

# DNA Cluster Analysis Template

## *Validating Family Relationships Through Genetic Evidence*

This template organizes DNA match data to validate documentary research. Use it to identify genetic clusters, analyze shared matches, and correlate DNA evidence with paper trail findings. DNA serves as corroborating evidence, not primary proof.

### Test Subject Information

<b>Test Taker Name:</b>	
<b>Testing Platform(s):</b>	
<b>Kit Number(s):</b>	
<b>Target Ancestral Line:</b>	
<b>Research Question:</b>	

### DNA Match Recording

Record matches relevant to your research question. Use initials for privacy protection.

Match ID	cM	Segments	Tree Info	Known MRCA	Notes

## Cluster Identification

Group matches who share DNA with each other (shared matches indicate common ancestor):

### Cluster 1

<b>Cluster Name:</b>	
<b>Hypothesized MRCA:</b>	
<b>Matches in Cluster:</b>	

Shared Match Matrix (mark X where matches share DNA with each other):

Match	A	B	C	D
A				
B				
C				
D				

### Cluster 2

<b>Cluster Name:</b>				
<b>Hypothesized MRCA:</b>				
<b>Matches in Cluster:</b>				
Match	A	B	C	D
A				
B				
C				
D				

### Cluster 3

<b>Cluster Name:</b>	
<b>Hypothesized MRCA:</b>	
<b>Matches in Cluster:</b>	

## Cross-Cluster Analysis

Do matches from different clusters share DNA? This can indicate interconnected families:

Cluster A	Cluster B	Shared Matches?	Interpretation
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	

## DNA-Documentary Correlation

How does the DNA evidence support or conflict with paper trail research?

DNA Finding	Documentary Evidence	Correlation
		<input type="checkbox"/> Supports <input type="checkbox"/> Conflicts
		<input type="checkbox"/> Supports <input type="checkbox"/> Conflicts
		<input type="checkbox"/> Supports <input type="checkbox"/> Conflicts
		<input type="checkbox"/> Supports <input type="checkbox"/> Conflicts

## Relationship Predictions

Match	cM	Predicted Rel.	Documented Rel.	Match?
				<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N

## Analysis Summary

<b>Total Matches Analyzed:</b>	
<b>Clusters Identified:</b>	
<b>Documentary Hypotheses Supported:</b>	
<b>Documentary Hypotheses Challenged:</b>	
<b>New Research Directions:</b>	

## DNA Evidence Reliability

Criterion	Yes	No
Multiple matches support the same hypothesis	<input type="checkbox"/>	<input type="checkbox"/>
Shared match patterns are consistent	<input type="checkbox"/>	<input type="checkbox"/>
cM ranges align with predicted relationships	<input type="checkbox"/>	<input type="checkbox"/>
DNA evidence correlates with documentary research	<input type="checkbox"/>	<input type="checkbox"/>
No significant contradictions identified	<input type="checkbox"/>	<input type="checkbox"/>

<b>Overall DNA Confidence:</b>	
<b>Recommended Next Steps:</b>	

*Template from The Brooklyn Mat Maker Case Study | Storyline Genealogy*  
DNA analysis validated Kenny family connections through Thomas Kenny cluster matching