



Readme	
<p>The Microarrays Inc. <i>Rat Array</i> v1.01 contains 29,431 total probe features comprised of 26,962 rat probes and 2,469 control probes. The rat probes are based on the Ensembl rat v19.3b.2 database (http://www.ensembl.org/) which spans 22,159 genes, 28,545 transcripts, and 183,320 exons all derived from the Rat Genome Project. Additional information about the rat probes is available in three additional worksheets which contain associated transcripts, human orthologs, and mouse orthologs. The control probes represent a comprehensive set of positive, negative, and doping controls and are based on a compilation of the doping controls of Illumina's MEEBO (Mouse Exonic Evidence Based Oligonucleotide) probe set plus additional positive mouse controls from various researchers.</p>	
Worksheets	Descriptions
Gene list	Contains the complete gene list for all probes on the array including "non-control" rat probes, and "control probes" which include positive rat controls, negative controls, and doping control probes.
Complete transcript list	Contains the complete list of all associated transcripts for each non-control rat probe. It represents an expanded transcript list compared to the gene list, which provides only a single representative transcript.
Human Orthologs	Contains a list of human orthologs for each non-control rat probe.
Mouse Orthologs	Contains a list of mouse orthologs for each non-control rat probe.
Columns	Descriptions
oligo type:	
Non-control	Regular "non-control" rat probe oligos are one of 6 types: EC, EP, EI, TC, TP, or TI.
EC	Exon Common oligo: the oligo is fully contained in one exon and the oligo represents all transcripts of the gene
EP	Exon Partial common oligo: the oligo is fully contained in one exon and the oligo represents a subset of transcripts of the gene
EI	Exon Individual oligo : The oligo is fully contained in one exon and the oligo represents only one transcript of the gene
TC	Transcript Common oligo: the oligo is contained in multiple exons and the oligo represents all transcripts of the gene
TP	Transcript Partial common oligo: the oligo is contained in multiple exons and the oligo represents a subset of transcripts of the gene
TI	Transcript Individual oligo : The oligo is contained in multiple exons and the oligo represents only one transcript of the gene
Control	Control oligos are one of 9 types: AF, AM, BS, CN, EI, MJ, NS, or ST. These designations are described below.
AF	Probes for doping controls based on Affymetrix control probes.
AM	Probes for doping controls based on Ambion <i>Array Control</i> probes.
BS	Probes for doping controls derived from <i>B. subtilis</i>
DM	Dye marker for subarray identification.
CN	Negative control spots based on randomized 70mer sequences
EI	Positive rat control spots of Exon Individual oligos: The oligo is fully contained in one exon and the oligo represents only one transcript of the gene
MJ	Probes for doping controls derived from <i>M. jannaschii</i>
NS	Positive rat control spots, type not specified
ST	Probes for doping controls based on Stratagene control probes
Oligo ID	
Migration ID	
Gene ID	
Transcript Count	Total number of transcripts of the gene

Representative Transcript ID	For common or partial common oligo types, one transcript is chosen randomly as a representative transcript. The id of this representative transcript is the representative_transcript_id. As the individual oligo type represent only one transcript, this transcript is the representative transcript.
Annotation Type	
Annotation	
Unigene ID	
GB accession	Accession from EMBL and GenBank
Gene Symbol	
Notes	Descriptions and other notations