

Table A**Various deaminases annotated in *D. discoideum***

Gene	Gene ID
2-aminomuconate deaminase	DDB_G0275081
adenosine deaminase	DDB_G0287371
adenosine deaminase acting on tRNA 1	DDB_G0278943
adenosine deaminase, tRNA-specific	DDB_G0288099
adenosine deaminase-related growth factor	DDB_G0275179
AMP deaminase	DDB_G0292266
CMP/dCMP deaminase, zinc-binding domain-containing protein	DDB_G0282255 DDB_G0271914 DDB_G0286161 DDB_G0288019
cytidine deaminase	DDB_G0292096
cytidine deaminase-like protein	DDB_G0278841
cytidine/deoxycytidylate deaminase zinc-binding domain-containing protein	DDB_G0292096
dCTP deaminase	DDB_G0293580, DDB_G0268194
glucosamine-6-phosphate deaminase	DDB_G0278873, DDB_G0286195
guanine deaminase	DDB_G0277743
porphobilinogen deaminase	DDB_G0284697
putative arginine deaminase	DDB_G0289195
serine deaminase	DDB_G0272787
threonine deaminase	DDB_G0277245
glutamine synthetase	DDB_G0276835, DDB_G0295755
glutamate dehydrogenase	DDB_G0280319, DDB_G0287469
Glutaminase	DDB_G0291984
Allantoicase	DDB_G0280267
Aconitase	DDB_G0279159
Arginine deiminase	DDB_G0272182
Formimidoyl transferase-cyclo deaminase	DDB_G0287977
Fatty acid amide hydrolase	DDB_G0275967

Table B

Primers used for *adgf* semi-quantitative PCR

Primer	Sequence
P1	CCGAAGCTTAAAATGTTTTTAAAGTTTA
P2	ATAGAAATGAATGGCAAGTTAG
P3	GTTGAGAAATGTTAAATTGATCC
P4	TGGATGAGCACGCATATCAG

Table C

Primers used for *adgf* over expression and vector construction

Primer	Sequence
<i>adgf</i> OE FP	CCGAAGCTTAAAATGTTTTTAAAGTTTA
<i>adgf</i> OE RP	GGCGGTACCTTAAATATTTGAATAAGTATTA

Table D

Primers used for real time-PCR

Primer	Sequence
<i>adgf</i> FP	GTGGTGTATGATGCAATGGTAATG
<i>adgf</i> RP	TGGATGAGCACGCATATCAG
<i>ada</i> FP	GAAACGGGTAACTAAAGAGCAAG
<i>ada</i> RP	TGGATCATCAGAGGTTGAAGAAG
<i>adat</i> FP	ACCAATTTTCAGGAGAGTGGAC
<i>adat</i> RP	TTCCTAAACACCTATTACCAGTACC
<i>ada</i> -tRNA FP	GAACAAGACACGCAGAACTTG
<i>ada</i> -tRNA RP	GCACATCAAACATGGCTCTAC
<i>countin</i> FP	CAACCGGTAATGCTTTTGGT
<i>countin</i> RP	CACAAACGAGAGCTGACA
<i>smlA</i> FP	TGGATTACACCATGTTCAGCA
<i>smlA</i> RP	CCGACTGAAACTGATGCTTTGG
<i>acaA</i> FP	CATTCTAGAGGCGGTATTGGC
<i>acaA</i> RP	GGAGAAAATGTCTGATTTCGCTT
<i>carA</i> FP	ATGTTGGGTTGTATGGCAGTG
<i>carA</i> RP	AGGGAAACCACCATTGACAG
<i>pdsA</i> FP	CCATTGGGTACAACCTGGTGGA
<i>pdsA</i> RP	AACTGCCCATGATGGATAGGT
<i>regA</i> FP	TAAAGCAACGTTGGCACAAG
<i>regA</i> RP	ATGGTGATTCCATTGCTTCC
<i>pde4</i> FP	GATCTTGATACACCAATCGAA
<i>pde4</i> RP	CTTCTGCATCATCTGTACATG
<i>5'nt</i> FP	CAGCTGAACAAGTAGCAATGG
<i>5'nt</i> RP	TGGTGGAAGACTTGATGCTG
<i>cadA</i> FP	TTCCAAGAATTGGCTCAAGG
<i>cadA</i> RP	CATCAACTGCCCATTGAAAA
<i>csaA</i> FP	GCCAAATACAATCGCTGGTG
<i>csaA</i> RP	TGGTTGGTGTGAGATCAAAAGC
<i>ecmA</i> FP	CCAATTAGCTGTCCAAAACC
<i>ecmA</i> RP	GCAATCACCTTTACCTCCTG
<i>ecmB</i> FP	TGATTCATGTTGTTCAACTGG
<i>ecmB</i> RP	TAAATCATCGCCACATTTTCC
<i>pspA</i> FP	CATTGGCCAATCAAAATCCAG
<i>pspA</i> RP	ACAACAGTTGAAGCAGAACC
<i>rnIA</i> FP_qRT	TTACATTTATTAGACCCGAAACCAAGCG
<i>rnIA</i> RP_qRT	TTCCCTTTAGACCTATGGACCTTAGCG