

#### Biotechnology

### Ultragenyx

**Equity Research** 

June 24, 2014

Price: \$44.77 (06/23/2014)

**Price Target: NA** 

#### **OUTPERFORM (1)**

Eric Schmidt, Ph.D.

646.562.1345 eric.schmidt@cowen.com

Marc Frahm, Ph.D.

646.562.1394 marc.frahm@cowen.com

#### **Key Data**

Symbol NASDAQ: RARE
Market Cap (MM) \$1,345.8

Company Quick Take

### More Favorable Data On KRN23

#### The Cowen Insight

Ultragenyx presented Phase I/II data from KRN23's trial in adult hypophosphatemia patients at the 2014 ENDO meeting. Data were consistent with that disclosed in abstract form, and indicated that KRN23 reduced serum phosphate without meaningful change in calcium or PTH. We view KRN23 as a low risk candidate with significant >\$1B commercial potential. RARE remains a top pick.

#### **SA-ER Produces Encouraging Data**

The News: Earlier today, Ultragenyx presented full data from a Phase I/II multidose trial on KRN23 at the ENDO meeting in Chicago. KRN23, an mAb directed at FGF23 is being developed for patients with X-linked hypophosphatemia (XLH) under a collaboration with Kirin. Recall that a prior single-dose trial showed the drug capable of maintaining serum phosphate and vitamin D, without significant changes in other blood parameters like calcium and PTH. In this multi-dose trial, 28 adult patients were treated with escalating doses of KRN23 (0.05, 0.1, 0.3, and 0.6 mg/kg) every 28 days for 4 months. Both serum phosphate and reabsorption of phosphate from the urine (TmP/GFR) increased from the baseline at all time points (p < 0.05), after the first dose trough. Mean serum phosphorus peaked after the fourth dose to 3.03 +/- 0.42mg/dL representing approximately 60% increase from the mean baseline levels of 1.89 +/- 0.33mg/dL. Serum 1,25(OH)<sub>2</sub>Vitamin D also increased from baseline except for the first and second-dose troughs (p < 0.05). Quality of life measures also presented improvements. Importantly, no patients experienced serum phosphate above 4.5 mg/dL. Parathyroid hormone, serum calcium and urinary calcium excretion did not exhibit any significant changes. The most common adverse events were nasopharyngitis and arthralgia. There were no serious adverse events and development of anti-KRN23 antibodies was not observed. However, one patient did discontinue KRN23 due to injection site pain.

**Our Take:** These data support the hypothesis that by inhibiting FGF23, the key regulator of potassium excretion, serum phosphate levels in XLH patients can be normalized. The data further de-risk theoretical concerns for KRN23: the development of anti-KRN23 antibodies and the potential for hypercalcemia. We view KRN23 as a "magic bullet" type of approach for XLH and believe this low risk candidate could achieve WW sales of ~\$1B. Ultragenyx is entitle to receive approximately 30% of KRN23's value on a worldwide basis.

**What Is Next For Ultragenyx?** Initiation of pediatric trials on KRN23 (H2:14); Phase I/II data on rhGUS for MPS7 (H2:14); FDA discussions on the design of a pivotal trial for rhGUS (H2:14); Phase II extension data on SA-ER for HIBM (H2:14).

### Cowen and Company

**Equity Research** 

### Ultragenyx

June 24, 2014

**Our Thesis On RARE:** Ultragenyx is financed through potential value creating milestones in all of 5 of its Phase 2 orphan disease programs. We expect the stock to outperform as milestones on many of these programs are achieved.

2

# Valuation Methodology And Risks

### **Valuation Methodology**

#### **Biotechnology:**

In calculating our 12-month target price, we employ one or more valuation methodologies, which include a discounted earnings analysis, discounted cash flow analysis, net present value analysis and/or a comparable company analysis. These analyses may or may not require the use of objective measures such as price-to-earnings or price-to-sales multiples as well as subjective measures such as discount rates.

We make investment recommendations on early stage (pre-commercial) biotechnology companies based upon an assessment of their technology, the probability of pipeline success, and the potential market opportunity in the event of success. However, because these companies lack traditional financial metrics, we do not believe there are any good methodologies for assigning a specific target price to such stocks.

#### **Investment Risks**

#### **Biotechnology:**

There are multiple risks that are inherent with an investment in the biotechnology sector. Beyond systemic risk, there is also clinical, regulatory, and commercial risk. Additionally, biotechnology companies require significant amounts of capital in order to develop their clinical programs. The capital-raising environment is always changing and there is risk that necessary capital to complete development may not be readily available.

#### **Risks To The Price Target**

Investing in development stage biotechnology companies is risky, and many things could prevent Ultragenyx from achieving the success we model.

www.cowen.com 3



#### **Stocks Mentioned In Important Disclosures**

Ticker	Company Name
RARE	Ultragenyx

#### **Analyst Certification**

Each author of this research report hereby certifies that (i) the views expressed in the research report accurately reflect his or her personal views about any and all of the subject securities or issuers, and (ii) no part of his or her compensation was, is, or will be related, directly or indirectly, to the specific recommendations or views expressed in this report.

#### **Important Disclosures**

Cowen and Company, LLC and or its affiliates make a market in the stock of Ultragenyx securities.

Ultragenyx has been client(s) of Cowen and Company, LLC in the past 12 months.

Ultragenyx is or was in the past 12 months a client of Cowen and Company, LLC; during the past 12 months, Cowen and Company, LLC provided IB services.

Cowen and Company, LLC and/or its affiliates received in the past 12 months compensation for investment banking services from Ultragenyx

Cowen and Company, LLC and/or its affiliates managed or co-managed a public offering of Ultragenyx within the past twelve months.

Cowen and Company, LLC compensates research analysts for activities and services intended to benefit the firm's investor clients. Individual compensation determinations for research analysts, including the author(s) of this report, are based on a variety of factors, including the overall profitability of the firm and the total revenue derived from all sources, including revenues from investment banking. Cowen and Company, LLC does not compensate research analysts based on specific investment banking transactions.

#### Disclaimer

This research is for our clients only. Our research is disseminated primarily electronically and, in some cases, in printed form. Research distributed electronically is available simultaneously to all Cowen and Company, LLC clients. All published research can be obtained on the Firm's client website, https://cowenlibrary.bluematrix.com/client/library.jsp.

Further information on any of the above securities may be obtained from our offices. This report is published solely for information purposes, and is not to be construed as an offer to sell or the solicitation of an offer to buy any security in any state where such an offer or solicitation would be illegal. Other than disclosures relating to Cowen and Company, LLC, the information herein is based on sources we believe to be reliable but is not guaranteed by us and does not purport to be a complete statement or summary of the available data. Any opinions expressed herein are statements of our judgment on this date and are subject to change without notice.

For important disclosures regarding the companies that are the subject of this research report, please contact Compliance Department, Cowen and Company, LLC, 599 Lexington Avenue, 20th Floor, New York, NY 10022. In addition, the same important disclosures, with the exception of the valuation methods and risks, are available on the Firm's disclosure website at https://cowen.bluematrix.com/sellside/Disclosures.action.

Price Targets: Cowen and Company, LLC assigns price targets on all covered companies unless noted otherwise. The price target for an issuer's stock represents the value that the analyst reasonably expects the stock to reach over a performance period of twelve months. The price targets in this report should be considered in the context of all prior published Cowen and Company, LLC research reports (including the disclosures in any such report or on the Firm's disclosure website), which may or may not include price targets, as well as developments relating to the issuer, its industry and the financial markets. For price target valuation methodology and risks associated with the achievement of any given price target, please see the analyst's research report publishing such targets.

Notice to UK Investors: This publication is produced by Cowen and Company, LLC which is regulated in the United States by FINRA. It is to be communicated only to persons of a kind described in Articles 19 and 49 of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005. It must not be further transmitted to any other person without our consent.

#### Copyright, User Agreement and other general information related to this report

© 2014 Cowen and Company, LLC. Member NYSE, FINRA and SIPC. All rights reserved. This research report is prepared for the exclusive use of Cowen clients and may not be reproduced, displayed, modified, distributed, transmitted or disclosed, in whole or in part, or in any form or manner, to others outside your organization without the express prior written consent of Cowen. Cowen research reports are distributed simultaneously to all clients eligible to receive such research reports. Any unauthorized use or disclosure is prohibited. Receipt and/or review of this research constitutes your agreement not to reproduce, display, modify, distribute, transmit, or disclose to others outside your organization the contents, opinions, conclusion, or information contained in this report (including any investment recommendations, estimates or price targets). All Cowen trademarks displayed in this report are owned by Cowen and may not be used without its prior written consent.

Cowen and Company, LLC. New York (646) 562-1000 Boston (617) 946-3700 San Francisco (415) 646-7200 Chicago (312) 577-2240 Cleveland (440) 331-3531 Atlanta (866) 544-7009 London (affiliate) 44-207-071-7500

#### **COWEN AND COMPANY RATING DEFINITIONS**

Cowen and Company Rating System effective May 25, 2013

Outperform (1): The stock is expected to achieve a total positive return of at least 15% over the next 12 months

Market Perform (2): The stock is expected to have a total return that falls between the parameters of an Outperform and Underperform over the next 12 months

Underperform (3): Stock is expected to achieve a total negative return of at least 10% over the next 12 months

Assumption: The expected total return calculation includes anticipated dividend yield

Cowen and Company Rating System until May 25, 2013

Outperform (1): Stock expected to outperform the S&P 500

Neutral (2): Stock expected to perform in line with the S&P 500

**Underperform (3):** Stock expected to underperform the S&P 500

Assumptions: Time horizon is 12 months; S&P 500 is flat over forecast period

Cowen Securities, formerly known as Dahlman Rose & Company, Rating System until May 25, 2013

Buy – The fundamentals/valuations of the subject company are improving and the investment return is expected to be 5 to 15 percentage points higher than the general market return

#### Cowen and Company

**Equity Research** 

#### Ultragenyx

June 24, 2014

Sell – The fundamentals/valuations of the subject company are deteriorating and the investment return is expected to be 5 to 15 percentage points lower than the general market return

**Hold** – The fundamentals/valuations of the subject company are neither improving nor deteriorating and the investment return is expected to be in line with the general market return

#### **Cowen And Company Rating Definitions**

Distribution of Ratings/Investment Banking Services (IB) as of 03/31/14

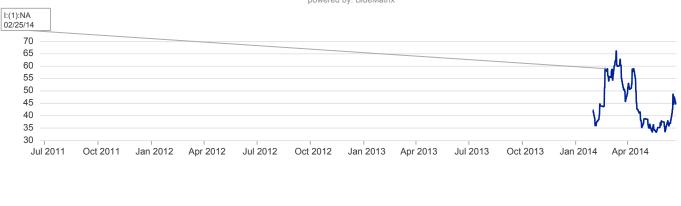
Rating	Count	Ratings Distribution	Count	IB Services/Past 12 Months
Buy (a)	407	57.08%	85	20.88%
Hold (b)	288	40.39%	8	2.78%
Sell (c)	18	2.52%	1	5.56%

(a) Corresponds to "Outperform" rated stocks as defined in Cowen and Company, LLC's rating definitions. (b) Corresponds to "Market Perform" as defined in Cowen and Company, LLC's ratings definitions. (c) Corresponds to "Underperform" as defined in Cowen and Company, LLC's ratings definitions.

Note: "Buy", "Hold" and "Sell" are not terms that Cowen and Company, LLC uses in its ratings system and should not be construed as investment options. Rather, these ratings terms are used illustratively to comply with FINRA and NYSE regulations.

#### Ultragenyx Rating History as of 06/23/2014

powered by: BlueMatrix



#### Legend for Price Chart:

I = Initiation | 1 = Outperform | 2 = Market Perform | 3 = Underperform | UR = Price Target Under Review | T = Terminated Coverage | \$xx = Price Target | NA = Not Available | S=Suspended

Target Price

Closing Price

www.cowen.com



## Points Of Contact

#### **Reaching Cowen**

#### **Main U.S. Locations**

#### **New York**

599 Lexington Avenue New York, NY 10022 646.562.1000 800.221.5616

#### Atlanta

3399 Peachtree Road NE Suite 417

Atlanta, GA 30326 866.544.7009

#### **Boston**

Two International Place Boston, MA 02110 617.946.3700 800.343.7068

#### Chicago

181 West Madison Street Suite 1925 Chicago, IL 60602 312.577.2240

#### Cleveland

20006 Detroit Road Suite 100 Rocky River, OH 44116 440.331.3531

#### Houston

600 Travis Street **Suite 1970** Houston, TX 77002 281.657.6800

#### San Francisco

555 California Street, 5th Floor San Francisco, CA 94104 415.646.7200 800.858.9316

#### **International Locations**

#### **Cowen International** Limited

#### London

1 Snowden Street - 11th Floor London EC2A 2DQ **United Kingdom** 44.20.7071.7500

#### Cowen and Company (Asia) Limited

# **Hong Kong**

Suite 1401 Henley Building No. 5 Queens Road Central Central, Hong Kong 852 3752 2333





