

REVOCABLE PROXY

UNIGENE LABORATORIES, INC.

ANNUAL MEETING OF STOCKHOLDERS

June 25, 2009

11:00 A.M.

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The undersigned stockholder of Unigene Laboratories, Inc. hereby appoints Warren P. Levy, Ronald S. Levy and Jay Levy, and each of them, as the undersigned's proxies (with the power of substitution), to vote all the shares of Common Stock of Unigene Laboratories, Inc. which the undersigned would be entitled to vote at the Annual Meeting of Stockholders of Unigene Laboratories, Inc. to be held on June 25, 2009 at 11:00 A.M., Eastern Daylight time, and any adjournments thereof, on the following matters.

PLEASE COMPLETE, DATE, SIGN, AND MAIL THIS PROXY CARD PROMPTLY IN THE ENCLOSED POSTAGE-PAID ENVELOPE OR PROVIDE YOUR INSTRUCTIONS TO VOTE VIA THE INTERNET OR BY TELEPHONE.

(Continued, and to be marked, dated and signed, on the other side)



FOLD AND DETACH HERE



UNIGENE LABORATORIES, INC. — ANNUAL MEETING, JUNE 25, 2009

YOUR VOTE IS IMPORTANT!

Annual Meeting Materials are available on-line at:

http://unigene.com/investor_relations/financial_reports

You can vote in one of three ways:

1. Call toll free 1-866-239-6507 on a Touch-Tone Phone. There is **NO CHARGE** to you for this call.

or

2. Via the Internet at <https://www.proxyvotenow.com/ugne> and follow the instructions.

or

3. Mark, sign and date your proxy card and return it promptly in the enclosed envelope.

PLEASE SEE REVERSE SIDE FOR VOTING INSTRUCTIONS



PLEASE MARK VOTES AS IN THIS EXAMPLE

REVOCABLE PROXY UNIGENE LABORATORIES, INC.

Annual Meeting of Stockholders
JUNE 25, 2009

1. Election of directors

For	Withhold All	For All Except
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(01) J. Thomas August, (02) Allen Bloom, (03) Zvi Eiref, (04) Jay Levy, (05) Ronald S. Levy, (06) Warren P. Levy, (07) Marvin L. Miller, (08) Bruce Morra and (09) Peter Slusser

INSTRUCTION: To withhold authority to vote for any nominee(s), mark "For All Except" and write that nominee(s)' name(s) or number(s) in the space provided below.

2. Ratification of the appointment of Grant Thornton LLP as independent auditors of the Company.

For	Against	Abstain
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. To approve an amendment to the Company's 2006 Stock-Based Incentive Compensation Plan.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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4. In their discretion in the transaction of any other business that may properly come before such meeting.

The undersigned hereby revokes any proxy heretofore given.

This proxy will be voted in accordance with instructions specified above, but in the absence of any instructions will be voted "FOR" Items 1, 2 and 3. If any other business is presented at the meeting, the proxies are authorized to vote thereon in their discretion. The Board of Directors recommends a vote FOR items 1, 2 and 3 noted above.

Mark here if you plan to attend the meeting

Mark here for address change and note change

Please sign exactly as your name appears on this card. If stock is registered in the names of two or more joint owners or trustees, each joint owner or trustee should sign this proxy. When signing as an executor, administrator, trustee, guardian, agent or attorney, please give your full title as such.

Please be sure to date and sign this proxy card in the box below.

Date

Sign above

IF YOU WISH TO PROVIDE YOUR INSTRUCTIONS TO VOTE BY TELEPHONE OR INTERNET, PLEASE READ THE INSTRUCTIONS BELOW

FOLD AND DETACH HERE IF YOU ARE VOTING BY MAIL

PROXY VOTING INSTRUCTIONS

Stockholders of record have three ways to vote:

1. By Mail; or
2. By Telephone (using a Touch-Tone Phone); or
3. By Internet.

A telephone or Internet vote authorizes the named proxies to vote your shares in the same manner as if you marked, signed, dated and returned this proxy. Please note telephone and Internet votes must be cast prior to 3 a.m., June 25, 2009. It is not necessary to return this proxy if you vote by telephone or Internet.

Vote by Telephone

Call Toll-Free on a Touch-Tone Phone anytime prior to 3 a.m., June 25, 2009:

1-866-239-6507

Vote by Internet

anytime prior to 3 a.m., June 25, 2009 go to

<https://www.proxyvotenow.com/ugne>

Please note that the last vote received, whether by telephone, Internet or by mail, will be the vote counted.

ON-LINE ANNUAL MEETING MATERIALS: http://unigene.com/investor_relations/financial_reports

Your vote is important!