



## Chicken oligo annotation / Version 5

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### Oligo-set reference :

manufacturer : eadgene

name : ARK-Genomics G. gallus 20K v1.0

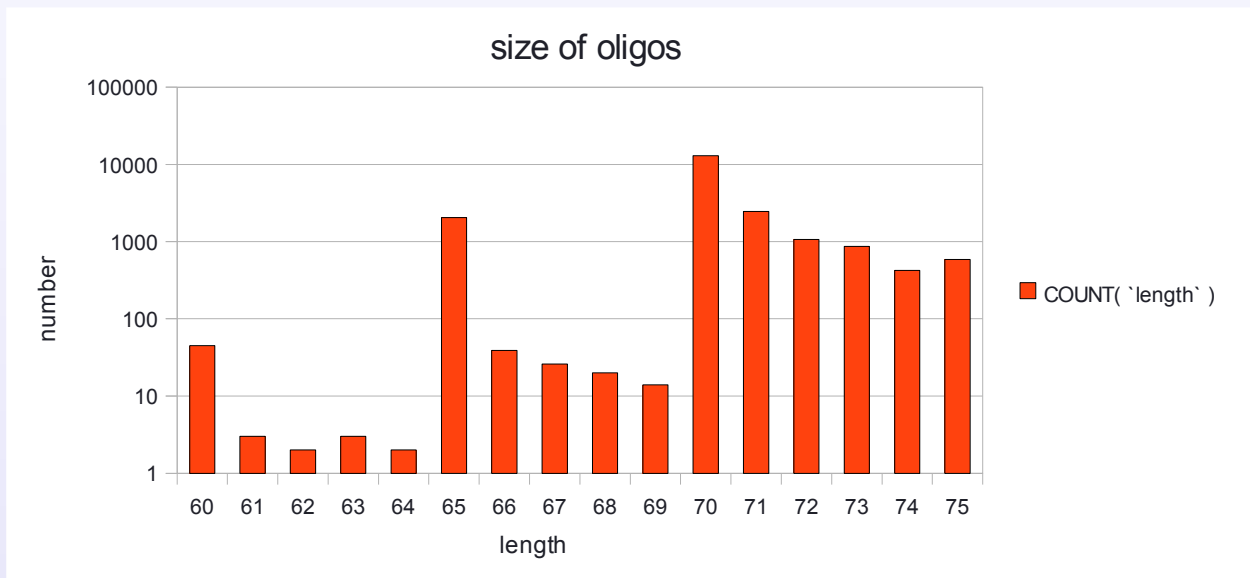
release date : 2005

format : 20K

Organism: chicken

Number of Oligo : 20 460

## Length of oligos.



## Sequences on which oligos have been designed:

Gene predictions from Ensembl and TIGR, together with full-length cDNAs from the BBSRC UMIST ChickEST database (<http://chick.umist.ac.uk/>) and chicken bursal EST sequences from Jean-Marie Buerstedde's DT40 database. Sequences from these resources were aligned together and oligos were designed against regions in common to more than one dataset. Oligos were then designed using OligoArray2.0.

ID GEO:

GPL5480 / GPL6049

ID ArrayExpress:

## Annotation information

Genome assembly :

WASHUC2, May 2006

Gene build

Ensembl, Aug 2006

Ensembl version

56, October 2009





## Specificity analysis

The oligos have been aligned against the transcripts of the species or reference species. The alignment matches are shared between : hit = more than 85% of identity of the oligo length and noise = no hit but more than 30 bp without mismatch : Zhili He's & all 2005

### oligo classification

#### No hit > 75%

-No noise	4296
-1 noise <30 bp	108 (*)
-1 noise >30 bp	195 (*)
-Many noise	40

#### 1 hit > 75%

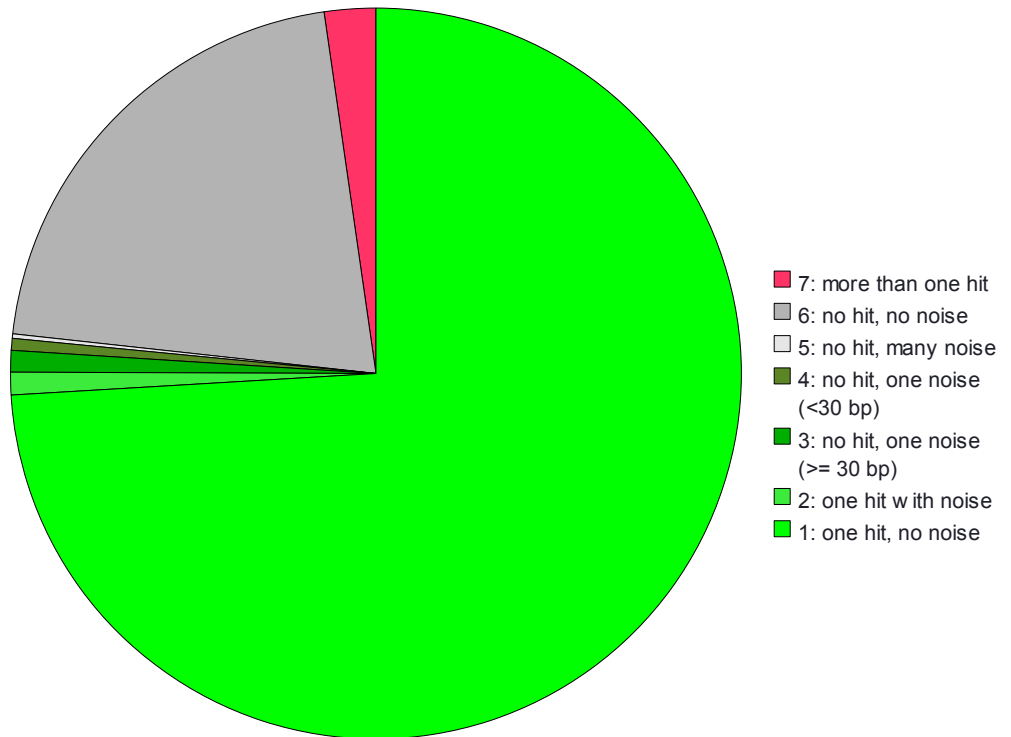
-No noise	15152 (*)
-With noise	205 (*)

#### More than 1 hit

-With & without noise 464

(\*): can be annotated.

Total: 15 660



## Gene coverage

The oligos which can be linked to a gene correspond to 12 595 different genes.

## Probes annotated with orthologous Ensembl genes and Gene Ontology

Human	12 433	GO Molecular Function :	11 470
Mouse	12 378	GO Biological Process :	9 656
Rat	11 566	GO Cellular Component :	9 091

## Probes having external reference link

Uniprot/SWISSPROT	12 679
UniGene	13 524
RefSeq_peptide	12 886
HGNC	12 261

