October 26, 2023



Mustang Bio Announces \$4.4 Million Registered Direct Offering Priced At-the-Market Under Nasdaq Rules

WORCESTER, Mass., Oct. 26, 2023 (GLOBE NEWSWIRE) -- Mustang Bio, Inc. ("Mustang" or the "Company") (Nasdaq: MBIO), a clinical-stage biopharmaceutical company focused on translating today's medical breakthroughs in cell and gene therapies into potential cures for difficult-to-treat cancers and rare genetic diseases, today announced that it has entered into a definitive agreement for the issuance and sale of an aggregate of 2,588,236 of its shares of common stock (or common stock equivalents in lieu thereof) at a purchase price of \$1.70 per share (or common stock equivalent in lieu thereof) in a registered direct offering priced at-the-market under Nasdaq rules. In a concurrent private placement, Mustang has also agreed to issue and sell unregistered warrants to purchase up to an aggregate of 2,588,236 shares of its common stock. The offering is expected to close on or about October 30, 2023, subject to the satisfaction of customary closing conditions.

H.C. Wainwright & Co. is acting as the exclusive placement agent for the offering.

The unregistered warrants will have an exercise price \$1.58 per share, will become exercisable immediately upon issuance and will expire five and one-half years from the date of issuance.

The gross proceeds to Mustang from the offering are expected to be approximately \$4.4 million, before deducting the placement agent's fees and other offering expenses payable by the Company. Mustang currently intends to use the net proceeds from the offering for working capital and general corporate purposes.

The shares of common stock (or common stock equivalents) offered in the registered direct offering (but excluding the unregistered warrants offered in the concurrent private placement and the shares of common stock underlying such unregistered warrants) are being offered and sold by the Company pursuant to a "shelf" registration statement on Form S-3 (Registration No. 333-255476), including a base prospectus, previously filed with the Securities and Exchange Commission (SEC) on April 23, 2021 and declared effective by the SEC on May 24, 2021. The offering of the shares of common stock (or common stock equivalents) to be issued in the registered direct offering are being made only by means of a prospectus supplement that forms a part of the registration statement. A final prospectus supplement and an accompanying base prospectus relating to the registered direct offering will be filed with the SEC and will be available on the SEC's website located

at http://www.sec.gov. Electronic copies of the final prospectus supplement and accompanying base prospectus may also be obtained, when available, by contacting H.C. Wainwright & Co., LLC at 430 Park Avenue, 3rd Floor, New York, NY 10022, by phone at (212) 856-5711 or e-mail at placements@hcwco.com.

The offer and sale of the unregistered warrants in the private placement are being made in a transaction not involving a public offering and have not been registered under Section 4(a) (2) of the Securities Act of 1933, as amended (the "Securities Act") and/or Rule 506(b) of Regulation D promulgated thereunder and, along with the shares of common stock underlying such unregistered warrants, have not been registered under the Securities Act or applicable state securities laws. Accordingly, the unregistered warrants offered in the private placement and the underlying shares of common stock may not be reoffered or resold in the United States except pursuant to an effective registration statement or an applicable state securities laws.

This press release shall not constitute an offer to sell or a solicitation of an offer to buy these securities, nor shall there be any sale of these securities in any state or jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such state or jurisdiction.

About Mustang Bio

Mustang Bio, Inc. is a clinical-stage biopharmaceutical company focused on translating today's medical breakthroughs in cell and gene therapies into potential cures for difficult-totreat cancers and rare genetic diseases. Mustang aims to acquire rights to these technologies by licensing or otherwise acquiring an ownership interest, to fund research and development, and to outlicense or bring the technologies to market. Mustang has partnered with top medical institutions to advance the development of CAR-T therapies across multiple cancers, as well as lentiviral gene therapies for severe combined immunodeficiency. Mustang's common stock is registered under the Securities Exchange Act of 1934, as amended, and Mustang files periodic reports with the U.S. Securities and Exchange Commission ("SEC"). Mustang was founded by Fortress Biotech, Inc. (Nasdaq: FBIO). For more information, visit www.mustangbio.com.

Forward-Looking Statements

This press release contains "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, each as amended. Such statements, which are often indicated by terms such as "anticipate," "believe," "could," "estimate," "expect," "goal," "intend," "look forward to," "may," "plan," "potential," "predict," "project," "should," "will," "would" and similar expressions. The Company's forward-looking statements, include, but are not limited to, statements regarding the completion of the offering, the satisfaction of customary closing conditions related to the offering and the anticipated use of proceeds therefrom, as well as any statements relating to our growth strategy and product development programs, including the timing of and our ability to make regulatory filings such as INDs and other applications and to obtain regulatory approvals for our product candidates, statements that are not historical facts. Actual events or results may differ materially from those described in this press release due

to a number of risks and uncertainties. Risks and uncertainties include, among other things, risks related to market and other conditions, whether the Company's third-party manufacturer is able to successfully perform its obligation to produce the Company's products under the manufacturing services agreement on a timely basis and to acceptable standards; disruption from the sale of the Company's manufacturing facility making it more difficult to maintain business and operational relationships; negative effects of the announcement of the consummation of the sale of the Company's manufacturing facility on the market price of the Company's common stock; significant transaction costs; the development stage of the Company's primary product candidates, our ability to obtain, perform under, and maintain financing and strategic agreements and relationships; risks relating to the results of research and development activities; risks relating to the timing of starting and completing clinical trials; uncertainties relating to preclinical and clinical testing; our dependence on third-party suppliers; our ability to attract, integrate and retain key personnel; the early stage of products under development; our need for substantial additional funds; government regulation; patent and intellectual property matters; competition; as well as other risks described in Part I, Item 1A, "Risk Factors," in our Annual Report on Form 10-K filed on March 30, 2023, subsequent Reports on Form 10-Q, and our other filings we make with the SEC. We expressly disclaim any obligation or undertaking to release publicly any updates or revisions to any forward-looking statements contained herein to reflect any change in our expectations or any changes in events, conditions or circumstances on which any such statement is based, except as required by law, and we claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995.

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