EXAMPLE ===============================================================================================

GRanges object with 5 ranges and 11 metadata columns:

seqnames ranges strand | V4 V5 annotation geneChr

<Rle> <IRanges> <Rle> | <character> <numeric> <character> <integer>

[1] chr5 2156742-2156776 \* | CTCF\_merge\_71009 70.0000 Distal Intergenic 5

[2] chr12 128241396-128241477 \* | CTCF\_merge\_22514 69.0833 Distal Intergenic 12

[3] chr7 29811228-29811262 \* | CTCF\_merge\_84581 70.0000 Distal Intergenic 7

[4] chr12 24075670-24075701 \* | CTCF\_merge\_18909 68.0000 Intron (uc001rfw.3/6.. 12

[5] chr18 23857660-23857693 \* | CTCF\_merge\_40461 70.0000 Intron (uc002kvs.4/6.. 18

geneStart geneEnd geneLength geneStrand geneId transcriptId distanceToTSS

<integer> <integer> <integer> <integer> <character> <character> <numeric>

[1] 1877541 1887293 9753 2 50805 uc031sir.1 -269449

[2] 128366162 128383184 17023 1 400087 uc001uhp.2 -124685

[3] 29846170 29956682 110513 1 644150 uc022aaz.1 -34908

[4] 23685231 24102637 417407 2 6660 uc001rfw.3 26936

[5] 23806409 23971650 165242 1 6875 uc002kvu.4 51251

BONE MARROW ==========================================================================================

GRanges object with 5 ranges and 23 metadata columns:

seqnames ranges strand | V4 V5 V6 V7 V8 V9

<Rle> <IRanges> <Rle> | <character> <integer> <logical> <character> <integer> <character>

[1] chr1 10280-10779 \* | + 0 <NA> Intergenic -1345 NR\_046018

[2] chr1 13253-13752 \* | + 0 <NA> TTS,(NR\_024540) 1628 NR\_046018

[3] chr1 16020-16519 \* | + 0 <NA> intron,(NR\_024540,,i.. 1167 NR\_107062

[4] chr1 29027-29526 \* | + 0 <NA> promoter-TSS,(NR\_024.. 94 NR\_024540

[5] chr1 96365-96864 \* | + 0 <NA> Intergenic 27523 NM\_001005484

V10 V11 V12 V13 V14 annotation geneChr geneStart

<integer> <character> <character> <character> <character> <character> <integer> <integer>

[1] 100287102 Hs.618434 NR\_046018 DDX11L1 DEAD/H,(Asp-Glu-Ala-.. Promoter (1-2kb) 1 11874

[2] 100287102 Hs.618434 NR\_046018 DDX11L1 DEAD/H,(Asp-Glu-Ala-.. Promoter (1-2kb) 1 11874

[3] 102465909 <NA> NR\_107062 MIR6859-2 microRNA,6859-2 Promoter (<=1kb) 1 14362

[4] 653635 Hs.446466 NR\_024540 WASH7P WAS,protein,family,h.. Promoter (<=1kb) 1 14362

[5] 79501 Hs.554500 NM\_001005484 OR4F5 olfactory,receptor,,.. Distal Intergenic 1 69091

geneEnd geneLength geneStrand geneId transcriptId distanceToTSS ENSEMBL SYMBOL

<integer> <integer> <integer> <character> <character> <numeric> <character> <character>

[1] 14409 2536 1 100287102 uc001aaa.3 -1095 ENSG00000290825 DDX11L1

[2] 14409 2536 1 100287102 uc010nxr.1 1379 ENSG00000290825 DDX11L1

[3] 16765 2404 2 653635 uc009vis.3 246 <NA> WASH7P

[4] 29370 15009 2 653635 uc001aac.4 0 <NA> WASH7P

[5] 70008 918 1 79501 uc001aal.1 27274 ENSG00000186092 OR4F5

GENENAME

<character>

[1] DEAD/H-box helicase ..

[2] DEAD/H-box helicase ..

[3] WASP family homolog ..

[4] WASP family homolog ..

[5] olfactory receptor f..