



How to Order

1. Fill out section 1, Customer and Payment Information, in its entirety.
2. Proceed to section 2, Submission Information. Use the Igenity Profile page to submit information for Igenity Beef or SeekSire™ parentage. If requesting defects and conditions, proceed to Traits and Conditions submission page.
3. For Parentage Verification, complete the Parent Verification Order Form on page 13.
4. Fill out your order information in section 3, Summary Information.
5. Submit order and physical samples as indicated in section 4, Submission Information.

Note: By filling out this order form, you acknowledge a \$10.00 service fee will be added to this order.

Ship samples to: **Neogen® Genomics, 4131 N 48th St, Lincoln, NE 68504**

Section 1: Customer and Payment Information

Producer Information

Operation name: _____ Account number: _____

Producer name: _____

Mailing address: _____ City: _____ State: _____ Zip code: _____

Phone: _____ Email: _____

Type of operation: Cow/calf Stocker Feedlot Seedstock Veterinary Club calves

Sales representative: _____

How do you wish to receive your results? Email Mail Encompass E-Z

I wish to be notified if my cattle qualify for Igenity Branded

Who else should receive results? (email address): _____

Billing Information

Billing information is the same as producer information

Operation name: _____ Producer name: _____

Mailing address: _____ City: _____ State: _____ Zip code: _____

Method of Payment

Invoice (existing customers only) Credit card Check (enclosed, payable to Neogen)

Name on card: _____ Card type: Visa Mastercard Discover American Express

Card number: _____ Exp. date: _____ SCC: _____

Signature: _____

I acknowledge a \$10.00 service fee will be added to this order



Additional notes/comments:

Igenity results are returned in 21–28 business days from the samples’ arrival at Neogen. An electronic order form or online submission will minimize turnaround time.

Section 2: Submission Information

Igenity Beef Profiles

- See order form on page 5.
- Includes DNA ranking for a number of traits in 1–10 scores, along with free parentage verification. SeekSire Parentage is also available on the Igenity profile order form.

Traits and Conditions

- See order form on page 9.
- Screen for beneficial and adverse genetic conditions, identify sires and dams carrying these traits, or conduct simple club calf certification.

Parentage Verification

- If using registered sires, contact the relevant breed association for release of parentage markers.
- Parentage verification is included for Igenity Beef. Otherwise, SeekSire Cattle Parentage can be selected if parentage verification is desired.

Section 3: Summary Information

| | Description | Price per Profile (USD) | # of Profiles | Total (USD) |
|------------------|--|-------------------------|---------------|-------------|
| Igenity Profiles | <p>Igenity Beef 17 Key Traits Three Indexes Results in 3–4 Weeks</p> <ul style="list-style-type: none"> • Designed for cattle of any combination Angus, Red Angus, Hereford, Simmental, Limousin, Charolais, or Gelbvieh descent • Includes SeekSire Parentage verification (if appropriate information provided) • Great tool for commercial breeders wishing to select better replacement heifers | \$30.00 | | |

| | Description | Add-on Pricing* | Standalone Pricing* | # of Add-on Tests | # of Standalone Tests | Total (USD) |
|----------------------------|--|-----------------|---------------------|-------------------|-----------------------|-------------|
| Screening | SeekSire Parentage | - | \$17.00 | - | | |
| | Envigor™ | \$6.00 | \$21.00 | | | |
| | BreedSeek AddOn | \$5.00 | - | | | |
| | Igenity Bovine Congestive Heart Failure (BCHF) | \$8.00 | \$18.00 | | | |
| | BVD PI | \$5.00 | \$5.00 | | | |
| Visual Traits | Horned/Polled | \$25.00 | \$42.00 | | | |
| | Coat Color (Homozygous Black) | \$5.00 | \$16.00 | | | |
| | Coat Color Diluter (DL) | - | \$25.00 | - | | |
| | Dun Coat Color (DN) | - | \$25.00 | - | | |
| Carcass | Tenderness/Leptin | - | \$26.00 | - | | |
| | Myostatin (MYO) | - | \$25.00 | - | | |
| Genetic Abnormalities | Arthrogryposis Multiplex (AM) | - | \$25.00 | - | | |
| | Contractural Arachnodactyly (CA) | - | \$25.00 | - | | |
| | Chondrodysplasia (CHO) | - | \$25.00 | - | | |
| | Developmental Duplication (DD) | - | \$25.00 | - | | |
| | Digital Subluxation (DS) | - | \$25.00 | - | | |
| | Hypotrichosis (HY) | - | \$25.00 | - | | |
| | Idiopathic Epilepsy (IE) | - | \$25.00 | - | | |
| | Alpha-mannosidosis (MA) | - | \$25.00 | - | | |
| | Neuropathic Hydrocephalus (NH) | - | \$25.00 | - | | |
| | Oculocutaneous Hypopigmentation (OH) | - | \$25.00 | - | | |
| | Osteopetrosis (OS) | - | \$25.00 | - | | |
| | Pulmonary Hypoplasia w. Anasarca (PHA) | - | \$25.00 | - | | |
| | Tibial Hemimelia (TH) | - | \$25.00 | - | | |
| Bundles | Igenity Beef Defect Bundle | \$40.00 | \$60.00 | | | |
| | All Defects | - | \$250.00 | - | | |
| Grand Total (USD)** | | | | | | |

“-” Means this product is not available for ordering.

* Prices are subject to change without notice.

**Sales tax is applicable in some states and will be applied to invoices in those states. If you are unsure whether to add sales tax, we recommend you pay by credit card. If you are a tax-exempt organization, please fax an exception certificate to Neogen Accounts Receivable at 517.372.0567.



Section 4: Submission Information

Please verify all of the information contained in this spreadsheet is correct. If so, please submit your form using the Submit Form button below. Then, mail your physical samples to Neogen at the address provided below. Be sure to include a sample receipt with your samples, so they can be easily identified upon arrival. **Note:** A \$5.00 hair processing fee will be added to all hair samples submitted for testing. Additionally, if not placed directly on a hair card, a \$4.00 carding fee will also be placed on top of the hair processing fee.

Please print your sample receipt and mail a copy with your physical samples to: **Neogen Genomics, 4131 N 48th St, Lincoln, NE 68504**

Submit this form by emailing your submission to DNAhelp@neogen.com, or by clicking the submit button below (**disclaimer: you will need to manually attach this pdf form to the email**):

Submit Form

*The above form will need to be saved and printed for inclusion with samples.

By submitting this form, I acknowledge I have read and agree to this disclaimer.

Neogen Disclaimer: Notwithstanding anything contained herein, the services provided hereunder are delivered “as-is.” Neogen warrants only that it will use commercially reasonable efforts to process the sample(s) provided herein to Neogen from you. Neogen provides no other warranty of any kind, whether express or implied, (including without limitation, all warranties of merchantability, fitness for a particular purpose, title, and noninfringement), and Neogen assumes no legal liability or responsibility for the accuracy, completeness, reliability, or usefulness of any information disclosed, nor does Neogen represent that its use would not infringe privately-owned rights. All results will be predicated on the assumption that each sample is obtained from a single cattle beast, and will be reported in association with the sample designations provided by you. Neogen assumes no responsibility for correctly identifying a particular animal as the source of any sample.

In no event shall Neogen or its agents or officers be liable to any damages whatsoever (including without limitation, damage for loss of profiles or business interruption, or any indirect, special, punitive, consequential, or incidental damages) arising out of the use of the information and data obtained through the services provided hereunder, even if Neogen has been advised of the possibility of such damages.

NR Retest Policy

Please be aware when collecting samples that we do accept resubmissions for any samples that fail testing (receive an NR score) but these samples will be retested at the full price of a new test. If you have questions about the sample collection or resubmission, please contact Neogen.



Operation name: _____

Please complete the information in the light green column marked “REQUIRED”. The following information is required:

- **Animal ID:** Refers to a visual ear tag or animal name identifying each animal on the operation. Ex: 923
- **Sample barcode:** A unique barcode that must be recorded for sample identification (e.g., the TSU barcode). Ex: NE100001
- **Sex:** Male (M) or Female (F)*
- **Breed:** Please refer to the breed key on the right side of this page.* Ex: AN/HF
- **Sample type:** Tissue, blood, or hair samples are accepted. Anything else should be denoted as “other”. An additional \$4.00 processing fee will be applied to all hair samples.

Optional information can be completed if desired:

- **Batch ID:** An optional field that allows the producer to identify pasture or age groups within and between orders.*
- **SeekSire Parentage:** Parentage verification comes complimentary with an Igenity Profile if parent information is provided. This product to be ordered only if not purchasing an Igenity Profile.
- **Envigor:** Product to measure heterozygosity in crossbred cattle as an indication of hybrid vigor. Reported on a 1 (low) to 10 (high) scale.
- **BreedSeek** identifies breed-specific markers present in individual animals to determine which breeds have the highest representation in that specific animal. BreedSeek reports breed composition for Primary and Secondary breeds of origin and %. BreedSeek accurately reports breed composition for the following breeds: Angus, Akaushi, Brahman, Gelbvieh, Limousin, Hereford, Holstein, Nelore, Red Angus, Shorthorn, Simmental, and Wagyu.†
- **Igenity Bovine Congestive Heart Failure (BCHF):** A test that summarizes an animal’s carrier status for known BCHF risk factors based on their potential to pass those genes to future progeny. Reported on a 1 (low) to 10 (high) scale.
- **BVD PI:** An add-on test for Bovine Viral Diarrhea diagnostic testing.
- **Coat color (homozygous black):** An add-on test for coat color genes that determine if an animal carries a recessive red allele and will have a red or black coat.
- **Horned/Polled:** An add-on test to determine if an animal carries a horned allele. Results do not reveal the presence or absence of scurs.
- **Igenity Beef defect bundle:** An add-on test to determine carrier status for the following beef defects: NH, DD, PHA, TH.

| Breed | Abbreviation |
|----------------|--------------|
| Aberdeen | AA |
| Angus | AN |
| Black Hereford | HB |
| Charolais | CH |
| Composite | CO |
| Gelbvieh | GV |
| Hereford | HF |
| Limousin | LM |
| Maine-Anjou | MA |
| Other | OT |
| Red Angus | AR |
| Shorthorn | SH |
| Simmental | SM |

Please complete this form on the back side, submit, and mail sample receipt along with samples. Be sure to mark (X) each test that you would like performed on each sample. Igenity Beef is designed for use on straightbred and crossbred cattle of Angus, Red Angus, Hereford, Simmental, Gelbvieh, and Limousin breed backgrounds. Use on other breeds, especially those of exotic backgrounds, is less reliable and should be used only for within-herd comparison. For advice on testing options or learn more about using your results, contact your Neogen beef genomics territory manager.

* Providing this information allows it to appear in Encompass E-Z.

† Animals with breed composition not included in this list will not receive accurate breed percentage results.



| REQUIRED | | | | | OPTIONAL | | | | | | | | | |
|----------------|-----------------|----------|--------------|--------------------------------|---------------------------|--------------|--------------------|---------|-----------------|--------------|--------|-------------------------|---------------|----------------------------|
| Animal ID | Sample Barcode | Sex | Breed | Sample Type (TSU, Blood, Hair) | Batch ID | Igenity Beef | SeekSire Parentage | Envigor | BreedSeek AddOn | Igenity BCHF | BVD PI | Coat Color (Homozygous) | Horned/Polled | Igenity Beef Defect Bundle |
| <i>Ex: 323</i> | <i>NE000001</i> | <i>F</i> | <i>AN/HF</i> | <i>TSU</i> | <i>Spring '21 Heifers</i> | ✓ | | ✓ | | | ✓ | | | ✓ |
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| REQUIRED | | | | | OPTIONAL | Igenity Beef | SeekSire Parentage | Envigor | BreedSeek AddOn | Igenity BCHF | BVD PI | Coat Color (Homozygous) | Horned/Polled | Igenity Beef Defect Bundle |
|----------------|-----------------|----------|--------------|--------------------------------|---------------------------|--------------|--------------------|---------|-----------------|--------------|--------|-------------------------|---------------|----------------------------|
| Animal ID | Sample Barcode | Sex | Breed | Sample Type (TSU, Blood, Hair) | Batch ID | | | | | | | | | |
| <i>Ex: 323</i> | <i>NE000001</i> | <i>F</i> | <i>AN/HF</i> | <i>TSU</i> | <i>Spring '21 Heifers</i> | ✓ | | ✓ | | | ✓ | | | ✓ |
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| REQUIRED | | | | | OPTIONAL | Igenity Beef | SeekSire Parentage | Envigor | BreedSeek AddOn | Igenity BCHF | BVD PI | Coat Color (Homozygous) | Horned/Polled | Igenity Beef Defect Bundle |
|----------------|-----------------|----------|--------------|--------------------------------|---------------------------|--------------|--------------------|---------|-----------------|--------------|--------|-------------------------|---------------|----------------------------|
| Animal ID | Sample Barcode | Sex | Breed | Sample Type (TSU, Blood, Hair) | Batch ID | | | | | | | | | |
| <i>Ex: 323</i> | <i>NE000001</i> | <i>F</i> | <i>AN/HF</i> | <i>TSU</i> | <i>Spring '21 Heifers</i> | ✓ | | ✓ | | | ✓ | | | ✓ |
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Operation name: _____

Please complete the information in the light green column marked “REQUIRED”. The following information is required:

- **Animal ID:** Refers to a visual ear tag or animal name identifying each animal on the operation. Ex: 923
- **Sample barcode:** A unique barcode that must be recorded for sample identification (e.g., the TSU barcode). Ex: NE100001
- **Sex:** Male (M) or Female (F)*
- **Breed:** Please refer to the breed key on the right side of page 5.*
- **Sample type:** Tissue, blood, or hair samples are accepted. Anything else should be denoted as other. An additional \$4.00 processing fee will be applied to all hair samples.

Optional information can be completed if desired:

- **Batch ID:** An optional field that allows the producer to identify pasture or age groups.*
- **Envigor:** Product to measure heterozygosity in crossbred cattle as an indication of hybrid vigor. Reported on a 1 (low) to 10 (high) scale.
- **BVD PI:** A test for Bovine Viral Diarrhea diagnostic testing.
- **Horned/Polled:** A test to determine if an animal carries a horned allele. Results do not reveal the presence or absence of scurs.
- **Coat color (homo black):** Coat color genes determine red or black coat. This is a test to determine if an animal carries a recessive red allele.
- **Any three standalone defect bundles:** Select any three defects from the list provided in the box to the right, and you will automatically qualify for this bundle (AM, CA, and DS not available for bundling).
- **Any five standalone defect bundles:** Select any five defects from the list provided in the box to the right, and you will automatically qualify for this bundle (AM, CA, and DS not available for bundling).
- **All defect bundles:** If all defects from the list provided in the box are selected, you will automatically qualify for this bundle (AM, CA, and DS not available for bundling).
- **Igenity Beef defect bundle:** An add-on test to determine carrier status for the following beef defects: NH, DD, PHA, TH.

Note: Parentage analysis is not included with any standalone purchase orders. If wishing to order parentage, please see the Igenity profile order form.

At-Risk Populations: All cattle breeds have genetic abnormalities, which can be rare, lethal, or in some instances, beneficial. In addition, genetic variants in purebred cattle can be inherited by composites that contain the at-risk breed. For instance, SimAngus cattle might carry Angus or Simmental genetic defects but will only carry one copy of the gene. Therefore, commercial producers who utilize crossbreeding can reduce the risk of cattle carrying two copies of the gene, affecting their calf crops, if they know the status of their cattle.

* Providing this information allows it to appear in Encompass E-Z.

Defects Available for Bundling

- (CHO) Chondrodysplasia — Bulldog calves
- (DD) Developmental Duplication
- (DL) Coat Color Diluter
- (DN) Dun Coat Color
- (HY) Hypotrichosis — Hairlessness
- (IE) Idiopathic Epilepsy — Shaker Calf
- (MA) Alpha-mannosidosis
- (MYO) Myostatin — Double Muscling
- (NH) Neuropathic Hydrocephalus — Water Head
- (OH) Oculocutaneous Hypopigmentation
- (OS) Osteopetrosis — Marble Bone
- (PHA) Pulmonary Hypoplasia with Anasarca Tenderness/Leptin
- (TH) Tibial Hemimelia

Defects Not Available for Bundling

- (AM) Arthrogyposis Multiplix — Curly Calf
- (CA) Contractural Arachnodactyly — Fawn Calf
- (DS) Digital Subluxation





Operation name: _____

If parentage verification is desired, the parentage verification details must be completed. Parent Verification is used to verify the parent(s) of an offspring through their DNA. Both Sample Barcode¹ and Animal ID² must be provided for all parents used for parentage verification. If a potential parent is registered, their Registration ID should also be provided.

If a potential parent has been tested through a breed association only, contact that association and request a release of the parentage markers in writing (include at least 2 identifiers submitted when the animal was tested). The written release should be sent to DNAhelp@neogen.com. If the release is not completed before order submission, the parent may not be included for parent verification, and an additional fee may apply to re-run parent verification.

If a sample is not on file, a new one must be submitted before analysis can be completed. If this is not done prior to test completion, an additional fee may apply to re-run parentage verification.

¹Sample Barcode is the number associated with the Tissue Sample Unit, hair card, or blood card for that animal.

²Animal ID a visual ear tag or animal name that identifies each animal on the operation. Ex: 923 and should match the ID that was submitted when the animal was tested.

| | | REQUIRED | |
|-------------|-----------------------|-------------|-----------------|
| Sire/Dam | Registration ID | Sire/Dam ID | Sample Barcode |
| <i>Sire</i> | <i>Ex: AAA1234567</i> | <i>323</i> | <i>NE000001</i> |
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| | | REQUIRED | |
|-------------|-----------------------|-------------|-----------------|
| Sire/Dam | Registration ID | Sire/Dam ID | Sample Barcode |
| <i>Sire</i> | <i>Ex: AAA1234567</i> | <i>323</i> | <i>NE000001</i> |
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| | | REQUIRED | |
|-------------|-----------------------|-------------|-----------------|
| Sire/Dam | Registration ID | Sire/Dam ID | Sample Barcode |
| <i>Sire</i> | <i>Ex: AAA1234567</i> | <i>323</i> | <i>NE000001</i> |
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| | | REQUIRED | |
|-------------|-----------------------|-------------|-----------------|
| Sire/Dam | Registration ID | Sire/Dam ID | Sample Barcode |
| <i>Sire</i> | <i>Ex: AAA1234567</i> | <i>323</i> | <i>NE000001</i> |
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| Sire/Dam | Registration ID | Sire/Dam ID | Sample Barcode |
| <i>Sire</i> | <i>Ex: AAA1234567</i> | <i>323</i> | <i>NE000001</i> |
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| | | REQUIRED | |
|-------------|-----------------------|-------------|-----------------|
| Sire/Dam | Registration ID | Sire/Dam ID | Sample Barcode |
| <i>Sire</i> | <i>Ex: AAA1234567</i> | <i>323</i> | <i>NE000001</i> |
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|-------------|-----------------------|-------------|-----------------|
| Sire/Dam | Registration ID | Sire/Dam ID | Sample Barcode |
| <i>Sire</i> | <i>Ex: AAA1234567</i> | <i>323</i> | <i>NE000001</i> |
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Neogen Terms and Conditions

These terms and conditions contained herein govern the order of testing services from Neogen (“Neogen”) and any customer (hereinafter referred to as “CLIENT”).

1. **Acknowledgment and Acceptance** Please read the following terms of the agreement carefully. By completing the order form, CLIENT hereby agrees to all of the terms and conditions set forth in the order form, including all warranty disclaimers and limitations of liability. Acceptance of services shall be deemed agreement to these terms and conditions. No document issued by CLIENT attempting to negate or otherwise modify the terms hereof, including any purchase order or request for proposal, shall be binding upon Neogen, and instead the foregoing terms and conditions shall exclusively govern the provision of services to CLIENT by Neogen.
2. **Provision of Services** Neogen provides testing services in accordance with the specifics of those tests selected on the order form. If, after delivery and inspection, CLIENT determines that the services do not conform to the tests CLIENT selected and are, therefore, unacceptable, please notify us immediately. Neogen will either re-perform the services, or issue a credit therefore, at our option.
3. **Warranty or Representation Disclaimers** Neogen disclaims and excludes all warranties or representation of any kind, either express, implied or statutory, with respect to its services, including the implied warranties of merchantability, fitness for a particular purpose, non-infringement of a patent, trademark, or other intellectual property rights, or warranties arising by course of dealings or custom of trade. CLIENT hereby expressly understands that the testing services provided hereunder have an inherent potential for error and that Neogen makes no representation that its testing services will be accurate, complete, or error-free.
4. **Limitation of Liability** Except as aforementioned, Neogen will not be liable for any causes of action or damages whether based on contract, tort, or any other legal theory, including any indirect, consequential (including lost profits and lost business opportunities), special, exemplary, or punitive damages, arising out of the performance of services even if advised of the possibility of such damages. Included within the scope of this limitation of liability are damages arising from the acts or negligence on the part of Neogen, its agents, or employees in performing its services. CLIENT agrees that Neogen’s cumulative liability for the services performed will not exceed the amount paid by CLIENT for those services. The remedies set forth herein constitute CLIENT exclusive remedies against Neogen for services performed.
5. **Customer Representations and Warranties** CLIENT hereby represents and warrants that (1) any testing samples will be or are properly taken and collected, (2) that any such samples will be or are properly recorded or labeled, and (3) that any such samples will be or are handled, shipped and packaged appropriately. CLIENT is responsible for taking all precautions CLIENT believes necessary or advisable to protect any sample sent to Neogen against damage, loss, or hazard.
6. **Indemnity**
 - (a) **Neogen Indemnification.** Neogen shall indemnify, defend, and hold harmless CLIENT and its members, shareholders, agents, directors, officers, and employees (collectively, the “CLIENT Indemnitees”) from and against all liability, damage, loss, claims, demands, actions, and expenses of any nature whatsoever including, but not limited to, reasonable attorney’s fees and expenses, which arise out of or are connected with (i) any grossly negligent act or omission, willful misconduct, or violation of law by Neogen, or its employees which relates in any manner to the Services or (ii) any material breach of any obligations of Neogen as set forth in these Terms and Conditions.
 - (b) **CLIENT Indemnification.** CLIENT, on behalf of itself and its employees, shall indemnify, defend, and hold harmless Neogen and its shareholders, directors, officers, and employees from and against all liability, damage, loss, claims, demands, actions, and expenses which arise out of or are connected with (i) any negligent act or omission, willful misconduct, or violation of law, or (ii) any breach of any obligation of CLIENT as set forth in this document.
7. **Limits of Testing Services** CLIENT agrees that the testing services provided by Neogen are not intended for use in human or clinical diagnostics but are for informational purposes only.
8. **Entire Agreement** These terms and conditions form an appendix to any primary agreement (AGREEMENT) between Neogen and CLIENT applicable to Neogen’s services. These terms and conditions may not be amended or supplemented by CLIENT without prior written consent from Neogen.
9. **Severability** If any of the provisions of these terms and conditions shall be held by a court of competent jurisdiction to be contrary to law, the remaining provisions for this Agreement shall remain in full force and effect to the fullest extent of the law.
10. **Successors and Assigns** These terms and conditions shall be binding upon and shall inure to the benefit of the parties hereto and their respective heirs, legatees, devisees, personal representatives, successors, and assigns.
11. **Survival** The provisions of Sections 5 and 6 of these terms and conditions shall survive the completion and payment of the services provided hereunder.
12. **Governing Law** The terms and conditions hereunder shall be governed by the laws of the State of Michigan, without giving effect to its principles of conflicts of law, and the parties hereby irrevocably commit to the jurisdiction and venue of the courts of Michigan to adjudicate any dispute arising hereunder or relating hereto.
13. **Sample Storage** By submitting this form the CLIENT understands that the physical samples submitted will be stored at no charge for 12 months. Following that time, unless otherwise notified by CLIENT, those samples are removed from the premises.

