0\_BOVIN;tr|A0A3Q1LUL5|A0A3Q1LL  
sp|P81623|ERP29\_BOVIN  
sp|P81947|TBA1B\_BOVIN;tr|A0A452DIK7|A0A452DIK7\_BOVIN;tr|A0A3Q1LUJ2|  
sp|P81948|TBA4A\_BOVIN;tr|A0A452DIH7|A0A452DIH7\_BOVIN;tr|A0A3Q1M1Z  
sp|P82708|RET5\_BOVIN  
tr|A5PJ81|A5PJ81\_BOVIN;sp|P83095|LACTB\_BOVIN  
sp|Q5E9I6|ARF3\_BOVIN;sp|P84080|ARF1\_BOVIN;sp|P84081|ARF2\_BOVIN;tr  
tr|A0JND6|A0JND6\_BOVIN;tr|A0A3Q1MK38|A0A3Q1MK38\_BOVIN;tr|F1MTJ9|F1  
sp|Q00361|ATP5I\_BOVIN;tr|G3MXE1|G3MXE1\_BOVIN;tr|A0A3Q1M2F0|A0A3Q1  
sp|Q01321|NDUA4\_BOVIN;tr|A0A3Q1M6L2|A0A3Q1M6L2\_BOVIN  
tr|A0A3Q1LT22|A0A3Q1LT22\_BOVIN;sp|Q01361|CP2DE\_BOVIN  
sp|Q02369|NDUB9\_BOVIN  
tr|F1MB80|F1MB80\_BOVIN;tr|G3MZ04|G3MZ04\_BOVIN;sp|Q02370|NDUA2\_BO  
sp|Q02373|NDUBA\_BOVIN  
sp|Q02375|NDUS4\_BOVIN;tr|A0A3Q1NH87|A0A3Q1NH87\_BOVIN  
sp|Q02827|NDUC2\_BOVIN  
sp|Q04467|IDHP\_BOVIN  
sp|Q05204|LAMP1\_BOVIN

sp|Q07130|UGPA\_BOVIN;tr|A0A3Q1MT05|A0A3Q1MT05\_BOVIN;tr|A0A3Q1M01  
sp|Q08D86|GLPK5\_BOVIN  
tr|A0A3Q1MDM5|A0A3Q1MDM5\_BOVIN;tr|A0A3Q1MFY4|A0A3Q1MFY4\_BOVIN;  
sp|Q08DI5|RAP2C\_BOVIN;tr|A0A3Q1M9I1|A0A3Q1M9I1\_BOVIN;tr|E1BNQ3|E1B  
sp|Q08DK4|GHC1\_BOVIN  
sp|Q08DP0|PGM1\_BOVIN;tr|A0A3Q1LRD1|A0A3Q1LRD1\_BOVIN;tr|F1MJS4|F1M  
sp|Q08E20|ESTD\_BOVIN;tr|A0A3Q1MAU7|A0A3Q1MAU7\_BOVIN  
sp|Q0II68|ACMSD\_BOVIN  
sp|Q0IIF7|UBP14\_BOVIN;tr|A0A3Q1M1Q2|A0A3Q1M1Q2\_BOVIN  
sp|Q0IIG8|RAB18\_BOVIN;tr|A0A452DIB1|A0A452DIB1\_BOVIN;tr|A0A3Q1LLK2  
sp|Q0IIJ2|H10\_BOVIN  
sp|Q0IIK5|DDX1\_BOVIN;tr|A7E3W7|A7E3W7\_BOVIN  
sp|Q0NXR6|ACAD8\_BOVIN  
tr|A0A452DHZ5|A0A452DHZ5\_BOVIN;sp|Q0P569|NUCB1\_BOVIN  
sp|Q0P5A6|PSMD5\_BOVIN;tr|F1N6Z0|F1N6Z0\_BOVIN  
sp|Q0P5B7|AAAD\_BOVIN;tr|G3X6X4|G3X6X4\_BOVIN  
sp|Q0P5G4|KAT3\_BOVIN  
sp|Q0P5I5|HOGA1\_BOVIN;tr|A0A3Q1LUQ5|A0A3Q1LUQ5\_BOVIN  
sp|Q0P5K3|UBE2N\_BOVIN;tr|A0A3Q1MW26|A0A3Q1MW26\_BOVIN;tr|A0A3Q1N  
tr|A0A3Q1MNI2|A0A3Q1MNI2\_BOVIN;sp|Q0P5L8|KBL\_BOVIN;tr|A0A452DIZ6|  
sp|Q0V8A3|CAST1\_BOVIN;tr|F1N308|F1N308\_BOVIN;tr|A0A3Q1NN05|A0A3Q1  
tr|A0A3Q1LHR9|A0A3Q1LHR9\_BOVIN;sp|Q0V8B6|TPP1\_BOVIN;tr|F1MK08|F1M  
sp|Q0V8R6|HEXA\_BOVIN  
tr|A0A3Q1MNU0|A0A3Q1MNU0\_BOVIN;tr|A0A3Q1MMA8|A0A3Q1MMA8\_BOVIN  
sp|Q0VCA8|3HAO\_BOVIN;tr|A0A452DIN3|A0A452DIN3\_BOVIN  
sp|Q0VCK0|PUR9\_BOVIN;tr|A0A3Q1LXU9|A0A3Q1LXU9\_BOVIN  
sp|Q0VCK5|AP2A2\_BOVIN;tr|A0A3Q1LIW3|A0A3Q1LIW3\_BOVIN;tr|A0A3Q1M5C  
sp|Q0VCM4|PYGL\_BOVIN;tr|A0A3Q1M168|A0A3Q1M168\_BOVIN;tr|A0A3Q1M2F  
sp|Q0VCN1|NMRL1\_BOVIN  
tr|A0A3Q1LVZ0|A0A3Q1LVZ0\_BOVIN;sp|Q0VCP1|KAD4\_BOVIN  
sp|Q0VCU1|ACOC\_BOVIN;tr|F1MS05|F1MS05\_BOVIN;tr|A0A3Q1MHC4|A0A3Q  
sp|Q0VCX2|BIP\_BOVIN  
sp|Q0VCX4|CTNB1\_BOVIN;tr|A0A3Q1NES2|A0A3Q1NES2\_BOVIN;tr|A0A3Q1LJ6  
sp|Q0VCY1|VAPA\_BOVIN;tr|A0A3Q1LUP8|A0A3Q1LUP8\_BOVIN  
sp|Q0VCY7|SRSF1\_BOVIN;tr|A0A3Q1MVT2|A0A3Q1MVT2\_BOVIN  
tr|A0A3Q1MLV3|A0A3Q1MLV3\_BOVIN;sp|Q0VD18|LHPP\_BOVIN  
sp|Q0VD53|VP26A\_BOVIN  
sp|Q0VFX8|CRIP2\_BOVIN  
sp|Q0Z7W6|TMX1\_BOVIN;tr|A0A3Q1M2J9|A0A3Q1M2J9\_BOVIN  
sp|Q148C9|HEBP1\_BOVIN;tr|A0A3Q1MAC3|A0A3Q1MAC3\_BOVIN;tr|G5E6G2|G  
sp|Q148J6|ARPC4\_BOVIN;tr|A0A452DIB6|A0A452DIB6\_BOVIN  
sp|Q148N0|ODO1\_BOVIN;tr|A0A3Q1MVL5|A0A3Q1MVL5\_BOVIN;tr|A0A3Q1NK  
tr|A0A3Q1MEY4|A0A3Q1MEY4\_BOVIN;sp|Q17QB3|ASAH1\_BOVIN  
sp|Q17QC0|PGRC1\_BOVIN;tr|A0A3Q1NIK5|A0A3Q1NIK5\_BOVIN;tr|G5E5M5|G5  
tr|F1MLG7|F1MLG7\_BOVIN;sp|Q17QF0|AGT2\_BOVIN  
sp|Q17QK8|SPRE\_BOVIN;tr|A0A140T8B1|A0A140T8B1\_BOVIN;tr|A0A3Q1N453  
sp|Q17QQ2|TPMT\_BOVIN  
tr|A0A3Q1LN44|A0A3Q1LN44\_BOVIN;sp|Q1JPH6|IF4H\_BOVIN;tr|G3MXI7|G3MX

sp|Q1JPJ2|XPP1\_BOVIN;tr|A0A3Q1LVC8|A0A3Q1LVC8\_BOVIN;tr|A0A452DKI9|A  
sp|Q1LZ83|LACB2\_BOVIN  
sp|Q1LZ95|IDI1\_BOVIN;tr|A0A140T853|A0A140T853\_BOVIN  
sp|Q1LZH1|MARC2\_BOVIN  
sp|Q1RMU4|ERLN2\_BOVIN;tr|F1MU96|F1MU96\_BOVIN;tr|A0A3Q1MLM7|A0A3  
tr|A0A452DJM0|A0A452DJM0\_BOVIN;tr|E1B983|E1B983\_BOVIN;sp|Q24JY1|RL2  
sp|Q24K16|PTGR3\_BOVIN;tr|F1N5J9|F1N5J9\_BOVIN  
tr|A0A3Q1MCV5|A0A3Q1MCV5\_BOVIN;tr|A0A140T856|A0A140T856\_BOVIN;sp  
sp|Q27975|HS71A\_BOVIN;sp|Q27965|HS71B\_BOVIN  
tr|A0A3Q1M3N4|A0A3Q1M3N4\_BOVIN;sp|Q27966|MYO1C\_BOVIN;tr|A0A452D  
sp|Q27971|CAN2\_BOVIN;tr|A0A3Q1LRZ7|A0A3Q1LRZ7\_BOVIN  
sp|Q27991|MYH10\_BOVIN;tr|A0A452DIZ9|A0A452DIZ9\_BOVIN;tr|A0A3Q1LNB  
sp|Q28007|DPYD\_BOVIN  
tr|A0A3Q1MKJ7|A0A3Q1MKJ7\_BOVIN;sp|Q28034|GLU2B\_BOVIN;tr|A0A3Q1MT  
tr|F1MCZ3|F1MCZ3\_BOVIN;tr|A2VE17|A2VE17\_BOVIN;sp|Q28046|ADSV\_BOVIN  
sp|Q28056|ASPH\_BOVIN  
tr|G3N1P1|G3N1P1\_BOVIN;sp|Q28110|FCGR2\_BOVIN;tr|A0A452DJ12|A0A452  
sp|Q28141|DHX9\_BOVIN  
tr|F1N269|F1N269\_BOVIN;sp|Q28824|MYLK\_BOVIN  
sp|Q28851|ATPK\_BOVIN;tr|A0A3Q1N4G2|A0A3Q1N4G2\_BOVIN;tr|A0A3Q1ML6  
tr|A0A0N4STN0|A0A0N4STN0\_BOVIN;sp|Q28852|ATP5L\_BOVIN;tr|E1BCK5|E1E  
sp|Q29423|CD44\_BOVIN;tr|Q0VD03|Q0VD03\_BOVIN;tr|F1MHC3|F1MHC3\_BOV  
tr|E1BJN3|E1BJN3\_BOVIN;sp|Q29437|AOCX\_BOVIN  
sp|Q29448|HMGCL\_BOVIN;tr|A0A3Q1MG92|A0A3Q1MG92\_BOVIN;tr|A0A3Q1M  
tr|A0A452DI46|A0A452DI46\_BOVIN;sp|Q29451|MA2B1\_BOVIN  
sp|Q29RK1|CISY\_BOVIN  
sp|Q29RK2|PYC\_BOVIN;tr|A0A3Q1MIC2|A0A3Q1MIC2\_BOVIN;tr|A0A3Q1MIX4|  
sp|Q29RK4|RD23B\_BOVIN;tr|A0A3Q1LND7|A0A3Q1LND7\_BOVIN;tr|A0A3Q1M2  
sp|Q29RU9|SOX\_BOVIN  
tr|A0A3Q1M3Q7|A0A3Q1M3Q7\_BOVIN;tr|F1MEN8|F1MEN8\_BOVIN;sp|Q29RV1|  
sp|Q29RZ0|THIL\_BOVIN  
sp|Q2HJ49|MOES\_BOVIN  
sp|Q2HJ55|SAM50\_BOVIN;tr|A0A3Q1MMP2|A0A3Q1MMP2\_BOVIN  
sp|Q2HJ57|COTL1\_BOVIN  
tr|A0A3Q1MDG7|A0A3Q1MDG7\_BOVIN;tr|A0A3Q1LRZ2|A0A3Q1LRZ2\_BOVIN;t  
sp|Q2HJ74|GATM\_BOVIN  
tr|A0A452DJ66|A0A452DJ66\_BOVIN;sp|Q2HJ86|TBA1D\_BOVIN;tr|F2Z4C1|F2Z4  
sp|Q2HJ97|PHB2\_BOVIN;tr|A0A3Q1LRZ4|A0A3Q1LRZ4\_BOVIN;tr|A0A3Q1MKK  
sp|Q2HJ98|FAHD1\_BOVIN  
sp|Q2HJD1|LMA2L\_BOVIN  
sp|Q2HJD7|3HIDH\_BOVIN;tr|A0A3Q1N443|A0A3Q1N443\_BOVIN  
sp|Q2HJF4|PBLD\_BOVIN  
tr|A0A3Q1MB42|A0A3Q1MB42\_BOVIN;tr|A0A3Q1LX06|A0A3Q1LX06\_BOVIN;tr  
sp|Q2HJG5|VPS35\_BOVIN  
tr|A0A3Q1M7H7|A0A3Q1M7H7\_BOVIN;sp|Q2HJH1|DNPEP\_BOVIN  
sp|Q2HJH2|RAB1B\_BOVIN;tr|A0A3Q1MWA3|A0A3Q1MWA3\_BOVIN;tr|G3MYN4|  
sp|Q2HJH3|CK054\_BOVIN  
sp|Q2KHT7|RS27\_BOVIN;sp|Q3T0B7|RS27L\_BOVIN;tr|A0A3Q1MP79|A0A3Q1M

sp|Q2KHU5|MACD1\_BOVIN;tr|A0A3Q1M2P0|A0A3Q1M2P0\_BOVIN  
sp|Q2KHU8|IF2G\_BOVIN;tr|G3MWU5|G3MWU5\_BOVIN  
sp|Q2KHX6|CRYM\_BOVIN  
tr|F1N1D5|F1N1D5\_BOVIN;sp|Q2KHZ8|GLCM\_BOVIN  
sp|Q2KHZ9|GCDH\_BOVIN;tr|A0A3Q1LJK2|A0A3Q1LJK2\_BOVIN  
tr|A0A3Q1MDI3|A0A3Q1MDI3\_BOVIN;sp|Q2KI42|PSD11\_BOVIN  
tr|A0A452DJZ7|A0A452DJZ7\_BOVIN;sp|Q2KIA9|ENOF1\_BOVIN  
sp|Q2KIE6|HMCS2\_BOVIN  
tr|A0A3Q1MBY0|A0A3Q1MBY0\_BOVIN;sp|Q2KIG0|ETFD\_BOVIN;tr|A0A452DIQ6  
sp|Q2KIH7|PH4H\_BOVIN;tr|A0A452DIK4|A0A452DIK4\_BOVIN;tr|A0A3Q1MR89  
sp|Q2KII4|ELOC\_BOVIN  
sp|Q2KIL5|PDIA5\_BOVIN  
tr|F1MTZ7|F1MTZ7\_BOVIN;sp|Q2KIR7|GLYAT\_BOVIN;tr|A0A3Q1MPE2|A0A3Q1  
tr|A0A3Q1MR93|A0A3Q1MR93\_BOVIN;sp|Q2KIR8|TDH\_BOVIN  
tr|F1MY26|F1MY26\_BOVIN;sp|Q2KIU2|PMVK\_BOVIN  
sp|Q2KIV1|S22A9\_BOVIN;tr|F1MGV4|F1MGV4\_BOVIN  
tr|F1MLV1|F1MLV1\_BOVIN;sp|Q2KIW6|PRS10\_BOVIN;tr|A0A3Q1M8B0|A0A3Q1  
sp|Q2KIW9|KCY\_BOVIN;tr|A0A452DIX8|A0A452DIX8\_BOVIN  
sp|Q2KIZ3|MCEE\_BOVIN;tr|A0A452DJE5|A0A452DJE5\_BOVIN  
tr|A0A3Q1N308|A0A3Q1N308\_BOVIN;sp|Q2KJ32|SBP1\_BOVIN;tr|A0A3Q1MFJ3  
tr|A0A3Q1LL25|A0A3Q1LL25\_BOVIN;sp|Q2KJ44|PTPA\_BOVIN  
sp|Q2KJ46|PSMD3\_BOVIN  
sp|Q2KJ64|ARGI1\_BOVIN  
sp|Q2KJ93|CDC42\_BOVIN;tr|F1MND1|F1MND1\_BOVIN  
tr|F1N1M7|F1N1M7\_BOVIN;sp|Q2KJB7|CPT2\_BOVIN  
sp|Q2KJD0|TBB5\_BOVIN;tr|A0A3Q1LNI7|A0A3Q1LNI7\_BOVIN  
sp|Q2KJF7|GLCTK\_BOVIN  
tr|A0A3Q1M1K1|A0A3Q1M1K1\_BOVIN;tr|F1MKH6|F1MKH6\_BOVIN;sp|Q2KJG3|  
sp|Q2KJH4|WDR1\_BOVIN;tr|F1MTP5|F1MTP5\_BOVIN  
sp|Q2KJH6|SERPH\_BOVIN  
sp|Q2KJH9|AL9A1\_BOVIN  
sp|Q2KJI2|STT3A\_BOVIN  
sp|Q2NKY7|SEPT2\_BOVIN  
tr|A0A3Q1MUU9|A0A3Q1MUU9\_BOVIN;sp|Q2NKZ1|TCPH\_BOVIN  
sp|Q2NL00|GSTT1\_BOVIN  
sp|Q2NL34|COQ9\_BOVIN  
tr|E1BJX8|E1BJX8\_BOVIN;sp|Q2T9M7|P20D1\_BOVIN  
sp|Q2T9S4|PGP\_BOVIN  
sp|Q2T9Y6|GSH0\_BOVIN  
sp|Q2TA49|VASP\_BOVIN;tr|A0A3Q1LSS3|A0A3Q1LSS3\_BOVIN;tr|A0A3Q1MKR  
sp|Q2TBG8|UCHL3\_BOVIN;tr|A0A3Q1N522|A0A3Q1N522\_BOVIN;tr|A0A452DK  
sp|Q2TBI4|TRAP1\_BOVIN;tr|A0A3Q1MT00|A0A3Q1MT00\_BOVIN  
sp|Q2TBQ3|GAMT\_BOVIN  
sp|Q2TBQ5|RL7A\_BOVIN  
tr|F1MM83|F1MM83\_BOVIN;sp|Q2TBQ8|6PGL\_BOVIN  
tr|A0A3Q1LPE3|A0A3Q1LPE3\_BOVIN;sp|Q2TBR0|PCCB\_BOVIN;tr|A0A452DIR  
sp|Q2TBT3|ECHD2\_BOVIN;tr|A0A452DIJ4|A0A452DIJ4\_BOVIN;tr|G3N0L3|G  
sp|Q2TBU0|HPT\_BOVIN;tr|A0A3Q1MB98|A0A3Q1MB98\_BOVIN;tr|G3X6K8|G3X

sp|Q2TBV3|ETFB\_BOVIN;tr|A0A3Q1LKJ8|A0A3Q1LKJ8\_BOVIN;tr|A0A452DIY9|A  
tr|F1MZN7|F1MZN7\_BOVIN;sp|Q2TBW7|SNX2\_BOVIN;tr|A0A3Q1N1C2|A0A3Q1  
sp|Q2TBX5|SSRD\_BOVIN;tr|A0A3Q1LSB2|A0A3Q1LSB2\_BOVIN  
tr|G5E589|G5E589\_BOVIN;sp|Q2TBX6|PSB1\_BOVIN  
sp|Q2YDE4|PSA6\_BOVIN  
tr|F1MT51|F1MT51\_BOVIN;tr|A0A3Q1LI03|A0A3Q1LI03\_BOVIN;sp|Q2YDL5|FKB  
sp|Q32KL2|PSB5\_BOVIN  
sp|Q32KX0|ISOC2\_BOVIN  
sp|Q32KX8|MTL26\_BOVIN  
sp|Q32L10|TM205\_BOVIN  
sp|Q32L41|GFRP\_BOVIN  
tr|A0A3Q1LMK8|A0A3Q1LMK8\_BOVIN;sp|Q32L99|PTGR2\_BOVIN  
sp|Q32LE5|ASGL1\_BOVIN  
sp|Q32LG3|MDHM\_BOVIN;tr|A0A3Q1LTB0|A0A3Q1LTB0\_BOVIN  
tr|F1N1W5|F1N1W5\_BOVIN;sp|Q32LH4|NIT1\_BOVIN;tr|A0A3Q1NJ32|A0A3Q1N  
tr|A5PJA6|A5PJA6\_BOVIN;sp|Q32LL2|STML2\_BOVIN  
tr|F1MMJ5|F1MMJ5\_BOVIN;sp|Q32LP0|URP2\_BOVIN  
sp|Q32LP2|RADI\_BOVIN;tr|A0A3Q1MS33|A0A3Q1MS33\_BOVIN  
sp|Q32PA4|PHP14\_BOVIN  
sp|Q32PA8|AAMDC\_BOVIN  
sp|Q32PA9|FKBP2\_BOVIN;tr|G1K1P8|G1K1P8\_BOVIN;tr|A0A3Q1M300|A0A3Q1  
sp|Q32PB8|RS21\_BOVIN;tr|F1MUM6|F1MUM6\_BOVIN  
sp|Q32PB9|RL38\_BOVIN  
sp|Q32PD5|RS19\_BOVIN;tr|A0A3Q1M6V0|A0A3Q1M6V0\_BOVIN;tr|E1BHA5|E1  
tr|A0A3Q1M1U2|A0A3Q1M1U2\_BOVIN;tr|A0A3Q1LW84|A0A3Q1LW84\_BOVIN;t  
sp|Q3B7M2|GLO2\_BOVIN;tr|A0A3Q1ND53|A0A3Q1ND53\_BOVIN  
sp|Q3B7M5|LASP1\_BOVIN  
tr|A0A3Q1LUB3|A0A3Q1LUB3\_BOVIN;sp|Q3MHF7|MTAP\_BOVIN  
sp|Q3MHH4|SYQ\_BOVIN  
tr|A0A3Q1LQS4|A0A3Q1LQS4\_BOVIN;tr|F1MN72|F1MN72\_BOVIN;sp|Q3MHH6|  
sp|Q3MHL3|RBBP4\_BOVIN;sp|Q3SWX8|RBBP7\_BOVIN;tr|A0A3Q1LUZ1|A0A3Q1  
sp|Q3MHL4|SAHH\_BOVIN;tr|A0A3Q1LW27|A0A3Q1LW27\_BOVIN;tr|A0A3Q1M2  
sp|Q3MHL7|TCPZ\_BOVIN;tr|F1MGX0|F1MGX0\_BOVIN;tr|F1MP48|F1MP48\_BOVI  
sp|Q3MHM5|TBB4B\_BOVIN  
tr|A0A3Q1M0V1|A0A3Q1M0V1\_BOVIN;tr|F1MM34|F1MM34\_BOVIN;sp|Q3MHM6|  
sp|Q3MHN0|PSB6\_BOVIN  
sp|Q3MHP2|RB11B\_BOVIN;tr|F2Z4D5|F2Z4D5\_BOVIN;sp|Q2TA29|RB11A\_BOV  
tr|A0A452DI02|A0A452DI02\_BOVIN;sp|Q3MHR0|LYPA1\_BOVIN;tr|A0A3Q1M5  
sp|Q3MHR3|DYL2\_BOVIN;tr|E1B7A3|E1B7A3\_BOVIN;tr|G3MX54|G3MX54\_BOVI  
sp|Q3MHR5|SRSF2\_BOVIN  
sp|Q3MHR7|ARPC2\_BOVIN;tr|F1MEL0|F1MEL0\_BOVIN  
sp|Q3MHX5|SUCB2\_BOVIN  
sp|Q3MHY1|CSRP1\_BOVIN  
sp|Q3MIC0|RL37A\_BOVIN  
tr|A0A3Q1MJE6|A0A3Q1MJE6\_BOVIN;tr|A0A3Q1NGM8|A0A3Q1NGM8\_BOVIN;s  
tr|A0A3Q1LT59|A0A3Q1LT59\_BOVIN;tr|F1MWQ2|F1MWQ2\_BOVIN;sp|Q3SWX7  
sp|Q3SWY2|ILK\_BOVIN  
sp|Q3SX44|DDAH2\_BOVIN

tr|G3N2H8|G3N2H8\_BOVIN;tr|G3MYL1|G3MYL1\_BOVIN;tr|A0A3Q1ME53|A0A3C  
tr|A0A3Q1MQF2|A0A3Q1MQF2\_BOVIN;tr|A0A3Q1MEI8|A0A3Q1MEI8\_BOVIN;sp  
sp|Q3SYU2|EF2\_BOVIN;tr|A0A3Q1MM86|A0A3Q1MM86\_BOVIN;tr|F1N6D5|F1N  
tr|A0A3Q1MFD0|A0A3Q1MFD0\_BOVIN;tr|F1MNN6|F1MNN6\_BOVIN;sp|Q3SYU9  
sp|Q3SYV4|CAP1\_BOVIN;tr|A6QLB7|A6QLB7\_BOVIN;tr|A0A3Q1LJQ7|A0A3Q1LJ  
tr|A0A3Q1MA60|A0A3Q1MA60\_BOVIN;sp|Q3SYW6|EIF3C\_BOVIN  
sp|Q3SYY7|OCAD2\_BOVIN  
tr|F1MTX7|F1MTX7\_BOVIN;sp|Q3SYZ4|SYDC\_BOVIN;tr|A0A3Q1LXT8|A0A3Q1L  
sp|Q3SZ16|IAH1\_BOVIN  
sp|Q3SZ18|HPRT\_BOVIN;tr|A0A3Q1MDR4|A0A3Q1MDR4\_BOVIN;tr|G3N0T0|G3  
sp|Q3SZ20|GLYM\_BOVIN  
sp|Q3SZ43|UB2V2\_BOVIN;tr|A0A3Q1ND89|A0A3Q1ND89\_BOVIN;tr|A0A3Q1LM  
sp|Q3SZ54|IF4A1\_BOVIN;tr|A0A3Q1M8I1|A0A3Q1M8I1\_BOVIN  
sp|Q3SZ62|PGAM1\_BOVIN;tr|F1N2F2|F1N2F2\_BOVIN;sp|Q32KV0|PGAM2\_BOV  
tr|A0A3Q1M0L3|A0A3Q1M0L3\_BOVIN;sp|Q3SZ65|IF4A2\_BOVIN  
tr|E1B941|E1B941\_BOVIN;sp|Q3SZ71|MPPB\_BOVIN  
tr|A0A3Q1MLJ9|A0A3Q1MLJ9\_BOVIN;sp|Q3SZ90|RL13A\_BOVIN  
sp|Q3SZA0|CSN4\_BOVIN  
tr|F1ME02|F1ME02\_BOVIN;sp|Q3SZA5|SPSY\_BOVIN  
sp|Q3SZB4|ACADM\_BOVIN;tr|A0A3Q1MKZ2|A0A3Q1MKZ2\_BOVIN  
sp|Q3SZB7|F16P1\_BOVIN;tr|A0A3Q1MK34|A0A3Q1MK34\_BOVIN;sp|Q2KJJ9|F1  
tr|A0A3Q1M4Z0|A0A3Q1M4Z0\_BOVIN;tr|A0A3Q1MJM9|A0A3Q1MJM9\_BOVIN;s  
sp|Q3SZC4|NSF1C\_BOVIN  
sp|Q3SZD7|CBR1\_BOVIN;tr|A0A3Q1ML32|A0A3Q1ML32\_BOVIN  
sp|Q3SZF2|ARF4\_BOVIN;tr|A0A3Q1MQE0|A0A3Q1MQE0\_BOVIN;tr|A0A3Q1LV0  
sp|Q3SZF3|HNRH2\_BOVIN;tr|A5D9B4|A5D9B4\_BOVIN;tr|E1BMP6|E1BMP6\_BOV  
tr|A0A3Q1M6N7|A0A3Q1M6N7\_BOVIN;sp|Q3SZH7|LKHA4\_BOVIN  
tr|A0A3Q1MQS3|A0A3Q1MQS3\_BOVIN;sp|Q3SZI4|1433T\_BOVIN;tr|A0A3Q1M  
tr|A0A452DJG7|A0A452DJG7\_BOVIN;sp|Q3SZI6|RPN2\_BOVIN;tr|A0A3Q1MS82  
sp|Q3SZI8|IVD\_BOVIN;tr|A0A452DI40|A0A452DI40\_BOVIN  
sp|Q3SZJ0|ARLY\_BOVIN;tr|A0A3Q1MI98|A0A3Q1MI98\_BOVIN  
sp|Q3SZK8|NHRF1\_BOVIN  
tr|G8JL05|G8JL05\_BOVIN;sp|Q3SZL3|MBOA5\_BOVIN  
sp|Q3SZP5|ACOX1\_BOVIN;tr|A0A3Q1MI26|A0A3Q1MI26\_BOVIN  
sp|Q3SZQ6|RL32\_BOVIN  
sp|Q3SZR8|SRSF3\_BOVIN  
sp|Q3SZV0|TTC36\_BOVIN  
tr|F1MG05|F1MG05\_BOVIN;sp|Q3SZV3|EF1G\_BOVIN  
sp|Q3SZV7|HEMO\_BOVIN;tr|A0A452DI25|A0A452DI25\_BOVIN;CON\_\_Q3SZV7;  
sp|Q3SZX4|CAH3\_BOVIN  
tr|F1MG20|F1MG20\_BOVIN;sp|Q3T001|H17B6\_BOVIN;tr|A0A3Q1M579|A0A3Q  
tr|A0A452DJF6|A0A452DJF6\_BOVIN;tr|F1MQJ8|F1MQJ8\_BOVIN;sp|Q3T025|R  
sp|Q3T035|ARPC3\_BOVIN;tr|A0A3Q1MQH2|A0A3Q1MQH2\_BOVIN  
tr|F1MLA4|F1MLA4\_BOVIN;sp|Q3T046|BDH2\_BOVIN  
sp|Q3T054|RAN\_BOVIN;tr|G5E619|G5E619\_BOVIN;tr|G3MZP2|G3MZP2\_BOVIN  
sp|Q3T057|RL23\_BOVIN  
sp|Q3T061|COX7R\_BOVIN  
sp|Q3T063|NADC\_BOVIN

tr|F1MX05|F1MX05\_BOVIN;sp|Q3T067|SCPDL\_BOVIN  
sp|Q3T087|RL11\_BOVIN;tr|A0A3Q1N8F8|A0A3Q1N8F8\_BOVIN;tr|A0A452DIZ2  
sp|Q3T094|ETHE1\_BOVIN  
tr|F1MXE4|F1MXE4\_BOVIN;sp|Q3T0B2|PSMD6\_BOVIN  
sp|Q3T0B6|C1QBP\_BOVIN  
sp|Q3T0C6|AT1B3\_BOVIN  
sp|Q3T0D0|HNRPK\_BOVIN;tr|A0A3Q1N9S5|A0A3Q1N9S5\_BOVIN;tr|A0A3Q1MC  
sp|Q3T0D5|RL30\_BOVIN;tr|A0A3Q1N7Q5|A0A3Q1N7Q5\_BOVIN;tr|A0A452DIP9  
sp|Q3T0E0|ATOX1\_BOVIN  
sp|Q3T0E3|COA3\_BOVIN  
tr|A0A452DHZ7|A0A452DHZ7\_BOVIN;sp|Q3T0E5|APMAP\_BOVIN  
sp|Q3T0F4|RS10\_BOVIN  
sp|Q3T0F7|MTPN\_BOVIN  
tr|A0A3Q1MW28|A0A3Q1MW28\_BOVIN;sp|Q3T0I2|CATH\_BOVIN  
sp|Q3T0I4|THOC4\_BOVIN  
sp|Q3T0K2|TCPG\_BOVIN  
sp|Q3T0L2|ERP44\_BOVIN;tr|A0A3Q1M5Q1|A0A3Q1M5Q1\_BOVIN  
sp|Q3T0P6|PGK1\_BOVIN;tr|G3X7N4|G3X7N4\_BOVIN;tr|A0A3Q1MPQ0|A0A3Q1  
sp|Q3T0Q4|NDKB\_BOVIN  
sp|Q3T0R1|RS18\_BOVIN;tr|A0A3Q1MQW8|A0A3Q1MQW8\_BOVIN;tr|A0A3Q1LZ  
tr|A0A3Q1MB48|A0A3Q1MB48\_BOVIN;tr|F1MN23|F1MN23\_BOVIN;sp|Q3T0R4|  
sp|Q3T0R7|THIM\_BOVIN;tr|A0A3Q1MDH5|A0A3Q1MDH5\_BOVIN;tr|A0A3Q1NE  
sp|Q3T0S5|ALDOB\_BOVIN  
sp|Q3T0S6|RL8\_BOVIN;tr|E1BHY4|E1BHY4\_BOVIN  
sp|Q3T0T7|SAR1B\_BOVIN;sp|Q3T0D7|SAR1A\_BOVIN  
sp|Q3T0U2|RL14\_BOVIN;tr|G8J|KV5|G8J|KV5\_BOVIN  
sp|Q3T0V4|RS11\_BOVIN  
sp|Q3T0V9|DEOC\_BOVIN;tr|A0A3Q1MHS3|A0A3Q1MHS3\_BOVIN  
sp|Q3T0W4|PP1R7\_BOVIN  
sp|Q3T0W9|RL19\_BOVIN  
sp|Q3T0X5|PSA1\_BOVIN  
sp|Q3T0X6|RS16\_BOVIN;tr|E1BAT6|E1BAT6\_BOVIN;tr|A0A3Q1LQ87|A0A3Q1L  
sp|Q3T0X8|NHRF3\_BOVIN;tr|A0A452DI72|A0A452DI72\_BOVIN  
sp|Q3T0Y3|ST1B1\_BOVIN;tr|A0A3Q1MTI3|A0A3Q1MTI3\_BOVIN  
tr|A0A3Q1LX83|A0A3Q1LX83\_BOVIN;sp|Q3T0Y5|PSA2\_BOVIN  
sp|Q3T0Z7|DHPR\_BOVIN;tr|A0A3Q1LU13|A0A3Q1LU13\_BOVIN  
sp|Q3T100|MGST3\_BOVIN;tr|A0A452DIG5|A0A452DIG5\_BOVIN  
sp|Q3T105|GALE\_BOVIN;tr|A0A452DIP2|A0A452DIP2\_BOVIN  
tr|A0A3Q1MDR9|A0A3Q1MDR9\_BOVIN;sp|Q3T106|SRSF7\_BOVIN  
sp|Q3T108|PSB4\_BOVIN  
sp|Q3T114|RIDA\_BOVIN;tr|A0A3Q1MM98|A0A3Q1MM98\_BOVIN  
sp|Q3T133|TMED9\_BOVIN;tr|F1N6C2|F1N6C2\_BOVIN  
tr|A0A452DIW4|A0A452DIW4\_BOVIN;sp|Q3T145|MDHC\_BOVIN  
sp|Q3T147|DX39B\_BOVIN;tr|Q5E970|Q5E970\_BOVIN;tr|F6R6R6|F6R6R6\_BOVI  
sp|Q3T149|HSPB1\_BOVIN  
sp|Q3T160|NPM\_BOVIN;tr|F1MTV9|F1MTV9\_BOVIN;tr|A0A3Q1LR94|A0A3Q1LR  
sp|Q3T165|PHB\_BOVIN  
sp|Q3T169|RS3\_BOVIN

sp|Q3T171|RL36\_BOVIN;tr|A0A3Q1M547|A0A3Q1M547\_BOVIN  
tr|A0A452DI87|A0A452DI87\_BOVIN;sp|Q3T189|SDHB\_BOVIN;tr|A0A3Q1LZ07  
tr|E1B8G4|E1B8G4\_BOVIN;sp|Q3T199|RS23\_BOVIN;tr|E1BEQ3|E1BEQ3\_BOVIN  
sp|Q3ZBA8|NDRG2\_BOVIN;tr|F1MTZ1|F1MTZ1\_BOVIN  
sp|Q3ZBD3|PHS\_BOVIN  
sp|Q3ZBE9|NSDHL\_BOVIN  
sp|Q3ZBG0|PSA7\_BOVIN  
sp|Q3ZBH0|TCPB\_BOVIN;tr|A0A3Q1LV18|A0A3Q1LV18\_BOVIN  
tr|A0A3Q1ML84|A0A3Q1ML84\_BOVIN;sp|Q3ZBI7|ATPMD\_BOVIN  
sp|Q3ZBK2|PXL2A\_BOVIN  
sp|Q3ZBL1|MTND\_BOVIN;tr|A0A3Q1N2K5|A0A3Q1N2K5\_BOVIN;tr|A0A452DI27  
sp|Q3ZBL5|PTH2\_BOVIN  
sp|Q3ZBM5|SNX5\_BOVIN;tr|A0A3Q1MR47|A0A3Q1MR47\_BOVIN;tr|F1ML34|F1  
sp|Q3ZBS8|TIM8A\_BOVIN  
sp|Q3ZBT1|TERA\_BOVIN;tr|G3X757|G3X757\_BOVIN;tr|A0A3Q1M0U9|A0A3Q1  
sp|Q3ZBT6|TRA2B\_BOVIN  
sp|Q3ZBU2|CISD1\_BOVIN;tr|A0A3Q1LY77|A0A3Q1LY77\_BOVIN;tr|A0A3Q1M  
sp|Q3ZBU7|TBB4A\_BOVIN  
sp|Q3ZBV8|SYTC\_BOVIN;sp|A6QNM8|SYTC2\_BOVIN;tr|A0A3Q1M0Y0|A0A3Q1M  
sp|Q3ZBV9|DHR11\_BOVIN;tr|A0A452DID6|A0A452DID6\_BOVIN  
sp|Q3ZBW2|HAOX2\_BOVIN  
sp|Q3ZBZ8|STIP1\_BOVIN;tr|A0A3Q1LW78|A0A3Q1LW78\_BOVIN;tr|A0A3Q1ML  
sp|Q3ZC07|ACTC\_BOVIN;tr|G8JKX4|G8JKX4\_BOVIN;sp|P62739|ACTA\_BOVIN;t  
sp|Q3ZC13|AP2M1\_BOVIN;tr|A0A452DIL3|A0A452DIL3\_BOVIN;tr|A0A3Q1MC  
sp|Q3ZC33|GGLO\_BOVIN  
sp|Q3ZC42|ADHX\_BOVIN;tr|A0A3Q1LSZ6|A0A3Q1LSZ6\_BOVIN  
sp|Q3ZC84|CNDP2\_BOVIN;tr|A0A3Q1LW01|A0A3Q1LW01\_BOVIN  
sp|Q3ZCC9|SEC13\_BOVIN  
sp|Q3ZCD0|CD81\_BOVIN  
sp|Q3ZCD7|TECR\_BOVIN;tr|A0A3Q1LS26|A0A3Q1LS26\_BOVIN;tr|A0A3Q1LZT2  
sp|Q3ZCF0|DCTN2\_BOVIN;tr|A0A3Q1LSJ7|A0A3Q1LSJ7\_BOVIN;tr|A0A3Q1MC  
tr|A0A3Q1MEL2|A0A3Q1MEL2\_BOVIN;sp|Q3ZCF3|SKP1\_BOVIN  
sp|Q3ZCH0|GRP75\_BOVIN  
sp|Q3ZCI9|TCPQ\_BOVIN;tr|A0A3Q1MTL6|A0A3Q1MTL6\_BOVIN;tr|G3X861|G3X  
sp|Q3ZCJ2|AK1A1\_BOVIN  
sp|Q3ZCK3|BPNT1\_BOVIN;tr|A0A3Q1MCU7|A0A3Q1MCU7\_BOVIN  
sp|Q3ZCK9|PSA4\_BOVIN  
sp|Q3ZCL8|SH3L3\_BOVIN  
sp|Q4PJW3|CP51A\_BOVIN  
tr|A0A3Q1MAG5|A0A3Q1MAG5\_BOVIN;tr|A0A3Q1MK57|A0A3Q1MK57\_BOVIN;tr  
tr|A0A3Q1NMC5|A0A3Q1NMC5\_BOVIN;tr|A0A3Q1NDD3|A0A3Q1NDD3\_BOVIN;  
sp|Q56JV6|TWF1\_BOVIN;tr|A0A452DJ17|A0A452DJ17\_BOVIN;tr|A0A3Q1NES9  
sp|Q56JV9|RS3A\_BOVIN;tr|G3N262|G3N262\_BOVIN;tr|A0A3Q1N7H0|A0A3Q1N  
sp|Q56JW4|APT\_BOVIN;tr|A0A452DIE3|A0A452DIE3\_BOVIN  
tr|G3MX45|G3MX45\_BOVIN;sp|Q56JX3|RL31\_BOVIN;tr|A0A452DIW3|A0A452D  
tr|A0A0A0MPA4|A0A0A0MPA4\_BOVIN;tr|A0A3Q1MTI8|A0A3Q1MTI8\_BOVIN;sp|  
sp|Q56JX6|RS28\_BOVIN  
sp|Q56JX8|RS13\_BOVIN;tr|A0A3Q1MB96|A0A3Q1MB96\_BOVIN;tr|E1BGR6|E1B

tr|E1BHM9|E1BHM9\_BOVIN;sp|Q56JY1|RL35A\_BOVIN;tr|A0A3Q1M0X1|A0A3Q  
tr|F1MK30|F1MK30\_BOVIN;sp|Q56JZ1|RL13\_BOVIN;tr|A0A3Q1M4M0|A0A3Q1  
tr|G1K1B4|G1K1B4\_BOVIN;sp|Q56K03|RL27A\_BOVIN;tr|E1BE42|E1BE42\_BOV  
sp|Q56K14|RLA1\_BOVIN;tr|E1BCL5|E1BCL5\_BOVIN  
sp|Q58CQ2|ARC1B\_BOVIN;tr|A0A3Q1LGG1|A0A3Q1LGG1\_BOVIN  
sp|Q58D08|P5CR3\_BOVIN  
sp|Q58D31|DHSO\_BOVIN;tr|A0A3Q1M465|A0A3Q1M465\_BOVIN;tr|A0A3Q1MU  
sp|Q58D49|MMAB\_BOVIN;tr|E1B6Z7|E1B6Z7\_BOVIN;tr|A0A3Q1NBS4|A0A3Q1  
sp|Q58DA0|PSMD4\_BOVIN;tr|A0A452DI44|A0A452DI44\_BOVIN  
sp|Q58DC0|CPPED\_BOVIN;tr|A0A140T860|A0A140T860\_BOVIN;tr|A0A3Q1MPJ  
tr|Q1RMM9|Q1RMM9\_BOVIN;sp|Q58DH9|NAGAB\_BOVIN  
sp|Q58DK5|HEM2\_BOVIN  
sp|Q58DM8|ECHM\_BOVIN;tr|A0A3Q1MLN1|A0A3Q1MLN1\_BOVIN;tr|A0A3Q1M  
sp|Q58DQ3|RL6\_BOVIN;tr|G3N2R1|G3N2R1\_BOVIN  
tr|A0A3Q1N238|A0A3Q1N238\_BOVIN;tr|F1MZ38|F1MZ38\_BOVIN;sp|Q58DR8|  
tr|A0A3Q1N8E3|A0A3Q1N8E3\_BOVIN;sp|Q58DS9|RAB5C\_BOVIN;sp|Q0IIG7|RA  
sp|Q58DT1|RL7\_BOVIN;tr|E1BLQ8|E1BLQ8\_BOVIN;tr|F1N7A3|F1N7A3\_BOVIN;  
sp|Q58DU5|PSA3\_BOVIN  
sp|Q58DU7|SH3L1\_BOVIN  
tr|A0A3Q1MM65|A0A3Q1MM65\_BOVIN;sp|Q58DW0|RL4\_BOVIN;tr|G3MXR5|G3  
tr|E1BNH2|E1BNH2\_BOVIN;sp|Q58DW2|CGL\_BOVIN;tr|B0JYP8|B0JYP8\_BOVIN;  
sp|Q58DW5|RL5\_BOVIN;tr|A0A3Q1MMW5|A0A3Q1MMW5\_BOVIN;tr|G3N1F5|G.  
sp|Q59A32|PUR2\_BOVIN  
sp|Q5E936|TXD12\_BOVIN;tr|A0A3Q1MWL9|A0A3Q1MWL9\_BOVIN  
sp|Q5E946|PARK7\_BOVIN  
sp|Q5E947|PRDX1\_BOVIN;tr|A0A3Q1MIR5|A0A3Q1MIR5\_BOVIN  
tr|A0A3Q1LQ85|A0A3Q1LQ85\_BOVIN;tr|A0A140T8C4|A0A140T8C4\_BOVIN;sp  
sp|Q5E954|DNJA1\_BOVIN  
sp|Q5E956|TPIS\_BOVIN;tr|A0A452DIX3|A0A452DIX3\_BOVIN  
sp|Q5E958|RS8\_BOVIN;tr|A0A3Q1LPB5|A0A3Q1LPB5\_BOVIN  
sp|Q5E959|STRAP\_BOVIN  
sp|Q5E963|ARP5L\_BOVIN  
sp|Q5E964|PSD13\_BOVIN  
sp|Q5E971|TMEDA\_BOVIN  
sp|Q5E973|RL18\_BOVIN;tr|A0A452DIR2|A0A452DIR2\_BOVIN;tr|A0A3Q1M9B  
sp|Q5E983|EF1B\_BOVIN;tr|A0A3Q1LLH1|A0A3Q1LLH1\_BOVIN  
sp|Q5E984|TCTP\_BOVIN;tr|A0A452DID1|A0A452DID1\_BOVIN  
sp|Q5E987|PSA5\_BOVIN  
sp|Q5E988|RS5\_BOVIN;tr|A0A3Q1MID4|A0A3Q1MID4\_BOVIN  
sp|Q5E995|RS6\_BOVIN;tr|A0A3Q1N412|A0A3Q1N412\_BOVIN;tr|A0A3Q1NAF9|  
sp|Q5E997|CAZA2\_BOVIN;tr|A0A3Q1M698|A0A3Q1M698\_BOVIN;tr|A0A3Q1LX  
sp|Q5E9A1|NACA\_BOVIN  
sp|Q5E9A3|PCBP1\_BOVIN;tr|A0A452DKH0|A0A452DKH0\_BOVIN;tr|A0A3Q1MT  
tr|A0A3Q1M5R4|A0A3Q1M5R4\_BOVIN;sp|Q5E9B1|LDHB\_BOVIN;tr|A0A3Q1M4  
sp|Q5E9B7|CLIC1\_BOVIN  
tr|A0A3Q1MHV0|A0A3Q1MHV0\_BOVIN;sp|Q5E9C2|DAD1\_BOVIN  
tr|A0A140T862|A0A140T862\_BOVIN;tr|A0A3Q1LQI5|A0A3Q1LQI5\_BOVIN;sp|Q  
sp|Q5E9D3|MIC19\_BOVIN

tr|A0A452DHL8|A0A452DHL8\_BOVIN;sp|Q5E9D6|HDHD3\_BOVIN  
tr|A6H7E3|A6H7E3\_BOVIN;sp|Q5E9E1|PDLI1\_BOVIN  
sp|Q5E9E6|RL10A\_BOVIN;tr|G3X7N2|G3X7N2\_BOVIN;tr|A0A3Q1M6E4|A0A3Q  
sp|Q5E9F5|TAGL2\_BOVIN;tr|A0A452DI04|A0A452DI04\_BOVIN;tr|A0A3Q1MWG  
sp|Q5E9F7|COF1\_BOVIN  
sp|Q5E9F9|PRS7\_BOVIN  
sp|Q5E9G0|GSTA4\_BOVIN;tr|A0A3Q1M0K8|A0A3Q1M0K8\_BOVIN;tr|A0A3Q1M1  
tr|A0A3Q1N568|A0A3Q1N568\_BOVIN;sp|Q5E9G3|PSME2\_BOVIN;tr|F1MU19|F  
sp|Q5E9J1|HNRPF\_BOVIN  
sp|Q5E9J5|DHCR7\_BOVIN  
sp|Q5E9K0|PSB2\_BOVIN;tr|A0A452DHV9|A0A452DHV9\_BOVIN  
sp|Q5E9K3|PNPO\_BOVIN  
sp|Q5E9M1|PRAF3\_BOVIN  
sp|Q5E9M8|SFXN1\_BOVIN;tr|A0A3Q1NB55|A0A3Q1NB55\_BOVIN;tr|A0A3Q1N6  
sp|Q5E9P9|GLYC\_BOVIN;tr|A0A140T896|A0A140T896\_BOVIN;tr|A0A3Q1LKF4  
tr|A0A3Q1LS18|A0A3Q1LS18\_BOVIN;tr|A0A3Q1LJQ9|A0A3Q1LJQ9\_BOVIN;sp|Q  
sp|Q5E9T9|RTCB\_BOVIN  
sp|Q5E9X4|LRC59\_BOVIN  
sp|Q5EA20|HPPD\_BOVIN;tr|A0A3Q1N2P4|A0A3Q1N2P4\_BOVIN;tr|A0A3Q1LG5  
sp|Q5EA42|ABHD2\_BOVIN  
sp|Q5EA61|KCRB\_BOVIN  
sp|Q5EA79|GALM\_BOVIN  
sp|Q5EA88|GPDA\_BOVIN;tr|A0A452DJJ3|A0A452DJJ3\_BOVIN;tr|A0A3Q1M9X  
tr|A0A140T850|A0A140T850\_BOVIN;sp|Q5EAC2|GSHB\_BOVIN  
sp|Q5EAD2|SERA\_BOVIN  
tr|E1BK63|E1BK63\_BOVIN;tr|A0A3Q1LST0|A0A3Q1LST0\_BOVIN;sp|Q5EAD6|R  
sp|Q5I597|BHMT1\_BOVIN;tr|A0A452DHV7|A0A452DHV7\_BOVIN;tr|A0A3Q1ND  
sp|Q5KR47|TPM3\_BOVIN;tr|A0A3Q1LTF6|A0A3Q1LTF6\_BOVIN;tr|A0A3Q1MKG  
tr|A0A452DIP7|A0A452DIP7\_BOVIN;sp|Q66LN0|PGES2\_BOVIN;tr|A0A3Q1LFK5  
sp|Q6B4J2|VKOR1\_BOVIN  
sp|Q6B855|TKT\_BOVIN  
tr|E1BJB1|E1BJB1\_BOVIN;sp|Q6B856|TBB2B\_BOVIN;tr|A0A452DIL8|A0A452DI  
sp|Q6EWQ7|IF5A1\_BOVIN;tr|F1MN49|F1MN49\_BOVIN  
tr|F1MIH2|F1MIH2\_BOVIN;tr|F1MBT8|F1MBT8\_BOVIN;sp|Q6Q137|SEPT7\_BOV  
sp|Q6QRN6|NNRE\_BOVIN;tr|A0A3Q1MF13|A0A3Q1MF13\_BOVIN  
sp|Q76I81|RS12\_BOVIN;tr|A0A3Q1LSF9|A0A3Q1LSF9\_BOVIN;tr|A0A3Q1M0C  
tr|G3N206|G3N206\_BOVIN;tr|E1BLY1|E1BLY1\_BOVIN;sp|Q76I82|RS15A\_BOV  
sp|Q76LV1|HS90B\_BOVIN;tr|G5E507|G5E507\_BOVIN;tr|G3N2V5|G3N2V5\_BOV  
sp|Q76LV2|HS90A\_BOVIN;tr|A0A452DI85|A0A452DI85\_BOVIN;tr|A0A3Q1MBX  
sp|Q7SIH1|A2MG\_BOVIN;CON\_\_ENSEMBL:ENSBTAP00000024146;tr|A0A452DI  
sp|Q862I1|RL24\_BOVIN  
sp|Q863B3|SND1\_BOVIN;tr|A0A3Q1MBN7|A0A3Q1MBN7\_BOVIN  
tr|A0A3Q1MDS0|A0A3Q1MDS0\_BOVIN;sp|Q865V6|CAPG\_BOVIN;tr|A0A3Q1N6  
tr|F1MQF6|F1MQF6\_BOVIN;sp|Q8HXK9|ASC\_BOVIN  
sp|Q8HYJ9|FMO3\_BOVIN;tr|A0A3Q1LWL7|A0A3Q1LWL7\_BOVIN;tr|Q3SZW0|Q3  
sp|Q8SPP7|PGRP1\_BOVIN;tr|A0A3Q1LPB6|A0A3Q1LPB6\_BOVIN  
tr|F1MZD5|F1MZD5\_BOVIN;sp|Q8SPU8|DHRS4\_BOVIN  
sp|Q8SPX7|CRYL1\_BOVIN;tr|A0A3Q1MBW0|A0A3Q1MBW0\_BOVIN

tr|A0A3Q1M4I4|A0A3Q1M4I4\_BOVIN;sp|Q8SQ21|HINT2\_BOVIN;tr|A0A3Q1MX  
tr|Q17QS8|Q17QS8\_BOVIN;sp|Q8WMV1|ERG24\_BOVIN;tr|A0A3Q1LQ18|A0A3C  
tr|F1N431|F1N431\_BOVIN;sp|Q8WMY2|FPPS\_BOVIN;tr|A0A3Q1MUP6|A0A3Q1  
sp|Q8WN55|PTBP1\_BOVIN;tr|A0A3Q1M994|A0A3Q1M994\_BOVIN;tr|A8YXY5|A  
sp|Q92176|COR1A\_BOVIN  
sp|Q95140|RLA0\_BOVIN;tr|F1MDN4|F1MDN4\_BOVIN  
sp|Q95KV7|INDUAD\_BOVIN  
tr|A0A140T8D4|A0A140T8D4\_BOVIN;sp|Q95M12|LGMM\_BOVIN  
sp|Q95M18|ENPL\_BOVIN  
sp|Q9BEA2|ACSM1\_BOVIN  
sp|Q9BGI1|PRDX5\_BOVIN  
tr|A0A3Q1LW10|A0A3Q1LW10\_BOVIN;tr|A0A452DI43|A0A452DI43\_BOVIN;sp|  
sp|Q9BGI3|PRDX2\_BOVIN  
tr|A0A3Q1LRU0|A0A3Q1LRU0\_BOVIN;tr|A0A3Q1MYV7|A0A3Q1MYV7\_BOVIN;sp|  
sp|Q9GMB8|SYSC\_BOVIN  
tr|A0A3Q1MES8|A0A3Q1MES8\_BOVIN;sp|Q9MYP6|DHB14\_BOVIN  
tr|A0A3Q1LHM2|A0A3Q1LHM2\_BOVIN;sp|Q9MZ13|VDAC3\_BOVIN;tr|F6RQ58|F  
sp|Q9N0V4|GSTM1\_BOVIN;tr|A0A3Q1MQV0|A0A3Q1MQV0\_BOVIN;tr|A0A3Q1N  
tr|A0A3Q1M143|A0A3Q1M143\_BOVIN;tr|A0A3S5ZPB1|A0A3S5ZPB1\_BOVIN;sp  
sp|Q9TRY0|FKBP4\_BOVIN;tr|F1MU79|F1MU79\_BOVIN  
sp|Q9TS87|TAGL\_BOVIN  
sp|Q9TTJ5|RGN\_BOVIN;tr|A0A3Q1MLX2|A0A3Q1MLX2\_BOVIN  
sp|Q9TTK6|AOC3\_BOVIN;tr|E1BD43|E1BD43\_BOVIN;sp|O46406|AOCY\_BOVIN  
sp|Q9TU03|GDIR2\_BOVIN;tr|A0A452DIS6|A0A452DIS6\_BOVIN  
sp|Q9XSA7|CLIC4\_BOVIN;tr|A2VE46|A2VE46\_BOVIN  
sp|Q9XSI3|RL10\_BOVIN;tr|A0A452DIW1|A0A452DIW1\_BOVIN;sp|Q2TBW8|RL  
sp|Q9XSJ4|ENOA\_BOVIN;tr|F1MB08|F1MB08\_BOVIN;tr|A0A3Q1MXQ0|A0A3Q1M  
tr|Q08E18|Q08E18\_BOVIN;sp|Q9XSK7|HDGF\_BOVIN;tr|A0A3Q1M0D3|A0A3Q1  
tr|A0A088QMV3|A0A088QMV3\_BOVIN;tr|A0A3Q1MPS1|A0A3Q1MPS1\_BOVIN  
tr|F2Z4J1|F2Z4J1\_BOVIN;tr|F2Z4G5|F2Z4G5\_BOVIN;tr|A4IFU5|A4IFU5\_BOVIN  
tr|A0A0A0MP92|A0A0A0MP92\_BOVIN;sp|A2I7N3|SPA37\_BOVIN;CON\_\_A2I7N3  
tr|A0A140T832|A0A140T832\_BOVIN;sp|A5PK63|RS17\_BOVIN  
tr|A0A140T837|A0A140T837\_BOVIN;sp|P56560|AOFB\_BOVIN;sp|P21398|AOFA  
tr|A0A140T842|A0A140T842\_BOVIN;tr|A0A3Q1LU64|A0A3Q1LU64\_BOVIN;sp|  
tr|A0A140T854|A0A140T854\_BOVIN;sp|Q28035|GSTA1\_BOVIN;tr|A0A3Q1MEC  
tr|A0A140T871|A0A140T871\_BOVIN;sp|P00366|DHE3\_BOVIN  
tr|A0A140T874|A0A140T874\_BOVIN;sp|Q0P5F9|AL8A1\_BOVIN  
tr|A0A140T892|A0A140T892\_BOVIN;sp|P51176|TGM2\_BOVIN;tr|A0A3Q1MI90  
tr|A0A3Q1M0V8|A0A3Q1M0V8\_BOVIN;tr|A0A140T8A4|A0A140T8A4\_BOVIN;sp  
tr|A0A140T8A5|A0A140T8A5\_BOVIN;sp|Q9XSG3|IDHC\_BOVIN  
tr|A0A3Q1LFC5|A0A3Q1LFC5\_BOVIN;tr|A7Z066|A7Z066\_BOVIN  
tr|A0A3Q1LFQ2|A0A3Q1LFQ2\_BOVIN  
tr|A0A3Q1LFR2|A0A3Q1LFR2\_BOVIN  
tr|A0A3Q1M5C0|A0A3Q1M5C0\_BOVIN;tr|A0A3Q1N0N4|A0A3Q1N0N4\_BOVIN;t  
tr|A0A3Q1LG95|A0A3Q1LG95\_BOVIN;tr|A7Z038|A7Z038\_BOVIN  
tr|A0A3Q1LGQ8|A0A3Q1LGQ8\_BOVIN;tr|A0A3Q1M1R3|A0A3Q1M1R3\_BOVIN;t  
tr|A0A3Q1LGY9|A0A3Q1LGY9\_BOVIN  
tr|A0A3Q1LHT7|A0A3Q1LHT7\_BOVIN;tr|F1MDC1|F1MDC1\_BOVIN

tr|A0A3Q1LHX4|A0A3Q1LHX4\_BOVIN;tr|A0A3Q1MJF5|A0A3Q1MJF5\_BOVIN;tr|  
tr|A0A3Q1LLB2|A0A3Q1LLB2\_BOVIN;tr|A0A3Q1M6S3|A0A3Q1M6S3\_BOVIN;tr|  
tr|A0A3Q1LIB4|A0A3Q1LIB4\_BOVIN;tr|A0A3Q1MN97|A0A3Q1MN97\_BOVIN;tr  
tr|A0A3Q1LID6|A0A3Q1LID6\_BOVIN;tr|E1BMY1|E1BMY1\_BOVIN  
tr|A0A3Q1LII6|A0A3Q1LII6\_BOVIN;tr|F1MFB7|F1MFB7\_BOVIN  
tr|A0A3Q1N5A6|A0A3Q1N5A6\_BOVIN;tr|A0A3Q1N1W0|A0A3Q1N1W0\_BOVIN;t  
tr|A0A3Q1M1X4|A0A3Q1M1X4\_BOVIN;tr|A0A3Q1LTF1|A0A3Q1LTF1\_BOVIN;tr|  
tr|A0A3Q1N8I6|A0A3Q1N8I6\_BOVIN;tr|F1N605|F1N605\_BOVIN;tr|A0A3Q1M9  
tr|A0A3Q1LJG6|A0A3Q1LJG6\_BOVIN  
tr|A0A3Q1MNY2|A0A3Q1MNY2\_BOVIN;tr|A0A3Q1LJJ0|A0A3Q1LJJ0\_BOVIN;tr|E  
tr|G3N2G7|G3N2G7\_BOVIN;tr|G3MY44|G3MY44\_BOVIN;tr|A0A3Q1LSK2|A0A3C  
tr|A0A3Q1LXK9|A0A3Q1LXK9\_BOVIN;tr|A0A3Q1MQG2|A0A3Q1MQG2\_BOVIN;t  
tr|A0A3Q1LJX0|A0A3Q1LJX0\_BOVIN;tr|F1MJ59|F1MJ59\_BOVIN;tr|A0A3Q1N1V2  
tr|A0A3Q1M3S6|A0A3Q1M3S6\_BOVIN;tr|F1N2P6|F1N2P6\_BOVIN;tr|A0A3Q1LK  
tr|A0A3Q1LKV8|A0A3Q1LKV8\_BOVIN;tr|F1MLV3|F1MLV3\_BOVIN;tr|A0A3Q1M  
tr|A0A3Q1LKY3|A0A3Q1LKY3\_BOVIN;tr|A0A3Q1M7T0|A0A3Q1M7T0\_BOVIN  
tr|A0A3Q1LL35|A0A3Q1LL35\_BOVIN  
tr|A0A3Q1LZ84|A0A3Q1LZ84\_BOVIN;tr|A0A3Q1MQD5|A0A3Q1MQD5\_BOVIN;t  
tr|A5D788|A5D788\_BOVIN;tr|A0A3Q1LM94|A0A3Q1LM94\_BOVIN  
tr|A0A3Q1LMA6|A0A3Q1LMA6\_BOVIN;tr|A0A3S5ZP51|A0A3S5ZP51\_BOVIN  
tr|A0A3Q1MDD4|A0A3Q1MDD4\_BOVIN;tr|A0A3Q1LMC1|A0A3Q1LMC1\_BOVIN;  
tr|A0A3Q1LMM3|A0A3Q1LMM3\_BOVIN;tr|A5PJV5|A5PJV5\_BOVIN;sp|P27718|D  
tr|A0A3Q1LMP2|A0A3Q1LMP2\_BOVIN;tr|E1BMX0|E1BMX0\_BOVIN;tr|A5D7R9|  
tr|A0A3Q1NLJ8|A0A3Q1NLJ8\_BOVIN;tr|A0A3Q1LV88|A0A3Q1LV88\_BOVIN;tr|  
tr|A0A3Q1LMV3|A0A3Q1LMV3\_BOVIN;tr|E1BKY3|E1BKY3\_BOVIN  
tr|A0A3Q1LMV9|A0A3Q1LMV9\_BOVIN  
tr|A0A3Q1LN22|A0A3Q1LN22\_BOVIN;sp|Q07536|MMSA\_BOVIN;tr|F1N7K8|F1N  
tr|A0A3Q1LN69|A0A3Q1LN69\_BOVIN;tr|Q2TA04|Q2TA04\_BOVIN  
tr|A0A3Q1LNE9|A0A3Q1LNE9\_BOVIN;tr|Q3ZBS7|Q3ZBS7\_BOVIN;CON\_\_Q3ZBS  
tr|E1B8N6|E1B8N6\_BOVIN;tr|A7YY47|A7YY47\_BOVIN;tr|A0A3Q1LNG7|A0A3Q1  
tr|F1N5J8|F1N5J8\_BOVIN;tr|A0A3Q1LNW7|A0A3Q1LNW7\_BOVIN  
tr|A0A3Q1LPG0|A0A3Q1LPG0\_BOVIN  
tr|A0A3Q1M9M4|A0A3Q1M9M4\_BOVIN;tr|F1N1T3|F1N1T3\_BOVIN;tr|A0A3Q1M  
tr|A0A3Q1LPH5|A0A3Q1LPH5\_BOVIN  
tr|F1MSQ9|F1MSQ9\_BOVIN;tr|A0A3Q1MVE5|A0A3Q1MVE5\_BOVIN;tr|A0A3Q1L  
tr|A0A3Q1LPX4|A0A3Q1LPX4\_BOVIN;tr|F6RJG0|F6RJG0\_BOVIN  
tr|A0A3Q1LPY1|A0A3Q1LPY1\_BOVIN;tr|A0A3Q1M2V4|A0A3Q1M2V4\_BOVIN;tr  
tr|A0A3Q1M0T4|A0A3Q1M0T4\_BOVIN;tr|A0A3Q1MU31|A0A3Q1MU31\_BOVIN;t  
tr|A0A3Q1MQ74|A0A3Q1MQ74\_BOVIN;tr|G3X755|G3X755\_BOVIN;tr|A0A3Q1L  
tr|A0A3Q1LQM4|A0A3Q1LQM4\_BOVIN;tr|F1MCU4|F1MCU4\_BOVIN;tr|A0A3Q1L  
tr|Q0P5G9|Q0P5G9\_BOVIN;tr|A0A3Q1LQN6|A0A3Q1LQN6\_BOVIN  
tr|A0A3Q1LQZ4|A0A3Q1LQZ4\_BOVIN;tr|A0A3Q1MS46|A0A3Q1MS46\_BOVIN;t  
tr|F1N301|F1N301\_BOVIN;tr|A0A3Q1LR67|A0A3Q1LR67\_BOVIN  
tr|A0A3Q1LW23|A0A3Q1LW23\_BOVIN;tr|A0A3Q1LRD6|A0A3Q1LRD6\_BOVIN;tr  
tr|A0A3Q1NGI1|A0A3Q1NGI1\_BOVIN;tr|A0A3Q1LRL7|A0A3Q1LRL7\_BOVIN;sp|  
tr|A0A3Q1LRN7|A0A3Q1LRN7\_BOVIN;tr|F1MM13|F1MM13\_BOVIN  
tr|A0A3Q1LRU3|A0A3Q1LRU3\_BOVIN;tr|Q3ZBW6|Q3ZBW6\_BOVIN  
tr|A0A3Q1LRY6|A0A3Q1LRY6\_BOVIN;tr|E1B8K6|E1B8K6\_BOVIN;tr|G3X7M4|G

tr|A0A3Q1LS06|A0A3Q1LS06\_BOVIN  
tr|A0A3Q1LS09|A0A3Q1LS09\_BOVIN;tr|Q3SX36|Q3SX36\_BOVIN  
tr|A0A3Q1LS67|A0A3Q1LS67\_BOVIN;tr|F6PRB5|F6PRB5\_BOVIN  
tr|A0A3Q1LSN0|A0A3Q1LSN0\_BOVIN;tr|F1MYX5|F1MYX5\_BOVIN  
tr|A0A3Q1LSS0|A0A3Q1LSS0\_BOVIN;tr|F1MET0|F1MET0\_BOVIN  
tr|A0A3Q1LT60|A0A3Q1LT60\_BOVIN  
tr|F1MSE4|F1MSE4\_BOVIN;tr|A0A3Q1LWY0|A0A3Q1LWY0\_BOVIN;tr|A0A3Q1M  
tr|A0A3Q1LTX4|A0A3Q1LTX4\_BOVIN;tr|F1MLW0|F1MLW0\_BOVIN;sp|Q27976|  
tr|E1BF20|E1BF20\_BOVIN;tr|A0A3Q1LU71|A0A3Q1LU71\_BOVIN;tr|A0A3Q1MI  
tr|A0A3Q1LU84|A0A3Q1LU84\_BOVIN;tr|F6QN80|F6QN80\_BOVIN  
tr|A0A3Q1LU90|A0A3Q1LU90\_BOVIN;tr|A0A3Q1MR68|A0A3Q1MR68\_BOVIN;t  
tr|A4FUZ3|A4FUZ3\_BOVIN;tr|A0A3Q1LUA4|A0A3Q1LUA4\_BOVIN  
tr|A0A3Q1LWV8|A0A3Q1LWV8\_BOVIN;tr|A0A3Q1LUE9|A0A3Q1LUE9\_BOVIN  
tr|G3MZ54|G3MZ54\_BOVIN;tr|A0A3Q1NG34|A0A3Q1NG34\_BOVIN;tr|A0A3Q1  
tr|A0A3Q1LUG9|A0A3Q1LUG9\_BOVIN;tr|F1MKS3|F1MKS3\_BOVIN  
tr|G3N1Q0|G3N1Q0\_BOVIN;tr|A0A3Q1NCP7|A0A3Q1NCP7\_BOVIN;tr|A0A3Q1L  
tr|A0A3Q1LYL5|A0A3Q1LYL5\_BOVIN;tr|A0A3Q1LUQ7|A0A3Q1LUQ7\_BOVIN;tr  
tr|E1BAN2|E1BAN2\_BOVIN;tr|A0A3Q1LUR7|A0A3Q1LUR7\_BOVIN  
tr|A0A3Q1MNM7|A0A3Q1MNM7\_BOVIN;tr|A0A3Q1MB68|A0A3Q1MB68\_BOVIN  
tr|A0A3Q1LUX3|A0A3Q1LUX3\_BOVIN;tr|A0A3Q1LVL7|A0A3Q1LVL7\_BOVIN;tr|  
tr|E1BEN4|E1BEN4\_BOVIN;tr|A0A3Q1LUY6|A0A3Q1LUY6\_BOVIN;tr|A0A3Q1LU  
tr|G5E5T1|G5E5T1\_BOVIN;tr|A0A3Q1LV39|A0A3Q1LV39\_BOVIN  
tr|A6QQT4|A6QQT4\_BOVIN;tr|A0A3Q1M722|A0A3Q1M722\_BOVIN;tr|A0A3Q1L  
tr|A0A3Q1LV94|A0A3Q1LV94\_BOVIN;tr|A0A3Q1MU95|A0A3Q1MU95\_BOVIN;t  
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tr|A0A3Q1LWZ2|A0A3Q1LWZ2\_BOVIN  
tr|A0A3Q1LXA8|A0A3Q1LXA8\_BOVIN;tr|A0A3Q1LQV8|A0A3Q1LQV8\_BOVIN;tr|  
tr|A0A3Q1MAV9|A0A3Q1MAV9\_BOVIN;tr|A0A3Q1MY36|A0A3Q1MY36\_BOVIN;t  
tr|G5E5V6|G5E5V6\_BOVIN;tr|A0A3Q1LY29|A0A3Q1LY29\_BOVIN;tr|A0A3Q1MA  
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tr|A0A3Q1LYI6|A0A3Q1LYI6\_BOVIN;tr|F1MXX0|F1MXX0\_BOVIN;tr|A0A3Q1MF  
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tr|A0A3Q1LYU5|A0A3Q1LYU5\_BOVIN  
tr|Q08DN5|Q08DN5\_BOVIN;tr|A0A3Q1LYY4|A0A3Q1LYY4\_BOVIN;tr|A0A3Q1M  
tr|A0A3Q1LZ03|A0A3Q1LZ03\_BOVIN  
tr|F1MFZ8|F1MFZ8\_BOVIN;tr|A0A3Q1M1H2|A0A3Q1M1H2\_BOVIN;tr|A0A3Q1L  
tr|A0A3Q1LZ47|A0A3Q1LZ47\_BOVIN;tr|Q2HJ65|Q2HJ65\_BOVIN;tr|Q1LZ92|Q1  
tr|Q3ZC44|Q3ZC44\_BOVIN;tr|A0A3Q1LZD9|A0A3Q1LZD9\_BOVIN  
tr|A0A3Q1LZQ4|A0A3Q1LZQ4\_BOVIN;tr|E1BAX6|E1BAX6\_BOVIN;tr|A0A3Q1N  
tr|A0A3Q1LZU8|A0A3Q1LZU8\_BOVIN;tr|F1N6Y1|F1N6Y1\_BOVIN;tr|A0A3Q1N1  
tr|G3MWK1|G3MWK1\_BOVIN;tr|A0A3Q1LZW1|A0A3Q1LZW1\_BOVIN  
tr|A0A3Q1M071|A0A3Q1M071\_BOVIN  
tr|Q58CX1|Q58CX1\_BOVIN;tr|A0A3Q1M1I6|A0A3Q1M1I6\_BOVIN;tr|Q0V7N7|Q  
tr|A0A3Q1MDT7|A0A3Q1MDT7\_BOVIN;tr|A0A3Q1M1Z1|A0A3Q1M1Z1\_BOVIN

tr|A0A3Q1N427|A0A3Q1N427\_BOVIN;tr|G5E5R0|G5E5R0\_BOVIN;tr|A0A3Q1M2  
tr|F1MJ80|F1MJ80\_BOVIN;tr|A0A3Q1M241|A0A3Q1M241\_BOVIN  
tr|E1BN59|E1BN59\_BOVIN;tr|A0A3Q1M294|A0A3Q1M294\_BOVIN  
tr|A0A3Q1M2H4|A0A3Q1M2H4\_BOVIN;tr|F1N441|F1N441\_BOVIN;sp|A6QR56|  
tr|A0A3Q1M4S0|A0A3Q1M4S0\_BOVIN;tr|A0A3Q1MCP0|A0A3Q1MCP0\_BOVIN;t  
tr|F1MJQ1|F1MJQ1\_BOVIN;tr|A0A3Q1M3K7|A0A3Q1M3K7\_BOVIN;sp|Q3T0F5|  
tr|A0A3Q1M3L6|A0A3Q1M3L6\_BOVIN  
tr|F1MMR6|F1MMR6\_BOVIN;tr|A0A3Q1M3Z5|A0A3Q1M3Z5\_BOVIN;sp|P80209|  
tr|A0A3Q1M423|A0A3Q1M423\_BOVIN  
tr|A0A3Q1M4V7|A0A3Q1M4V7\_BOVIN;tr|A0A3Q1LQU9|A0A3Q1LQU9\_BOVIN;ti  
tr|E1BNJ0|E1BNJ0\_BOVIN;tr|A0A3Q1M5C4|A0A3Q1M5C4\_BOVIN  
tr|A0A3Q1M5S5|A0A3Q1M5S5\_BOVIN  
tr|A4IF72|A4IF72\_BOVIN;tr|A0A3Q1M6B6|A0A3Q1M6B6\_BOVIN  
tr|A0A3Q1N7S2|A0A3Q1N7S2\_BOVIN;tr|A0A3Q1NLM6|A0A3Q1NLM6\_BOVIN;tr  
tr|A0A3Q1M6S8|A0A3Q1M6S8\_BOVIN;tr|F1MMR5|F1MMR5\_BOVIN;tr|A0A3Q1M  
tr|A0A3Q1M7J8|A0A3Q1M7J8\_BOVIN;tr|A0A3Q1NG39|A0A3Q1NG39\_BOVIN  
tr|Q0IIA3|Q0IIA3\_BOVIN;tr|A0A3Q1M7S5|A0A3Q1M7S5\_BOVIN;tr|F6QQY9|F6Q  
tr|A0A3Q1M7V2|A0A3Q1M7V2\_BOVIN;tr|A0A3Q1MGG8|A0A3Q1MGG8\_BOVIN  
tr|A0A3Q1MFN6|A0A3Q1MFN6\_BOVIN;tr|E1BM27|E1BM27\_BOVIN;tr|A0A3Q  
tr|A0A3Q1M857|A0A3Q1M857\_BOVIN;tr|A0A3Q1MRL0|A0A3Q1MRL0\_BOVIN;  
tr|A5D9H5|A5D9H5\_BOVIN;tr|A6H6Y0|A6H6Y0\_BOVIN;tr|A0A3Q1M8I4|A0A3Q1  
tr|A0A3Q1M930|A0A3Q1M930\_BOVIN;tr|E1B748|E1B748\_BOVIN;tr|A0A3Q1M  
tr|F6QGM3|F6QGM3\_BOVIN;tr|A0A3Q1M9D2|A0A3Q1M9D2\_BOVIN  
tr|A0A3Q1M9D9|A0A3Q1M9D9\_BOVIN;tr|E1B7U1|E1B7U1\_BOVIN  
tr|A0A3Q1M9N4|A0A3Q1M9N4\_BOVIN;tr|A0A3Q1MAR2|A0A3Q1MAR2\_BOVIN;tr  
tr|A0A3Q1MA50|A0A3Q1MA50\_BOVIN  
tr|A0A3Q1MAF9|A0A3Q1MAF9\_BOVIN;tr|Q1RMI4|Q1RMI4\_BOVIN  
tr|A0A3Q1MB39|A0A3Q1MB39\_BOVIN;tr|F1N468|F1N468\_BOVIN;tr|A0A3Q1LT  
tr|F1MCH2|F1MCH2\_BOVIN;tr|A0A3Q1MB81|A0A3Q1MB81\_BOVIN  
tr|A0A3Q1MBF3|A0A3Q1MBF3\_BOVIN  
tr|G8JL06|G8JL06\_BOVIN;tr|A0A3Q1MEU7|A0A3Q1MEU7\_BOVIN;tr|A0A3Q1MB  
tr|A0A3Q1MBS5|A0A3Q1MBS5\_BOVIN;tr|A0A3Q1MPS4|A0A3Q1MPS4\_BOVIN;s  
tr|A0A3Q1MCG3|A0A3Q1MCG3\_BOVIN;sp|Q05927|J5NTD\_BOVIN  
tr|G3MY67|G3MY67\_BOVIN;tr|A0A3Q1MCH3|A0A3Q1MCH3\_BOVIN;sp|P31039|  
tr|A0A3Q1MCH6|A0A3Q1MCH6\_BOVIN;tr|A5PK96|A5PK96\_BOVIN;sp|P11064|P  
tr|A0A3Q1MCJ7|A0A3Q1MCJ7\_BOVIN;tr|Q3T076|Q3T076\_BOVIN;tr|A0A3Q1M  
tr|A0A3Q1MCV0|A0A3Q1MCV0\_BOVIN;tr|Q32S21|Q32S21\_BOVIN  
tr|A0A3Q1NCG2|A0A3Q1NCG2\_BOVIN;tr|A0A3Q1MFI3|A0A3Q1MFI3\_BOVIN;tr  
tr|A0A3Q1MDN0|A0A3Q1MDN0\_BOVIN  
tr|F1N1Z7|F1N1Z7\_BOVIN;tr|A0A3Q1MDS5|A0A3Q1MDS5\_BOVIN;sp|Q8HYZ4|  
tr|Q3T0U3|Q3T0U3\_BOVIN;tr|A0A3Q1MDT8|A0A3Q1MDT8\_BOVIN  
tr|A0A3S5ZPJ6|A0A3S5ZPJ6\_BOVIN;tr|E1BPP7|E1BPP7\_BOVIN;tr|A0A3Q1ME6  
tr|A0A3Q1MHE9|A0A3Q1MHE9\_BOVIN;tr|A0A3Q1MEJ4|A0A3Q1MEJ4\_BOVIN;tr  
tr|A0A3Q1N9U5|A0A3Q1N9U5\_BOVIN;tr|A0A3Q1MEQ0|A0A3Q1MEQ0\_BOVIN  
tr|A0A3Q1MF67|A0A3Q1MF67\_BOVIN;tr|E1BB17|E1BB17\_BOVIN;tr|G3MYE8|G  
tr|A0A3Q1MF86|A0A3Q1MF86\_BOVIN;tr|F2Z4F0|F2Z4F0\_BOVIN  
tr|F1MX83|F1MX83\_BOVIN;tr|A0A3Q1MFC3|A0A3Q1MFC3\_BOVIN  
tr|E1BGS2|E1BGS2\_BOVIN;tr|A0A3Q1MFK8|A0A3Q1MFK8\_BOVIN;tr|A0A3Q1

tr|C3V9V7|C3V9V7\_BOVIN;tr|A0A3Q1MFR6|A0A3Q1MFR6\_BOVIN  
tr|A0A3Q1N8X4|A0A3Q1N8X4\_BOVIN;tr|F1MWX8|F1MWX8\_BOVIN;tr|A0A3Q1M  
tr|A0A3Q1MG42|A0A3Q1MG42\_BOVIN;tr|F1MYM9|F1MYM9\_BOVIN;tr|A6QLN6  
tr|A0A3Q1MGZ4|A0A3Q1MGZ4\_BOVIN;tr|A0JN77|A0JN77\_BOVIN;sp|Q58DK4|T  
tr|F1N3S5|F1N3S5\_BOVIN;tr|A0A3Q1MH43|A0A3Q1MH43\_BOVIN  
tr|A0A3Q1MH78|A0A3Q1MH78\_BOVIN;tr|A0A3Q1N3G2|A0A3Q1N3G2\_BOVIN;:  
tr|A0A3Q1MHT0|A0A3Q1MHT0\_BOVIN;tr|A0A3Q1NE82|A0A3Q1NE82\_BOVIN;tr  
tr|A0A3Q1MHX8|A0A3Q1MHX8\_BOVIN;tr|A0A3Q1MJU0|A0A3Q1MJU0\_BOVIN  
tr|A0A3Q1MI13|A0A3Q1MI13\_BOVIN;tr|F6PWM7|F6PWM7\_BOVIN  
tr|A0A3Q1MI29|A0A3Q1MI29\_BOVIN  
tr|A0A3Q1MI34|A0A3Q1MI34\_BOVIN;tr|F1N579|F1N579\_BOVIN  
tr|A0A3Q1MIB0|A0A3Q1MIB0\_BOVIN;tr|F1MC48|F1MC48\_BOVIN  
tr|F1MRL5|F1MRL5\_BOVIN;tr|A0A3Q1MIN6|A0A3Q1MIN6\_BOVIN  
tr|A0A3Q1MKT0|A0A3Q1MKT0\_BOVIN;tr|A0A3Q1N6S6|A0A3Q1N6S6\_BOVIN;tr  
tr|F1MY44|F1MY44\_BOVIN;tr|A0A3Q1MJD5|A0A3Q1MJD5\_BOVIN;tr|F1MYI2|F1  
tr|A0A3Q1MJK1|A0A3Q1MJK1\_BOVIN;sp|O02739|SPB6\_BOVIN;tr|F1N0T3|F1N  
tr|Q3ZC83|Q3ZC83\_BOVIN;tr|A0A3Q1MJQ0|A0A3Q1MJQ0\_BOVIN;tr|F6PZI3|F6F  
tr|A0A3Q1MJX5|A0A3Q1MJX5\_BOVIN  
tr|A0A3Q1MK64|A0A3Q1MK64\_BOVIN;tr|E1B717|E1B717\_BOVIN  
tr|A0A3Q1MSP0|A0A3Q1MSP0\_BOVIN;tr|G3X6L9|G3X6L9\_BOVIN;tr|A0A3Q1M  
tr|A0A3Q1MKT2|A0A3Q1MKT2\_BOVIN  
tr|A0A3Q1MKY2|A0A3Q1MKY2\_BOVIN  
tr|F1MDH3|F1MDH3\_BOVIN;tr|A0A3Q1MLQ7|A0A3Q1MLQ7\_BOVIN;tr|A0A3Q1  
tr|F1MLE8|F1MLE8\_BOVIN;tr|A0A3Q1MMA1|A0A3Q1MMA1\_BOVIN  
tr|A0A3Q1MME4|A0A3Q1MME4\_BOVIN;sp|Q2HJ60|ROA2\_BOVIN;tr|A0A3Q1MJF  
tr|A0A3Q1MN33|A0A3Q1MN33\_BOVIN;tr|A0A3Q1LUC8|A0A3Q1LUC8\_BOVIN;tr  
tr|F1MZC0|F1MZC0\_BOVIN;tr|A0A3Q1MNN2|A0A3Q1MNN2\_BOVIN;tr|A0A3Q  
tr|F1N5Q0|F1N5Q0\_BOVIN;tr|E1BJ78|E1BJ78\_BOVIN;tr|A0A3Q1MP36|A0A3Q1M  
tr|A0A3Q1MPG8|A0A3Q1MPG8\_BOVIN;tr|F1MZP0|F1MZP0\_BOVIN  
tr|A0A3Q1MQ34|A0A3Q1MQ34\_BOVIN;tr|A0A3Q1M0Y7|A0A3Q1M0Y7\_BOVIN;t  
tr|A0A3Q1MQB1|A0A3Q1MQB1\_BOVIN;tr|Q2TBR3|Q2TBR3\_BOVIN  
tr|A0A3Q1MQJ1|A0A3Q1MQJ1\_BOVIN;tr|A0A3S5ZPA1|A0A3S5ZPA1\_BOVIN;tr|  
tr|Q9TUQ0|Q9TUQ0\_BOVIN;tr|A0A3Q1MR36|A0A3Q1MR36\_BOVIN;tr|Q9XSW5|  
tr|F1MXU5|F1MXU5\_BOVIN;tr|A0A3Q1MRL1|A0A3Q1MRL1\_BOVIN  
tr|E1BLR8|E1BLR8\_BOVIN;tr|A0A3Q1MRY9|A0A3Q1MRY9\_BOVIN  
tr|A0A3Q1MS29|A0A3Q1MS29\_BOVIN;tr|F1MBX4|F1MBX4\_BOVIN  
tr|A0A3Q1MT24|A0A3Q1MT24\_BOVIN;tr|F1MDJ6|F1MDJ6\_BOVIN;tr|A0A3Q1LLJ  
tr|A0A3Q1MTI5|A0A3Q1MTI5\_BOVIN;tr|F6QS88|F6QS88\_BOVIN  
tr|Q3SZJ7|Q3SZJ7\_BOVIN;tr|A0A3Q1MTN6|A0A3Q1MTN6\_BOVIN;tr|G3MXJ5|G  
tr|A0A3Q1MU33|A0A3Q1MU33\_BOVIN;tr|F6QVC9|F6QVC9\_BOVIN;sp|P81287|  
tr|A0A3Q1MUD4|A0A3Q1MUD4\_BOVIN;tr|F1MT25|F1MT25\_BOVIN;tr|A0A3Q1  
tr|A0A3Q1MUI7|A0A3Q1MUI7\_BOVIN  
tr|A0A3Q1MV97|A0A3Q1MV97\_BOVIN;tr|F1MHN9|F1MHN9\_BOVIN  
tr|A0A3Q1MW92|A0A3Q1MW92\_BOVIN;tr|A5D7C6|A5D7C6\_BOVIN;tr|F6QHN4  
tr|A0A3Q1MWR0|A0A3Q1MWR0\_BOVIN;tr|G5E5P3|G5E5P3\_BOVIN;sp|E1BPW0  
tr|F1MYC9|F1MYC9\_BOVIN;tr|A0A3Q1MXU7|A0A3Q1MXU7\_BOVIN;tr|A0A3Q1L  
tr|A0A3Q1MY50|A0A3Q1MY50\_BOVIN;tr|F1N5Z3|F1N5Z3\_BOVIN;tr|A0A3Q1N  
tr|A7E3T7|A7E3T7\_BOVIN;tr|A0A3Q1MZ37|A0A3Q1MZ37\_BOVIN

tr|A0A3Q1MZK6|A0A3Q1MZK6\_BOVIN  
tr|A0A3Q1N0N9|A0A3Q1N0N9\_BOVIN;tr|E1BMP2|E1BMP2\_BOVIN  
tr|A0A3Q1N134|A0A3Q1N134\_BOVIN;tr|A2VDN7|A2VDN7\_BOVIN  
tr|G5E643|G5E643\_BOVIN;tr|A0A3Q1N140|A0A3Q1N140\_BOVIN  
tr|A0A3Q1N245|A0A3Q1N245\_BOVIN;tr|A0A3Q1MGS0|A0A3Q1MGS0\_BOVIN  
tr|A0A3Q1N2B9|A0A3Q1N2B9\_BOVIN;tr|A0A3Q1MSF6|A0A3Q1MSF6\_BOVIN;tr  
tr|F1MSQ7|F1MSQ7\_BOVIN;tr|A0A3Q1NHJ2|A0A3Q1NHJ2\_BOVIN;tr|Q0P5K8|Q  
tr|A0A3Q1N381|A0A3Q1N381\_BOVIN;tr|A0A452DKP2|A0A452DKP2\_BOVIN  
tr|A0A3Q1N703|A0A3Q1N703\_BOVIN  
tr|A0A3Q1N775|A0A3Q1N775\_BOVIN;tr|E1BA17|E1BA17\_BOVIN  
tr|A0A3Q1N7G4|A0A3Q1N7G4\_BOVIN;tr|B8YB76|B8YB76\_BOVIN;tr|A0A3Q1LS  
tr|E1BLC0|E1BLC0\_BOVIN;tr|A0A3Q1N858|A0A3Q1N858\_BOVIN  
tr|Q2NKT5|Q2NKT5\_BOVIN;tr|A0A3Q1N8S2|A0A3Q1N8S2\_BOVIN  
tr|A0A3Q1NC75|A0A3Q1NC75\_BOVIN;tr|F1N3H1|F1N3H1\_BOVIN;sp|Q3T0K1|C  
tr|F6RMA0|F6RMA0\_BOVIN;tr|A0A3Q1NCG7|A0A3Q1NCG7\_BOVIN  
tr|A0A3Q1NCY0|A0A3Q1NCY0\_BOVIN;tr|G5E5U7|G5E5U7\_BOVIN;sp|Q2KJC6|M  
tr|A0A3Q1NDV9|A0A3Q1NDV9\_BOVIN  
tr|E1BDX8|E1BDX8\_BOVIN;tr|A0A3Q1NEU9|A0A3Q1NEU9\_BOVIN  
tr|A0A3Q1NGX5|A0A3Q1NGX5\_BOVIN;tr|F2Z4E7|F2Z4E7\_BOVIN  
tr|A0A3Q1NJR8|A0A3Q1NJR8\_BOVIN;sp|P41361|ANT3\_BOVIN;CON\_\_P41361;t  
tr|A0A3Q1NKP5|A0A3Q1NKP5\_BOVIN  
tr|A0A3S5ZP75|A0A3S5ZP75\_BOVIN  
tr|A0A3S5ZP87|A0A3S5ZP87\_BOVIN  
tr|A0A3S5ZP98|A0A3S5ZP98\_BOVIN;tr|E1BFG0|E1BFG0\_BOVIN;sp|Q2KJC9|AL  
tr|A0A3S5ZPB0|A0A3S5ZPB0\_BOVIN  
tr|A0A3S5ZPD5|A0A3S5ZPD5\_BOVIN  
tr|A0A3S5ZPF7|A0A3S5ZPF7\_BOVIN  
tr|A0A3S5ZPG5|A0A3S5ZPG5\_BOVIN;tr|A0A3Q1MU89|A0A3Q1MU89\_BOVIN;tr  
tr|A0A3S5ZPI7|A0A3S5ZPI7\_BOVIN;tr|Q0P5F6|Q0P5F6\_BOVIN  
tr|A0A3S5ZPJ7|A0A3S5ZPJ7\_BOVIN;tr|A0A3Q1M2A1|A0A3Q1M2A1\_BOVIN  
tr|A0A3S5ZPL3|A0A3S5ZPL3\_BOVIN;tr|Q0VCZ8|Q0VCZ8\_BOVIN;tr|A0A3Q1M  
tr|A0A3S5ZPM3|A0A3S5ZPM3\_BOVIN  
tr|A0A3S5ZPN6|A0A3S5ZPN6\_BOVIN  
tr|A0A3S5ZPP1|A0A3S5ZPP1\_BOVIN  
tr|A0JN37|A0JN37\_BOVIN  
tr|A1A4L7|A1A4L7\_BOVIN  
tr|A1A4M0|A1A4M0\_BOVIN  
tr|A1L578|A1L578\_BOVIN;tr|E1BNE7|E1BNE7\_BOVIN  
tr|A2VDN8|A2VDN8\_BOVIN  
tr|A3KN04|A3KN04\_BOVIN  
tr|A4FUD0|A4FUD0\_BOVIN;tr|A0A3Q1M478|A0A3Q1M478\_BOVIN;sp|Q0VCR7|  
tr|A4FUD2|A4FUD2\_BOVIN;tr|A0A3Q1N3F5|A0A3Q1N3F5\_BOVIN  
tr|A4FV74|A4FV74\_BOVIN  
tr|A4IFT6|A4IFT6\_BOVIN  
tr|F1N6N3|F1N6N3\_BOVIN;tr|A5D7E1|A5D7E1\_BOVIN  
tr|A5D984|A5D984\_BOVIN  
tr|A5PJC5|A5PJC5\_BOVIN  
tr|A5PJR3|A5PJR3\_BOVIN;sp|Q1JP75|DCXR\_BOVIN;tr|A0A3Q1LX69|A0A3Q1LX6

tr|A5PK73|A5PK73\_BOVIN;tr|G3MXL6|G3MXL6\_BOVIN;tr|A0A3Q1MFK7|A0A3Q  
tr|A6H797|A6H797\_BOVIN  
tr|A6H7H3|A6H7H3\_BOVIN;tr|A0A3Q1MLH4|A0A3Q1MLH4\_BOVIN;sp|Q5E9H7|  
tr|A6QLL8|A6QLL8\_BOVIN;tr|A0A3Q1LMG1|A0A3Q1LMG1\_BOVIN  
tr|A6QLN7|A6QLN7\_BOVIN  
tr|A6QLS9|A6QLS9\_BOVIN  
tr|A6QLZ0|A6QLZ0\_BOVIN  
tr|A6QLZ6|A6QLZ6\_BOVIN  
tr|A6QM10|A6QM10\_BOVIN  
tr|A6QP36|A6QP36\_BOVIN  
tr|A6QPC5|A6QPC5\_BOVIN  
tr|A6QPD5|A6QPD5\_BOVIN  
tr|A6QPT4|A6QPT4\_BOVIN  
tr|A6QQQ3|A6QQQ3\_BOVIN;sp|Q9GKN8|PRELP\_BOVIN  
tr|A7E307|A7E307\_BOVIN;tr|F6R9E0|F6R9E0\_BOVIN;tr|A0A3Q1M155|A0A3Q  
tr|A7E3S8|A7E3S8\_BOVIN;tr|A0A3Q1MQM3|A0A3Q1MQM3\_BOVIN;tr|A0A3Q1  
tr|A7MBE6|A7MBE6\_BOVIN  
tr|A7MBE8|A7MBE8\_BOVIN;tr|A0A3Q1MFR9|A0A3Q1MFR9\_BOVIN  
tr|A7MBF1|A7MBF1\_BOVIN;tr|A0A3Q1M4I6|A0A3Q1M4I6\_BOVIN  
tr|A7MBH9|A7MBH9\_BOVIN;sp|P63097|GNAI1\_BOVIN  
tr|A7MBI6|A7MBI6\_BOVIN  
tr|A7YWD3|A7YWD3\_BOVIN  
tr|A7Z014|A7Z014\_BOVIN  
tr|A8E4P3|A8E4P3\_BOVIN  
tr|A8E4Q5|A8E4Q5\_BOVIN  
tr|A8E652|A8E652\_BOVIN  
tr|D3JUI8|D3JUI8\_BOVIN  
tr|E1B8H8|E1B8H8\_BOVIN  
tr|E1B9H1|E1B9H1\_BOVIN  
tr|E1B9H3|E1B9H3\_BOVIN  
tr|E1B9R3|E1B9R3\_BOVIN;tr|A0A3Q1LLZ3|A0A3Q1LLZ3\_BOVIN  
tr|E1BA60|E1BA60\_BOVIN;tr|A5PJV4|A5PJV4\_BOVIN;tr|E1B9C0|E1B9C0\_BOVIN  
tr|E1BA80|E1BA80\_BOVIN;tr|A0A3Q1LG72|A0A3Q1LG72\_BOVIN;tr|A0A3Q1NJP  
tr|E1BAJ4|E1BAJ4\_BOVIN  
tr|E1BAU6|E1BAU6\_BOVIN  
tr|E1BAZ4|E1BAZ4\_BOVIN;tr|A0A3Q1MJC9|A0A3Q1MJC9\_BOVIN  
tr|E1BB28|E1BB28\_BOVIN;tr|A0A3Q1MR10|A0A3Q1MR10\_BOVIN  
tr|E1BB38|E1BB38\_BOVIN  
tr|E1BB91|E1BB91\_BOVIN  
tr|E1BBB3|E1BBB3\_BOVIN  
tr|E1BBT0|E1BBT0\_BOVIN  
tr|E1BC79|E1BC79\_BOVIN;tr|Q0P5G5|Q0P5G5\_BOVIN  
tr|E1BCE2|E1BCE2\_BOVIN  
tr|E1BD64|E1BD64\_BOVIN  
tr|E1BD93|E1BD93\_BOVIN;tr|A0A3Q1LXH8|A0A3Q1LXH8\_BOVIN;tr|A0A3Q1LX  
tr|E1BDP3|E1BDP3\_BOVIN  
tr|E1BE86|E1BE86\_BOVIN  
tr|E1BEG2|E1BEG2\_BOVIN;tr|A0A3Q1LPR0|A0A3Q1LPR0\_BOVIN;tr|A0A3Q1M

tr|E1BEI2|E1BEI2\_BOVIN  
tr|E1BEJ3|E1BEJ3\_BOVIN  
tr|E1BEK0|E1BEK0\_BOVIN  
tr|E1BEX4|E1BEX4\_BOVIN;tr|A0A3Q1LPF4|A0A3Q1LPF4\_BOVIN  
tr|E1BFN6|E1BFN6\_BOVIN;tr|A0A3Q1LXY5|A0A3Q1LXY5\_BOVIN;tr|E1BER6|E1E  
tr|E1BFV0|E1BFV0\_BOVIN  
tr|E1BGA1|E1BGA1\_BOVIN  
tr|E1BGJ0|E1BGJ0\_BOVIN  
tr|E1BHF0|E1BHF0\_BOVIN  
tr|E1BHZ6|E1BHZ6\_BOVIN  
tr|E1BI09|E1BI09\_BOVIN  
tr|E1BI98|E1BI98\_BOVIN  
tr|E1BIB4|E1BIB4\_BOVIN  
tr|E1BIE9|E1BIE9\_BOVIN;tr|G3N271|G3N271\_BOVIN;tr|A0A3Q1MN65|A0A3Q  
tr|E1BJ08|E1BJ08\_BOVIN;tr|E1BKU3|E1BKU3\_BOVIN  
tr|E1BJA2|E1BJA2\_BOVIN  
tr|E1BJQ1|E1BJQ1\_BOVIN  
tr|E1BJU8|E1BJU8\_BOVIN  
tr|E1BK71|E1BK71\_BOVIN  
tr|E1BKM4|E1BKM4\_BOVIN  
tr|E1BKT9|E1BKT9\_BOVIN;tr|A0A3Q1MR22|A0A3Q1MR22\_BOVIN  
tr|E1BKY9|E1BKY9\_BOVIN  
tr|E1BKZ1|E1BKZ1\_BOVIN  
tr|E1BLS8|E1BLS8\_BOVIN  
tr|E1BLV6|E1BLV6\_BOVIN  
tr|E1BLZ8|E1BLZ8\_BOVIN  
tr|E1BMG9|E1BMG9\_BOVIN  
tr|E1BMH4|E1BMH4\_BOVIN;tr|Q3T0W1|Q3T0W1\_BOVIN;tr|A0A3Q1LW40|A0A  
tr|E1BMW9|E1BMW9\_BOVIN  
tr|E1BP01|E1BP01\_BOVIN  
tr|E1BP42|E1BP42\_BOVIN;tr|E1BP41|E1BP41\_BOVIN  
tr|E1BP71|E1BP71\_BOVIN;tr|F1MNC0|F1MNC0\_BOVIN  
tr|E1BQ37|E1BQ37\_BOVIN;tr|A0A3Q1LXA1|A0A3Q1LXA1\_BOVIN  
tr|F1MB84|F1MB84\_BOVIN;tr|A0A3Q1NGN7|A0A3Q1NGN7\_BOVIN  
tr|F1MBF2|F1MBF2\_BOVIN  
tr|F1MBF6|F1MBF6\_BOVIN;tr|A0A3Q1MBS7|A0A3Q1MBS7\_BOVIN;sp|A6QR46|  
tr|F1MBS4|F1MBS4\_BOVIN  
tr|F1MBV2|F1MBV2\_BOVIN  
tr|F1MCD3|F1MCD3\_BOVIN;tr|A0A3Q1M1K9|A0A3Q1M1K9\_BOVIN;tr|E1BCJ7|E  
tr|F1MCN8|F1MCN8\_BOVIN  
tr|F1MD15|F1MD15\_BOVIN;tr|G3N1L5|G3N1L5\_BOVIN  
tr|F1MDS3|F1MDS3\_BOVIN  
tr|F1ME39|F1ME39\_BOVIN  
tr|F1ME46|F1ME46\_BOVIN;tr|A0A3Q1MSA1|A0A3Q1MSA1\_BOVIN  
tr|F1ME58|F1ME58\_BOVIN  
tr|F1ME65|F1ME65\_BOVIN  
tr|F1ME82|F1ME82\_BOVIN  
tr|F1MER7|F1MER7\_BOVIN

tr|F1MES1|F1MES1\_BOVIN;tr|A0A3Q1MG74|A0A3Q1MG74\_BOVIN  
tr|F1MEU8|F1MEU8\_BOVIN;tr|G3MYW0|G3MYW0\_BOVIN  
tr|F1MEW4|F1MEW4\_BOVIN  
tr|F1MF76|F1MF76\_BOVIN  
tr|F1MFG7|F1MFG7\_BOVIN  
tr|F1MFZ4|F1MFZ4\_BOVIN  
tr|Q3SZZ9|Q3SZZ9\_BOVIN;tr|F1MGU7|F1MGU7\_BOVIN;tr|A0A3Q1N064|A0A3C  
tr|F1MHC2|F1MHC2\_BOVIN  
tr|F1MHT1|F1MHT1\_BOVIN  
tr|F1MHZ3|F1MHZ3\_BOVIN  
tr|F1MI11|F1MI11\_BOVIN  
tr|F1MIL9|F1MIL9\_BOVIN  
tr|G3N1G4|G3N1G4\_BOVIN;tr|F1MIT3|F1MIT3\_BOVIN;tr|F1MIM5|F1MIM5\_BOVI  
tr|F1MIY5|F1MIY5\_BOVIN;sp|A5PJD0|URAD\_BOVIN  
tr|F1MJ17|F1MJ17\_BOVIN  
tr|F1MKB7|F1MKB7\_BOVIN;tr|G3MZB0|G3MZB0\_BOVIN  
tr|F1MKF8|F1MKF8\_BOVIN  
tr|F1MKG2|F1MKG2\_BOVIN;tr|Q1JQB0|Q1JQB0\_BOVIN  
tr|F1ML83|F1ML83\_BOVIN;tr|G3MYH1|G3MYH1\_BOVIN;sp|P26201|CD36\_BOVI  
tr|F1ML89|F1ML89\_BOVIN;tr|F1MVC0|F1MVC0\_BOVIN  
tr|F1MLB8|F1MLB8\_BOVIN  
tr|F1MLG1|F1MLG1\_BOVIN  
tr|F1MLV5|F1MLV5\_BOVIN  
tr|F1MLW8|F1MLW8\_BOVIN;tr|A0A3Q1LT19|A0A3Q1LT19\_BOVIN  
tr|F1MLX0|F1MLX0\_BOVIN;sp|Q2KIB0|FAHD2\_BOVIN  
tr|F1MLX9|F1MLX9\_BOVIN  
tr|F1MM10|F1MM10\_BOVIN  
tr|F1MM57|F1MM57\_BOVIN  
tr|F1MMK0|F1MMK0\_BOVIN;sp|A7MBI7|COMT\_BOVIN  
tr|F1MMK8|F1MMK8\_BOVIN  
tr|F1MMR8|F1MMR8\_BOVIN  
tr|F1MMU4|F1MMU4\_BOVIN  
tr|Q2HJ26|Q2HJ26\_BOVIN;tr|F1MN04|F1MN04\_BOVIN  
tr|F1MNA6|F1MNA6\_BOVIN;tr|A0A3Q1LRV0|A0A3Q1LRV0\_BOVIN;tr|A0A3Q1  
tr|F1MNF8|F1MNF8\_BOVIN  
tr|F1MNG5|F1MNG5\_BOVIN;sp|Q9N1U7|OTC\_BOVIN  
tr|F1MNI4|F1MNI4\_BOVIN  
tr|F1MNS5|F1MNS5\_BOVIN  
tr|F1MNT6|F1MNT6\_BOVIN;tr|A0A3Q1M378|A0A3Q1M378\_BOVIN  
tr|F1MP67|F1MP67\_BOVIN;tr|A0A3Q1MEN4|A0A3Q1MEN4\_BOVIN;tr|E1B8U6|E  
tr|F1MPC5|F1MPC5\_BOVIN  
tr|F1MPP7|F1MPP7\_BOVIN  
tr|F1MQ37|F1MQ37\_BOVIN  
tr|F1MQP2|F1MQP2\_BOVIN;tr|A0A3Q1M4C7|A0A3Q1M4C7\_BOVIN  
tr|F1MRF5|F1MRF5\_BOVIN  
tr|F1MRG0|F1MRG0\_BOVIN  
tr|F1MRH2|F1MRH2\_BOVIN  
tr|F1MS49|F1MS49\_BOVIN;tr|A6QQA9|A6QQA9\_BOVIN;tr|E1BBG0|E1BBG0\_BO

tr|F1MT58|F1MT58\_BOVIN;tr|M0QW14|M0QW14\_BOVIN;tr|M0QVY9|M0QVY9\_E  
tr|F1MTR1|F1MTR1\_BOVIN;tr|A6H7H0|A6H7H0\_BOVIN  
tr|F1MTT7|F1MTT7\_BOVIN  
tr|G3N371|G3N371\_BOVIN;tr|F1MTY9|F1MTY9\_BOVIN  
tr|F1MU12|F1MU12\_BOVIN;sp|P05786|K2C8\_BOVIN;CON\_\_Q9H552;CON\_\_Q01  
tr|F1MU22|F1MU22\_BOVIN;sp|P0C6R3|EST4A\_BOVIN;tr|A0A3Q1MWZ3|A0A3Q1  
tr|F1MUP9|F1MUP9\_BOVIN  
tr|F1MUX5|F1MUX5\_BOVIN  
tr|F1MUZ9|F1MUZ9\_BOVIN;sp|P31081|CH60\_BOVIN  
tr|F1MV74|F1MV74\_BOVIN  
tr|F1MV85|F1MV85\_BOVIN  
tr|F1MVL2|F1MVL2\_BOVIN;tr|A0A3Q1LHA3|A0A3Q1LHA3\_BOVIN;sp|Q3ZBF6|A  
tr|F1MVM4|F1MVM4\_BOVIN;tr|A0A3Q1LU46|A0A3Q1LU46\_BOVIN  
tr|F1MVP8|F1MVP8\_BOVIN;tr|A0A3Q1ND55|A0A3Q1ND55\_BOVIN  
tr|G3N150|G3N150\_BOVIN;tr|F1MW47|F1MW47\_BOVIN  
tr|F1MWD3|F1MWD3\_BOVIN  
tr|F1MWE0|F1MWE0\_BOVIN  
tr|F1MWM8|F1MWM8\_BOVIN  
tr|F1MWN0|F1MWN0\_BOVIN  
tr|F1MWR3|F1MWR3\_BOVIN;sp|Q2KJE4|ETFA\_BOVIN  
tr|F1MWU9|F1MWU9\_BOVIN  
tr|F1MWY9|F1MWY9\_BOVIN;tr|A0A3Q1LP28|A0A3Q1LP28\_BOVIN;tr|Q3ZC57|Q  
tr|F1MX38|F1MX38\_BOVIN;sp|P61635|STAT3\_BOVIN  
tr|F1MX44|F1MX44\_BOVIN  
tr|F1MXI4|F1MXI4\_BOVIN;tr|A0A3Q1LRT4|A0A3Q1LRT4\_BOVIN  
tr|F1MXY2|F1MXY2\_BOVIN;sp|Q64L89|MGST1\_BOVIN  
tr|F1MY81|F1MY81\_BOVIN  
tr|F1MY84|F1MY84\_BOVIN  
tr|F1MYG5|F1MYG5\_BOVIN  
tr|F1MYV0|F1MYV0\_BOVIN;tr|A0A3Q1MC79|A0A3Q1MC79\_BOVIN;tr|A0A3Q1  
tr|F1MYZ7|F1MYZ7\_BOVIN;tr|A0A3Q1LRP4|A0A3Q1LRP4\_BOVIN;sp|A5PKH3|F  
tr|F1MZN9|F1MZN9\_BOVIN;tr|A0A3Q1M0E0|A0A3Q1M0E0\_BOVIN  
tr|F1MZY2|F1MZY2\_BOVIN  
tr|F1N085|F1N085\_BOVIN;tr|Q0VC88|Q0VC88\_BOVIN;tr|Q3T0J0|Q3T0J0\_BOVIN  
tr|F1N086|F1N086\_BOVIN  
tr|F1N0E5|F1N0E5\_BOVIN;sp|Q2T9X2|TCPD\_BOVIN  
tr|F1N0F7|F1N0F7\_BOVIN  
tr|F1N0S6|F1N0S6\_BOVIN;tr|E1BG19|E1BG19\_BOVIN  
tr|F1N169|F1N169\_BOVIN;tr|A0A3Q1M057|A0A3Q1M057\_BOVIN;tr|A0A3Q1L  
tr|G5E628|G5E628\_BOVIN;tr|F1N1A3|F1N1A3\_BOVIN  
tr|F1N206|F1N206\_BOVIN  
tr|F1N2I5|F1N2I5\_BOVIN;tr|A0A3Q1LGS8|A0A3Q1LGS8\_BOVIN  
tr|F1N2K1|F1N2K1\_BOVIN  
tr|F1N2Q7|F1N2Q7\_BOVIN  
tr|F1N2W0|F1N2W0\_BOVIN;sp|Q3SZJ4|PTGR1\_BOVIN;sp|A4FV45|TM214\_BOVI  
tr|F1N338|F1N338\_BOVIN;tr|A0A3Q1LS03|A0A3Q1LS03\_BOVIN  
tr|F1N3P2|F1N3P2\_BOVIN;sp|E1BMF7|UBP13\_BOVIN  
tr|F1N455|F1N455\_BOVIN;sp|Q3ZCJ8|CATC\_BOVIN

tr|F1N4U6|F1N4U6\_BOVIN;tr|A0A3Q1MSS7|A0A3Q1MSS7\_BOVIN  
tr|F1N5M2|F1N5M2\_BOVIN;tr|A0A3Q1MKX8|A0A3Q1MKX8\_BOVIN;sp|Q3MHN5  
tr|F1N678|F1N678\_BOVIN  
tr|F1N690|F1N690\_BOVIN  
tr|F1N6I4|F1N6I4\_BOVIN;tr|A0A3Q1NB93|A0A3Q1NB93\_BOVIN  
tr|F1N6N4|F1N6N4\_BOVIN  
tr|F1N6W9|F1N6W9\_BOVIN;tr|A8E654|A8E654\_BOVIN  
tr|F1N7W0|F1N7W0\_BOVIN;sp|Q17QU7|DHR13\_BOVIN  
tr|F2Z4F5|F2Z4F5\_BOVIN  
tr|F2Z4H6|F2Z4H6\_BOVIN  
tr|F2Z4I6|F2Z4I6\_BOVIN  
tr|F6PTG3|F6PTG3\_BOVIN  
tr|Q3T185|Q3T185\_BOVIN;tr|F6PVF9|F6PVF9\_BOVIN  
tr|F6PXE3|F6PXE3\_BOVIN  
tr|F6Q9Q9|F6Q9Q9\_BOVIN;sp|P05307|PDIA1\_BOVIN;tr|A0A3Q1LPQ0|A0A3Q1  
tr|F6QEU6|F6QEU6\_BOVIN  
tr|F6QGE6|F6QGE6\_BOVIN  
tr|F6QH94|F6QH94\_BOVIN;tr|A0A3Q1MRD2|A0A3Q1MRD2\_BOVIN  
tr|F6QIT9|F6QIT9\_BOVIN  
tr|F6QJJ8|F6QJJ8\_BOVIN  
tr|F6QQ60|F6QQ60\_BOVIN;tr|A0A3Q1MLV0|A0A3Q1MLV0\_BOVIN  
tr|F6QQE8|F6QQE8\_BOVIN  
tr|F6R4N7|F6R4N7\_BOVIN  
tr|F6RFP6|F6RFP6\_BOVIN  
tr|F6RWK1|F6RWK1\_BOVIN  
tr|F6S1Q0|F6S1Q0\_BOVIN;CON\_\_P05784;CON\_\_H-INV:HIT000015463;sp|Q0P  
tr|G3MVG4|G3MVG4\_BOVIN  
tr|G3MWJ8|G3MWJ8\_BOVIN;tr|G5E631|G5E631\_BOVIN;tr|A0A3Q1MR08|A0A3Q  
tr|G3MWT1|G3MWT1\_BOVIN  
tr|G3MXC8|G3MXC8\_BOVIN;sp|Q3SYX9|ARPC5\_BOVIN  
tr|G3MYH2|G3MYH2\_BOVIN  
tr|G3N0V0|G3N0V0\_BOVIN;tr|A0A3Q1N3I9|A0A3Q1N3I9\_BOVIN  
tr|G3N1U4|G3N1U4\_BOVIN;tr|A0A452DJA9|A0A452DJA9\_BOVIN  
tr|G3N2L2|G3N2L2\_BOVIN  
tr|Q2KJ42|Q2KJ42\_BOVIN;tr|G3N361|G3N361\_BOVIN;tr|A0A3Q1LXP0|A0A3Q1  
tr|G3N3D4|G3N3D4\_BOVIN;tr|E1B905|E1B905\_BOVIN  
tr|G3N3K3|G3N3K3\_BOVIN  
tr|G3N3N1|G3N3N1\_BOVIN  
tr|G3X6L7|G3X6L7\_BOVIN  
tr|G3X6N3|G3X6N3\_BOVIN  
tr|G5E531|G5E531\_BOVIN;sp|Q32L40|TCPA\_BOVIN  
tr|G5E5C8|G5E5C8\_BOVIN;sp|Q2TBL6|TALDO\_BOVIN  
tr|G5E626|G5E626\_BOVIN;tr|G3N1X7|G3N1X7\_BOVIN;tr|A0A3Q1N6N0|A0A3  
tr|H7BWW0|H7BWW0\_BOVIN  
tr|H7BWW2|H7BWW2\_BOVIN;tr|E1B9H0|E1B9H0\_BOVIN;tr|E1B9E8|E1B9E8\_B  
tr|M0QW21|M0QW21\_BOVIN  
tr|O18736|O18736\_BOVIN  
tr|Q08D92|Q08D92\_BOVIN

tr|Q08DV2|Q08DV2\_BOVIN;tr|A0A3Q1MLH0|A0A3Q1MLH0\_BOVIN  
tr|Q08E34|Q08E34\_BOVIN  
tr|Q0II75|Q0II75\_BOVIN;tr|Q5EA35|Q5EA35\_BOVIN  
tr|Q0III1|Q0III1\_BOVIN;tr|A0A3S5ZPN0|A0A3S5ZPN0\_BOVIN;sp|Q9GK13|MUTA  
tr|Q0IIL6|Q0IIL6\_BOVIN;tr|A0A3Q1NK91|A0A3Q1NK91\_BOVIN  
tr|Q0P5G8|Q0P5G8\_BOVIN;tr|A0A3Q1NE20|A0A3Q1NE20\_BOVIN  
tr|Q0PHW6|Q0PHW6\_BOVIN  
tr|Q0V8D0|Q0V8D0\_BOVIN;tr|A0A3Q1MGL0|A0A3Q1MGL0\_BOVIN;tr|A0A3Q1  
tr|Q0VC97|Q0VC97\_BOVIN  
tr|Q0VCK1|Q0VCK1\_BOVIN  
tr|Q0VCM7|Q0VCM7\_BOVIN;tr|A0A3Q1MGK3|A0A3Q1MGK3\_BOVIN;tr|F1N0Y0|  
tr|Q0VCQ2|Q0VCQ2\_BOVIN  
tr|Q0VCQ9|Q0VCQ9\_BOVIN  
tr|Q148D3|Q148D3\_BOVIN;tr|A0A3Q1MSL5|A0A3Q1MSL5\_BOVIN;tr|A0A3Q1L  
tr|Q148D6|Q148D6\_BOVIN  
tr|Q148J4|Q148J4\_BOVIN;tr|A0A3Q1M7J6|A0A3Q1M7J6\_BOVIN;tr|E1BC58|E1B  
tr|Q17QI3|Q17QI3\_BOVIN;tr|A0A3Q1MUM9|A0A3Q1MUM9\_BOVIN;tr|A0A3Q1M  
tr|Q1JPG7|Q1JPG7\_BOVIN  
tr|Q1JQD3|Q1JQD3\_BOVIN  
tr|Q1LZ72|Q1LZ72\_BOVIN  
tr|Q1LZF6|Q1LZF6\_BOVIN;tr|A0A3Q1MNF0|A0A3Q1MNF0\_BOVIN;tr|A0A3Q1N  
tr|Q1LZF9|Q1LZF9\_BOVIN  
tr|Q1RMI2|Q1RMI2\_BOVIN  
tr|Q24JZ4|Q24JZ4\_BOVIN;tr|A0A3Q1LV65|A0A3Q1LV65\_BOVIN  
tr|Q24K14|Q24K14\_BOVIN  
tr|Q29RH9|Q29RH9\_BOVIN  
tr|Q29RS1|Q29RS1\_BOVIN  
tr|Q2KHW4|Q2KHW4\_BOVIN  
tr|Q2KIG6|Q2KIG6\_BOVIN  
tr|Q2KIM6|Q2KIM6\_BOVIN;tr|F6RQK3|F6RQK3\_BOVIN;tr|A0A3Q1LVX4|A0A3Q  
tr|Q2KIS4|Q2KIS4\_BOVIN;tr|A0A3Q1LQK5|A0A3Q1LQK5\_BOVIN  
tr|Q2KIS5|Q2KIS5\_BOVIN  
tr|Q2KIV8|Q2KIV8\_BOVIN;tr|A0A3Q1LSN6|A0A3Q1LSN6\_BOVIN  
tr|Q2KIW1|Q2KIW1\_BOVIN  
tr|Q2KJJ2|Q2KJJ2\_BOVIN  
tr|Q32KM0|Q32KM0\_BOVIN  
tr|Q3MHK8|Q3MHK8\_BOVIN;tr|F1N7H2|F1N7H2\_BOVIN  
tr|Q3MHK9|Q3MHK9\_BOVIN  
tr|Q3MHQ1|Q3MHQ1\_BOVIN  
tr|Q3MHX0|Q3MHX0\_BOVIN  
tr|Q3SX32|Q3SX32\_BOVIN  
tr|Q3SX47|Q3SX47\_BOVIN;tr|A0A3Q1M2E6|A0A3Q1M2E6\_BOVIN  
tr|Q3SZ00|Q3SZ00\_BOVIN;tr|A0A3Q1NDR1|A0A3Q1NDR1\_BOVIN  
tr|Q3SZA4|Q3SZA4\_BOVIN  
tr|Q3SZN8|Q3SZN8\_BOVIN;tr|H9GW43|H9GW43\_BOVIN  
tr|Q3SZT2|Q3SZT2\_BOVIN  
tr|Q3T047|Q3T047\_BOVIN;tr|A0A3Q1LK48|A0A3Q1LK48\_BOVIN;tr|G3X6I4|G3  
tr|Q3T057|Q3T057\_BOVIN

tr|Q3T0V2|Q3T0V2\_BOVIN;tr|F1MR63|F1MR63\_BOVIN  
tr|Q3ZBG1|Q3ZBG1\_BOVIN  
tr|Q3ZBG2|Q3ZBG2\_BOVIN  
tr|Q3ZBT8|Q3ZBT8\_BOVIN  
tr|Q3ZC41|Q3ZC41\_BOVIN  
tr|Q3ZCA7|Q3ZCA7\_BOVIN  
tr|Q3ZCE2|Q3ZCE2\_BOVIN  
tr|Q3ZCJ6|Q3ZCJ6\_BOVIN;tr|F6RAL2|F6RAL2\_BOVIN;tr|A0A3Q1M0G9|A0A3Q1M0G9\_BOVIN  
tr|Q5E9F1|Q5E9F1\_BOVIN  
tr|Q6IE76|Q6IE76\_BOVIN;sp|Q32KR6|FDFT\_BOVIN  
tr|Q7YRW9|Q7YRW9\_BOVIN

**plemented or not with vitamin B and hydroxyl minerals during the finishin**

				<i>Animals supplem</i>
<b>Animal 1</b>	<b>Animal 3</b>	<b>Animal 4</b>	<b>Animal 13</b>	
0	0	0	0	0
590780	505100	574600	484350	
0	0	0	0	
0	148240	0	0	
3427200	3142400	4291800	2513000	
0	0	0	0	
0	0	0	0	
0	0	171500	0	
0	0	0	0	
7973800	7981400	7830300	12899000	
0	0	0	0	
0	0	0	0	
35772000	76002000	72806000	42395000	
54011000	72379000	67991000	69765000	
0	0	0	0	
3672900	2942200	1765900	2229200	
4250400	4239700	3979900	3677800	
3643200	2957100	2668700	2881800	
29224000	35453000	34078000	40818000	
1864300	804730	0	0	
0	0	0	0	
0	0	0	0	
252650	0	0	0	
6715500	7589500	7387700	5750900	
0	0	0	0	
0	0	0	0	
0	0	0	0	
578740	0	762420	598530	
281600	224900	0	0	
208110	284950	336170	0	
0	0	0	0	
0	201280	0	0	
0	0	0	0	
210880	177080	0	0	
0	185470	0	0	
548710	485590	502550	417660	
0	163450	289020	0	
652830	0	626430	941530	
1641900	0	0	0	
133290	138740	0	0	
0	0	130300	0	
0	0	0	0	
0	186860	0	0	
574340	451430	524190	0	

4225500	2927700	4659200	3006000
91545	0	0	0
267960	0	0	0
0	0	0	0
0	0	0	0
325720	272730	264800	0
215800	0	226350	0
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6099400	6630100	6606500	6000000
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0	0	0	0
8633100	9706300	12955000	11479000
411070	0	499370	0
0	120380	0	0
273340	0	0	0

**ing phase and their raw intensities.**

*ented with vitamin B and hydroxyl minerals*

<b>Animal 16</b>	<b>Animal 21</b>	<b>Animal 24</b>	<b>Animal 32</b>
0	0	0	0
724550	546290	600890	0
0	0	0	0
0	0	0	0
3662900	1842300	2539000	1215400
0	0	0	0
0	0	122590	0
0	0	0	0
0	0	0	0
6959400	5164300	10390000	0
0	0	0	0
0	0	178590	0
52880000	20770000	41943000	29978000
73656000	20826000	57540000	36576000
0	0	0	0
2323400	3063100	4815900	1578900
4524200	3334500	3936200	3847000
2932000	2539700	3147500	1634400
34500000	19798000	29353000	23216000
0	160970	197130	0
0	0	0	0
0	0	0	0
0	0	0	0
6467900	5623600	5905700	4305300
0	0	0	0
0	0	0	0
0	0	0	0
813450	0	0	0
0	0	0	0
353010	0	0	0
0	0	0	0
0	0	479430	1486200
0	0	0	0
0	0	0	0
0	0	0	0
629440	0	0	0
318660	0	0	0
699140	0	431730	0
0	0	0	0
252400	0	148700	0
0	0	0	0
0	0	0	0
0	0	171680	0
1158000	0	669630	0

4714900	1941800	5039900	916080
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
286330	0	296890	0
300960	0	0	0
0	0	0	0
851680	812920	1377500	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	4012200	0	0
0	0	0	0
0	0	0	0
0	0	370780	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	132160	0
0	0	0	0
0	0	0	0
0	0	151390	0
5438300	6065900	5545900	0
778970	715780	533940	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	125960	0	0
577170	371890	350060	0
0	0	0	0
0	368220	342860	0
0	643720	443210	0
0	0	0	0
0	783050	606660	714940
0	0	0	0
0	0	0	0
0	0	0	0
2131400	2255700	2814400	254540
0	0	0	0
435370	0	414490	0

0	0	0	0
0	0	510290	0
0	0	0	0
0	0	0	0
0	0	513730	0
2026500	2183900	2430900	1595700
0	0	0	0
465040	0	879730	0
0	0	356920	0
68628	0	0	0
0	0	106830	0
0	0	44804	0
0	223630	278930	0
0	0	0	0
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0	508460	470840	0
0	0	0	0
0	0	242950	0
472650	0	375090	0
0	0	0	0
1096400	1481400	3059400	2207900
0	0	137430	0
0	647930	479910	0
0	0	267570	0
0	0	125960	0
0	0	0	0
0	0	0	0
1104200	1333500	1275100	988190
0	0	0	0
2875800	2302500	2531800	2175800
0	0	405150	0
0	0	186630	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	47010	0
0	0	0	0
10181000	11753000	8419400	5949700
0	0	0	0
0	0	0	0
0	0	541970	987970
0	0	364930	0
5365900	4853700	4946900	3751100
0	491770	342200	514280
331160	584360	714770	0

0	960640	647870	0
1846500	2148600	2888900	1415800
0	0	0	0
0	0	0	0
3185500	3094300	3662000	1870900
0	0	1322700	1144100
0	0	0	0
974050	1306300	1414300	2031000
0	0	299400	0
0	0	0	0
0	0	0	0
8862600	7962700	8923200	2883900
0	0	0	0
0	0	0	0
0	774960	893820	1048400
426660	962480	699440	0
0	0	0	0
0	337600	245600	0
52847000	57512000	72441000	69257000
0	522220	455680	0
4047600	5423000	5978400	5321700
0	0	0	0
6745600	6536200	6630200	3452400
1171500	958940	1634500	923130
0	0	0	0
9077400	9914900	10388000	6253700
1098800	295950	731500	0
0	0	0	0
0	123510	0	0
0	0	262200	0
0	0	0	0
0	0	166010	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1136100	1587600	2097700	1712200
0	0	405940	0
0	387990	701150	349190
0	0	0	0
0	0	0	0
0	0	0	993260
857230	826050	904430	1192600
0	0	379860	1176200
1941400	1934300	2046300	0
1250800	1911900	1694400	0
337120	0	246340	0
786700	0	613790	0

0	0	0	0
1273200	1255800	1899300	2032200
473880	541010	408600	0
0	0	294570	0
0	0	102120	0
0	0	0	0
10062000	11333000	15646000	15441000
0	0	0	0
0	0	273730	0
0	0	0	0
687460	580330	1795800	248950
260410	0	332820	0
0	0	252380	0
360140	0	421680	352550
0	1044200	1144400	0
0	0	0	0
0	0	199820	0
0	0	542690	0
4366900	4671600	4139900	5054600
5135400	4350500	6309500	3614300
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0	0	0	0
4783700	6753400	2746700	6697400
0	0	134410	0
0	270370	0	0
0	0	0	0
651980	682440	707330	0
756310	796060	1200600	0
6283800	5745800	8214000	3494400
301170	210650	0	0
347260	0	383180	497490
14891000	14597000	17363000	17490000
0	247970	208230	0
0	0	0	0
0	0	329430	0
0	0	0	0
0	0	142580	0
0	0	140320	0
0	689660	836770	0
0	0	721870	0
2286800	2671300	2692000	834090
0	0	1541100	529110
0	0	0	0
0	0	58005	0
1143500	1104200	843310	0
0	0	229570	0
7463700	7149400	10981000	5600500
659550	912760	1009000	1048000

0	0	87912	0
0	0	714980	0
0	0	0	0
0	0	0	0
0	0	648130	0
0	0	0	0
762390	731680	556610	757810
0	0	0	0
0	0	0	0
0	0	557240	0
0	0	0	0
0	0	44803	0
0	0	68727	0
0	0	261330	0
0	0	0	0
0	0	0	0
995210	818350	604430	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	64636	0
0	0	0	0
0	459230	524940	0
0	0	192150	0
0	0	449560	0
2320000	2118600	2004800	1342900
0	0	0	0
0	0	0	0
0	0	0	0
0	0	146380	0
0	0	0	0
0	0	0	0
2499100	2689500	3012700	1363200
399130	0	0	0
0	0	0	0
3905400	6238700	6355200	4970200
0	0	0	0
0	0	0	0
925280	1064700	0	0
0	0	153070	0
0	0	165960	0
1455100	1399000	1371700	0
1192900	1321700	1050100	0
387930	457800	508720	647710
0	0	385980	0
0	0	0	0
3225700	3594300	4544100	4587800
21001000	23501000	23358000	27034000

1848700	1947700	1611800	1194900
523730	541420	717080	0
1509000	1805600	1320700	0
3974400	2016100	3254700	1698500
1618900	1694300	1920400	0
0	0	0	0
0	0	0	0
3482000	4352200	4780500	4678800
1105900	1031900	691280	1783500
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4487500	5906900	5275300	3668000
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0	0	139520	0
0	0	0	0
797010	793880	922450	0
456320	1251200	969990	750870
2958100	2500400	3377600	1068600
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0	0	0	0
0	678750	759100	1454400
0	436470	409990	0
858370	1421700	1253900	1284100
24151000	33473000	39432000	44218000
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0	0	0	0
0	295720	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
328470	255090	275830	0
0	0	126480	0
0	0	305980	0
0	0	401530	0
2112300	0	2544100	3152000
955450	1530200	576110	0
0	0	0	1099200
603870	1601900	2390000	1533900
0	1695500	1434200	1548300
2490000	4147800	4509300	4585100
2344200	3430400	6564200	8064600
0	0	0	0
0	291160	310820	0
1053700	3120100	3505900	0
0	0	706140	0
0	387560	0	0
0	0	0	0
0	0	0	0

0	487290	535080	0
0	350600	353990	0
0	0	0	0
0	0	148910	0
0	0	0	0
0	0	0	0
620680	545570	596380	699150
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5772500	7420600	8131100	3996500
0	375670	410620	0
0	371140	398980	0
0	0	0	0
0	0	0	0
1510100	1881300	2554500	2985400
0	0	1153300	912100
0	0	241860	0
0	0	284840	0
0	304780	269610	0
12602000	15570000	17431000	7670400
0	0	0	0
0	0	0	0
1314900	0	1103100	0
0	0	0	0
3504900	3517100	2968000	3241500
7037000	0	16490000	8479100
214870	0	224430	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
486770	587680	487440	0
768350	0	767480	0
1689300	1693300	1551400	928790
2655900	1882100	2196900	0
0	0	222870	0
0	0	0	0
0	458020	456760	0
353480	393990	344190	0
0	0	0	0
740430	1026300	717780	0
2375800	3130100	3139900	974790
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
480360	788710	674010	0
0	0	0	0

4591200	4054900	3772300	4193000
0	0	0	0
0	347460	488770	0
0	0	0	0
0	0	170480	0
2514000	4628400	2884000	4398600
857080	701380	959910	0
0	0	0	0
0	0	0	0
0	0	0	0
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441460	848790	838260	0
0	0	0	0
0	0	0	0
777830	521520	773310	920530
0	0	0	0
0	343020	233450	0
0	0	269880	0
801940	2247400	2210600	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1772400	2585600	2473900	0
0	819620	715740	0
0	0	0	0
14103000	17142000	19067000	15743000
0	507510	539920	0
0	0	0	0
1757400	2654800	2270000	557110
9966700	10749000	9389000	7192900
0	0	0	0
0	0	128740	0
0	0	60923	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
2214900	2541600	586470	1514900
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0	0	0	0
0	0	0	0
598220	734120	848770	0
240690	345500	1027100	0
0	0	94747	0
0	0	0	0
0	0	0	0

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0	0	0	0
0	0	0	0
2086400	2066900	1824400	1298200
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0	0	0	0
691250	590170	527680	0
0	0	0	0
2431700	2917000	2903400	2289500
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0	0	0	0
0	0	0	0
391310	269570	433000	0
494610	489360	0	626470
0	0	0	0
0	0	0	0
0	0	0	0
0	0	57504	0
0	0	0	0
675060	0	644410	0
0	0	455560	0
0	0	0	0
0	0	0	0
517850	543590	422780	0
0	0	231600	0
0	0	0	0
638220	1841200	2067600	1135200
0	0	0	0
294470	0	188180	0
3160900	4466700	4377300	6514600
4055400	4456800	4847300	1769300
0	0	0	0
0	0	0	0
0	0	0	0
0	722260	735610	0
4246000	6201000	14400000	1223000
870710	0	0	0
749860	739360	438880	0
0	0	0	0
68956	0	0	0
825770	889790	1091100	0
0	0	354220	0
0	0	0	0
0	0	0	0
0	0	200880	0
569970	565980	526770	0
0	0	484340	0
0	0	0	0

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0	0	0	0
0	0	0	0
0	0	285970	0
0	602620	674310	0
0	0	0	0
0	0	367410	0
14594000	13078000	15386000	24436000
621530	493490	577940	392090
1497000	1465200	1640900	1625400
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0	214370	0	0
8912100	8984700	11070000	11447000
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0	0	0	0
0	0	484310	0
0	0	0	0
0	297780	247540	0
0	62093	0	0
0	0	9717000	722940
0	0	0	0
0	0	0	0
2731700	2406000	3862400	2185900
0	0	0	0
630210	1525400	1003200	908530
0	782890	616350	0
0	320370	199770	0
0	0	129310	0
0	0	0	0
0	0	0	0
4774000	5867200	6179000	9150600
0	0	0	0
0	0	0	0
0	0	186680	0
0	597530	661700	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1799400	1252500	3084000	973910
0	0	0	0
0	0	0	0
1205400	1490600	2041100	1206200
0	0	349720	0
0	0	55678	0

1365700	1191800	1255500	1690400
0	0	175120	0
0	0	204870	0
0	0	158290	0
0	341860	292800	0
0	0	0	0
0	0	0	0
595000	564120	630730	0
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0	0	278730	0
0	0	906940	0
0	0	0	0
5335500	6165100	6153300	6053800
0	0	0	0
0	0	0	0
0	0	0	0
566620	646490	415840	0
0	0	152310	0
0	0	0	125550
0	0	284520	0
0	0	264800	0
0	0	0	0
0	0	0	0
0	261890	298710	0
1033200	1442600	1310700	1511500
0	0	299070	0
0	0	363500	0
0	0	0	0
0	0	0	0
0	0	0	0
12984000	18908000	21947000	21998000
0	0	174530	0
1090900	3070200	5898000	717110
0	0	0	0
0	0	190540	0
229900	269670	0	0
0	0	330570	0
0	0	0	0
0	0	0	0
0	0	249120	0
1911500	1061900	2059000	336640
0	0	0	0
0	0	36809	0
0	0	0	0
0	379470	266320	0
0	0	0	0
0	0	0	0

0	0	293340	0
1028700	1647100	1667600	602170
1307000	1724500	1596400	1099100
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0	0	479000	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
310190	255620	334310	0
0	254630	217020	0
0	0	0	0
0	0	0	0
1471500	1569400	1573700	0
0	428680	452930	0
0	0	0	0
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0	0	0	0
0	0	0	0
3778500	5154500	4811200	2134800
8209200	10078000	10472000	4937600
0	0	109640	0
0	0	0	0
3367200	4973600	4539600	1965100
169270	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
644360	539460	463690	0
932770	683120	880960	1170400
2355800	4313900	4707700	4048700
481840	508890	444530	1238000
0	0	179320	0
923920	1381300	1285800	1209700
0	0	0	0
0	0	0	0
0	0	329560	0
710650	0	641630	739320
0	0	0	0
689200	748150	3280900	4483600
1464500	2425900	1514700	578580
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0	0	0	0
0	0	0	0
0	0	405130	0
0	0	268150	0
0	0	0	0
0	0	722510	0

317140	355170	277510	0
0	0	286950	0
1007700	665220	761460	445910
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0	166310	0	0
0	0	51667	0
855380	895070	1084500	615400
287940	0	252540	0
0	795160	877010	0
0	0	0	0
0	0	115970	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	353350	384450
0	0	428640	0
1696700	2107400	2057300	0
0	0	824930	0
0	0	308340	509100
0	0	0	0
18843000	19838000	16608000	8680700
11760000	13371000	16667000	16944000
0	0	238930	0
0	418370	333850	0
0	0	264470	0
0	0	329260	0
0	369720	294930	0
0	0	0	0
0	155940	284760	0
0	0	178760	0
188030	163970	267580	0
0	0	192580	0
0	0	244640	0
0	0	0	0
1782700	1557900	1225100	752470
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1573900	1785200	1271300	0
0	0	256230	0
417720	671130	733340	1072600
0	0	0	0
6941900	6748400	6309200	7156400
0	0	0	0
1302500	1161000	711160	0
685300	653600	616390	0

0	0	246350	0
0	749910	694660	0
0	0	301370	0
1291400	1366800	1568900	0
704270	0	694480	0
789720	1221800	892140	0
0	0	335940	0
405640	435290	383430	0
0	0	0	0
0	0	0	0
0	0	463330	0
0	0	0	0
0	0	0	0
0	0	0	0
1242100	1477300	1870900	813390
0	0	0	0
0	0	0	0
0	0	379600	0
0	0	0	0
0	0	0	0
0	367220	0	0
0	0	193710	0
0	0	1331000	0
0	0	0	0
666040	0	678710	0
781450	1001500	1601100	0
0	0	448870	0
0	0	0	0
0	0	0	0
0	0	354740	0
0	0	0	0
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1757100	2010700	1790100	1655900
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1906700	2161900	2165000	1341900
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240670	376090	0	0
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3132600	2896700	4882300	2191200
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440540	330190	509510	0
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251280	0	560560	0
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0	0	389980	0
170640	0	0	0
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1283800	1211500	1386600	0
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2857900	3951000	3553500	6267600
540570	508500	579830	0
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395150	0	0	0
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317070	0	247680	0
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2946900	2026000	3629700	4311200
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19284000	19942000	22844000	15097000
1718600	1463200	1443400	0
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709530	599280	847720	0
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792140	0	1728200	470970
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403710	806550	1344300	0
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831370	841030	646270	0

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528340	679730	532690	0
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## Intensities

Animal 44	Animal 2	Animal 6	Animal 7
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0	425560	459590	335630
174080	0	161960	0
0	0	0	0
2168400	3101200	2174500	1654700
0	0	0	0

1530700	2190600	1189400	1690700
0	248580	297450	334880
932420	0	1763400	528600
0	0	0	198510
5930500	6826700	6635200	5387900
0	0	0	0
0	37143	0	0
6822900	10852000	10604000	8485200
360860	439850	352990	404100
0	0	0	0
0	0	0	0

*Animals with no supplementation of vitamin B and hidroxyyl mine*

<b>Animal 8</b>	<b>Animal 14</b>	<b>Animal 15</b>	<b>Animal 22</b>
0	0	0	207510
536650	615870	726690	410750
0	0	0	0
0	0	0	0
4216900	2629000	3826000	3349000
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	7386100	14312000	5989000
0	0	0	0
0	0	0	0
32363000	10638000	41815000	46496000
34198000	36437000	65036000	45708000
0	0	342850	0
0	0	2953800	3378200
4472600	3171200	5352600	4527200
2835100	2543200	4544500	2986800
23667000	13144000	32934000	32138000
593560	0	808890	0
0	0	0	0
0	0	358180	0
0	0	281160	0
6131400	6621400	6462800	6235600
0	0	0	0
0	0	0	0
0	0	0	56118
756410	651300	626840	461700
0	0	0	0
0	307960	0	0
0	0	0	0
0	0	0	0
0	0	0	354020
0	0	0	179670
0	232380	0	182020
0	0	0	330090
0	0	231990	0
682610	0	921150	572330
0	0	0	0
0	0	153070	146620
0	0	0	0
0	0	0	0
0	0	0	202010
483130	0	485590	654370

2895300	3686700	3512500	2658500
0	0	0	0
0	0	233990	188870
0	0	0	0
0	0	0	0
339060	0	255190	326590
0	0	0	321960
0	0	0	171690
647880	712250	903000	1208800
0	0	0	0
0	0	0	154910
0	0	0	256840
197070	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	30087000	0
0	0	363400	0
0	0	0	0
0	0	0	2833600
0	0	0	0
0	0	0	0
135120	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
6615100	5960000	5091500	5120500
0	0	984090	548110
0	0	0	197830
0	0	0	0
0	0	0	221550
0	0	0	0
0	0	0	110530
442340	395150	290640	512200
0	0	0	54958
0	0	369660	297130
0	486730	628950	584500
0	0	0	0
0	853030	667440	633060
0	0	0	0
0	0	0	0
0	0	0	0
1738800	1448800	3651500	3721700
0	0	0	0
0	714800	543510	602610

0	0	0	0
0	0	0	263230
0	0	0	0
0	0	0	0
541710	0	291900	398050
2608200	2034800	2591200	2220100
0	0	0	0
670840	923750	684100	988430
0	0	0	0
0	0	0	0
0	0	104060	149640
0	0	0	0
0	0	0	172500
0	0	217320	0
0	0	0	0
0	0	0	0
0	0	0	242710
0	0	291320	0
0	582580	541920	484580
0	0	0	244400
0	0	0	205720
0	0	0	436650
0	0	0	0
1912300	0	1753300	1307100
0	0	0	0
555730	0	540530	458660
0	0	250630	0
0	0	0	0
0	0	0	0
0	0	150280	142140
1442200	1729600	1473800	1215800
0	0	90327	0
2783900	2434900	3113600	3741400
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	109570
0	0	0	0
0	0	0	0
0	0	0	0
10835000	10473000	11118000	11264000
0	957500	0	0
0	0	0	0
0	0	540650	608250
0	0	399770	0
6045800	6664900	5457000	5241400
0	438940	167060	428480
419590	437690	553170	745750

868330	921540	911830	1373800
1532000	950420	2301400	2644500
0	0	0	152200
0	0	0	208720
2730200	2744300	3960400	3526400
1029100	0	827220	1080700
0	0	0	0
1054800	711680	1063100	1209700
0	0	0	345850
0	0	0	138930
0	0	0	252790
7927500	8215800	7140400	9920700
0	0	0	0
0	0	0	255450
0	0	732820	744540
808220	790290	749370	924760
0	0	0	552920
0	0	0	0
56225000	49526000	61197000	54131000
0	0	498240	735630
4588800	0	4929800	5758500
0	0	0	0
6423700	5891500	6427300	6129400
756580	765090	1239200	1649500
0	0	0	0
10578000	9349300	10356000	11380000
0	0	0	1100200
0	0	0	0
0	279990	0	161420
0	0	0	121220
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1020900	790310	1366700	1332300
0	0	323930	346810
698790	598930	571810	1093900
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0	0	0	95852
0	0	0	0
849170	608680	756870	760940
0	0	200360	543110
2309900	2999100	1982000	1930700
1218400	1446900	1453400	2363800
0	270680	0	509550
0	0	839640	738660

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1493300	0	1436000	2017300
382240	0	470930	436310
0	0	366350	379940
0	0	0	0
0	0	0	0
12343000	9644200	12768000	17172000
0	0	0	0
0	0	284570	219330
0	0	0	0
657300	678460	1358300	1392700
350500	409220	313620	625860
0	0	0	0
456560	409730	493540	530140
1345700	0	1562400	1042400
0	0	0	0
0	0	0	217310
0	0	445870	387850
5315100	3269700	5235700	4289100
4669000	4038100	3665300	4806800
0	0	0	213520
287230	0	0	0
6061200	6189100	5050300	5529500
0	0	0	0
0	0	0	256470
0	0	193300	262960
571460	564610	634250	567920
1002200	0	1042000	1110200
7335900	7524100	6964000	6584600
0	0	0	0
0	588660	265550	334780
12973000	8895000	16143000	14778000
0	0	173530	382200
0	0	0	0
0	0	280080	321320
0	0	0	118320
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0	0	206460	0
0	975640	604320	895940
0	0	0	758220
2104600	2596000	2407900	3350400
2073200	0	0	259630
0	0	0	0
0	0	0	0
1032800	1060800	852240	1159100
0	0	0	201290
10015000	7862300	12574000	6496900
1100400	812730	798620	826830

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0	0	645660	655090
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0	0	0	0
688760	682120	560670	598900
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0	0	434850	454250
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0	0	0	0
0	0	0	31185
0	0	0	111110
892030	782560	669540	715610
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0	0	0	0
0	0	0	0
0	0	0	68892
0	0	581680	586550
0	0	0	0
0	0	0	0
1926000	1303600	2589100	2641700
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0	0	171900	201300
0	0	0	0
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0	0	0	0
0	0	0	0
2839800	2194300	2837300	1960700
0	384750	0	416510
0	0	0	172330
4195600	5742400	6993900	6943400
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0	0	0	0
0	0	985260	0
0	203680	174200	181980
0	0	0	131500
1552100	1461100	1372500	1443200
876160	1067900	1437400	1527200
499040	392430	550500	845970
0	0	0	0
0	0	0	0
4326100	5293400	4061800	8283700
20054000	28644000	17337000	27082000

1892600	1730500	1708200	2208200
699100	571660	556030	680160
1622300	1943200	1925800	1647400
3615100	2872000	3213800	2835600
1326100	1158300	1531900	2283700
0	0	0	0
0	0	0	0
3564000	3442100	4681500	4624500
879710	955480	993160	816090
0	0	0	325560
3093900	5617900	6617100	5154600
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0	0	0	154940
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663630	700040	852870	950100
1072800	266530	933820	1300600
3977400	3398200	4543500	3480300
0	0	0	137940
0	0	0	309620
0	0	0	132490
0	0	446150	745440
0	0	364720	462340
1383700	1349400	1265500	1474900
37835000	15879000	43253000	36571000
0	0	0	0
0	0	0	401690
0	234740	0	159370
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0	0	247210	0
0	207840	225240	281510
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0	0	329920	426430
2327300	2048600	2961800	2367100
0	969560	0	537170
0	0	0	0
1054600	354410	1769100	2684900
1917900	0	1377300	1703400
5423600	4047500	5285400	3030700
5051300	3082200	6960100	4495300
0	0	0	0
0	0	289390	305370
2300300	2817400	3585300	4323900
0	0	0	0
0	531750	0	236730
0	0	0	239830
0	0	0	0

504900	512130	417050	505330
387090	466320	401810	377680
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567910	652510	608160	668460
0	0	0	0
7027900	7188000	7787100	8026100
0	0	287230	365120
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0	0	0	0
0	0	0	0
2620500	2535200	2596000	1623600
0	0	927360	1151300
0	0	0	0
0	0	0	0
0	0	0	179210
12644000	11544000	16157000	17571000
0	0	0	49549
0	0	0	0
913070	0	1090400	908370
0	0	0	0
3694000	3946400	4427100	3924700
10789000	6238100	14864000	29653000
301180	363100	286820	178950
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0	0	0	0
0	0	0	0
0	0	822030	567590
0	0	1072300	882920
1921900	0	1568600	1693600
1853000	2053900	2249600	2561400
0	0	0	0
0	0	0	141310
0	0	0	410820
395370	0	0	302310
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854530	850130	767960	856500
1453600	1555400	1913000	2057800
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0	0	0	0
0	0	0	0
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405550	641160	877700	696700
0	0	121320	0

4783000	3514900	5461600	4174500
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0	347320	362320	282960
0	0	0	116940
0	0	0	0
3103700	3887500	2451900	4316600
0	583850	700870	815820
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0	0	95712	0
0	0	390290	265630
0	0	0	0
568630	691550	703830	792290
0	0	0	0
0	0	0	0
685290	0	652540	928120
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247600	0	243900	290370
0	0	242580	0
1191800	1418700	1947400	2427900
0	0	0	0
0	0	0	310680
0	0	0	103860
0	0	0	0
2709500	2046300	2420300	2589400
0	0	591110	533280
0	0	0	184470
19923000	15976000	19300000	14783000
0	0	0	637180
0	0	0	0
2546800	1165300	2241400	3340800
11003000	11279000	10450000	9714800
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	96879
0	0	0	0
0	0	0	0
0	0	0	0
1058400	1976200	2336700	2095400
0	0	0	0
0	0	0	215760
0	0	0	0
992070	727150	0	1077300
0	0	241790	1417600
0	0	0	0
0	0	0	0
0	0	0	0

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0	0	0	0
0	0	0	0
1400000	1225000	1744100	1725300
0	0	0	189720
0	0	0	0
775020	600750	604860	635180
0	0	0	0
2185900	2496500	2197500	2829500
0	0	0	0
0	0	0	107660
0	0	0	0
362900	314700	279380	329720
0	516210	350720	380290
0	0	0	0
0	0	0	0
0	0	0	205910
0	0	0	0
0	0	0	0
0	0	596180	604580
0	0	554060	544010
0	0	0	0
0	0	0	0
0	0	421150	504640
0	0	262220	247220
0	0	0	0
1015000	1564800	3926200	2150800
0	0	0	0
241970	0	0	160600
4530500	3779700	4201700	4667800
3128000	2935700	5014100	4476000
0	0	0	0
0	0	0	0
0	0	0	238340
0	0	769330	727040
4527800	1753900	9454700	16112000
0	0	0	0
586080	820400	669890	658260
0	0	0	0
0	0	0	0
1062600	965000	988560	1263900
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	202080
475520	0	566290	602950
0	0	0	0
0	0	0	0

0	0	90881	128070
0	0	0	0
0	0	0	0
0	0	289580	339690
0	0	565640	659870
0	0	0	0
0	0	0	414880
13296000	9562500	17163000	11082000
0	559760	417160	742390
1474300	1124500	1378300	1445200
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206770	258420	256110	217390
8373800	7260900	9419900	10378000
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0	0	0	17354
0	0	0	412350
0	0	0	0
0	0	0	234680
0	0	0	0
282920	0	242620	483280
0	0	0	0
0	0	0	0
3872500	3612100	3069900	4361300
0	0	0	0
0	505810	1001700	912850
0	794280	677490	907380
264380	0	269240	285670
0	0	0	138690
0	0	0	263500
0	0	0	0
6569300	5331400	5407400	5461500
0	0	0	0
0	0	0	0
0	0	0	194160
637340	0	630770	744140
0	0	0	0
0	0	0	138260
0	0	0	0
0	0	0	0
0	0	0	120890
0	0	0	0
185420	0	0	0
1456700	1195200	2320200	4827800
0	0	0	206250
0	0	0	0
1263200	1297000	2074400	1285800
0	0	0	458150
0	0	4187000	53501

1455700	1070200	1760200	1551100
0	0	0	163790
0	0	0	0
0	0	0	0
321880	0	315440	340570
0	0	0	0
0	0	0	220000
492370	0	403110	579060
0	0	0	108270
0	0	0	0
0	0	262640	374100
824070	0	761130	814420
0	0	0	0
5163000	4128200	8443200	5732200
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0	0	0	0
0	0	0	34759
689380	0	605670	499310
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0	0	275130	0
0	0	0	0
0	0	0	229930
0	0	0	342260
1180200	0	1488300	1423100
0	0	0	0
0	382960	362830	450050
0	0	0	93746
0	0	0	0
0	93720	0	0
22550000	16431000	23076000	21249000
0	0	0	0
1245600	2209600	5463700	6086700
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224050	0	154820	178450
0	0	249320	238340
0	0	358820	427340
0	0	0	0
0	0	0	0
0	0	0	0
1235500	869010	1871700	1981600
0	0	0	272130
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0	0	0	0
421890	0	0	346730
0	0	0	0
0	0	0	0

0	0	0	275450
1526100	1491400	1449200	1669600
1178400	1552000	1518900	1995700
0	0	0	80320
0	460330	451660	608460
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0	0	0	0
0	0	0	0
0	0	0	0
314720	251720	325050	222930
0	0	0	265850
0	0	0	0
0	0	0	0
1601000	1396700	1580400	2309300
0	0	355890	518800
0	0	0	0
0	0	0	0
0	0	0	22460
0	0	0	0
4078500	4619100	3794000	3900300
9567300	7733700	10347000	10768000
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0	0	0	0
4451800	5278900	3844700	4469800
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0	0	0	0
0	0	0	105750
0	0	0	0
609800	598670	489040	460930
697420	0	719780	949360
2655200	3862700	3485500	4883800
486060	481200	352730	406880
0	0	0	0
1643300	1369600	1135000	1514200
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0	0	0	0
0	0	0	326110
695970	0	704280	798180
0	0	533580	677950
691410	2473000	3295100	4693500
1302000	2729000	1634900	1503600
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0	0	0	0
0	0	0	0
0	0	368930	378340
0	0	0	277030
0	0	0	0
0	532760	508640	585370

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0	0	337100	335630
791900	0	781320	604500
0	0	0	0
0	0	0	139580
0	0	0	0
626840	994620	973470	792170
0	189910	224190	0
0	510390	751530	860580
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0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	296970	443360
0	0	387930	410480
2017400	1887600	2062800	2306300
0	0	385930	841910
0	0	402120	0
0	0	0	0
20023000	16415000	22954000	17036000
15273000	16157000	15416000	14928000
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0	0	0	0
0	0	234550	186390
0	0	0	195510
393980	0	339550	310240
0	0	0	0
0	0	172240	118360
0	0	181720	221680
206080	0	227480	146430
0	0	0	0
0	0	0	219670
0	0	0	0
1296300	1286900	1304600	1887600
0	0	0	0
0	0	0	0
0	0	0	163420
0	0	0	0
1649700	1432000	1546400	1726600
0	0	323640	0
739190	680970	715320	896380
0	0	0	0
7302600	7030200	6362500	6327400
0	0	0	203700
957700	1253000	900460	968230
741490	739770	578110	544800

0	0	209600	0
0	704570	721620	662550
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