

ProQR Therapeutics N.V. (PRQR)

All Eyes on CF Data Late September

| MARKET DATA | |
|--|-----------------|
| Price | \$4.95 |
| 52-Week Range: | \$3.65 - \$8.70 |
| Shares Out. (M): | 25.1 |
| Market Cap (\$M): | \$124.2 |
| Average Daily Vol. (000): | 22.0 |
| Cash (M): | \$48 |
| LT Debt (M): | \$0 |
| Source: Thomson Reuters and JMP Securities LLC | |

| FY DEC | | 2016A | 2017E | 2018E | |
|--|----|----------|-----------|----------|--|
| | | | | | |
| Revenue (\$M) | 1Q | \$0.8 | \$0.4A | | |
| | 2Q | \$0.6 | \$0.3A | | |
| | 3Q | \$0.5 | \$0.0 | | |
| | 4Q | \$0.1 | \$0.0 | | |
| | FY | \$2.0 | \$0.7 | \$0.0 | |
| EPS | 1Q | (\$0.50) | (\$0.48)A | | |
| | 2Q | (\$0.45) | (\$0.54)A | | |
| | 3Q | (\$0.49) | (\$0.51) | | |
| | 4Q | (\$0.40) | (\$0.54) | | |
| | FY | (\$1.77) | (\$2.07) | (\$1.93) | |
| Source: Company reports and JMP Securities LLC | | | | | |



MARKET OUTPERFORM | Price: \$4.95 | Target Price: \$14.00

INVESTMENT HIGHLIGHTS

Last patient dosed in the Phase 1b CF trial of QR-010, top-line data expected on September 25; we reiterate our Market Outperform rating and \$14 risk-adjusted, DCF-derived price target on ProQR Therapeutics. We are pleased that the last of all 64 patients received the final dose in the Phase 1b trial of PRQR's lead RNA therapy QR-010 in cystic fibrosis (CF) with F508del homozygous mutation, and top-line data are expected after market close on Monday, September 25. We look for the small, 28day trial to deliver good safety/tolerability data (see design in Figure 1) and optimally an efficacy signal which we characterize as a trend in FEV or quality of life (the study is too short and small to expect weight gain, in our view, and we do not anticipate improvements in sweat chloride due to the lack of uptake of QR-010 in sweat glands). This, combined with data from the NPD study (see our notes from June and last fall), could support a large Phase 2 effort. Key risks include the unexplained mechanism of action and potential difficulty in crossing the sticky mucous typical of the CF lung, which have held the stock back from a greater valuation, in our view. We see the upcoming data as a key de-risking opportunity for shares, which could bring increased visibility to PRQR as a potential new medicine for the CF community and thus good data should drive shares meaningfully higher. In the event the program is shelved for lack of efficacy, we expect the stock to trade measurably lower with downside protection of \$48M in cash and upside from the company's broad, but early-stage pipeline targeting a number of rare diseases (Figure 2).



FIGURE 1. Phase 1b Study Design



- 64 homozygous F508del CF patients (>18yrs)
- Inhalation through Pari eFlow nebulizer
- Participating investigators: 27 sites EU (CTN) and North America (TDN)
- All 4 SAD cohorts and three MAD cohort have been completed and reviewed by the DSMC
- MAD Cohort 7: All subjects completed dosing
- Endpoints:
 - Safety, tolerability, and pharmacokinetics
 - Exploratory efficacy
 - - CFQ-R Respiratory Symptom Score
 - Weight gain
 - Sweat chloride)

Source: Company Reports (2017 R&D Day)

FIGURE 2. Key Programs in the Pipeline



Cystic





QR-010 for F508del cystic fibrosis

- Positive clinical data in NPD biomarker study
- Phase 1b study top line data expected in September 2017

QR-110 for LCA10

- Pipeline
- · QRX-411 for Usher syndrome
- QRX-421 for Usher syndrome
- QRX-504 for FECD
- QRX-1011 for Stargardt's





QR-313 for DEB

Pipeline

- QRX-323 for DEB
- QRX-333 for DEB
- QRX-343 for DEB





Axiomer®

- · Novel RNA editing platform technology
- · Direct ADAR to make specific edits in RNA
- >20.000 G>A mutations

Source: Company Reports (2017 R&D Day)

August 30, 2017



Company Description

ProQR Therapeutics is a biopharmaceutical company engaged in building a platform for RNA-based therapeutics for the treatment of severe genetic disorders, with an initial focus on QR-010, a drug candidate for cystic fibrosis (CF). ProQR utilizes its unique proprietary RNA repair technology to develop candidates to specifically target and repair the defective messenger RNA (mRNA), a product of a mutated gene, and to restore the expression and function of normal protein.

Investment Risks

Regulatory risk. ProQR, like all other drug development companies, is reliant on the regulatory pace of evaluating new drugs and clinical plans and also on regulators' willingness to approve new drugs.

Clinical development risk. Drug development is a risky and capital-intensive endeavor. The vast majority of drugs that enter clinical development fail to reach the market.

Funding risk. Reliance on the capital markets poses a risk in terms of investor appetite for biotech stocks and the degree of dilution, depending upon the timing of a deal.

Competitive risk. There are other drugs in development for cystic fibrosis, by companies including Vertex, Galapagos/AbbVie, and Proteostasis. These programs could provide advantages over ProQR's candidate, which could lead to a lower than anticipated market share.

Patent risk. Patent expiration can result in a negative impact to sales. Additionally, generic companies may file abbreviated new drug applications to challenge current products with patent protection.

Sector risk. Valuation of pharmaceutical stocks is subject to both investor assessments of the prospects of the underlying companies, and investor tolerance for risk and confidence in the prospects of pharmaceutical stocks as a group. Therefore, ProQR's stock price may fall, even as the company meets or exceeds investor expectations.

August 30, 2017



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JMP Securities Disclosures:

JMP Securities currently makes a market in the security of ProQR Therapeutics N.V.

JMP Securities expects to receive OR intends to seek compensation for investment banking services from ProQR Therapeutics N.V. in the next 3 months.

JMP Securities Investment Opinion Definitions:

Market Outperform (MO): JMP Securities expects the stock price to outperform relevant market indices over the next 12 months.

Market Perform (MP): JMP Securities expects the stock price to perform in line with relevant market indices over the next 12 months.

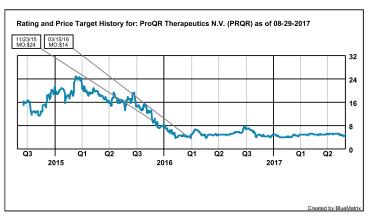
Market Underperform (MU): JMP Securities expects the stock price to underperform relevant market indices over the next 12 months.

JMP Securities Research Ratings and Investment Banking Services: (as of August 30, 2017)

| | | | | | | | # Co's Receiving IB | |
|-------------------------------|------------|----------|--------|------------|----------|--------|---------------------------|-----------|
| | | # Co's | % | | # Co's | % | Services in | % of Co's |
| | Regulatory | Under | of | Regulatory | Under | of | Past 12 | With This |
| JMP Rating | Equivalent | Coverage | Total | Equivalent | Coverage | Total | Months | Rating |
| MARKET OUTPERFORM | Buy | 275 | 59.27% | Buy | 275 | 59.27% | 73 | 26.55% |
| MARKET PERFORM | Hold | 178 | 38.36% | Hold | 178 | 38.36% | 27 | 15.17% |
| MARKET UNDERPERFORM | Sell | 8 | 1.72% | Sell | 8 | 1.72% | 0 | 0% |
| COVERAGE IN TRANSITION | | 1 | 0.22% | | 1 | 0.22% | 0 | 0% |
| RATING SUSPENDED | | 0 | 0.00% | | 0 | 0.00% | 0 | 0% |
| TOTAL: | | 464 | 100% | | 464 | 100% | 101 | 21.77% |

Stock Price Chart of Rating and Target Price Changes:

Note: First annotation denotes initiation of coverage or 3 years, whichever is shorter. If no target price is listed, then the target price is N/A. In accordance with NASD Rule 2711, the chart(s) below reflect(s) price range and any changes to the rating or price target as of the end of the most recent calendar quarter. The action reflected in this note is not annotated in the stock price chart. Source: JMP Securities.



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