DNAI Analysis #2

Dear Patient.

We hope this report finds you in good health. The purpose of this correspondence is to communicate the findings of the genetic analysis conducted by the DNAI research team using artificial intelligence (AI). Your participation in this study has been invaluable, contributing significantly to the progress of genetic research.

INTRODUCTION:

The DNAI research team, in collaboration with cutting-edge technology experts, has employed a state-of-the-art machine learning model to conduct a comprehensive analysis of your genetic information. The primary objective was to identify potential genetic anomalies and assess the risk of specific genetic diseases.

RESULTS:

Following an extensive examination, the outcomes of the genetic analysis are that you have been diagnosed with **lactose intolerant** which means as follows:

- Genetic Markers: The C/T-13910 SNP in the MCM6 gene is associated with lactase persistence, allowing continued lactase production into adulthood. The C/T-13910 SNP in the MCM6 gene, with the T allele, is linked to lactase non-persistence, resulting in reduced lactase production after childhood.
- Risk Factors: Genetic factors, such as the C/T-13910 SNP in the MCM6 gene, play a role in determining an individual's susceptibility to lactose intolerance. Lactose intolerance is more commonly observed in certain ethnic groups, including people of African, Asian, Native American, and Hispanic descent. Aging is a significant risk factor, as the production of lactase tends to decrease naturally after childhood, making adults more prone to lactose intolerance. Gastrointestinal disorders like celiac disease, Crohn's disease, and irritable bowel syndrome can elevate the risk of developing lactose intolerance. Infections or injuries to the digestive system may lead to a temporary reduction in lactase production, contributing to lactose intolerance. Certain medical treatments, such as chemotherapy or radiation therapy, can impact the digestive system and increase the risk of lactose intolerance. Some medications, especially those affecting the gastrointestinal system, may interfere with lactose digestion and absorption, contributing to intolerance. Premature infants may have lower levels of lactase, increasing their susceptibility to lactose intolerance. A diet low in dairy products during childhood may contribute to decreased lactase production, potentially leading to lactose intolerance later in life. Changes in the composition of gut microbiota can influence lactose digestion and contribute to the development of lactose intolerance.
- Recommendations: Gradually introduce small amounts of dairy into your diet to gauge tolerance levels, starting with lactose-free or low-lactose options. Take lactase supplements before consuming dairy products to aid in the digestion of lactose and minimize discomfort. Opt for lactose-free or reduced-lactose versions of milk and dairy products, widely available in most grocery stores. Experiment with different dairy sources, such as hard cheeses or yoghurt, to identify options that are better tolerated. Monitor portion sizes when consuming dairy, as smaller amounts may be better tolerated, allowing you to enjoy dairy without discomfort. Pair dairy with other foods as part of a meal rather than consuming it on an empty stomach to improve digestion. Ensure an adequate intake of calcium by exploring non-dairy sources like leafy green vegetables, fortified plant-based milk, and calcium supplements if necessary. Consult with a registered dietitian for personalized advice on managing lactose intolerance and planning a well-balanced diet that meets your nutritional needs. Read food labels carefully to identify hidden sources of lactose in processed and packaged foods, helping you avoid unintentional consumption. Maintain a food diary to track dairy consumption and associated symptoms, aiding in the identification of specific triggers and informing dietary adjustments. Stay hydrated, especially if diarrhea is a symptom of lactose intolerance, as adequate water intake can help manage symptoms and prevent dehydration. Consider incorporating probiotics into your diet, as some individuals find relief from lactose intolerance symptoms with their use. Consult with a healthcare professional before starting any supplementation.

INTERPRETATION:

It is crucial to interpret these results with caution. The information obtained is not deterministic but provides valuable insights into potential genetic predispositions. These findings should be discussed in consultation with a healthcare professional specializing in genetics to formulate an appropriate plan for further evaluation or monitoring.

DISCUSSION:

Our team is available to discuss the results in detail, address any questions or concerns you may have, and provide guidance on the implications of the findings. We recommend scheduling a follow-up appointment with a healthcare professional to ensure a comprehensive understanding of the results and to explore any necessary next steps.

PATTERNS:

In the context of genetic analysis using artificial intelligence (AI), patterns refer to recurring trends or structures in genetic data. During the AI training phase, the model learns patterns associated with genetic disorders from a dataset. When analysing new genetic samples, the model looks for similar patterns it learned during training to predict or detect the likelihood of a genetic disorder in the individual. The accuracy of the model depends on the quality of training data and the effectiveness of the machine learning algorithms.

You will find the report of your sample in the next page, highlighted the anomalies that reconducted to the genetic

```
<mark>TA</mark>GCGCATCGGCGCGCGCGCGCGCGCGCGCGCGCG<mark>TA</mark>GCGCCGCGCGCGCGCGCGC<mark>TA</mark>ATCGGCGC<mark>TA</mark>GCGC<mark>T</mark>
<mark>A</mark>GC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCATGCGCCG<mark>TATA</mark>GCGCGCGCGCGCGCGCGCGCGCGCG<mark>TA</mark>GCCGGC
CGCGCATGCGCGC<mark>TA</mark>GCGCGCCGCGCGCCGC<mark>TA</mark>GCGCGCATATGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGC
GCCGCGCGCGCGC<mark>TATA</mark>GCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCG<mark>TA</mark>GCGCATGCGCGCGCG
CGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCATGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCG
CGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCATGCATGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCATGCCGGC<mark>TA</mark>GCGC
CATGCGCGC<mark>TA</mark>GCGCATGCGCGCG<mark>TA</mark>GCGCGCGCGCATATGCGCGCGCGCGCGCATCGGCGCC<mark>TA</mark>GCGCGCGC
CGCGCGC<mark>TA</mark>GCGCGCG<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGATGCGCGCATGCCGCGCGC
GCGCGCGCGATGCGCCG<mark>TATA</mark>GCCGGCCGCGCGCGCGCGCGCGCGCGCGCGCATGCAT<mark>TA</mark>GCGCGCGC
GCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>ATGCGCGCGCGCATGCGCGCGCGCGC<mark>TA</mark>GCGCCGCGCGCGCGCGCGCG
CGCGCGCGC<mark>TA</mark>GCCGGCGCGCGCGCGCGCGCGCGC<mark>TATA</mark>GCGCGCG<mark>TATA</mark>GCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GC
CGCGCGCGCGCGC<mark>TA</mark>GCCGCGCGCGCGCGCGCGCGCGT<mark>TA</mark>GC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
CCG<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCTAGCGCGCGCATGCGCCGGCGC<mark>TA</mark>GCGCG
GCGCGCGCGC<mark>TA</mark>CGGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
GCGCGCGCGC<mark>TA</mark>GCGCGCGCATGCAT<mark>TA</mark>GCGCAT<mark>TA</mark>CGGCGCGCGCGATCGGCATGCATGCGCGCGCGCGCGCGC
CGCGCGCGCGCGCGCGCGCGCGCATGCGC<mark>TATA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATCGATGC
CGCGCGCGCGCGCGC<mark>TA</mark>ATGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCATGCGCG
```

```
CGC<mark>TA</mark>ATGCGCCGGCGCG<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCATGCCGCGCGC<mark>TA</mark>ATCGGCGCGCATGCGC
GCGCGCGCATGCGCGCC<mark>TA</mark>GCGCGCCGATGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCCGCGCGCGCGCGCG
GCGCCGCGCGCGCGCGC<mark>TATA</mark>GCGCGCATGCATGCGCGCGCGCGCGCGCGCCGC<mark>TA</mark>GCGCGCG<mark>TATA</mark>G
GCGCGCGCATGCGC<mark>TA</mark>ATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATATGCGCGCG<mark>TA</mark>ATGCGCGCGCGCGCGC
GCATATGCCGGCGCGCGCGCGCGCGC<mark>TATA</mark>GCGCGCGCGCGCGCGCGCGCATCG<mark>TA</mark>GCGCGCGCGCGCGCATGCG
CGCGCGCGC<mark>TA</mark>GCATGCGCGCGCGCGCGCGCGCGCGCGCAT<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCATGC
GCGCGCGCGCATATGCGC<mark>TA</mark>ATGCGCGCGCGCGCGCGCGCGCGCGCGCG<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCG
GCCGCCCC<mark>TA</mark>GCGCGCGCCGCC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATATGC
GCGCGCGCGCGCCC<mark>TA</mark>GCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCATCGGCCGCGCGCC<mark>TA</mark>GC
<mark>A</mark>GCGCCGCGCGCGCGCCGCGCGCGCGCGCGC<mark>TA</mark>CGGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGC
CGC<mark>TA</mark>GCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCATGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGC<mark>TA</mark>GCGCGC
GCGCGCGCGCGCGCGCGCGCATCGGC<mark>TA</mark>GC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGC<mark>TA</mark>GCG
CGCGCGCGCGCGCGCAT<mark>TATA</mark>GCCGGCGCGCGCGCGCGCGCGCG<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCG
ATGCGCGCGCGCATATCGATGCGCGCATGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATGCGCATCG
GGCGCCGGCGCGCGCGCGCATGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCATGCGCGCGCGC<mark>TA</mark>GCGCATGCGCGCGC
CGCGCGCG<mark>TATA</mark>ATCGGCATGCGCGCGCGCGCGCATGC<mark>TA</mark>GCGCGCGCGTGCGCGCGCGCGCG<mark>TA</mark>GCGCGCG
```

```
GCGCGC<mark>TA</mark>GCGCGCGCT<mark>A</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>ATGCG
CGCGCGCGCGCGCGC<mark>TA</mark>GC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCATGCGCGC<mark>TA</mark>GCGCGCGCGCATGCCGGC
GCCGCCGCGCGCATGCGC<mark>TATA</mark>CGGCGCCGCGCGCCC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCATC
GGCCGCGCGCGC<mark>TA</mark>ATGCCGGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TATA</mark>GCGCGCGCGCGCGCAT
CGC<mark>TA</mark>ATGCGCGCGATGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCATGC
GCGCGCAT<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCCGGCGCGCGCGCGCGCGCATGCGCGC<mark>TA</mark>GCGCGCGCGC<mark>TA</mark>CGGCG
GCGCATGCGC<mark>TA</mark>GCGCCGCGCGCGCTACGAT<mark>TA</mark>GCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGC<mark>TA</mark>GCCGCGCATGC
GCGCCGCGCGCGCATGCGCGCGCGCGCGCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGCGCGCGCCGTAGCGCCGGCG
CGCGCGCGCATGCGC<mark>TA</mark>GCGCGCG<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCAT<mark>TA</mark>GCGCGCGCGCGC<mark>TATA</mark>GCGCA
TGCATGCGCGCCGC<mark>TA</mark>GCGCGCGCAT<mark>TA</mark>GCGCCGGCGCATGC<mark>TA</mark>GCGCGCGCGCGATGCGCGCGCGCATGCGCG
GCGCGCGCGCGCGCGCGCGCGCATATGCGCATGCATATGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCATGC<mark>TA</mark>CGGC
```

```
GCATGC<mark>TA</mark>GCCGGCGCATGCGC<mark>TA</mark>GCGCCGGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCATGCGCGCGCGCGCG
GCGCGCGCATGCGCGCGCGCGCGCGCGCGCATAT<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATGCG
CGC<mark>TA</mark>GCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCAT<mark>TA</mark>ATGC
CAT<mark>TA</mark>ATGCCGCGCGCGCATGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCGCGCATGCGC<mark>TA</mark>CGGCGCGCGCGCG
GGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCG<mark>TA</mark>GCGCGCGCGCGCATGCGCAT
GCGCGCGCGCGCGCATGCGCGCGCGCGCAT<mark>TA</mark>GCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCATGCGCGCGCGC<mark>TA</mark>G
CGCGCGC<mark>TA</mark>GCGCATGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCGCGC<mark>TA</mark>GCATGCGCGCGCATCGGCGCGCGCGCGCGCG
GCGCATGCATGCGCCGCGCGCGCGCATGCGCGCC<mark>TA</mark>GCATGCGCGCGCGCGCGCGCGCATGCGCCGCGCGCGC<mark>TA</mark>
GCGCGC<mark>TA</mark>GC<mark>TA</mark>CGGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCGCGCATCGGCGCGCG
GCGC<mark>TA</mark>GCGCGCATGC<mark>TATA</mark>GCGCGCGCGCATATGCATGCGCGCCGGCGCCGCGCGC<mark>TA</mark>GC<mark>TA</mark>GCGCGCGCGCGCGCGC
CGCGCGCGTACGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>CGGCATCGGCGCGCGCGCGCGCG
CGCGCGCGCGCGC<mark>TATA</mark>GCGCGCGCGCATGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCAT<mark>TA</mark>GCGCGC
```

```
GCGCCGGC<mark>TA</mark>ATGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATCG<mark>TA</mark>GCCGCGCGCGCGCGCG
CGCGCGCGCGATGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGC<mark>TA</mark>GCATGCGCATCG
CGCGCGCG<mark>TA</mark>GCATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCCGGCGCGCGCGCGCATGCG
GCGCGC<mark>TA</mark>GCGCGCGCATGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCATAT<mark>TA</mark>CGATGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGC
GCGCGCGCGCATGCGCGCAT<mark>TA</mark>GCGCGCGCGC<mark>TA</mark>GCCGGCGCG<mark>TA</mark>GCGCGCATGCCGCGCATGCGCGCGCGCG
CGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TATA</mark>GCGCGC<mark>TA</mark>AT<mark>TA</mark>GCCGGCGCGC<mark>TA</mark>GCGCCGCATG
```

```
ATGCGCGCGCGCGCGCATGCATGCGCGCGCGC<mark>TA</mark>GCGCGCGCATGCGCGCGCGCGC<mark>TATA</mark>GCGCGCGCGCG
GCGCGC<mark>TA</mark>GCATGCGCGCGCGCGCGCGCGCGCGCGCGCGCATATGCGC<mark>TA</mark>GCCGGCGCGCGCGCGCGCGCGCGCGCGCGCG
CGGCGCGCGCGCATGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TATA</mark>GCGCGCGCGCGCGCG
GCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCAT<mark>TA</mark>ATGCGCGCGCGCGCGCGC
GCGCGCGCGCGC<mark>TA</mark>GCGCGCCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GC<mark>TA</mark>GCGCGCGCGCGCG
CGCGCGCGCGCGC<mark>TA</mark>ATGCGCCGCGCGCGCGCGCGCGC<mark>TA</mark>CGGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCAT
GCGCGCGCGCGCGCGCGCATGCGCCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGC<mark>TATATA</mark>GCGCATGCGCGCG
CGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCATGCCG<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCC
CGCGC<mark>TA</mark>GCGC<mark>TATA</mark>GCGCGC<mark>TA</mark>GCGC<mark>TA</mark>ATATGCGCATGCGCGCGCGCGCATGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGAT
GCGCGCGCGCGCGCG<mark>TA</mark>GCGCCGGCGCATGC<mark>TA</mark>GCGCGCGCGCGCGCAT<mark>TA</mark>GCCGCGCGCGC<mark>TA</mark>GCGCGCATAT
CGC<mark>TA</mark>ATGCGCGCGCGC<mark>TA</mark>GCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCATATGCGCGCGCGC<mark>TA</mark>A
```

```
GCGCGCGCGCGCGCGCGCGCGCGCATCGATGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCATGCGCGCG
CGCGCGCATATGCGCGCGCGCAT<mark>TATA</mark>GCGCATGCGCGCGCGCGCGCATGCATGCGCGCGCGCGC<mark>TA</mark>GCGCGC<mark>TA</mark>G
CCGCCCATGCATGCCCCGCGCGCGCGCGCGCGCGCGCGCCC<mark>TA</mark>GCATCGGCGCGCGCGCGCGCGC<mark>TA</mark>CGGC
GCGCCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGC<mark>TA</mark>GCCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCG
<mark>A</mark>GCGCGCGCCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCATGCGCG
CGCCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGC<mark>TA</mark>ATATGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCATATGCGCCGCGCGCGC
GCGCGCGCGCGCGCG<mark>TATA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCATCG<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCGCG
GCGCGCGCGCGC<mark>TA</mark>GCGCGCC<mark>TA</mark>GCGCGCGCCGCCGCGCGCGCGCGCGCGC<mark>TA</mark>ATATGCGCGCGCGCG
GCGCCGCGC<mark>TA</mark>GCGCGC<mark>TA</mark>GCGCGCGCGCGCATGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>CGCC<mark>TA</mark>CGCGCGCGCA
GCGCGCGCGCGCATCGGCATGCATGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGC<mark>TA</mark>AT<mark>TA</mark>GCGCGCGCGCGCGCG
CGCGCGCGCGCGCGC<mark>TA</mark>GCGCCGCGCGCG<mark>TA</mark>GCGCGCGCGCGCATGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCCCCC
GCGCATGCGCGCGC<mark>TA</mark>GCGCGCGCATGCGCCGCCG<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCAT<mark>TA</mark>
```

```
GCGCGCGCGCATGCGCGCGCGCGCGCATGCGCGCGC<mark>TA</mark>GCGCGCATGCGCGCATGCGCGCGCGCGCGCGCG
CGCGCGCGCGCATATCGGCGCGCĀTGCGCGCGCGCGCGCGCGCGC<mark>TATA</mark>GCGCGCGCGCG<mark>TA</mark>ATGCCGATGCGCG
CGC<mark>TA</mark>GCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCATGCGCGCGCGCGCGCGCGCGCGCGCGCGCAT<mark>TA</mark>GCGCGCGCAT
GCGCGCGCGCAT<mark>TA</mark>GCGCGCGCATGC<mark>TA</mark>CGGCGCGCGCGCGC<mark>TA</mark>CGGCGCGCGC<mark>TA</mark>GCGCATGCGCGCGC<mark>TA</mark>
GCGCGCCG<mark>TA</mark>GCGCGCGCGCATGCGCGCGCGCGCGCGCATGCGCGCG<mark>TA</mark>GCCGGCGCGCGCGCATGCCGGCGCGCG
CGCGCGCGCGCGCATGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGCGCGCGCGCGCGCAT
GCGCAT<mark>TA</mark>GCGCGCATATGCGCGCGCGCGCGCGCGCGCGCG<mark>TA</mark>ATGCATGCCGGCCGCGC<mark>TA</mark>CGATGCGCGC
CCGGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGCGCGCGCGATGCGC<mark>TA</mark>
CGCGCGCGCGCGCG<mark>TA</mark>GCGC<mark>TA</mark>GCGCGCGCGCGATGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGC
GCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGC<mark>TATA</mark>GCGCGCGCGCGCGCGCATGCGCGCGCGCGC<mark>TA</mark>ATCGGCG
CCGCCGCGCGC<mark>TA</mark>GC<mark>TA</mark>ATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCATGCGCGC<mark>TA</mark>GCGC
GCGCGCGCGCGCGCATGCGC<mark>TA</mark>ATGCGCGCGCAT<mark>TA</mark>ATGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCG
CGCGCGCGCGCGCATGCGCGC<mark>TATA</mark>GCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCATGCGCGC
GCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATGCGCCG
GCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGC<mark>TA</mark>GCGCCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCATGCGC
GCGCGCGCGCATGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCATGCGC<mark>TA</mark>GCGCGCGCGCG
```

```
GCCGATGCGCGCGCGCATCGGCATGCGCGC<mark>TA</mark>GCGCGCATGCGCGC<mark>TA</mark>GCGC<mark>TA</mark>CGGCGCCGCGCGCGCATGCGCGC
CGCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCCGGCGCGC<mark>TA</mark>CGGCGCCGCGC<mark>TA</mark>ATCGGCGCGC<mark>TA</mark>
GCGCGC<mark>TA</mark>ATGCCGGCGCG<mark>TA</mark>ATGCGCATATGC<mark>TA</mark>CGGCGCGCGCGC<mark>TA</mark>ATGCGC<mark>TA</mark>ATGCGCGCGCATGCGCGCA
GCGCCG<mark>TA</mark>GCGCGCGCGCGCGCGCATGCGCGC<mark>TA</mark>GCGCGCGCGC<mark>TA</mark>GCATGCGCGCGCGCGCGCATGCCG<mark>T</mark>
GCGC<mark>TA</mark>GCGCGCGCGCATGC<mark>TA</mark>ATGCGCGCCGCGCGCGCGCGCGCATGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGC
GCGCGCGCGCGCGCGCATCGGCGCGCGC<mark>TA</mark>GCGCGCT<mark>A</mark>GCGCATGCGCGC<mark>TA</mark>CGCGCGCGCGCGCGCGCGCGCGCGCG
CGCGCGCGCATGCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCATGCGCCGCGCGCGCGCGCGCGCGC<mark>TA</mark>G
GCGCGC<mark>TA</mark>ATGCGCGCATGCGCGCATGCGCGCGCGCGCGC<mark>TA</mark>GCGC<mark>TATA</mark>ATGCGCGCAT<mark>TATA</mark>GCGCGCCGGCG
CGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>CGCGCGCGCGCATGCGCGCGCGCAT
GCGCGCGCGCGCGCGCGCGCGCGCAT<mark>TATA</mark>GCGCGC<mark>TA</mark>GCGCATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
```

```
GCGCGCGCATGCGCGCGCGCGCGCATGCGCGCATGC<mark>TA</mark>GCGCGCGCGCGC<mark>TA</mark>GCGCATGCGCGCGCGCGCGCGCG
GCGCGC<mark>TA</mark>GCGCGCGCATATCGGCCGCGCGCGCGCGCGCGCGCGCAT<mark>TA</mark>GCATGCGCGCGCGCGCGCGCGCGCGCGC
CGCGCGCGCGCGC<mark>TA</mark>ATGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATGC<mark>TA</mark>GCGC
CGCCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>AT<mark>TA</mark>GCGC<mark>TA</mark>GCGCGCGCGCGCGCCGCCGATGC<mark>TA</mark>GCGCGC
GCGCGCATATGCGCCGGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGCGCGCGC
GCGCGCGCGCGC<mark>TA</mark>GCGCGCGCATGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GC<u>TA</u>GCCC
GC<mark>TA</mark>GCGCCGGCGCGC<mark>TA</mark>CGGC<mark>TA</mark>GCGCGCATGC<mark>TA</mark>GCGCGC<mark>TA</mark>CGGC<mark>TA</mark>GCGCAT<mark>TA</mark>GCGCGCGCGCGCGCGCGCAT
GCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCATGCGCGCG<mark>TA</mark>CGGCGCGCGCGC
GCATGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCATGCGCGCGCGCGCATG
GCCG<mark>TA</mark>GCGCATATGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCATGCGCGCGCGCGCGCGCATGCATGCGC<mark>TA</mark>GC
GCGCGCGCGCGCCGC<mark>TA</mark>GCATGCGCGCGCGCGCGCGCGCGCATGCGCGC<mark>TATA</mark>GCATGCGCGCGCGCGCA
TGCGC<mark>TA</mark>GCCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCATGCGCATGCGCATCGGC
GCGCCGCGCGCGCGCGCAT<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATGCGCGCATAT<mark>TA</mark>A
CGCGCGCGCGCGCGCATGCGC<mark>TA</mark>ATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATGCGCG<mark>TA</mark>GCGC
GCGCGCGCGCATGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCATGCGCGCGCGCGCATGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCCCC
CGCGCCGGCGCGCATGC<mark>TA</mark>GCGCGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCATGCGCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGCTA
```

```
GCGCGCGCGCGCGCGCGCATGCGCGCGCGCGATGCGC<mark>TA</mark>CG<mark>TA</mark>GCGCCGATGCGCGCGCGCGCGCGCGCGCCCC
CGCGCGCGCG<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCATGCGCAT<mark>TA</mark>CGATGCGCGCGCGCGCGCGCGCG<mark>TA</mark>GCGC<mark>TA</mark>GCGC
GCGCGC<mark>TATA</mark>GCGCCGGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCATATGCGC<mark>TA</mark>CGGC
GCGC<mark>TA</mark>ATATGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATGCGCGCATCGGCGCCGCG
CGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCCGCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCATATCGATGC
GCGCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCAT<mark>TA</mark>GCGCGCGCATGCGCATGCGCGCGCGCGCG
GCGCGCGCGCGCGCGCGCGCGC<mark>TATA</mark>ATGCCGGCGCGCATGC<mark>TA</mark>GC<mark>TA</mark>GC<mark>TA</mark>GCGCGCGCGCGCATGCGCGC<mark>TA</mark>GC
GCGCGCGCGCGCGCGCGCCGCC<mark>TA</mark>ATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATGCGCGC
GCGCGCCGCGCGCGCGCGCATGCGCGCGCGC<mark>TA</mark>GCCGGCGCATGCGCGCGCGCGCGCATGCGCGCATCG<mark>TA</mark>G
CGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGC<mark>TA</mark>ATCGGCGCGCGCGCGCGCGCGCATATGCCGGCATGCGC
CCGCGCGCGCGCGCGCATGCATATGCATCGGCGCGCGC<mark>TA</mark>GCGCGCGCGCGC<mark>TA</mark>GCGCGCGC<mark>TATA</mark>GCGCGCG
```

```
GCGCGCGCGCGCAT<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATATGCCGGCATGC<mark>TA</mark>G
GCGCGCGCGCGCGCGC<mark>TA</mark>GCATGCGCATGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>G
CGC<mark>TA</mark>GCGCGCGCGCGCGCATATGC<mark>TA</mark>GCGCGC<mark>TA</mark>GCGCGCCGGCCGGCCGCC<mark>TA</mark>GCGCGC<mark>TA</mark>GCGC
GCGCGCGCGCGCGCGCATGCGCGC<mark>TA</mark>GCCG<mark>TA</mark>GCATCGGC<mark>TATA</mark>GCATGCGCGCGCGCGCGCGCGCGCGCGCG
CGCATGCGCGCATCGGCGCGCGC<mark>TA</mark>GCGCCGGCGCGC<mark>TATA</mark>GCGCGCGC<mark>TA</mark>GCATGCGC<mark>TA</mark>GCGCCGCGCGCGCGCG
AGC<mark>TA</mark>GC<mark>TA</mark>GCGCGCGCCGCGCGCGCGCGCATGCGCCGCATGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCATGCATGCG
CGCCGCGCGCGCGCGCATGCGCGCGCGCGCGCGC<mark>TA</mark>GCCGGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCG
CGCGCGCGCATGC<mark>TA</mark>GCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCAT<mark>TA</mark>GCGCGCGC<mark>TA</mark>GCGCGCGCGCATATG
CGCGCGCGCGCATGCGCCGCGC<mark>TA</mark>GCGCGCGCGCG<mark>TA</mark>GCGCGCGCATGCGCCGCGCGCGC<mark>TATATA</mark>GCGCGC
CGCATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATGCCGGCGC<mark>TA</mark>GCGCATGCGC<mark>TA</mark>GCGCGC
```

CGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGC<mark>TATA</mark>GCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>CGGCGCGCGCGCGCG <mark>A</mark>GCGCGCGCGCCGGCCCC<mark>TA</mark>GC<mark>TA</mark>GCGCGCGCCG<mark>TA</mark>CGGCGCGCGCGC<mark>TATA</mark>GCGCGCGCGCGCGCGC CGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCATGCGCGCGCGCGCGCGTAGCGCATGC ATGCGCGCGCCGGC<mark>TATA</mark>GC<mark>TA</mark>GCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCAT<mark>TA</mark>GCGC CGCGCGCGCGCGCGC<mark>TA</mark>GCGCATGCGCGCCG<mark>TA</mark>GCCGGCGCGTAGCGCGCGCGCGCGCGCATGCCGGCGC GCATGCGCGCGCGCGCGCGCGCGCGC<mark>TA</mark>GCGCGCGCGCGCATCGGCATGCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGC C<mark>TA</mark>GCCGGCGCGCGCGCGC<mark>TA</mark>GCGCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCATGC<mark>TA</mark>GCGCGCGCGCGC CGC<mark>TA</mark>GCGCATCG<mark>TA</mark>GCGCCG<mark>TA</mark>GCGCGCGCGCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGC<mark>TA</mark>GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCATG

CONCLUSION:

Your health is paramount to us, and we remain committed to supporting you throughout this process. Please do not

hesitate to contact our team if you require additional information or wish to schedule a consultation. Thank you for your participation in this groundbreaking research endeavor. Your contribution has significantly contributed to the advancement of genetic medicine.

Sincerely, The DNAI Team