

GENETIC TEST REPORT



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BAY COLT **ADELAIDE (IRE) EX ANANTHA** DOB 7TH SEPTEMBER 2019

Melbourne Premier Yearling Sale





Speed Gene Test

Result: Australia/New Zealand

Horse Details

Horse Name	Sire		Dam
	Adelaide		Anantha
Sample ID	Sex		Country of Birth
QP2	Male		Australia
Voor of Dirth		Month of Pirt	
2019		September	

- \checkmark C:T horses will likely achieve their optimal performance if trained and raced as a middle distance type
- Recommend targeting 1,200m+ races as a two-year-old, and 1,400-2,199m races as an older horse
- Can breed sprint, middle distance or staying types depending on mare/sire

About the Speed Gene Test

- The Speed Gene Test examines differences in the myostatin gene to make a prediction of a horse's best race distance
- The myostatin gene is a major determinant of race distance aptitude because it influences:
 - o Skeletal muscle growth
 - The proportion of fast twitch (glycolytic, Type IIB) muscle fibres required for short bursts of power and the proportion of slow twitch (oxidative, Type I) muscle fibre types required for stamina
- Race distance aptitude is almost entirely determined by the genetic make-up of this gene
- Test result is based on the combination of "C" and "T" genetic variants, one inherited from each parent









Two-year-old C:T horses perform best at 1400m+

- At 1000-1199m, C:T horses under-performed, winning 18% of the prize money available, despite providing 34% of the runners at this distance
- At 1200-1399m, C:T horses under-performed, winning 37% of the prize money available, despite providing 40% of the runners at this distance
- At 1400m+, C:T horses over-performed, winning 61% of the prize money available, providing 48% of the runners at this distance

THREE-YEAR-OLDS AND OLDER



Use this result for Young Stock Breeding

Flat races, Australia & New Zealand, 2010-2018 (Sample size = 715)

Three-year-old and older C:T horses perform best at 1400m-2599m

- At 1000-1399m, C:T horses under-performed, winning 24% of the prize money available, despite providing 34% of the runners at this distance
- At 1400-2599m, C:T horses over-performed, winning 68% of the prize money available, despite providing 60% of the runners at this distance
- At 2600m+, C:T horses under-performed, winning 59% of the prize money available, despite providing 61 % of the runners at this distance

Strike Rate and % Winners

- A higher percentage of C:T horses won at 1400-2399m races relative to C:C and T:T horses
- C:T horses recorded a higher strike rate than C:C and T:T horses in races at 1400-2399m, outperforming T:T horses at shorter distances