



Requestable strains for [Chassis-independent Recombinase-Assisted Genome Engineering](#)  
(CRAGE):  
(last updated 1/30/26)

Alphaproteobacteria

*Brevundimonas diminuta* ATCC 19146

*Methylobacterium phyllosphaerae* DSM 19779

*Sphingomonas phyllosphaerae* DSM 17258

Betaproteobacteria

*Variovorax paradoxus* ATCC 17713

Gammaproteobacteria

*Aeromonas piscicola* LMG 24783

*Dickeya solani* DSM 28711

*Pantoea agglomerans* ATCC 13460

*Photobacterium halotolerans* DSM 18316

*Photorhabdus luminescens laumondii* TTO1

*Pseudomonas putida* KT2440

*Shewanella oneidensis* MR-1

*Yersinia aldovae* DSM 18303

Bacilli

*Bacillus subtilis* 168

*Paenibacillus polymyxa* ATCC 842