An Alternative Protein Splicing Mechanism for Ala1 Inteins

**Mechanism for N-terminal Ala1**

Direct nucleophilic attack by Cys+1 when Ala1 is naturally occurring

**Standard Mechanism**

N-X acyl shift

Asn or Gln cyclization

(X represents the sulfur or oxygen atom in Cys, Ser or Thr side chains)

*InBase at www.neb.com*