

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
May 19, 2008**

**ORDER GRANTING CONFIDENTIAL TREATMENT  
UNDER THE SECURITIES EXCHANGE ACT OF 1934**

**Senomyx, Inc.**

**File No. 0-50791 - CF#22018**

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Senomyx, Inc. submitted an application under Rule 24b-2 requesting an extension of a previous grant of confidential treatment for information it excluded from Exhibit 10.1 to a Form 10-Q filed on May 11, 2005.

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 exhibit will not be released to the public for the time period specified:

Exhibit 10.1                      through May 11, 2011

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

Michael Reedich  
Special Counsel