

## CATTLE GENETIC MARKER TEST REPORT

|  |   |
|--|---|
| <i>Provided Information:</i>   | <i>Case:</i> <b>NC85776</b>   |
| <i>Name:</i> <b>CHANDLER</b>   | <i>Date Received:</i> 08-Aug-2024   |
| <i>Registration:</i>   | <i>Report Issue Date:</i> 12-Aug-2024   |
|  | <i>Report ID:</i> 9625-5685-0928-3195   |
|  | Verify report at <a href="http://vgl.ucdavis.edu/verify">vgl.ucdavis.edu/verify</a> |
| <i>DOB:</i> <b>07/30/2024</b> <i>Sex:</i> <b>Male</b> <i>Breed:</i> <b>Scottish Highland</b> |   |

### RESULTS AND INTERPRETATION

Permanent Record.

### GENETIC MARKERS

| <u>LOCUS</u>   | <u>TYPE</u> | <u>LOCUS</u>   | <u>TYPE</u> | <u>LOCUS</u>   | <u>TYPE</u> |
|----------------|-------------|----------------|-------------|----------------|-------------|
| <i>BM1818</i>  | 262         | <i>BM1824</i>  | 180         | <i>BM2113</i>  | 133/139     |
| <i>BRR</i>     | 258/262     | <i>CYP21</i>   | 190         | <i>ETH003</i>  | 117         |
| <i>ETH10</i>   | 221         | <i>ETH225</i>  | 140/148     | <i>INRA23</i>  | 206/208     |
| <i>RM006</i>   | 110/116     | <i>RM067</i>   | 94/102      | <i>SPS115</i>  | 248/254     |
| <i>TGLA122</i> | 141/143     | <i>TGLA126</i> | 115/123     | <i>TGLA227</i> | 89/91       |

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| <p><i>Client/Owner/Agent Information:</i><br/>         MIKE ISAAC<br/>         17020 HEBRON RD<br/>         HARVARD, IL 60033-9363</p> | <p><b>Case:</b> <b>NC85776</b><br/> <i>Date Received:</i> 08-Aug-2024<br/> <i>Report Issue Date:</i> 12-Aug-2024<br/> <i>Report ID:</i> 9625-5685-0928-3195</p> <p style="text-align: right;">Verify report at <a href="http://vgl.ucdavis.edu/verify">vgl.ucdavis.edu/verify</a></p> |
| <p><i>Name:</i> <b>CHANDLER</b></p>  |   |

### Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

The Veterinary Genetics Laboratory is an institutional member of ISAG. DNA types are reported according to standardized nomenclature for markers in the ISAG panel.

For more detailed information on Genetic Marker test results, please visit our website at: [vgl.ucdavis.edu/services/parentage](http://vgl.ucdavis.edu/services/parentage)

For terms and conditions of testing, please see [vgl.ucdavis.edu/about/terms-and-conditions](http://vgl.ucdavis.edu/about/terms-and-conditions)

Results are determined using PCR-based methods. The results relate only to the sample tested as identified by the submitter (for example, identity and/or breed).

**Report authorized by Dr. Rebecca Bellone, VGL Director**

Veterinary Genetics Laboratory · University of California Davis · One Shields Ave · Davis, CA 95616  
[vgl.ucdavis.edu](http://vgl.ucdavis.edu) · (530) 752-2211



## CATTLE COAT COLOR TEST REPORT

|  |                                       |
|--|---------------------------------------|
| <i>Provided Information:</i>   | <i>Case:</i> <b>NC85776</b>           |
| <i>Name:</i> <b>CHANDLER</b>   | <i>Date Received:</i> 08-Aug-2024     |
| <i>Registration:</i>   | <i>Report Issue Date:</i> 12-Aug-2024 |
|  | <i>Report ID:</i> 9690-8946-4906-2035 |
| Verify report at <a href="http://vgl.ucdavis.edu/verify">vgl.ucdavis.edu/verify</a>          |                                       |
| <i>DOB:</i> <b>07/30/2024</b> <i>Sex:</i> <b>Male</b> <i>Breed:</i> <b>Scottish Highland</b> |                                       |

### RESULT

### INTERPRETATION

|                         |                                    |
|-------------------------|------------------------------------|
| <b>DILUTION</b>         | <b>Dh/N</b>                        |
| <b>MC1R (EXTENSION)</b> | <b>E<sup>D</sup>/E<sup>+</sup></b> |

One copy of the PMEL17-delTTC dilution variant. Coat color is gray or pale-red.

Dominant black, carrier of wild type.

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| <p><i>Name:</i> <b>CHANDLER</b></p>  |   |

### Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Cattle Coat Color test results, please visit our website at:  
[vgl.ucdavis.edu/test/mc1r-cattle](http://vgl.ucdavis.edu/test/mc1r-cattle)  
[vgl.ucdavis.edu/test/cattle-dilution](http://vgl.ucdavis.edu/test/cattle-dilution)

For terms and conditions of testing, please see [vgl.ucdavis.edu/about/terms-and-conditions](http://vgl.ucdavis.edu/about/terms-and-conditions)

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## DEXTER GENETIC TEST REPORT

|  |  |
|--|--|
| <b>Provided Information:</b><br>Name: <b>CHANDLER</b><br>Registration: | <b>Case: NC85776</b><br>Date Received: 08-Aug-2024<br>Report Issue Date: 12-Aug-2024<br>Report ID: 3944-8424-2044-8139<br><p style="text-align: center; font-size: small;">Verify report at <a href="http://vgl.ucdavis.edu/verify">vgl.ucdavis.edu/verify</a></p> |
| DOB: 07/30/2024 Sex: Male Breed: Scottish Highland                     |  |

| RESULT  | INTERPRETATION   |
|---|--|
| <b>MC1R (EXTENSION)</b>                         | Animal has one copy of dominant black and one copy of wild type (red). |
| <b>E<sup>D</sup>/E<sup>+</sup></b>              |  |
| <b>Dun (TYRP1)</b>                              |  |
| Not Requested                                   |  |
| <b>Pulmonary Hypoplasia with Anasarca (PHA)</b> |  |
| Not Requested                                   |  |
| <b>Polled vs. Horned</b>                        | HORNED. No copies of either Polled molecular marker are present.       |
| <b>H/H</b>                                      |  |
| <b>Bulldog Dwarfism (BD1)</b>                   | Normal, does not have the Dexter BD1 Bulldog mutation.                 |
| <b>N/N</b>                                      |  |
| <b>Bulldog Dwarfism (BD2)</b>                   |  |
| Not Requested                                   |  |

## DEXTER GENETIC TEST REPORT

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|--|---|
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| <p><i>Name:</i> <b>CHANDLER</b></p>  |   |

### Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Dexter Genetic test results, please visit our website at: [vgl.ucdavis.edu/services/cattle/dexter-tests](http://vgl.ucdavis.edu/services/cattle/dexter-tests)

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