

1 Data

The sequence data used to train and evaluate the LDA model described in this work are detailed below. This file contains the coding sequences from the training set.

A note on the identifiers used for each sequence: where possible, we have used the GenBank accession number as the identifier. For example, the sequence marked as AC07862.6_1 represents the BAC with GenBank accession number AC07862.6 and the _1 indicates an ORF within that BAC. If an identifier is of the form AF031926_1, then this indicates that it is the first entry in a GenBank record that contains multiple cds entries. GSS identifiers are drawn directly from dbGSS. Genomic contig ids are exactly those used by the Sanger Institute's sequence database. For ORFs drawn from Chromosomes I and II, the identifiers used by the Sanger Institute and The Institute for Genome Research (TIGR) were used without any modification.

Coding regions - Training Set

AF008186 *Trypanosoma brucei* 6-phospho-1-fructokinase (pfk) gene, complete cds.

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AF009711.1 97-614 hsp83 Coding

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AF011787 TRYPANOSOMA BRUCEI RIBOSOMAL PROTEIN L24
MRNA, COMPLETE CDS.

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CGCCAAGGGCAAAGCCGTGCGTGAGGAGATGGCTGCTCGT
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AF012853.1 77-1438 Trypanosoma brucei rhodesiense trypanin mRNA,
complete cds. Coding

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AF020696 TRYPANOSOMA BRUCEI RNA BINDING PROTEIN
(TBP37) MRNA, COMPLETE CDS.

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AF027739 TRYPANOSOMA BRUCEI MALATE DEHYDROGENASE
(MMDH) MRNA, NUCLEAR GENE ENCODING MITOCHONDRIAL
PROTEIN, COMPLETE CDS.

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AF028726.1 705-983 KMP-11/1 Coding

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AF031926.1 SMALL G-PROTEIN (RAB1)

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AF031926.2 TRYPANOSOMA BRUCEI CHAPERONE (DNAJ)

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AF042190 TRYPANOSOMA BRUCEI POLY(A) BINDING PROTEIN I
MRNA, COMPLETE CDS.

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AF047722.1 133-762 *Trypanosoma brucei rhodesiense* adenylate kinase
gene, complete cds, Coding

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AF048689.1 421-3162 PPK Coding

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AF049902.1 188-1144 Trypanosoma brucei rhodesiense activated protein kinase C receptor Coding

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AF074867.1 48-2027 Trypanosoma brucei rhodesiense lysosomal/endosomal membrane protein Coding

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(OPB) GENE, COMPLETE CDS.

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AF095907.1 667-3645 GDH Coding

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AF102869 TRYPANOSOMA BRUCEI SIR2 HOMOLOG (SIR2) GENE,
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AF169651.1 124-837 psa7 Coding

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AF174136.1 1271-2392 RAD51 Coding

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AF234189.1 814-1374 RAB11B Coding

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AF246237.1 805-1086 ACBP Coding

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AF253418.1 1077-2090 PKA3 Coding

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AF253418.2 4192-6054 PDE1 Coding

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AF263280.1 1770-3227 PDE2A Coding

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AF263280.2 4693-5073 NHP2 Coding

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AF290945.1 349-1005 *Trypanosoma brucei* 20S proteasome beta 7 subunit
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AF301417.1 178-1464 PAG2 Coding

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AF301417.2 1710-2702 PAG4 Coding

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AF319546.1 370-2832 *Trypanosoma brucei* C-terminal kinesin KIFC1 gene,
complete cds. TBKIFC1 Coding

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AF326975.2 1838-3337 RSU Coding

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AF355600.1 1-420 Trypanosoma brucei rhodesiense zinc finger protein 2 gene, complete Coding

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AF404111.1 316-3051 Rpn1 Coding

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AF421892.1 1413-2579 HDO1 Coding

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AF421894.1 584-2344 HDO4 Coding

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AJ005114.1 2196-2852 PEX11 Coding

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AJ131148.1 270-1070 Trypanosoma brucei rhodesiense mRNA for proteasome subunit alpha-6. Coding

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AJ297265.1 1-1350 rhodesain Coding

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GATTGGGTCCGTTGAGTATCATTGCTCCACCAACCCACCC
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AJ308037.1 1-1422 *Trypanosoma brucei brucei* gene for amino acid transporter AATP11. Coding

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AY009111.1 1-1251 MP48 Coding

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AY029070.1 789-3719 Trypanosoma brucei 3' terminal uridylyl transferase
(3' TUTase) Coding

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AY034830.1 718-2436 PUF1 Coding

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AY046919.1 552-1178 Trypanosoma brucei cell cycle associated protein
Mob1-1 gene, Coding

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AY046920.1 320-997 Trypanosoma brucei cell cycle associated protein
Mob1-2 gene, Coding

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AY049059.1 1-309 Trypanosoma brucei rhodesiense ZFP1 mRNA, complete
cds. Coding

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J02865.1 528-2021 T.brucei disulfide isomerase-like protein of unknown
function (BS2) disulphide isomerase-like protein Coding

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J03157.1 777-6074 *T.brucei* RNA polymerase IIA largest subunit
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J04124.1 240-1316 T.brucei glycosyl-phosphatidylinositol-specific
phospholipase C Coding

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J04841 717-6014 T.BRUCI RNA POLYMERASE IIB LARGEST
SUBUNIT (RPII197B) GENE, RNA POLYMERASE IIB LARGEST
SUBUNIT CODING

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K02836.1 1-1329 T.brucei rhodesiense alpha (complete) and beta tubulin
genes 1n 3.7 beta tubulin Coding

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K02836.2 1961-3316 T.brucei rhodesiense alpha (complete) and beta
tubulin genes 1n 3.7 alpha tubulin Coding

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L03778.1 605-1900 nrkA Coding

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L10721.1 247-879 Trypanosoma brucei hypoxanthine-guanine
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L14477 262-2223 TRYPANOSOMA BRUCEI BIP/GRP78 GENE,
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M14697.1 449-2434 T.brucei heat shock protein 70 (hsp 70) mRNA, (gene 4
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M20570.1 307-1725 T.brucei glycosomal protein p60 gene, complete cds.
glycosomal protein Coding

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M26803 76-3741 T.BRUCI DNA TOPOISOMERASE II (TOP2) GENE,
COMPLETE CDS. DNA TOPOISOMERASE II CODING

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POLYMERASE III LARGEST SUBUNIT (RPIII170) RNA
POLYMERASE III CODING

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CTTCCACACCGCAAACGACATCATCTGGTACCTCTTGCC
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M32139.1 331-2361 T.brucei heat shock-related protein gene, complete cds.
heat shock-related protein Coding

ATGACATACGAAGGCGCCATTGGTATCGACCTCGGTACGA
CGTACTCGTGCGTTGGTGTGTGGCAGAACGAACGTGTGGA
AATCATTGCAAATGACCAGGGTAACCGTACGACGCCGTCC
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M36124 223-657 T.BRUCI RIBOSOMAL PROTEIN S14 (RPS14)
GENE, COMPLETE CDS. CODING

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CGCATTGAAGACGTACACCCGGTGCCAACGGACTCCACTC
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M60653.1 708-2024 T.brucei posphoprotein gene, complete cds. putative

Coding ATGCGTCGCTTATTGTGTCTCTCACGCACTCGTGTTCCT
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CTTCTACTGAACACACGATGGAGGGGTACGGGACCAGTGT
CTATTATTTTATCCAAATTTGAGGGAATCTTATTAGGTTT
TGATCGATACCCGAGCACTATTTTGATGTTTAGTTAA

M73769 M37894.1 388-3423 T.brucei P-type ATPase gene, complete cds.

Coding ATGCTACCCGAGAACCTTCCAAC T GACCCCGCGGCGATGA
CACCTGCGGCGGTGGCGGCTGCGTTGCGTGTAGATACGAA
GGTTGGACTGAGTTCCAACGAGGTGGAGGAACGTCGCCAA
GCGTTTGGAATAAACGAACTGCCAAGTGAACCACCAACAC
CATTTTGGAAGCTAGTGCTGGCCCAGTTTGAAGATACGCT
CGTCCGTATTCTTCTGTTGGCCGCGACAGTAAGTTTTGCC
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M74167.1 413-1453 Trypanosoma brucei protein phosphatase 1 catalytic subunit mRNA, Coding

ATGAACTGTGACGAAATCATAAAGAACTCTTGCTCAATC
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U06644.2 1471-2127 *Trypanosoma brucei* 427-60 calflagin gene, complete cds. Coding

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U10562 55-1404 *TRYPANOSOMA BRUCEI* ELONGATION FACTOR-1
ALPHA MRNA, COMPLETE CDS. CODING

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U20092 294-1406 ADOMETDC CODING

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PROTEIN TBRRM1 GENE, CODING
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U24677.1 43-639 *Trypanosoma brucei rhodesiense* ras-related protein
RAB-4 mRNA, Coding

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U24678 210-902 TRYPANOSOMA BRUCEI RHODESIENSE
RAS-RELATED PROTEIN RAB-5 MRNA, CODING

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U26666 93-692 TRYPANOSOMA BRUCEI RHODESIENSE ALKYL
HYDROPEROXIDE CODING

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U28866 105-998 TRYPANOSOMA BRUCEI REISKE IRON-SULFUR
PROTEIN PRECURSOR GENE, CODING

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U29199 272-1978 HEL64 CODING

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U32987.1 28-951 *Trypanosoma brucei rhodesiense* ADP/ATP carrier
mRNA, complete cds. Coding

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U43702 146-1666 TRYPANOSOMA BRUCEI PUTATIVE NUCLEASE
GENE, COMPLETE CDS. CODING

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U43717 85-1725 TRYPANOSOMA BRUCEI FLAGELLAR
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U47286 1-582 TBL18LP CODING

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U52964 130-1167 AOX CODING

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U68270.1 79-612 cypA Coding

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U74470 109-1014 RNH1 CODING

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U96712 67-969 PDXK CODING

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X14399.1 442-5676 Trypanosoma brucei Trp11 gene for largest subunit of
RNA polymerase RNA polymerase I largest subunit (AA 1 - 1744) Coding

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X53464.1 58-759 Trypanosoma brucei mRNA for TBS-17. TBS-17 (AA
1-233) Coding

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X56511.1 S51745 362-811 T. brucei genes for calmodulin Coding

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X56511.3 S51745 2695-3081 *T. brucei* genes for ubiquitin. Coding
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X60951.1 S71823 95-1423 *T. brucei* pol associated gene 1 and pol gene for
DNA polymerase Coding

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X60951.2 S71823 1807-5826 pol Coding

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X62148 S48809.1 1283-2500 PAG1 Coding

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X91142.1 1-1065 *T.brucei* glycosomal NAD-dependent glycerol 3-phosphate

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X99951.1 316-975 *rab7* Coding

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Y12638.1 165-7376 p277 Coding

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