

## Species *Hominiventricola aquisgranensis*

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### Etymology

[a.kwis.gra.nen'sis] **N.L. masc. adj.** *aquisgranensis*, named after the German city of Aachen (Latin name Aquisgranum) where it was isolated

### Nomenclatural type

Strain: CLA-AA-H78B = DSM 111355 = LMG 33583

### Description

The genome size is 3.17 Mbp, G+C percentage is 45.01%, with 99.37% completeness and 0.27% contamination, including a single plasmid of 7,983 bp. The closest relative to strain CLA-AA-H78B was *Hominiventricola filiformis* (96.24%) based on 16S rRNA gene analysis. POCP analysis confirmed genus assignment to *Hominiventricola*, with a POCP value of 69.06% to the type strain of the only current species within this genus, *H. filiformis*. GTDB-Tk classified strain CLA-AA-H78B as '*Choladocola* sp003480725' within "*Candidatus Choladocola*". The latter is a heterosynonym of *Hominiventricola*, a validly published name. ANI comparison confirmed that strain CLA-AA-H78B represents a novel species as the ANI value to *H. filiformis* was 82.98%. Functional analysis showed the strain has 134 transporters, 31 secretion genes, and predicted utilization of cellobiose, starch, arbutin, salicin, and production of L-glutamate, folate, acetate, propionate, and cobalamin. In total, 134 CAZymes were identified. The strain CLA-AA-H78B (phylum Bacillota, family Lachnospiraceae) was isolated from human faeces.

### Classification

*Bacteria* » *Bacillota* » *Clostridia* » *Lachnospirales* » *Lachnospiraceae* » *Hominiventricola* » *Hominiventricola aquisgranensis*

### References

Effective publication: Hitch et al., 2025 [1]

### Registry URL

<https://seqco.de/i:48058>

## References

1. Hitch et al. (2025). HiBC: a publicly available collection of bacterial strains isolated from the human gut. *Nature Communications*. DOI:10.1038/s41467-025-59229-9