



GENOME EXPLORATIONS

discovery through innovation

Affymetrix Gene Expression/Genotyping Analysis Request Form

Date:	Billing Information *:
Contact Name*:	P.O. # or (Credit Card #) :*:
Principle Investigator*:	Grant Number or (CC Exp. Date) *:
Email*:	Bill to Contact or (Name on CC) *:
Phone*:	Billing Phone*:
Institute Name*:	Billing Fax*:
Street*:	Billing Address*:
Street*:	
City/State/Zip	Study may require FDA/EPA submission*: Yes / No (please circle)

* All fields required, samples will not be processed without complete Billing Information and a valid P.O./Credit card number; Please see page 2 for detailed information on Sample Naming and other sample requirements.

RNA Expression Analysis Genotyping Analysis (Please circle one)

Genome Explorations Use

SAMPLE NAME (see reverse)	Sample Type i.e. RNA or DNA	Species i.e., mouse human yeast	Conc.** (ug/ul)	OD 260:280 ratio**	Small Sample Amplification (Total 5ng1ug or Globin Reduction?)	Reference Sample Name for Comparisons	GeneChip required (Affy.Code) i.e., 430_2;U133_2	RNA or DNA Ext	QC	RNA Amp/ Globin Reduct	Reag/ Hyb/ Scan/ E/A	GeneChip
1.												
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

** Optional

Date Completed _____

Comments: _____

Please Mail completed order form and samples to:

Genome Explorations, Inc.
654 Jefferson Avenue
Memphis, TN 38105

Tel: 901-578 5708
Toll Free: 800-344 5708
Fax: 901-578 5709
Email: tech@genome-explorations.com

Sample Preparation and Ordering Information:

Please be aware that prior to sending samples for microarray/genotyping analyses we strongly recommend communication between the Principle Investigator and Genome Explorations, Inc., to review the available technologies and to determine the most suitable array type to use.

All information on page 1 **MUST BE PROVIDED** before your samples can be processed:

i.e. Date; Ordered by (the name of the person placing the order); Department; Phone number; Grant number and **VALID Bill to information and P.O. number** etc.

INSTRUCTIONS:

1. **Sample requirements: [Total RNA is preferred over Poly(A)⁺ mRNA for Gene Expression analysis]**

Sample	Amount	OD260:280	[RNA/DNA]
Total RNA	10 µg - 20 ug*	1.8-2.0	>2.0 ug/µL
Poly(A) ⁺ RNA (not preferred)	0.2 µg - 5.0 ug	1.8-2.0	>0.2 ug/µL
Genomic DNA	> 500 ng per array**	1.6-2.0	>50 ng/uL

*Total RNA samples containing 5 - 50 ng can be processed using a double-round amplification procedure at additional cost.

**10K SNP mapping uses 1 array per sample; 100K SNP mapping uses 2 arrays per sample.

- SAMPLE NAME:** Label your sample on the TOP of the tube using a permanent marker with a 6 character label starting with three letters (e.g., your initials) followed by three numbers, for example **DHP001**.
- Total RNA/Poly(A)⁺:** Please indicate if your sample is Total RNA or poly(A)⁺ purified (mRNA) and the purification method used in **Comments**. Please note that total RNA is preferred over Poly(A)⁺ RNA with Affymetrix arrays.
- Method of Purification:** Affymetrix GeneChip arrays require extremely high quality RNA preparations in order to yield definitive and reproducible results, and the purification method can greatly affect array results. We **highly recommend** preparing **total RNA** using RNASat 60B (Tel-Test), TRIzol or TriReagent; total RNA prepared by using Qiagen RNA Easy products are acceptable. A 260:280 ratio of 1.8 to 2.0 indicates a high purity RNA preparation and is required for Microarray applications. **Genomic DNA** must be prepared by using standard non-denaturing methods, such as those consisting of SDS/Proteinase K digestion, phenol-chloroform extraction, microcon or centricon ultrapurification and concentration, or by using Qiagen QIAamp products.
- Please indicate** which sample is **REFERENCE/CONTROL** for each requested comparison in the column provided. Comparison analysis of data, i.e. lists of genes that are differentially expressed in the **TEST** sample as compared to the **REFERENCE** sample will be provided as well as all raw unprocessed data. **Please NOTE:** Additional analyses such as data mining, gene clustering etc. that requires significant intellectual input by the Genome Explorations staff will be charged for separately.
- Please indicate** the Affymetrix GeneChip[®] for each sample (Please refer to the www.Affymetrix.com or www.genome-explorations.com for available GeneChip arrays or contact a member of our staff at 901-578 5708 (800-344 5708) for additional information).

PLEASE NOTE: For studies not intended to support submissions to the FDA or EPA, Genome Explorations will maintain SAMPLES (RNA, DNA, tissue) and DATA for a maximum of 30 days from completion of sample processing unless extended storage is requested; otherwise, sample and data storage will comply with Title 21 CFR, part 58. Samples can be shipped back to investigators at their expense.