

3382 Capital Circle NE Tallahassee, FL 32308 Generated On: 9/2/2020

Equine Genetic Testing Report

Submitted By

Richard Watson

P.O. Box 277 Franklin, TX 77856



Subject Horse 00136871

Horse Name: Millie Breed: Paint Horse Phenotype: Buckskin

Date Received: 5/4/2020

Registration: Pending Sex: Filly

Birth: 2020

Sire

Sire Name: El Ante

Breed: Quarter Horse Registration: 5491427 Phenotype: Buckskin

Dam

Dam Name: Sierras Fancy Tribute

Breed: Paint Horse Registration: 757,719 Phenotype: Sorrel

Test Results cont.

| st Results | | | | | |
|------------------|---|--|--|--|--|
| Red/Black Factor | Ee | Heterozygous. Horse is Black based but carries a recessive copy of the Red gene. | | | |
| Agouti | Aa | Heterozygous. Horse carries one copy of the Agouti gene. | | | |
| Cream | nCr | Heterozygous. Single dilute. Horse carries one copy of the Cream Dilution gene. | | | |
| Dun | nd1/nd2 | 1 copy of nd1 and 1 copy of nd2. Horse is not Dun diluted. Varying levels of primitive markings possible. | | | |
| Silver | nn | Negative for Silver Dilution. | | | |
| Champagne | nn | Negative for Champagne Dilution. | | | |
| Pearl | nn | Negative for Pearl Dilution. | | | |
| Tobiano | nn | Negative for Tobiano. | | | |
| LWO | nn | Negative for Frame Overo (LWO). | | | |
| Sabino1 | nn | Negative for the Sabino 1 gene. | | | |
| SW1 | nn | Negative for the Splashed White SW1 mutation. | | | |
| SW2 | nn | Negative for the Splashed White SW2 mutation. | | | |
| SW3 | nn | Negative for the Splashed White SW3 mutation. | | | |
| LP | lp/lp | Tested negative for the main Appaloosa LP gene and is NOT affected by CSNB. | | | |
| PATN1 | n/n | Negative: Horse does not the carry the PATN-1 gene mutation. | | | |
| W3 | n/n | The W3 c.706A>T mutation in exon 4 of the KIT gene was NOT detected. Horse is negative for the W3 allele. | | | |
| W5 | n/n | The W5 1-bp deletion in exon 15 of the KIT gene was NOT detected. Horse is negative for the W5 allele. | | | |
| W10 | n/n | The W10 4-bp deletion in exon 7 of the KIT gene was NOT detected. Horse is negative for the W10 allele. | | | |
| W13 | n/n | Horse is negative for the W13 Dominant White gene mutation. | | | |
| | Red/Black Factor Agouti Cream Dun Silver Champagne Pearl Tobiano LWO Sabino1 SW1 SW2 SW3 LP PATN1 W3 W5 W10 | Red/Black Factor Ee Agouti Aa Cream nCr Dun nd1/nd2 Silver nn Champagne nn Pearl nn Tobiano nn LWO nn Sabino1 nn SW1 nn SW2 nn SW2 nn LP lp/lp PATN1 n/n W3 n/n W5 n/n W10 n/n | | | |

| Personal Property Co. | | | | | |
|-----------------------|-----------------------|--|--|--|--|
| X | W19 | n/n | Horse is negative for the W19 Dominant White gene mutation. | | |
| X | W20 n/ | | The W20 c.2045G>A mutation in exon 14 of the KIT gene was NOT detected. Horse is negative for the W20 allele. | | |
| X | HYPP | n/n | Clear: Negative for the HYPP gene mutation. | | |
| Х | HERDA | N/N | Clear: Negative for the HERDA gene mutation. | | |
| X | GBED | N/N | Clear: Negative for the GBED gene mutation. | | |
| X | IMM | N/IMM | Both the normal and mutant alleles MYH1 gene were detected. Horse has a susceptibility to developing Immune-Mediated Myositis. | | |
| X | МН | n/n | Clear: Negative for the MH gene mutation found in Quarter horses and related breeds. | | |
| Х | PSSM1 | n/n | Clear: Negative for the PSSM Type 1 gene mutation. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | 4.00 | | | |
| | | | | | |
| | X X X X X | X W20 X HYPP X HERDA X GBED X IMM X MH | X W20 n/n X HYPP n/n X HERDA N/N X GBED N/N X IMM N/IMM X MH n/n | | |

| 3enetic | Marker | Results | Run Date: Not Tested | | | |
|---------|--------|---------|----------------------|-------|------|---------|
| - | - | - | | - | - | |
| AHT4 | AHT5 | ASB17 | ASB2 | ASB23 | AME | CA425UK |
| - | - | - | - | - | - | - |
| HMS3 | HMS6 | HMS7 | HTG10 | HTG4 | LEX3 | LEX33 |
| - | - | - | - | - | - | |
| VHL20 | UM011 | HMS1 | HMS2 | HTG6 | HTG7 | |

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