

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
MAY 17, 2010**

**ORDER GRANTING CONFIDENTIAL TREATMENT  
UNDER THE SECURITIES ACT OF 1933**

**Senomyx, Inc.**

**File No. 333-113998 - CF#25060**

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Senomyx, Inc. submitted an application under Rule 406 requesting an extension of a previous grant of confidential treatment for information it excluded from the Exhibits to a Form S-1 filed on March 29, 2004, as amended.

Based on representations by Senomyx, Inc. that this information qualifies as confidential commercial or financial information under the Freedom of Information Act, 5 U.S.C. 552(b)(4), the Division of Corporation Finance has determined not to publicly disclose it. Accordingly, excluded information from the following exhibits will not be released to the public for the time period specified:

Exhibit 10.11	through February 23, 2015
Exhibit 10.12	through April 14, 2013
Exhibit 10.14	through April 14, 2013
Exhibit 10.15	through April 14, 2013
Exhibit 10.16	through April 14, 2013

For the Commission, by the Division of Corporation Finance, pursuant to delegated authority:

Todd Schiffman  
Assistant Director