SITE DIRECTED MUTAGENESIS

The Redox Molecular Signaling Core utilizes a quick change kit to mutate specific base pairs within DNA plasmids. The presence of the specific mutation is confirmed by DNA sequencing prior to returning the mutant plasmid to the investigator. To initiate site-directed mutagenesis, contact the Redox Molecular Signaling core facility at RedoxMolSignalCore@lsuhsc.edu and schedule a meeting with Core Leaders to discuss the project timeline and deliverables.

To be provided by investigator:

- Completed Work Order Form, indicating the species of the DNA insert and the specific amino acid(s) to be mutated, brought to the meeting with Core Leaders.
- Plasmid containing the DNA to be mutated. At least 100 ng of DNA should be provided.
- Vector map if available

To be generated by the core:

- The core facility will return at least 250 μg of isolated DNA from the mutant plasmid in 500 μl of Tris buffer.
- DNA sequencing data verifying the mutation.
- Bacterial glycerol stock containing the plasmid for future plasmid isolation.

Timeline: 3 to 4 weeks