

Table S5. Lateral Transfer of *Trypanosoma cruzi* kDNA Minicircle Sequences Provoking Gene Knock-out into the Human Genome

Patient	Gene	Function	GeneBank	E-value	Similarity
5	PARP-1	ADP-ribosyltransferase	emb AL359742.15	1.0e ⁻¹²	LINE-1 (0.012)
5)	CNTNAP2	Adhesion molecules and receptors in the vertebrate nervous system	ref NG_007092.2 	4.0e ⁻³⁸	LINE-1 (8.0e ⁻¹⁴)
15	OR1-17	Olfactory receptor	tpg BK004196.1	7.0e ⁻¹⁷	--
19	ADAM-23	Implicated in cell-cell and cell-matrix interactions including fertilization, muscle development. and neurogenesis. It is highly expressed in the brain where it may function as an integrin ligand.	gb AC009225.4 	0	--
26	CLIC-5	chloride intracellular channel	emb AL355522.11 	2.0e ⁻¹³⁷	--
28	TRIM69	Member of the RING-B-box-coiled-coil (RBCC) family it encodes a protein with an N-terminal RING finger motif. a PRY domain and a C-terminal SPRY domain.	dbj AK292252.1 	2.0e ⁻⁴⁵	--
30	OR1-17	Olfactory receptor	tpg BK004196.1	2.0e ⁻¹⁶	--
36	Theta-14-3-3	Mediate signal transduction by binding to phosphoserine-containing proteins. Upregulated in patients with amyotrophic lateral sclerosis.	gb BC001197.1 	0	Transposon (0)
44)	PHD finger protein 15	Several PHD fingers acting as binding modules of methylated histone H3.	ref NM_015288.4	3.0e ⁻⁹³	--
56	OR1-17	Olfactory receptor	tpg BK004196.1	2.0e ⁻²⁰	--
63	citb-109	--	gb AC005871.3 AC005871	2.0e ⁻¹³⁶	--
69	Haplotype HLA	Major histocompatibility complex class I	gb DQ249181.1 	0	LINE-1 (1.0e ⁻¹⁰²)
74	OR1-17	Olfactory receptor	tpg BK004196.1	2.0e ⁻²⁰	--

75	Tyrosine -phosphatase	Protein tyrosine-phosphatase. receptor type	embjAL590397.7	$5.0e^{-132}$	--
81	OR1-17	Olfactory receptor	tpg BK004196.1	$6.0e^{-14}$	--
82	OR1-17	Olfactory receptor	tpg BK004196.1	$3.0e^{-9}$	--
82	OR1-17	Olfactory receptor	tpg BK004196.1	$1.0e^{-18}$	--