

How to Obtain Clones from the NSF and EST projects

ResGen, Invitrogen Corp.
2130 South Memorial Parkway
Huntsville, AL 35801
800-533-4363

Customers may obtain clones via email --
ccu@resgen.com
or via phone -- 800-533-4363

NSF Data and Materials Available from NSF Project to Date

- Unigene sets (reracked) of over 18,000 clones from libraries representing the following tissues and available from ResGen, Email: ccu@resgen.com
 - Gm-r1021 rerack of an 8 day root library
 - Gm-r1070 rerack of libraries representing immature cotyledons, flowers, pods
 - Others in progress to over 30,000
- Sequences entered in dbEST for 3' sequence data of the unigene collection. Over 18,000 of the unigenes at the 3' end have been sequenced
- BAC-end sequence data for SSR and RFLP markers representing up to 20% of the soybean genome
- A Web site with information on data from EST and NSF projects
<http://web.ahc.umn.edu/biodata/gmax/>
See also EST project site at <http://129.186.26.94/soybeanest.html> for information on the “Public EST project” and cDNA libraries and clones
- Workshop with microarray protocols, May 2000, and Web site at University of Illinois <http://soybeangenomics.cropsci.uiuc.edu>

Construction of NSF Soybean Unigene Set

Total of 21,479 clones to date

Tissues Represented	No. of total 5' ESTs >200 bp in each library	No. of ESTs in "unigene" set	Rerack Name
Root 8-day	6,392	4,089	Gm-r1021
Cotyledons (two stages)	7,627	2,639	Gm-r1070
Seed coats	4,850	2,163	"
Flowers (two stages)	7,853	3,938	"
Pods (young, 1-2 cm)	1,637	869	"
Root (2 month)	2,398	1,117	Gm-r1083
Innoculated root	6,748	3,055	"
Whole plant	2,593	915	in progress
Degenerating cotyledon	6,435	2,694	in progress
Total	46,533	21,479	
Entire 5' EST collection	152,000	ca 45,000	cluster total as of 11/01

Training Activities Sponsored by the NSF Project

Microarray Workshop for the Soybean Community

May 16-18, 2000

University of Illinois, Urbana, Illinois

Attended by 29 researchers, postdoctoral students, and graduate students from 15 different universities and locations including Illinois, Iowa, Indiana, Minnesota, Missouri, Ohio, Maryland, South Carolina, Alabama, Virginia

Provided hands-on experience and overview of the technology and a workbook of methods

