## Familial Mutation Testing: Targeted Sequencing

**Test Code:** KM  
**Turnaround time:** 2 weeks  
**CPT Codes:** 81403 x1

### Condition Description

<table>
<thead>
<tr>
<th>Indications</th>
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<tbody>
<tr>
<td>Custom DNA sequencing testing is available for any previously characterized DNA variation in a family. This service can also confirm DNA variations identified in a research laboratory. Such confirmation allows release of research findings to the patient as well as prenatal diagnosis and carrier testing for other at-risk family members. To perform this assay we require details of the genetic variation in the family and a DNA sample from a previously tested individual as a positive control. Please call (404) 778-8500 to discuss this testing prior to sample collection.</td>
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### Methodology

The region of DNA surrounding the mutation is amplified by PCR and sequenced in both the forward and reverse direction.

### Detection

Over 99% of previously identified mutations will be detected by this assay.

### Specimen Requirements

Submit only 1 of the following specimen types

* Preferred specimen type: Whole Blood

**Type: Whole Blood**

Specimen Requirements:

In EDTA (purple top) or ACD (yellow top) tube:
- Infants (2 years): 3-5 ml  
- Older Children & Adults: 5-10 ml

Specimen Collection and Shipping: Refrigerate until time of shipment. Ship sample within 5 days of collection at room temperature with overnight delivery.

**Type: Saliva**

Specimen Requirements:

Oragené™ Saliva Collection kit (available through EGL) used according to manufacturer instructions.

Specimen Collection and Shipping: Store sample at room temperature. Ship sample within 5 days of collection at room temperature with overnight delivery.

### Special Instructions

Please call (404) 778-8500 to discuss testing and to obtain prices prior to sample collection.