

organism	
♦ <u>organism_id</u> INT	[PK] AUTO_INCREMENT
◦ domain	TEXT
◦ kingdom	TEXT
◦ phylum	TEXT
◦ class	TEXT
◦ order	TEXT
◦ family	TEXT
• genus	TEXT
• species	TEXT

PK = Primary Key
 FK = Foreign Key

chromosome	
♦ <u>chromosome_id</u> INT	[PK] AUTO_INCREMENT
• chromosome	VARCHAR(255)
• organism_id	INT [FK organism]

identifier	
♦ <u>identifier_id</u> INT	[PK] AUTO_INCREMENT
• name	VARCHAR(255)
• gene_id	INT [FK gene]

gene	
♦ <u>gene_id</u> INT	[PK] AUTO_INCREMENT
• seq	LONGTEXT
• chromosome_id	INT [FK chromosome]

microarray	
♦ <u>array_id</u> INT	[PK] AUTO_INCREMENT
• quality	FLOAT
• incub_temp	FLOAT

oligonucleotide	
♦ <u>oligo_id</u> INT	[PK] AUTO_INCREMENT
• gc	FLOAT
• melt_temp	FLOAT
• unique	BOOL
• repeats	BOOL
• hairpins	BOOL
• gene_id	INT [FK gene]

probe	
♦ <u>probe_id</u> INT	[PK] AUTO_INCREMENT
• oligo_id	INT [FK oligonucleotide]
• array_id	INT [FK microarray]