

Supplementary Table S2: Expression fold change of the genes detected in the RNAseq analysis in pools of RNA extracted from the interscapular brown adipose tissue of mice treated by daily oral gavage with live *D. welbionis* J115^T frozen in trehalose and fed a high fat-diet (HFD Live J115) and mice fed a high-fat diet (HFD) and treated by daily oral gavage with an equivalent volume of vehicle (experiment 3).

Refseq number	Fold-change (HFD-J115 / HFD)
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NM_001001495.2	0,23278905
NM_001001737.2	0,611183607
NM_001001806.2	0,850825363
NM_001001881.2	0,77101815
NM_001001979.2	2,17672878
NM_001001984.2	0,820197683
NM_001001985.3	1,110607893
NM_001002005.2	0,997667358
NM_001002267.2	1,113186736
NM_001002897.3	0,875146805
NM_001003666.2	1,08836439
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NM_001003817.1	0,953274665
NM_001003955.2	1,496501037
NM_001004139.2	0,832835359
NM_001004143.4	0,94869096
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NM_001004149.1	0,917059574
NM_001004178.1	0,956289449
NM_001004180.1	0,712619541
NM_001004190.3	0,848410036
NM_001004191.3	1,090265226
NM_001004363.1	0,906970325
NM_001004367.4	0,758227192
NM_001005341.3	1,032496707
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NM_001007567.2	0,798133886
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NM_001007570.2	1,067869351

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XR_384266.3	0,656360104
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