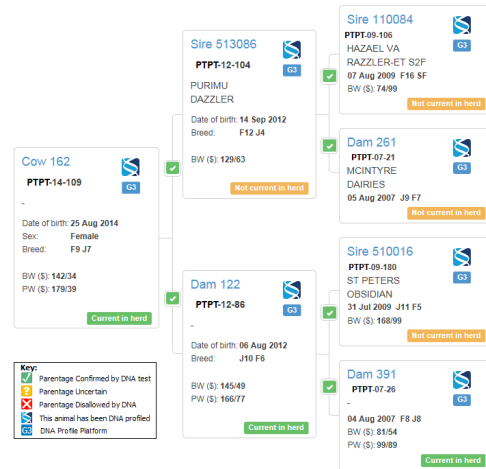


## GeneMark® G3 DNA Parentage Verification | Dairy Cattle

GeneMark G3 DNA Parentage Verification provides you with the information you need to make better on farm management decisions. Don't make farming harder than it needs to be - take advantage of what DNA technology has to offer.



Reduce stress and time during calving	No need to match dams to calves in the paddock. No matter who is working on farm, rest-assured your parent matching is taken care of.
Improve herd records	Help increase herd ancestry accuracy and maximise your herd's future profitability and genetic gain by ensuring you are keeping the right animals.
Reduce inbreeding	Don't run the risk of losing production due to inbreeding.
Know what you're buying	When you purchase a GeneMark G3 DNA parent verified animal be confident in the knowledge of correct BW and parentage.
Make more informed decisions	Know which top BW animals to breed from and which ones to sell.

### Whole Herd

- ✓ All dams, calves, and natural mating (NM) sires are tissue sampled and G3 DNA profiled (LIC® AB sires are G3 DNA profiled)
- ✓ Calves are G3 DNA profiled and parentage tested to find a match to your G3 DNA profiled dams and sires
- ✓ Each year simply send in tissue samples of your new season's calves to be parentage tested. Also send, for profiling, tissue samples of bought-in dams and natural mating sires used

### Individual Animal

- ✓ Confirm parentage of selected animals against your natural mating sires and AB sires marketed by LIC or 3rd party companies which are G3 DNA profiled
- ✓ G3 DNA profiled dam matching to calves available on request
- ✓ Determine the true Breeding Worth (BW) of the animal

### MINDA® Pro GeneMark Reports

- ✓ Ancestry details of individual animals
- ✓ DNA profile summary - a report that summarises a whole herd to show a potential buyer that your herd is fully G3 profiled

### Whole Herd customers can now batch book calf samples

Batch 1 \$26.52 per sample

Batch 2 Batch fee \$95 + \$2.95 per sample on top of the normal price \$26.52

Batch 3 and upwards Batch fee \$95 + \$4.85 per sample on top of the normal price \$26.52

Prices are GST exclusive

Product                      \$/Sample    Sample Type    Features

### Whole Herd G3 DNA Parentage Testing

Profile Only (includes natural mating sires)	\$26.52	Tissue	<ul style="list-style-type: none"> <li>All animals submitted will receive a unique G3 DNA profile which is used in the parentage analysis of calves each season</li> <li>The G3 DNA profiles of all animals profiled are stored indefinitely</li> <li>Tissue samples of any new animals brought into the herd should be sent to GeneMark for G3 DNA profiling</li> </ul>
Profile + Parentage	\$26.52	Tissue	<ul style="list-style-type: none"> <li>G3 DNA profile and parentage analysis on current seasons calves to dams and sires</li> <li>Each year take tissue samples of your new seasons calves and send to GeneMark to be G3 DNA profiled and parent-matched</li> <li>Up to 4-5 weeks turnaround time</li> </ul>

### Whole Herd - Optional Extras

Previous Season Progeny	\$30.60	Tissue	<ul style="list-style-type: none"> <li>Previous season progeny requiring sire and dam verification <b>Yearlings are considered to be previous season progeny</b></li> </ul>
Uncertain Sire Search	\$10.20 (additional)	Tissue	<ul style="list-style-type: none"> <li>Dams &amp; NMs requiring sire verification only</li> </ul>
Additional Search (additional analysis after initial profiling and parent search)	\$10.20 (additional)		<ul style="list-style-type: none"> <li>Parent search using additional G3 DNA profiled natural mating sires, nominated sires and/or nominated dams</li> </ul>
Profile/Parentage + A2	\$10.20 (additional)	Tissue	<ul style="list-style-type: none"> <li>Animals to be tested for A2 on the same tissue sample</li> </ul>
Profile/Parentage + BVD	\$12.70 (additional)	Tissue	<ul style="list-style-type: none"> <li>Animals to be tested for BVD on the same tissue sample</li> <li>Calves <b>MUST</b> be over 35 days of age</li> </ul>

NB: Successful Whole Herd parent matching is best achieved when 100% of the animals used in the herd are G3 DNA profiled. This includes: all bulls, dams, previous seasons progeny, and calves.

### Individual Animal G3 DNA Parentage Testing

Profile Only	\$36.72	Tissue	<ul style="list-style-type: none"> <li>G3 DNA profile of dams, sires and calves</li> </ul>
Profile + Parentage	\$36.72	Tissue	<ul style="list-style-type: none"> <li>G3 DNA profile and parentage analysis on calves. This includes all G3 DNA profiled recorded sires (derived from MINDA), natural mating sires, nominated sires and nominated dams <b>NB:</b> Any nominated animals must be specified on submission form and be G3 DNA profiled</li> </ul>
Additional Search (additional analysis after initial profiling and parent search)	\$15.30 (additional)		<ul style="list-style-type: none"> <li>Parent search using additional G3 DNA profiled natural mating sires, nominated sires and/or additional dams</li> </ul>
Profile/Parentage + A2	\$10.20 (additional)	Tissue	<ul style="list-style-type: none"> <li>Animals to be tested for A2 on the same tissue sample</li> </ul>
Profile/Parentage + BVD	\$12.70 (additional)	Tissue	<ul style="list-style-type: none"> <li>Animals to be tested for BVD on the same tissue sample</li> <li>Calves <b>MUST</b> be over 35 days of age</li> </ul>

### Additional Services

A2 Only	\$22.95	Tissue	<ul style="list-style-type: none"> <li>Animals to be tested for A2 only</li> </ul>
Retrospective A2	\$10.20		<ul style="list-style-type: none"> <li>In most cases, GeneMark can report an A2 result from any animal with an existing G3 DNA profile</li> </ul>
Freemartin (XX/XY chimera test)	\$91.80	EDTA (purple) Blood sample only	<ul style="list-style-type: none"> <li>Female animals with a male twin are known to be infertile and are called freemartins</li> <li>Up to 4 weeks turnaround time</li> </ul>

NB: Additional prices are over and above the G3 DNA profiling price.

Test prices do not include sample collection costs. All prices exclude GST. LIC reserves the right to amend charges and fees at any time. Prices effective as of 1st June 2017.

A Whole Herd customer will be classed as a "New Customer" from when their first calf samples are received at GeneMark and ten months thereafter. Within this time period the customer will be eligible for any of the GeneMark new customer benefits.

**Important Notice:** In accordance with the New Zealand Dairy Herd Testing standard regulation, all dams **MUST** have a calving date recorded on database before GeneMark receive samples. The GeneMark system has been updated and will error if dams are missing calving dates causing any associated calf's parentage verification results to be unable to be uploaded to your MINDA records. This requirement is not new and has always been a rule of the product, however due to the regulation this has now been enforced.

For more information on GeneMark Parentage Verification contact your local Farm Solutions Manager. Alternatively, call GeneMark on 0800 436 362, email [genemark@lic.co.nz](mailto:genemark@lic.co.nz) or visit [www.lic.co.nz](http://www.lic.co.nz).

Prices are GST exclusive.

