

shRNAfoldChange, v6

Calculate the fold change of each sample in a gct file, based on the appropriate DNA reference value (present in a gct file of the same dimension).

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Algorithm Version:

Introduction

shRNAfoldChange is a GenePattern module that calculates the fold change values of all shRNAs for each sample in a GCT file. The fold change is calculated by subtracting the starting DNA reference matrix in the user-uploaded DNA reference file from the shRNA value matrix in the user-uploaded DNA reference file from the shRNA value matrix in the user-uploaded gct file (both matrices should have the same dimensions). The module outputs a GCT file containing the fold change of each sample, for each shRNA in the dataset.

Parameters

Name	Description
gct file *	The input gct data file.
DNA reference file *	The values of the DNA pool reference per sample/shRNA in a gct file (same dimension as input gct file).
prefix *	The file name prefix.

^{* -} required

Input Files

- 1. gct file
 - Data file containing shRNA data, with cell lines as columns and shRNAs as rows.
- 2. DNA reference file

 A GCT file containing the values of the DNA pool reference per sample/shRNA (same dimensions as input GCT file).

Output Files

- 1. Data file with fold change values [prefix]_FC.rnai.gct
 - A GCT file containing the fold change values of each sample in the user-inputted dataset.

Platform Dependencies

Task Type:

RNAi

CPU Type:

any

Operating System:

any

Language:

R

Version Comments

Version	Release Date	Description
6	2014-09-16	updated command line
5	2013-03-20	

