

Comparison of introns grouped into: UP-INTRONS-BOTH, UP-INTRONS-TAF2, UP-INTRONS-TAF2dIDR, DOWN-INTRONS-BOTH, DOWN-INTRONS-TAF2, DOWN-INTRONS-TAF2dIDR, CR, AS-NC, CS

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Matt version 1.3.0

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1 Infos

Visualizations of intron features for different groups of introns. Each intron occurs in exactly one gene, but might occur in several transcripts of that gene. Hence, for some features like the intron length, there is exactly one value for each intron. For other features, e.g., length of the up-stream exon(s), which could be different in different transcripts, there might be several values for each intron. Consequently, in the latter cases, the median of these value gets reported.

2 Warning: Please read this note carefully

Please keep in mind that some features might affect other features. Especially: all branch-point features get extracted from sub-sequences of introns, by standard the last 150 nt at the 3' end of each intron (if you haven't changed this) always neglecting the first 20 nt at their 5' end. If introns of one set are especially short, i.e., many are shorter than these 150 nt, then the shorter intron length might affect branch-point features. For example, there might be less branch points found in shorter introns or their distance to the 3' intron ends might be generally shorter simply because of their shorter intron length.

3 Notes for publishing results

The Matt paper: *Matt: Unix tools for alternative splicing analysis*, A. Gohr, M. Irimia, *Bioinformatics*, 2018, *bty606*, DOI: [10.1093/bioinformatics/bty606](https://doi.org/10.1093/bioinformatics/bty606)

When publishing results wrt. splice site strengths which you determined for your data using matt, please cite: *Maximum entropy modeling of short sequence motifs with applications to RNA splicing signals*, Yeo et al., 2003, DOI: [10.1089/1066527041410418](https://doi.org/10.1089/1066527041410418)

When publishing results wrt. branch point features which you determined for your data with matt, please cite: *Genome-wide association between branch point properties and alternative splicing*, Corvelo et al., 2010, DOI: [10.1371/journal.pcbi.1001016](https://doi.org/10.1371/journal.pcbi.1001016)

When publishing results with respect to the binding strength of the human Sf1 splicing factor, you might refer to where the Sf1 binding motif comes from: *Analysis of in situ pre-mRNA targets of human splicing factor SF1 reveals a function in alternative splicing*, Margherita Corioni, Nicolas Antih, Goranka Tanackovic, Mihaela Zavolan, and Angela Kramer, 2011, DOI: [10.1093/nar/gkq1042](https://doi.org/10.1093/nar/gkq1042)

The Sf1 binding motif is described in supplement, page 13, table S2: Weight matrix of the binding specificity of SF1.

4 Data sets

Input file:

ALL_INTRONS.tab

Selection criteria for defining intron groups:

UP_INTRONS_BOTH : having value UP_INTRONS_BOTH in column GROUP

UP_INTRONS_TAF2 : having value UP_INTRONS_TAF2 in column GROUP

UP_INTRONS_TAF2dIDR : having value UP_INTRONS_TAF2dIDR in column GROUP

DOWN_INTRONS_BOTH : having value DOWN_INTRONS_BOTH in column GROUP

DOWN_INTRONS_TAF2 : having value DOWN_INTRONS_TAF2 in column GROUP

DOWN_INTRONS_TAF2dIDR : having value DOWN_INTRONS_TAF2dIDR in column GROUP

CR : having value CR in column GROUP

AS_NC : having value AS_NC in column GROUP

CS : having value CS in column GROUP

Intron duplicates removal: yes

Numbers of introns per group before / after neglecting introns which were not found in gene annotation (GTF file). For the comparisons only introns which were found in the gene annotation are used. These numbers might change slightly for each feature if NAs occur.

UP_INTRONS_BOTH: 18 / 14

UP_INTRONS_TAF2: 102 / 93

UP_INTRONS_TAF2dIDR: 78 / 75

DOWN_INTRONS_BOTH: 32 / 32

DOWN_INTRONS_TAF2: 67 / 62

DOWN_INTRONS_TAF2dIDR: 73 / 68

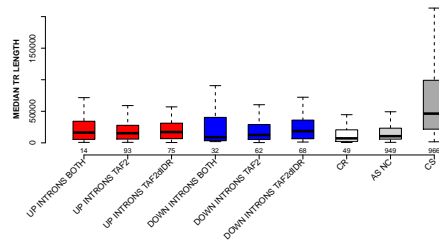
CR: 50 / 49

AS_NC: 1000 / 949

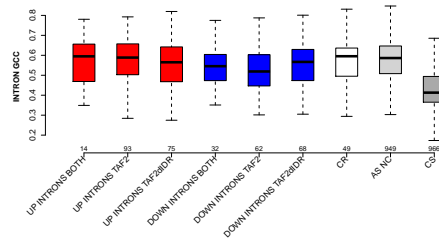
CS: 1000 / 966

5 Overview: Features with statistically significant differences (p-val ≤ 0.05)

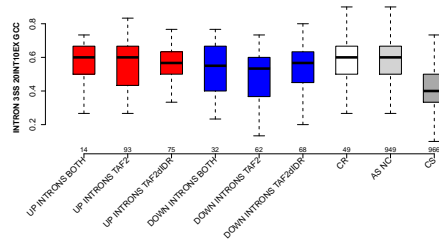
MEDIAN TR LENGTH



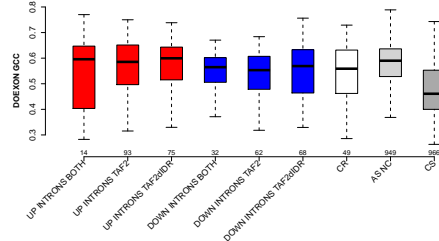
INTRON GCC



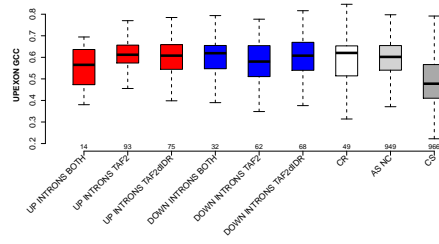
INTRON 3SS 20INT10EX GCC



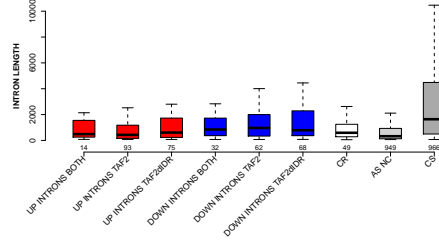
DOEXON GCC



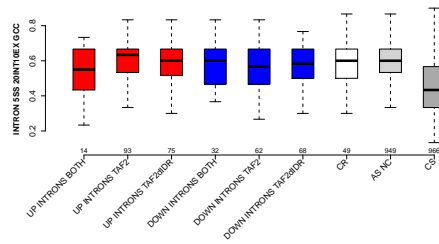
UPEXON GCC



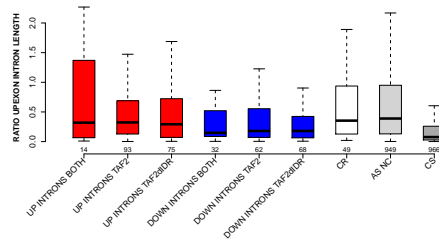
INTRON LENGTH



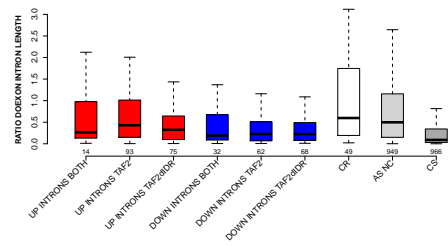
INTRON 5SS 20INT10EX GCC



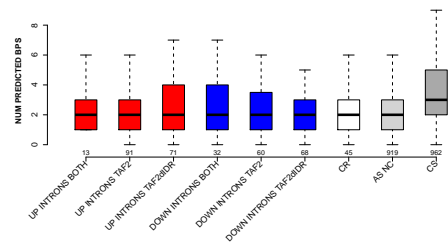
RATIO UPEXON INTRON LENGTH



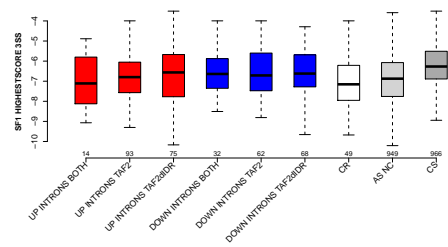
RATIO DOEXON INTRON LENGTH



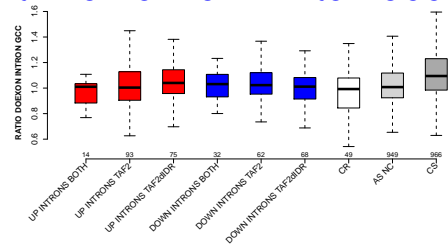
NUM PREDICTED BPS



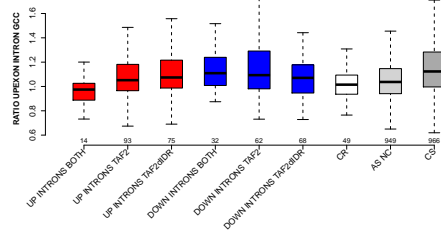
SF1 HIGHESTSCORE 3SS



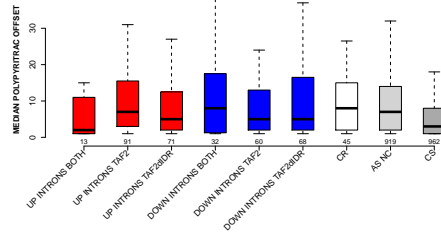
RATIO DOEXON INTRON GCC



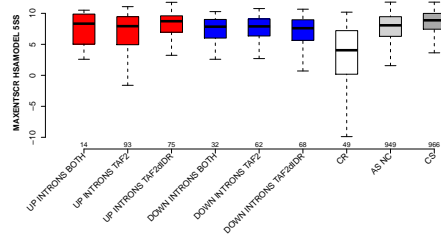
RATIO UPEXON INTRON GCC



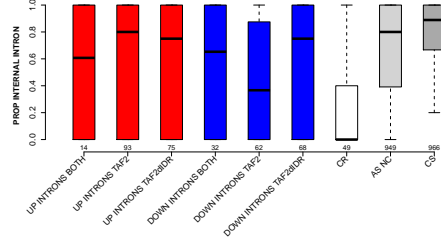
MEDIAN POLYPYRITRAC OFFSET



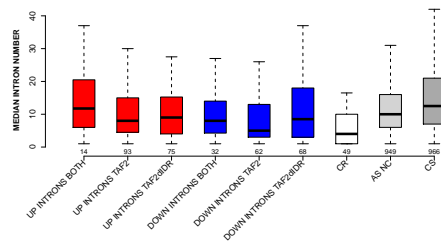
MAXENTSCR HSAMODEL 5SS



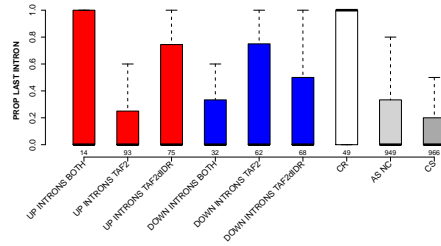
PROP INTERNAL INTRON



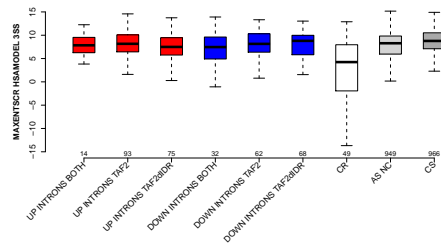
MEDIAN INTRON NUMBER



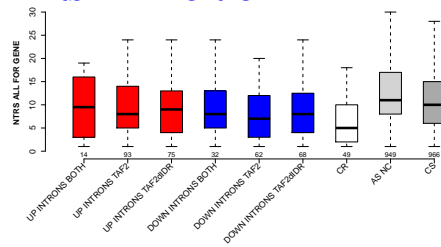
PROP LAST INTRON



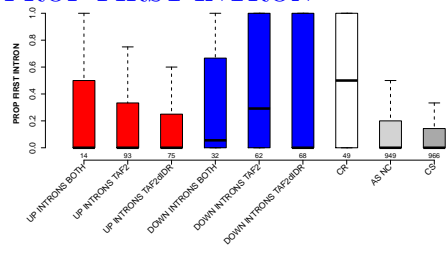
MAXENTSCR HSAMODEL 3SS



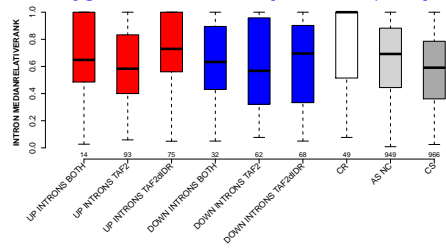
NTRS ALL FOR GENE



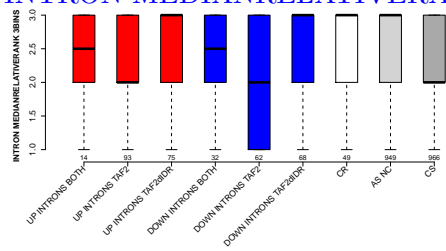
PROP FIRST INTRON



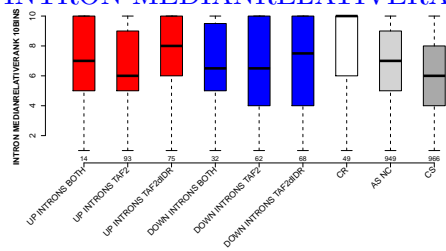
INTRON MEDIANRELATIVERANK



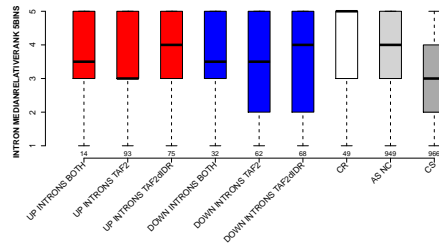
INTRON MEDIANRELATIVERANK 3BINS



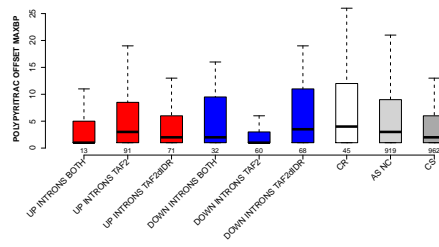
INTRON MEDIANRELATIVERANK 10BINS



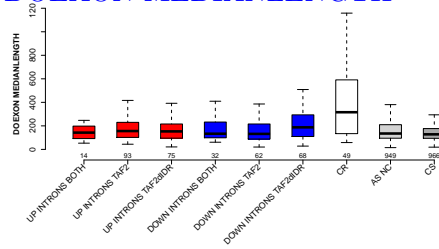
INTRON MEDIANRELATIVERANK 5BINS



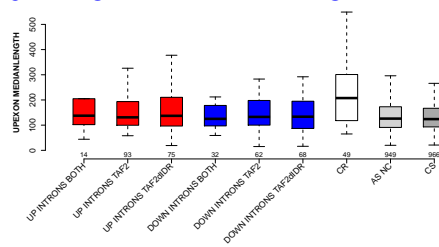
POLYPYRITRAC OFFSET MAXBP



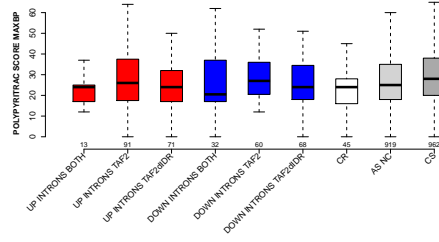
DOEXON MEDIANLENGTH



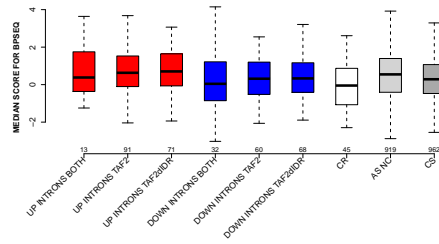
UPEXON MEDIANLENGTH



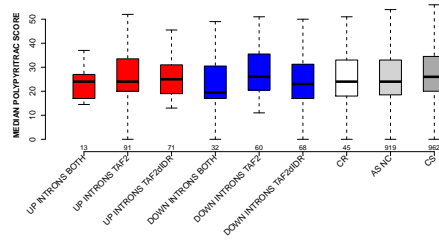
POLYPYRITRAC SCORE MAXBP



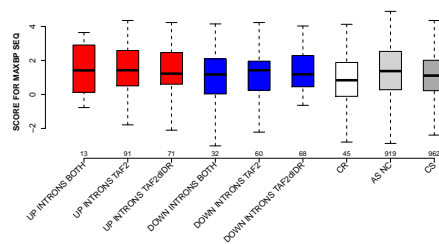
MEDIAN SCORE FOR BPSEQ



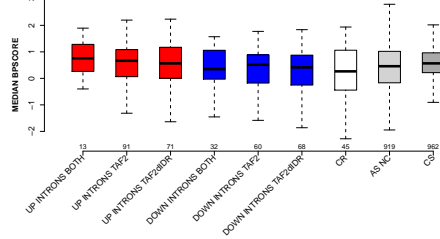
MEDIAN POLYPYRITRAC SCORE



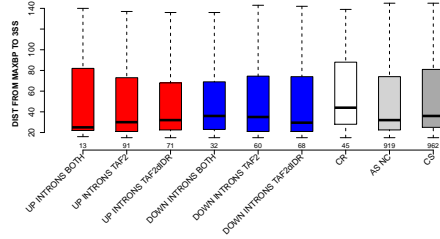
SCORE FOR MAXBP SEQ



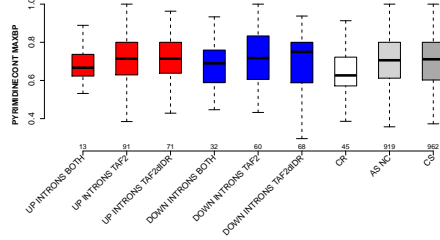
MEDIAN BPSCORE



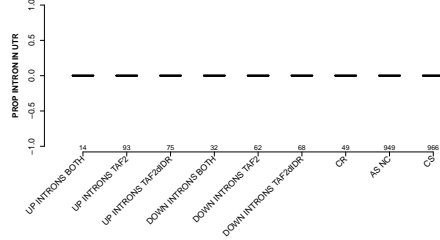
DIST FROM MAXBP TO 3SS



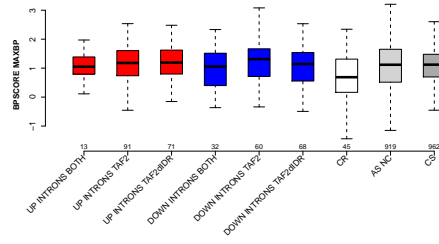
PYRIMIDINECONT MAXBP



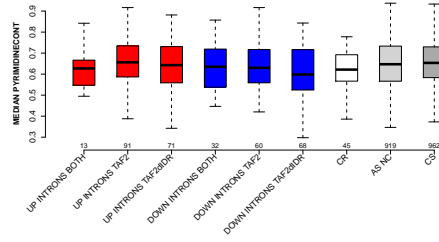
PROP INTRON IN UTR



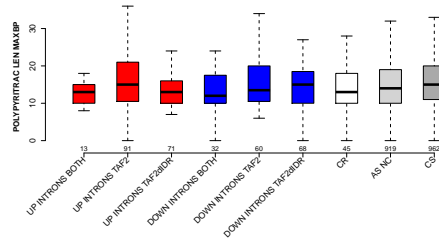
BPSCORE MAXBP



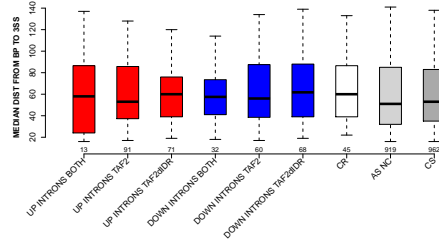
MEDIAN PYRIMIDINECONT



POLYPYRITRAC LEN MAXBP



MEDIAN DIST FROM BP TO 3SS

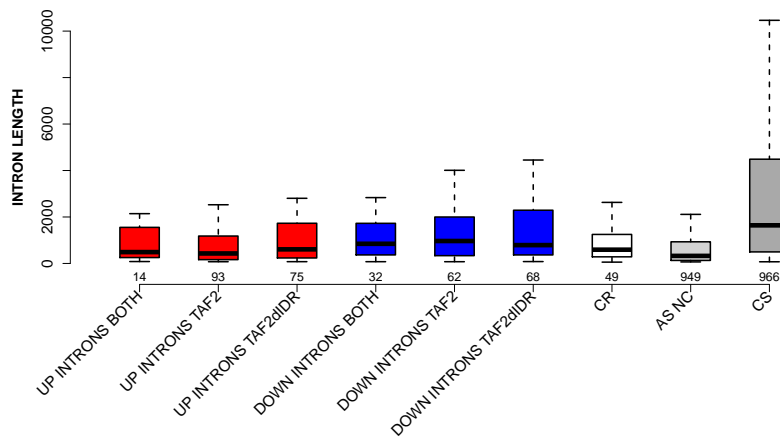


6 Details: Box plots and statistical assessments for all features

6.1 INTRON LENGTH

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Meaning:



Significant results from Mann-Whitney U test:

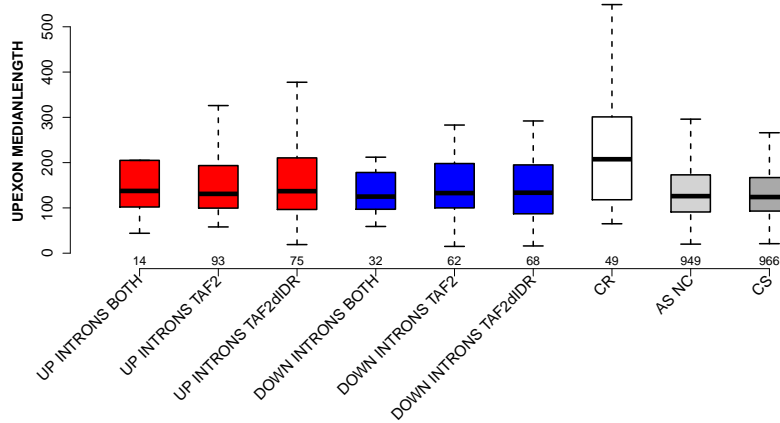
- UP_INTRONS_BOTH vs CS : 0.0319072
mean: 1864.3571 < 5064.7308 , median: 488.5 < 1641
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2 : 0.0338278
mean: 1950.7957 > 1634.4355 , median: 430 < 966
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2dIDR : 0.0136675
mean: 1950.7957 > 1719.5147 , median: 430 < 789
- UP_INTRONS_TAF2 vs AS_NC : 0.0387461
mean: 1950.7957 > 888.0242 , median: 430 > 325
- UP_INTRONS_TAF2 vs CS : 5.3078e-10
mean: 1950.7957 < 5064.7308 , median: 430 < 1641
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.00101715
mean: 1904.48 > 888.0242 , median: 607 > 325
- UP_INTRONS_TAF2dIDR vs CS : 7.28154e-06
mean: 1904.48 < 5064.7308 , median: 607 < 1641
- DOWN_INTRONS_BOTH vs AS_NC : 0.00159833
mean: 1747.1562 > 888.0242 , median: 846 > 325

- DOWN_INTRONS_BOTH vs CS : 0.0116022
mean: 1747.1562 < 5064.7308 , median: 846 < 1641
- DOWN_INTRONS_TAF2 vs AS_NC : 8.88009e-06
mean: 1634.4355 > 888.0242 , median: 966 > 325
- DOWN_INTRONS_TAF2 vs CS : 0.002121
mean: 1634.4355 < 5064.7308 , median: 966 < 1641
- DOWN_INTRONS_TAF2dIDR vs AS_NC : 5.15012e-07
mean: 1719.5147 > 888.0242 , median: 789 > 325
- DOWN_INTRONS_TAF2dIDR vs CS : 0.00296312
mean: 1719.5147 < 5064.7308 , median: 789 < 1641
- CR vs AS_NC : 0.0129423
mean: 1180.3673 > 888.0242 , median: 592 > 325
- CR vs CS : 1.42888e-05
mean: 1180.3673 < 5064.7308 , median: 592 < 1641
- AS_NC vs CS : 1.20013e-82
mean: 888.0242 < 5064.7308 , median: 325 < 1641

6.2 UPEXON MEDIANLENGTH

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Meaning: if intron is in several transcripts, it might have different up-stream exons, and this is the median length of them



Significant results from Mann-Whitney U test:

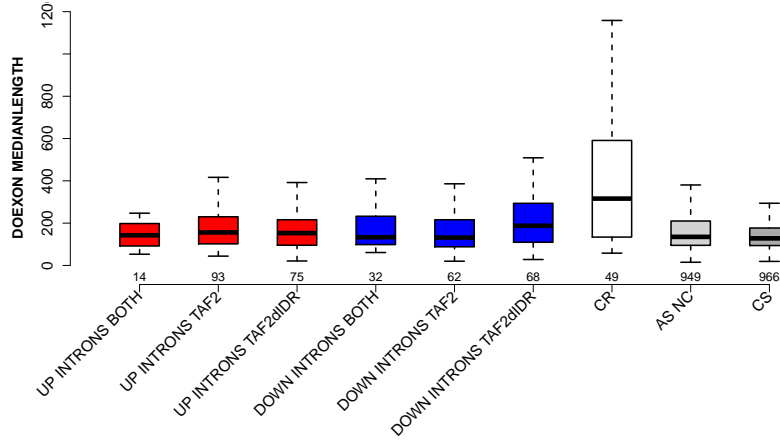
- UP_INTRONS_TAF2 vs CR : 0.00229606
mean: 189.3065 < 382.9694 , median: 131 < 207.5
- UP_INTRONS_TAF2 vs CS : 0.0465232
mean: 189.3065 > 143.0047 , median: 131 > 124
- UP_INTRONS_TAF2dIDR vs CR : 0.0138533
mean: 207.2267 < 382.9694 , median: 137 < 207.5
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.037377
mean: 207.2267 > 163.4842 , median: 137 > 126
- UP_INTRONS_TAF2dIDR vs CS : 0.0125507
mean: 207.2267 > 143.0047 , median: 137 > 124
- DOWN_INTRONS_BOTH vs CR : 0.00331334
mean: 197.2344 < 382.9694 , median: 125 < 207.5
- DOWN_INTRONS_TAF2 vs CR : 0.00564919
mean: 173.0484 < 382.9694 , median: 132.75 < 207.5
- DOWN_INTRONS_TAF2dIDR vs CR : 0.00136667
mean: 192.2868 < 382.9694 , median: 133.5 < 207.5
- CR vs AS_NC : 1.13843e-06
mean: 382.9694 > 163.4842 , median: 207.5 > 126

- CR vs CS : 1.08981e-07
mean: 382.9694 > 143.0047 , median: 207.5 > 124

6.3 DOEXON MEDIANLENGTH

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Meaning: same as UPEXON MEDIANLENGTH but for down-stream exons



Significant results from Mann-Whitney U test:

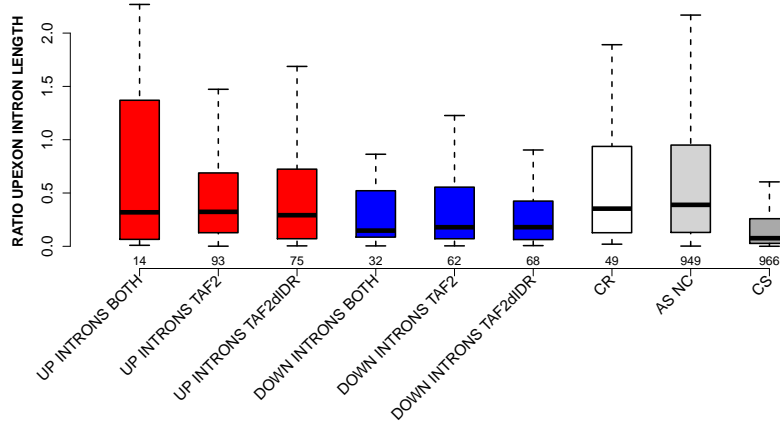
- UP_INTRONS_BOTH vs CR : 0.018884
mean: 199.75 < 521.5306 , median: 142.5 < 316
- UP_INTRONS_TAF2 vs CR : 0.00221534
mean: 369.3925 < 521.5306 , median: 156 < 316
- UP_INTRONS_TAF2 vs CS : 0.00350062
mean: 369.3925 > 257.1242 , median: 156 > 128
- UP_INTRONS_TAF2dIDR vs CR : 0.00117214
mean: 328.5333 < 521.5306 , median: 153 < 316
- UP_INTRONS_TAF2dIDR vs CS : 0.0297117
mean: 328.5333 > 257.1242 , median: 153 > 128
- DOWN_INTRONS_BOTH vs CR : 0.00202324
mean: 231.3125 < 521.5306 , median: 133.25 < 316
- DOWN_INTRONS_TAF2 vs CR : 0.000250964
mean: 242.1855 < 521.5306 , median: 131.75 < 316
- DOWN_INTRONS_TAF2dIDR vs CR : 0.0243675
mean: 346.1838 < 521.5306 , median: 187.5 < 316
- DOWN_INTRONS_TAF2dIDR vs AS_NC : 0.0124241
mean: 346.1838 > 263.8467 , median: 187.5 > 135
- DOWN_INTRONS_TAF2dIDR vs CS : 0.000500713
mean: 346.1838 > 257.1242 , median: 187.5 > 128

- CR vs AS_NC : 2.11858e-06
mean: 521.5306 > 263.8467 , median: 316 > 135
- CR vs CS : 6.08766e-08
mean: 521.5306 > 257.1242 , median: 316 > 128
- AS_NC vs CS : 0.0136925
mean: 263.8467 > 257.1242 , median: 135 > 128

6.4 RATIO UPEXON INTRON LENGTH

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Meaning: median up-stream exon length / intron length



Significant results from Mann-Whitney U test:

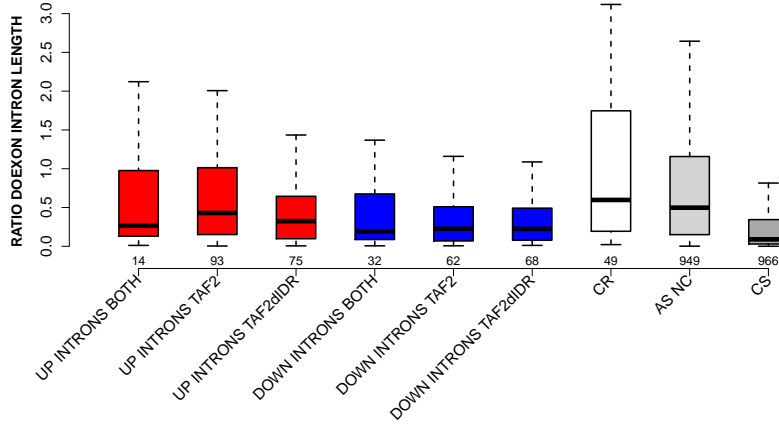
- UP_INTRONS_BOTH vs CS : 0.0238697
mean: 0.673402 > 0.263246 , median: 0.31898 > 0.0762247
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2 : 0.0365227
mean: 0.567473 > 0.455635 , median: 0.323276 > 0.178921
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2dIDR : 0.00675129
mean: 0.567473 > 0.316967 , median: 0.323276 > 0.17942
- UP_INTRONS_TAF2 vs CS : 1.10541e-12
mean: 0.567473 > 0.263246 , median: 0.323276 > 0.0762247
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.0204697
mean: 0.674796 < 0.688341 , median: 0.291785 < 0.388889
- UP_INTRONS_TAF2dIDR vs CS : 3.26545e-07
mean: 0.674796 > 0.263246 , median: 0.291785 > 0.0762247
- DOWN_INTRONS_BOTH vs CR : 0.0287945
mean: 0.396976 < 1.2375 , median: 0.147243 < 0.35337
- DOWN_INTRONS_BOTH vs AS_NC : 0.0120369
mean: 0.396976 < 0.688341 , median: 0.147243 < 0.388889
- DOWN_INTRONS_BOTH vs CS : 0.00452369
mean: 0.396976 > 0.263246 , median: 0.147243 > 0.0762247
- DOWN_INTRONS_TAF2 vs CR : 0.0119026
mean: 0.455635 < 1.2375 , median: 0.178921 < 0.35337

- DOWN_INTRONS_TAF2 vs AS_NC : 0.000635304
mean: 0.455635 < 0.688341 , median: 0.178921 < 0.388889
- DOWN_INTRONS_TAF2 vs CS : 0.000303367
mean: 0.455635 > 0.263246 , median: 0.178921 > 0.0762247
- DOWN_INTRONS_TAF2dIDR vs CR : 0.00235585
mean: 0.316967 < 1.2375 , median: 0.17942 < 0.35337
- DOWN_INTRONS_TAF2dIDR vs AS_NC : 1.31555e-05
mean: 0.316967 < 0.688341 , median: 0.17942 < 0.388889
- DOWN_INTRONS_TAF2dIDR vs CS : 0.000571469
mean: 0.316967 > 0.263246 , median: 0.17942 > 0.0762247
- CR vs CS : 5.66054e-10
mean: 1.2375 > 0.263246 , median: 0.35337 > 0.0762247
- AS_NC vs CS : 1.89983e-80
mean: 0.688341 > 0.263246 , median: 0.388889 > 0.0762247

6.5 RATIO DOEXON INTRON LENGTH

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Meaning: median down-stream exon length / intron length



Significant results from Mann-Whitney U test:

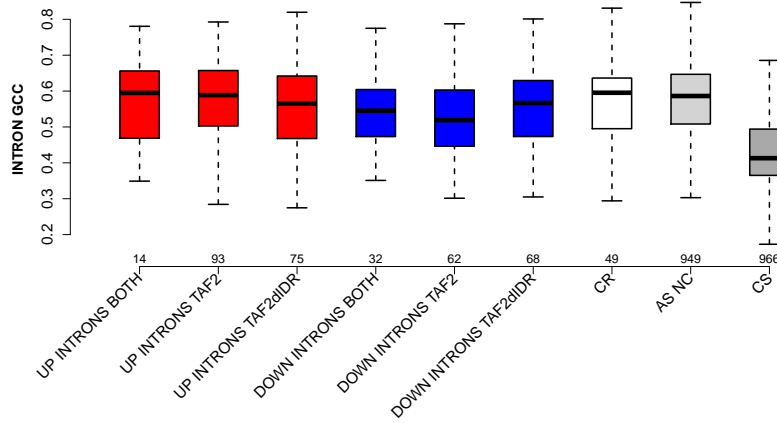
- UP_INTRONS_BOTH vs CS : 0.0405515
mean: 0.648221 > 0.393069 , median: 0.264271 > 0.0895518
- UP_INTRONS_TAF2 vs DOWN_INTRONS_BOTH : 0.0480265
mean: 0.810029 > 0.587178 , median: 0.429134 > 0.189935
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2 : 0.010846
mean: 0.810029 > 0.494221 , median: 0.429134 > 0.225852
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2dIDR : 0.0200423
mean: 0.810029 > 0.647612 , median: 0.429134 > 0.223953
- UP_INTRONS_TAF2 vs CS : 2.33185e-12
mean: 0.810029 > 0.393069 , median: 0.429134 > 0.0895518
- UP_INTRONS_TAF2dIDR vs CR : 0.0272472
mean: 0.891564 < 1.4742 , median: 0.324042 < 0.597403
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.0100959
mean: 0.891564 < 1.0008 , median: 0.324042 < 0.497856
- UP_INTRONS_TAF2dIDR vs CS : 9.77386e-07
mean: 0.891564 > 0.393069 , median: 0.324042 > 0.0895518
- DOWN_INTRONS_BOTH vs CR : 0.00684485
mean: 0.587178 < 1.4742 , median: 0.189935 < 0.597403
- DOWN_INTRONS_BOTH vs AS_NC : 0.00745083
mean: 0.587178 < 1.0008 , median: 0.189935 < 0.497856

- DOWN_INTRONS_BOTH vs CS : 0.0113476
mean: 0.587178 > 0.393069 , median: 0.189935 > 0.0895518
- DOWN_INTRONS_TAF2 vs CR : 0.00199438
mean: 0.494221 < 1.4742 , median: 0.225852 < 0.597403
- DOWN_INTRONS_TAF2 vs AS_NC : 0.00011546
mean: 0.494221 < 1.0008 , median: 0.225852 < 0.497856
- DOWN_INTRONS_TAF2 vs CS : 0.00149549
mean: 0.494221 > 0.393069 , median: 0.225852 > 0.0895518
- DOWN_INTRONS_TAF2dIDR vs CR : 0.00298336
mean: 0.647612 < 1.4742 , median: 0.223953 < 0.597403
- DOWN_INTRONS_TAF2dIDR vs AS_NC : 0.000253908
mean: 0.647612 < 1.0008 , median: 0.223953 < 0.497856
- DOWN_INTRONS_TAF2dIDR vs CS : 2.74214e-05
mean: 0.647612 > 0.393069 , median: 0.223953 > 0.0895518
- CR vs CS : 7.84386e-11
mean: 1.4742 > 0.393069 , median: 0.597403 > 0.0895518
- AS_NC vs CS : 1.75445e-76
mean: 1.0008 > 0.393069 , median: 0.497856 > 0.0895518

6.6 INTRON GCC

[Back to: Overview](#) | [ToC](#)

Meaning: GC content of entire intron sequence



Significant results from Mann-Whitney U test:

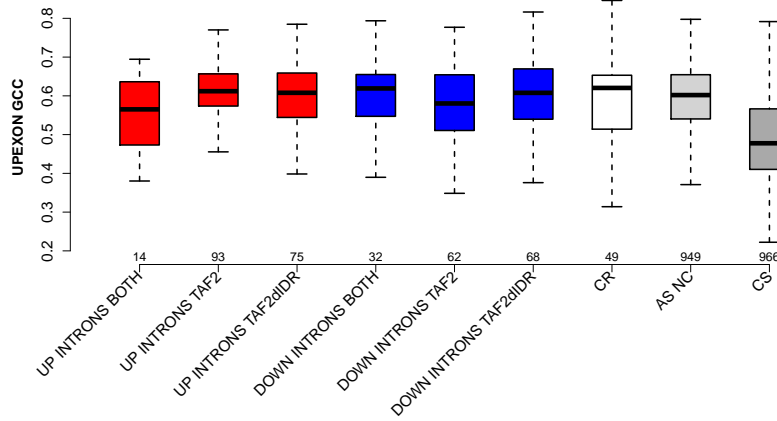
- UP_INTRONS_BOTH vs CS : 0.00015897
mean: 0.574644 > 0.436335 , median: 0.594845 > 0.41294
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2 : 0.0100235
mean: 0.56771 > 0.522052 , median: 0.588608 > 0.518976
- UP_INTRONS_TAF2 vs CS : 1.25127e-20
mean: 0.56771 > 0.436335 , median: 0.588608 > 0.41294
- UP_INTRONS_TAF2dIDR vs CS : 4.04148e-15
mean: 0.55605 > 0.436335 , median: 0.565047 > 0.41294
- DOWN_INTRONS_BOTH vs CS : 1.28579e-07
mean: 0.544086 > 0.436335 , median: 0.545459 > 0.41294
- DOWN_INTRONS_TAF2 vs CR : 0.0379348
mean: 0.522052 < 0.567094 , median: 0.518976 < 0.595349
- DOWN_INTRONS_TAF2 vs AS_NC : 0.000402204
mean: 0.522052 < 0.573131 , median: 0.518976 < 0.586288
- DOWN_INTRONS_TAF2 vs CS : 1.60088e-08
mean: 0.522052 > 0.436335 , median: 0.518976 > 0.41294
- DOWN_INTRONS_TAF2dIDR vs CS : 4.8449e-16
mean: 0.557781 > 0.436335 , median: 0.566865 > 0.41294
- CR vs CS : 8.34462e-12
mean: 0.567094 > 0.436335 , median: 0.595349 > 0.41294

- AS_NC vs CS : 2.805e-125
mean: 0.573131 > 0.436335 , median: 0.586288 > 0.41294

6.7 UPEXON GCC

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Meaning: median GC content of up-stream exons for all occurrences of intron



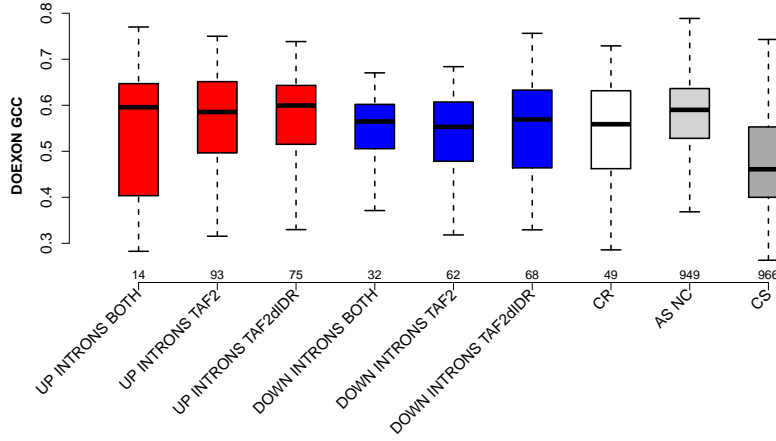
Significant results from Mann-Whitney U test:

- UP_INTRONS_BOTH vs CS : 0.0269237
mean: 0.554024 > 0.492495 , median: 0.565126 > 0.477628
- UP_INTRONS_TAF2 vs CS : 2.77629e-20
mean: 0.601513 > 0.492495 , median: 0.611969 > 0.477628
- UP_INTRONS_TAF2dIDR vs CS : 1.13556e-14
mean: 0.59602 > 0.492495 , median: 0.607843 > 0.477628
- DOWN_INTRONS_BOTH vs CS : 3.09711e-09
mean: 0.61184 > 0.492495 , median: 0.619115 > 0.477628
- DOWN_INTRONS_TAF2 vs CS : 1.84487e-09
mean: 0.576268 > 0.492495 , median: 0.580353 > 0.477628
- DOWN_INTRONS_TAF2dIDR vs CS : 1.80128e-12
mean: 0.595372 > 0.492495 , median: 0.60769 > 0.477628
- CR vs CS : 2.06025e-07
mean: 0.580403 > 0.492495 , median: 0.62042 > 0.477628
- AS_NC vs CS : 1.61282e-89
mean: 0.592162 > 0.492495 , median: 0.60197 > 0.477628

6.8 DOEXON GCC

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Meaning: same as UPEXON MEDIANGCC but for down-stream exons



Significant results from Mann-Whitney U test:

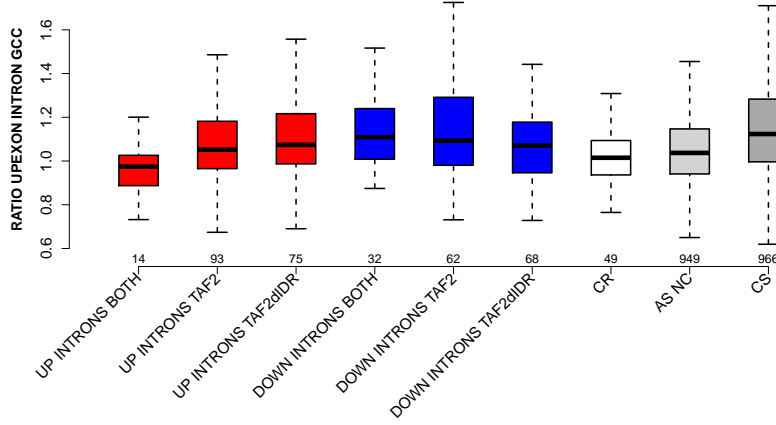
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2 : 0.0413531
mean: 0.567845 > 0.53586 , median: 0.585366 > 0.553218
- UP_INTRONS_TAF2 vs CS : 3.06382e-14
mean: 0.567845 > 0.478673 , median: 0.585366 > 0.460893
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_TAF2 : 0.0221586
mean: 0.570925 > 0.53586 , median: 0.599476 > 0.553218
- UP_INTRONS_TAF2dIDR vs CS : 3.3646e-13
mean: 0.570925 > 0.478673 , median: 0.599476 > 0.460893
- DOWN_INTRONS_BOTH vs CS : 1.94043e-05
mean: 0.552511 > 0.478673 , median: 0.564808 > 0.460893
- DOWN_INTRONS_TAF2 vs AS_NC : 0.00090594
mean: 0.53586 < 0.578015 , median: 0.553218 < 0.59
- DOWN_INTRONS_TAF2 vs CS : 7.91881e-06
mean: 0.53586 > 0.478673 , median: 0.553218 > 0.460893
- DOWN_INTRONS_TAF2dIDR vs CS : 4.19052e-08
mean: 0.553901 > 0.478673 , median: 0.569048 > 0.460893
- CR vs AS_NC : 0.0376878
mean: 0.540458 < 0.578015 , median: 0.558824 < 0.59
- CR vs CS : 0.000121241
mean: 0.540458 > 0.478673 , median: 0.558824 > 0.460893

- AS_NC vs CS : 2.08968e-95
mean: 0.578015 > 0.478673 , median: 0.59 > 0.460893

6.9 RATIO UPEXON INTRON GCC

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Meaning: median GC content of up-stream exons / GC content of intron



Significant results from Mann-Whitney U test:

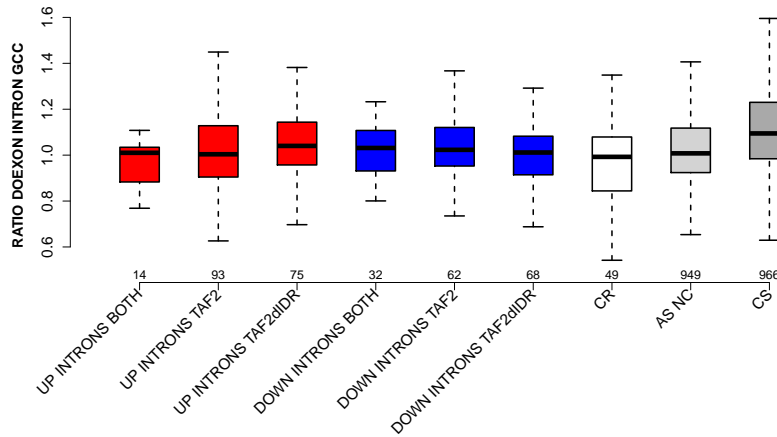
- UP_INTRONS_BOTH vs UP_INTRONS_TAF2dIDR : 0.0260428
mean: 0.985183 < 1.0997 , median: 0.974525 < 1.0739
- UP_INTRONS_BOTH vs DOWN_INTRONS_BOTH : 0.00910121
mean: 0.985183 < 1.1504 , median: 0.974525 < 1.1092
- UP_INTRONS_BOTH vs DOWN_INTRONS_TAF2 : 0.0173882
mean: 0.985183 < 1.139 , median: 0.974525 < 1.0931
- UP_INTRONS_BOTH vs CS : 0.0026906
mean: 0.985183 < 1.1559 , median: 0.974525 < 1.1235
- UP_INTRONS_TAF2 vs CS : 0.00431397
mean: 1.0903 < 1.1559 , median: 1.0518 < 1.1235
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.0338089
mean: 1.0997 > 1.0541 , median: 1.0739 > 1.037
- DOWN_INTRONS_BOTH vs CR : 0.0234845
mean: 1.1504 > 1.0397 , median: 1.1092 > 1.0149
- DOWN_INTRONS_BOTH vs AS_NC : 0.0111582
mean: 1.1504 > 1.0541 , median: 1.1092 > 1.037
- DOWN_INTRONS_TAF2 vs CR : 0.0217166
mean: 1.139 > 1.0397 , median: 1.0931 > 1.0149
- DOWN_INTRONS_TAF2 vs AS_NC : 0.00778597
mean: 1.139 > 1.0541 , median: 1.0931 > 1.037

- DOWN_INTRONS_TAF2dIDR vs CS : 0.0153191
mean: 1.0812 < 1.1559 , median: 1.0706 < 1.1235
- CR vs CS : 0.000345774
mean: 1.0397 < 1.1559 , median: 1.0149 < 1.1235
- AS_NC vs CS : 2.69574e-23
mean: 1.0541 < 1.1559 , median: 1.037 < 1.1235

6.10 RATIO DOEXON INTRON GCC

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Meaning: same as RATIO UPEXON INTRON GCC but for down-stream exons



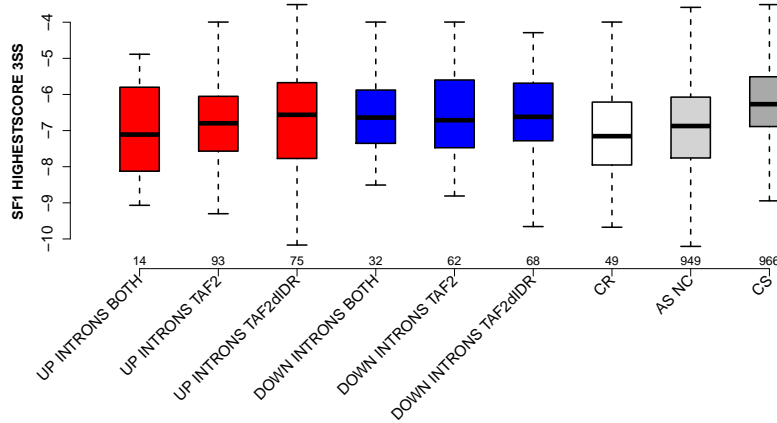
Significant results from Mann-Whitney U test:

- UP_INTRONS_BOTH vs CS : 0.00122865
mean: 0.946644 < 1.1219 , median: 1.0102 < 1.0946
- UP_INTRONS_TAF2 vs CS : 2.24158e-06
mean: 1.0203 < 1.1219 , median: 1.0038 < 1.0946
- UP_INTRONS_TAF2dIDR vs CS : 0.00450455
mean: 1.055 < 1.1219 , median: 1.0402 < 1.0946
- DOWN_INTRONS_BOTH vs CS : 0.0094141
mean: 1.0318 < 1.1219 , median: 1.0312 < 1.0946
- DOWN_INTRONS_TAF2 vs CS : 0.00151609
mean: 1.049 < 1.1219 , median: 1.0231 < 1.0946
- DOWN_INTRONS_TAF2dIDR vs CS : 1.94194e-06
mean: 1.002 < 1.1219 , median: 1.0114 < 1.0946
- CR vs CS : 7.04813e-07
mean: 0.969457 < 1.1219 , median: 0.992481 < 1.0946
- AS_NC vs CS : 8.35131e-28
mean: 1.0283 < 1.1219 , median: 1.0078 < 1.0946

6.11 SF1 HIGHESTSCORE 3SS

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Meaning: highest score of a SF1 positon weight matrix trained with human data in the last 150 nt 3 prime intron positons



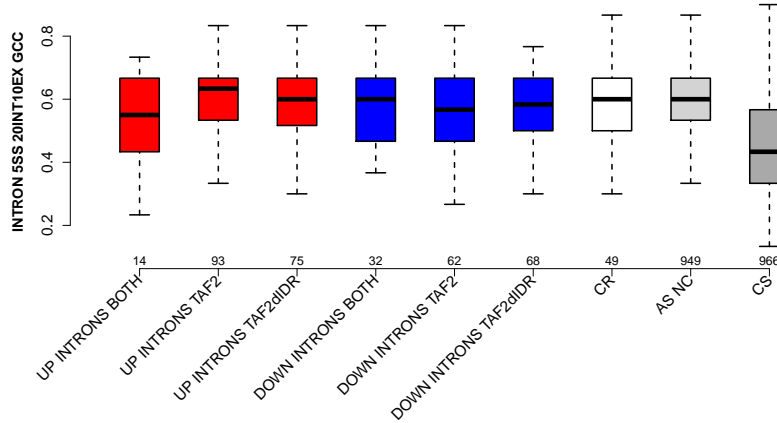
Significant results from Mann-Whitney U test:

- UP_INTRONS_BOTH vs CS : 0.0376982
mean: -6.96787 < -6.19464 , median: -7.11056 < -6.26872
- UP_INTRONS_TAF2 vs CS : 4.3789e-05
mean: -6.69661 < -6.19464 , median: -6.7967 < -6.26872
- UP_INTRONS_TAF2dIDR vs CS : 0.00272766
mean: -6.67917 < -6.19464 , median: -6.56323 < -6.26872
- DOWN_INTRONS_TAF2 vs CS : 0.00750668
mean: -6.59389 < -6.19464 , median: -6.71265 < -6.26872
- DOWN_INTRONS_TAF2dIDR vs CR : 0.0152928
mean: -6.54564 > -7.07336 , median: -6.62001 > -7.15474
- DOWN_INTRONS_TAF2dIDR vs AS_NC : 0.0298007
mean: -6.54564 > -6.83588 , median: -6.62001 > -6.8734
- DOWN_INTRONS_TAF2dIDR vs CS : 0.0118555
mean: -6.54564 < -6.19464 , median: -6.62001 < -6.26872
- CR vs CS : 1.95145e-06
mean: -7.07336 < -6.19464 , median: -7.15474 < -6.26872
- AS_NC vs CS : 6.28079e-34
mean: -6.83588 < -6.19464 , median: -6.8734 < -6.26872

6.12 INTRON 5SS 20INT10EX GCC

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Meaning: GC content of last 10 exon and first 20 intron positions at 5 prime end of intron



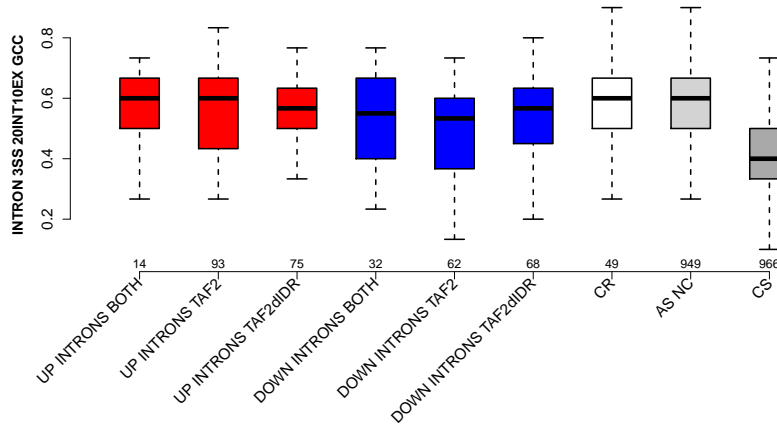
Significant results from Mann-Whitney U test:

- UP_INTRONS_BOTH vs CS : 0.0458382
mean: 0.538095 > 0.461939 , median: 0.55 > 0.433333
- UP_INTRONS_TAF2 vs CS : 3.61503e-13
mean: 0.581362 > 0.461939 , median: 0.633333 > 0.433333
- UP_INTRONS_TAF2dIDR vs CS : 2.56384e-12
mean: 0.591556 > 0.461939 , median: 0.6 > 0.433333
- DOWN_INTRONS_BOTH vs CS : 7.67674e-06
mean: 0.584375 > 0.461939 , median: 0.6 > 0.433333
- DOWN_INTRONS_TAF2 vs AS_NC : 0.0164671
mean: 0.552688 < 0.594766 , median: 0.566667 < 0.6
- DOWN_INTRONS_TAF2 vs CS : 4.23375e-06
mean: 0.552688 > 0.461939 , median: 0.566667 > 0.433333
- DOWN_INTRONS_TAF2dIDR vs CS : 2.25568e-10
mean: 0.577451 > 0.461939 , median: 0.583333 > 0.433333
- CR vs CS : 2.47e-07
mean: 0.57551 > 0.461939 , median: 0.6 > 0.433333
- AS_NC vs CS : 6.04821e-82
mean: 0.594766 > 0.461939 , median: 0.6 > 0.433333

6.13 INTRON 3SS 20INT10EX GCC

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Meaning: GC content of last 20 intron and first 10 exon positions at 3 prime end of intron



Significant results from Mann-Whitney U test:

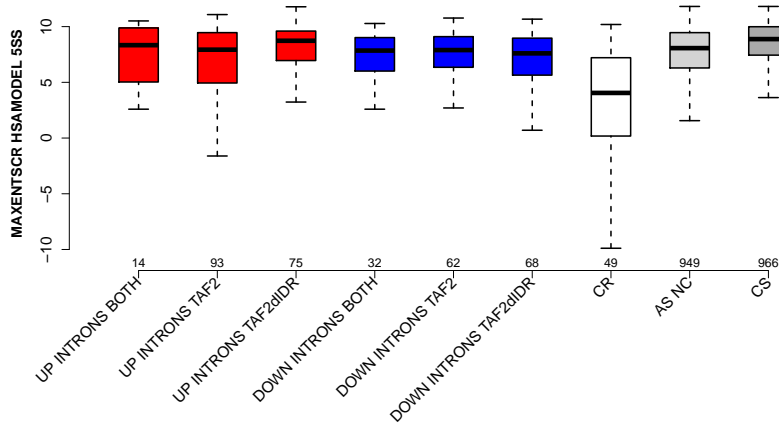
- UP_INTRONS_BOTH vs CS : 0.00069779
mean: 0.561905 > 0.418288 , median: 0.6 > 0.4
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2 : 0.00082334
mean: 0.569534 > 0.486022 , median: 0.6 > 0.533333
- UP_INTRONS_TAF2 vs CS : 4.81777e-18
mean: 0.569534 > 0.418288 , median: 0.6 > 0.4
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_TAF2 : 0.0216271
mean: 0.548444 > 0.486022 , median: 0.566667 > 0.533333
- UP_INTRONS_TAF2dIDR vs CS : 2.94277e-14
mean: 0.548444 > 0.418288 , median: 0.566667 > 0.4
- DOWN_INTRONS_BOTH vs CS : 0.000104702
mean: 0.520833 > 0.418288 , median: 0.55 > 0.4
- DOWN_INTRONS_TAF2 vs CR : 0.0090371
mean: 0.486022 < 0.565306 , median: 0.533333 < 0.6
- DOWN_INTRONS_TAF2 vs AS_NC : 2.76216e-05
mean: 0.486022 < 0.568599 , median: 0.533333 < 0.6
- DOWN_INTRONS_TAF2 vs CS : 0.000132589
mean: 0.486022 > 0.418288 , median: 0.533333 > 0.4

- DOWN_INTRONS_TAF2dIDR vs CS : $1.32761\text{e-}11$
mean: $0.539216 > 0.418288$, median: $0.566667 > 0.4$
- CR vs CS : $1.72611\text{e-}10$
mean: $0.565306 > 0.418288$, median: $0.6 > 0.4$
- AS_NC vs CS : $2.19029\text{e-}111$
mean: $0.568599 > 0.418288$, median: $0.6 > 0.4$

6.14 MAXENTSCR HSAMODEL 5SS

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Meaning: maximum entropy score of 5ss using a model trained with human splice sites



Significant results from Mann-Whitney U test:

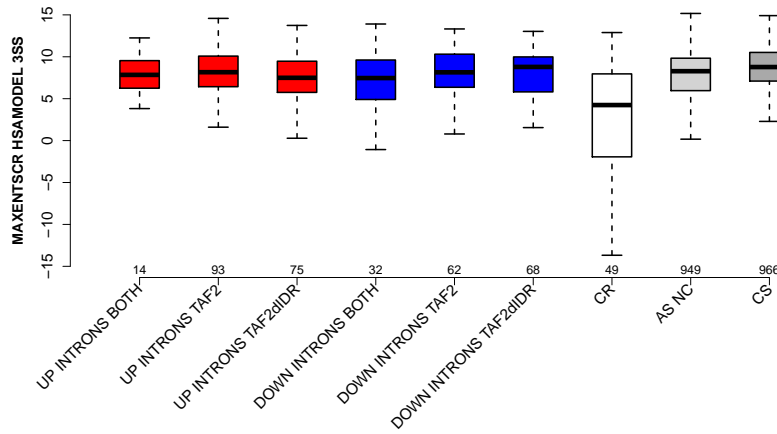
- UP_INTRONS_BOTH vs CR : 0.000516612
mean: 7.7993 > 2.4767 , median: 8.335 > 4.05
- UP_INTRONS_TAF2 vs UP_INTRONS_TAF2dIDR : 0.0191793
mean: 7.169 < 8.0565 , median: 7.93 < 8.73
- UP_INTRONS_TAF2 vs CR : 7.1763e-07
mean: 7.169 > 2.4767 , median: 7.93 > 4.05
- UP_INTRONS_TAF2 vs CS : 5.07951e-06
mean: 7.169 < 8.4679 , median: 7.93 < 8.88
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_BOTH : 0.0352035
mean: 8.0565 > 6.7169 , median: 8.73 > 7.85
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_TAF2 : 0.0418743
mean: 8.0565 > 7.4806 , median: 8.73 > 7.895
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_TAF2dIDR : 0.00544883
mean: 8.0565 > 6.9797 , median: 8.73 > 7.6
- UP_INTRONS_TAF2dIDR vs CR : 4.4256e-10
mean: 8.0565 > 2.4767 , median: 8.73 > 4.05
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.0280021
mean: 8.0565 > 7.2152 , median: 8.73 > 8.07
- DOWN_INTRONS_BOTH vs CR : 0.00028583
mean: 6.7169 > 2.4767 , median: 7.85 > 4.05

- DOWN_INTRONS_BOTH vs CS : 0.0011847
mean: 6.7169 < 8.4679 , median: 7.85 < 8.88
- DOWN_INTRONS_TAF2 vs CR : 5.89606e-07
mean: 7.4806 > 2.4767 , median: 7.895 > 4.05
- DOWN_INTRONS_TAF2 vs CS : 0.000212904
mean: 7.4806 < 8.4679 , median: 7.895 < 8.88
- DOWN_INTRONS_TAF2dIDR vs CR : 4.71156e-06
mean: 6.9797 > 2.4767 , median: 7.6 > 4.05
- DOWN_INTRONS_TAF2dIDR vs CS : 1.46921e-06
mean: 6.9797 < 8.4679 , median: 7.6 < 8.88
- CR vs AS_NC : 1.19476e-10
mean: 2.4767 < 7.2152 , median: 4.05 < 8.07
- CR vs CS : 2.20109e-17
mean: 2.4767 < 8.4679 , median: 4.05 < 8.88
- AS_NC vs CS : 3.26574e-18
mean: 7.2152 < 8.4679 , median: 8.07 < 8.88

6.15 MAXENTSCR HSAMODEL 3SS

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Meaning: maximum entropy score of 3ss using a model trained with human splice sites



Significant results from Mann-Whitney U test:

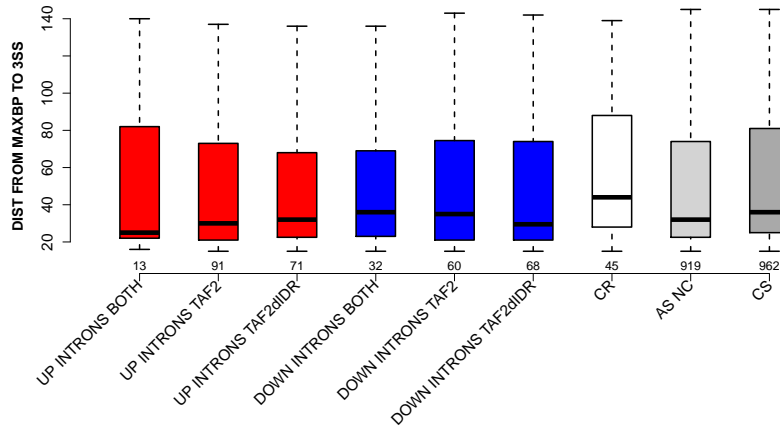
- UP_INTRONS_BOTH vs CR : 0.01989
mean: 7.1043 > 1.2061 , median: 7.84 > 4.24
- UP_INTRONS_TAF2 vs CR : 9.76412e-07
mean: 7.9854 > 1.2061 , median: 8.16 > 4.24
- UP_INTRONS_TAF2 vs CS : 0.0316568
mean: 7.9854 < 8.6681 , median: 8.16 < 8.775
- UP_INTRONS_TAF2dIDR vs CR : 7.38232e-05
mean: 7.2853 > 1.2061 , median: 7.49 > 4.24
- UP_INTRONS_TAF2dIDR vs CS : 0.00225371
mean: 7.2853 < 8.6681 , median: 7.49 < 8.775
- DOWN_INTRONS_BOTH vs CR : 0.00230393
mean: 7.0888 > 1.2061 , median: 7.46 > 4.24
- DOWN_INTRONS_BOTH vs CS : 0.00739955
mean: 7.0888 < 8.6681 , median: 7.46 < 8.775
- DOWN_INTRONS_TAF2 vs CR : 7.86363e-06
mean: 7.9869 > 1.2061 , median: 8.145 > 4.24
- DOWN_INTRONS_TAF2dIDR vs CR : 1.22706e-05
mean: 7.7671 > 1.2061 , median: 8.79 > 4.24
- CR vs AS_NC : 3.03037e-08
mean: 1.2061 < 7.6425 , median: 4.24 < 8.28

- CR vs CS : 7.80899e-12
mean: 1.2061 < 8.6681 , median: 4.24 < 8.775
- AS_NC vs CS : 1.42038e-09
mean: 7.6425 < 8.6681 , median: 8.28 < 8.775

6.16 DIST FROM MAXBP TO 3SS

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Meaning: Distance to 3ss of best precited BP



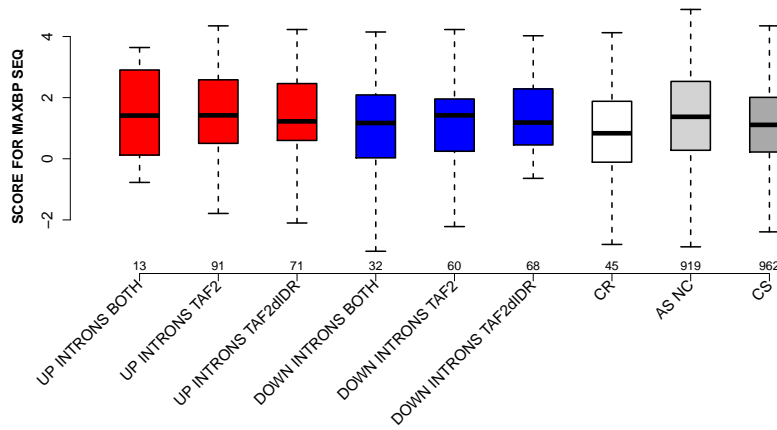
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs CR : 0.0339063
mean: 50.7363 < 60.6889 , median: 30 < 44
- UP_INTRONS_TAF2dIDR vs CR : 0.0257344
mean: 47.2254 < 60.6889 , median: 32 < 44
- DOWN_INTRONS_TAF2dIDR vs CR : 0.0364785
mean: 50.4265 < 60.6889 , median: 29.5 < 44
- CR vs AS_NC : 0.0172338
mean: 60.6889 > 50.5473 , median: 44 > 32
- AS_NC vs CS : 0.000701499
mean: 50.5473 < 54.1944 , median: 32 < 36

6.17 SCORE FOR MAXBP SEQ

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Meaning: BP sequence score of best predicted BP



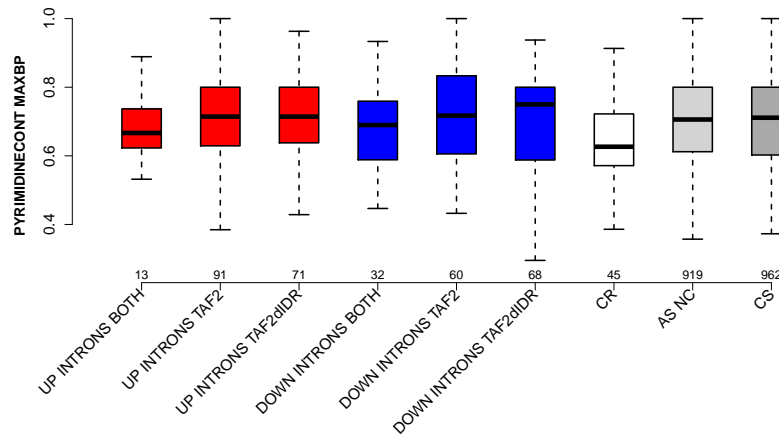
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs CR : 0.00691401
mean: 1.5302 > 0.727067 , median: 1.4212 > 0.834817
- UP_INTRONS_TAF2 vs CS : 0.0141454
mean: 1.5302 > 1.114 , median: 1.4212 > 1.1088
- UP_INTRONS_TAF2dIDR vs CR : 0.0103535
mean: 1.4807 > 0.727067 , median: 1.2247 > 0.834817
- UP_INTRONS_TAF2dIDR vs CS : 0.0466904
mean: 1.4807 > 1.114 , median: 1.2247 > 1.1088
- DOWN_INTRONS_TAF2dIDR vs CR : 0.0223441
mean: 1.3981 > 0.727067 , median: 1.1838 > 0.834817
- CR vs AS_NC : 0.00895556
mean: 0.727067 < 1.3493 , median: 0.834817 < 1.3728
- AS_NC vs CS : 0.000284643
mean: 1.3493 > 1.114 , median: 1.3728 > 1.1088

6.18 PYRIMIDINECONT MAXBP

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Meaning: Pyrimidine content between the BP adenine and the 3 prime splice site for best BP



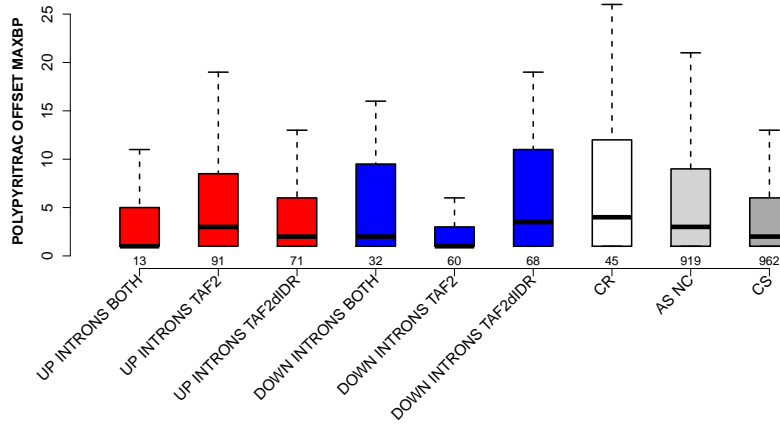
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs CR : 0.00183477
mean: 0.713655 > 0.640034 , median: 0.714286 > 0.626506
- UP_INTRONS_TAF2dIDR vs CR : 0.00402944
mean: 0.708461 > 0.640034 , median: 0.714286 > 0.626506
- DOWN_INTRONS_TAF2 vs CR : 0.00967933
mean: 0.717186 > 0.640034 , median: 0.717143 > 0.626506
- DOWN_INTRONS_TAF2dIDR vs CR : 0.0194035
mean: 0.693838 > 0.640034 , median: 0.749756 > 0.626506
- CR vs AS_NC : 0.00255973
mean: 0.640034 < 0.702141 , median: 0.626506 < 0.705882
- CR vs CS : 0.00178398
mean: 0.640034 < 0.706294 , median: 0.626506 < 0.711111

6.19 POLYPYRITRAC OFFSET MAXBP

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Meaning: Polypyrimidine track offset relative to the BP adenine for best BP



Significant results from Mann-Whitney U test:

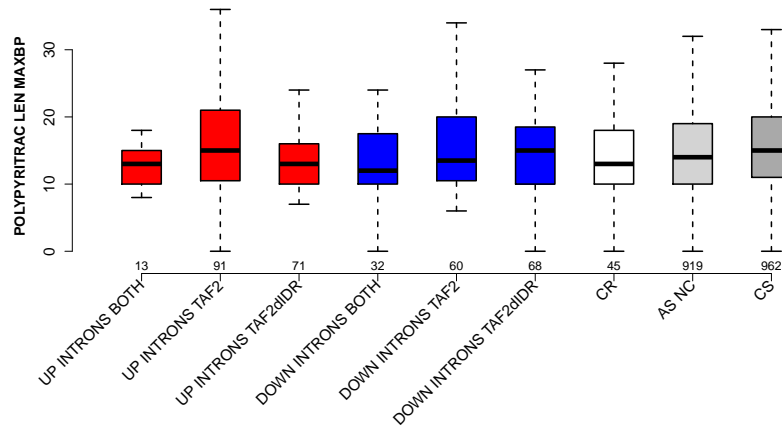
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2 : 0.00128512
mean: 7.5055 > 3.7 , median: 3 > 1
- UP_INTRONS_TAF2 vs CS : 0.00968863
mean: 7.5055 > 4.0541 , median: 3 > 2
- UP_INTRONS_TAF2dIDR vs CR : 0.02887
mean: 4.8592 < 8.0667 , median: 2 < 4
- DOWN_INTRONS_BOTH vs DOWN_INTRONS_TAF2 : 0.0408769
mean: 10.0625 > 3.7 , median: 2 > 1
- DOWN_INTRONS_TAF2 vs DOWN_INTRONS_TAF2dIDR : 0.00709632
mean: 3.7 < 9.7059 , median: 1 < 3.5
- DOWN_INTRONS_TAF2 vs CR : 0.000308973
mean: 3.7 < 8.0667 , median: 1 < 4
- DOWN_INTRONS_TAF2 vs AS_NC : 0.000148538
mean: 3.7 < 6.445 , median: 1 < 3
- DOWN_INTRONS_TAF2 vs CS : 0.0326139
mean: 3.7 < 4.0541 , median: 1 < 2
- DOWN_INTRONS_TAF2dIDR vs CS : 0.0384149
mean: 9.7059 > 4.0541 , median: 3.5 > 2
- CR vs CS : 0.0013561
mean: 8.0667 > 4.0541 , median: 4 > 2

- AS_NC vs CS : 7.96057e-09
mean: 6.445 > 4.0541 , median: 3 > 2

6.20 POLYPYRITRAC LEN MAXBP

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Meaning: Polypyrimidine track length for best BP



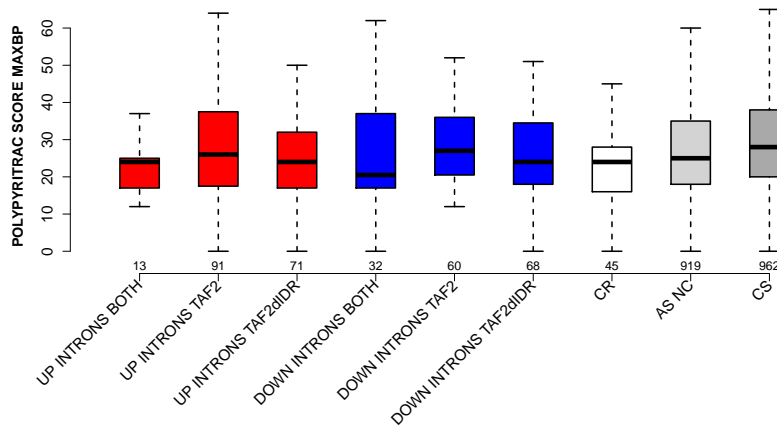
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2dIDR vs CS : 0.0388667
mean: 14.7606 < 16.2536 , median: 13 < 15

6.21 POLYPYRITRAC SCORE MAXBP

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Meaning: Polypyrimidine track score for best BP



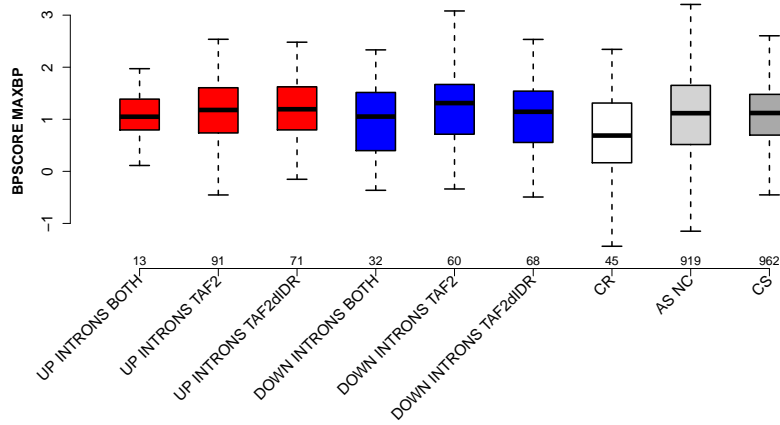
Significant results from Mann-Whitney U test:

- UP_INTRONS_BOTH vs CS : 0.0218007
mean: 20.3077 < 31.1403 , median: 24 < 28
- UP_INTRONS_TAF2dIDR vs CS : 0.00864057
mean: 27.8451 < 31.1403 , median: 24 < 28
- DOWN_INTRONS_BOTH vs CS : 0.009779
mean: 24.75 < 31.1403 , median: 20.5 < 28
- DOWN_INTRONS_TAF2dIDR vs CS : 0.0365751
mean: 27.7647 < 31.1403 , median: 24 < 28
- CR vs CS : 0.00935101
mean: 28.0222 < 31.1403 , median: 24 < 28
- AS_NC vs CS : 4.43541e-06
mean: 28.2111 < 31.1403 , median: 25 < 28

6.22 BPSCORE MAXBP

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Meaning: SVM classification score of best BP



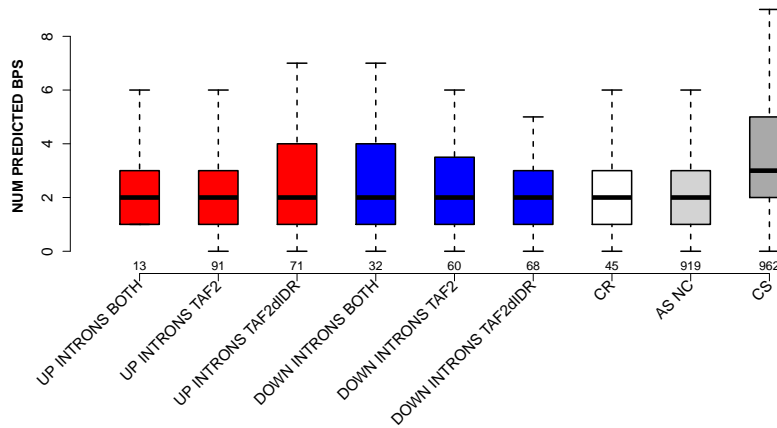
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs CR : 0.0140561
mean: 1.0178 > 0.643616 , median: 1.1786 > 0.687251
- UP_INTRONS_TAF2dIDR vs CR : 0.0052182
mean: 1.1622 > 0.643616 , median: 1.1929 > 0.687251
- DOWN_INTRONS_TAF2 vs CR : 0.00442906
mean: 1.119 > 0.643616 , median: 1.311 > 0.687251
- CR vs AS_NC : 0.0159753
mean: 0.643616 < 1.0117 , median: 0.687251 < 1.1169
- CR vs CS : 0.00395986
mean: 0.643616 < 1.0995 , median: 0.687251 < 1.1203

6.23 NUM PREDICTED BPS

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Meaning: number of all predicted BPs which have a positive BP score



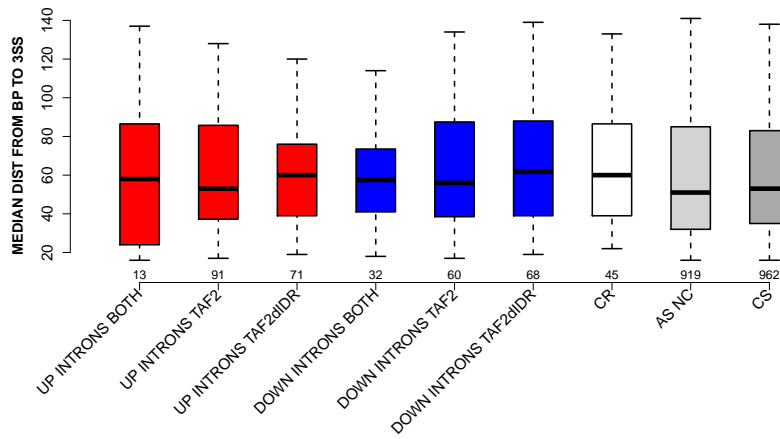
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs AS_NC : 0.0436162
mean: 2.4835 > 2.1132 , median: 2 = 2
- UP_INTRONS_TAF2 vs CS : 3.25858e-06
mean: 2.4835 < 3.4283 , median: 2 < 3
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.00318875
mean: 2.7746 > 2.1132 , median: 2 = 2
- UP_INTRONS_TAF2dIDR vs CS : 0.00739747
mean: 2.7746 < 3.4283 , median: 2 < 3
- DOWN_INTRONS_TAF2 vs CS : 7.00862e-05
mean: 2.4833 < 3.4283 , median: 2 < 3
- DOWN_INTRONS_TAF2dIDR vs CS : 0.000252504
mean: 2.4853 < 3.4283 , median: 2 < 3
- CR vs CS : 0.000223094
mean: 2.4 < 3.4283 , median: 2 < 3
- AS_NC vs CS : 4.30433e-50
mean: 2.1132 < 3.4283 , median: 2 < 3

6.24 MEDIAN DIST FROM BP TO 3SS

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Meaning: like DIST FROM MAXBP TO 3SS but median over top-3 predicted BPs



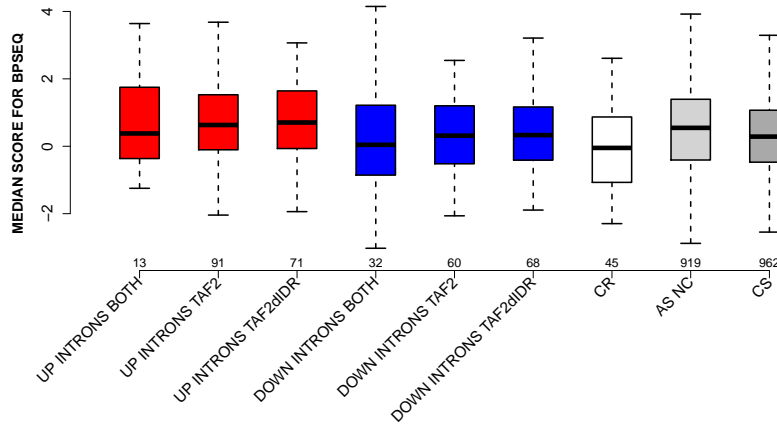
Significant results from Mann-Whitney U test:

- DOWN_INTRONS_TAF2dIDR vs AS_NC : 0.0423717
mean: 67.8676 > 60.3847 , median: 61.75 > 51

6.25 MEDIAN SCORE FOR BPSEQ

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Meaning: like SCORE FOR MAXBP SEQ but median over top-3 predicted BPs



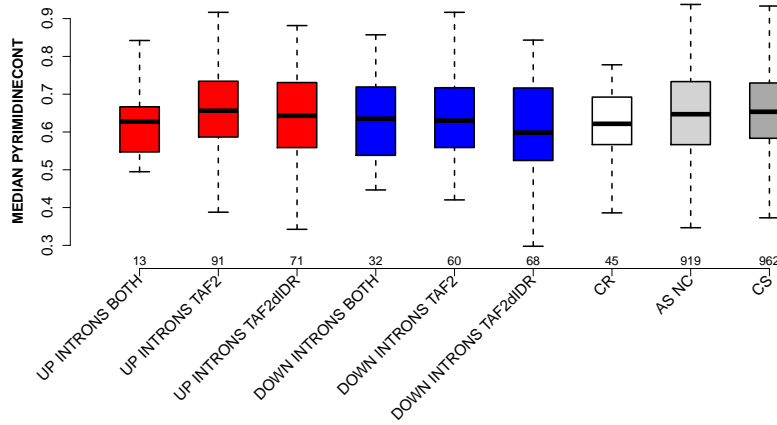
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs CR : 0.00873298
mean: 0.670393 > 0.0265635 , median: 0.630467 > -0.0489897
- UP_INTRONS_TAF2 vs CS : 0.0048302
mean: 0.670393 > 0.29138 , median: 0.630467 > 0.286001
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_BOTH : 0.0483799
mean: 0.759644 > 0.112309 , median: 0.704061 > 0.0425939
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_TAF2 : 0.0343656
mean: 0.759644 > 0.208103 , median: 0.704061 > 0.314884
- UP_INTRONS_TAF2dIDR vs CR : 0.00257647
mean: 0.759644 > 0.0265635 , median: 0.704061 > -0.0489897
- UP_INTRONS_TAF2dIDR vs CS : 0.00122617
mean: 0.759644 > 0.29138 , median: 0.704061 > 0.286001
- CR vs AS_NC : 0.00855432
mean: 0.0265635 < 0.55621 , median: -0.0489897 < 0.546263
- AS_NC vs CS : 4.30369e-05
mean: 0.55621 > 0.29138 , median: 0.546263 > 0.286001

6.26 MEDIAN PYRIMIDINECONT

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Meaning: like PYRIMIDINECONT MAXBP but median over top-3 predicted BPs



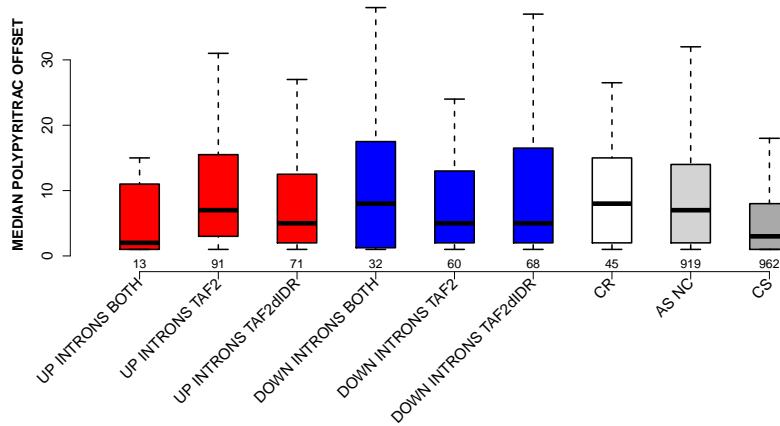
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2dIDR : 0.0423851
mean: 0.654749 > 0.615093 , median: 0.65625 > 0.598246
- DOWN_INTRONS_TAF2dIDR vs AS_NC : 0.0323382
mean: 0.615093 < 0.64973 , median: 0.598246 < 0.647059
- DOWN_INTRONS_TAF2dIDR vs CS : 0.00515946
mean: 0.615093 < 0.658743 , median: 0.598246 < 0.653454
- CR vs AS_NC : 0.0432779
mean: 0.608188 < 0.64973 , median: 0.621622 < 0.647059
- CR vs CS : 0.0119525
mean: 0.608188 < 0.658743 , median: 0.621622 < 0.653454

6.27 MEDIAN POLYPYRITRAC OFFSET

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Meaning: like POLYPYRITRAC OFFSET MAXBP but median over top-3 predicted BPs



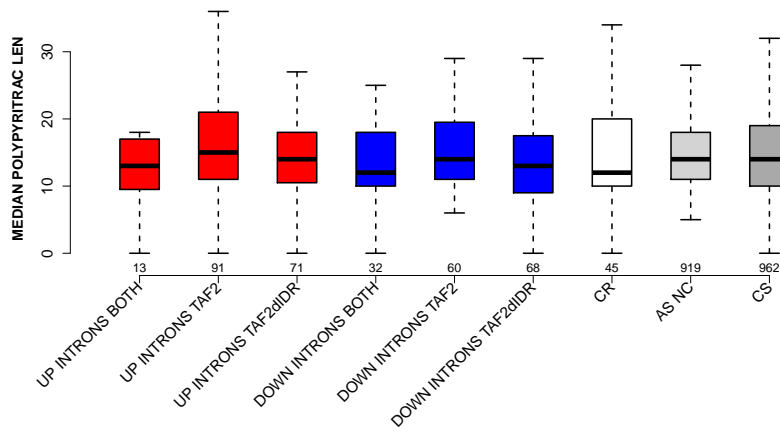
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs CS : 1.12498e-05
mean: 13.2692 > 6.2386 , median: 7 > 3
- UP_INTRONS_TAF2dIDR vs CS : 0.00746084
mean: 10.9789 > 6.2386 , median: 5 > 3
- DOWN_INTRONS_BOTH vs CS : 0.0441819
mean: 14.8594 > 6.2386 , median: 8 > 3
- DOWN_INTRONS_TAF2 vs CS : 0.049585
mean: 10.475 > 6.2386 , median: 5 > 3
- DOWN_INTRONS_TAF2dIDR vs CS : 0.0044505
mean: 14.0588 > 6.2386 , median: 5 > 3
- CR vs CS : 0.0002235
mean: 11.7667 > 6.2386 , median: 8 > 3
- AS_NC vs CS : 1.08241e-22
mean: 11.7198 > 6.2386 , median: 7 > 3

6.28 MEDIAN POLYPYRITRAC LEN

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Meaning: like POLYPYRITRAC LEN MAXBP but median over top-3 predicted BPs



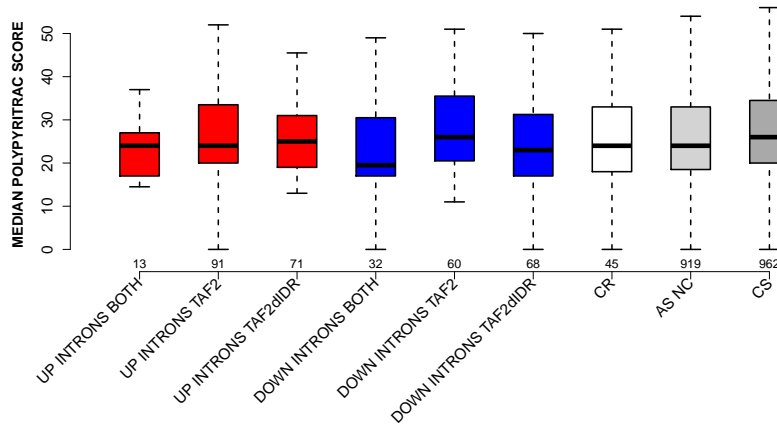
Significant results from Mann-Whitney U test:

- none

6.29 MEDIAN POLYPYRITRAC SCORE

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Meaning: like POLYPYRITRAC SCORE MAXBP but median over top-3 predicted BPs



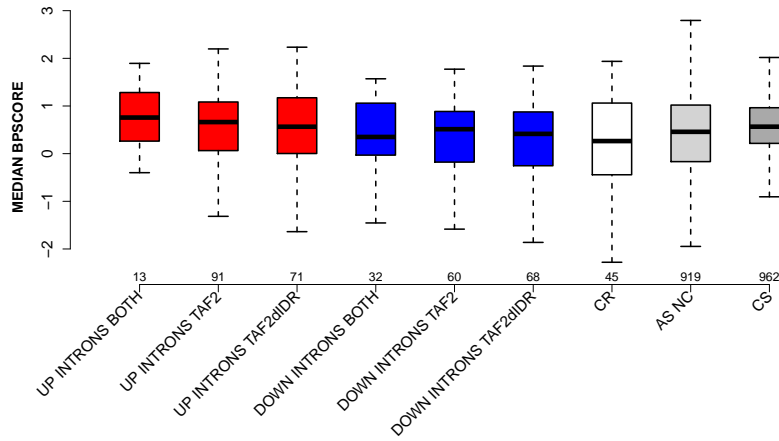
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs DOWN_INTRONS_BOTH : 0.0443538
mean: 27.7747 > 22.6094 , median: 24 > 19.5
- DOWN_INTRONS_BOTH vs DOWN_INTRONS_TAF2 : 0.0141599
mean: 22.6094 < 33.9083 , median: 19.5 < 26
- DOWN_INTRONS_BOTH vs CS : 0.0035973
mean: 22.6094 < 29.2968 , median: 19.5 < 26
- DOWN_INTRONS_TAF2dIDR vs CS : 0.0139816
mean: 25.3235 < 29.2968 , median: 23 < 26
- AS_NC vs CS : 0.000237225
mean: 27.2514 < 29.2968 , median: 24 < 26

6.30 MEDIAN BPSCORE

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Meaning: like BPSCORE MAXBP but median over top-3 predicted BPs



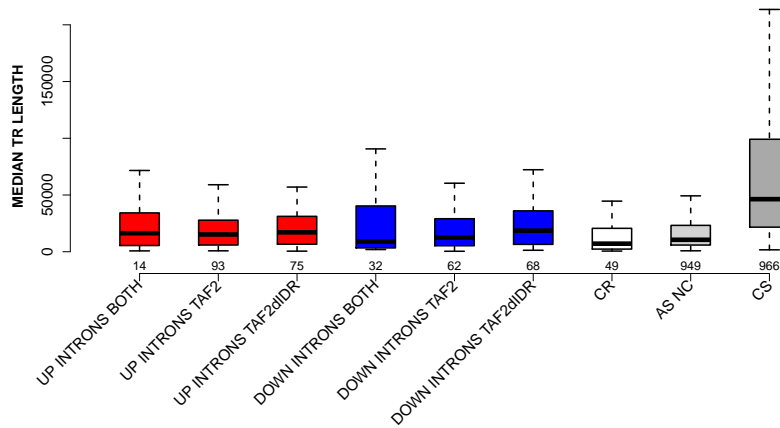
Significant results from Mann-Whitney U test:

- DOWN_INTRONS_TAF2dIDR vs CS : 0.0491692
mean: 0.0136546 < 0.523785 , median: 0.415061 < 0.565722
- CR vs CS : 0.00548657
mean: 0.0460514 < 0.523785 , median: 0.264176 < 0.565722
- AS_NC vs CS : 0.000316957
mean: 0.264585 < 0.523785 , median: 0.45818 < 0.565722

6.31 MEDIAN TR LENGTH

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Meaning: median length of transcripts the intron occurs in



Significant results from Mann-Whitney U test:

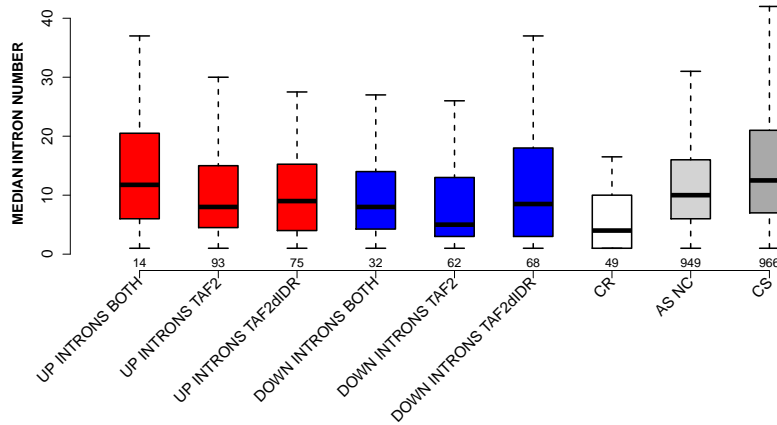
- UP_INTRONS_BOTH vs CS : 0.00196684
mean: 27878.75 < 75308.278 , median: 16296 < 46337.5
- UP_INTRONS_TAF2 vs CR : 0.0209606
mean: 35082.0753 > 19738.1837 , median: 15230 > 7107
- UP_INTRONS_TAF2 vs CS : 1.28168e-17
mean: 35082.0753 < 75308.278 , median: 15230 < 46337.5
- UP_INTRONS_TAF2dIDR vs CR : 0.013758
mean: 35032.68 > 19738.1837 , median: 17111 > 7107
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.0319322
mean: 35032.68 > 20284.3203 , median: 17111 > 10531.5
- UP_INTRONS_TAF2dIDR vs CS : 3.25738e-12
mean: 35032.68 < 75308.278 , median: 17111 < 46337.5
- DOWN_INTRONS_BOTH vs CS : 5.26069e-07
mean: 32697.5469 < 75308.278 , median: 8920 < 46337.5
- DOWN_INTRONS_TAF2 vs CR : 0.0469793
mean: 27221.6935 > 19738.1837 , median: 12488.25 > 7107
- DOWN_INTRONS_TAF2 vs CS : 8.40182e-13
mean: 27221.6935 < 75308.278 , median: 12488.25 < 46337.5
- DOWN_INTRONS_TAF2dIDR vs CR : 0.00471591
mean: 34052.6765 > 19738.1837 , median: 18599.5 > 7107

- DOWN_INTRONS_TAF2dIDR vs AS_NC : 0.0102413
mean: 34052.6765 > 20284.3203 , median: 18599.5 > 10531.5
- DOWN_INTRONS_TAF2dIDR vs CS : 1.35788e-10
mean: 34052.6765 < 75308.278 , median: 18599.5 < 46337.5
- CR vs AS_NC : 0.0342503
mean: 19738.1837 < 20284.3203 , median: 7107 < 10531.5
- CR vs CS : 1.02478e-14
mean: 19738.1837 < 75308.278 , median: 7107 < 46337.5
- AS_NC vs CS : 1.04971e-127
mean: 20284.3203 < 75308.278 , median: 10531.5 < 46337.5

6.32 MEDIAN INTRON NUMBER

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Meaning: number of introns of transcripts where intron occurs in



Significant results from Mann-Whitney U test:

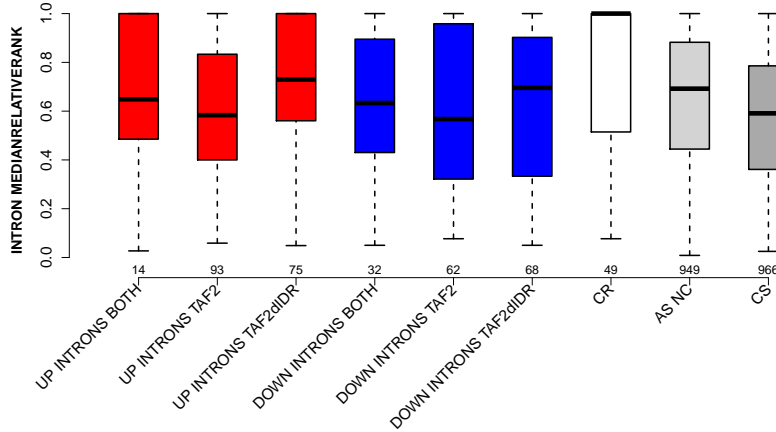
- UP_INTRONS_BOTH vs CR : 0.00583283
mean: 13.7857 > 6.2857 , median: 11.75 > 4
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2 : 0.0185432
mean: 11.3065 > 8.1613 , median: 8 > 5
- UP_INTRONS_TAF2 vs CR : 0.00015343
mean: 11.3065 > 6.2857 , median: 8 > 4
- UP_INTRONS_TAF2 vs CS : 7.35608e-06
mean: 11.3065 < 16.4752 , median: 8 < 12.5
- UP_INTRONS_TAF2dIDR vs CR : 0.000982872
mean: 10.8667 > 6.2857 , median: 9 > 4
- UP_INTRONS_TAF2dIDR vs CS : 7.50743e-05
mean: 10.8667 < 16.4752 , median: 9 < 12.5
- DOWN_INTRONS_BOTH vs CR : 0.00545892
mean: 9.8438 > 6.2857 , median: 8 > 4
- DOWN_INTRONS_BOTH vs CS : 0.00195441
mean: 9.8438 < 16.4752 , median: 8 < 12.5
- DOWN_INTRONS_TAF2 vs CR : 0.0402513
mean: 8.1613 > 6.2857 , median: 5 > 4
- DOWN_INTRONS_TAF2 vs AS_NC : 7.48263e-06
mean: 8.1613 < 12.7339 , median: 5 < 10

- DOWN_INTRONS_TAF2 vs CS : 3.674e-10
mean: 8.1613 < 16.4752 , median: 5 < 12.5
- DOWN_INTRONS_TAF2dIDR vs CR : 0.00143327
mean: 11.4412 > 6.2857 , median: 8.5 > 4
- DOWN_INTRONS_TAF2dIDR vs CS : 0.000287274
mean: 11.4412 < 16.4752 , median: 8.5 < 12.5
- CR vs AS_NC : 2.5395e-08
mean: 6.2857 < 12.7339 , median: 4 < 10
- CR vs CS : 3.87834e-12
mean: 6.2857 < 16.4752 , median: 4 < 12.5
- AS_NC vs CS : 6.35515e-12
mean: 12.7339 < 16.4752 , median: 10 < 12.5

6.33 INTRON MEDIANRELATIVERANK

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Meaning: similar to INTRON MEDIANRANK, relative rank = rank / number of all introns in transcript, is between 0 and 1



Significant results from Mann-Whitney U test:

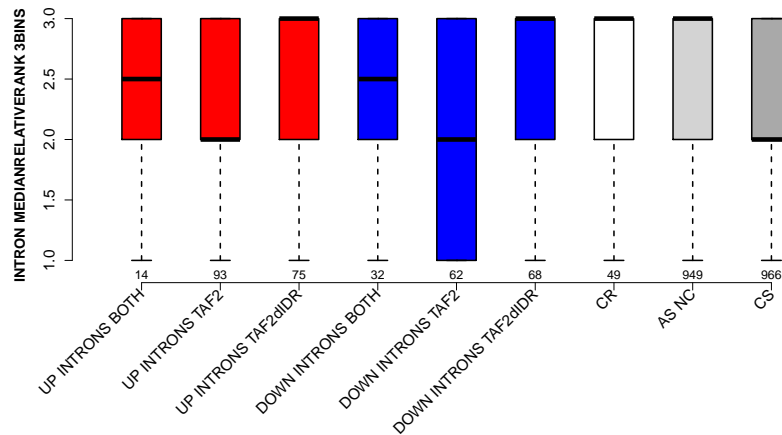
- UP_INTRONS_TAF2 vs UP_INTRONS_TAF2dIDR : 0.0104936
mean: 0.610678 < 0.717277 , median: 0.583333 < 0.729532
- UP_INTRONS_TAF2 vs CR : 0.000110072
mean: 0.610678 < 0.787237 , median: 0.583333 < 1
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_TAF2 : 0.0438782
mean: 0.717277 > 0.601119 , median: 0.729532 > 0.567506
- UP_INTRONS_TAF2dIDR vs CR : 0.0259357
mean: 0.717277 < 0.787237 , median: 0.729532 < 1
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.0352525
mean: 0.717277 > 0.649585 , median: 0.729532 > 0.692105
- UP_INTRONS_TAF2dIDR vs CS : 9.13426e-06
mean: 0.717277 > 0.576095 , median: 0.729532 > 0.590972
- DOWN_INTRONS_BOTH vs CR : 0.0040002
mean: 0.618575 < 0.787237 , median: 0.633333 < 1
- DOWN_INTRONS_TAF2 vs CR : 0.000892887
mean: 0.601119 < 0.787237 , median: 0.567506 < 1
- DOWN_INTRONS_TAF2dIDR vs CR : 0.00152501
mean: 0.628382 < 0.787237 , median: 0.695685 < 1

- CR vs AS_NC : 3.6448e-05
mean: 0.787237 > 0.649585 , median: 1 > 0.692105
- CR vs CS : 6.74798e-08
mean: 0.787237 > 0.576095 , median: 1 > 0.590972
- AS_NC vs CS : 1.47703e-09
mean: 0.649585 > 0.576095 , median: 0.692105 > 0.590972

6.34 INTRON MEDIANRELATIVERANK 3BINS

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Meaning: median bin into which INTRON MEDIANRELATIVERANK falls when binning 0-1 into 3 bins



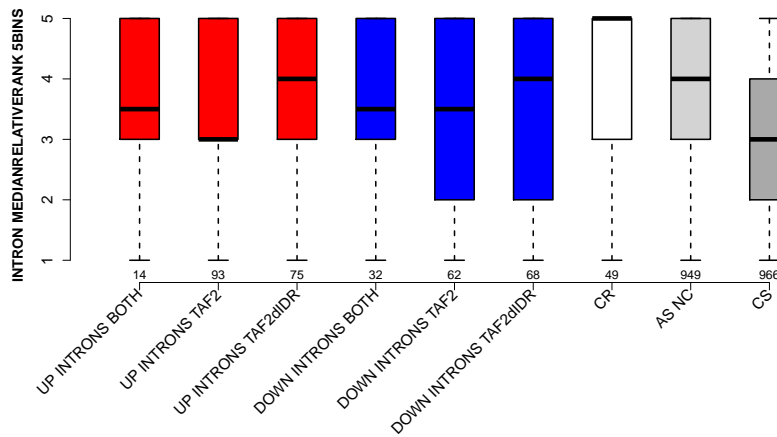
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs UP_INTRONS_TAF2dIDR : 0.0168934
mean: 2.3333 < 2.5733 , median: 2 < 3
- UP_INTRONS_TAF2 vs CR : 0.0297599
mean: 2.3333 < 2.5714 , median: 2 < 3
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_TAF2 : 0.0121434
mean: 2.5733 > 2.2258 , median: 3 > 2
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.0447276
mean: 2.5733 > 2.3962 , median: 3 = 3
- UP_INTRONS_TAF2dIDR vs CS : 2.70872e-05
mean: 2.5733 > 2.2039 , median: 3 > 2
- DOWN_INTRONS_TAF2 vs CR : 0.022044
mean: 2.2258 < 2.5714 , median: 2 < 3
- CR vs CS : 0.00048695
mean: 2.5714 > 2.2039 , median: 3 > 2
- AS_NC vs CS : 4.47311e-09
mean: 2.3962 > 2.2039 , median: 3 > 2

6.35 INTRON MEDIANRELATIVERANK 5BINS

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Meaning: similar to INTRON MEDIANRELATIVERANK 3BINS with 5 bins



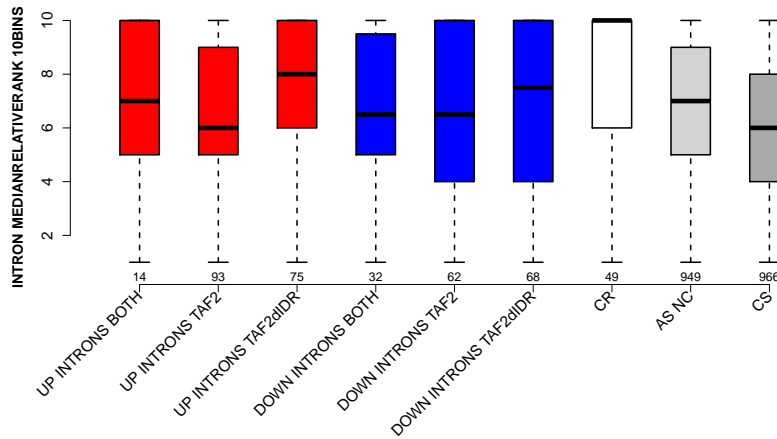
Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs UP_INTRONS_TAF2dIDR : 0.0123406
mean: 3.4731 < 3.9467 , median: 3 < 4
- UP_INTRONS_TAF2 vs CR : 0.000559423
mean: 3.4731 < 4.1633 , median: 3 < 5
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_TAF2 : 0.0476399
mean: 3.9467 > 3.4032 , median: 4 > 3.5
- UP_INTRONS_TAF2dIDR vs CS : 6.46813e-05
mean: 3.9467 > 3.3437 , median: 4 > 3
- DOWN_INTRONS_BOTH vs CR : 0.0204464
mean: 3.5 < 4.1633 , median: 3.5 < 5
- DOWN_INTRONS_TAF2 vs CR : 0.00468559
mean: 3.4032 < 4.1633 , median: 3.5 < 5
- DOWN_INTRONS_TAF2dIDR vs CR : 0.0109438
mean: 3.5588 < 4.1633 , median: 4 < 5
- CR vs AS_NC : 0.00135058
mean: 4.1633 > 3.6786 , median: 5 > 4
- CR vs CS : 3.21625e-06
mean: 4.1633 > 3.3437 , median: 5 > 3
- AS_NC vs CS : 5.56003e-09
mean: 3.6786 > 3.3437 , median: 4 > 3

6.36 INTRON MEDIANRELATIVERANK 10BINS

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Meaning: similar to INTRON MEDIANRELATIVERANK 3BINS with 10 bins



Significant results from Mann-Whitney U test:

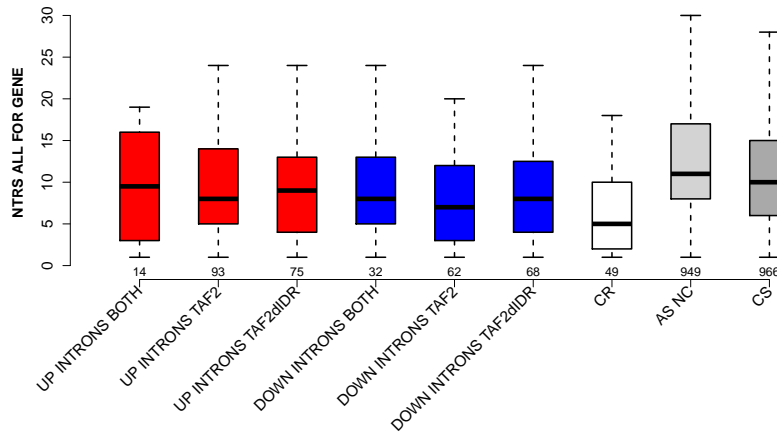
- UP_INTRONS_TAF2 vs UP_INTRONS_TAF2dIDR : 0.00752563
mean: 6.5484 < 7.5867 , median: 6 < 8
- UP_INTRONS_TAF2 vs CR : 0.000109109
mean: 6.5484 < 8.1429 , median: 6 < 10
- UP_INTRONS_TAF2dIDR vs CR : 0.03412
mean: 7.5867 < 8.1429 , median: 8 < 10
- UP_INTRONS_TAF2dIDR vs AS_NC : 0.0369228
mean: 7.5867 > 6.9442 , median: 8 > 7
- UP_INTRONS_TAF2dIDR vs CS : 1.46713e-05
mean: 7.5867 > 6.2588 , median: 8 > 6
- DOWN_INTRONS_BOTH vs CR : 0.00649095
mean: 6.7188 < 8.1429 , median: 6.5 < 10
- DOWN_INTRONS_TAF2 vs CR : 0.00224581
mean: 6.5 < 8.1429 , median: 6.5 < 10
- DOWN_INTRONS_TAF2dIDR vs CR : 0.00202576
mean: 6.75 < 8.1429 , median: 7.5 < 10
- CR vs AS_NC : 8.77334e-05
mean: 8.1429 > 6.9442 , median: 10 > 7
- CR vs CS : 2.01587e-07
mean: 8.1429 > 6.2588 , median: 10 > 6

- AS_NC vs CS : 4.90923e-09
mean: 6.9442 > 6.2588 , median: 7 > 6

6.37 NTRS ALL FOR GENE

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Meaning: number of transcripts of gene where the intron occurs in



Significant results from Mann-Whitney U test:

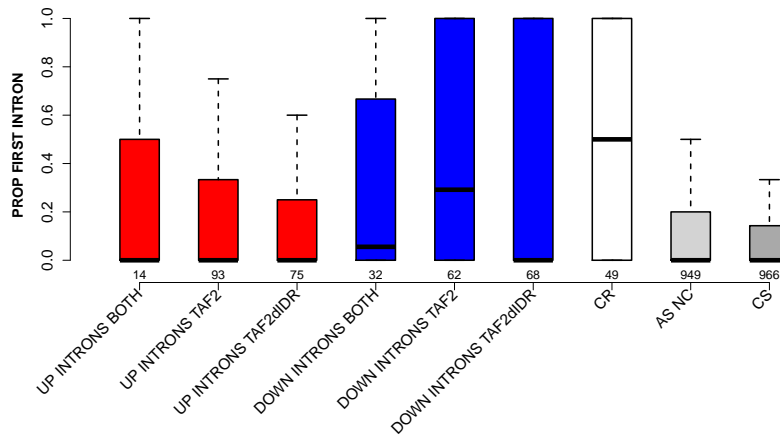
- UP_INTRONS_TAF2 vs CR : 0.00249495
mean: 10.1613 > 7.0204 , median: 8 > 5
- UP_INTRONS_TAF2 vs AS_NC : 1.81521e-05
mean: 10.1613 < 13.1423 , median: 8 < 11
- UP_INTRONS_TAF2 vs CS : 0.0239366
mean: 10.1613 < 11.266 , median: 8 < 10
- UP_INTRONS_TAF2dIDR vs CR : 0.0291568
mean: 9.4667 > 7.0204 , median: 9 > 5
- UP_INTRONS_TAF2dIDR vs AS_NC : 1.10536e-05
mean: 9.4667 < 13.1423 , median: 9 < 11
- UP_INTRONS_TAF2dIDR vs CS : 0.00718851
mean: 9.4667 < 11.266 , median: 9 < 10
- DOWN_INTRONS_BOTH vs CR : 0.0102129
mean: 10.25 > 7.0204 , median: 8 > 5
- DOWN_INTRONS_BOTH vs AS_NC : 0.0150269
mean: 10.25 < 13.1423 , median: 8 < 11
- DOWN_INTRONS_TAF2 vs AS_NC : 6.53129e-08
mean: 7.8871 < 13.1423 , median: 7 < 11
- DOWN_INTRONS_TAF2 vs CS : 0.000112886
mean: 7.8871 < 11.266 , median: 7 < 10

- DOWN_INTRONS_TAF2dIDR vs CR : 0.0162222
mean: 10.3529 > 7.0204 , median: 8 > 5
- DOWN_INTRONS_TAF2dIDR vs AS_NC : 0.000161545
mean: 10.3529 < 13.1423 , median: 8 < 11
- DOWN_INTRONS_TAF2dIDR vs CS : 0.0273534
mean: 10.3529 < 11.266 , median: 8 < 10
- CR vs AS_NC : 2.7049e-10
mean: 7.0204 < 13.1423 , median: 5 < 11
- CR vs CS : 2.70254e-07
mean: 7.0204 < 11.266 , median: 5 < 10
- AS_NC vs CS : 7.55967e-08
mean: 13.1423 > 11.266 , median: 11 > 10

6.38 PROP FIRST INTRON

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Meaning: NTRS WITH INTRON AS FIRST INTRON / NTRS WITH INTRON



Significant results from Mann-Whitney U test:

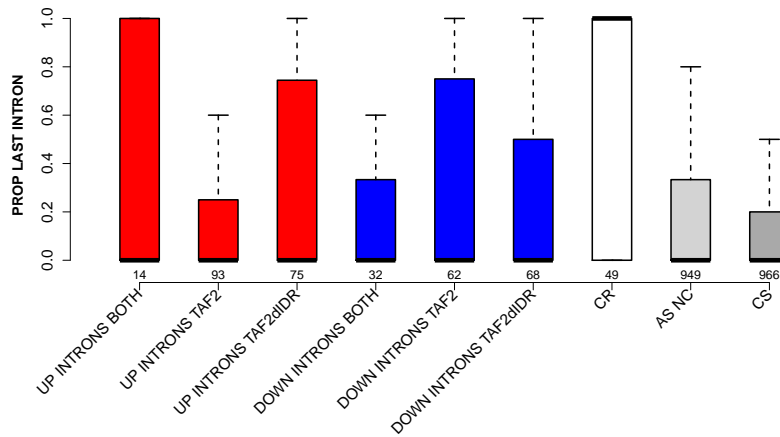
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2 : 0.00685859
mean: 0.244682 < 0.418088 , median: 0 < 0.291667
- UP_INTRONS_TAF2 vs CR : 0.00797048
mean: 0.244682 < 0.489456 , median: 0 < 0.5
- UP_INTRONS_TAF2 vs CS : 0.014602
mean: 0.244682 > 0.122024 , median: 0 = 0
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_TAF2 : 0.0131798
mean: 0.244679 < 0.418088 , median: 0 < 0.291667
- UP_INTRONS_TAF2dIDR vs CR : 0.0193626
mean: 0.244679 < 0.489456 , median: 0 < 0.5
- UP_INTRONS_TAF2dIDR vs CS : 0.0162891
mean: 0.244679 > 0.122024 , median: 0 = 0
- DOWN_INTRONS_BOTH vs CS : 0.00741715
mean: 0.299826 > 0.122024 , median: 0.0555556 > 0
- DOWN_INTRONS_TAF2 vs AS_NC : 1.2273e-06
mean: 0.418088 > 0.158179 , median: 0.291667 > 0
- DOWN_INTRONS_TAF2 vs CS : 1.25144e-09
mean: 0.418088 > 0.122024 , median: 0.291667 > 0
- DOWN_INTRONS_TAF2dIDR vs CS : 0.0122724
mean: 0.308502 > 0.122024 , median: 0 = 0

- CR vs AS_NC : 4.14762e-05
mean: 0.489456 > 0.158179 , median: 0.5 > 0
- CR vs CS : 3.50239e-07
mean: 0.489456 > 0.122024 , median: 0.5 > 0
- AS_NC vs CS : 0.000628243
mean: 0.158179 > 0.122024 , median: 0 = 0

6.39 PROP LAST INTRON

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Meaning: NTRS WITH INTRON AS LAST INTRON / NTRS WITH INTRON



Significant results from Mann-Whitney U test:

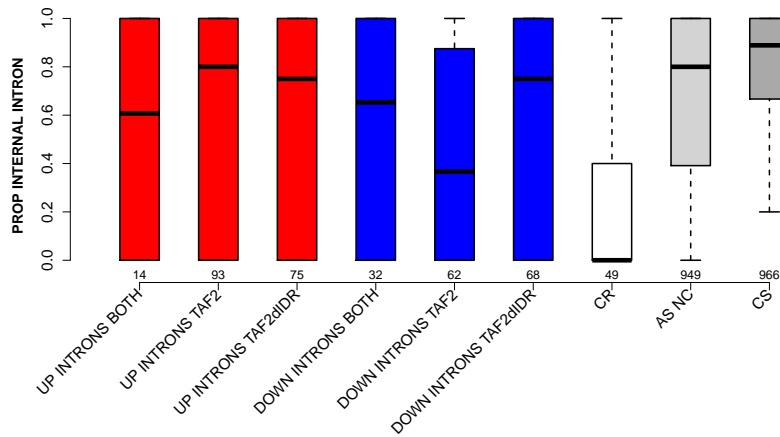
- UP_INTRONS_BOTH vs CR : 0.0285155
mean: 0.303571 < 0.62619 , median: 0 < 1
- UP_INTRONS_TAF2 vs CR : 7.8275e-06
mean: 0.224662 < 0.62619 , median: 0 < 1
- UP_INTRONS_TAF2dIDR vs CR : 0.000605189
mean: 0.307727 < 0.62619 , median: 0 < 1
- UP_INTRONS_TAF2dIDR vs CS : 0.00580025
mean: 0.307727 > 0.152926 , median: 0 = 0
- DOWN_INTRONS_BOTH vs CR : 0.000668066
mean: 0.234375 < 0.62619 , median: 0 < 1
- DOWN_INTRONS_TAF2 vs CR : 0.000371248
mean: 0.292672 < 0.62619 , median: 0 < 1
- DOWN_INTRONS_TAF2 vs CS : 0.0376841
mean: 0.292672 > 0.152926 , median: 0 = 0
- DOWN_INTRONS_TAF2dIDR vs CR : 0.000213869
mean: 0.275206 < 0.62619 , median: 0 < 1
- DOWN_INTRONS_TAF2dIDR vs CS : 0.02613
mean: 0.275206 > 0.152926 , median: 0 = 0
- CR vs AS_NC : 1.77408e-07
mean: 0.62619 > 0.237764 , median: 1 > 0

- CR vs CS : 6.34572e-12
mean: 0.62619 > 0.152926 , median: 1 > 0
- AS_NC vs CS : 5.66807e-09
mean: 0.237764 > 0.152926 , median: 0 = 0

6.40 PROP INTERNAL INTRON

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Meaning: NTRS WITH INTRON AS INTERNAL INTRON / NTRS WITH INTRON



Significant results from Mann-Whitney U test:

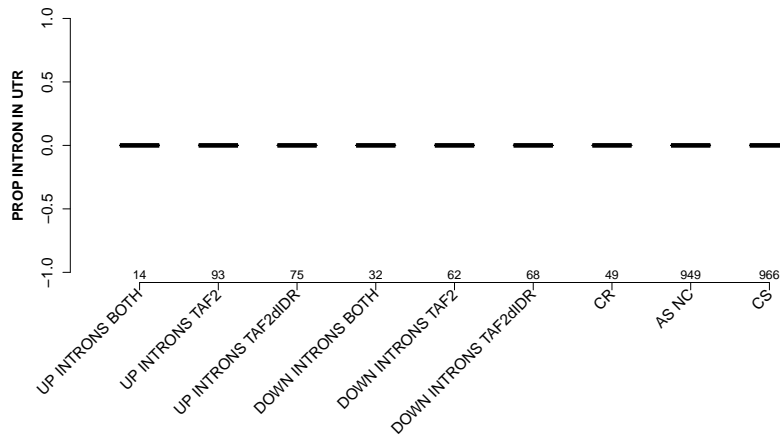
- UP_INTRONS_BOTH vs CR : 0.0274617
mean: 0.517857 > 0.242857 , median: 0.607143 > 0
- UP_INTRONS_TAF2 vs DOWN_INTRONS_TAF2 : 0.00997574
mean: 0.608499 > 0.431917 , median: 0.8 > 0.366667
- UP_INTRONS_TAF2 vs CR : 9.31319e-06
mean: 0.608499 > 0.242857 , median: 0.8 > 0
- UP_INTRONS_TAF2 vs CS : 0.0081457
mean: 0.608499 < 0.750345 , median: 0.8 < 0.888889
- UP_INTRONS_TAF2dIDR vs CR : 0.000147939
mean: 0.579202 > 0.242857 , median: 0.75 > 0
- UP_INTRONS_TAF2dIDR vs CS : 0.000770041
mean: 0.579202 < 0.750345 , median: 0.75 < 0.888889
- DOWN_INTRONS_BOTH vs CR : 0.00175363
mean: 0.536062 > 0.242857 , median: 0.652778 > 0
- DOWN_INTRONS_BOTH vs CS : 0.0039546
mean: 0.536062 < 0.750345 , median: 0.652778 < 0.888889
- DOWN_INTRONS_TAF2 vs CR : 0.013392
mean: 0.431917 > 0.242857 , median: 0.366667 > 0
- DOWN_INTRONS_TAF2 vs AS_NC : 0.000260022
mean: 0.431917 < 0.647068 , median: 0.366667 < 0.8

- DOWN_INTRONS_TAF2 vs CS : 1.13222e-08
mean: 0.431917 < 0.750345 , median: 0.366667 < 0.888889
- DOWN_INTRONS_TAF2dIDR vs CR : 0.00018571
mean: 0.568196 > 0.242857 , median: 0.75 > 0
- DOWN_INTRONS_TAF2dIDR vs CS : 0.00140288
mean: 0.568196 < 0.750345 , median: 0.75 < 0.888889
- CR vs AS_NC : 1.58787e-08
mean: 0.242857 < 0.647068 , median: 0 < 0.8
- CR vs CS : 1.2596e-12
mean: 0.242857 < 0.750345 , median: 0 < 0.888889
- AS_NC vs CS : 1.08108e-10
mean: 0.647068 < 0.750345 , median: 0.8 < 0.888889

6.41 PROP INTRON IN UTR

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Meaning: NTRS WITH INTRON IN UTR / NTRS WITH INTRON



Significant results from Mann-Whitney U test:

- UP_INTRONS_TAF2 vs CS : 0.0101564
mean: 0.0289444 > 0.0111757 , median: 0 = 0
- UP_INTRONS_TAF2dIDR vs DOWN_INTRONS_TAF2 : 0.032824
mean: 0.0163889 < 0.0544652 , median: 0 = 0
- DOWN_INTRONS_TAF2 vs CS : 0.00193933
mean: 0.0544652 > 0.0111757 , median: 0 = 0
- AS_NC vs CS : 0.00606231
mean: 0.0200644 > 0.0111757 , median: 0 = 0