

Student Score = 71

Figure 1 DNA sequences

DNA Sequence on Chromosome 15

Siblings	First Allele	Second Allele	Age
Michael	AGACTATCA	AGACTACCA	18
Jennifer	AGACTACCA	AGACTACCA	12
Bob	AGACTACCA	AGACTACCA	7
Sarah	AGACTATCA	AGACTATCA	Died – age 3

UCU GCU AGU UCU GAU AGU
ser ala ser ser asp ser

2. The genetic screening for Tay Sachs provided the evidence in figures 1 and 2.
 - a. Circle the specific mutations in the DNA sequence (figure 1) that is responsible for Sarah's disorder.