

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
July 28, 2014**

**ORDER GRANTING CONFIDENTIAL TREATMENT
UNDER THE SECURITIES ACT OF 1933 AND
THE SECURITIES EXCHANGE ACT OF 1934**

Senomyx, Inc.

File Nos. 000-50791 and 333-113998 - CF#31328

Senomyx, Inc. submitted an application under Rule 406 and Rule 24b-2 requesting an extension of prior grants of confidential treatment for information it excluded from the Exhibits to a Form S-1 filed on March 29, 2004, as amended, and a Form 10-Q filed on November 4, 2010.

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(s) will not be released to the public for the time period(s) specified:

| Exhibit | to Form | Filed on | Confidential Treatment Granted |
|----------------|----------------|------------------|---------------------------------------|
| 10.15 | S-1 | March 29, 2004 | through August 7, 2017 |
| 10.1 | 10-Q | November 4, 2010 | through August 7, 2017 |

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

Kevin M. O'Neill
Deputy Secretary