

Materials List for:

Methods to Discover Alternative Promoter Usage and Transcriptional Regulation of Murine Bcrp1

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Materials

Name	Company	Catalog Number	Comments
COMMERCIAL BIOLOGIC MATERIALS AND KITS:			
First Choice RLM-RACE kit	Ambion Inc., Austin, TX, currently available through Life Technologies	AM1700	5'-RACE PCR kit
TOPO TA cloning kit	Life Technologies	K450001	This kit contains the TOP10 chemically competent <i>E. coli</i> bacteria.
T4 DNA ligase quick ligation kit	New England Biolabs	M2200	
Faststart high-fidelity Taq- DNA polymerase	Sigma-Aldrich/Roche	3553400001/RMB-4738284001	Contains a high-fidelity Taq polymerase enzyme blend
XtremeGENE HP DNA transfection reagent	Roche	6366236001	
Dual-luciferase reporter assay kit	Promega	E1910	Includes the pGL3-basic empty reporter vector (firefly luciferase), pRLTK renilla luciferase expressing vector, and other control vectors.
QIAprep	Qiagen	27104	For plasmid miniprep - isolation and purification of plasmid DNA from bacterial colonies
pCR2.1 vector	part of the TOPO TA cloning kit		
pGL3-basic luciferase containing vector	Promega	E1751	
pRL-TK Renilla luciferase expressing vector	Promega	E2241	
Bacterial artificial chromosome	BACPAC Resources Center, Children's Hospital Oakland Research Institute, Oakland, CA	RP23-285A12 and RP24-314E24	http://bacpac.chori.org/clones.htm
REAGENTS/CHEMICALS/MEDIA/SUPPLIES			
TRIzol	Life Technologies	15596026	
Wizard® SV Gel and PCR Clean-Up System	Promega	A9281	Useful for purifying PCR products following digestion with restriction endonucleases

CRYOVIALS	Denville Scientific	V9012	
SOFTWARE:			
Ensembl software	Ensembl project	http://Ensembl.org	The Ensembl project produces genome databases for vertebrates and other eukaryotic species, and makes this information freely available online.
Blast software	NCBI	http://blast.ncbi.nlm.nih.gov/Blast.cgi?CMD=Web&PAGE_TYPE=BlastHome	
Primer 3 software	Simgene	http://simgene.com/Primer3	Useful for designing primers for 5'-RACE PCR
NCBI Nucleotide database	NCBI	http://www.ncbi.nlm.nih.gov/nucleotide/	
CELL LINES:			
TM4 murine Sertoli cells	ATCC, Manassas, Virginia	CRL-1715™	
INSTRUMENTS:			
Luminometer	Turner Biosystems	TD-20/20	This is a relatively inexpensive, manually operated luminometer. Automated systems are also available from the same manufacturer that utilize 96 well plates.
NanoDrop spectrophotometers	Thermo Scientific, Inc.	NanoDrop 2000	Spectrophotometer can use very small quantities of sample
DU 800 UV/VIS spectrophotometer and Nucleic Acid Analysis II software	BeckmanCoulter Inc, Fullerton, CA	DU 800	