# Anaquin: TransQuin Report

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#### TransQuin Alignment

#### Summary statistics for: A1

Gene: 0.026316

```
Summary for file: K_RMXA1v2.accepted_hits.bam
  Unmapped:
             0 reads
  Experiment: 11440146 (23.8709%) reads
  Synthetic: 36484961 (76.1291%) reads
  Reference: 1190 exons
  Reference: 1028 introns
  Reference: 149219 bases
  Query:
            85464855 exons
  Query: 32195352 introns
Query: 161775 bases
  Dilution: 0.761291
  *** The following statistics are computed at the exon, intron and base level.
  *** Exon level is defined by performance per exon. An alignment that
  *** is not mapped entirely within an exon is considered as a FP. The
  *** intron level is similar.
  ***
  *** Base level is defined by performance per nucleotide. A partial
  *** mapped read will have FP and TP.
  ----- Exon level ------
  Sensitivity: 0.997479
  Specificity: 0.976043
  Detection: 0.0590086 (R2_33)
  ----- Intron level -----
  Sensitivity: 0.993191
  Specificity: 0.840372
  Detection: 0.0590086 (R2_33)
  ----- Base level -----
  Sensitivity: 0.691812
  Specificity: 0.932919
  Detection: 0.0590086 (R2_33)
  ----- Undetected -----
  Exon: 0.002521
  Intron: 0.006809
```

#### Sequin statistics for: A1

```
ID Covered Sensitivity (Exon) Specificity (Exon) Sensitivity (Intron)
                                                                  Specificity (Intron)
R1_101 0.845083
               1 0.999532 1 1 0.845083 0.998971
R1_102 0.721599
                 1
                   0.994156
                               1 0.901155
                                           0.721599
                                                        0.998544
R1 103 0.628255
               1 0.995319 1 0.977373
                                             0.628255
                                                        0.99561
R1 11
                 1
                               1 0.998818
                                             0.645833
      0.645833
                    0.998799
                                                        0.997923
R1_12
      0.591978
                 1
                    0.992884
                               1 0.9983 0.591978 0.997669
R1_13
      0.920394
                     0.987685
                               0.909091
                                        0.946898
                                                    0.920394
                                                               0.995898
                 1
                     -- -- 1
R1_14
      1 0.999823
                               0.995502
                                          1
R1_21
      0.630945
                     0.993234
                               1 0.916456
                                             0.630945
                                                        0.942446
               1
R1_22
      0.528054
                    0.998358
                               1 0.0416689 0.528054
                                                        0.993191
R1_23
      0.608499
                    0.988379 1 0.00621383 0.608499
                                                        0.997146
                 1
R1 24
                    0.995249 1 0.998266
      0.999782 1
                                             0.999782
                                                        0.997819
R1_31
                               1 0.244225
                                             0.688293
      0.688293
                 1
                    0.995473
                                                        0.994565
R1_32
      0.545455
                    0.999737
                               1
                                  1 0.545455 0.99894
                 1
                               1 0.994169
                                             0.899202
R1 33
      0.899202
                     0.993455
                                                        0.998359
                 1
R1 41
      0.78125 1
                 0.996675 1
                               0.999808
                                         0.78125 0.995575
R1_42
                               1 0.976687 0.617479 0.988844
      0.617479
                 1
                    0.980681
                    0.990501
R1_43
      0.540369
                 1
                               0.973684 0.96341 0.540369 0.996994
R1_51
      0.607103
                    0.996288
                               1 0.999373
                                             0.607103
                                                        0.993542
                 1
R1_52
      0.622807
                     0.991475
                               1 1 0.622807
                                                 0.971446
                 1
                               0.370359
R1_53
                     0.99784 1
                                        0.998489 0.996482
      0.998489
                 1
R1_61
                               0.679466
      0.679466
                 1
                    1 1 1
                                          1
R1_62
      0.774336
                    1 1 1
                               0.774336
                                          1
R1_63
      0.669443
                     0.995492
                               1 0.971203
                                             0.669443
                                                        0.995741
R1_71
                     0.994243
                               1 0.998708
      0.740968
                                             0.740968
                                                        0.987705
R1_{72}
      0.582844
                    1 1 1
                               0.582844
                 1
                                        1
R1 73
                               1 0.98719 0.731952
                                                    0.996865
      0.731952 1
                     0.984041
                                                    0.996849
R1_81
      0.747244
                     0.99754 1
                               0.995044
                                        0.747244
R1_82
      0.587741
                     0.995744
                               1 0.992876
                                             0.587741
                                                        0.991501
R1_83
      0.644813
                     0.998373
                               1 0.997866
                                             0.644813
                                                        0.997613
                 1
R1_91
      0.685055
                    1 1 1
                               0.685055
R1_92
                                                        0.99513
                     0.980772
                               1 0.995753
                                             0.777919
      0.777919
                 1
R1 93
      0.625086
                     0.996054
                               1 0.999554
                                             0.625086
                                                        0.996156
                    0.99196 1
R2 1
      1 1 -- --
                               0.99196
R2_105 1 0.967742
                     -- -- 0.874667 0.99696 0.874667
R2_115 0.837412
                     0.988931
                               1 0.996079
                                             0.837412
                                                        0.923815
                 1
                               1 1 0.584726 0.997557
R2_116 0.584726
                     0.987644
                 1
R2_117 0.711066
                    0.999248 1 0.998209 0.711066
                                                        0.996411
R2 14
                    0.988252 1 0.987247
      0.719569
                                             0.719569
                                                        0.991507
R2_150 0.835063
                    0.998167 1 0.518953
                                            0.835063
                                                        0.991781
R2_151 0.578303
                 1
                    0.983911
                               1 0.000681453 0.578303
                                                        0.999244
R2_152 0.603856
                    0.99729 1 0.0120943 0.603856
                                                    0.998386
R2_153 0.677873
                     0.995311
                                   0.359343
                                             0.677873
                               1
                                                        0.999099
                 1
R2 154 0.855658
                    0.989621
                                   0.547718
                 1
                               1
                                             0.855658
                                                        0.994631
R2_18
      0.628326
                 1
                    0.9853 1
                               0.852844
                                         0.628326
                                                    0.985276
R2 19
                                   0.98788 0.811493
                                                    0.998432
      0.811493
                     0.992328
                               1
R2_20
      0.735871
                     0.997986
                               1
                                   0.997017
                                             0.735871
                                                        0.997394
R2_24
      0.586003
                 0.979592 0.991056 0.957447 0.693273 0.586003
                                                                      0.998239
R2_26
      0.916638
                    0.994978
                               1 0.994222
                                             0.916638
                                                        0.997942
                 1
R2 27
      0.754167
                 1
                     0.995777
                               1
                                   1 0.754167
                                                 0.999606
R2 28
                 1
      0.68506 1
                    1 1 0.68506 1
R2_{32}
      0.671486
                     0.98234 1 1 0.671486
                                             0.997715
```

```
R2 33
     0.719465 1
R2_37
               0.993295 1 0.982877 0.719465 0.998428
R2 38
     0.391233 1
               0.989899 1 1 0.391233 0.995805
R2_41
     0.837384 1 0.991692 1 0.995112 0.837384 0.989443
R2_42 0.882171 1 0.998311 1 1 0.882171 0.999561
R2_45 0.462072 1 1 1 1 0.462072 1
     0.688515 1 0.993056 1 1 0.688515 0.967061
R2 46
R2 47
     0.887733 1 0.996614 1 0.997939 0.887733 0.998675
     0.396308 1 0.989455 1 0.997009 0.396308 0.997744
R2 53
R2_54  0.864703  1  0.982539  1  0.996987  0.864703  0.996936
R2_55
     0.880804 1 0.987179 1 0.873955 0.880804
                                         0.99142
0.702025 1 0.996212 1 0.990037 0.702025
R2_6
                                         0.98913
R2_60
     0.605403 1 0.996636 1 1 0.605403 0.997073
            1 0.987448 1 0.997983 0.879982 0.997517
R2_63
     0.879982
R2_65
     1 1 -- -- 0.995595 1 0.995595
     0.529254 1 0.999748 1 0.999936 0.529254
R2 66
                                         0.985015
     0.959847 1 1 1 1 0.959847 1
R2_67
     R2_68
     R2_7
R2_71  0.72861 1  0.986272  1  1  0.72861 0.998168
R2_72  0.320416  0.866667  0.993094  0.727273  1  0.320416
                                             0.99815
R2_73  0.94562 1  0.988466  1  0.996508  0.94562 0.999279
R2_76 0.470652 1 1 1 1
                       0.470652 1
```

Summary for file: K\_RMXA2v2.accepted\_hits.bam Unmapped: 0 reads Experiment: 10700630 (23.3808%) reads Synthetic: 35066089 (76.6192%) reads Reference: 1190 exons Reference: 1028 introns Reference: 149219 bases Query: 82814262 exons Query: 34992686 introns Query: 162619 bases Dilution: 0.766192 \*\*\* The following statistics are computed at the exon, intron and base level. \*\*\* \*\*\* Exon level is defined by performance per exon. An alignment that \*\*\* is not mapped entirely within an exon is considered as a FP. The \*\*\* intron level is similar. \*\*\* \*\*\* Base level is defined by performance per nucleotide. A partial \*\*\* mapped read will have FP and TP. \*\*\* ----- Exon level ------Sensitivity: 0.997479 Specificity: 0.974098 Detection: 0.0590086 (R2\_33) ----- Intron level -----Sensitivity: 0.986381 Specificity: 0.745193 Detection: 0.0590086 (R2\_33) ----- Base level -----Sensitivity: 0.691909 Specificity: 0.928206 Detection: 0.0590086 (R2\_33) ----- Undetected -----Exon: 0.002521 Intron: 0.013619 Gene: 0.026316

#### Sequin statistics for: A2

```
ID Covered Sensitivity (Exon) Specificity (Exon) Sensitivity (Intron)
                                                                        Specificity (Intron)
R1_101 0.843342
                      0.997495
                               1 0.995816
                                                             0.995889
                1
                                                 0.843342
R1_102 0.721599
                  1
                      0.995219
                                  1
                                     0.00552418 0.721599
                                                             0.998544
R1 103 0.628532
                      0.995586
                                     0.185487
                                                 0.628532
                  1
                                  1
                                                             0.995612
R1 11
                                     0.0529042
       0.647177
                      0.999245
                                  1
                                                 0.647177
                                                             0.997927
                  1
R1_12
       0.590595
                  1
                      0.9933 0.956522 1 0.590595
                                                         0.998247
R1_13
       0.920394
                      0.988579
                                  0.909091
                                             0.661924
                                                         0.920394
                                                                    0.995082
                  1
R1_14
           0.999844
                      -- -- 1
                                  0.991045
                                             1
R1_21
       0.630945
                      0.994394
                                  1 0.942939
                                                 0.630945
                                                             0.942446
                  1
R1_22
                      0.998493
       0.527602
                                  1
                                     0.101617
                                                 0.527602
                                                             0.994032
R1_23
       0.604667
                      0.989406
                                  1 0.0153541
                                                 0.604667
                                                             0.997701
                   1
R1 24
       1 1
               0.995351 1
                              0.995767
                                         1
                                             0.99782
R1_31
                                     0.998694
       0.687823
                   1
                      0.994739
                                  1
                                                 0.687823
                                                             0.995916
R1_32
       0.545455
                   1
                      0.998386
                                  1
                                      1 0.545455
                                                     0.995772
                                     0.99726 0.911321
R1 33
       0.911321
                      0.998728
                                  1
                                                         0.999676
                   1
R1 41
       0.78125 1
                  0.996939
                                  0.932387
                                             0.78125 0.994695
                              1
R1_42
                                  1 0.891942
                                                 0.617479
       0.617479
                   1
                      0.981914
                                                             0.986842
R1_43
       0.541274
                  1
                      0.990613
                                  0.973684 0.989699
                                                         0.541274
                                                                    0.996335
R1_51
       0.607103
                      0.995118
                                  1 0.988762
                                                 0.607103
                                                             0.99446
                  1
R1_52
       0.623188
                      0.979032
                                     0.992218
                                                 0.623188
                                                             0.977858
                  1
                                  1
R1_53
       0.998489
                      0.995792
                                  1 0.726932
                                                 0.998489
                                                             0.996983
                  1
                                  0.00262261 0.676962
R1_61
       0.676962
                  1
                      0.99811 1
                                                         0.998768
R1_62
       0.767383
                      0.992147
                                  1 0.00112939 0.767383
                                                             0.999177
R1_63
       0.669964
                      0.995761
                                  1
                                     0.964477
                                                 0.669964
                                                             0.995745
R1_71
                      0.993449
                                     0.964899
       0.740968
                                  1
                                                 0.740968
                                                             0.987705
R1_{72}
       0.600451
                      1 1 0.000569401 0.600451
                  1
                                                   1
R1 73
                                  0.96
                                        0.531614
       0.732371
                      0.989559
                                                     0.732371
                                                                0.996583
R1_81
       0.747244
                      0.998029
                                  1 0.994022
                                                 0.747244
                                                             0.996849
                  1
R1_82
       0.587741
                      0.992549
                                  1
                                     0.995822
                                                 0.587741
                                                             0.991501
R1_83
       0.645199
                      0.999418
                                  1
                                     0.999628
                                                 0.645199
                                                             0.99702
                  1
R1_91
       0.685696
                      1 1 1
                                  0.685696
R1_92
                      0.980355
                                     0.995561
                                                 0.781726
                                                             0.995153
       0.781726
                                  1
                   1
R1 93
       0.625086
                      0.996684
                                     0.998378
                                                 0.625086
                                                             0.996156
                                  1
                      0.98995 1
R2 1
           1
                                  0.98995
       1
R2_105 1
           1
                      0.68
                                  0.68
R2_115 0.840131
                      0.989271
                                  1 0.996256
                                                 0.840131
                                                             0.99549
                   1
R2_116 0.524582
                      0.996665
                                  1 1 0.524582
                                                     0.998183
                  1
                                  1 0.999328
R2_117 0.710041
                      0.999708
                                                 0.710041
                                                             0.997122
                   1
R2 14
                                     0.737964
       0.719569
                   1
                      0.988161
                                  1
                                                 0.719569
                                                             0.991507
R2_150 0.835448
                                  1 0.673702
                                                 0.835448
                                                             0.991785
                      0.998619
R2_151 0.565179
                  1
                      0.981308
                                  0.85 0.00120631 0.565179 0.998454
R2_152 0.603368
                      0.998585
                                                 0.603368
                                     0.028801
                                                             0.997981
                      0.981132
R2_153 0.669927
                                     1 0.669927
                                                     0.999088
                  1
                                  1
R2 154 0.855658
                                     0.753071
                  1
                      0.986231
                                  1
                                                 0.855658
                                                             0.994631
R2_18
       0.628326
                  1
                      0.982418
                                  1
                                     0.932695
                                                 0.628326
                                                             0.986486
R2 19
       0.811493
                      0.994275
                                  1
                                     0.395306
                                                 0.811493
                                                             0.998717
                                     0.998462
R2_20
       0.732026
                      0.998159
                                  1
                                                 0.732026
                                                             0.998951
R2_24
       0.586299
                  0.979592
                              0.987268
                                         0.957447
                                                     0.764632
                                                                0.586299
                                                                            0.998994
                                                 0.916638
R2_26
       0.916638
                      0.994996
                                  1 0.995074
                  1
                                                             0.997755
       0.750595
R2 27
                  1
                      0.994545
                                  1
                                     1 0.750595
                                                     0.999208
R2 28
                  1
                                     1
       0.686747
                      0.996957
                                         0.686747
                                                     0.979381
                                  1
R2_32
       0.671486
                      0.992126
                                  1 1 0.671486
                                                     0.998171
```

```
R2 33
     0.90106 1 1 1 1 0.90106 1
     0.719239 1 1 1 1 0.719239 1
R2_37
R2 38
                         1 1 0.399143 0.998351
     0.399143 1
                0.984831
R2_41
     0.839171 1
                0.991918
                         1 0.998755 0.839171 0.990299
     0.874031 1
                1 1 1 0.874031 1
R2_42
R2 45 0.464239 1
                0.999817
                         1 0.998319
                                    0.464239
                                             0.999689
R2 46
     0.70475 1 0.988748 1 1 0.70475 0.967396
R2 47
                0.997391 1 0.998014
                                    0.887733
     0.887733 1
                                             0.998675
     0.396487 1 0.997205 1 0.997577
                                    0.396487
R2 53
                                             0.999097
     0.864703 1 0.983372 1 0.996267 0.864703
R2_54
                                             0.997191
R2_55
     0.880804 1 0.987741 1 0.862818
                                    0.880804
                                             0.990647
     0.659591 1 0.996748 1 0.00525698 0.659591
R2_57
                                             0.998248
R2_59 0.583656 1 1 1 1 0.583656 1
     0.702989 1 0.998334 1 0.994613
R2_6
                                    0.702989
                                             0.995902
R2_60
     0.604692 1 0.996744 1 0.00539659 0.604692
                                             0.997069
              1 0.984499 1 0.985809
                                    0.884363
R2_63
     0.884363
                                             0.997037
R2_65
     1 1 -- -- 0.995595 1 0.995595
R2 66
                0.999748 1 0.999958
     0.529254 1
                                    0.529254
                                             0.985015
     0.992352 1 1 1 1 0.992352 1
R2_67
     R2_68
R2_7
     0.760474 1
                0.997273
                         1 0.999218 0.760474 0.993367
R2_71  0.69385 1  0.992081  1  0.992248  0.69385 0.997118
R2_72
     0.999124
     0.950398 1 0.991652 1 0.99652 0.950398 0.975023
R2_73
     0.477536 1 0.99809 1 1 0.477536
R2_76
                                    0.999242
```

Summary for file: K\_RMXA3v2.accepted\_hits.bam Unmapped: 0 reads Experiment: 9781841 (22.7411%) reads Synthetic: 33232155 (77.2589%) reads Reference: 1190 exons Reference: 1028 introns Reference: 149219 bases Query: 78415783 exons Query: 29409848 introns Query: 166617 bases Dilution: 0.772589 \*\*\* The following statistics are computed at the exon, intron and base level. \*\*\* \*\*\* Exon level is defined by performance per exon. An alignment that \*\*\* is not mapped entirely within an exon is considered as a FP. The \*\*\* intron level is similar. \*\*\* \*\*\* Base level is defined by performance per nucleotide. A partial \*\*\* mapped read will have FP and TP. \*\*\* ----- Exon level ------Sensitivity: 0.997479 Specificity: 0.971556 Detection: 0.0590086 (R2\_33) ----- Intron level -----Sensitivity: 0.992218 Specificity: 0.840566 Detection: 0.0590086 (R2\_33) ----- Base level -----Sensitivity: 0.696877 Specificity: 0.912440 Detection: 0.0590086 (R2\_33) ----- Undetected -----Exon: 0.002521 Intron: 0.007782 Gene: 0.026316

#### Sequin statistics for: A3

```
ID Covered Sensitivity (Exon) Specificity (Exon) Sensitivity (Intron)
                                                                     Specificity (Intron)
               1 0.999087 1 1 0.844212 0.99897
R1_101 0.844212
R1_102 0.723352
                1
                    0.995112
                                1 0.0284201 0.723352
                                                          0.998065
R1 103 0.629086
                    0.995227 1 0.535702
                                               0.629086
               1
                                                          0.99518
R1 11
                     0.998816 1 0.0505829
       0.646505
                                               0.646505
                                                          0.997925
                 1
R1_12
       0.591978
                 1
                     0.993087
                                1 0.999141
                                               0.591978
                                                          0.997669
R1_13
       0.920394
                     0.988092
                                0.909091
                                         0.909266
                                                      0.920394
                                                                 0.995082
                 1
R1_14
       1 0.999779
                     -- -- 1
                                0.995502
                                         1
R1_21
       0.630945
                     0.993913
                                1 0.951111
                                               0.630945
                                                          0.941599
                1
R1_22
                                               0.528054
       0.528054
                     0.998712
                                1
                                   0.201023
                                                          0.994037
R1_23
       0.610589
                     0.987265
                                1 0.0338936 0.610589
                                                          0.997156
                  1
R1 24
       1 1 0.995487 1 0.998898 1 0.99782
R1_31
       0.687823
                  1
                     0.994534
                                1
                                    0.998714
                                               0.687823
                                                          0.995916
R1_32
       0.544876
                  1
                     0.997818
                                1
                                    1 0.544876 0.995767
                                    0.996416
R1 33
       0.912504
                     0.997554
                                1
                                               0.912504
                  1
                                                          0.998706
R1 41
       0.78125 1
                  0.99667 1 0.999697
                                       0.78125 0.996457
R1_42
                     0.980701
       0.617479
                  1
                                1 0.897666
                                             0.617479
                                                          0.985844
R1_43
       0.540731
                  1
                     0.99053 0.973684 0.984815 0.540731 0.996331
R1_51
       0.607103
                     0.996042 1 0.992969
                                               0.607103
                                                          0.993542
                 1
R1_52
                     0.989971
       0.623951
                 1
                                1 1 0.623951
                                                  0.969769
R1_53
       0.998489
                     0.998404
                                    0.973515
                                               0.998489
                                                          0.996983
                  1
                                1
R1_61
       0.709516
                 1
                     0.993926
                                1 1 0.709516
                                                  0.998825
R1_62
       0.776233
                     1 1 1
                                0.776233
                                          1
R1_63
       0.669703
                     0.995554
                                1
                                    0.974728
                                               0.669703
                                                          0.995743
R1_71
                     0.993971
                                    0.988434
       0.740968
                                               0.740968
                                                          0.985685
R1_{72}
       0.604966
                     1 1 1
                                0.604966
                                         1
                 1
R1 73
                                0.96 0.986432
                                                0.731743
       0.731743
                     0.983855
                                                             0.996864
R1_81
       0.747638
                     0.996786
                                1 0.994027
                                               0.747638
                                                          0.99685
R1_82
       0.587741
                     0.992415
                                1 0.997628
                                               0.587741
                                                          0.993612
R1_83
       0.644427
                     0.997372
                                1 0.996722
                                               0.644427
                                                          0.998208
                  1
R1_91
       0.684413
                     0.998495
                                1 1 0.684413
                                                  0.998129
R1_92
                     0.980597
                                1 0.995994
                                               0.778765
       0.778765
                                                          0.995135
                  1
R1 93
       0.625086
                     0.995437
                                    0.998834
                                               0.625086
                                                          0.996703
                                1 0.994975
R2 1
       1 1 -- --
                     0.994975
R2 105 1
          0.979167
                     -- -- 0.981333 0.994595
                                                0.981333
R2_115 0.837955
                     0.989482
                                1 0.997475
                                               0.837955
                                                          0.923861
                 1
R2_116 0.583771
                     0.988752
                                1 1 0.583771 0.997553
                  1
R2_117 0.709016
                                   0.99934 0.709016
                                                      0.9964
                     0.999618
R2 14
                                   0.838494
       0.719569
                     0.989328
                                               0.719569
                                                          0.991507
R2_150 0.835832
                     0.997978
                                   0.821556
                                               0.835832
                                                          0.996334
R2_151 0.589676
                 1
                     0.990974
                                1 0.00596157 0.589676
                                                          0.997779
R2_152 0.603368
                     0.998327
                                   0.0588556
                                               0.603368
                                                          0.997981
R2_153 0.685208
                     0.995346
                                   0.983165
                                               0.685208
                                                          0.998219
                  1
                                1
R2 154 0.855658
                                    0.834231
                  1
                     0.986493
                                1
                                               0.855658
                                                          0.994631
R2_18
       0.628326
                 1
                     0.984271
                                1
                                    0.935806
                                               0.628326
                                                          0.986486
R2 19
       0.811493
                     0.994731
                                    0.753652
                                               0.811493
                                                          0.998574
R2_20
       0.733948
                     0.996812
                                1
                                    0.99733 0.733948 0.996347
R2_24
       0.586741
                  0.979592 0.990687 0.957447
                                                 0.842066
                                                            0.586741
                                                                         0.998743
R2_26
       0.916982
                     0.995763
                                1 0.994951
                                               0.916982
                                                          0.997942
R2 27
       0.755357
                  1
                     0.993405
                                1
                                    0.999065
                                               0.755357
                                                          0.998426
R2 28
       0.68988 1
                  0.999127
                                    0.68988 0.980144
                             1
                                1
R2_{32}
       0.671486
                     0.989034
                                1 1 0.671486 0.988678
```

```
R2 33
      0.727623 \qquad 1 \qquad 0.993796 \qquad 1 \qquad 0.993171 \qquad 0.727623 \qquad 0.997825
R2 37
R2 38 0.399473 1 0.995508 1 1 0.399473 0.998353
R2_41
      0.839171 1 0.992037 1 0.998985 0.839171 0.968247
R2_42 0.885659 1 0.997419 1 1 0.885659 0.949709
R2_45  0.464528  1  0.997782  1  1  0.464528  0.998447
R2 46 0.719784 1 0.99254 1 1 0.719784 0.967273

      0.888518
      1
      0.996762
      1
      0.996155
      0.888518
      0.998676

      0.397025
      1
      0.994321
      1
      0.994027
      0.397025
      0.997748

R2 47
R2 53
R2_54  0.864703  1  0.982499  1  0.997465  0.864703  0.997446
R2_55 0.880804 1 0.988265 1 0.838564 0.880804 0.990647
R2_57 0.659205 1 0.99747 1 0.00678764 0.659205 0.99883 R2_59 0.596415 1 0.9968 1 0.998424 0.596415 0.999459
R2_6 0.702025 1 0.995403 1 0.991333 0.702025 0.993179
R2_60 0.605759 1 0.995309 1 0.00940813 0.605759 0.997074
      0.884801 1 0.985674 1 0.988104 0.884801 0.996547
R2_63
R2_65
      1 0.997792 -- -- 0.994493 0.998894 0.994493
      R2 66
      0.967495 1 1 1 1 0.967495 1
R2_67
R2_68  0.717828  1  0.996747  1  0.998457  0.717828  0.999378
R2_7 0.76132 1 0.99719 1 0.999558 0.76132 0.994472
R2_71 0.916444 1 0.993642 1 0.997036 0.916444 0.986331
R2_72  0.347439  0.866667  0.991036  0.727273  1  0.347439  0.997017
R2_73  0.943572  1  0.985888  1  0.998646  0.943572  0.999759
R2_76  0.477536  1  0.994867  1  1  0.477536  0.998485
```

Summary for file: G\_RMXB1v2.accepted\_hits.bam Unmapped: 0 reads Experiment: 6299276 (15.7506%) reads Synthetic: 33694649 (84.2494%) reads Reference: 1190 exons Reference: 1028 introns Reference: 149219 bases Query: 86364151 exons Query: 42105718 introns Query: 158128 bases Dilution: 0.842494 \*\*\* The following statistics are computed at the exon, intron and base level. \*\*\* \*\*\* Exon level is defined by performance per exon. An alignment that \*\*\* is not mapped entirely within an exon is considered as a FP. The \*\*\* intron level is similar. \*\*\* \*\*\* Base level is defined by performance per nucleotide. A partial \*\*\* mapped read will have FP and TP. \*\*\* ----- Exon level ------Sensitivity: 0.993277 Specificity: 0.977562 Detection: 0.0590086 (R2\_33) ----- Intron level -----Sensitivity: 0.984436 Specificity: 0.793287 Detection: 1.88828 (R1\_72) ----- Base level -----Sensitivity: 0.683749 Specificity: 0.943312 Detection: 0.0590086 (R2\_33) ----- Undetected -----Exon: 0.006723 Intron: 0.015564 Gene: 0.052632

#### Sequin statistics for: B1

```
ID Covered Sensitivity (Exon) Specificity (Exon) Sensitivity (Intron) Specificity (Intron)
R1_101 0.787641 1 0.996774 1 1 0.787641 0.998896
              1 0.98946 1 0.108223 0.721248
R1_102 0.721248
                                                 0.999514
R1 103 0.627978 1 0.992978 1 0.959322
                                         0.627978
                                                     0.996484
R1 11
      0.644489 1 0.989534 1 1 0.644489 0.997919
      0.569848 1
0.920394 1
                1 0.992637
R1_12
                             1 0.991467 0.569848
                                                     0.998788
                   0.988299
R1_13
                             0.909091 0.983353
                                                 0.920394
                                                         0.995082
                   -- -- 0.996988
R1_14
      1 0.999917
                                   0.996988
                                              0.996988
R1_21
      0.630945 1
                   0.993465
                            1 0.902076 0.630945
                                                     0.941599
R1_22
                  0.999028
                             1 0.0033303 0.526697
      0.526697
                1
                                                     0.997429
      0.609892 1
                  0.983464 1 0.00570884 0.609892
R1 23
                                                     0.997153
                                           0.999345
R1 24
                   0.995356 1 0.998841
      0.999345 1
                                                     0.998472
R1_31
                   0.99394 1 0.997605
                                      0.688764 0.992547
      0.688764
                1
R1_32
      0.541401
                1
                   1 1 1
                             0.541401
                                       1
                             1 0.88324 0.999331
R1 33
      0.88324 1 0.997831
                          1
R1 41
      0.78125 1
                0.99979 1 0.997007 0.78125 0.995575
R1_42
                1 0.989977
                             1 0.975927 0.617479
      0.617479
                                                     0.990854
      0.541999
R1 43
                1
                  0.986484
                             0.973684 0.348855 0.541999 0.996339
R1_51
      0.603157 1
                  0.995454 1 0.855858 0.603157
                                                     0.995349
R1_52
      0.622807 1
                   0.994252 1 1 0.622807 0.998166
R1_53
      0.998993 1
                   0.997143
                             1 0.718094
                                         0.998993
                                                     0.996985
                  1 1 1 0.718698
R1_61
      0.718698 1
                                     1
      0.697219 1 1 1 1
                             0.697219
R1_62
                                      1
R1_63
      0.670484 1
                   0.994539
                             1 0.857561
                                          0.670484
                                                     0.995748
R1_71
                   0.99358 1
                             0.848788 0.740968 0.986694
      0.740968 1
      0.544921 1
R1_{72}
                   1 1 1 0.544921
                                      1
R1 73
                   0.991175
                             0.96 0.993206 0.731115
      0.731115 1
                                                        0.997431
                                                    0.996325
R1_81
      0.747244 1
                   0.996891
                             1 0.991853
                                         0.747244
R1_82
      0.587741
                1
                   0.999352
                             1 0.987979
                                          0.587741
                                                     0.992908
R1_83
      0.647513 1
                   0.998826
                             1 0.998681
                                          0.647513
                                                     0.998216
R1_91
      0.66517 1 1 1 1 0.66517 1
R1_92
                                          0.778765
                   0.980861 1 0.995714
                                                     0.995135
      0.778765
                1
R1 93
      0.625086
                   0.996681
                             1 0.99831 0.625086 0.996156
      1 1 -- -- 0.994975 1 0.994975
R2 1
R2_105 1 0.992857
                   -- -- 0.946667 0.994398 0.946667
R2_115 0.842849
                   0.991243
                             1 0.99245 0.842849
                                                 0.923719
              1
R2_116 0.573747
                   0.984551
                             1 1 0.573747 0.999169
                1
R2_117 0.71209 1
                0.998192 1
                             0.997355
                                     0.71209 0.994989
R2 14
                   0.984461
                             1 0.904376
                                         0.719569
      0.719569
                1
                                                     0.991507
R2_150 0.831603
                   0.999201
                             1 0.0928247
                                          0.831603
                                                     0.997694
                1
R2_151 0.56343 1 1 1 0.000648549 0.56343 1
R2_152 0.606541
                   0.99787 1 0.0104632 0.606541
                                                 0.997992
R2_153 0.680318
                   0.991786
                             1 1 0.680318 0.988016
                1
R2 154 0.853349
                   0.98975 1
                            0.345297
                1
                                     0.853349 0.994616
R2 18
      0.628326 1 0.98623 1 0.852354
                                       0.628326
                                                 0.986486
R2 19
                             0.940862 0.811146
                                                 0.999001
      0.811146 1
                   0.99566 1
R2_20
      0.733948
                1 0.998092
                             1 0.995501 0.733948 0.997388
              0.979592 0.990261 0.957447 0.846247 0.586003
R2_24
      0.586003
                                                                  0.998239
                                           0.916982
R2_26
      0.916982 1 0.992369
                             1 0.957098
                                                     0.997569
R2 27
      0.752976
                1
                   0.992291
                             1
                                1 0.752976
                                              0.99921
R2 28
      0.689157
                1 1 1 1
                             0.689157
                                      1
R2_32
      0.66964 1
                0.996432 1 1 0.66964 0.998624
```

```
R2 33
     0.416961 0.5 1 0 nan 0.416961 1
R2 37
     0.694992 1 0.994852 1 0.981481 0.694992 0.999348
R2 38
     0.379038 1
                 0.992625 1 1 0.379038 0.997398
R2_41
     0.837026 1 0.993443
                          1 0.9981 0.837026 0.990694
     0.874031 1 1 1 1 0.874031 1
R2 42
R2_45  0.462216  1  0.996477  1  1  0.462216  0.998439
     0.702646 1 1 1 1 0.702646 1
R2 46
R2 47
     0.888911 1 0.996626 1 0.995795 0.888911 0.998237
     0.387345 1 0.995233 1 1 0.387345 0.999075
R2 53
R2_54  0.864703  1  0.985219  1  0.996922  0.864703  0.997701
R2_55
     0.880804 1 0.983178 1 0.99546 0.880804 0.990647
0.999708
R2_6
     0.702989 1 0.996895 1 0.999525 0.702989
                                               0.990489
R2_60
     0.607892 1 0.997855 1 0.998146 0.607892
                                               0.997085
     0.886991 1 0.998694 1 0.999702 0.886991
1 1 -- -- 0.993392 1 0.993392
R2_63
                                               0.997046
R2_65
R2 66
     0.528717 1 0.99979 1 0.999945 0.528717 0.987964
R2_67
     0.782027 1 1 1 1 0.782027 1
     0.568811 \qquad 0.846154 \qquad 0.996553 \qquad 0.833333 \qquad 0.998019 \qquad 0.568811 \qquad 0.998823
R2 68
R2_7
     0.76132 1 0.996266 1 0.999624 0.76132 0.994472
R2 71 0.77139 1 0.977113 1 0.975684 0.77139 0.99827
     R2_72
     0.921274 1 0.989642 0.952381 0.997619 0.921274 0.999506
R2_73
     0.463043 1 0.996114 1 1 0.463043 0.999218
R2_76
```

Summary for file: G\_RMXB2v2.accepted\_hits.bam Unmapped: 0 reads Experiment: 6434036 (16.0152%) reads Synthetic: 33740540 (83.9848%) reads Reference: 1190 exons Reference: 1028 introns Reference: 149219 bases Query: 85746594 exons Query: 43266445 introns Query: 157833 bases Dilution: 0.839848 \*\*\* The following statistics are computed at the exon, intron and base level. \*\*\* \*\*\* Exon level is defined by performance per exon. An alignment that \*\*\* is not mapped entirely within an exon is considered as a FP. The \*\*\* intron level is similar. \*\*\* \*\*\* Base level is defined by performance per nucleotide. A partial \*\*\* mapped read will have FP and TP. \*\*\* ----- Exon level ------Sensitivity: 0.994118 Specificity: 0.976567 Detection: 0.0590086 (R2\_33) ----- Intron level -----Sensitivity: 0.986381 Specificity: 0.756517 Detection: 1.88828 (R1\_72) ----- Base level -----Sensitivity: 0.685982 Specificity: 0.948160 Detection: 0.0590086 (R2\_33) ----- Undetected -----Exon: 0.005882 Intron: 0.013619 Gene: 0.039474

#### Sequin statistics for: B2

```
ID Covered Sensitivity (Exon) Specificity (Exon) Sensitivity (Intron)
                                                                    Specificity (Intron)
               1 1 1 1
                                0.832898
R1_101 0.832898
R1_102 0.698107
                 1
                     0.985276
                                1 0.244275
                                               0.698107
                                                         0.999498
R1 103 0.628532
                     0.993265
                                    0.970835
                                               0.628532
                                                         0.996924
                                1
                 1
R1 11
       0.644489
                     1 1 1
                                0.644489
                 1
                                         1
R1_12
       0.590941
                 1
                     0.995051
                                1 1 0.590941 0.998831
R1_13
       0.920394
                     0.987888
                                0.909091
                                           0.995075
                                                      0.920394
                                                               0.995082
                 1
R1_14
       1 0.999876
                     -- -- 1
                                0.995502
                                           1
R1_21
       0.630945
                     0.99394 1
                                0.839282
                                           0.630945
                                                      0.942446
                1
R1_22
       0.527149
                     0.999506
                                1 0.0015311 0.527149
                                                         0.999142
R1_23
       0.609892
                     0.986752
                                1 0.00298525 0.609892
                 1
                                                         0.997721
R1 24
       0.999563
                     0.995545
                                1 0.998693
                                               0.999563
                                                         0.998037
R1_31
                                               0.688764
       0.688764
                 1
                     0.992008
                                1 0.997879
                                                         0.99322
R1_32
       0.544296
                     1 1 1
                                0.544296
                                         1
                 1
R1 33
       0.896837
                     0.983193
                                1
                                    1 0.896837
                                                  0.999341
                 1
R1 41
       0.78125 1
                 0.999876
                                0.874219
                                         0.78125 0.995575
                            1
R1_42
                     0.990803
                                1 0.985162 0.617479 0.993884
       0.617479
                 1
R1_43
       0.541636
                 1
                     0.985438
                                0.973684 0.803818 0.541636 0.996005
R1_51
       0.604284
                     0.996225
                                1 0.0829933 0.604284
                                                         0.997209
                 1
R1_52
       0.622807
                     0.994399
                 1
                                1 1 0.622807 0.997557
R1_53
                                              0.998489
       0.998489
                     0.997344
                                   0.0360915
                 1
                                1
                                                         0.996482
R1_61
                     0.986755
       0.687813
                 1
                              1 0.959677
                                               0.687813
                                                         0.998788
R1_62
       0.686473
                     1 0.8 0.8 0.686473
R1_63
       0.670484
                     0.993684
                                1 0.877702
                                               0.670484
                                                         0.996133
                 1
R1_71
                     0.993425
       0.740968
                                1
                                    0.997341
                                               0.740968
                                                         0.984678
R1_{72}
       0.600903
                     1 1 0.8 0.600903
                 1
                                         1
                                0.96
R1 73
                                     0.985267
                                                  0.731115
       0.731115
                     0.991099
                                                             0.997716
                     0.997639
R1_81
       0.748031
                                1 0.992314
                                               0.748031
                                                         0.996329
R1_82
       0.587741
                 1
                     0.99715 1
                                0.988495
                                           0.587741
                                                    0.9908
R1_83
       0.647127
                     0.998647
                                1
                                   0.99802 0.647127
                                                      0.998215
                 1
R1_91
       0.668377
                     1 1 1
                                0.668377
                 1
                                         1
R1_92
       0.778342
                     0.983037
                                1 0.996622
                                               0.778342
                                                         0.994595
                  1
R1 93
       0.625086
                     0.996003
                                1 0.996222
                                               0.625086
                                                         0.996156
                     0.99397 1
R2 1
       1 1 -- --
                                0.99397
R2_105 1 0.954887
                     -- -- 0.981333 0.994595
                                                  0.981333
R2_115 0.837412
                     0.99107 1
                                0.992674
                                                      0.923261
                                           0.837412
                 1
R2_116 0.582339
                     0.99 1
                                1 0.582339
                                               0.997547
                 1
R2_117 0.711066
                     0.99903 1
                                0.997962
                                           0.711066
                                                      0.996411
                 1
R2 14
                                             0.719569
       0.719569
                 1
                     0.984606
                                1 0.928543
                                                         0.991507
R2_150 0.82699 1
                 0.998974 1
                                0.046194
                                         0.82699 0.993075
R2_151 0.549431
                 1
                     0.996042
                                1 0.000351715 0.549431
                                                         0.996035
R2_152 0.603368
                     0.998164
                                   0.00536784 0.603368
                                1
                                                         0.999192
R2_153 0.672983
                     1 1 1
                                0.672983
                 1
                                          1
R2 154 0.855658
                 1
                     0.988501
                                1 0.339719
                                               0.855658
                                                         0.994631
R2_18
       0.628326
                 1
                     0.984501
                                1
                                   0.951897
                                               0.628326
                                                         0.986486
R2 19
       0.811146
                     0.996182
                                1 0.957324
                                               0.811146
                                                         0.999001
R2_20
       0.733564
                     0.997507
                                1 0.994503
                                               0.733564
                                                         0.997386
R2_24
       0.585856
                 0.979592 0.989461 0.957447
                                                  0.828288 0.585856
                                                                        0.998239
R2_26
       0.916982
                     0.99228 1
                                0.640148
                                           0.916982
                                                      0.997569
                 1
       0.748512
R2 27
                 1
                     0.981896
                                1 1
                                       0.748512
                                                  0.999205
R2 28
                 1
                     1 1 1
       0.687711
                                0.687711
                                           1
R2_{32}
       0.669948
                     0.993046
                                1 1 0.669948
                                                  0.998624
```

```
R2 33
    0.95053 1 1 1 1 0.95053 1
    0.706322 \qquad 1 \qquad 0.98032 \ 1 \qquad 0.981481 \qquad 0.706322 \qquad 0.998718
R2 37
R2 38
    0.380026 1 0.97554 1 1 0.380026 0.998268
R2_41
    0.836669 1 0.991694 1 0.998627 0.836669
                                     0.995746
    0.851163 1 0.997821 1 1 0.851163 0.999545
R2 42
R2 45 0.461061 1 0.996591 1 0.995166 0.461061 0.999061
    0.694227 1 1 1 1 0.694227 1
R2 46
R2 47
    0.998456
    0.39111 1 0.999066 1 1 0.39111 0.999542
R2 53
R2_54  0.864703  1  0.986481  1  0.997388  0.864703
                                     0.997956
R2_55
    0.880804 1 0.987022 1 0.998648
                              0.880804
                                     0.99142
R2_57
    0.624855 1 0.993583 0.941176 1 0.624855
                                     0.998766
R2_59 0.559432 1 1 1 1 0.559432 1
R2_6
    R2_60
    0.607892 1 0.997107 1 0.996965 0.607892
                                     0.995923
              0.998679 1 0.999706 0.886991 0.997046
    0.886991 1
R2_63
R2_65
    1 0.984615 -- -- 0.994493 0.99779 0.994493
              0.999833 1 1 0.528717 0.987964
R2 66
    0.528717 1
    0.944551 1 1 1 1 0.944551 1
R2_67
    R2 68
R2_7
    R2 71 0.676471 1 0.99635 1 1 0.676471 0.999013
R2_72
    R2_73
    0.470652 1 1 1 1 0.470652 1
R2_76
```

Summary for file: G\_RMXB3v2.accepted\_hits.bam Unmapped: 0 reads Experiment: 7941201 (17.1508%) reads Synthetic: 38361013 (82.8492%) reads Reference: 1190 exons Reference: 1028 introns Reference: 149219 bases Query: 98520610 exons Query: 50973179 introns Query: 157888 bases Dilution: 0.828492 \*\*\* The following statistics are computed at the exon, intron and base level. \*\*\* \*\*\* Exon level is defined by performance per exon. An alignment that \*\*\* is not mapped entirely within an exon is considered as a FP. The \*\*\* intron level is similar. \*\*\* \*\*\* Base level is defined by performance per nucleotide. A partial \*\*\* mapped read will have FP and TP. \*\*\* ----- Exon level ------Sensitivity: 0.994958 Specificity: 0.978198 Detection: 0.0590086 (R2\_33) ----- Intron level -----Sensitivity: 0.983463 Specificity: 0.751422 Detection: 1.88828 (R1\_72) ----- Base level -----Sensitivity: 0.684753 Specificity: 0.946133 Detection: 0.0590086 (R2\_33) ----- Undetected -----Exon: 0.005042 Intron: 0.016537 Gene: 0.052632

#### Sequin statistics for: B3

```
ID Covered Sensitivity (Exon) Specificity (Exon) Sensitivity (Intron)
                                                                     Specificity (Intron)
R1_101 0.841601 1 0.99403 1 1 0.841601
                                               0.998967
                                               0.717742
R1_102 0.717742
                 1
                    0.980746
                                1
                                    0.0221654
                                                          0.999024
R1 103 0.627978
                1 0.992148 1
                                    0.835009
                                               0.627978
                                                          0.996922
R1 11
       0.645161
                     0.999461
                                1
                                    1
                                        0.645161
                                                 0.998959
                 1
R1_12
                     0.991325
       0.590595
                  1
                                 1
                                    0.99781 0.590595
                                                      0.99883
R1_13
       0.920394
                     0.988254
                                 0.909091
                                          0.987014
                                                       0.920394
                                                                  0.995898
                  1
R1_14
          0.999656
                     -- -- 1
                                 0.989568
                                            1
R1_21
                     0.993922
                                 1
                                    0.822178
                                               0.630945
                                                          0.942446
       0.630945
                1
R1_22
                     1 1 0.00123868 0.525792
       0.525792
R1 23
       0.60815 1
                  0.98571 1 0.00229028 0.60815 0.997714
R1 24
       0.999563
                     0.995155
                                    0.998935
                                               0.999563
                                                          0.997819
                                 1
R1_31
       0.689234
                  1
                     0.991529
                                 1
                                    0.983869
                                               0.689234
                                                          0.991881
R1_32
       0.544296
                     1 1 1
                                 0.544296
                  1
                                          1
R1 33
       0.890038
                      0.996205
                                 1
                                    1 0.890038
                                                   0.999005
                  1
R1 41
       0.78125 1
                  0.999946
                                 0.996632
                                          0.78125 0.998225
                             1
R1_42
                                 1 0.949859
       0.617479
                  1
                     0.991638
                                             0.617479 0.992872
                                          0.604672 0.541818 0.996007
R1_43
       0.541818
                  1
                      0.986158
                                 0.973684
R1_51
       0.60372 1
                  0.995606
                                 0.831258
                                            0.60372 0.996279
                           1
R1_52
       0.62357 1
                  0.993546
                                 0.999107
                                           0.62357 0.997559
                           1
R1_53
                                 0.72554 0.998489
       0.998489
                     0.99506 1
                                                 0.995982
                  1
R1_61
       0.686144
                  1
                     1 1 0.911765
                                      0.686144
                                                   1
R1_62
       0.716182
                     1 1
                             0.842105
                                        0.716182
                                                   1
R1_63
       0.670484
                      0.9934 1
                                 0.879043
                                          0.670484
                                                       0.995363
                  1
R1_71
                     0.991256
                                 1 0.984353 0.740968
       0.740968
                                                          0.987705
R1_{72}
                     1 1 0.666667 0.586456
       0.586456
               1
                                                 1
R1 73
                     0.99045 0.96
       0.731325 1
                                    0.991894
                                               0.731325
                                                          0.997432
R1_81
       0.749606
                     0.997294
                                 1
                                    0.989216
                                               0.749606
                  1
                                                          0.996337
R1_82
       0.587741
                  1
                      0.995803
                                 1
                                    0.987377
                                               0.587741
                                                          0.991501
R1_83
       0.644813
                      0.998136
                                 1
                                    0.995882
                                               0.644813
                                                          0.998209
                  1
R1_91
       0.679282
                         1 1
                                 0.679282
                      1
R1_92
                  0.97995 1
                             0.996986 0.77665 0.995122
       0.77665 1
R1 93
       0.625086
                      0.996497
                                 1 0.998423 0.625086
                                                          0.996156
R2 1
       1 1 -- --
                     0.988945
                                 1 0.988945
R2 105 1
          0.983471
                      -- -- 0.984
                                   0.994609
                                               0.984
R2_115 0.842849
                      0.989942
                                   0.993289
                                               0.842849
                                 1
                                                          0.92427
                  1
R2_116 0.521718
                     0.996266
                                1 1 0.521718 0.998174
                  1
R2_117 0.711066
                     0.999352 1 0.997792
                                               0.711066
                                                          0.997126
R2 14
       0.719569
                     0.984373 1 0.944812
                                               0.719569
                                                          0.991507
R2_150 0.833141
                     0.999017
                                1 0.0395501
                                               0.833141
                                                          0.997698
                     0.997917 1 0.000290904 0.584864
R2_151 0.584864
                  1
                                                          0.999253
R2_152 0.603856
                     0.997058 1 0.00392735 0.603856
                                                          0.998386
R2_153 0.668093
                     0.997268
                                 0.95
                                        1 0.668093
                                                       0.99863
                  1
R2 154 0.855658
                                 1 0.158151
                  1
                     0.991371
                                               0.855658
                                                          0.994631
R2_18
       0.628326
                  1
                     0.985099
                                 1
                                    0.89836 0.628326
                                                       0.986486
R2 19
       0.811146
                     0.996027
                                    0.769173
                                               0.811146
                                                          0.998716
                                    0.998409
R2_20
       0.732795
                      0.998371
                                 1
                                               0.732795
                                                          0.997906
R2_24
       0.586151
                  0.979592
                             0.988855
                                        0.957447
                                                   0.904814
                                                              0.586151
                                                                         0.99824
R2_26
       0.916982
                     0.992311
                                 1
                                    0.984013
                                               0.916982
                                                          0.997569
                  1
R2 27
       0.749702
                 1
                      0.994169
                                 1
                                    1
                                        0.749702
                                                   0.99881
R2 28
                  1
                     1 1 1
       0.686747
                                 0.686747
                                          1
R2_32
       0.667795
                     0.990257
                                 1 1 0.667795
                                                   0.997244
```

```
R2 33
      0.40636 0.5 1 0 0 0.40636 1
      0.711761 1 0.994798 1 1 0.711761 0.999682
R2 37
R2 38
      0.387607 1 0.9946 1 1 0.387607 0.997455
      0.837384 1 0.991778 1 0.985197 0.837384
R2_41
                                                  0.989861
R2_42 0.85814 1 1 1 1 0.85814 1
R2_45  0.454703  1  0.999465  1  0.98533  0.454703  0.999682
      0.683103 1 1 1 1 0.683103 1
R2 46
      0.888911 1 0.996685 1 0.995092 0.888911 0.998237
R2 47
      0.385374 1 0.998685 1 1 0.385374 0.999535
R2 53
R2_54  0.864703  1  0.982419  1  0.996371  0.864703  0.997446
R2_55
      0.880804 1 0.989737 1 0.973753 0.880804
                                                  0.989875
R2_57
      0.639907 1 0.99214 0.941176 1 0.639907 0.997593
R2_59 0.562177 1 1 1 1 0.562177 1
R2_6
      0.702025 1 0.9962 1 1 0.702025 0.991826
R2_60
      0.607892 1 0.996822 1 0.998606 0.607892 0.996503
      0.886991 1 0.998578 1 1 0.886991 0.996555
R2_63
R2_65
      1 1 -- -- 0.995595 1 0.995595
      0.527107 1 0.999792 1 0.999952 0.527107 0.986935
R2 66
      0.804971 1 1 1 1 0.804971 1
R2_67
      0.597632 \qquad 0.923077 \qquad 0.995682 \qquad 0.875 \qquad 0.997295 \qquad 0.597632 \qquad 0.99888
R2 68
     0.76132 1 0.997063 1 0.99982 0.76132 0.993374
R2_7
R2_71 0.679813 1 0.998536 1 1 0.679813 0.999018
R2_72  0.300965  0.866667  0.993569  0.454545  1  0.300965  0.999014
     0.950398 1 0.991451 1 0.997839 0.950398 0.999521
R2_73
R2_76 0.477536 1 0.990426 1 1 0.477536 0.999242
```

#### TransQuin Assembly

#### Summary statistics for: A1

```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/A1/NotGuided/transcripts.gtf
  Experiment: 156131 features
  Synthetic: 1955 features
  Reference: 162 exons
  Reference: 1028 introns
  *** The following statistics are computed for exact and fuzzy.
  *** The fuzzy level is 10 nucleotides.
  ----- Exon level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Intron level -----
  Sensitivity: 0.996032 (0.996032)
  Specificity: 0.996032 (0.996032)
  ----- Base level -----
  Sensitivity: 1
  Specificity: 1
  ----- Intron Chain level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Transcript level -----
  Sensitivity: 1 (0.993939)
  Specificity: 1 (0.993939)
  Missing exons: 0/872 (0)
  Missing introns: 3/756 (0.00396825)
  Novel exons: 0/872 (0)
  Novel introns: 0/756 (0)
```

```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/A2/NotGuided/transcripts.gtf
  Experiment: 144223 features
  Synthetic: 1928 features
  Reference: 162 exons
  Reference: 1028 introns
  *** The following statistics are computed for exact and fuzzy.
  *** The fuzzy level is 10 nucleotides.
  ----- Exon level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Intron level -----
  Sensitivity: 0.996032 (0.996032)
  Specificity: 0.996032 (0.996032)
  ----- Base level -----
  Sensitivity: 1
  Specificity: 1
  ----- Intron Chain level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Transcript level -----
  Sensitivity: 1 (0.993939)
  Specificity: 1 (0.993939)
  Missing exons: 0/872 (0)
  Missing introns: 3/756 (0.00396825)
  Novel exons: 0/872 (0)
  Novel introns: 0/756 (0)
```

```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/A3/NotGuided/transcripts.gtf
  Experiment: 147191 features
  Synthetic: 2037 features
  Reference: 162 exons
  Reference: 1028 introns
  *** The following statistics are computed for exact and fuzzy.
  *** The fuzzy level is 10 nucleotides.
  ----- Exon level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Intron level -----
  Sensitivity: 0.996032 (0.996032)
  Specificity: 0.996032 (0.996032)
  ----- Base level -----
  Sensitivity: 1
  Specificity: 1
  ----- Intron Chain level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Transcript level -----
  Sensitivity: 1 (0.993939)
  Specificity: 1 (0.993939)
  Missing exons: 0/872 (0)
  Missing introns: 3/756 (0.00396825)
  Novel exons: 0/872 (0)
  Novel introns: 0/756 (0)
```

```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/B1/NotGuided/transcripts.gtf
  Experiment: 108316 features
  Synthetic: 1691 features
  Reference: 162 exons
  Reference: 1028 introns
  *** The following statistics are computed for exact and fuzzy.
  *** The fuzzy level is 10 nucleotides.
  ----- Exon level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Intron level -----
  Sensitivity: 0.996032 (0.996032)
  Specificity: 0.996032 (0.996032)
  ----- Base level -----
  Sensitivity: 1
  Specificity: 1
  ----- Intron Chain level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Transcript level -----
  Sensitivity: 1 (0.993939)
  Specificity: 1 (0.993939)
  Missing exons: 0/872 (0)
  Missing introns: 3/756 (0.00396825)
  Novel exons: 0/872 (0)
  Novel introns: 0/756 (0)
```

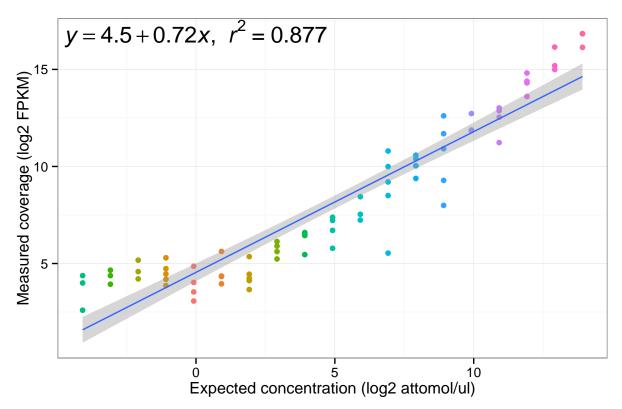
```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/B2/NotGuided/transcripts.gtf
  Experiment: 107544 features
  Synthetic: 1616 features
  Reference: 162 exons
  Reference: 1028 introns
  *** The following statistics are computed for exact and fuzzy.
  *** The fuzzy level is 10 nucleotides.
  ----- Exon level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Intron level -----
  Sensitivity: 0.996032 (0.996032)
  Specificity: 0.996032 (0.996032)
  ----- Base level -----
  Sensitivity: 1
  Specificity: 1
  ----- Intron Chain level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Transcript level -----
  Sensitivity: 1 (0.993939)
  Specificity: 1 (0.993939)
  Missing exons: 0/872 (0)
  Missing introns: 3/756 (0.00396825)
  Novel exons: 0/872 (0)
  Novel introns: 0/756 (0)
```

```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/B2/NotGuided/transcripts.gtf
  Experiment: 107544 features
  Synthetic: 1616 features
  Reference: 162 exons
  Reference: 1028 introns
  *** The following statistics are computed for exact and fuzzy.
  *** The fuzzy level is 10 nucleotides.
  ----- Exon level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Intron level -----
  Sensitivity: 0.996032 (0.996032)
  Specificity: 0.996032 (0.996032)
  ----- Base level -----
  Sensitivity: 1
  Specificity: 1
  ----- Intron Chain level -----
  Sensitivity: 1 (1)
  Specificity: 1 (1)
  ----- Transcript level -----
  Sensitivity: 1 (0.993939)
  Specificity: 1 (0.993939)
  Missing exons: 0/872 (0)
  Missing introns: 3/756 (0.00396825)
  Novel exons: 0/872 (0)
  Novel introns: 0/756 (0)
```

# TransQuin Expression (Gene)

Expression summary statistics for: A1

# Expression scatter plot for: A1



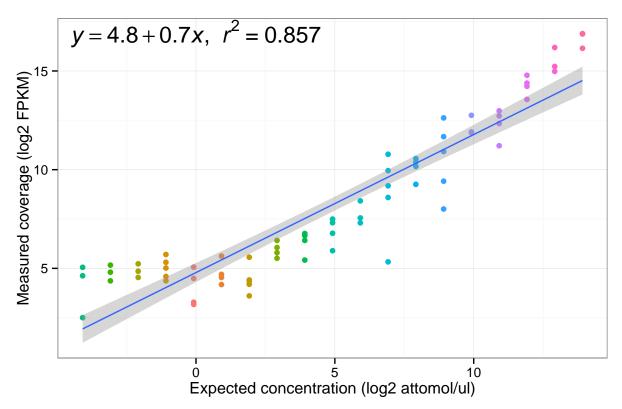
#### Expression summary statistics for: A2

SSM: SSE: SST:

1129.39, DF: 72

```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/A2/genes.fpkm_tracking
   Experiment: 60570 gene
   Synthetic:
               75 gene
   Reference:
               76 gene
  Detected:
             4.62321 gene
   ***
   *** Detection Limits
   ***
  Break: 3.77655 (R1_62)
  Left: 4.62321 + 0.0227324x (R2 = 0.00360572)
  Right: 2.20463 + 0.990951x (R2 = 0.91596)
   ***
   *** Statistics for linear regression
   Correlation: 0.960008
  Slope: 6.60733
  R2:
              0.921615
  F-statistic: 834.781
  P-value: 0
  SSM: 3.663e+10, DF: 1
SSE: 3.11546e+09, DF: 71
  SST: 3.97454e+10, DF: 72
   *** Statistics for linear regression (log2 scale)
   ***
   Correlation: 0.925689
  Slope:
            0.699133
  R2:
               0.8569
  F-statistic: 425.155
  P-value:
            967.772, DF: 1
161.616, DF: 71
```

# Expression scatter plot for: A2



#### Expression summary statistics for: A3

P-value:

SSM: SSE:

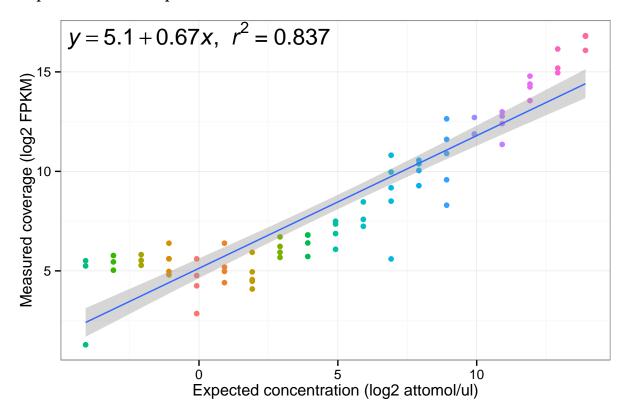
SST:

879.802, DF: 1 171.015, DF: 71

1050.82, DF: 72

```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/A3/genes.fpkm_tracking
  Experiment: 60569 gene
  Synthetic:
              75 gene
  Reference:
              76 gene
  Detected:
            5.25776 gene
  ***
  *** Detection Limits
  ***
  Break: 15.1062 (R1_101)
  Left: 5.25776 + 0.16804x (R2 = 0.139073)
  Right: 1.51144 + 1.05768x (R2 = 0.903529)
  ***
  *** Statistics for linear regression
  Correlation: 0.961001
  Slope: 6.31637
  R2:
              0.923522
  F-statistic: 857.371
  P-value: 0
  SSM:
             3.34749e+10, DF: 1
             2.7721e+09, DF: 71
  SSE:
  SST:
             3.6247e+10, DF: 72
  *** Statistics for linear regression (log2 scale)
  ***
  Correlation: 0.915017
  Slope:
            0.666601
  R2:
              0.837255
  F-statistic: 365.266
```

# Expression scatter plot for: A3



#### Expression summary statistics for: B1

SSE:

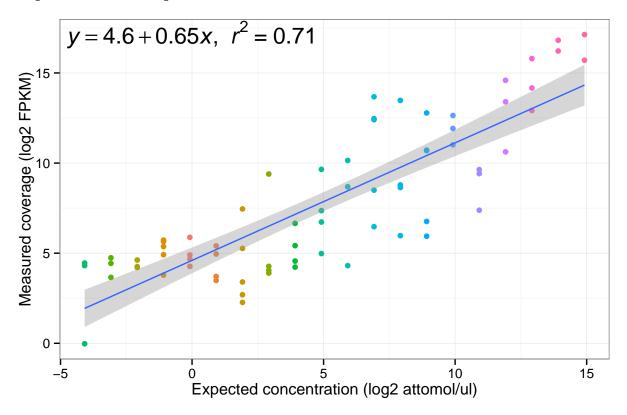
SST:

350.653, DF: 70

1207.15, DF: 71

```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/B1/genes.fpkm_tracking
  Experiment: 60568 gene
  Synthetic:
               74 gene
  Reference: 76 gene
  Detected: 5.19759 gene
  ***
  *** Detection Limits
  ***
  Break: 1.88828 (R1_72)
  Left: 5.19759 + 0.42932x (R2 = 0.278885)
  Right: 2.76376 + 0.857773x (R2 = 0.701784)
  ***
  *** Statistics for linear regression
  Correlation: 0.87057
  Slope: 3.70819
  R2:
              0.757893
  F-statistic: 219.128
  P-value: 0
  SSM: 3.24184e+10, DF: 1
SSE: 1.0356e+10. DF: 70
             1.0356e+10, DF: 70
  SSE:
  SST:
             4.27744e+10, DF: 71
  *** Statistics for linear regression (log2 scale)
  ***
  Correlation: 0.84233
  Slope:
             0.652163
  R2:
              0.709519
  F-statistic: 170.98
  P-value:
            856.494, DF: 1
  SSM:
```

# Expression scatter plot for: B1



#### Expression summary statistics for: B2

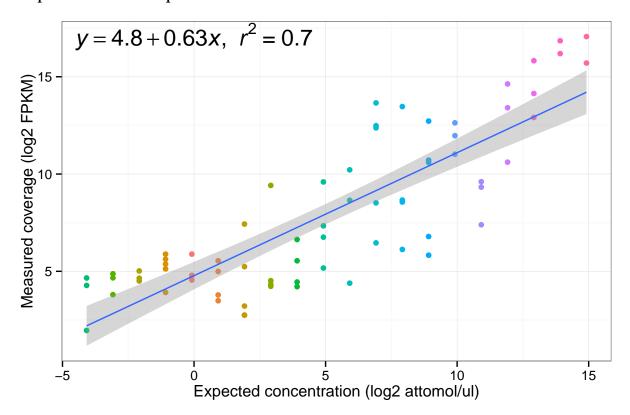
SSM: SSE:

SST:

343.936, DF: 70

1148.21, DF: 71

```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/B2/genes.fpkm_tracking
   Experiment: 60570 gene
   Synthetic:
                74 gene
   Reference: 76 gene
  Detected: 5.22081 gene
   ***
   *** Detection Limits
   ***
  Break: 1.88828 (R1_72)
  Left: 5.22081 + 0.303379x (R2 = 0.28516)
  Right: 2.85593 + 0.848121x (R2 = 0.700146)
   ***
   *** Statistics for linear regression
   Correlation: 0.866031
  Slope: 3.64019
  R2:
               0.750009
  F-statistic: 210.01
  P-value: 0
  SSM: 3.12402e+10, DF: 1
SSE: 1.04129e+10, DF: 70
SST: 4.16532e+10, DF: 71
   *** Statistics for linear regression (log2 scale)
   ***
   Correlation: 0.836934
  Slope:
            0.63197
  R2:
               0.700459
  F-statistic: 163.691
  P-value:
             804.275, DF: 1
```



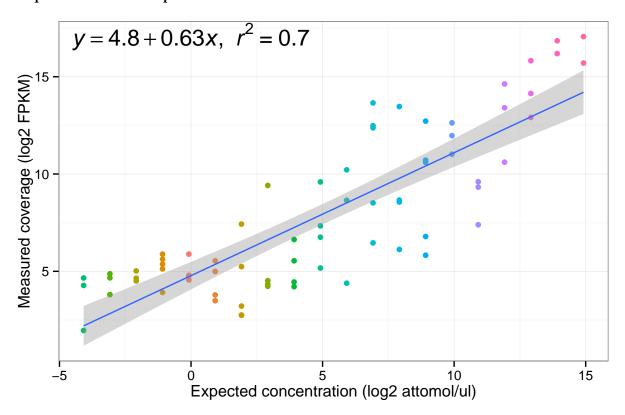
SSE:

SST:

343.936, DF: 70

1148.21, DF: 71

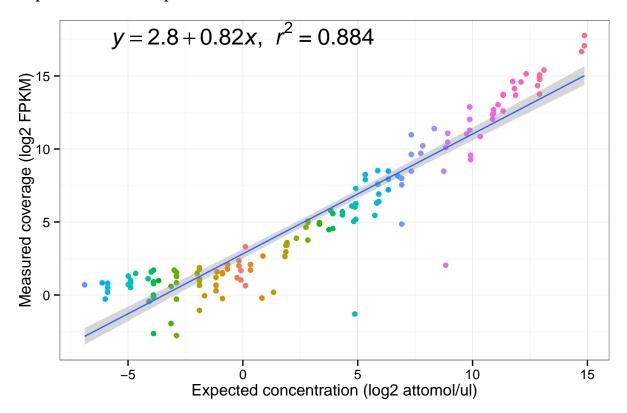
```
Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/B3/genes.fpkm_tracking
   Experiment: 60570 gene
   Synthetic:
               74 gene
   Reference: 76 gene
  Detected: 5.22081 gene
   ***
   *** Detection Limits
   ***
  Break: 1.88828 (R1_72)
  Left: 5.22081 + 0.303379x (R2 = 0.28516)
  Right: 2.85593 + 0.848121x (R2 = 0.700146)
   ***
   *** Statistics for linear regression
   Correlation: 0.866031
  Slope: 3.64019
  R2:
               0.750009
  F-statistic: 210.01
  P-value: 0
  SSM: 3.12402e+10, DF: 1
SSE: 1.04129e+10, DF: 70
SST: 4.16532e+10, DF: 71
              4.16532e+10, DF: 71
   *** Statistics for linear regression (log2 scale)
   ***
   Correlation: 0.836934
  Slope:
             0.63197
  R2:
               0.700459
  F-statistic: 163.691
  P-value:
             804.275, DF: 1
  SSM:
```



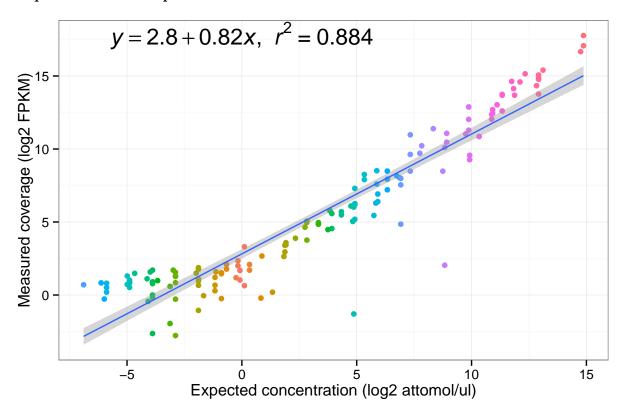
### TransQuin Expression (Isoform)

#### Expression summary statistics for: A1

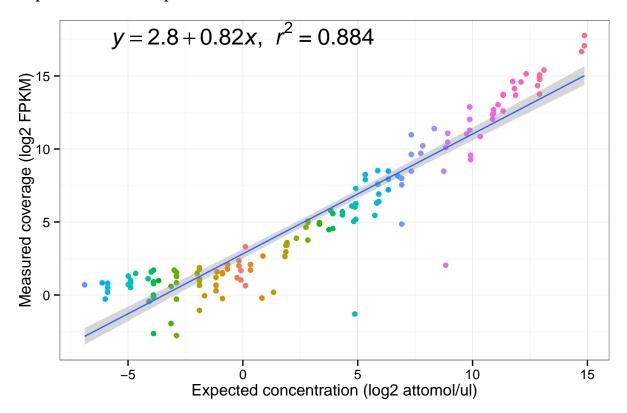
```
Summary for dataset: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab
   Experiment: 100769 isoform
  Synthetic: 164 isoform
  Reference: 162 isoform
  Detected: 1.25307 isoform
   *** Detection Limits
  Break: 3.5544 (R1_32_1)
  Left: 1.25307 + 0.157653x (R2 = 0.0887965)
  Right: 0.825739 + 1.06985x (R2 = 0.865753)
   *** Statistics for linear regression
   Correlation: 0.951062
  Slope: 5.16984
  R2:
              0.904519
  F-statistic: 1373.62
  P-value:
  SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146
   *** Statistics for linear regression (log2 scale)
  Correlation: 0.940142
  Slope: 0.820425
  R2:
               0.883867
  F-statistic: 1103.57
  P-value: 0
  SSM:
              3387.56, DF: 1
             445.096, DF: 145
  SSE:
  SST: 3832.65, DF: 146
```



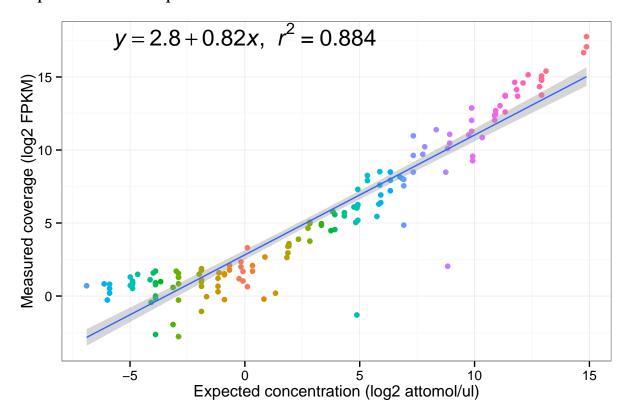
```
Summary for dataset: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab
   Experiment: 100769 isoform
   Synthetic: 164 isoform
   Reference: 162 isoform
  Detected: 1.25307 isoform
   ***
   *** Detection Limits
  Break: 3.5544 (R1_32_1)
  Left: 1.25307 + 0.157653x (R2 = 0.0887965)
  Right: 0.825739 + 1.06985x (R2 = 0.865753)
   ***
   *** Statistics for linear regression
   Correlation: 0.951062
  Slope: 5.16984
  R2:
               0.904519
  F-statistic: 1373.62
  P-value: 0
  SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146
   *** Statistics for linear regression (log2 scale)
   ***
  Correlation: 0.940142
  Slope:
              0.820425
  R2:
                0.883867
  F-statistic: 1103.57
  P-value:
  SSM: 3387.56, DF: 1
SSE: 445.096, DF: 14
   SSE:
               445.096, DF: 145
  SST:
              3832.65, DF: 146
```



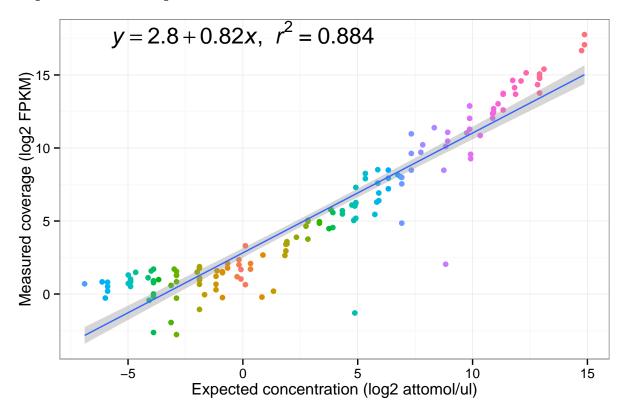
```
Summary for dataset: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab
   Experiment: 100769 isoform
   Synthetic: 164 isoform
   Reference: 162 isoform
  Detected: 1.25307 isoform
   ***
   *** Detection Limits
  Break: 3.5544 (R1_32_1)
  Left: 1.25307 + 0.157653x (R2 = 0.0887965)
  Right: 0.825739 + 1.06985x (R2 = 0.865753)
   ***
   *** Statistics for linear regression
   Correlation: 0.951062
  Slope: 5.16984
  R2:
               0.904519
  F-statistic: 1373.62
  P-value: 0
  SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146
   *** Statistics for linear regression (log2 scale)
   ***
  Correlation: 0.940142
  Slope:
              0.820425
  R2:
                0.883867
  F-statistic: 1103.57
  P-value:
  SSM: 3387.56, DF: 1
SSE: 445.096. DF: 14
   SSE:
               445.096, DF: 145
  SST:
              3832.65, DF: 146
```



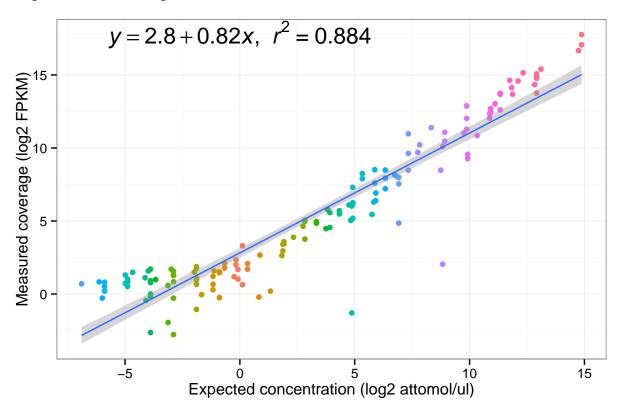
```
Summary for dataset: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab
   Experiment: 100769 isoform
   Synthetic: 164 isoform
   Reference: 162 isoform
  Detected: 1.25307 isoform
   ***
   *** Detection Limits
  Break: 3.5544 (R1_32_1)
  Left: 1.25307 + 0.157653x (R2 = 0.0887965)
  Right: 0.825739 + 1.06985x (R2 = 0.865753)
   ***
   *** Statistics for linear regression
   Correlation: 0.951062
   Slope: 5.16984
  R2:
               0.904519
  F-statistic: 1373.62
  P-value: 0
  SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146
   *** Statistics for linear regression (log2 scale)
   ***
   Correlation: 0.940142
  Slope:
            0.820425
  R2:
               0.883867
  F-statistic: 1103.57
  P-value:
  SSM: 3387.56, DF: 1
SSE: 445.096, DF: 145
  SST:
              3832.65, DF: 146
```



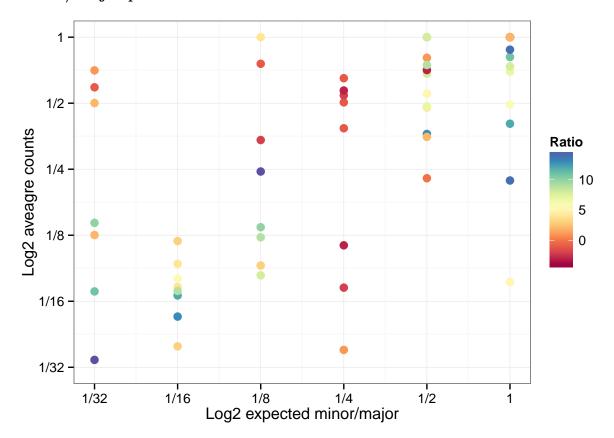
```
Summary for dataset: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab
   Experiment: 100769 isoform
   Synthetic: 164 isoform
   Reference: 162 isoform
  Detected: 1.25307 isoform
   ***
   *** Detection Limits
  Break: 3.5544 (R1_32_1)
  Left: 1.25307 + 0.157653x (R2 = 0.0887965)
  Right: 0.825739 + 1.06985x (R2 = 0.865753)
   ***
   *** Statistics for linear regression
   Correlation: 0.951062
  Slope: 5.16984
  R2:
               0.904519
  F-statistic: 1373.62
  P-value: 0
  SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146
   *** Statistics for linear regression (log2 scale)
   ***
   Correlation: 0.940142
  Slope:
             0.820425
  R2:
                0.883867
  F-statistic: 1103.57
  P-value:
  SSM: 3387.56, DF: 1
SSE: 445.096, DF: 145
  SST:
              3832.65, DF: 146
```



```
Summary for dataset: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab
   Experiment: 100769 isoform
   Synthetic: 164 isoform
   Reference: 162 isoform
  Detected: 1.25307 isoform
   ***
   *** Detection Limits
  Break: 3.5544 (R1_32_1)
  Left: 1.25307 + 0.157653x (R2 = 0.0887965)
  Right: 0.825739 + 1.06985x (R2 = 0.865753)
   ***
   *** Statistics for linear regression
   Correlation: 0.951062
   Slope: 5.16984
  R2:
               0.904519
  F-statistic: 1373.62
  P-value: 0
  SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146
   *** Statistics for linear regression (log2 scale)
   ***
   Correlation: 0.940142
  Slope:
            0.820425
  R2:
               0.883867
  F-statistic: 1103.57
  P-value:
  SSM: 3387.56, DF: 1
SSE: 445.096, DF: 145
  SST:
              3832.65, DF: 146
```



## Minor/Major plot

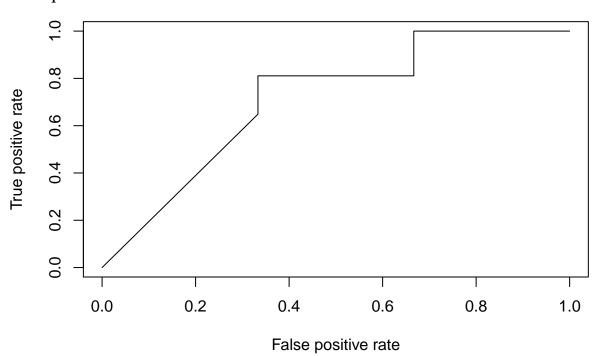


#### TransQuin Differential

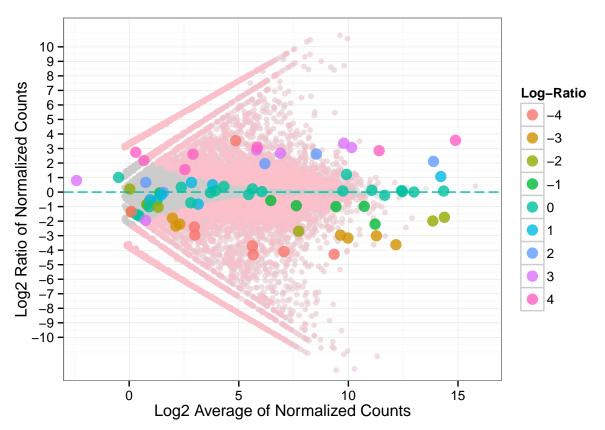
#### Differential summary statistics

```
Summary for dataset: /Users/tedwong/Desktop/K_562/DESeq2/DESeq2.csv
  Experiment: 60500 gene
  Synthetic:
               75 gene
  Reference: 76 gene
  Detected: 75 gene
   ***
   *** Detection Limits
   ***
   Absolute: 0.0590086 (attomol/ul) (R2_38)
   *** Statistics for linear regression
  Correlation: 0.707428
  Slope: 0.426606
              0.500454
  F-statistic: 73.1328
  P-value: 1.29274e-12
  SSM: 302.202, 2
301.653, DF: 73
              603.855, DF: 74
  SST:
   ***
   *** Statistics for linear regression (log2 scale)
  Correlation: 0.790229
  Slope: 0.648599
               0.624462
  F-statistic: 121.388
  P-value: 0
           183.058, DF: 1
110.087, DF: 73
293.145, DF: 74
  SSM:
  SSE:
  SST:
```

# ROC plot



## MA plot



## LODR plot

