

**BAC-associated microsatellites mapped on LG8**



**BAC-end sequences mapped on LG8**



**BACs containing the BAC-end sequences**



**Physical map contigs containing these BACs**



**Identify all available BAC-end sequences in these physical map contigs**



**BLAST against the draft catfish genome sequences (cutoff 1E-10, bit scores  $\geq 400$ )**



**BLAST against ENSEMBL zebrafish protein database to identify genes**



**Compare gene locations and order among catfish, zebrafish, medaka, stickleback, and Tetraodon**