

Five Prime Therapeutics, Inc.

FPRX - BUY - 2Q14 Report; FP-1039/FPA008 Ph.I/Ib Data On Track for 2H14; Adjusting PT to \$27

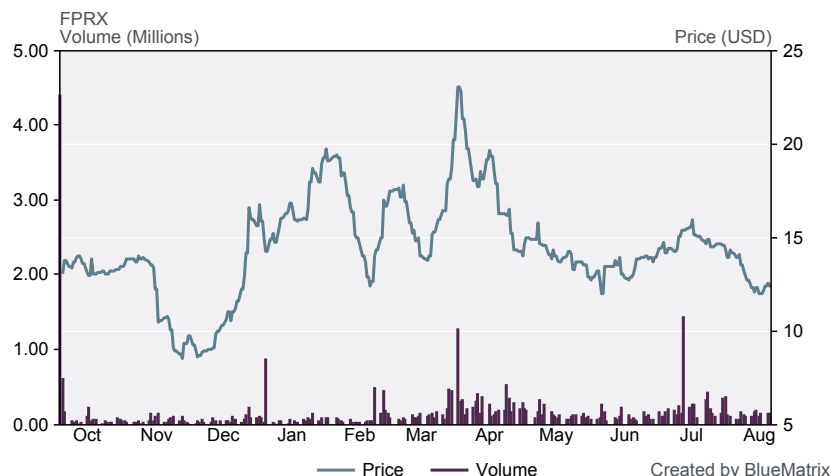
August 6, 2014

On 8/5, FPRX reported 2Q14 EPS of (\$0.46) vs. our (\$0.35) estimate. FPRX/GSK are moving '1039 through the dose escalation portion of the ongoing Ph.Ib trial in front-line and refractory FGFR1+ NSCLC and mesothelioma. Notably, FPRX reports that the 5-20mg doses being examined in NSCLC should be therapeutically active levels. We continue to see a high probability of '1039's success in FGFR1+ NSCLC, and we view the initial Ph.Ib results as a positive catalyst for FPRX by YE'14. FPRX has completed Ph.I dosing of '008 in healthy volunteers, and the company expects to report initial safety/biomarker results for the drug in 2H14. We believe FPRX is substantially undervalued, and we would buy the stock ahead of key '1039 and '008 results in 2H14. We are lowering our PT to \$27 from \$28 on model adjustments.

Nearing initial Ph.Ib FGFR1+ NSCLC results for '1039. FPRX will report top-line Ph.Ib results for '1039 in NSCLC before YE'14, and we expect encouraging data, based on the drug's selective FGFR1 pathway inhibition. Detailed Ph.Ib results will likely be reported at 1H15, possibly at ASCO'15. We remain positive on the LT potential of '1039 and expect the drug to gain prominence among developmental FGFR1 pathway inhibitors in '15.

'008 safety/biomarker results in 2H14 should be revealing. Although we have had reservations regarding '008's potential immunosuppressive side effects, we are encouraged that enrollment in the healthy volunteer portion of a Ph.I trial has concluded with no noted safety concerns. Accordingly, we expect FPRX will report favorable Ph.I '008 safety/biomarker results in 2H14 and move the drug into Ph.Ib RA testing. FPRX plans to select a second '008 indication by YE'14, diversifying the development program.

FPA144 into the clinic by YE'14. We continue to believe that FPRX's focus on FGFR2b+ gastric cancer with '144 has strong mechanistic rationale. We see a reasonable path to rapid approval of '144 in this setting, given our expectation of single-agent efficacy in early Ph.I/II testing. Despite a limited WW patient pool (we est. ~10K) in this gastric cancer subpopulation, we believe penetration/pricing of '144 would be high based on unmet medical need.



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FPRX BUY

EARNINGS RELEASE

Investment Thesis: Growth

SHARE PRICE \$12.38
PRICE TARGET \$27.00

EPS (\$) (FY Dec)	1Q	2Q	3Q	4Q	FY
2013	(0.47)	(0.47)	(2.74)	(0.43)	(5.23)
P/E					NM
2014	(0.46)	(0.46)	(0.32)E	(0.31)E	(1.54)E
Prior	—	(0.35)	(0.30)E	(0.28)E	(1.39)E
P/E					NM
2015	—	—	—	—	(0.70)E
Prior	—	—	—	—	(0.55)E
P/E					NM

Market Data

52-Week Range	\$8.02 - \$23.33
Shares Out (M)	21.4
Market Cap (M)	\$265
ADV (3 mo; 000)	170

Five Prime Therapeutics Inc.

Five Prime Therapeutics Inc.			2014										
Amounts in thousands, except per-share figures			2013A	1QA	2QA	Prior 2QE	3QE	4QE	2014E	Prior 2014E	2015E	2016E	2017E
Income Statement													
Revenues:													
Collaboration Revenue	13,791	3,546	4,981	4,720	6,005	6,550	21,082	20,821	40,640	28,454	55,200		
FP-1039 Revenue (2)	-	-	-	-	-	-	-	-	-	-	-	12,206	
Total operating revenue	13,791	3,546	4,981	4,720	6,005	6,550	21,082	20,821	40,640	28,454	67,406		
Operating expenses:													
Cost of goods	-	-	-	-	-	-	-	-	-	-	-	-	
Research & development	32,785	8,926	11,873	9,165	9,850	10,085	40,734	36,919	45,215	50,188	53,451		
Selling, general & administrative	10,427	3,280	3,024	3,310	3,301	3,595	13,200	13,690	14,190	16,319	17,787		
Total operating expenses	43,212	12,206	14,897	12,475	13,151	13,680	53,934	50,609	59,405	66,507	71,238		
Income (Loss) from operations	(29,421)	(8,660)	(9,916)	(7,755)	(7,146)	(7,130)	(32,852)	(29,788)	(18,765)	(38,053)	(3,832)		
Other income (expense)	549	16	50	193	204	209	479	622	521	513	183		
Pretax income (loss)	(28,872)	(8,644)	(9,866)	(7,562)	(6,942)	(6,921)	(32,373)	(29,166)	(18,243)	(37,540)	(3,649)		
Income tax provision (benefit)	-	-	-	-	-	-	-	-	-	-	-		
Net income (loss)	(28,872)	(8,644)	(9,866)	(7,562)	(6,942)	(6,921)	(32,373)	(29,166)	(18,243)	(37,540)	(3,649)		
Basic & diluted net loss per share	(\$5.23)	(\$0.46)	(\$0.46)	(\$0.35)	(\$0.32)	(\$0.31)	(\$1.54)	(\$1.39)	(\$0.70)	(\$1.32)	(\$0.13)		
Basic & diluted common shares outstanding (1)	5,523	18,841	21,465	21,350	22,010	22,555	21,372	21,353	26,200	28,368	29,018		

(1) Reflects conversion of preferred stock to common stock

(2) Probability adjusted estimates

Source: Company documents and Guggenheim Securities, LLC

Changes to our model

Based on FPRX's 2Q14 results, we have updated EPS estimates for 3Q14-4Q14, 2014, and 2015. Our new 3Q14 and 4Q14 estimates are (\$0.32) and (\$0.31), respectively, vs. (\$0.30) and (\$0.28) prior. Our current 2014 and 2015 estimates are (\$1.54) and (\$0.70) vs. (\$1.39) and (\$0.55) prior.

Valuation and Risks

Our \$27 price target is based on a forward, 10-year DCF of probability-adjusted sales estimates for FP-1039 in NSCLC. We assign a 50% probability of clinical/commercial success for FP-1039 in FGFR1+ stage III/IV squamous NSCLC. Given positive Ph.I results for the biologic in this setting, we believe this is an appropriate, if not conservative, probability adjustment. Our valuation applies a 15.8% discount rate to reflect the relatively early stage of FPRX's lead program and a 5.25% terminal growth rate (2% prior) to reflect the company's strong collaboration profile and its proprietary drug discovery platform to continue to identify new protein therapeutic targets.

Key risks to our price target include, but are not limited to, negative clinical trial results, either related to safety or efficacy, for FPRX's drug candidates; failure to gain U.S./E.U. regulatory approval for FP-1039, FPA008, or FPA144; emerging clinical results for competitive therapies to these therapies in NSCLC/RA/GC; failure of FPRX's collaborative partners, most importantly GSK, to adequately advance development of clinical candidates; failure of FPRX to generate adequate financing; challenges to FPRX's intellectual property positions; and lower-than expected U.S./ROW sales of FP-1039.

		Terminal growth rate									
		4.25%	4.50%	4.75%	5.00%	5.25%	5.50%	5.75%	6.00%	6.25%	
Discount rate	14.80%	\$ 29.99	\$ 30.62	\$ 31.28	\$ 31.98	\$ 32.71	\$ 33.48	\$ 34.29	\$ 35.15	\$ 36.06	
	15.05%	\$ 28.71	\$ 29.30	\$ 29.91	\$ 30.56	\$ 31.24	\$ 31.96	\$ 32.71	\$ 33.50	\$ 34.34	
	15.30%	\$ 27.50	\$ 28.05	\$ 28.62	\$ 29.22	\$ 29.86	\$ 30.52	\$ 31.22	\$ 31.96	\$ 32.74	
	15.55%	\$ 26.35	\$ 26.86	\$ 27.40	\$ 27.96	\$ 28.55	\$ 29.17	\$ 29.82	\$ 30.50	\$ 31.22	
	15.80%	\$ 25.25	\$ 25.73	\$ 26.24	\$ 26.76	\$ 27.31	\$ 27.89	\$ 28.49	\$ 29.13	\$ 29.80	
	16.05%	\$ 24.22	\$ 24.67	\$ 25.14	\$ 25.63	\$ 26.14	\$ 26.68	\$ 27.25	\$ 27.84	\$ 28.46	
	16.30%	\$ 23.23	\$ 23.65	\$ 24.09	\$ 24.55	\$ 25.03	\$ 25.54	\$ 26.06	\$ 26.62	\$ 27.20	
	16.55%	\$ 22.29	\$ 22.69	\$ 23.10	\$ 23.53	\$ 23.98	\$ 24.45	\$ 24.95	\$ 25.46	\$ 26.00	
	16.80%	\$ 21.40	\$ 21.77	\$ 22.16	\$ 22.56	\$ 22.98	\$ 23.43	\$ 23.89	\$ 24.37	\$ 24.87	
	17.05%	\$ 20.55	\$ 20.90	\$ 21.26	\$ 21.64	\$ 22.04	\$ 22.45	\$ 22.88	\$ 23.33	\$ 23.80	

Source:Guggenheim Securities, LLC

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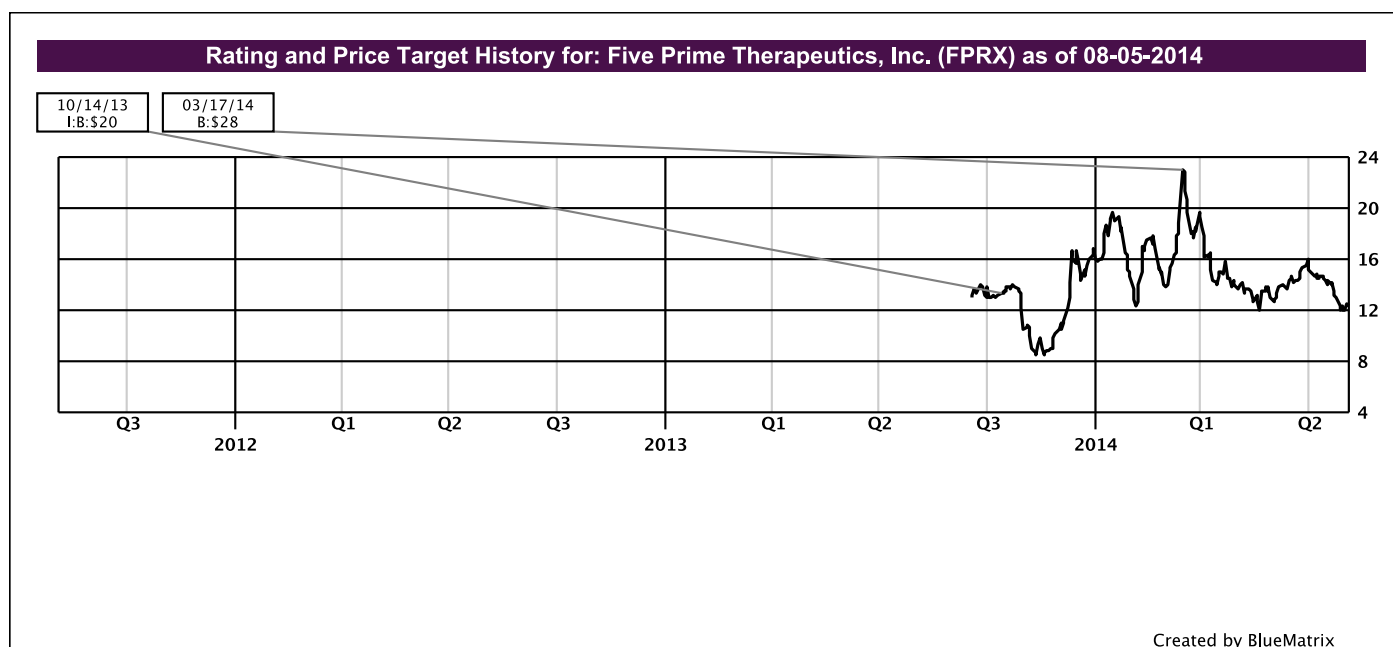
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