



Investor Update

September 2022



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- **Proprietary 3base® technology platform** that provides a revolutionary approach for molecular diagnostics
- **Dramatically simplifies multiple pathogen testing** from a single sample (multiplexing)
 - More informative – detect related pathogens/genes using fewer tests;
 - Simpler – fewer reagents with better matched, ideal reaction conditions.
- **Strong commercial adoption** in Australian market – expanding into European and US markets
 - 4 Diagnostic Test Kits cleared in one or more markets – 5 new kits completing development;
 - Strong continued revenue growth – FY22 revenue A\$35.4 million (+25% yoy), cash flow positive.
- **Multiple drivers for growth** – funded from anticipated future cash flow and existing balance sheet
 - Commercial expansion – into large international markets (Europe and US);
 - Product expansion – multiple new products completing development or registration;
 - Instrument expansion – embed 3base® technology in high-volume customers sites.





Financial information

Share price (2-Sep-22)	A\$0.95
Shares on issue	143.4m ¹
Market capitalisation	A\$136.2m
Cash (30-Jun-22)	A\$36.9m
Debt (30-Jun-22)	Nil
Enterprise value	A\$99.3m

Top shareholders %

Asia Union (Chris Abbott private investment)	26.2%
Perennial Value Management	15.0%
Fidelity International	6.9%
Directors & management	3.0%

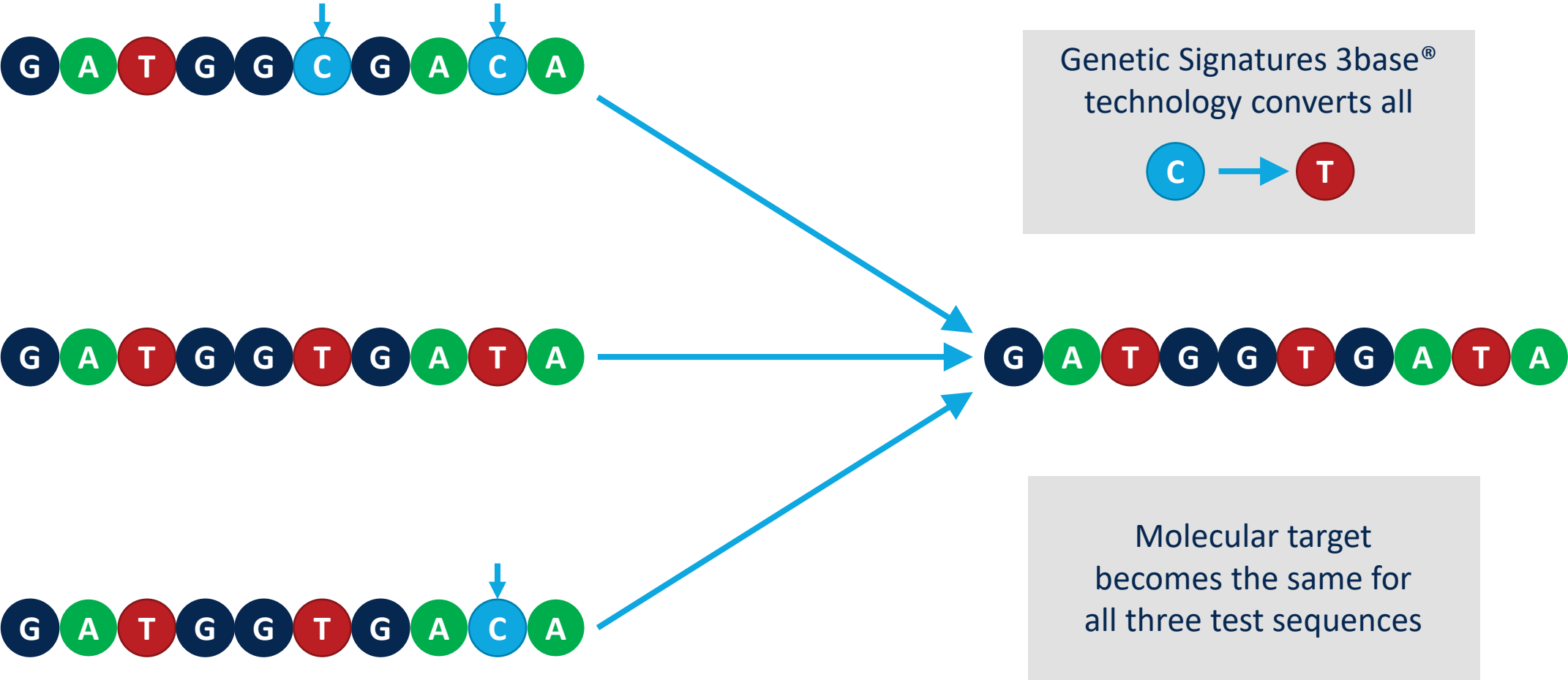




- **Molecular diagnostic tests are based on DNA/RNA sequences**
 - DNA/RNA is unique to each organism.
- **Molecular diagnostic tests are recognised as the ‘gold standard’**
 - Precisely targeted and highly specific – PCR tests;
 - Can be less effective when:
 - Need to detect multiple pathogens or genes;
 - New strains or subtypes of pathogens emerge.
- **Molecular diagnostic tests are often multiplexed**
 - Multiplexing refers to conducting multiple tests simultaneously
- **Genetic Signatures 3base[®] makes multiplexing easier:**
 - **More informative** – detect related pathogens/genes using fewer tests;
 - **Simpler** – fewer reagents with better matched, reaction conditions.



How 3base[®] simplifies molecular targets



* Human Papilloma virus sequences



Proprietary method - patented until 2031+

1. Extraction and Conversion

- *natural 4 bases to 3base[®]*



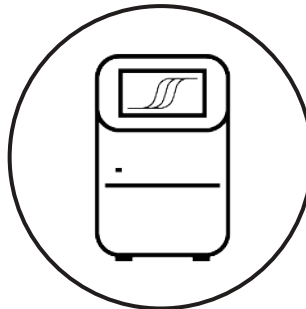
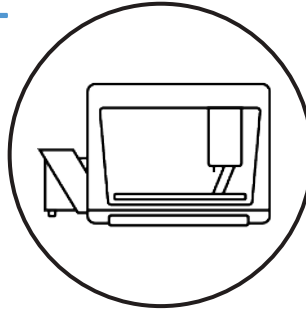
2. DNA Amplification (PCR)

- *uses 3base[®] DNA*



3. Detection (primers & probes)

- *uses 3base[®] DNA*



Benefits

- ✓ Rapid
- ✓ High throughput
- ✓ Informative
- ✓ Sensitive
- ✓ Specific
- ✓ Low manual involvement
- ✓ Reduced contamination risk

Equipment

- ✓ Run on standard equipment.
- ✓ Genetic Signatures' instruments further automate the process;
 - increase throughput
 - reduce labour.



- **Syndromic testing:** simultaneously test for multiple pathogens that all can cause the same signs and symptoms
 - **Respiratory infections:** cough, runny nose, sore throat, headache, breathlessness;
 - **Gastrointestinal infections:** nausea, diarrhea, vomiting, abdominal cramps, fever.
- **Syndromic testing**
 - allows single test to determine the potential cause of a disorder;
 - avoids having to order separate tests for each possible pathogen.
- **Genetic Signatures' *EasyScreen™* is ideal for Syndromic Testing**
 - Tests for over 100 different types of pathogens;
 - Able to detect variants (i.e. different strains or subtypes);
 - Combine tests to create *EasyScreen™* Syndromic Detection Test Kits;
 - Detect >20 different pathogens from a single sample.

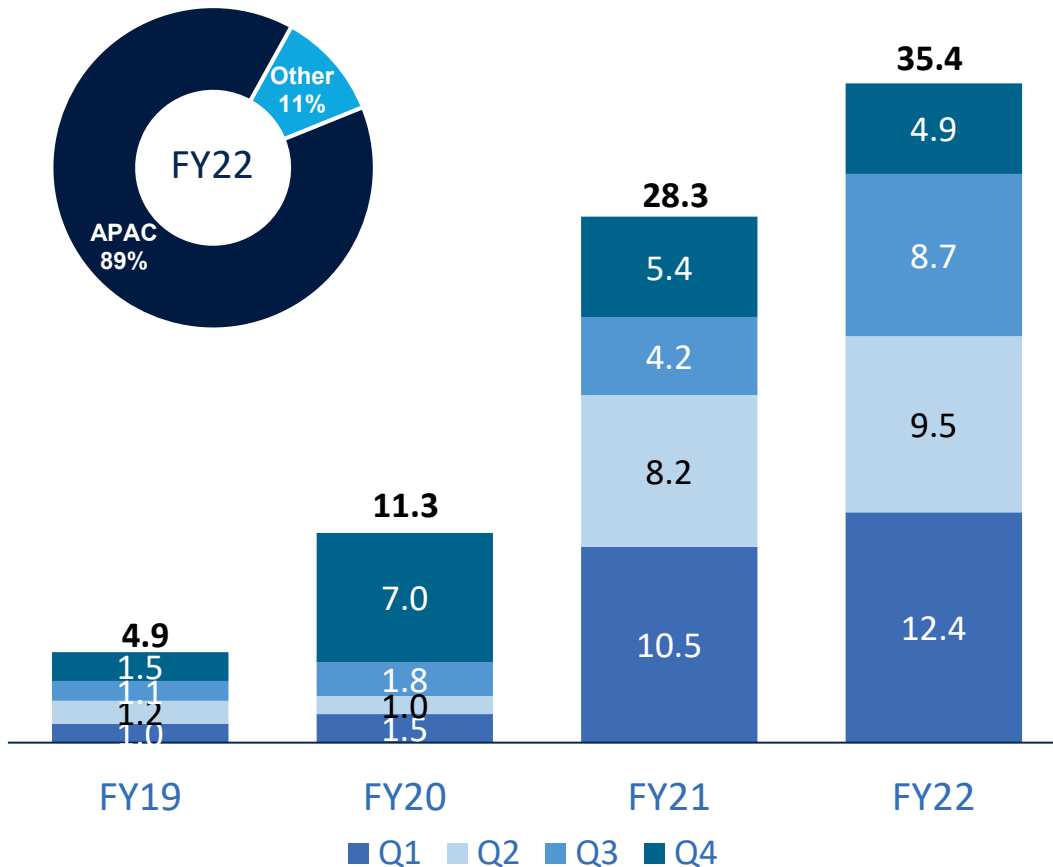


Robust pipeline with multiple products cleared for sale





Sales Revenue (A\$m)



- **FY22 sales revenue of \$35.4 million (+25% yoy, 93% 4yr CAGR)**
- **Growing contribution from international sales**
 - Leveraging experience in Australian market;
 - European orders for non-Covid Syndromic Kits;
 - Significant US contributions to come once FDA clearance secured.
- **Strong demand for SARS-CoV-2 tests during FY21 & FY22**
 - Scale-back of molecular testing programs;
 - Growing contribution from other *EasyScreen™* Kits;
 - Shifting from COVID to Syndromic Respiratory.
- **Successful strategy of targeting high-volume customer groups**
 - High-throughput labs
 - Multi-hospital groups
 - Private pathology chains
 - Government-led programs



A\$'000s	FY22	FY21
Sales revenue	35,421	28,284
Cost of materials & freight	(11,989)	(9,804)
Gross profit	23,432	18,480
Employee benefits expense	(11,948)	(10,423)
Scientific consumables & clinical	(3,133)	(2,761)
Other expenses	(3,889)	(2,550)
EBITDA	4,462	2,746
Depreciation & amortisation	(1,616)	(1,425)
EBIT	2,846	1,321
Other income	217	435
Profit before tax	3,063	1,756
Income tax expense	-	-
Net income	3,063	1,756
Net cash inflows/(outflows)	6,776	(1,055)
Cash balance (30 June)	36,897	30,121

● Profitable, cash flow positive with accelerated sales growth

- Sales revenue up 25% yoy;
- Cash flow positive during FY22;
- Gross margin on materials of 70%.

● Strong balance sheet – planned investment in growth opportunities funded from existing cash and anticipated future cash flows:

- International markets;
- New products;
- Regulatory clearances;
- Product launches;
- Internal capabilities (clinical, regulatory);
- Technology improvements;
- Sample-to-result instrument.



- **Leverage experience in Australian market to grow international sales**
 - Europe – drive adoption of other 3base[®] products;
 - US – build 3base[®] franchise once Protozoan Detection Kit is cleared.
- **Build and expand portfolio of commercially-available *EasyScreen*[™] products**
 - Expand menu of 3base[®] tests;
 - Develop new *EasyScreen*[™] Syndromic Test Kits;
 - Secure registration for new *EasyScreen*[™] products.
- **Embed 3base[®] technology in high-value customer's workflow**
 - Increase adoption of *EasyScreen*[™] kits for more applications;
 - Broader range of commercial arrangements with customers.





North America accounts for 40% of the global molecular diagnostics market

- **Enteric Protozoan Screening Kit**
 - Completed recruitment for 1,500 subject clinical trial;
 - Targeting 510(k) submission in Q4 CY2022;
 - First *EasyScreen*™ product for US
- **High need for Enteric Protozoan Kit**
 - 5.5 million tests conducted in the US pa;
 - Primarily culture/microscopy: slow, labour intensive, unreliable;
 - Detects leading protozoan infections;
- **US Market preparation activities underway**
 - KOL webinars;
 - Sales & marketing presence in US;
 - Warehousing facility in Los Angeles;
 - Initial focus on 30 high-throughput, centralised labs;
- **First 3base® product for the US**
 - Regulatory dossier relevant for other *EasyScreen*™ products.



- **Expand available *EasyScreen*™ Syndromic Kits**

- 3 kits research use only (RUO) – tropical diseases, MMR & meningitis;
- Other kits in development (tick-borne, skin infections, etc.);
- Advance additional 3 products through the FDA process

- **Improve and enhance 3base® technology platform**

- Saliva-based protocol for SARS-CoV-2 cleared by TGA;
- Process improvements for amplification and time-to-result

- **Next-generation, “sample-to-result” instrument**

- Highly automated, high-throughput;
- Ideally suited for high-volume commercial users;
- Embed use of 3base® with customers;
- Facilitates different commercial models;



Image is concept only



- **US Enteric Protozoan Kit**
 - File 510(k) application by end of CY2022;
 - Launch product once clearance is granted.
- **Increase sales and presence in UK and European markets**
 - Contracts with new customers;
 - Direct sales force and distributor appointments.
- **Initiation of US clinical trial for next *EasyScreen*™ product**
- **R&D initiatives for new products**
 - New tests and *EasyScreen*™ kits;
 - Technology improvements;
 - Development of Next Generation instrument prototype.
- **Quarterly sales updates and progress reports**





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