| AtacAlignmentEnrichmentQualityMetric | | | |
|--|--|--------------------|------------------|
| subsampled_reads | Number of reads subsampled from the sample for calculation of all cross-correlation metrics | | |
| fri_dhs | Fraction of reads in universal DHS regions | | |
| fri_exclusion_list | Fraction of reads in regions from exclusion list | | |
| fri_prom | Fraction of reads in promoter regions | | |
| fri_enh estimated_fragment_len | Fraction of reads in enhancer regions Fragment lengthistrandshit. This is the estimated fragment lengthistrand shift for each dataset as estimated by strand shift cross-correlation analysis | | |
| corr_estimated_fragment_len | r lagine langungan kang | | |
| phantom peak | value or concession nuncion at estimated raginal metripui. | | |
| corr_phantom_peak | Unand and where a minute plantaminates plantaminates and a second s | | |
| argmin_corr | Stand shi corresponding to the minimum value of cross-correlation (mini-correlation). | | |
| min corr | Minimum cross-correlation over a sufficiently wide range of strand shifts (typically -100 bp to -3 times the expected size of DNA fragments based on sonication and size selection protocols). | | |
| NSC | Normalized strand cross-correlation = FRAGLEN_CC / MIN_CC. Ratio of strand cross-correlation at estimated fragment length to the minimum cross-correlation over all shifts. | | |
| RSC | Relative cross-correlation coefficient. Ratio of strand cross-correlation at fragment length and at read length | | |
| auc | The "area under the curve", with a maximum value of 0.5. Lower values generally indicate higher and more focal enrichment. | | |
| syn_auc | The expected area under the curve of a perfectly behaved input sample having the same mean sequencing depth of a given sample. This is useful to put the observed AUC into perspective. | | |
| x_intercept | The point (on the X-axis) at which the curve is 0. This is approximately the percentage of the genome that was not sequenced in a particular sample. | | |
| syn_x_intercept | The expected X-intercept of a perfectly behaved input sample having the same mean sequencing depth of a given sample. This is useful to put the observed X-intercept into perspective. | | |
| elbow_pt | The elbow point attempts to measure the position at which the line turns upward. In practice, this is the point at which the plotted line is furthest from the lower-left to the upper-right corner of the graph (equivalent to a perfect input sample with infinite coverage). The point returned is the position on the X-axis of this elbow point and hig | er values indicati | more enrichment. |
| syn_elbow_pt | The expected elbow point of a perfectly behaved input sample having the same mean sequencing depth of a given sample. This is useful to put the observed elbow point into perspective. | | |
| jsd | The Jensen-Shannon distance between the replicate and the control. | | |
| syn_jsd | The Jensen-Shannon distance between a given sample and a perfect input sample with the same coverage depth (i.e., the piot generated from the Poisson probability mass function with lambda equal to the mean coverage in the sample). | | |
| pct_genome_enrich diff enrich | The approximate percentage of the genome enriched in signal (e.g., bound by a transcription factor or having a certain histone modification). The differential enrichment between a given sample and that indicated by -JSDsample at the elbow point. | | |
| ch_div | Ine onerema enforment extreme a yeen sample and mat mozared opSLUsample at the eloow point. The CHANCE devence between the resolutiate and the resolutiate and the resolutiate and the resolutiate and the control. | | |
| tss_enrichment | Ine U-HWAL: avergence between the replicate and the control. Enrichtment method: Fold change of average AIAC-set galand coverage at gene TSSs relative to background bins distal (typically 2Kb away) from TSS. | | |
| | se unificant construction a second seco | | |
| AtacAlignmentQualityMetric | | | |
| total_reads | Number of total reads passing QC* | | |
| total_reads_qc_failed | Number of total reads failing QC | | |
| duplicate_reads | Number of reads with duplicates passing QC | | |
| duplicate_reads_qc_failed | Number of reads with duplicates failing QC | | |
| mapped_reads | Number of mapped reads passing QC | | |
| mapped_reads_qc_failed | Number of mapped reads failing QC | | |
| pct_mapped_reads | Percent of mapped reads passing OC | | |
| paired_reads | Number of paired reads passing QC | | |
| paired_reads_qc_failed | Number of paired reads failing QC | | |
| read1 read1 oc failed | Number of read 1 reads passing OC Number of read 1 reads passing OC | | |
| read1_qc_failed read2 | Number of reads i reads naming UL | | |
| read2_qc_failed | rutine in read: reads plassing CC Number of read: reads failing CC | | |
| properly paired reads | Insulate to respect tests samp QC Number of property parket tests samp QC | | |
| properly_paired_reads_qc_failed | Number of property particle dead public and a set of the set of th | | |
| pct_properly_paired_reads | Percent of properly paired reads passing QC | | |
| with_itself | Number of reads with both itself & mate mapped passing QC | | |
| with_itself_qc_failed | Number of reads with both itself & mate mapped failing QC | | |
| singletons | Number of singletons (unpaired reads) passing QC | | |
| singletons_qc_failed | Number of singletons (unpaired reads) failing QC | | |
| pct_singletons | Percent of singletons (unpaired reads) passing QC | | |
| diff_chroms | Number of reads with mate mapped to different chromosomes passing QC | | |
| diff_chroms_qc_failed | Number of reads with male mapped to different chromosomes failing QC | | |
| non_mito_reads | Number of non-mitochondrial reads Number of nino-chondrial reads | | |
| mito_reads frac_mito_reads | Number or minochongnia reads | | |
| frac_mild_reads | Fraction or milliontoniar eesas | | |
| frac_reads_in_nfr_qc_pass | r radio in trebs in modesoparie ner region (vrrv) Whether NFR/mon-our create passes GC | | |
| frac reads in nfr qc reason | Interest in NUMERATING PERSON PAGE | | |
| nfr over mono nuc reads | Academic manage user provide the region (NFR) to reads in mononucleosome region (Mono-Nuc). | | |
| nfr_over_mono_nuc_reads_qc_pass | Market in Netherin Netherin in Coget (Netherin International Coget (Netherin C | | |
| nfr_over_mono_nuc_reads_qc_reason | Resson for hf_over_mono_nuc_reads_qc_pass | | |
| nfr_peak_exists | Whether NFR peak exists | | |
| mono_nuc_peak_exists | Whether mononucleosome peak exists | | |
| di_nuc_peak_exists | Whether there are peaks in dimudeosome regions (DI-Nuc). | | |
| usable_fragments | Usable fragments, based on the mapped_reads value. | | |
| | | | |
| AtacLibraryQualityMetric | | | |
| unpaired_reads | Number of unpaired reads before filtering | | |
| paired_reads | Number of paired reads before duplicate filtering | | |
| unmapped_reads unpaired duplicate reads | Number of unmapped reads before duplicate filtering Number of unmapped reads before duplicate filtering Number of unmapped reads duplicate filtering | | |
| unpaired_duplicate_reads paired_duplicate_reads | Number of urpland duplicates before duplicate littlering Windber of urpland duplicates before duplicate littlering Windber of an effect duplicate littlering | | |
| paired_duplicate_reads paired_optical_duplicate_reads | Number or pared auplicates before duplicate filtering Number of pared policia duplicates before duplicate filtering | | |
| pct_duplicate_reads | rumme to pared optical bodievations before computation memory Percent of pared optical bodievations before computation memory Percent of pared optical before the computation memory and the computation of | | |
| total fragments | - control particle dependence metring | | |
| distinct_fragments | Number of distinct togenesis working | | |
| positions_with_one_read | Number of locations to which exactly one read (pair) maps | | |
| NRF | Non redundant fraction (indicates library complexity). Number of distinct unique mapping reads (i.e. after removing duplicates) / Total number of reads | | |
| PBC1 | PCR Bottlenecking coefficient 1 = M1/M_DISTINCT where M1: number of genomic locations where exactly one read maps uniquely, M_DISTINCT: number of distinct genomic locations to which some read maps uniquely | | |
| PBC2 | PCR Bottlenecking coefficient 2 (indicates library complexity) = M1/M2 where M1: number of genomic locations where only one read maps uniquely and M2: number of genomic locations where 2 reads map uniquely | | |
| | | | |
| AtacPeakEnrichmentQualityMetric | | | |
| frip | Fraction of reads in the peak file | | |
| min_size | Smallest peak width | | |
| 25_pct | 25h percentie of peak widths | | |
| 50_pct | Softp percentile of peak widths | | |
| 75_pct | 75h percentie of peak withs Largest peak withs | | |
| | Largest peak wisin | | |
| max_size mean | Mean peak width | | |

| AtacReplicationQualityMetric | | | |
|------------------------------|---|--|--|
| reproducible_peaks | Number of peaks called from one replicate or pooled replicate passing reproducibility test by comparing self-pseudo-replicates. | | |
| idr_cutoff | Irreproducible Discovery Rate (IDR) threshold used to define reproducible peaks | | |
| rescue_ratio | max(Np,Nt) / min (Np,Nt); Np: Pooled-pseudoreplicate consistent peaks (comparing two pseudoreplicates generated by subsampling pooled reads from Rep1 and Rep2); Nt: True Replicate consistent peaks (comparing true replicates Rep1 vs Rep2) | | |
| self_consistency_ratio | max(N1,N2) / min (N1,N2); N1: Replicate 1 self-consistent peaks (comparing two pseudoreplicates generated by subsampling Rep1 reads); N2: same as N1 for Rep2 | | |
| reproducibility | Reproducibility test result for this experiment (passifail) | | |