

ANGUS ImmuneDEX

RESEARCH BREEDING VALUES

JUNE 2025

BACKGROUND

Angus Australia has partnered with the Commonwealth Scientific and Industrial Research Organisation (CSIRO) to undertake research into the genetics of traits related to immune competence and resilience. An animal's resilience is defined as their capacity to cope with environmental challenges, especially those leading to disease, and to subsequently return to being productive.

This has involved collecting and analysing immune competence phenotypes on ~4000 Angus steers and heifers at weaning, primarily from the Angus Sire Benchmarking Program (ASBP). This information, combined with genotypes (i.e. DNA profiles), was analysed to determine genetic parameter estimates (heritabilities and correlations) and to produce Research Breeding Values for immune competence.

More specifically, immune competence was assessed by combining measures of antibody-mediated immune responses (Ab_IR), through a blood test, and cell-mediated immune responses (Cell_IR), through a skin reaction test. Pathogens, like the bacteria and viruses associated with Bovine Respiratory Disease (BRD), differ in the way they infect the host animal. For instance, many bacteria live outside host cells while viruses replicate within host cells. The immune system tailors how it responds to different pathogens with extra-cellular pathogens most effectively controlled by Ab_IR and intracellular pathogens most effectively controlled by Cell_IR.

Individuals identified as having a balanced ability to mount both a Cell_IR and Ab_IR response are expected to exhibit broad-based disease resistance against a wide range of pathogens. For this reason, an index value (ImmuneDEX) has been developed which combines research breeding values for the Cell_IR and Ab_IR traits into a single value. The process by which the ImmuneDEX value is generated ensures appropriate weightings are given to component traits so that high ImmuneDEX animals have a balanced response, and genetic gains in both traits are driven at similar rates.

The ImmuneDEX value is moderately heritable and negatively correlated with some of the production traits (e.g. carcase weight and eye muscle area), while being favourably correlated with the stress and temperament related traits.

Additionally, on a subset 1149 steers from this study, disease incidence during the feedlot feeding period was examined. Prior vaccination and minimal mixing with unfamiliar animals at feedlot entry provided a low disease risk environment in the study. Nonetheless, animals with superior immune competence phenotypes had significantly fewer health-related mortalities, and incurred substantially lower health related costs during feedlot finishing.

UNDERSTANDING THE ImmuneDEX RBV

ImmuneDEX Research Breeding Values (RBVs) are provided in this publication for sires with (i) at least 50% accuracy for their ImmuneDEX RBV, and (ii) one or more progeny born in the last two years.

The ImmuneDEX RBV provides an estimate of genetic differences between animals for overall immune competence, a key component of resilience.

Higher ImmuneDEX RBVs indicate an animal is expected to produce progeny with an enhanced ability to resist disease challenges and therefore have lower disease incidence. Lower ImmuneDEX RBVs indicate an animal is expected to produce progeny with a higher incidence of disease and associated production losses.

USING THE RESEARCH BREEDING VALUES IN SELECTION

The ImmuneDEX RBVs in this publication will enable Angus breeders to place selection emphasis on immune competence and resilience traits, while continuing selection for other traits of importance within their breeding objective.

It is important to note that the RBVs for AB_IR and Cell_IR that underpin the ImmuneDex values are subject to greater potential change than EBVs routinely reported as part of the TransTasman Angus Cattle Evaluation (TACE), and ImmuneDEX RBVs should be used with caution in animal selection decisions.

ImmuneDEX RBVs, and the component Research Breeding Values for AB_IR and Cell_IR, may change as improvements are made to the analytical models that are used, and as additional performance information is collected and methodologies for assessing resilience traits continue to evolve.

ACKNOWLEDGEMENTS

Angus Australia gratefully acknowledges the ASBP co-operator herd owners for allowing access to animals for testing. Contributions of the Commonwealth Scientific and Industrial Research Organisation (CSIRO) are also acknowledged, and in particular, Dr Brad Hine, Dr Aaron Ingham, Dominic Niemeyer, Amy Bell, Dr Sonja Dominik, Dr Toni Reverter-Gomez, Dr Laercio Porto Neto and Dr Ian Colditz. Assistance provided by Bob Dent in the initial methodology development work is also gratefully acknowledged.

Meat and Livestock Australia (MLA) and the Australian Lot Feeders Association (ALFA) are acknowledged for co-funding projects related to the development and validation of the immune competence phenotyping methodology. MLA is further acknowledged for co-funding the Angus Sire Benchmarking Program (ASBP)

DISCLAIMER

The ImmuneDEX RBVs contained within this publication were calculated from data supplied to Angus Australia by members and/or third parties. Whilst every effort is made to ensure the accuracy of the data, Angus Australia, its officers and employees, assume no responsibility for the accuracy of the RBVs, nor the outcome (including consequential loss) of an action taken based on the information presented in this publication.

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|---------------------------|-----------------------------|------------------|-------------|-----------|-----------|-------------|------------|-------------|-----------|-----------|------------|-------------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|--------------|-----------|--------------|--------------|--------------|-----------|---------|
| Sire | | | Calv | -Ease | Bi | rth | | Frowth | <u> </u> | Mat | ernal | F | ert | | | Card | ase | | | Feed | Temp | s | tructura | <u> </u> | Selection | n Index |
| Dam | Reg. | ImmuneDEX IMD | Dir | Dtrs | GL | BW | 200 | 400 | 600 | MCW | Milk | ss | DC | cw | EMA | Rib | P8 | RBY | IMF | NFI-F | Doc | Claw | Angle | Leg | \$A | \$A-L |
| NXOL172 | AJC L172 ^{sv} | +46 | +7.2 | +8.0 | -6.0 | +3.0 | +58 | +99 | +135 | +123 | +15 | +2.1 | -5.1 | +71 | +6.2 | -0.5 | +0.5 | +0.3 | +1.0 | -0.98 | +22 | +1.44 | +1.30 | +1.18 | \$213 | \$390 |
| NXOF43 NXOJ432 | APR | 69% 51 | 76% 13 | 62% 8 | 94% 27 | 96% 29 | 94% 24 | 94% 34 | 94% 21 | 88% 20 | 90% 67 | 84% 51 | 56% 41 | 91% 42 | 89% 53 | 84% 61 | 90% 37 | 82% 53 | 91% 82 | 83% 1 | 85% 47 | 85% 99 | 85% 98 | 81% 89 | 43 | 23 |
| DGJG10 | ALLOURA GET CRACKING G10 SV | +53 | +7.9 | +7.4 | -2.9 | +2.5 | +44 | +74 | +87 | +86 | +12 | -0.4 | -8.1 | +46 | +14.3 | +1.4 | +0.5 | +0.8 | +5.8 | +0.46 | +6 | +0.48 | +0.98 | +0.94 | \$267 | \$421 |
| VTMB1 DGJZ15 | HBR | 69% 39 | 95% 9 | 86% 12 | 99% 75 | 99% 21 | 98% 84 | 98% 93 | 98% 97 | 98% 76 | 98% 86 | 97% 99 | 77% 3 | 96% 95 | 94% 2 | 95% 21 | 95% 37 | 91% 24 | 93% 2 | 89% 74 | 97% 95 | 96% 3 | 96% 54 | 94% 25 | 4 | 8 |
| DGJL94 | ALLOURA LOCK STOCK & | +44 | +6.1 | +1.5 | | +2.8 | +57 | +94 | +123 | | +11 | +1.1 | -4.2 | +65 | +0.9 | +2.2 | -1.3 | +0.2 | +1.8 | | +24 | +0.82 | +0.88 | +0.92 | \$186 | \$345 |
| USA15832750 | HBR | 64% | 80% | | 93% | 96% | 94% | | | 92% | 88% | 88% | 54% | 89% | 84% | 81% | 86% | 77% | 87% | | 93% | 84% | 82% | 77% | · | · |
| DGJH24 | | 55 | 20 | 70 | 55 | 26 | 26 | 49 | 45 | 23 | 91 | 84 | 63 | 62 | 96 | 11 | 68 | 59 | 64 | 5 | 37 | 46 | 29 | 21 | 74 | 59 |
| DGJQ30 | ALLOURA QUINELLA Q30 SV | +13 | +2.1 | +1.5 | | | +52 | +97 | +117 | | +14 | +3.3 | -7.3 | +65 | +14.2 | +0.1 | +0.5 | +0.8 | +7.3 | | +15 | +0.92 | +1.02 | +1.16 | \$281 | \$458 |
| WWEL3 DGJK117 | HBR | 51% 98 | 74% 56 | 67% 70 | 94% 98 | 93% 28 | 91% 46 | 91% 40 | 92% 57 | 87% 24 | 80% 72 | 83% 15 | 61% 8 | 89% 62 | 88% 2 | 87% 47 | 88% 37 | 79% 24 | 90% 1 | 82% 71 | 89% 74 | 85% 67 | 86% 63 | 81% 86 | 2 | 2 |
| NAQA241 | ARDROSSAN EQUATOR A241 PV | +49 | -1.3 | +3.1 | -4.4 | +4.1 | +50 | +91 | +121 | | +20 | +3.2 | -8.8 | +86 | +8.1 | -2.0 | -0.3 | +1.2 | +1.6 | +0.63 | +25 | +0.46 | +0.86 | +1.00 | \$231 | \$389 |
| USA2928 | HBR | 80% | 99% | | 99% | | 99% | 99% | | | 99% | 99% | 95% | 99% | 98% | 98% | 98% | 98% | 98% | 96% | 99% | 99% | 99% | 99% | 4 | **** |
| NAQW38 | | 46 | 80 | 54 | 52 | 54 | 61 | 57 | 50 | 41 | 29 | 17 | 2 | 11 | 31 | 88 | 51 | 10 | 69 | 86 | 33 | 2 | 25 | 43 | 24 | 23 |
| NAQN329 | ARDROSSAN HOLBROOK N329 | +22 | -7.4 | | -3.0 | +2.7 | +47 | +86 | +111 | +77 | +25 | +2.5 | -7.9 | +70 | +5.5 | +2.4 | +2.1 | -0.9 | +3.8 | +1.08 | +14 | +0.82 | +1.02 | +0.92 | \$205 | \$322 |
| NAQH318 NAQK30 | HBR | 54% 89 | 72% 97 | 67% 77 | 96% 73 | 95% 24 | 96% 71 | 95% 72 | 95% 71 | 90% 85 | 92% 7 | 86% 36 | 59% 4 | 91% 46 | 89% 62 | 89% 9 | 90% 15 | 82% 96 | 91% 19 | 83% 99 | 91% 79 | 81% 46 | 87% 63 | 83% 21 | 54 | 75 |
| NAQH255 | ARDROSSAN HONOUR H255 PV | +27 | -1.8 | -0.6 | -2.6 | +4.6 | +43 | +75 | +97 | +93 | +13 | +2.2 | -6.0 | +60 | +5.7 | +0.9 | -1.5 | +0.6 | +2.4 | +0.98 | +10 | +0.44 | +1.02 | +1.24 | \$168 | \$293 |
| NORE11 | HBR | 81% | 96% | | | | 98% | 00,0 | | | 98% | 98% | 85% | 97% | 96% | 96% | 96% | 95% | 96% | 92% | 98% | 97% | 97% | 96% | 00 | |
| NAQD17 | | 83 | 82 | 84 | 79 | 65 | 85 | 92 | 91 | 66 | 83 | 47 | 23 | 74 | 59 | 30 | 71 | 35 | 49 | 98 | 89 | 2 | 63 | 96 | 86 | 88 |
| QQFH147 VTME343 | ASCOT HALLMARK H147 PV | +47 72% | -3.7 96% | | | +7.1 99% | +61 98% | +110 98% | | | +14 98% | +3.8 98% | -6.0 | +79 | -1.6 95% | +0.6 96% | -0.2 96% | -0.9 94% | +3.3 95% | +0.35 90% | +18 | +0.48 95% | +0.88 95% | +1.02 93% | \$196 | \$365 |
| NMMF123 | HBR | 50 | 89 | 71 | 42 | 96 | 15 | 11 | 5 | 96% | 74 | 8 | 80% 23 | 96% 22 | 95% | 36 | 49 | 94% | 28 | 63 | 97% 61 | 3 | 29 | 49 | 63 | 43 |
| HIOE7 | AYRVALE BARTEL E7 PV | +41 | +8.7 | +9.1 | -4.4 | +1.8 | +49 | +87 | +113 | +75 | +26 | +2.5 | -9.4 | +65 | +8.0 | -0.4 | +0.6 | +1.2 | +3.5 | +0.28 | +5 | +1.04 | +1.02 | +1.14 | \$292 | \$450 |
| VTMB219 | HBR | 85% | 99% | 97% | | | 99% | 00,0 | 99% | | 99% | 99% | 94% | 98% | 98% | 98% | 98% | 98% | 98% | 96% | 99% | 99% | 99% | 99% | | |
| BVVB32 | | 60 | 6 | 4 | 52 | 12 | 62 | 71 | 68 | 87 | 6 | 36 | 1 | 63 | 32 | 59 | 35 | 10 | 25 | 56 | 96 | 85 | 63 | 82 | 1 | 2 |
| ECMM114 | BANNABY BERKLEY M114 SV | +14 52% | +3.2 79% | | | +4.0 | +55 | +94 | +137 | | +5 | +4.0 | -8.2 | +65 | +2.8 | -1.0 | -3.6 | +0.3 | +2.6 | | +16 | +0.80 | +0.74 | +1.12 | \$184 | \$386 |
| VTMB1 BBAZ107 | HBR | 97 | 46 | 71% 57 | 95% 2 | 94% 52 | 92% 35 | 92% 48 | 93% 18 | 88% 2 | 85% 99 | 88% 6 | 66% 3 | 87% 60 | 86% 88 | 86% 72 | 87% 93 | 80% 53 | 88% 44 | 79% 31 | 85% 70 | 87% 41 | 87% 8 | 84% 78 | 75 | 25 |
| NUIF32 | BONNY BROOKE FALCO F32 SV | +49 | -4.2 | | | +6.0 | +53 | +83 | +108 | | +18 | -0.5 | -2.1 | +66 | -2.0 | +2.2 | +1.3 | -1.1 | +2.0 | | +20 | +1.00 | +0.92 | +1.08 | \$127 | \$220 |
| NGMC196 | HBR | 53% | 67% | | | | 91% | | 91% | | 78% | 77% | 52% | 84% | 82% | 82% | 83% | 73% | 82% | 73% | 81% | 79% | 79% | 74% | * | |
| NUID96 | | 46 | 91 | 99 | 96 | 88 | 42 | 79 | 76 | 69 | 44 | 99 | 95 | 58 | 99 | 11 | 25 | 98 | 59 | 5 | 54 | 80 | 39 | 68 | 98 | 99 |
| HCAG013 | BOONAROO GRAVITY G013 PV | +87 | +4.7 | | | +3.7 | +51 | +87 | +114 | +100 | +22 | +3.9 | -5.4 | +57 | +5.6 | -2.8 | -3.5 | +1.3 | +2.9 | -0.77 | +22 | +0.50 | +0.92 | +1.06 | \$213 | \$362 |
| VTMA217 VTMZ618 | HBR | 70% 2 | 91% 32 | 84% 45 | 98% 36 | 98% 45 | 97% 54 | 97% 69 | 97% 64 | 95% 54 | 96% 16 | 97% 7 | 73% 35 | 93% 80 | 92% 60 | 92% 95 | 93% 92 | 88% 8 | 91% 37 | 86% 1 | 95% 47 | 94% 3 | 94% 39 | 91% 62 | 43 | 45 |
| NGME124 | BOOROOMOOKA INSPIRED E124 | +16 | -5.4 | | | | +45 | +82 | | | +15 | +0.9 | -8.4 | +83 | +3.5 | -0.3 | +3.6 | -0.3 | +2.3 | • | +19 | +0.80 | +0.80 | +0.80 | \$190 | \$329 |
| NAQA241 | HBR | 73% | 96% | | | | 98% | | | | 98% | 98% | | 97% | 96% | 96% | 96% | 95% | 96% | 90% | 98% | 97% | 97% | 96% | | • |
| NGMB325 | | 95 | 94 | 77 | 27 | 45 | 78 | 81 | 78 | 48 | 70 | 88 | 3 | 15 | 83 | 57 | 6 | 83 | 51 | 97 | 60 | 41 | 15 | 5 | 69 | 71 |
| | Breed Average EBVs | +48 | +2.2 | +3.0 | -4.5 | +3.9 | +52 | +93 | +120 | +102 | +17 | +2.2 | -4.8 | +69 | +6.5 | +0.0 | -0.2 | +0.4 | +2.5 | +0.23 | +21 | +0.84 | +0.96 | +1.02 | +205 | +351 |

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| Sire | | ImmuneDEX | Calv | -Ease | Bi | rth | | rowth | <u> </u> | Mat | ernal | F | ert | | | Card | case | | | Feed | Temp | | tructura | <u> </u> | Selection | on Index |
| Dam | Reg. | IMD | Dir | Dtrs | GL | BW | 200 | 400 | 600 | MCW | Milk | SS | DC | cw | EMA | Rib | P8 | RBY | IMF | NFI-F | Doc | Claw | Angle | Leg | \$A | \$A-L |
| NGMN418 | BOOROOMOOKA JACKPOT N418 | +24 | +2.1 | | -8.8 | +5.5 | +63 | +112 | +138 | +135 | +4 | +3.4 | -7.7 | +81 | +8.5 | -0.7 | -0.3 | +0.8 | +2.7 | +0.29 | +28 | +1.30 | +1.08 | +1.06 | \$271 | \$466 |
| WWEL3 NGML471 | HBR | 50% 87 | 71% 56 | 66% 15 | 95% 5 | 97% 82 | 96% 9 | 96% 9 | 96% 17 | 94% 11 | 89% 99 | 94% 14 | 63% 5 | 89% 18 | 87% 27 | 87% 66 | 88% 51 | 81% 24 | 88% 42 | 80% 57 | 95% 23 | 93% 99 | 93% 76 | 87% 62 | 3 | 1 |
| NGMP96 | BOOROOMOOKA PARAGON P96 | +15 | -4.3 | +2.0 | -7.8 | +3.7 | +63 | +119 | +161 | +124 | +29 | +3.6 | -8.3 | +110 | +13.4 | -2.8 | -1.4 | +1.5 | +2.4 | +0.88 | +33 | +0.84 | +1.00 | +1.10 | \$291 | \$465 |
| WWEL3 NGMM566 | HBR | 52% 96 | 82% 91 | 75% 65 | 99% 10 | 98% 45 | 98% 9 | 98% 3 | 98% 2 | 96% 19 | 93% 2 | 97% 11 | 66% 3 | 94% 1 | 92% 3 | 91% 95 | 92% 70 | 84% 5 | 93% 49 | 87% 96 | 98% 13 | 97% 50 | 97% 59 | 94% 73 | 1 | 1 |
| BOWK2 | BOWMAN AUSTRALIA K2 PV | +43 | +7.6 | | -6.5 | +3.5 | +49 | +98 | +123 | | +22 | +5.0 | -7.6 | +69 | +8.2 | -0.1 | -1.4 | +0.9 | +1.5 | | +11 | +0.86 | +1.02 | +0.94 | \$228 | \$390 |
| VTME343 NAQZ31 | HBR | 74% 57 | 80% 10 | 76% 64 | 94% 21 | 91% 40 | 91% 65 | 91% 37 | 91% 45 | 88% 62 | 86% 19 | 85% 2 | | 89% 51 | 88% 30 | 88% 52 | 88% 70 | 83% 20 | 90% 72 | 83% 2 | 88% 86 | 84% 54 | 85% 63 | 81% 25 | 26 | 22 |
| SRKK306 | BOWMONT KING K306 PV | +31 | -1.5 | -9.1 | -4.6 | +4.5 | +49 | +78 | +103 | +86 | +2 | -0.3 | -4.2 | +65 | +14.7 | -0.4 | -1.8 | +1.5 | +4.8 | +0.51 | +25 | +0.54 | +0.90 | +0.70 | \$230 | \$341 |
| NJWG279 TFAD58 | HBR | 69% 77 | 75% 81 | 73% 99 | 97% 48 | 98% 63 | 97% 63 | 97% 88 | 97% 84 | 95% 75 | 95% 99 | 96% 99 | 70% 63 | 94% 63 | 93% 2 | 93% 59 | 93% 76 | 91% 5 | 94% 7 | 87% 78 | 96% 32 | 94% 5 | 94% 34 | 91% 1 | 25 | 62 |
| AMQL39 | BROOKLANA INFINITY L39 SV | +68 | -9.6 | -5.1 | -1.4 | +5.6 | +49 | +88 | +111 | +127 | +9 | +3.5 | -4.4 | +39 | -3.9 | +1.0 | +2.5 | -0.6 | +1.5 | +0.01 | +28 | +0.88 | +0.94 | +0.78 | \$107 | \$234 |
| NZE04379 AMQH11 | HBR | 74% 17 | 77% 98 | 70% 97 | 94% 90 | 93% 84 | 91% 65 | 91% 66 | 91% 71 | 87% 16 | 81% 96 | 82% 12 | 65% 58 | 90% 98 | 89% 99 | 84% 28 | 89% 12 | 82% 91 | 91% 72 | 85% 27 | 87% 24 | 85% 59 | 85% 44 | 81% 4 | 99 | 98 |
| QBUG49 | BURENDA GEIGER COUNTER | +11 | +8.4 | +8.8 | -6.6 | +2.9 | +41 | +81 | +106 | +91 | +17 | +2.0 | -8.9 | +63 | +3.5 | +0.2 | -1.5 | +0.4 | +3.3 | +0.14 | +26 | +0.98 | +1.20 | +0.94 | \$220 | \$381 |
| VTMB1 QBUE5 | HBR | 69% 99 | 86% 7 | 76% 5 | 97% 20 | 97% 28 | 96% 90 | 96% 84 | 95% 80 | 94% 69 | 93% 49 | 94% 55 | 69% 2 | 92% 68 | 91% 83 | 91% 45 | 91% 71 | 86% 47 | 90% 28 | 85% 40 | 95% 30 | 85% 77 | 85% 92 | 82% 25 | 36 | 29 |
| WLHD19 | CHERYLTON STEWIE D19 PV | +26 | +3.4 | +2.4 | -4.7 | +3.1 | +45 | +90 | +111 | +96 | +20 | +2.2 | -7.2 | +57 | +4.7 | -1.6 | +1.2 | -0.2 | +4.1 | +0.38 | +15 | +1.02 | +1.00 | +1.04 | \$221 | \$375 |
| USA13058662 USA14311946 | HBR | 73% 84 | 94% 45 | 89% 61 | 98% 47 | 98% 31 | 98% 78 | 98% 61 | 98% 71 | 97% 60 | 98% 30 | 98% 47 | 77% 8 | 96% 80 | 95% 71 | 95% 83 | 95% 26 | 93% 79 | 95% 15 | 89% 66 | 96% 74 | 95% 83 | 95% 59 | 92% 55 | 34 | 34 |
| GTNP9 | CHILTERN PARK PICASSO P9 PV | +37 | +8.5 | +8.8 | -3.5 | +1.1 | +53 | +100 | +127 | +85 | +24 | +3.3 | -8.3 | +89 | +6.1 | +0.0 | +1.3 | -0.7 | +4.1 | +0.68 | +30 | +0.64 | +0.74 | +0.82 | \$266 | \$434 |
| HKFJ5 GTNK26 | HBR | 53% 67 | 83% 6 | 69% 5 | 99% 66 | 98% 6 | 97% 44 | 97% 32 | 97% 36 | 92% 76 | 88% 8 | 95% 15 | 63% 3 | 90% 8 | 87% 54 | 88% 50 | 88% 25 | 81% 93 | 89% 15 | 78% 89 | 96% 18 | 94% 14 | 94% 8 | 90% 6 | 4 | 4 |
| QMUM13 | CLUNES CROSSING DUSTY M13 | +35 | +1.4 | +5.4 | -6.7 | +5.3 | +63 | +100 | +117 | +57 | +17 | +0.9 | -7.3 | +70 | +12.6 | -2.5 | -3.3 | +1.0 | +2.1 | +0.27 | +10 | +0.84 | +0.86 | +1.00 | \$297 | \$424 |
| USA16295688 QMUG1 | HBR | 50% 70 | 85% 62 | 81% 29 | 99% 19 | 99% 79 | 98% 9 | 98% 31 | 98% 58 | 98% 97 | 98% 53 | 98% 88 | 78% 8 | 96% 47 | 95% 5 | 95% 93 | 95% 91 | 93% 16 | 95% 56 | 88% 54 | 98% 89 | 98% 50 | 98% 25 | 97% 43 | 1 | 7 |
| NBHL348 | CLUNIE RANGE LEGEND L348 PV | +18 | -6.0 | | -7.8 | +5.8 | +57 | +102 | | | +2 | +2.8 | -6.0 | +61 | -0.2 | +3.8 | +0.8 | -0.8 | +2.6 | | +24 | +0.50 | +0.80 | +1.20 | \$159 | \$333 |
| NZE14647008839 AHWJ81 | HBR | 68% 94 | 95% 95 | 87% 40 | 99% 10 | 99% 86 | 98% 28 | 98% 25 | 98% 44 | 98% 3 | 98% 99 | 98% 27 | 80% 23 | 96% 72 | 94% 98 | 95% 3 | 95% 32 | 93% 95 | 94% 44 | 87% 39 | 97% 39 | 97% 3 | 97% 15 | 96% 92 | 90 | 68 |
| WDCH249 | COONAMBLE HECTOR H249 sv | +33 | +1.6 | +1.2 | -8.4 | +4.6 | +45 | +80 | +99 | +94 | +5 | +1.3 | -4.6 | +45 | +9.2 | +4.3 | +4.5 | +0.6 | +0.2 | -0.44 | +40 | +0.40 | +0.48 | +0.80 | \$182 | \$316 |
| USA14885809 WDCE9 | HBR | 70% 74 | 96% 61 | 88% 72 | 99% 6 | 99% 65 | 98% 80 | 98% 86 | 98% 88 | 98% 64 | 98% 99 | 98% 79 | 79% 54 | 96% 96 | 95% 21 | 96% 2 | 96% 3 | 94% 35 | 95% 94 | 89% 4 | 98% 4 | 96% 1 | 96% 1 | 94% 5 | 76 | 78 |
| USA16198796 | EF COMPLEMENT 8088 PV | +15 | +4.5 | | | +3.0 | +53 | +98 | +130 | | +21 | +1.4 | -7.4 | +76 | +7.6 | +1.2 | +0.6 | +0.8 | +1.6 | +0.61 | +20 | +0.92 | +1.24 | +1.16 | \$254 | \$419 |
| USA14686137 USA15452880 | HBR | 85% 96 | 99% | | | | 99% 46 | | | 99% | 99% | 99% 76 | | 98% | 98% 36 | 98% | 98% | 97% 24 | 97% 69 | | 99% 53 | 99% | 99% | 99% | 8 | 8 |
| WWEL3 | ESSLEMONT LOTTO L3 PV | +8 | -5.5 | | -5.4 | +4.6 | +60 | +110 | | +134 | +15 | +3.6 | | +89 | +14.7 | | +0.8 | +1.5 | +3.8 | | +15 | +1.12 | +1.00 | +1.14 | \$297 | \$478 |
| HIOG18 WWEJ8 | HBR | 77% 99 | 87% 94 | | | | 99% 16 | | | 98% | 98% 68 | 98% 11 | | | 96% | 96% 61 | 97% 32 | 95% 5 | 96% 19 | 92% 65 | 98% 76 | 98% | 98% | 98% | 1 | 1 |
| | Breed Average EBVs | +48 | +2.2 | | -4.5 | +3.9 | +52 | +93 | +120 | | | +2.2 | • | +69 | +6.5 | +0.0 | -0.2 | +0.4 | +2.5 | | +21 | +0.84 | +0.96 | +1.02 | +205 | +351 |

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| Sire | | DEV | | -Ease | Bii | rth | | rowth | 1 | Mate | ernal | F | ert | | | Card | case | | | Feed | Temp | s | tructura | <u> </u> | Selection | on Index |
| Dam | Reg. | ImmuneDEX IMD | Dir | Dtrs | GL | BW | 200 | 400 | 600 | MCW | Milk | ss | DC | cw | EMA | Rib | P8 | RBY | IMF | NFI-F | Doc | Claw | Angle | Leg | \$A | \$A-L |
| WWEQ24 | ESSLEMONT QUOKKA Q24 PV | +53 | +6.0 | +1.4 | -4.8 | +1.5 | +41 | +82 | +92 | +48 | +18 | +3.8 | -7.4 | +64 | +17.0 | +1.4 | +0.4 | +2.2 | +2.2 | +1.13 | +30 | +0.76 | +0.82 | +0.92 | \$273 | \$400 |
| WWEN12 WWEN7 | HBR | 52% 39 | 69% 21 | 62% 70 | 95% 45 | 96% 9 | 94% 90 | 94% 82 | 93% 94 | 89% 99 | 81% 44 | 91% 8 | 58% 7 | 90% 65 | 89% 1 | 88% 21 | 89% 38 | 80% 1 | 91% 54 | 84% 99 | 87% 18 | 81% 33 | 81% 18 | 78% 21 | 3 | 17 |
| WWE21S6 | ESSLEMONT SEAN S6 PV | +27 | +5.7 | +7.6 | -6.0 | +2.7 | +57 | +101 | +113 | +86 | +14 | +4.3 | -6.4 | +78 | +17.1 | +2.4 | +1.0 | +1.2 | +3.8 | +1.08 | +27 | +1.08 | +1.20 | +1.12 | \$297 | \$462 |
| NGMN418 WWEN7 | HBR | 54% 83 | 69% 24 | 63% 10 | 94% 27 | 91% 24 | 91% 27 | 90% 29 | 89% 67 | 86% 75 | 79% 72 | 82% 4 | 53% 17 | 81% 24 | 78% 1 | 79% 9 | 79% 29 | 72% 10 | 81% 19 | 71% 99 | 89% 26 | 68% 89 | 68% 92 | 66% 78 | 1 | 1 |
| USA16295688 | G A R PROPHET SV | +43 | +3.5 | +6.3 | -0.7 | +3.7 | +67 | +108 | +133 | +85 | +23 | +0.7 | -4.7 | +72 | +3.8 | -0.3 | -1.5 | -0.9 | +4.7 | +0.81 | +27 | +1.02 | +0.82 | +0.92 | \$262 | \$407 |
| USA13009379 USA15129456 | HBR | 88% 57 | 98% 44 | 94% 20 | 99% 94 | 99% 45 | 99% 4 | 99% 15 | 99% 24 | 99% 77 | 99% 14 | 99% 92 | 91% 51 | 98% 40 | 97% 80 | 98% 57 | 98% 71 | 97% 96 | 97% 8 | 94% 94 | 99% 28 | 99% 83 | 99% 18 | 98% 21 | 5 | 13 |
| USA17328461 | G A R SURE FIRE SV | +96 | +6.1 | +2.1 | -3.0 | +2.3 | +50 | +90 | +113 | +85 | +21 | +4.1 | -7.3 | +64 | +8.0 | -0.3 | -0.6 | +0.9 | +3.4 | -0.13 | +26 | +1.18 | +0.92 | +0.62 | \$250 | \$402 |
| USA16205036 USA16431932 | HBR | 79% 1 | 95% 20 | 87% 64 | 99% 73 | 99% 18 | 98% 60 | 98% 61 | 98% 67 | 97% 76 | 98% 25 | 98% 5 | 81% 8 | 97% 63 | 96% 32 | 96% 57 | 96% 56 | 95% 20 | 96% 26 | 90% 16 | 97% 32 | 99% 96 | 99% 39 | 93% 1 | 10 | 15 |
| QBGH221 | GLENOCH HINMAN H221 SV | +69 | +6.6 | | -3.0 | +3.0 | +53 | +94 | +126 | | +19 | +1.0 | | +85 | +6.9 | -2.3 | -5.0 | +0.8 | +5.3 | | +10 | +0.82 | +0.78 | +1.04 | \$209 | \$355 |
| BNAD145 QBGD80 | HBR | 70% 16 | 73% 16 | | 97% 73 | 97% 29 | 96% 43 | 96% 49 | 96% 38 | 92% 33 | 94% | 95% 86 | | 92% 12 | 91% 44 | 91% 91 | 92% 98 | 88% 24 | 92% | | 86% 89 | 89% 46 | 89% 12 | 85% 55 | 48 | 51 |
| DKKM41 | HARDHAT H708 MAIMURU J51 | +86 | -1.2 | +2.9 | -1.6 | +2.3 | +42 | +91 | +117 | +97 | +11 | +1.3 | -3.1 | +62 | +1.7 | +0.9 | -2.0 | -0.6 | +6.4 | +0.04 | +25 | +1.08 | +1.02 | +1.10 | \$179 | \$311 |
| NORH708 DKKJ51 | APR | 50% 2 | 71% 80 | | 95% 89 | 94% 18 | 92% 87 | 91% 57 | 91% 58 | 87% 58 | 84% 90 | 86% 79 | 65% 84 | 90% 70 | 89% 93 | 88% 30 | 89% 78 | 81% 91 | 91% 1 | 84% 30 | 88% 35 | 89% 89 | 90% 63 | 86% 73 | 79 | 81 |
| NHZQ319 | HAZELDEAN Q319 PV | +70 | +3.9 | +9.3 | -8.7 | +2.5 | +54 | +105 | +142 | +140 | +17 | +3.2 | -10.2 | +81 | +2.4 | +2.7 | +1.1 | -1.0 | +4.9 | +0.59 | +31 | +0.80 | +0.98 | +1.08 | \$251 | \$460 |
| NHZM586 NHZL1175 | APR | 51% 15 | 79% 40 | 64% 3 | 98% 5 | 98% 21 | 96% 38 | 96% 19 | 95% 12 | 89% 8 | 81% 54 | 95% 17 | 64% 1 | 91% 18 | 89% 90 | 89% 7 | 90% 27 | 81% 97 | 91% 7 | 82% 84 | 96% 16 | 92% 41 | 92% 54 | 88% 68 | 9 | 1 |
| VMIC31 | INNESDALE CARBINE C31 SV | +33 | +0.5 | -4.7 | -1.4 | +5.4 | +37 | +63 | +81 | +87 | +18 | +0.6 | -5.2 | +35 | +3.3 | -0.2 | -0.9 | +1.1 | +0.7 | +0.34 | +6 | +0.68 | +0.98 | +1.04 | \$129 | \$237 |
| USA14739204 VMIU102 | HBR | 61% 74 | 86% 69 | 78% 96 | 95% 90 | 97% 80 | 96% 96 | 96% 99 | 95% 98 | 94% 74 | 94% 41 | 93% 93 | 68% 39 | 92% 99 | 91% 84 | 91% 54 | 92% 61 | 86% 13 | 92% 87 | 84% 62 | 91% 95 | 82% 19 | 82% 54 | 77% 55 | 98 | 98 |
| KILK18 | KILLAIN ALASKA K18 PV | +26 | -10.6 | -5.3 | -0.9 | +7.1 | +66 | +122 | +163 | +170 | +15 | +3.8 | -2.3 | +84 | +6.2 | -3.1 | -5.1 | +1.0 | -1.2 | -0.68 | +36 | +1.10 | +0.76 | +0.98 | \$124 | \$282 |
| USA16417285 USA15107929 | HBR | 53% 84 | 75% 99 | 64% 97 | 90% 93 | 89% 96 | 89% 5 | 88% 3 | 89% 2 | 86% 1 | 84% 65 | 83% 8 | 52% 93 | 85% 14 | 85% 53 | 85% 96 | 86% 98 | 82% 16 | 88% 99 | 77% 1 | 80% 8 | 77% 91 | 77% 10 | 66% 37 | 98 | 91 |
| BLAP130 | KNOWLA PACKER P130 PV | +16 | +2.2 | +1.3 | -2.8 | +4.8 | +56 | +102 | +134 | +112 | +12 | +1.1 | -5.9 | +78 | +8.4 | -0.2 | -1.1 | +0.9 | +1.8 | +0.17 | +26 | +0.80 | +1.18 | +0.94 | \$236 | \$395 |
| SRKK306 BLAK113 | HBR | 51% 95 | 68% 56 | 62% 71 | 93% 76 | 92% 70 | 90% 30 | 89% 27 | 90% 23 | 86% 34 | 79% 87 | 86% 84 | 55% 25 | 86% 24 | 84% 28 | 84% 54 | 85% 65 | 77% 20 | 87% 64 | 78% 43 | 84% 30 | 81% 41 | 81% 90 | 77% 25 | 20 | 19 |
| VLYL483 | LAWSONS LINKEDIN L483 SV | +55 | +4.1 | -7.0 | -1.1 | +4.1 | +58 | +109 | +153 | +140 | +25 | +4.0 | -5.1 | +103 | +8.9 | -1.4 | +2.3 | +0.2 | +2.0 | -0.18 | +19 | +1.06 | +0.80 | +0.86 | \$216 | \$391 |
| HKFJ5 VLYH221 | HBR | 67% 36 | 72% 38 | 71% 99 | 98% 92 | 98% 54 | 97% 22 | 97% 12 | 97% 5 | 95% 8 | 95% 7 | 94% 6 | 68% 41 | 93% 1 | 89% 23 | 88% 80 | 91% 13 | 84% 59 | 91% 59 | 82% 13 | 89% 59 | 85% 87 | 85% 15 | 81% 10 | 40 | 22 |
| VLYP316 | LAWSONS PROPHET P316 PV | +16 | +4.9 | +5.5 | -2.0 | +3.5 | +57 | +88 | +106 | +66 | +15 | +0.2 | -3.8 | +67 | +12.2 | -3.2 | -3.3 | +1.4 | +4.1 | +0.35 | +30 | +0.70 | +0.76 | +0.82 | \$267 | \$390 |
| USA16295688 VLYM527 | HBR | 58% 95 | 80% 31 | 72% 28 | 93% 85 | 96% 40 | 95% 27 | 94% 68 | 92% 80 | 92% 93 | 88% 64 | 91% 97 | 63% 72 | 88% 56 | 86% 6 | 86% 97 | 87% 91 | 79% 6 | 88% 15 | 79% 63 | 93% 19 | 91% 22 | 91% 10 | 87% 6 | 4 | 22 |
| NMMK35 | MILLAH MURRAH KINGDOM K35 | +37 | -12.3 | | -2.0 | +8.8 | +55 | +100 | | +149 | +11 | +0.9 | | +64 | +7.6 | +0.1 | -0.1 | +1.0 | -1.0 | -0.73 | +28 | +0.82 | +1.28 | +1.20 | \$140 | \$281 |
| NZE469 | HBR | 73% | 96% | 90% | 99% | 99% | 98% | | 98% | 98% | 98% | 98% | 81% | 96% | 95% | 96% | 96% | 94% | 95% | 90% | 98% | 96% | 96% | 94% | | |
| NMMG41 | | 67 | 99 | 98 | 85 | 99 | 34 | 31 | 17 | 4 | 90 | 88 | 30 | 63 | 36 | 47 | 47 | 16 | 99 | 1 | 25 | 46 | 97 | 92 | 96 | 91 |
| | Breed Average EBVs | +48 | +2.2 | +3.0 | -4.5 | +3.9 | +52 | +93 | +120 | +102 | +17 | +2.2 | -4.8 | +69 | +6.5 | +0.0 | -0.2 | +0.4 | +2.5 | +0.23 | +21 | +0.84 | +0.96 | +1.02 | +205 | +351 |

Date:

ay 26, 2025

| Ident | Name | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|----------------------------|------------------|-------------|-------------|-----------|-------------|------------|------------|-------------|-------------|------------|-------------|-----------|------------|-------------|-------------|-------------|-------------|-------------|--------------|------------|--------------|--------------|--------------|-----------|-------------|
| Sire | | | , Calv | -Ease | Bi | rth | | rowth | <u> </u> | Mate | ernal | F | ert | | | Card | case | | | Feed | Temp | s | tructura | <u> </u> | Selection | n Index_ |
| Dam | Reg. | ImmuneDEX IMD | | Dtrs | GL | BW | 200 | 400 | 600 | MCW | Milk | ss | DC | cw | EMA | Rib | P8 | RBY | IMF | NFI-F | Doc | Claw | Angle | Leg | \$A | \$A-L |
| NMMK42 | MILLAH MURRAH KLOONEY K42 | +4 | +3.6 | | | +5.6 | +47 | +86 | +107 | +91 | +22 | +2.2 | -5.5 | +66 | +6.9 | -1.2 | -3.2 | +1.2 | +2.0 | -0.01 | +17 | +0.84 | +0.92 | +1.04 | \$199 | \$335 |
| NGMT30 NMMH4 | HBR | 75% 99 | 86% 43 | 84% 70 | 99% 27 | 99% 84 | 99% 70 | 99% 72 | 98% 77 | 98% 68 | 98% 18 | 98% 47 | 84% 33 | 97% 60 | 96% 44 | 96% 76 | 96% 90 | 94% 10 | 96% 59 | 90% 25 | 99% 66 | 97% 50 | 97% 39 | 95% 55 | 60 | 67 |
| NMML133 | MILLAH MURRAH LOCH UP L133 | +9 | +5.1 | +4.8 | -5.5 | +4.8 | +59 | +99 | +131 | +102 | +25 | +2.1 | -2.7 | +80 | +1.7 | -2.2 | -3.9 | -0.7 | +1.9 | -0.11 | +32 | +0.70 | +1.08 | +1.14 | \$170 | \$313 |
| USA17091363 NMMH49 | HBR | 73% 99 | 81% 29 | 81% 35 | 99% 34 | 99% 70 | 98% 19 | 98% 33 | 98% 28 | 98% 51 | 98% 7 | 98% 51 | 82% 89 | 97% 21 | 95% 93 | 96% 90 | 96% 95 | 94% 93 | 96% 61 | 90% 17 | 98% 13 | 97% 22 | 97% 76 | 96% 82 | 85 | 80 |
| NJWH283 | MILWILLAH ELSOM H283 PV | +32 | +1.1 | -5.2 | -2.2 | +3.9 | +46 | +83 | +122 | +109 | +21 | +1.7 | -1.3 | +76 | +8.9 | -2.3 | -2.5 | +1.4 | +1.4 | +0.32 | +19 | +0.74 | +0.82 | +1.04 | \$148 | \$269 |
| NJWF189 NJWE51 | HBR | 67% 75 | 83% 65 | 72% 97 | 97% 83 | 97% 49 | 96% 75 | 96% 80 | 95% 48 | 92% 39 | 94% 21 | 94% 66 | 64% 98 | 92% 31 | 91% 23 | 91% 91 | 91% 84 | 86% 6 | 92% 74 | 85% 60 | 88% 57 | 89% 29 | 90% 18 | 85% 55 | 94 | 94 |
| NJWE158 | MILWILLAH LAD E158 SV | +41 | -2.8 | -9.5 | -7.8 | +8.0 | +41 | +78 | +106 | +108 | +7 | +2.0 | -5.1 | +43 | +8.9 | -0.9 | -5.1 | +1.4 | +3.3 | +0.28 | +12 | +0.80 | +0.84 | +0.72 | \$157 | \$278 |
| NZEE230 | HBR | 57% | 84% | 76% | | | 97% | | | 93% | 96% | 93% | | 92% | 91% | 91% | 91% | 86% | 92% | 83% | 90% | 79% | 80% | 72% | 04 | 00 |
| CSWP036 | MUDDEDLUCE DI AGIC DEADI | 60 | 87 | 99 | 10 | 99 | 90 | 88 | 79 | 41 | 98 | 55 | 41 | 97 | 23 | 70 | 98 | 6 | 28 | 56 | 83 | 41 | 21 | 2 | 91 | 92 |
| USA17236055 | MURDEDUKE BLACK PEARL HBR | +19 53% | +1.9 80% | +2.8 71% | | +4.7 96% | +49 95% | +94 95% | +130 94% | +117 91% | +21 85% | +3.2 90% | | +59 92% | +0.9 90% | +0.4 90% | -1.3 91% | -1.1 82% | +6.4 92% | +0.61 86% | +15 95% | +0.84 93% | +1.18 94% | +1.22 90% | \$215 | \$381 |
| CSWL123 | TIDIX | 93 | 58 | 57 | 6 | 68 | 63 | 50 | 29 | 27 | 21 | 17 | 6 | 78 | 96 | 40 | 68 | 98 | 1 | 85 | 75 | 50 | 90 | 94 | 42 | 29 |
| CSWK428 | MURDEDUKE KICKING K428 PV | +31 | +7.6 | +10.2 | -7.6 | +1.9 | +48 | +93 | +115 | +88 | +24 | +3.3 | -6.1 | +66 | +2.5 | -0.4 | -2.9 | +0.3 | +0.8 | -0.01 | +41 | +0.86 | +1.02 | +1.18 | \$190 | \$344 |
| VTME343 CSWE175 | HBR | 74% 77 | 89% 10 | 77% 1 | 98% 11 | 98% 13 | 97% 70 | 98% 52 | 97% 62 | 96% 72 | 95% 9 | 97% 15 | 70% 21 | 93% 58 | 92% 89 | 90% 59 | 92% 88 | 87% 53 | 93% 86 | 86% 25 | 97% 4 | 97% 54 | 97% 63 | 95% 89 | 70 | 60 |
| NURM208 | MURRAY GENESIS M208 PV | +39 | +1.6 | +5.6 | -5.9 | +4.5 | +49 | +94 | +127 | +106 | +18 | +3.7 | -6.6 | +82 | +16.5 | -0.3 | -2.3 | +2.0 | +1.3 | +1.43 | +7 | +0.88 | +1.02 | +0.70 | \$240 | \$399 |
| SMPG357 NURK45 | HBR | 73% 64 | 80% 61 | 70% 27 | 94% 29 | 94% 63 | 93% 62 | 93% 49 | 93% 36 | 89% 44 | 88% 41 | 86% 9 | 65% 14 | 89% 16 | 88% 1 | 86% 57 | 89% 82 | 83% 1 | 90% 76 | 82% 99 | 89% 94 | 91% 59 | 91% 63 | 88% 1 | 17 | 17 |
| NURM204 | MURRAY PROCEED M204 PV | +46 | -5.6 | +7.6 | | +4.5 | +62 | +107 | | | +19 | +2.4 | | +89 | +13.4 | -5.0 | -5.8 | +0.6 | +6.9 | | +21 | +0.94 | +0.76 | +0.90 | \$235 | \$392 |
| USA16956101 | HBR | 77% | 80% | 71% | | | 95% | | | 90% | 86% | 90% | | 92% | 90% | 88% | 91% | 86% | 92% | 85% | 93% | 91% | 91% | 88% | Ψ200 | 4002 |
| NURJ43 | | 51 | 94 | 10 | 58 | 63 | 12 | 16 | 10 | 11 | 34 | 40 | 80 | 8 | 3 | 99 | 99 | 35 | 1 | 31 | 49 | 70 | 10 | 16 | 20 | 21 |
| SFNL21 | NAMPARA LIBERTY L21 SV | +58 | -5.0 | -4.8 | -6.5 | +8.6 | +67 | | | +165 | | +2.9 | | +79 | +7.7 | -2.1 | -0.8 | +1.8 | -2.4 | -0.65 | +23 | +0.90 | +0.88 | +0.98 | \$144 | \$301 |
| NZE10322010609 SFNH65 | HBR | 70% 31 | 88% 93 | 75% 96 | 98% 21 | 98% 99 | 97% 4 | 97% 9 | 97% 7 | 95% 2 | 95% 33 | 96% 24 | 64% 99 | 94% 23 | 92% 35 | 90% 89 | 93% 60 | 88% 2 | 93% 99 | 86% 1 | 95% 40 | 92% 63 | 92% 29 | 88% 37 | 95 | 85 |
| SKOJ6 | NEWLYN PARK EMPEROR J6 PV | +12 | -8.1 | -5.8 | -6.8 | +7.6 | +65 | +112 | +144 | +162 | +7 | +1.3 | | +80 | +8.4 | -1.0 | -1.1 | +1.3 | +0.2 | -0.76 | +14 | +1.06 | +0.82 | +0.74 | \$178 | \$338 |
| VTME343 | HBR | 64% | 78% | 70% | | | 91% | 00,0 | | 88% | 84% | 85% | | 87% | 86% | 86% | 87% | 81% | 88% | 80% | 85% | 86% | 85% | 81% | | |
| NZCE115 | | 98 | 97 | 98 | 18 | 98 | 6 | 9 | 10 | 2 | 98 | 79 | 74 | 21 | 28 | 72 | 65 | 8 | 94 | 1 | 78 | 87 | 18 | 2 | 80 | 64 |
| NZE21095018 HIOE7 | NGAPUTAHI P206 PV | +81 55% | +9.9 81% | +4.8 73% | | | +41 96% | +83 95% | +97 95% | +66 91% | +27 86% | +2.7 | | +54 | +6.0 89% | +0.1 89% | -1.9 89% | +1.1 | +4.0 91% | | +17 89% | +0.94 85% | +1.12 86% | +1.10 83% | \$246 | \$386 |
| NZE21095112H49 | HBR | 5 | 2 | 35 | 89 | 2 | 90 | 78 | 95% | 93 | 4 | 94% 30 | 68% | 90% 86 | 55 | 47 | 77 | 82% 13 | 16 | 83% 44 | 65 | 70 | 83 | 73 | 12 | 25 |
| USA16981588 | PA FULL POWER 1208 PV | +63 | -5.1 | -4.6 | -4.8 | +3.8 | +52 | +98 | +119 | +75 | +14 | +2.0 | -2.4 | +70 | +12.7 | -1.8 | +0.5 | +1.1 | +3.0 | +0.89 | +21 | +1.24 | +0.94 | +0.72 | \$225 | \$330 |
| USA16381311 USA16408070 | HBR | 76% 24 | 94% 93 | 86% 96 | 99% 45 | 98% 47 | 98% 48 | 98% 38 | 98% 55 | 98% 87 | 98% 76 | 98% 55 | 75% 92 | 96% 45 | 95% 4 | 94% 86 | 95% 37 | 92% 13 | 95% 35 | 88% 96 | 98% 48 | 98% 98 | 98% 44 | 91% 2 | 30 | 70 |
| SMPG357 | PATHFINDER GENESIS G357 PV | +41 | -0.7 | +3.8 | | +6.6 | +62 | | | +136 | | +4.4 | | +96 | +13.9 | | -1.0 | +1.4 | | | +28 | +0.86 | +1.06 | +0.78 | \$242 | \$421 |
| VTMB1 | HBR | 65% | 97% | 90% | 99% | 99% | 99% | 99% | 99% | 98% | 98% | 98% | 86% | 97% | 96% | 96% | 96% | 95% | 96% | 91% | 99% | 98% | 98% | 96% | | • |
| SMPD245 | | 60 | 77 | 47 | 14 | 94 | 12 | 13 | 7 | 10 | 6 | 4 | 9 | 3 | 2 | 47 | 63 | 6 | 93 | 87 | 24 | 54 | 72 | 4 | 15 | 7 |
| | Breed Average EBVs | +48 | +2.2 | +3.0 | -4.5 | +3.9 | +52 | +93 | +120 | +102 | +17 | +2.2 | -4.8 | +69 | +6.5 | +0.0 | -0.2 | +0.4 | +2.5 | +0.23 | +21 | +0.84 | +0.96 | +1.02 | +205 | +351 |

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| Ident | Name | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-----------------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| Sire | | Immum a DEV | , Calv | -Ease | Bi | rth | | Growth | <u> </u> | Mat | ernal | F | ert | | | Card | case | | | Feed | Temp | s | tructura | <u> </u> | Selection | on Index |
| Dam | Reg. | ImmuneDEX IMD | | Dtrs | GL | BW | 200 | 400 | 600 | MCW | Milk | SS | DC | CW | EMA | Rib | P8 | RBY | IMF | NFI-F | Doc | Claw | Angle | Leg | \$A | \$A-L |
| SMPK22 | PATHFINDER KOMPLETE K22 SV | +73 | +10.0 | +7.8 | -9.1 | +0.9 | +41 | +74 | +96 | +49 | +26 | +2.9 | -7.1 | +54 | +7.1 | +3.7 | +5.5 | +0.2 | +2.3 | +0.52 | +27 | +0.50 | +0.86 | +0.66 | \$241 | \$368 |
| SMPG357 SMPH756 | HBR | 73% 11 | 93% 2 | 81% 9 | 99% 4 | 98% 5 | 98% 90 | 98% 93 | 98% 91 | 97% 99 | 97% 5 | 98% 24 | 75% 9 | 95% 86 | 94% 42 | 94% 3 | 94% 1 | 93% 59 | 94% 51 | 88% 79 | 97% 26 | 96% 3 | 96% 25 | 94% 1 | 16 | 40 |
| SMPM651 | PATHFINDER MASTERPIECE | +31 | +3.8 | +4.4 | -6.1 | +5.0 | +56 | +104 | +128 | +138 | +21 | +3.5 | -7.6 | +52 | +9.6 | -1.7 | -4.2 | +1.6 | +1.6 | -0.21 | +33 | +0.98 | +1.22 | +1.18 | \$229 | \$418 |
| VTMG67 SMPH66 | HBR | 60% 77 | 80% 41 | 73% 40 | 92% 26 | 95% 74 | 93% 30 | 93% 21 | 93% 33 | 89% 9 | 88% 23 | 89% 12 | 64% 6 | 88% 89 | 87% 18 | 87% 84 | 87% 96 | 81% 4 | 89% 69 | 81% 12 | 83% 13 | 77% 77 | 77% 94 | 74% 89 | 26 | 9 |
| SMPN56 | PATHFINDER NUCLEUS N56 SV | +34 | +4.7 | +2.8 | -3.4 | +5.3 | +60 | +106 | +137 | +132 | +16 | +4.6 | -6.9 | +75 | +12.8 | +0.9 | +1.1 | +0.9 | +1.7 | +0.40 | +8 | +0.76 | +0.78 | +0.84 | \$253 | \$442 |
| HIOG18 SMPL179 | HBR | 50% 72 | 81% 32 | 70% 57 | 96% 68 | 97% 79 | 96% 18 | 95% 18 | 95% 18 | 91% 13 | 91% 60 | 94% 3 | 64% 11 | 92% 33 | 90% 4 | 90% 30 | 91% 27 | 83% 20 | 92% 66 | 86% 68 | 90% 92 | 86% 33 | 87% 12 | 82% 8 | 9 | 3 |
| NZE41-97 | PINEBANK WAIGROUP 41/97 # | +61 | +3.5 | -3.9 | -3.4 | +3.6 | +37 | +64 | +76 | +50 | +18 | +0.9 | -4.3 | +17 | +5.4 | +1.1 | +0.2 | +1.0 | +1.1 | -0.05 | +33 | +0.28 | +0.90 | +0.96 | \$163 | \$251 |
| NZE53195 NZE63988 | HBR | 69% 27 | 96% 44 | 91% 95 | 98% 68 | 99% 42 | 98% 96 | 98% 99 | 98% 99 | 98% 98 | 98% 44 | 98% 88 | 89% 61 | 97% 99 | 96% 63 | 96% 26 | 96% 42 | 95% 16 | 96% 80 | 90% 22 | 93% 12 | 88% 1 | 88% 34 | 84% 31 | 89 | 97 |
| NLRE17 | REILAND EVERITT E17 PV | +22 | -4.4 | +4.7 | -1.2 | +5.0 | +52 | +89 | +121 | +89 | +16 | +4.4 | -3.2 | +66 | +10.5 | -2.0 | +0.9 | +1.0 | +1.7 | -0.47 | +14 | +1.06 | +0.92 | +1.00 | \$201 | \$321 |
| USA13058662 NAQW232 | HBR | 64% 89 | 87% 91 | 78% 36 | 95% 92 | 97% 74 | 95% 50 | 95% 64 | 96% 49 | 94% 72 | 94% 59 | 94% 4 | 70% 83 | 92% 59 | 91% 12 | 91% 88 | 91% 30 | 87% 16 | 92% 66 | 84% 3 | 88% 78 | 86% 87 | 87% 39 | 83% 43 | 59 | 75 |
| NORF340 | RENNYLEA BLACK GOLD F340 PV | +73 | +6.4 | +0.6 | -2.9 | +1.3 | +35 | +66 | +80 | +82 | +2 | +0.9 | -2.7 | +21 | +2.0 | -0.5 | +0.2 | -0.1 | +4.4 | -0.11 | +15 | +0.76 | +0.82 | +0.74 | \$143 | \$262 |
| NZE04379 VLYZ1393 | HBR | 67% 11 | 83% 18 | 75% 76 | 96% 75 | 96% 7 | 95% 98 | 94% 98 | 94% 99 | 92% 80 | 92% 99 | 91% 88 | 70% 89 | 91% 99 | 90% 92 | 90% 61 | 90% 42 | 83% 75 | 91% 11 | 85% 17 | 90% 76 | 88% 33 | 88% 18 | 84% 2 | 95 | 95 |
| NORE11 | RENNYLEA EDMUND E11 PV | +24 | +8.6 | +0.3 | -6.7 | +1.2 | +34 | +64 | +84 | +55 | +16 | +1.8 | -9.0 | +50 | +4.2 | +3.5 | +1.3 | -0.2 | +4.2 | +0.77 | +23 | +0.54 | +1.04 | +1.10 | \$210 | \$331 |
| NGMY145 VLYY5 | HBR | 79% 87 | 99% 6 | 97% 79 | 99% 19 | 99% 7 | 99% 98 | 99% 99 | 99% 98 | 99% 97 | 99% 60 | 99% 63 | 95% 1 | 98% 91 | 98% 76 | 98% 3 | 98% 25 | 98% 79 | 98% 13 | 96% 93 | 99% 41 | 99% 5 | 99% 68 | 99% 73 | 48 | 69 |
| NORH708 | RENNYLEA H708 PV | +96 | -8.0 | +1.8 | +1.3 | +4.6 | +47 | +102 | +128 | +129 | +12 | +2.4 | -3.3 | +72 | +12.4 | -3.4 | -6.8 | +2.0 | +7.2 | +0.65 | +22 | +0.70 | +0.68 | +0.92 | \$216 | \$360 |
| NORC511 NORE176 | APR | 86% | 93% 97 | 85% 67 | 98% 99 | 98% 65 | 98% 73 | 98% 26 | 98% 34 | 97% 15 | 97% 87 | 98% 40 | 83% 81 | 96% 41 | 95% 5 | 95% 98 | 96% 99 | 94% 1 | 96% 1 | 93% 87 | 98% 47 | 98% 22 | 98% 4 | 97% 21 | 40 | 46 |
| NORK163 | RENNYLEA K163 PV | +29 | +4.7 | -7.8 | -3.8 | +2.6 | +40 | +74 | +95 | +69 | +10 | +0.8 | -5.8 | +63 | +19.2 | -0.5 | -1.3 | +2.7 | +2.6 | +0.15 | +19 | +0.64 | +0.74 | +1.02 | \$244 | \$359 |
| NORH106 NORE176 | APR | 80% 80 | 76% 32 | 73% 99 | 98% 61 | 98% 22 | 98% 93 | 98% 93 | 97% 92 | 97% 92 | 96% 92 | 96% 90 | 78% 27 | 95% 67 | 94% 1 | 94% 61 | 94% 68 | 92% 1 | 95% 44 | 88% 41 | 91% 60 | 90% 14 | 90% 8 | 87% 49 | 14 | 47 |
| NORK522 | RENNYLEA KODAK K522 SV | +47 | +8.5 | +8.4 | -4.8 | +1.4 | +44 | +82 | +107 | +108 | +12 | +4.6 | -8.0 | +47 | +3.9 | +3.4 | +1.1 | -0.3 | +4.0 | +0.31 | +7 | +0.58 | +0.80 | +0.92 | \$207 | \$382 |
| NORE11 NORF810 | HBR | 71% 50 | 94% 6 | 85% 6 | 99% 45 | 99% 8 | 98% 82 | 98% 81 | 98% 78 | 97% 41 | 98% 87 | 98% 3 | 76% 4 | 96% 94 | 94% 79 | 94% 4 | 95% 27 | 92% 83 | 94% 16 | 89% 59 | 96% 93 | 97% 8 | 97% 15 | 95% 21 | 51 | 28 |
| NORL508 | RENNYLEA L508 PV | +75 | +1.6 | +7.9 | -5.9 | +2.6 | +46 | +85 | +118 | +90 | +27 | +1.3 | -7.5 | +55 | +5.6 | +0.8 | -0.2 | -0.2 | +5.4 | +0.65 | +14 | +0.64 | +0.80 | +0.88 | \$239 | \$387 |
| USA17366506 NORH414 | HBR | 55% 9 | 84% 61 | 79% 9 | 99% 29 | 99% 22 | 98% 77 | 98% 74 | 98% 56 | 98% 69 | 98% 3 | 98% 79 | 83% 6 | 96% 85 | 95% 60 | 96% 32 | 96% 49 | 94% 79 | 95% 4 | 90% 87 | 99% 76 | 98% 14 | 98% 15 | 97% 13 | 17 | 25 |
| NORL683 | RENNYLEA L683 PV | +73 | +2.7 | +1.5 | -4.3 | +4.9 | +54 | +95 | +117 | +101 | +5 | +2.4 | -6.4 | +78 | +4.6 | +0.6 | -1.3 | +0.8 | +2.3 | +0.57 | +23 | +0.70 | +0.86 | +1.00 | \$229 | \$381 |
| NORE11 NORJ631 | APR | 71% 11 | 84% 51 | 75% 70 | 98% 53 | 97% 72 | 96% 37 | 96% 47 | 96% 59 | 94% 52 | 93% 99 | 95% 40 | 71% 17 | 91% 25 | 90% 72 | 89% 36 | 91% 68 | 86% 24 | 91% 51 | 85% 83 | 95% 42 | 92% 22 | 92% 25 | 89% 43 | 26 | 29 |
| NORP987 | RENNYLEA P987 PV | +60 | +10.3 | 3 +8.8 | -8.2 | +1.5 | +51 | +98 | +124 | +125 | +7 | +0.4 | -3.0 | +72 | +5.6 | +3.9 | +2.4 | -1.3 | +8.3 | +0.96 | +11 | +0.90 | +1.02 | +1.04 | \$226 | \$403 |
| NORM763 NORM1184 | APR | 52% 28 | 75% 2 | | 97% 7 | 97% 9 | 96% 54 | 96% 36 | 96% 42 | | 89% 99 | 95% 95 | 63% 86 | 90% 41 | 89% 60 | 89% 2 | 89% 13 | 82% 99 | 91% 1 | | 96% 87 | 93% 63 | 93% 63 | 90% 55 | 29 | 15 |
| | Breed Average EBVs | +48 | +2.2 | +3.0 | -4.5 | +3.9 | +52 | +93 | +120 | +102 | +17 | +2.2 | -4.8 | +69 | +6.5 | +0.0 | -0.2 | +0.4 | +2.5 | +0.23 | +21 | +0.84 | +0.96 | +1.02 | +205 | +351 |

Date:

лау 26, 2025

| ldent | Name | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----------------------------|------------|-------------|-----------|-------------|-------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| Sire | <u> </u> | ImmuneDE: | Calv | -Ease | Bi | rth | | Growth | | Mat | ernal | F | ert | | | Card | ase | | | Feed | Temp | <u> </u> | tructura | <u> </u> | Selection | on Index |
| Dam | Reg. | IMD | Dir | Dtrs | GL | BW | 200 | 400 | 600 | MCW | Milk | SS | DC | CW | EMA | Rib | P8 | RBY | IMF | NFI-F | Doc | Claw | Angle | Leg | \$A | \$A-L |
| NORQ1081 | RENNYLEA Q1081 PV | +82 | -3.4 | +4.0 | -3.8 | +3.9 | +51 | +92 | +119 | +108 | +12 | +3.5 | -5.6 | +49 | +8.8 | +0.5 | -0.9 | +0.3 | +6.9 | +0.75 | +14 | +0.86 | +0.88 | +0.88 | \$238 | \$386 |
| NORH708 | APR | 57% | 77% | | 93% | | | | 92% | | 82% | 89% | | | 87% | 87% | 88% | 80% | 89% | 81% | 90% | 88% | 88% | 84% | | |
| NORL841 | | 4 | 89 | 44 | 61 | 49 | 55 | 55 | 55 | 41 | 88 | 12 | 30 | 93 | 24 | 38 | 61 | 53 | 1 | 92 | 79 | 54 | 29 | 13 | 18 | 25 |
| NORQ213 | RENNYLEA Q213 PV | +28 | +9.1 | | | +0.8 | +63 | | | | +24 | +0.5 | | | +8.6 | +0.8 | +0.1 | +0.1 | +3.3 | +0.74 | +28 | +0.50 | +0.70 | +0.86 | \$331 | \$514 |
| NORK907 NORL110 | APR | 53% 81 | 84% 4 | 70% 10 | 98% 12 | 98% 5 | 97% 10 | 97% 5 | 97% 7 | 94% 67 | 90% 9 | 96% 94 | 62% 1 | 91% 2 | 89% 26 | 89% 32 | 90% 44 | 83% 65 | 90% 28 | 81% 91 | 97% 25 | 95% 3 | 95% 5 | 92% 10 | 1 | 1 |
| NORR992 | RENNYLEA R992 PV | +32 | +4.8 | +8.0 | +1.9 | +1.2 | +44 | +84 | +115 | +85 | +26 | +1.7 | -6.4 | +68 | +11.5 | +1.7 | +2.2 | -0.2 | +6.5 | +1.13 | +24 | +0.58 | +0.82 | +0.84 | \$258 | \$410 |
| NORN542 | APR | 50% | 69% | 61% | 95% | 95% | 94% | 94% | 93% | 91% | 84% | 91% | 53% | 82% | 81% | 81% | 81% | 75% | 82% | 68% | 92% | 84% | 84% | 78% | | |
| NORM1034 | | 75 | 31 | 8 | 99 | 7 | 83 | 77 | 63 | 76 | 6 | 66 | 17 | 54 | 8 | 17 | 14 | 79 | 1 | 99 | 37 | 8 | 18 | 8 | 7 | 12 |
| APBK11 | SHACORRAHDALU KINETIC K11 | +20 | +9.9 | | | +0.3 | | | +105 | +95 | +10 | +4.7 | -6.8 | +65 | +10.5 | +3.8 | +2.7 | +0.5 | +2.3 | +0.92 | +2 | +0.98 | +1.22 | +1.06 | \$238 | \$408 |
| VTMB1 APBF2 | HBR | 51% | 78% | 71% | 93% | | | | | 89% | 85% | 86% | | 86% | 84% | 84% | 85% | 78% | 86% | 78% | 86% | 84% | 83% | 80% | 40 | 40 |
| | | 92 | 2 | | 4 | 3 | 63 | 67 | 81 | 61 | 93 | 2 | 12 | 62 | 12 | 3 | 10 | 41 | 51 | 97 | 98 | 77 | 94 | 62 | 18 | 12 |
| NZE19507013 | STORTH OAKS JACK J7 SV | +14 69% | +6.2 89% | | -4.8 98% | +4.4 98% | +61 97% | | | | | +3.5 | | +79 | +8.1 | -0.3 | -3.2 | -0.3 | +2.5 | +0.10 | +20 | +1.02 | +0.98 | +0.92 | \$184 | \$368 |
| VTME343 NZE19507111G183 | HBR | 97 | 19 | 8 | 45 | 61 | 14 | 97% 7 | 97% 6 | 95% 6 | 95% 49 | 96% 12 | 71% 96 | 94% 23 | 93% 31 | 93% 57 | 93% 90 | 90% 83 | 94% 46 | 87% 36 | 96% 52 | 93% 83 | 93% 54 | 90% 21 | 75 | 40 |
| VSNG34 | STRATHEWEN BERKLEY G34 PV | +40 | +7.8 | +8.1 | -6.6 | | | +107 | +142 | +148 | | +2.2 | | +84 | +6.4 | +1.0 | +0.3 | +0.2 | +2.1 | -0.09 | +29 | +1.06 | +1.24 | +1.10 | \$230 | \$436 |
| VTMB1 | HBR | 70% | 81% | | 96% | | 93% | | 93% | 91% | 90% | 88% | | 91% | 90% | 89% | 90% | 86% | 91% | 85% | 89% | 88% | 88% | 85% | • | • |
| VSNE22 | | 62 | 9 | 8 | 20 | 42 | 25 | 15 | 12 | 5 | 45 | 47 | 7 | 14 | 50 | 28 | 40 | 59 | 56 | 19 | 20 | 87 | 95 | 73 | 25 | 4 |
| USA17236055 | SYDGEN BLACK PEARL 2006 PV | +8 | +2.2 | +7.3 | -7.0 | +3.2 | +51 | +85 | +123 | +87 | +21 | +1.5 | -3.4 | +74 | +8.3 | +0.4 | -0.5 | +0.4 | +2.9 | +0.28 | +16 | +1.04 | +1.18 | +1.14 | \$210 | \$340 |
| USA15354674 | HBR | 76% | 98% | | 99% | | 99% | 00,0 | 99% | 98% | 99% | 99% | | 98% | 97% | 97% | 97% | 96% | 97% | 92% | 99% | 99% | 99% | 98% | | |
| USA16214508 | | 99 | 56 | 12 | 16 | 33 | 51 | 74 | 45 | 73 | 23 | 73 | 80 | 35 | 29 | 40 | 54 | 47 | 37 | 56 | 72 | 85 | 90 | 82 | 48 | 63 |
| VTMK52 | TE MANIA KALIBROOK K52 PV | +45 | +7.5 | | -3.2 | | | | | +102 | | +1.7 | | +74 | +4.1 | | +1.7 | -0.7 | | +1.43 | +7 | +1.22 | +1.12 | +1.18 | \$247 | \$414 |
| USA16295688 VTMH423 | HBR | 71% 53 | 78% 11 | 70% 28 | 94% 71 | 95% 8 | 92% 51 | 92% 25 | 91% 32 | 88% 50 | 84% 2 | 88% 66 | 66% 25 | 88% 35 | 86% 77 | 85% 28 | 87% 20 | 83% 93 | 89% 3 | 80% 99 | 87% 93 | 90% 98 | 90% 83 | 87% 89 | 11 | 10 |
| VTMK138 | TE MANIA KIRBY K138 PV | +18 | +0.6 | | -1.3 | | | | +117 | | +19 | +2.5 | | +65 | +5.5 | +1.8 | +3.1 | -2.0 | +8.5 | | +15 | +0.78 | +0.76 | +0.94 | \$253 | \$410 |
| USA16295688 | HBR | 68% | 88% | | 99% | | | | 98% | 98% | 98% | 98% | | 97% | 97% | 96% | 97% | 95% | 96% | 90% | 99% | 99% | 99% | 99% | Ψ200 | ΨΠΟ |
| VTMH17 | TIER | 94 | 68 | 9 | 91 | 68 | 49 | 65 | 59 | 62 | 35 | 36 | 5 | 61 | 62 | 16 | 8 | 99 | 1 | 96 | 74 | 37 | 10 | 25 | 8 | 12 |
| VTMN424 | TE MANIA NEBO N424 PV | +51 | +9.0 | -1.0 | -6.6 | +4.1 | +54 | +101 | +134 | +102 | +28 | +4.4 | -5.0 | +54 | +6.8 | -0.7 | -4.0 | +0.3 | +4.0 | -0.03 | +47 | +0.92 | +0.86 | +0.94 | \$218 | \$368 |
| VTMJ89 | HBR | 51% | 91% | 84% | 99% | 98% | 98% | 98% | 98% | 97% | 97% | 97% | 74% | 97% | 96% | 96% | 96% | 91% | 95% | 86% | 98% | 98% | 98% | 98% | | |
| VTMJ214 | | 43 | 5 | 86 | 20 | 54 | 39 | 27 | 23 | 51 | 3 | 4 | 44 | 87 | 45 | 66 | 95 | 53 | 16 | 24 | 1 | 67 | 25 | 25 | 38 | 39 |
| VTMN1387 | TE MANIA NEON N1387 SV | +19 | +1.4 | | -6.5 | | | | +105 | +92 | +19 | +1.2 | -6.1 | +39 | +3.3 | -0.1 | -0.6 | -2.2 | +10. | -0.32 | +25 | +0.72 | +0.80 | +0.92 | \$212 | \$352 |
| VTMK138 VTML452 | HBR | 50% 93 | 82% 62 | 74% 61 | 98% 21 | 98% 40 | 98% 75 | 98% 78 | 97% 81 | 96% 67 | 93% 35 | 96% 82 | 67% 21 | 95% 98 | 94% 84 | 93% 52 | 95% 56 | 86% 99 | 94% 1 | 87% 7 | 98% 34 | 97% 26 | 97% 15 | 96% 21 | 45 | 53 |
| VTMP888 | TE MANIA PESO P888 PV | +53 | +7.3 | | -5.2 | | | | | | | +2.4 | -7.3 | +91 | +6.8 | -0.4 | +1.3 | +0.5 | +1.6 | -0.15 | +23 | +0.84 | +1.08 | +1.00 | \$262 | \$450 |
| VTMK226 | HBR | 56% | 81% | 75% | 98% | 98% | 97% | 97% | 97% | 96% | 94% | 94% | 71% | 95% | 94% | 94% | 95% | 87% | 93% | 85% | 96% | 95% | 96% | 94% | | • |
| VTMH423 | | 39 | 12 | 22 | 39 | 16 | 26 | 7 | 9 | 26 | 7 | 40 | 8 | 6 | 45 | 59 | 25 | 41 | 69 | 15 | 43 | 50 | 76 | 43 | 5 | 2 |
| DBLL292 | TOPBOS LEADING EDGE L292 PV | +26 | +2.6 | +8.3 | -5.9 | +6.6 | +73 | +125 | +164 | +150 | +23 | +1.4 | -3.9 | +83 | +4.0 | -2.2 | -5.2 | +0.0 | +1.6 | +0.02 | +19 | +0.94 | +0.82 | +0.82 | \$220 | \$408 |
| USA16295688 | HBR | 74% | 88% | | 98% | | 97% | | | | 96% | 97% | | | 92% | 91% | 93% | 88% | 93% | 86% | 97% | 92% | 92% | 88% | | 4.0 |
| VSNF04 | | 84 | 52 | 7 | 29 | 94 | 1 | 2 | 2 | 4 | 12 | 76 | 70 | 16 | 78 | 90 | 98 | 70 | 69 | 28 | 60 | 70 | 18 | 6 | 35 | 12 |
| | Breed Average EBVs | +48 | +2.2 | +3.0 | -4.5 | +3.9 | +52 | +93 | +120 | +102 | +17 | +2.2 | -4.8 | +69 | +6.5 | +0.0 | -0.2 | +0.4 | +2.5 | +0.23 | +21 | +0.84 | +0.96 | +1.02 | +205 | +351 |

Date:

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| Ident | Name | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| Sire | | ImmuneDEX | Calv | -Ease | Bi | rth | | Growth | <u> </u> | Mat | ernal | F | ert | | | Car | case | | | Feed | Temp | | tructura | <u> </u> | Selection | on Index |
| Dam | Reg. | IMD | | Dtrs | GL | BW | 200 | 400 | 600 | MCW | Milk | SS | DC | CW | EMA | Rib | P8 | RBY | IMF | NFI-F | Doc | Claw | Angle | Leg | \$A | \$A-L |
| QKBP29 | WARRAWEE PATROL P29 PV | +58 | +7.0 | +10.6 | -11.8 | +3.0 | +55 | +104 | +139 | +129 | +17 | +2.4 | -10.3 | +100 | +9.4 | +3.6 | +2.1 | +0.2 | +2.0 | +0.63 | +31 | +0.80 | +1.18 | +1.00 | \$271 | \$479 |
| SMPG357 QKBM01 | HBR | 64% 31 | 80% 14 | 71% 1 | 96% 1 | 94% 29 | 93% 35 | 92% 21 | 91% 16 | 88% 15 | 82% 48 | 88% 40 | 65% 1 | 86% 2 | 85% 19 | 85% 3 | 86% 15 | 79% 59 | 87% 59 | 78% 86 | 88% 16 | 78% 41 | 78% 90 | 74% 43 | 3 | 1 |
| NWPE111 | WATTLETOP SITZ 458N E111 SV | +17 | +4.5 | +6.7 | -3.7 | +2.8 | +51 | +91 | +125 | +96 | +25 | +2.0 | -1.4 | +83 | +5.5 | -4.1 | -3.5 | +0.9 | +2.7 | -0.53 | +26 | +0.98 | +0.94 | +1.12 | \$187 | \$321 |
| USA14474596 NWPC36 | HBR | 67% 94 | 90% 34 | 80% 17 | 97% 63 | 98% 26 | 97% 53 | 97% 57 | 97% 40 | 95% 61 | 96% 7 | 95% 55 | 74% 98 | 94% 14 | 92% 62 | 92% 99 | 93% 92 | 89% 20 | 93% 42 | 85% 3 | 95% 30 | 87% 77 | 88% 44 | 83% 78 | 72 | 76 |
| CWDM5 | WEATHERLY MOXY M5 SV | +44 | +3.1 | +6.9 | -4.3 | +4.0 | +56 | +101 | +135 | +113 | +27 | +2.6 | -6.7 | +92 | +7.2 | +2.9 | -0.2 | +0.3 | +2.6 | +0.29 | +21 | +0.94 | +1.06 | +0.98 | \$240 | \$409 |
| SMPG357 CWDJ15 | HBR | 52% 55 | 72% 47 | 66% 15 | 93% 53 | 96% 52 | 95% 30 | 95% 29 | 95% 21 | 93% 33 | 91% 3 | 89% 33 | 64% 13 | 86% 5 | 85% 41 | 85% 6 | 85% 49 | 80% 53 | 85% 44 | 73% 57 | 92% 48 | 92% 70 | 92% 72 | 84% 37 | 17 | 12 |
| | Breed Average EBVs | +48 | +2.2 | +3.0 | -4.5 | +3.9 | +52 | +93 | +120 | +102 | +17 | +2.2 | -4.8 | +69 | +6.5 | +0.0 | -0.2 | +0.4 | +2.5 | +0.23 | +21 | +0.84 | +0.96 | +1.02 | +205 | +351 |

