

**Supplementary Material to “Mismatch uracil DNA glycosylase
(Mug) is maintained in the *Corynebacterium pseudotuberculosis*
genome and exhibits affinity for uracil but not other types of
damage.”**

Table S1 – List of bacteria species used in the study, contemplating genome size (Mb) and presence of the *mug* gene.

Specie	Access code	Genome (Mb)	Mug	Specie	Access code	Genome (Mb)	Mug
<i>C. accolens</i>	ACGD00000000.1	2.46	-	<i>C. doosanense</i>	CP006764.1	2.67	-
<i>C. afermentans</i>	GCA_900156035.1 WP_063937359.1	2.32	+	<i>C. durum</i>	GCA_001557475.1	3.40	-
<i>C. ammoniagenes</i>	CP009244.1	2.79	-	<i>C. efficiens</i>	GCA_000011305.1	3.20	-
<i>C. amycolatum</i>	ABZU00000000.1	2.51	-	<i>C. endometrii</i>	CP039247.1	2.47	-
<i>C. appendicis</i>	GCA_900156665.1 WP_084560468.1	2.24	+	<i>C. epidermidicanis</i>	CP011541.1	2.69	-
<i>C. aquilae</i>	CP009245.1	2.92	-	<i>C. falsenii</i>	CP007156.1	2.38	-
<i>C. argentoratense</i>	CP006365.1	2.02	-	<i>C. flavescens</i>	CP009246.1	2.67	-
<i>C. atypicum</i>	GCA_000732945.1	2.35	-	<i>C. frankenforstense</i>	CP009247.1	2.60	-
<i>C. auriscanis</i>	GCA_000767255.1	2.56	-	<i>C. freiburgense</i>	GCA_000428805.1	2.91	-
<i>C. aurimucosum</i>	CP001601.1	2.73	-	<i>C. freneyi</i>	GCA_000758965.1	3.04	-
<i>C. belfantii</i>	GCA_900205605.1 WP_088266860.1	2.39	+	<i>C. genitalium</i>	CM000961.1 WP_005290455.1	2.33	+
<i>C. bouchesdurh onense</i>	GCA_900078305.2	2.25	-	<i>C. geronticis</i>	GCA_003813985.1 WP_123933466.1	2.26	+
<i>C. bovis</i>	AENJ00000000.1	2.52	-	<i>C. glaucum</i>	CP019688.1 WP_095659816.1	2.51	+

Specie	Access code	Genome (Mb)	Mug	Specie	Access code	Genome (Mb)	Mug
<i>C. callunae</i>	GCA_000344785.1	2.90	-	<i>C.glucuronolyticum</i>	GCA_900176155.1 WP_070741595.1	2.82	+
<i>C. camporealensis</i>	GCA_000980815.1	2.45	-	<i>C. glutamicum</i>	CP025533.1	3.27	-
<i>C. canis</i>	CP004350.1	2.96	-	<i>C. glyciniphilum</i>	CP006842.1	3.57	-
<i>C. capitovis</i>	AQUV00000000.1	1.96	-	<i>C. godavarianum</i>	GCA_007559235.1	2.52	-
<i>C. casei</i>	CP004350.1 WP_025387784.1	3.11	+	<i>C. gottingense</i>	GCA_003693265.1 WP_095553070.1	2.62	+
<i>C. caspium</i>	ARBM00000000.1	1.84	-	<i>C. hadale</i>	GCA_002285075.1	2.57	-
<i>. ciconiae</i>	AQUW00000000.1	2.54	-	<i>C. halotolerans</i>	CP003697.1 WP_015400496.1	3.20	+
<i>C. coyleae</i>	GCA_900105505.1 WP_101740223.1	2.48	+	<i>C. heidelbergense</i>	GCA_003285565.1	2.29	-
<i>C. crenatum</i>	GCA_000380545.1	3.34	-	<i>C. humireducens</i>	CP005286.1 WP_052437776.1	2.65	+
<i>C. cystitidis</i>	FOGQ00000000.1	2.98	-	<i>C. jeikeium</i>	CR931997.1	2.41	-
<i>C. dentalis</i>	GCA_900232865.1	2.30	-	<i>C. kefirresidentii</i>	GCA_002154655.1	2.62	-
<i>C. deserti</i>	CP009220.1	3.03	-	<i>C. kutscheri</i>	CP011312.1	2.37	-
<i>C. diphtheriae</i>	GCA_001457455.1 WP_014318830.1	2.44	+	<i>C. lactis</i>	CP006841.1	2.66	-
<i>C. lipophiloflavum</i>	ACHJ00000000.1	2.38	-	<i>C.pyruviciproducens</i>	GCA_002847965.1	2.79	-
<i>C. lowii</i>	GCA_001412085.1	2.35	-	<i>C. renale</i>	GCA_900478035.1	2.33	-
<i>C. lubricantis</i>	GCA_000379425.1	2.94	-	<i>C. resistens</i>	CP002857.1	2.60	-
<i>C. macginleyi</i>	GCA_003688935.1 WP_121911730.1	2.41	+	<i>C. riegelii</i>	GCA_001263755.1	2.53	-
<i>C. marinum</i>	CP007790.1 WP_042621265.1	2.72	+	<i>C. sanguinis</i>	GCA_007641235.1	2.32	-
<i>C. maris</i>	CP003924.1 WP_020934425.1	2.83	+	<i>C. segmentosum</i>	GCA_900637825.1	2.37	-
<i>C. massiliense</i>	ATVG00000000.1 WP_022862571.1	2.18	+	<i>C. senegalense</i>	GCA_900411315.1 WP_115684769.1	2.31	+
<i>C. mastidis</i>	GCA_002835695.1	2.31	-	<i>C. simulans</i>	CP014634.1	2.65	-
<i>C. matruchotii</i>	ACSH00000000.2	2.85	-	<i>C. singulare</i>	GCA_007666555.1	2.85	-

Specie	Access code	Genome (Mb)	Mug	Specie	Access code	Genome (Mb)	Mug
<i>C. minutissimum</i>	LS483460.1	2.69	-	<i>C. sputi</i>	GCA_000427865.1	2.91	-
<i>C. mustelae</i>	GCA_001020985.1	3.47	-	<i>C. sphenisci</i>	GCA_001941505.1	2.59	-
<i>C. mycetoides</i>	LT629700.1	2.34	-	<i>C. spheniscorum</i>	GCA_008693095.1	2.45	-
<i>C. nuruki</i>	CP042429.1	3.10	-	<i>C. stationis</i>	GCA_001941345.1	2.85	-
<i>C. oculi</i>	GCA_001412105.1	2.41	-	<i>C. striatum</i>	CP021252.1	2.85	-
<i>C. otitidis</i>	GCA_000296405.1 WP_004601640.1	2.14	+	<i>C. tapiri</i>	GCA_006334925.1 WP_139465212.1	2.25	+
<i>C. pacaense</i>	GCA_900169525.1	3.03	-	<i>C. terpenotabidum</i>	CP003696.1	2.75	-
<i>C. pilosum</i>	AREP00000000.1	2.54	-	<i>C. ulcerans</i>	CP002791.1 WP_029975220.1	2.49	+
<i>C. pollutisoli</i>	GCA_900177745.1 WP_085549768.1	2.54	+	<i>C. ulceribovis</i>	GCA_000372445.1	2.30	-
<i>C. propinquum</i>	GCA_000375525.1	2.55	-	<i>C. urealyticum</i>	AM942444.1	2.36	-
<i>C. provencense</i>	GCA_003209395.1	3.08	-	<i>C. ureicelerivorans</i>	GCA_000747315.1	2.32	-
<i>C. pseudodiphtheriticum</i>	JIAH00000000.1	2.32	-	<i>C. urinapleomorphum</i>	GCA_900155535.1 WP_087116800.1	2.26	+
<i>C. pseudogenitalium</i>	ABYQ00000000.2	2.60	-	<i>C. variable</i>	CP002917.1 AEK37247.1	3.18	+
<i>C. pseudopelargi</i>	GCA_003814005.1 WP_123960591.1	2.34	+	<i>C. vitaeruminis</i>	CP004353.1	2.71	-
<i>C. pseudotuberculosis</i>	NC_017301.1 WP_013241493.1	2.33	+	<i>C. xerosis</i>	GCA_009730475.1 WP-155868633.1	2.78	+
<i>E. coli</i>	U00096.3 NP_417540.1	5.13	+	<i>N. brasiliensis</i>	CP003876.1 WP_042260379.1	8.93	+
<i>M. colombiense</i>	CP020821.1 RAV10536.1	5.62	+	<i>R. ruber</i>	CP023714.1 WP_102030849.1	5.57	+