

Sample Data:

```
> head(mm.gi)
Object of class Genome_intervals_stranded
6 base intervals and 0 inter-base intervals(*):
chr1 + [20669091, 20669163]
chr1 + [20672850, 20672968]
chr1 + [23279108, 23279178]
chr1 + [23298540, 23298623]
chr1 + [53753289, 53753411]
chr1 - [74253128, 74253194]
annotation:
  seq_name strand inter_base source type score phase
1 chr1 + FALSE miRBase15 miRNA . .
2 chr1 + FALSE miRBase15 miRNA . .
3 chr1 + FALSE miRBase15 miRNA . .
4 chr1 + FALSE miRBase15 miRNA . .
5 chr1 + FALSE miRBase15 miRNA . .
6 chr1 - FALSE miRBase15 miRNA . .
      gffAttributes ID class
1 ACC="MI0000249"; ID="mmu-mir-206"; Alias="mmu-mir-206" "mmu-mir-206" miRNA
2 ACC="MI0000821"; ID="mmu-mir-133b"; Alias="mmu-mir-133b" "mmu-mir-133b" miRNA
3 ACC="MI0000144"; ID="mmu-mir-30a"; Alias="mmu-mir-30a" "mmu-mir-30a" miRNA
4 ACC="MI0000548"; ID="mmu-mir-30c-2"; Alias="mmu-mir-30c-2" "mmu-mir-30c-2" miRNA
5 ACC="MI0014703"; ID="mmu-mir-1937b-5"; Alias="mmu-mir-1937b-5" "mmu-mir-1937b-5" miRNA
6 ACC="MI0009917"; ID="mmu-mir-1928"; Alias="mmu-mir-1928" "mmu-mir-1928" miRNA
>
```

My data pt 1:

```
> head(Ei.gff_bad)
Object of class Genome_intervals_stranded
6 base intervals and 0 inter-base intervals(*):
psuIEINV_3 - [9861, 15293]
psuIEINV_3 + [15839, 16210]
psuIEINV_3 + [16969, 17271]
psuIEINV_3 + [18747, 20117]
psuIEINV_3 + [20423, 20997]
psuIEINV_3 + [21403, 21858]
annotation:
  seq_name strand inter_base source type score phase
1 psuIEINV_3 - FALSE ApiDB mRNA NA NA
2 psuIEINV_3 + FALSE ApiDB mRNA NA NA
3 psuIEINV_3 + FALSE ApiDB mRNA NA NA
4 psuIEINV_3 + FALSE ApiDB mRNA NA NA
5 psuIEINV_3 + FALSE ApiDB mRNA NA NA
6 psuIEINV_3 + FALSE ApiDB mRNA NA NA
      gffAttributes
1 ID=EIN_000210-1;name=EIN_000210-1;description=protein+serine%2Fthreonine+kinase%2C+putative;size=5433;Parent=psuIEIN_000210;Ontology_term=GO:0006468,GO:0004672,GO:0004674,GO:0004713,GO:0005524;Dbxref=ApiDB:EIN_000210,EC:2.7.11.25,taxon:370355
2 ID=EIN_000220-1;name=EIN_000220-1;description=hypothetical+protein;size=372;Parent=psuIEIN_000220;Ontology_term=GO:0005524,GO:0016887;Dbxref=ApiDB:EIN_000220,taxon:370355
3 ID=EIN_000230-1;name=EIN_000230-1;description=hypothetical+protein;size=303;Parent=psuIEIN_000230;Dbxref=ApiDB:EIN_000230,taxon:370355
4 ID=EIN_000360-1;name=EIN_000360-1;description=hypothetical+protein;size=1371;Parent=psuIEIN_000360;Dbxref=ApiDB:EIN_000360,taxon:370355
5 ID=EIN_000370-1;name=EIN_000370-1;description=hypothetical+protein;size=575;Parent=psuIEIN_000370;Dbxref=ApiDB:EIN_000370,taxon:370355
6 ID=EIN_000380-1;name=EIN_000380-1;description=hypothetical+protein;size=456;Parent=psuIEIN_000380;Dbxref=ApiDB:EIN_000380,taxon:370355
>
```

My data pt. 2

```
> head(Ei.gff)
Object of class Genome_intervals_stranded
6 base intervals and 0 inter-base intervals(*):
psuIEINV_3 - [9861, 15293]
psuIEINV_3 + [15839, 16210]
psuIEINV_3 + [16969, 17271]
psuIEINV_3 + [18747, 20117]
psuIEINV_3 + [20423, 20997]
psuIEINV_3 + [21403, 21858]
annotation:
  seq_name strand inter_base source type score phase
1 psuIEINV_3 - FALSE ApiDB mRNA NA NA
2 psuIEINV_3 + FALSE ApiDB mRNA NA NA
3 psuIEINV_3 + FALSE ApiDB mRNA NA NA
4 psuIEINV_3 + FALSE ApiDB mRNA NA NA
5 psuIEINV_3 + FALSE ApiDB mRNA NA NA
6 psuIEINV_3 + FALSE ApiDB mRNA NA NA
      gffAttributes
1 ID=EIN_000210-1;name=EIN_000210-1;description=protein+serine%2Fthreonine+kinase%2C+putative;size=5433;Parent=psuIEIN_000210;Ontology_term=GO:0006468,GO:0004672,GO:0004674,GO:0004713,GO:0005524;Dbxref=ApiDB:EIN_000210,EC:2.7.11.25,taxon:370355
2 ID=EIN_000220-1;name=EIN_000220-1;description=hypothetical+protein;size=372;Parent=psuIEIN_000220;Ontology_term=GO:0005524,GO:0016887;Dbxref=ApiDB:EIN_000220,taxon:370355
3 ID=EIN_000230-1;name=EIN_000230-1;description=hypothetical+protein;size=303;Parent=psuIEIN_000230;Dbxref=ApiDB:EIN_000230,taxon:370355
4 ID=EIN_000360-1;name=EIN_000360-1;description=hypothetical+protein;size=1371;Parent=psuIEIN_000360;Dbxref=ApiDB:EIN_000360,taxon:370355
```

EIN_000360;Dbxref=ApiDB:EIN_000360,taxon:370355

5

EIN_000370;Dbxref=ApiDB:EIN_000370,taxon:370355

6

EIN_000380;Dbxref=ApiDB:EIN_000380,taxon:370355
family class

1 EIN_000210-1 mRNA

2 EIN_000220-1 mRNA

3 EIN_000230-1 mRNA

4 EIN_000360-1 mRNA

5 EIN_000370-1 mRNA

6 EIN_000380-1 mRNA

ID=EIN_000370-1;name=EIN_000370-1;description=hypothetical+protein;size=575;Parent=psul

ID=EIN_000380-1;name=EIN_000380-1;description=hypothetical+protein;size=456;Parent=psul