

Genome Polymorphism Scan

The Genome Polymorphism Scan (GPS) is the analysis of a set of DNA sequence variants (polymorphisms) which are distributed throughout the entire genome (see Weber 2005). GPS is by far the most powerful, affordable genetic test available today. It covers all genes in all people. Among other applications, the GPS allows detection of chromosomal and segmental aneusomies, uniparental disomy, autozygosity, and modest-high levels of inbreeding. The test also permits confirmation of close biological relationships, propagation of genetic information throughout kindreds, approximate determination of geoancestry, and prediction of disease causing mutations that a patient may carry. The test report contains extensive interpretation and analysis of the resulting genotypes.

Our current GPS test involves the typing of 400 short tandem repeat (also called microsatellite) polymorphisms (STRPs) located on all 24 chromosomes (see List of Polymorphisms). These polymorphisms have been validated by genome scans in tens of thousands of individuals from all over the world. We plan in the near future to expand our GPS test to include up to 600 additional STRPs and 1000 diallelic insertion/deletion polymorphisms.

SPECIMEN REQUIREMENTS

Collect a minimum of 2 ml of whole blood in EDTA (purple top tube) or ACD (yellow top tube).

Whole blood collected in Na Heparin is acceptable but not preferred.

Ship whole blood specimens at ambient temperature. Do not freeze blood tube.

During hot summer months, include a frozen ice pack in the shipping container. Do not allow the ice pack to come in direct contact with the specimen tubes. In winter, include an unfrozen ice pack to help moderate extremes in temperature.

The DNA in whole blood is stable for at least 48 hours at 21°C, 5-7 days at 4°C.

CPT Codes and Cost

Genome Polymorphism Scan **\$390.00**

Molec Diag, Ascertainment	83890	x1	\$30.00
Molec Diag, Isolation	83891	x1	\$30.00
Molecular Diag, Amplif	83898	x400 @\$0.20	\$80.00
Molecular Diag, Separation	83894	x400 @\$0.30	\$120.00
Interpretation And Report	83912	x1	\$130.00

Accreditation Info. CLIA ID #: 52D1027685 (expires 1/18/07) (CAP#: 7185561, AU ID: 1407125 expires 12/20/06)

Ship to:

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