



Chicken oligo annotation /

Feb 10th, 2009 / sigenasupport@jouy.inra.fr

Oligo-Set name :
Design date :
Organism:
Number of Oligo : 42034

Length of oligos. 60bp

Sequences on which oligos have been designed:

ID GEO:

GPL4993

ID ArrayExpress:

Annotation information

Genome assembly :	WASHUC2, May 2006
Gene build	Ensembl, Aug 2006
Ensembl version	52, Dec 2008

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 20 bp without mismatch : Zhili He's & all 2005

oligo classification

No hit > 75%

-No noise 29 096
 -1 noise <30 bp 496 (*)
 -1 noise >30 bp 311 (*)
 -Many noise 297

1 hit > 75%

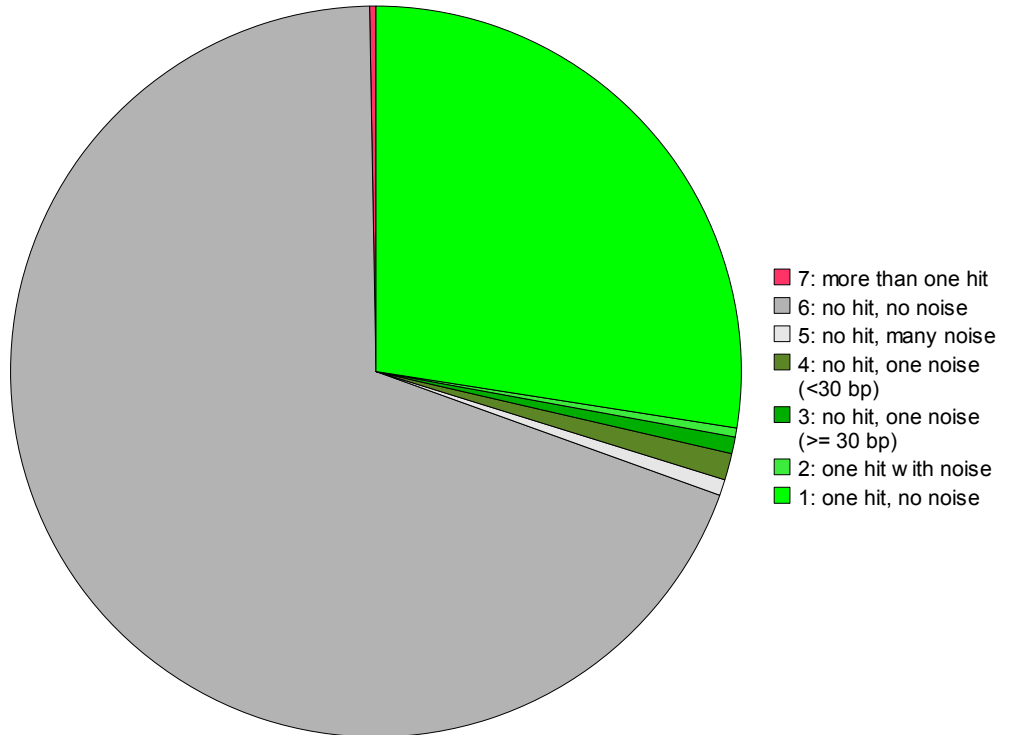
-No noise 11 549 (*)
 -With noise 167 (*)

More than 1 hit

-With & without noise 118

(*): can be annotated.

Total: 12 523



Gene coverage

The oligos which can be linked to a gene correspond to 9 860 different genes.

Probes annotated with orthologous Ensembl genes and Gene Ontology

Human: 9492
 Mouse: 9444
 Rat : 8610

GO Molecular Function : 5125
 GO Biological Process : 4278
 GO Cellular Component : 4442

Total nb of oligo	genome	contigs (Siganae pgg5)	unigene
42034			
nb oligo with 1 hit >85% or a max block >=18 bp:	39894	41650	
nb oligo with 1 or more hit > 85%:	30002	40275	26732

Analyse of the 29 096 oligo with no hit at all:

hit :	contig (sig ppg5)	genome	gene
nb oligo	27 804	19 660	7 439

exon →
406

Exon overlap,
multi hit opposite strand,
or noise opposite strand