

## Genetic Tests Available in Pigs

*Dr. Kim Davenport, Assistant Professor, Washington State University*

Testing locations for the US include UC Davis, Neogen, and through the National Swine Registry (additional options in Europe). Discounted prices may be available through breed associations (such as Kunekune).

### Test Overview

Test	UC Davis	Neogen	National Swine Registry
Parentage	\$44 (microsatellites)	Embedded in bundled test	Not offered
Single gene	Not offered	\$40 with report for 10 markers, \$35 raw genotypes (GGP Porcine 50K)	\$25, Hal-1843 only
Breed Composition and Color	Not offered	Not offered	\$70-210 depending on time of sampling

### Single-Gene Test Breakdown

Marker ID	Trait Association	Favorable or Unfavorable?
RN	Rendement Napole, low pH and water holding capacity of pork	Unfavorable
Halothane	Porcine Stress Syndrome (PSS) and pale, soft, and exudative (PSE) pork	Unfavorable
F4 E. coli	Susceptibility to E. coli diarrhea	Unfavorable
MC4R	Growth rate, leanness, feed conversion	Favorable
CCKAR	Growth rate	Favorable
PRKAG3	Meat quality, high pH and favorable color	Favorable
CAST249	Meat quality, tenderness and juiciness	Favorable
CAST638	Meat quality, tenderness and juiciness	Favorable
ESR	Litter size	Favorable
EPOR	Litter size and uterine capacity	Favorable

