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Infection with CagA-positive *Helicobacter pylori* strain containing three EPIYA C phosphorylation sites is associated with more severe gastric lesions in experimentally infected Mongolian gerbils (*Meriones unguiculatus*)

M. Ferreira Júnior,¹ S.A. Batista,² P.V.T Vidigal,³ A.A.C. Cordeiro,¹ F.M.S. Oliveira,¹ L.O. Prata,¹ A.E.T. Diniz,⁴ C.M. Barral,⁴ R.C. Barbuto,⁴ A.D. Gomes,² I.D. Araújo,⁴ D.M.M. Queiroz,^{2§} M.V. Caliari^{1§}

¹Department of General Pathology, Institute of Biological Sciences, Federal University of Minas Gerais, Belo Horizonte

²Laboratory of Research in Bacteriology, Faculty of Medicine, Federal University of Minas Gerais, Belo Horizonte

³Department of Anatomical Pathology, Faculty of Medicine, Federal University of Minas Gerais, Belo Horizonte

⁴Surgery Department, Faculty of Medicine, Federal University of Minas Gerais, Belo Horizonte, MG, Brazil

§Joint senior authors

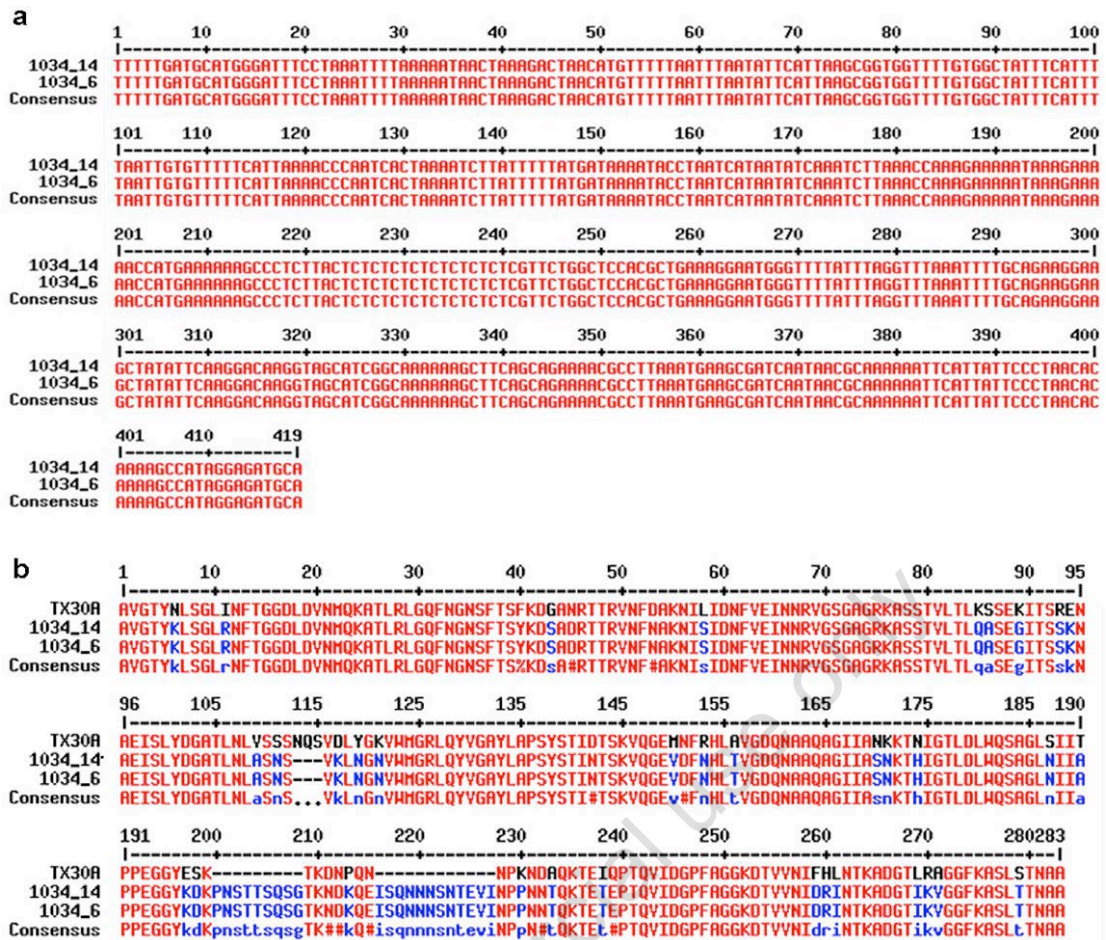
Correspondence: Prof. Marcelo Vidigal Caliari, Department of General Pathology, Institute of Biological Sciences, Federal University of Minas Gerais, Av. Antônio Carlos 6627, Belo Horizonte, MG, CEP 31 270-010, Brazil. Tel. +55.31.34092892 - Fax: +55.31.34092879. E-mail: caliari@icb.ufmg.br

Supplementary Table 1. Primers and PCR conditions.

Gene	Gene product or inferred function	Conditions of PCRs	Primers	Length (bp)
<i>efp</i>	Elongation factor EF-P	94°C-2 min, 94°C-30 s and 30 cycles of 56°C-30 s and 72°C-1 min, and a final extension 72°C-5 min	F: 5'-GGCAATTGGATGAGCGAGCTC-3' R: 5'-CTTACCTTTTCAAGATACTC-3'	410
<i>yphC</i>	GTPase	94°C-2 min, 94°C-30 s and 30 cycles of 55°C-30 s and 72°C-1 min, and a final extension 72°C-5 min	F: 5'-CACGCCTATTTTTTGGACTAAAAAC-3' R: 5'-CATTYACCTCCCAATGATGC-3'	510
<i>atpA</i>	ATP synthase, F1a	94°C-2 min and 94°C-30 s; 30 cycles of 56°C-30 s and 72°C-1 min, and a final extension 72°C-5 min	F: 5'-GGACTAGCGTAAACGCACG-3' R: 5'-CTTAAAACCGACAAGCCAC-3'	627
<i>ureI</i>	Urease accessory protein	94°C-2 min and 94°C-30 s; 30 cycles of 53°C-30 s and 72°C-1 min, and a final extension 72°C-5 min	F: 5'-AGGTTATTCGTAAGGTGCG-3' R: 5'-GTTAAAATCCCTTAGATTGCC-3'	585
<i>mutY</i>	A/G-specific adenine glycosylase	94°C-2 min, 94°C-30 s and 30 cycles of 56°C-30 s and 72°C-1 min, and a final extension 72°C-5 min	F: 5'-GTGGTTGTAGYTGAAACTTTACAC-3' R: 5'-CTTAAAGCGTGTGTYTTTCTAGG-3'	420
<i>ureA</i>	Urease protein	95°C-5min and 35 cycles of 94°C-1 min 45°C-1 min, and 72°C-1 min and a final extension 72°C-5 min	F: 5'-GCCAATGGTAAATTAGTT-3' R: 5'-CTCCTTAATTGTTTTTAC-3'	411
<i>CagA</i>	Cytotoxin-associated gene	95°C-5 min and 38 cycles of 94°C-1 min, 55°C-1 min and 72°C-2 min, and a final extension 72°C-7 min	F: 5'-GATAACAGGCAAGCTTTTGAGG-3' R: 5'-CTGCAAAAGATTGTTGCGAGA-3'	349
<i>CagA EPIYA-C motif</i>	Cytotoxin-associated geneposphorilation sites	35 cycles of 95°C-1 min, 50°C-1 min and 72°C-1 min and a final extension 72°C-7 min	F: 5'-ACCCTAGTCGGTAATGGGTTA-3' R: 5'-GTAATTGTCTAGTTTCG-3'	640 - 850
<i>cagE</i>	Cytotoxin-associated gene	95°C-5 min, 95°C-30 s and 35 cycles of 55°C-30 s and 72°C-1 min, and a final extension 72°C-7 min	F: 5'-TTGAAAACCTCAAGGATAGGATAGAGC-3' R: 5'-GCCTAGCGAAATATCACCATTACCC-3'	508
<i>cagL</i>	Cytotoxin-associated gene	95°C-5 min, 95°C-30 s and 35 cycles of 55°C-30 s and 72°C-1 min, and a final extension 72°C-7 min	F: 5'-CACAAAATGCCCTATCTTG-3' R: 5'-CTACAAGCGTCTGTGAAG-3'	880
<i>cagT</i>	Cytotoxin-associated gene	95°C-5min, 95°C-30 s and 35 cycles of 55°C-30 s and 72°C-1 min, and a final extension 72°C-7 min	F: 5'-GGGAGCTTAGTGCCATACAA-3' R: 5'-TCATCTTTC ACGCAGAGC-3'	842
<i>cagX</i>	Cytotoxin-associated gene	95°C-5 min, 95°C-30 s and 35 cycles of 55°C-30 s and 72°C-1 min, and a final extension 72°C-7 min	F: 5'-CAATGGCGGCATCAGTCATGCTCAA-3' R: 5'-ACTTATCGTAGATGCGCTGACC-3'	937
<i>cagY</i>	Cytotoxin-associated gene	95°C-5 min and 95°C-30 s and 35 cycles of 55°C-30 s and 72°C-1 min, and a final extension 72°C-7 min	F: 5'-CTTGCGGATCGTTGCTATCT-3' R: 5'-GAAACAAGCCCTGTCAAACAGG-3'	1041
<i>vacAi/d</i>	Vacuolatingcytotoxin	95°C-5 min and 95°C-30 s and 35 cycles of 55°C-30 s and 72°C-1 min, and a final extension 72°C-7 min	F: 5'-TTCAATGGCAATTCTTTCACAAGC-3' R: 5'-GCAAAAGGCCATCAATGACTT-3'	576 - 635
<i>vacAs</i>	Vacuolatingcytotoxin	95°C-5 min and 35 cycles of 95°C-1 min, 52°C-1 min and 72°C-1 min, and a final extension 72°C-4 min	F: 5'-ATGGAAATACAACAAACACAC-3' R: 5'-CTGCTTGAATGCGCCAAAC-3'	s1=259 s2=286
<i>vacAm</i>	Vacuolatingcytotoxin	95°C-5 min and 35 cycles of 95°C-1 min, 52°C-1 min and 72°C-1 min, and a final extension 72°C-4 min	VAR7-F: 5'-GTAATGGTGGTTTCAACACC-3' VAR7-R: 5'-TAATGAGATCTTGAGCGCT-3'	m1=630-705
<i>vacAm</i>	Vacuolatingcytotoxin	95°C-5 min and 35 cycles of 95°C-1 min, 52°C-1 min and 72°C-1 min, and a final extension 72°C-4 min	VAR4-F: 5'-GGAGCCCAGGAAACATTG-3' VAR4-R: 5'-CATAACTAGCGCCTTGAC-3'	m2=352
<i>dupA^A</i>	Duodenal ulcer protein	95°C-5min; and 35 cycles of 95°C-30 s and 55°C-30 s and 72°C-30 s, and a final extension 72°C-5 min	F: 5'-ATAAAGAATTGCAAGATAAAGC-3' R: 5'-TTCTAAAACGCGGTGAAAAGC-3'	589

Gene	Gene product or inferred function	Conditions of PCRs	Primers	Length (bp)
<i>dupA^B</i>	Duodenal ulcer protein	95°C-5 min and 35 cycles of 95°C-30 s and 55°C-30 s and 72°C-30 s, and a final extension 72°C-5 min	F: 5'-CAAATGGTTTCTACTGACAG-3' R: 5'-ATTCTGTCAAGAGCTACCAC-3'	500
<i>dupA^C</i>	Duodenal ulcer protein	95°C-5 min and 35 cycles of 95°C-30 s and 55°C-30 s and 72°C-30 s, and a final extension 72°C-5 min	F: 5'-ATGATAATTGGTGTAGCACAG-3' R: 5'-CCCATAAGTTTTTATCATT-3'	528
<i>dupA^D</i>	Duodenal ulcer protein	95°C-5 min and 35 cycles of 95°C-30 s and 55°C-30 s and 72°C-30 s, and a final extension 72°C-5 min	F: 5'-GCTTCTCAGTCTATAGATAAG-3' R: 5'-CATCAGTATCTTTTGTGGGG-3'	523
<i>dupA^E</i>	Duodenal ulcer protein	95°C-5 min and 35 cycles of 95°C-30 s and 55°C-30 s and 72°C-30 s, and a final extension 72°C-5 min	F: 5'-ATTGATGAAACTAAAGACTAC-3' R: 5'-CTTCTATGATAAATACGCAG-3'	517
<i>oipA</i>	Outer inflammatory protein	95°C-5 min and 35 cycles of 95°C-30 s and 55°C-30 s and 72°C-40 s, and a final extension 72°C-5 min	F: 5'-GTTTTTGTGATGCATGGGATTT-3' R: 5'-GTGCATCTCTTATGGCTT-3'	401
<i>IceA2</i>	Induced by contact with epithelium factor	95°C-5 min and 35 cycles of 95°C-30 s and 50°C-45s and 72°C-45 s, and a final extension 72°C-5 min	F: 5'-GTTGGGTATATCACAAATTTAT-3' R: 5'-TTRCCCTATTTTCTAGTAGGT-3'	334
<i>RAPD-PCR</i>		94°C-5 min 4 cycles 6°C-5 min and 72°C-5 min 94°C-1 min, 36°C-1 min and 72°C-2min,30 cycles and a final extension 72°C-10 min	1254 F: 5'- CCGCAGCCAA - 3' 1281 F: 5' - AACGCGCAAC - 3'	-

Non commercial use



Supplementary Figure 1. Identical sequences of *oipA* gene with 9 repeated CT located between 223 and 240 position (a) and amino acids sequences of *VacA* i (113 to 117 position) and d (200 to 227 position) regions (b) of the two isolates, 1034-14 and 1034-6, that are *vacA*i1/d1. In (b) the sequences of the isolates were compared with those of the collection strain TX30A that is *vacA* i2/d2.