SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

현장을 이해하고, 필요한 솔루션을 연결합니다.

산업안전 · 추락방지 시스템
산업용 소재 · 건축자재
제품 제안부터 공급·시공·설치·교육까지



COMPANY INFORMATION

스냅슛 (SNAPSHOOT)

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TECHNICAL DOCUMENTS

인증서 · 데이터시트 · 기술자료

제품의 규격과 성능, 인증 및 적용 조건을 확인하기 위한 자료입니다.

ABOUT SNAPSHOOT

제품 공급을 넘어, 현장에 맞는 해결책으로

스냅슛은 산업현장의 작업 환경과 요구 조건을 바탕으로
적합한 제품과 시스템을 제안합니다. 현장 실사를 통해 설치 조건을 확인하고,
공급부터 시공·설치 및 사용 교육까지 필요한 과정을 함께합니다.

추락방지 시스템

안전대부착설비 · 수평·수직 라이프라인
레일 시스템 · 리지드 포스트

밀폐공간 진입·구조 솔루션

데빗암 · 삼각대 · 구조용 윈치
윈치 안전블록 · 구조장비

산업안전 보호구

전신형 안전대 · 랜야드 · 안전블록
작업 환경에 맞춘 개인보호구

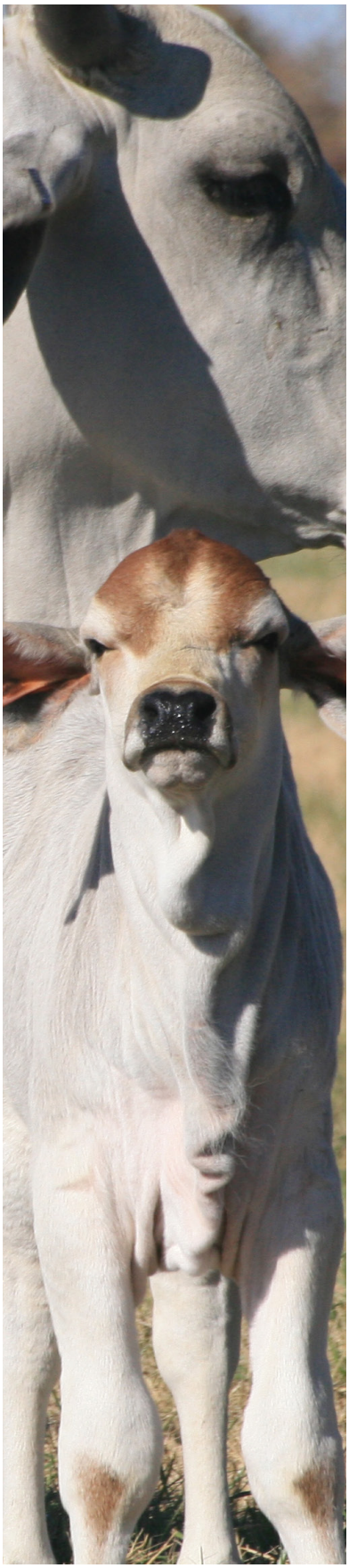
산업용 소재·건축자재

산업용 테이프 · 접착제 · 기능성 소재
구조용 스크류 · 목조건축 자재

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홈페이지 바로가기 →
문서 라이브러리 바로가기 →
시공사례 바로가기 →
문의하기 →

본 페이지는 스냅슛의 자료 제공 안내용 표지입니다. 첨부된 인증서 및 기술자료의 발행 주체, 인증 대상과 적용 범위는 해당 원문을 기준으로 확인해 주세요.



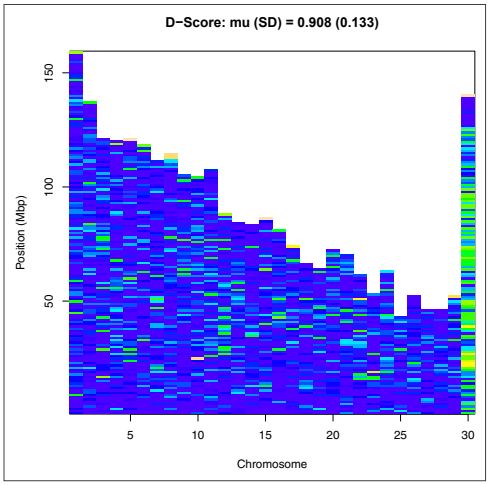
GGP

GeneSeek® Genomic Profiler™ indicus

Utilise the power of the next generation of bovine genotyping technologies. The updated GGP *indicus* leverages NEOGEN®'s leading SNP selection process to precisely choose the most informative SNPs for your genomic selection or research goals. These advantages plus a host of causative mutations, make the GGP *indicus* an instant leader in its class.

- The GGP *indicus* chip consists of 54,791 SNPs that are optimally selected using the Select SNP software package that features MOLO optimization (Wu et al., 2016). The chip also includes *Bos indicus* specific SNPs for parentage testing, and causative assays for genetic diseases.
- The highly optimised 50K SNP panel features:
  - Better coverage — Average SNP spacing of 48.9 kb across all autosomal chromosomes
  - Even distribution — Average D score of 0.91 and U score of 0.72
  - Appropriate overlap with multiple SNP panels to allow for accurate imputation
    - Also includes novel SNP content more pertinent to *Bos indicus* influenced breeds
  - Astounding MAF —– Average minor allele frequency (MAF) across eight breeds of 0.30
  - Imputation accuracy (to the Illumina BovineHD) averages greater than 98% for all evaluated breeds

Figure 1. GGP *indicus* SNP Density Map



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Table 1. Distribution of minor allele frequencies (MAF) by breed

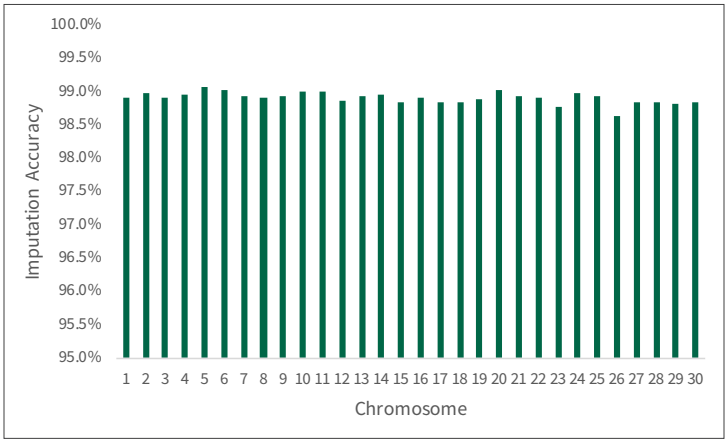
It is inherent that as the number of markers in a panel increases, there are less SNP available with high MAF in a breed. Therefore, the average MAF will decrease when compared to its predecessor, GGP *indicus* 35K, but rest assured the best SNP content was selected for addition to NEOGEN's SNP panel. This is illustrated in Table 1, which shows that the highest proportion of markers still have MAF between 0.30–0.50.

Proportion of SNPs by MAF Group					
Breed	0.00–0.04	0.05–0.19	0.20–0.29	0.30–0.50	Average MAF by Breed
Brahman	0.11	0.17	0.12	0.61	0.31
Guzera	0.17	0.16	0.14	0.53	0.27
Gyr	0.17	0.16	0.13	0.53	0.28
Nelore	0.16	0.16	0.12	0.57	0.29
Droughtmaster	0.05	0.13	0.18	0.64	0.33
Santa Gertrudis	0.08	0.22	0.19	0.52	0.29
Tropical Composite	0.05	0.21	0.18	0.56	0.31
Other *indicus*	0.10	0.15	0.15	0.59	0.30

Table 2. The number of common SNPs between GGP *indicus* and several commonly utilized commercial SNP panels

Product	Number of Common SNPs
GGP Bovine 100K	18,817
Illumina Bovine SNP50 v3	10,952
GGP HDi	20,328
Illumina BovineHD	54,131

Figure 2. Imputation accuracies, by chromosome, from GGP *indicus* to the Illumina BovineHD in Nelore cattle



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