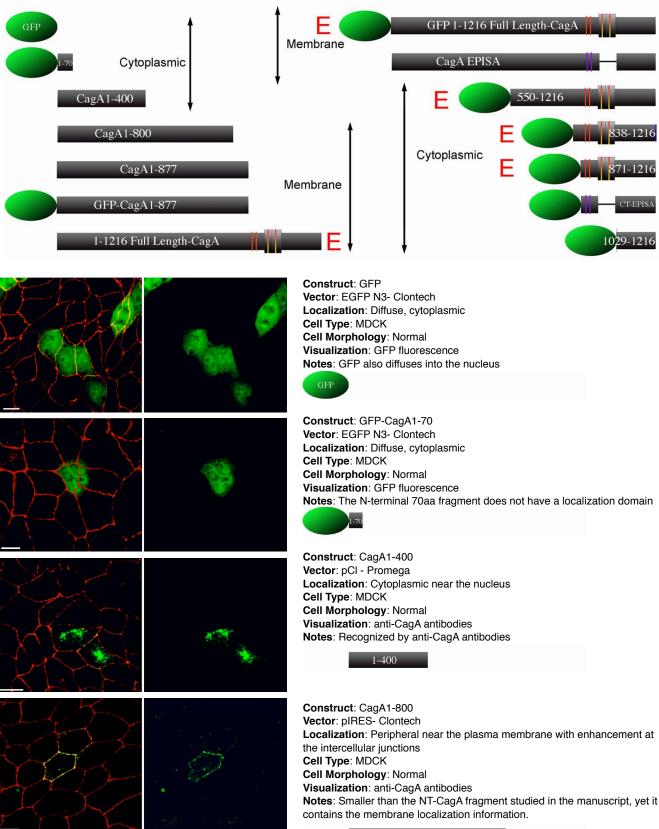
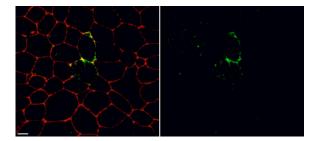
CagA fragments, their localization and effect on MDCK or AGS cell morphology (E = elongated).

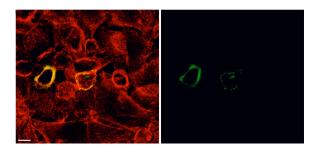


CagA1-800



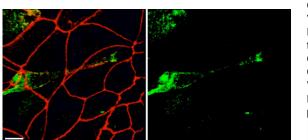
Construct: CagA1-877 or NT-CagA Vector: pIRES- Clontech Localization: Peripheral near the plasma membrane with enhancement at the intercellular junctions Cell Type: MDCK Cell Morphology: Normal Visualization: anti-CagA antibodies Notes: NT-CagA has the same localization whether visualized by antibodies or through the GFP tag. See Fig. 4.

CagA1-877



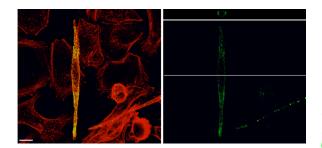
Construct: GFP-CagA1-877 or GFP-NT-CagA Vector: EGFP C3- Clontech Localization: Peripheral near the plasma membrane Cell Type: AGS Cell Morphology: Normal Visualization: GFP fluorescence Notes: The NT-CagA fragment localizes near the membrane in unpolarized AGS cells.





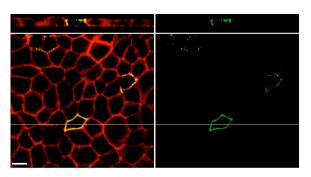
Construct: CagA1-1216 or Full Length CagA Vector: pIRES- Clontech Localization: Peripheral near the plasma membrane with enhancement at the intercellular junctions. Causes junction disruption Cell Type: MDCK Cell Morphology: Elongated. Loss of polarity Visualization: anti-CagA antibodies Notes: The GFP tagged version described in the manuscript has identical properties.





Construct: GFP-CagA1-1216 or Full Length GFP-CagA Vector: EGFP C3- Clontech Localization: Peripheral near the plasma membrane. Cell Type: AGS Cell Morphology: Elongated Visualization: GFP fluorescence Notes: This is the same construct used in the manuscript but expressed in AGS cells. The cross section visualizes the protein near the membrane. Compare to GFP-CT-CagA.

GFP 1-1216 Full Length-CagA



Construct: CagAEPISA **Vector**: pIRES-Clontech

Localization: Peripheral near the plasma membrane with enhancement at the intercellular junctions.

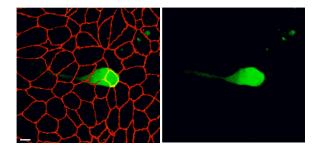
Cell Type: MDCK

Cell Morphology: Normal

Visualization: anti-CagA antibodies

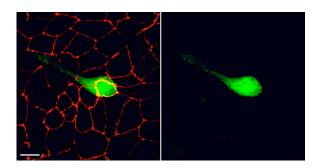
Notes: This construct lacks the last two EPIYA repeats and in the first two, the tyrosines have been replaced by serine. The protein is not tyrosine phosphorylated. Cross sections at the top. This monolayer is counterstained with phalloidin.

CagA EPISA



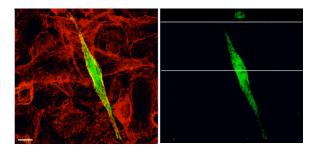
Construct: GFP-CagA550-1216 Vector: pIRES- Clontech Localization: Diffuse throughout the cell cytoplasm. Cell Type: MDCK Cell Morphology: elongated Visualization: GFP fluorescence Notes: Larger construct than CT-CagA. It causes the same phenotypes as GFP-CT-CagA





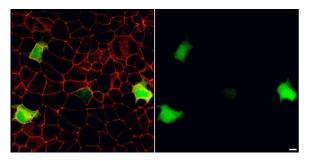
Construct: CT-CagA838-1216-FLAG Vector: EGFP C3- Clontech Localization: Diffuse throughout the cell cytoplasm. Cell Type: MDCK Cell Morphology: elongated Visualization: GFP fluorescence Notes: This construct behaves like the CT-CagA fragment and also has a Cterminal FLAG tag for immunoprecipitation.





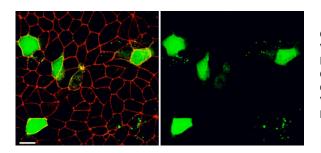
Construct: GFP-CagA871-1216 or GFP-CT-CagA Vector: pIRES - Clontech Localization: Diffuse throughout the cell cytoplasm. Cell Type: AGS Cell Morphology: elongated Visualization: GFP fluorescence Notes: CT-CagA expressed in AGS cells causes elongation. Cross section shown at top of GFP image shows cytosolic distribution.





Construct: GFP-CT-EPISA Vector: pIRES- Clontech Localization: Diffuse throughout the cell cytoplasm. Cell Type: MDCK Cell Morphology: Normal Visualization: GFP fluorescence Notes: Based on CT-CagA, it lacks the last two EPIYA repeats and has the tyrosines mutated to serine in the first two EPIYA motifs.





Construct: GFP-CagA1029-1216 Vector: pIRES- Clontech Localization: Diffuse throughout the cell cytoplasm. Cell Type: MDCK Cell Morphology: Normal Visualization: GFP fluorescence Notes: This construct lacks all the EPIYA motifs.

