

**Identification of ORC1/CDC6-interacting factors in *Trypanosoma brucei* reveals critical features of Origin Recognition Complex architecture**

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**Accession, or genome identification, numbers for the putative Origin Recognition Complex subunits used in this study.**

**1. Excavata.**

<i>Trichomonas vaginalis</i>	( <a href="http://trichdb.org/trichdb/">http://trichdb.org/trichdb/</a> )
Orc1	TVAG_340580
Orc2	TVAG_185790
Orc4	TVAG_365960
Cdc6	TVAG_376490
<i>Giardia intestinalis</i> (lamblia)	( <a href="http://giardiadb.org/giardiadb/">http://giardiadb.org/giardiadb/</a> )
Orc1/Cdc6	ctg02_20
Orc4	ctg02_3
<i>Trypanosoma brucei</i>	( <a href="http://tritrypdb.org/tritrypdb/">http://tritrypdb.org/tritrypdb/</a> )
ORC1/CDC6	Tb11.02.5110(EAN79686)
<i>Leishmania major</i>	( <a href="http://tritrypdb.org/tritrypdb/">http://tritrypdb.org/tritrypdb/</a> )
ORC1/CDC6	F28.0030(CAJ04600)
<i>Trypanosoma cruzi</i>	( <a href="http://tritrypdb.org/tritrypdb/">http://tritrypdb.org/tritrypdb/</a> )
ORC1/CDC6	Tc00.1047053511159.20(XP_806474)
<i>Naegleria gruberi</i>	( <a href="http://genome.jgi-psf.org/Naegr1/Naegr1.home.html">http://genome.jgi-psf.org/Naegr1/Naegr1.home.html</a> )
Orc1/Cdc6	jgi Naegr1 88228 LAD_fgenesHNG_pg.scaffold_35000178
Orc4	jgi Naegr1 45184 fgenesHS_pg.scaffold_1000274
Orc2	jgi Naegr1 88227 LAD_fgenesH2_pg.C_scaffold_19000304
Orc6	jgi Naegr1 88231 LAD_query

**2. Chromalveolata**

<i>Thalassiosira pseudonona</i>	( <a href="http://genome.jgi-psf.org/Thaps3/Thaps3.home.html">http://genome.jgi-psf.org/Thaps3/Thaps3.home.html</a> )
Orc1a	Thaps3 263879 thaps1_ua_kg.chr_12000030
Orc1b (Cdc6b)	fgenesH1_pg.C_chr_6000022 [Thaps3:5867]
Orc2	jgi Thaps3 260866 thaps1_ua_kg.chr_1000126
Cdc6	jgi Thaps3 8536 fgenesH1_pg.C_chr_10000306
<i>Cryptosporidium parvum</i>	( <a href="http://cryptodb.org/cryptodb/">http://cryptodb.org/cryptodb/</a> )
Orc1	cgd4_4320
Orc2	cgd4_1930
Orc4	cgd2_1550
Orc5	cgd4_430
Cdc6	cgd7_2310
<i>Theileria annulata</i>	( <a href="http://old.genedb.org/genedb/annulata/">http://old.genedb.org/genedb/annulata/</a> )
Orc1	TA04740
Orc2	TA19765
Orc4	TA12985
Cdc6	TA14555
<i>Plasmodium falciparum</i>	( <a href="http://plasmodb.org/plasmo/">http://plasmodb.org/plasmo/</a> )
Orc1	PFL0150w
Orc2	MAL7P1.21
Orc4	PF13_0189
Orc5	PFB0720c
Cdc6	PFE0155w
<i>Tetrahymena thermophila</i>	( <a href="http://ciliate.org/index.php/home/welcome">http://ciliate.org/index.php/home/welcome</a> )
Orc1	154.m00093
Orc2	104.m00101
Orc4	51.m00235
Orc5	142.m00114
Cdc6	50.m00158

### 3. Plantae

#### *Arabidopsis thaliana*

Orc1a	CAD13174
Orc2	Q38899
Orc3	AAT37463
Orc4	CAE01428
Orc5	NP_194720
Orc6	Q9ZVH3
Cdc6	CAC81074

### 4. Amoebozoa

#### *Entamoeba histolytica*

([http://www.sanger.ac.uk/cgi-bin/blast/submitblast/e\\_histolytica](http://www.sanger.ac.uk/cgi-bin/blast/submitblast/e_histolytica))

Orc1	EHI_105150
Cdc6	EHI_192770

#### *Dictyostelium discoideum*

(<http://dictybase.org/>)

Orc1	DDB0218435
Orc2	DDB0190652
Orc3	DDB0216767
Orc4	DDB0168430
Orc5	DDB0191826
Orc6	DDB0186183
Cdc6	DDB0203551

### 5. Opisthokonta

#### *Encephalitozoon uniculi*

(<http://microsporidiadb.org/micro/>)

Orc1	NP_597612
Orc2	NP_586228
Orc5	NP_597618
Cdc6	XP_955574

#### *Saccharomyces cerevisiae*

Orc1	P54784
Orc2	P32833
Orc3	P54790
Orc4	P54791
Orc5	P50874
Orc6	P38826
Cdc6	NP_012341

#### *Drosophila melanogaster*

Orc1	AAF59236.1
Orc2	AAF55006.1
Orc3	AAD39472.1
Orc4	AAF47276.1
Orc5	AAF53340.1
Orc6	AAF58890.1

#### *Homo sapiens*

Orc1	Q13415
Orc2	Q13416
Orc3	Q9UBD5
Orc4	O43929
Orc5	O43913
Orc6	Q9Y5N6
Cdc6	NP_001245