

Materials List for:

DNA-affinity-purified Chip (DAP-chip) Method to Determine Gene Targets for Bacterial Two component Regulatory Systems

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Materials

Name	Company	Catalog Number	Comments
HisTrapFF column (Ni-Sepharose column)	GE Life Sciences, Pittsburgh, PA, USA	17-5255-01	
Akta explorer (FPLC instrument)	GE Life Sciences, Pittsburgh, PA, USA		
HiPrep 26/10 Desalting column	GE Life Sciences, Pittsburgh, PA, USA	17-5087-01	
Qiaquick Gel extraction kit	Qiagen Inc, Valencia, CA, USA	28704	
Biotin-labeled oligonucleotides	Integrated DNA Technologies	N/A	
6% polyacrylamide-0.5x TBE precast mini DNA retardation gel	Life Technologies, Grand Island, NY, USA	EC63652BOX	Alternately, you can pour your own gel.
Nylon membrane	EMD Millipore, Billerica, MA, USA	INYC00010	
Trans-Blot SD Semi-dry electrophoretic transfer cell	Biorad, Hercules, CA, USA	170-3940	
Extra thick blot paper, 8 x 13.5 cm	Biorad, Hercules, CA, USA	170-3967	
UV crosslinker Model XL-1000	Fisher Scientific	11-992-89	
Nucleic Acid chemiluminescent detection kit (Pierce)	Thermo fisher Scientific, Rockford, IL, USA	89880	
Ni-NTA agarose resin	Qiagen Inc, Valencia, CA, USA	30210	
GenomePlex Whole genome amplification kit (Fragmentation buffer, library preparation buffer, library stabilization solution, library preparation enzyme, 10x amplification master mix, WGA polymerase)	Sigma-Aldrich, St. Louis, MO, USA	WGA2-50RXN	
Nanodrop ND-1000	Thermo Scientific, Wilmington, DE, USA	For quantitation of DNA	
Perfecta Sybr Green SuperMix, with ROX	Quanta biosciences	95055-500	Any Sybr Green PCR mix may be used
PlateMax Ultra clear heat sealing film for qPCR	Axygen		
Name	Company	Catalog Number	Comments
96-well clear low profile PCR microplate	Life Technologies, Grand Island, NY, USA	PCR-96-LP-AB-C	
Applied Biosystems StepOne Plus Real time PCR system	Life Technologies, Grand Island, NY, USA	4376600	Any real time PCR system may be used
Qiaquick PCR purification kit	Qiagen Inc, Valencia, CA, USA	28104	Any PCR clean up kit may be used
Cy3/Cy5-labeled nonamers	Trilink biotechnologies, San Diego, CA, USA	N46-0001, N46-0002	

Klenow polymerase 50,000 U/ml, 3'-5' exo ⁻	New England Biolabs, Ipswich, MA	M0212M	
Hybridization system	Roche-Nimblegen, Madison, WI, USA	N/A	This company no longer makes arrays or related items, so alternate sources such as Agilent or Affymetrix will need to be used.
Custom printed microarrays and mixers	Roche-Nimblegen, Madison, WI, USA	N/A	
Hybridization kit (2x Hybridization buffer, Hybridization component A, Alignment oligo)	Roche-Nimblegen, Madison, WI, USA	N/A	
Wash buffer kit (10x Wash buffer I, II, III, 1 M DTT)	Roche-Nimblegen, Madison, WI, USA	N/A	
GenePix 4200A microarray scanner	Molecular Devices, Sunnyvale CA, USA	This model has been replaced by superior ones	
GenePix Pro microarray software	Molecular Devices, Sunnyvale CA, USA		
Nimblescan v.2.4, ChIP-chip analysis software	Roche-Nimblegen, Madison, WI, USA	N/A	