## Additional File 3, Table 1. ACE Data Import and Export.

Data are submitted into ACE organized by the multi-well plates they are in and exported as a collection of individual clones.

Imported / exported data structures		
Data structure	Data element	Element description
Reference sequence	Sequence text	Reference sequence text
description	CDS start	Position of CDS start
	CDS stop	Position of CDS stop
	Sequence	Collection of public available annotations
	annotations	(GI, Accession Number,)
Clone plate description	Project name	Project name. Project defined as set of plates
	Cloning strategy	Description of cloning strategy
	description	1 0 07
	Plate name	Plate name
	List of clones	Collection of clones sitting on the plate
Clone description	Clone ID	Unique clone ID
	Plate position	Well position for the clone
	Link to reference	Link to reference sequence information,
	sequence	several isolates can be cloned for the
		same reference sequence
Exported data structures		
Data structure	Data element	Element description
Clone description*	Clone sequence	Clone sequence
	Clone analysis status	Clone status (Accepted / Rejected)
Clone Sequence	Sequence text	Clone sequence text with confidence score for each base
	CDS Start	Position of CDS start on sequence
	CDS stop	Position of CDS stop on sequence
	Collection of	Collection of all discrepancies defined for
	discrepancies	the clone
Discrepancy	Position	Position of discrepancy on clone sequence and CDS position
	Length	Length of discrepancy in bases
	Discrepancy type	Discrepancy type
	(see Table 2) Confidence score	Confidence score (see Discrepancy Finder
	Confidence score	for how score is calculated)
		tor now score is calculated)

\* New data types are added to the clone description in ACE.