

# Transposon-insertion Sequencing as a Tool to Elucidate Bacterial Colonization Factors in a *Burkholderia gladioli* Symbiont of *Lagria villosa* Beetles

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jove.com/video/62843

## Materials

Name	Company	Catalog Number	Comments
2,6- Diaminopimelic Acid	Alfa Aesar	B22391	For <i>E. coli</i> WM3064+ pRL27
Agar - Agar	Roth	5210	
Agarose	Biozym	840004	
AMPure beads XP (magnetic beads + polyethylene glycol + salts)	Beckman Coulter	A63880	Size selection in step 6.6
Bleach (NaOCl) 12%	Roth	9062	
Bowtie2 v.2.4.2			Bioinformatic tool for read mapping. Reference 10 in main manuscript.
Buffer-S	Peqlab	PEQL01-1020	For PCRs
Cell scraper	Sarstedt	83.1830	
Cutadapt v.2.10			Bioinformatic tool for removing specific adapter sequences from the reads. Reference 8 in main manuscript.
DESeq2			RStudio package for assessing differential mutant abundance. Usually used for RNAseq analysis. Reference 12 in main manuscript.
DNA ladder 100 bp	Roth	T834.1	
dNTPs	Life Technology	R0182	PCR for confirming success of conjugation
EDTA, Di-Sodium salt	Roth	8043	
Epicentre MasterPure Complete DNA and RNA Purification Kit	Lucigen	MC85200	
Ethidium bromide	Roth	2218.1	
FastQC v.0.11.8			Bioinformatic tool for assessing the quality of sequencing data. Reference 7 in main manuscript.

FeatureCounts v.2.0.1			Bioinformatic tool to obtain read counts per genomic feature. Reference 11 in main manuscript.
Glycerol	Roth	7530	
K <sub>2</sub> HPO <sub>4</sub>	Roth	P749	
Kanamycin sulfate	Serva	26899	
KCl	Merck	4936	
KH <sub>2</sub> PO <sub>4</sub>	Roth	3904	
MgSO <sub>4</sub> ·7H <sub>2</sub> O	Roth	PO27	
Na <sub>2</sub> HPO <sub>4</sub>	Roth	P030	
NaCl	Merck	6404	
NEBNext Multiplex Oligos for Illumina (Index primers set 1)	New England Biolabs	E7335S	
NEBNext Ultra II DNA library prep kit for Illumina	New England Biolabs	E7645S	
Peptone (soybean)	Roth	2365	For <i>Burkholderia gladioli</i> Lv-StA KB-medium
peqGOLD 'Hot' Taq- DNA Polymerase	VWR	PEQL01-1020	PCR for confirming success of conjugation
Petri plates - 145 x 20 mm	Roth	XH90.1	For selecting transconjugants
Petri plates - 90 x 16 mm	Roth	N221.2	
Qiaxcel (StarSEQ GmbH, Germany)			Quality check after DNA library preparation
Streptavidin beads	Roth	HP57.1	
Taq DNA polymerase	VWR	01-1020	
Trimmomatic v.0.36			Bioinformatic tool for trimming low quality reads and also adapter sequences. Reference 9 in main manuscript.
Tris -HCl	Roth	9090.1	
Tryptone	Roth	2366	For <i>Escherichia coli</i> WM3064+pRL27 LB medium
Ultrasonicator	Bandelin	GM 70 HD	For shearing
USER enzyme (uracil DNA glycosylase + DNA glycosylase-lyase Endonuclease VIII)	New England Biolabs	E7645S	Ligation step 6.5.2
Yeast extract	Roth	2363	