COMPLETE GENETIC ENGINEERING SEQUENCE LABORATORY REAGENTS

1.1 Micropipette Use	**RD**	Red dye solution
1.2 Gel Electrophoresis	**RD**	Red dye solution
	S1	Dye solution 1
	S2	Dye solution 2
	S3	Dye solution 3
	1x SB	1x sodium borate buffer
2 Plasmid Restriction	**2.5xB**	2.5x restriction buffer
	K	pKAN-R plasmid
	A	pARA plasmid
	RE	Restriction enzymes BamHI and HindIII
	dH_2O	Distilled water
3 Ligation	**K+**	Digested pKAN-R from *Laboratory 2*
	A+	Digested pARA from *Laboratory 2*
	5xB	5x ligation buffer
	LIG	DNA ligase
	dH_2O	Distilled water
4 Verification	**K–**	Nondigested pKAN-R from *Laboratory 2*
	A–	Nondigested ARA from *Laboratory 2*
	K+	Digested pKAN-R from *Laboratory 2*
	A+	Digested pARA from *Laboratory 2*
	LIG	Ligated plasmid from *Laboratory 3*
	LD	Loading dye
	dH_2O	Distilled water
	M	DNA ladder (marker)
	1x SB	1x sodium borate buffer
5 Transformation	**LIG**	Ligated plasmid from *Laboratory 3*
	LB	Luria Broth
	CC	Chilled competent *E. Coli* cells
	amp	Ampicillin
	ara	Arabinose
6A Cell Lysis	**EC**	LB/amp/ara culture of *E. coli* cells
	EB	Elution buffer
	LyB	Lysis buffer
6B Protein Separation	**EC**	Lysed cells from *Laboratory 6A*
	BB	Binding buffer
	WB	Wash buffer
	EB	Elution buffer
	CEB	Column equilibration buffer