**Subcloning Homework Assignment II** *This assignment is done independently. Use any resource you wish but do NOT work with another student.*

**Subcloning Human Malate Dehydrogenase1 (Accession# NM-001199111) into pET28b.** You have a cDNA library from a human brain cDNA pool. Using a cloning technique of your choice, describe how you will subclone the coding sequence of MDH1 into pET28b. You should describe this to place the clone with a his tag on the N terminus of MDH1 AND again with the his tag from the pET28b vector on the C terminus of MDH1.

The sequence can be found here (<https://www.ncbi.nlm.nih.gov/nuccore/NM_001199111>). Don’t forget to look for the CDS when determining the coding region. Your cDNA library (look up in our book to understand the definition of cDNA and a cDNA library) has just the coding region of MDH1 (and of course other expressed genes).