

Additional file 4. Codon usage in *R. toruloides* DAO1

TTA ^a	L ^b	0.3 ^c	TCA	S	0.5	TAA	-	0.0	TGA	-	0.0
TTC	F	1.9	TCC	S	2.2	TAC	Y	2.4	TGC	C	1.4
TTG	L	1.6	TCG	S	3.0	TAG	-	0.3	TGG	W	2.2
TTT	F	0.3	TCT	S	0.8	TAT	Y	0.5	TGT	C	0.3
CTA	L	0.0	CCA	P	1.1	CAA	Q	0.8	CGA	R	1.4
CTC	L	5.1	CCC	P	2.4	CAC	H	1.4	CGC	R	3.5
CTG	L	1.1	CCG	P	1.4	CAG	Q	3.0	CGG	R	2.2
CTT	L	1.1	CCT	P	1.1	CAT	H	0.8	CGT	R	0.3
ATA	I	0.0	ACA	T	0.5	AAA	K	0.3	AGA	R	0.3
ATC	I	3.5	ACC	T	1.1	AAC	N	1.9	AGC	S	1.6
ATG	M	1.1	ACG	T	3.5	AAG	K	4.6	AGG	R	1.1
ATT	I	5.4	ACT	T	0.5	AAT	N	0.0	AGT	S	0.3
GTA	V	0.5	GCA	A	1.6	GAA	E	1.6	GGA	G	0.5
GTC	V	4.3	GCC	A	1.9	GAC	D	3.5	GGC	G	6.0
GTG	V	2.4	GCG	A	3.3	GAG	E	4.3	GGG	G	1.6
GTT	V	1.1	GCT	A	1.6	GAT	D	1.1	GGT	G	1.4

^a Triplicate codon.

^b Amino acid residue.

^c Frequency of codon usage (%).