Collection of FASTA sequences of selected region from database

For Each Sequence

Probes generated from Selected Sequence

For Each remaining Sequence

Target fragments from other Sequence

Determine probe and fragments that match

Make basecalls and assess if CIBSI would identify

Yes

Add to list of Sequences this sequence would detect

No

Sort Sequences by number each detects

While Sequences remain

Pick Sequence that detects most

Remove sequence from list

For Each Sequence detected

Remove sequence from list

End loop