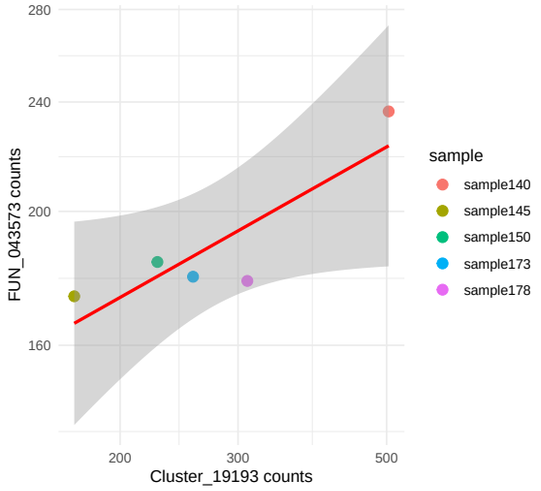
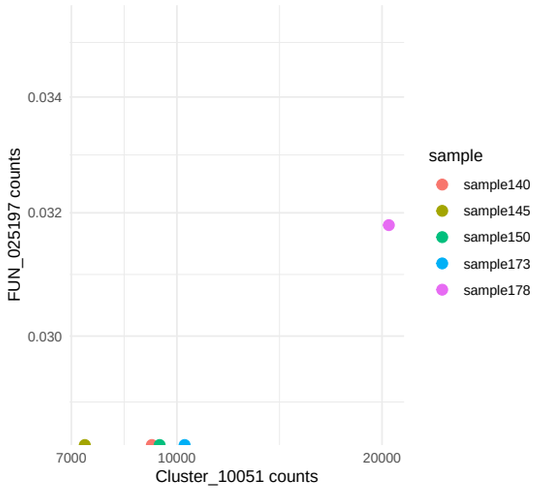
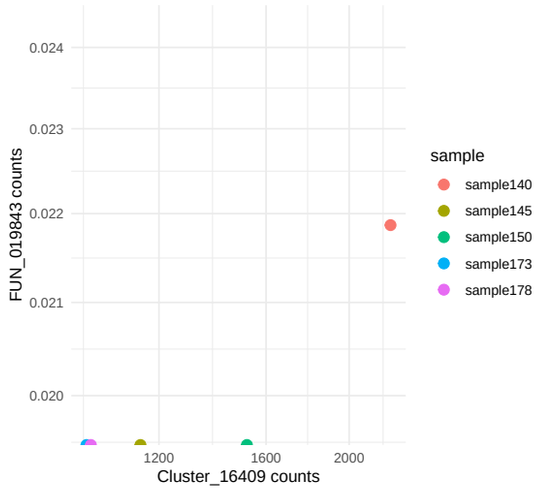
Cluster_19193 vs FUN_043573
Correlation: 0.93 | p−value: 0.0221



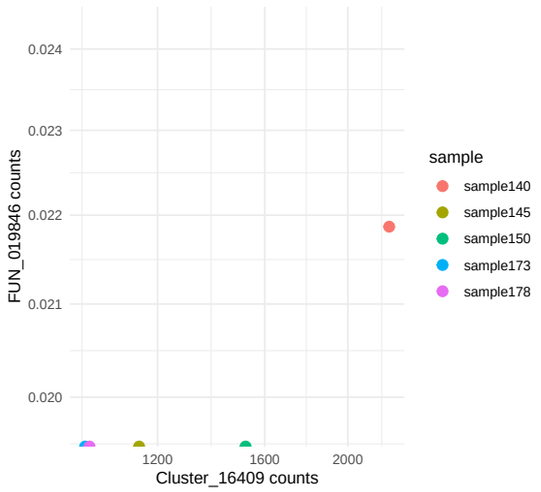
Cluster_10051 vs FUN_025197
Correlation: 0.979 | p−value: 0.00375



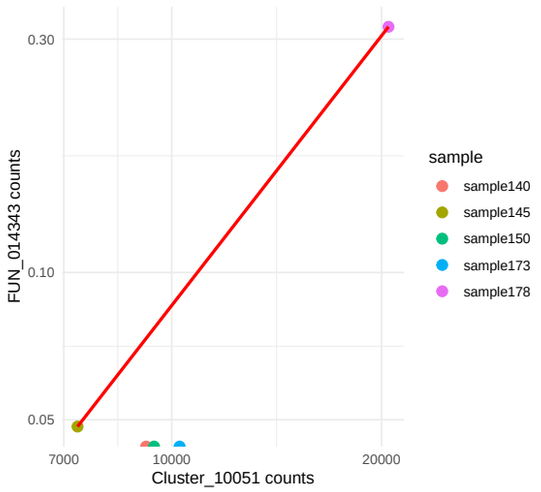
Cluster_16409 vs FUN_019843
Correlation: 0.912 | p−value: 0.0307



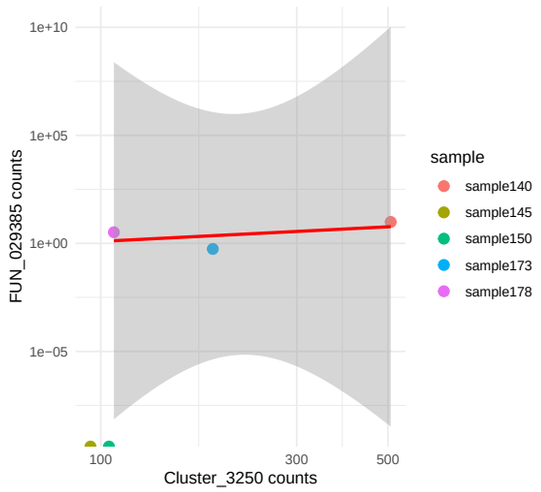
Cluster_16409 vs FUN_019846
Correlation: 0.912 | p−value: 0.0307



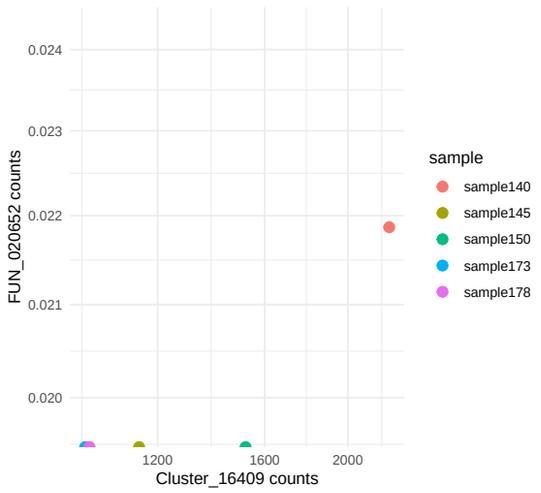
Cluster_10051 vs FUN_014343
Correlation: 0.938 | p−value: 0.0182



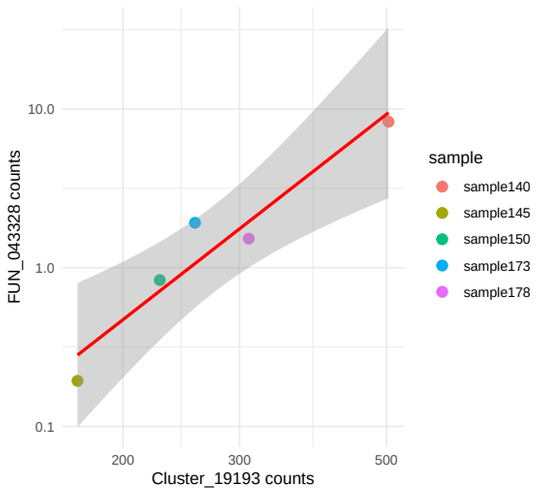
Cluster_3250 vs FUN_029385
Correlation: 0.919 | p−value: 0.0275



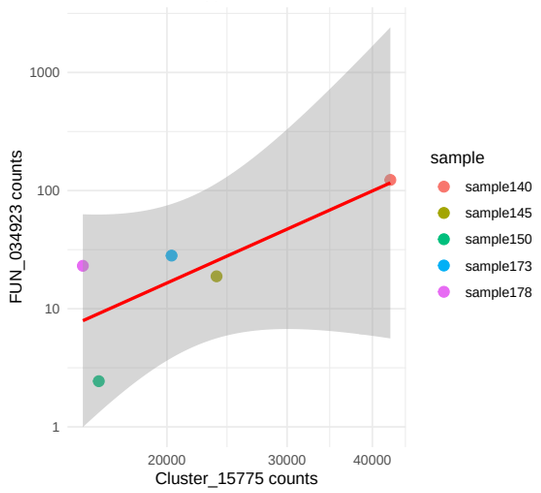
Cluster_16409 vs FUN_020652
Correlation: 0.912 | p−value: 0.0307



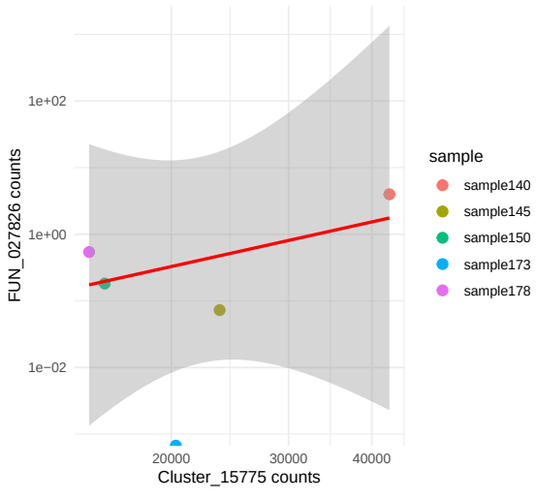
Cluster_19193 vs FUN_043328
Correlation: 0.966 | p−value: 0.00752



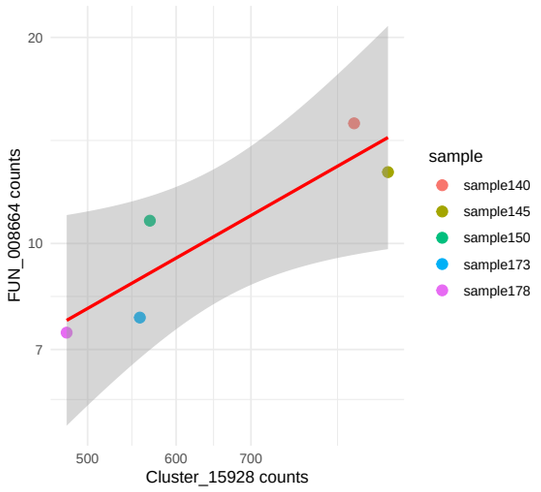
Cluster_15775 vs FUN_034923
Correlation: 0.952 | p−value: 0.0124



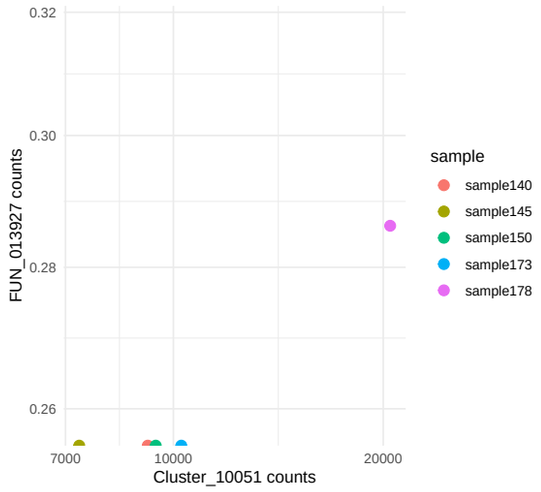
Cluster_15775 vs FUN_027826
Correlation: 0.915 | p−value: 0.0291



Cluster_15928 vs FUN_008664
Correlation: 0.881 | p−value: 0.0484



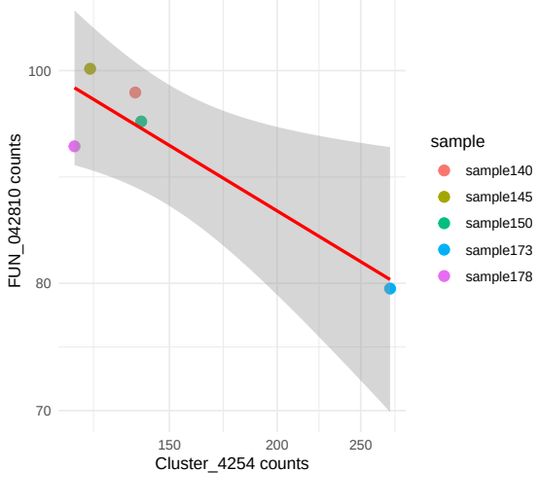
Cluster_10051 vs FUN_013927
Correlation: 0.979 | p−value: 0.00375



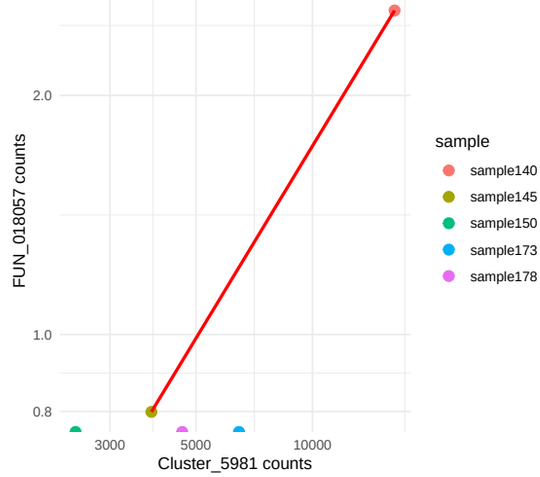
Cluster_4254 vs FUN_042810
Correlation: −0.911 | p−value: 0.0312

Cluster_5981 vs FUN_018057
Correlation: 0.901 | p−value: 0.0369

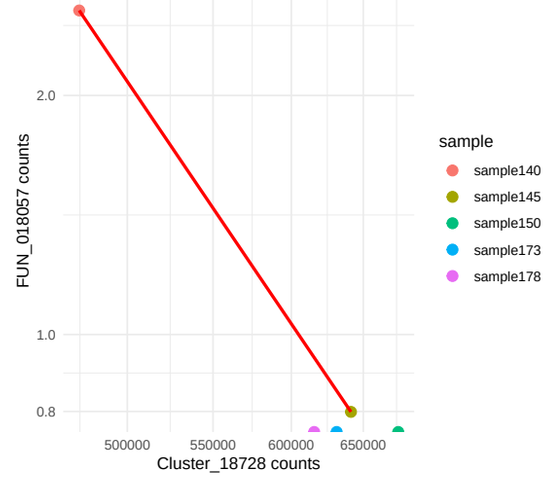
Cluster_18728 vs FUN_018057
Correlation: −0.91 | p−value: 0.0318



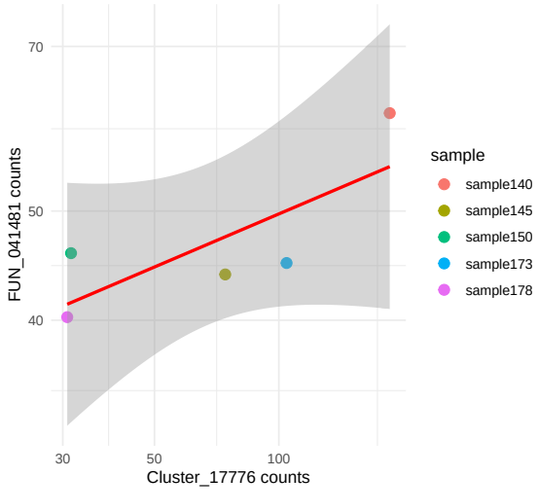
Cluster_17776 vs FUN_041481
Correlation: 0.891 | p−value: 0.0424



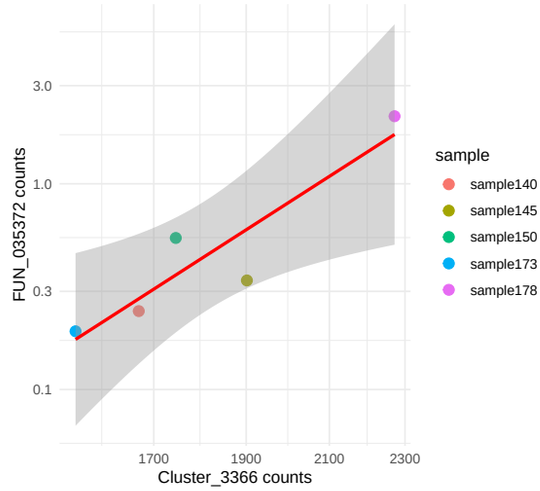
Cluster_3366 vs FUN_035372
Correlation: 0.915 | p−value: 0.0294



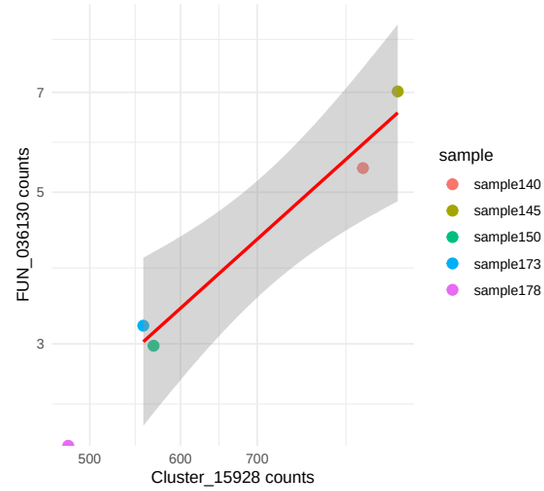
Cluster_15928 vs FUN_036130
Correlation: 0.94 | p−value: 0.0175



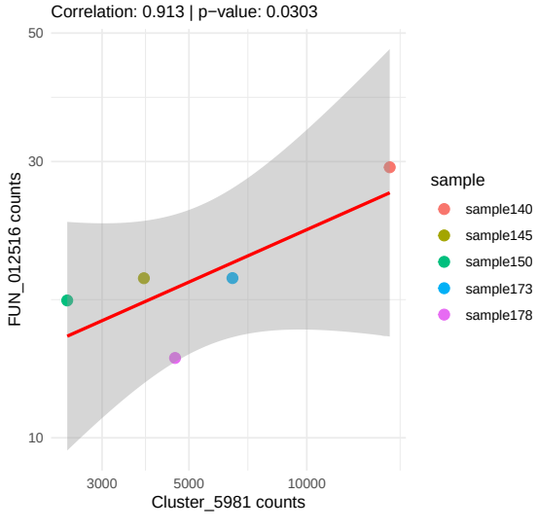
Cluster_5981 vs FUN_012516
Correlation: 0.913 | p−value: 0.0303



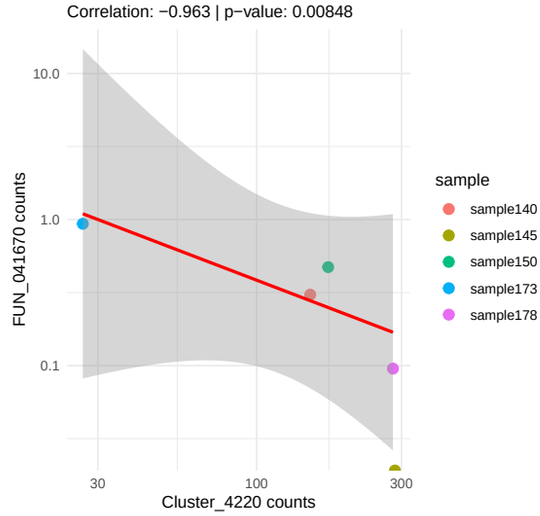
Cluster_4220 vs FUN_041670
Correlation: −0.963 | p−value: 0.00848



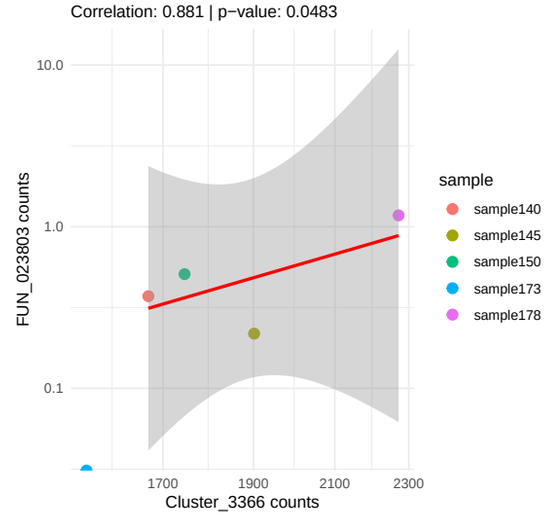
Cluster_3366 vs FUN_023803
Correlation: 0.881 | p−value: 0.0483



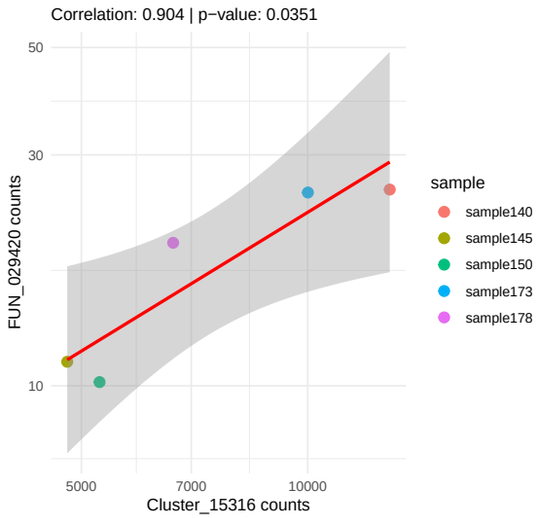
Cluster_15316 vs FUN_029420
Correlation: 0.904 | p−value: 0.0351



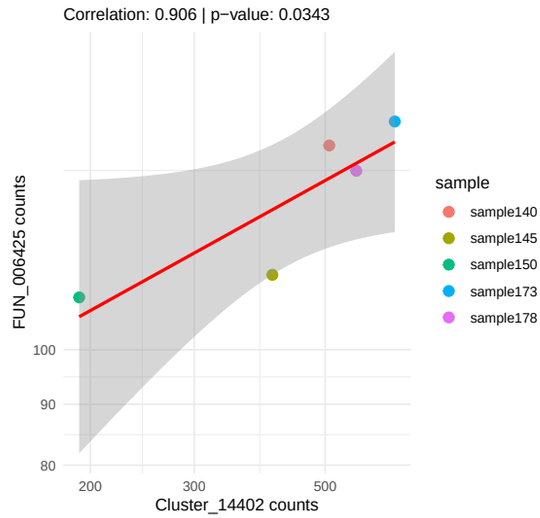
Cluster_14402 vs FUN_006425
Correlation: 0.906 | p−value: 0.0343



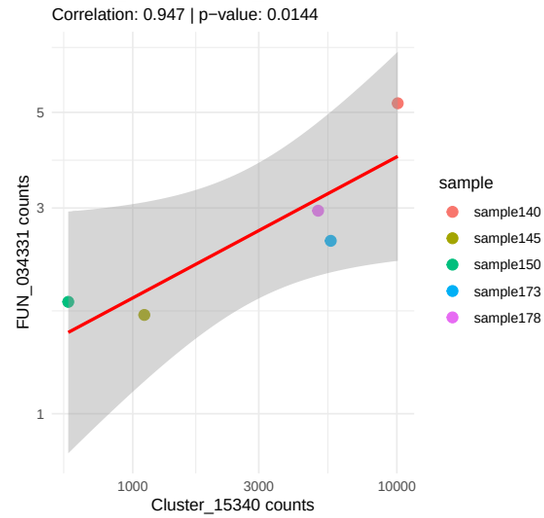
Cluster_15340 vs FUN_034331
Correlation: 0.947 | p−value: 0.0144



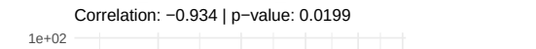
Cluster_18711 vs FUN_011647
Correlation: −0.934 | p−value: 0.0199

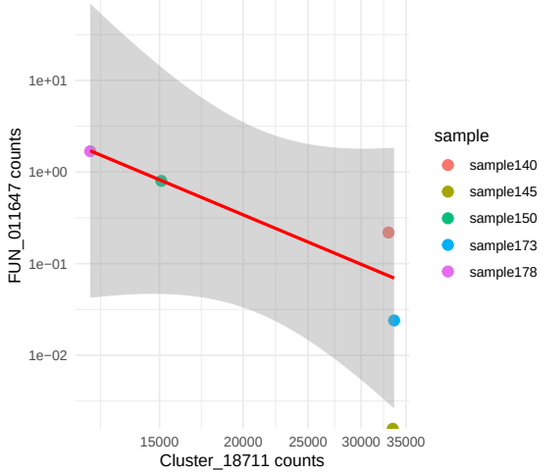


Cluster_15340 vs FUN_031699
Correlation: −0.934 | p−value: 0.0203

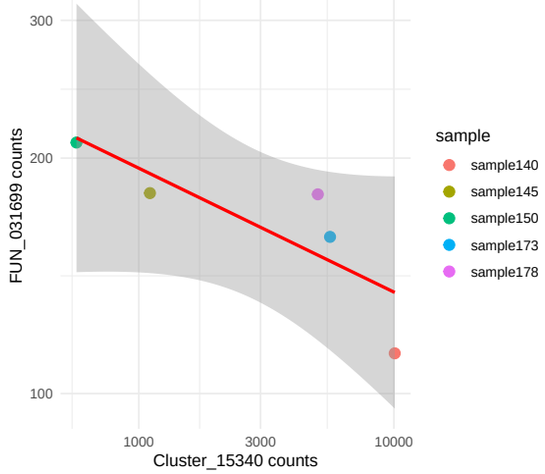


Cluster_10057 vs FUN_001214
Correlation: 0.935 | p−value: 0.0198

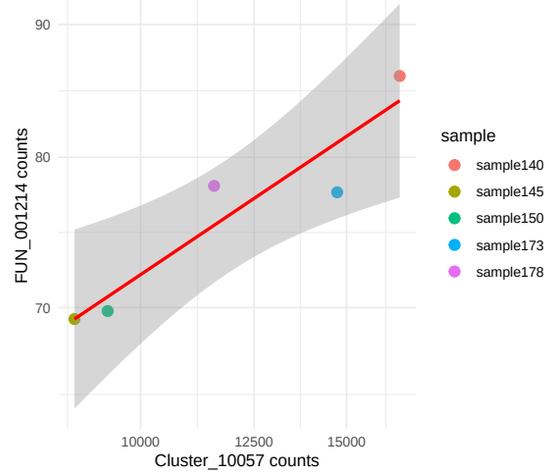




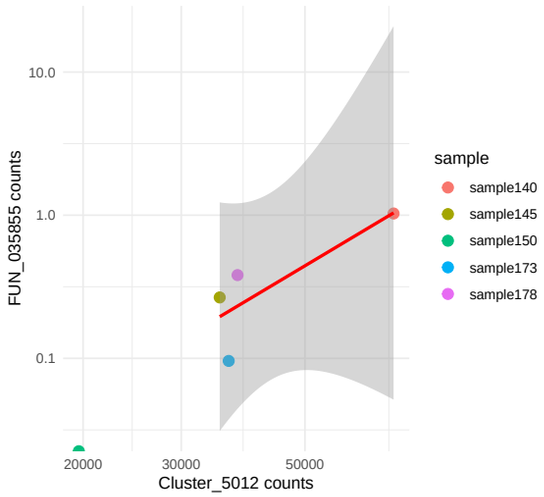
Cluster_5012 vs FUN_035855
Correlation: 0.966 | p−value: 0.00755



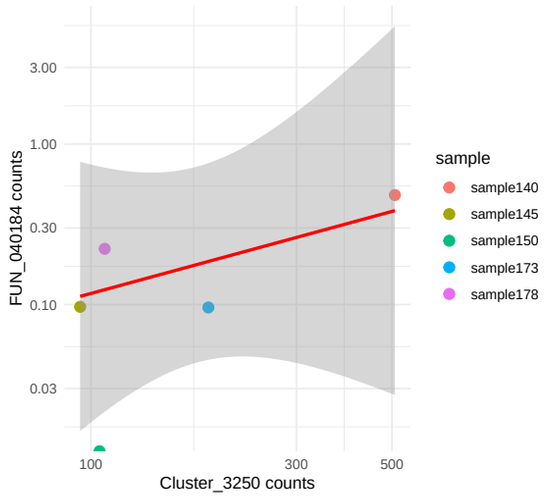
Cluster_3250 vs FUN_040184
Correlation: 0.883 | p−value: 0.047



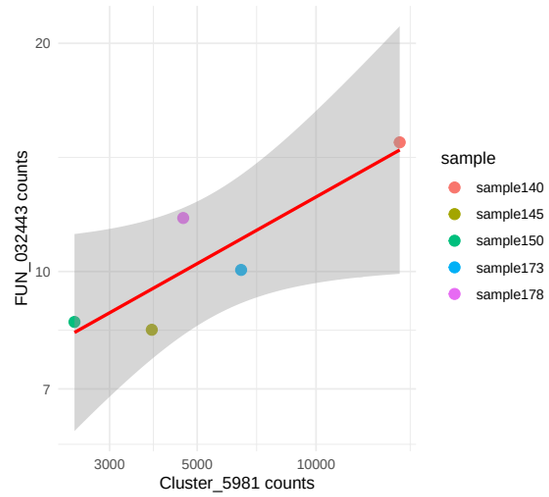
Cluster_5981 vs FUN_032443
Correlation: 0.899 | p−value: 0.038



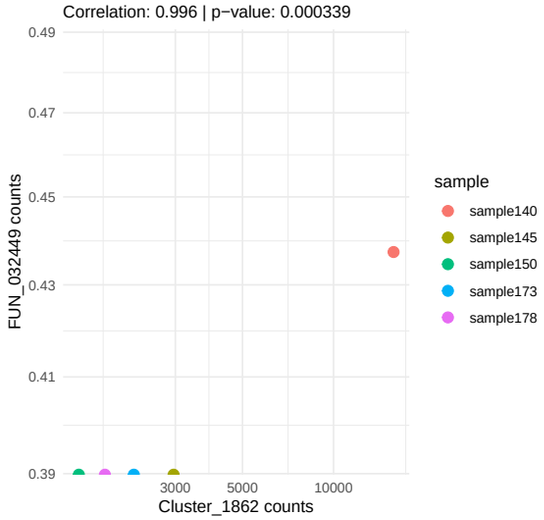
Cluster_1862 vs FUN_032449
Correlation: 0.996 | p−value: 0.000339



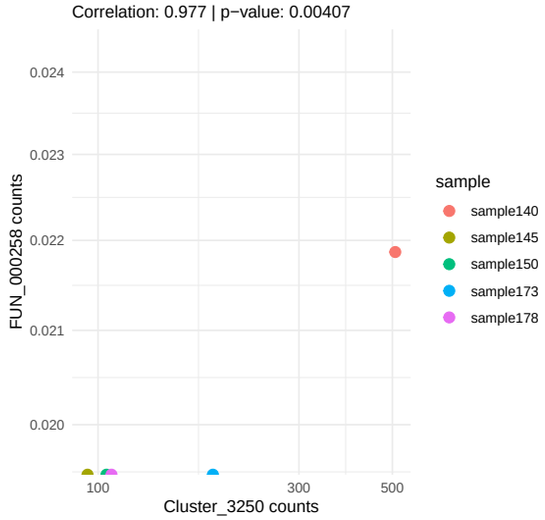
Cluster_3250 vs FUN_000258
Correlation: 0.977 | p−value: 0.00407



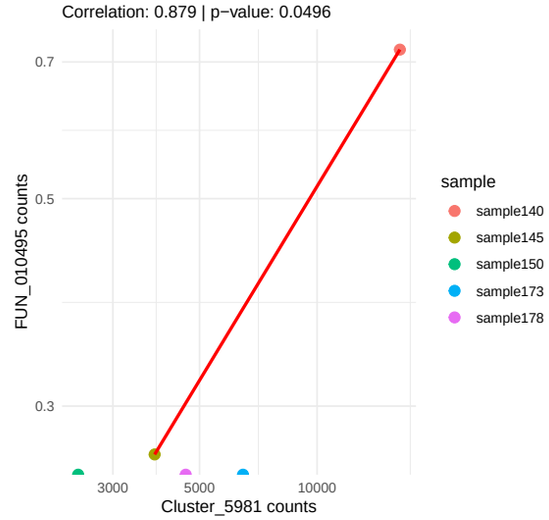
Cluster_5981 vs FUN_010495
Correlation: 0.879 | p−value: 0.0496



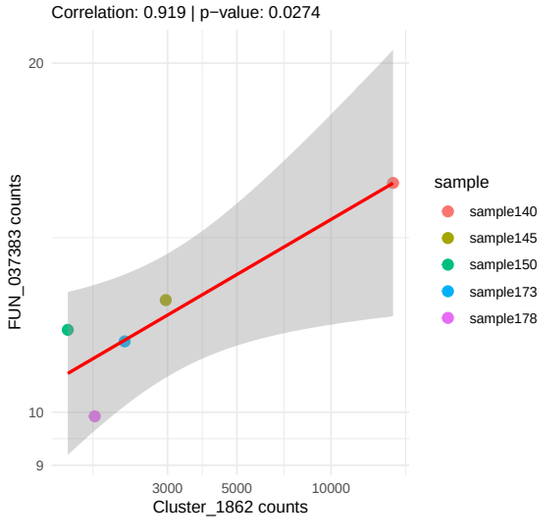
Cluster_1862 vs FUN_037383
Correlation: 0.919 | p−value: 0.0274



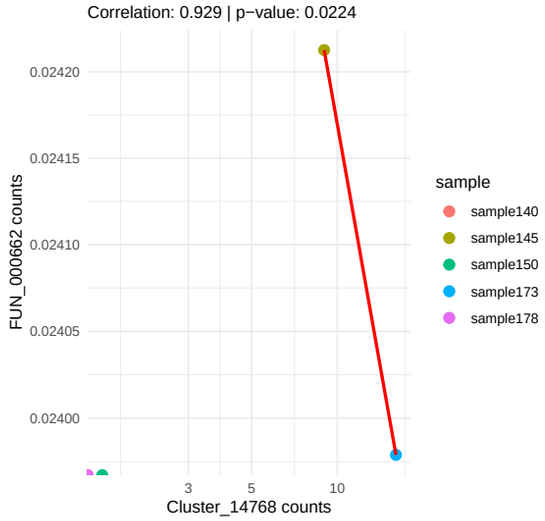
Cluster_14768 vs FUN_000662
Correlation: 0.929 | p−value: 0.0224



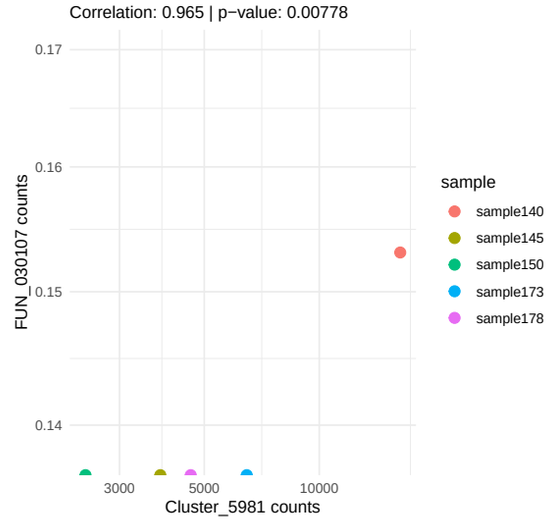
Cluster_5981 vs FUN_030107
Correlation: 0.965 | p−value: 0.00778



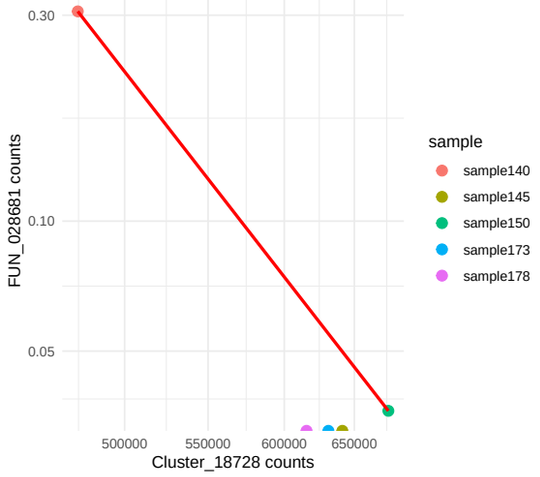
Cluster_18728 vs FUN_028681
Correlation: −0.922 | p−value: 0.026



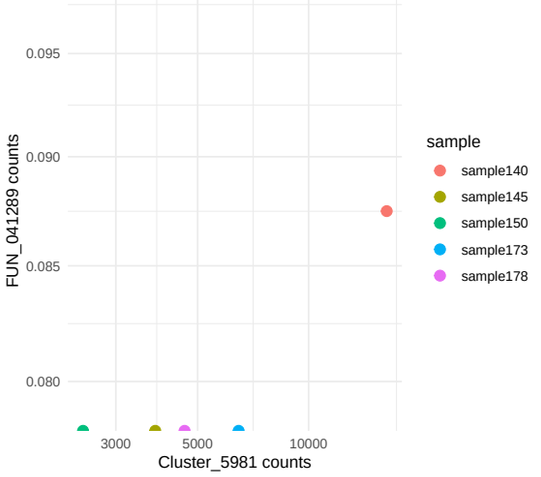
Cluster_5981 vs FUN_041289
Correlation: 0.965 | p−value: 0.00778



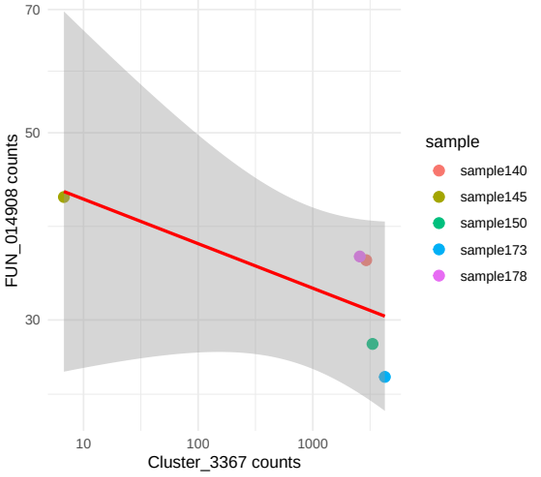
Cluster_3367 vs FUN_014908
Correlation: −0.924 | p−value: 0.0249



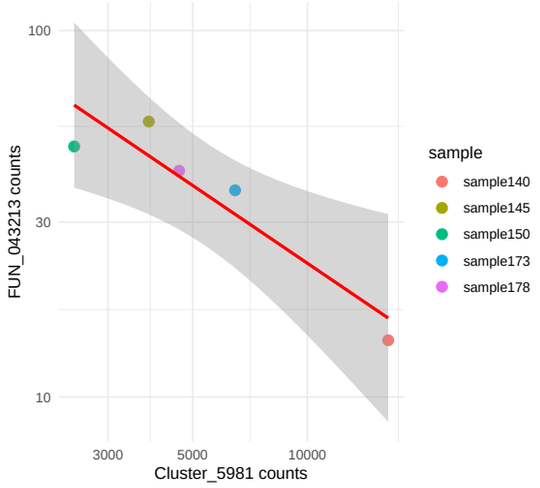
Cluster_5981 vs FUN_043213
Correlation: −0.939 | p−value: 0.0177



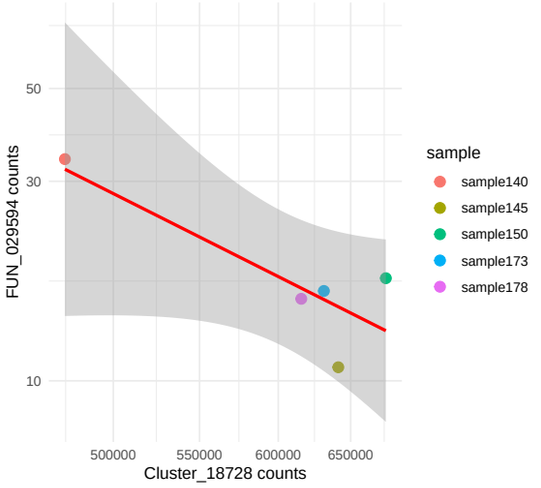
Cluster_18728 vs FUN_029594
Correlation: −0.895 | p−value: 0.0403



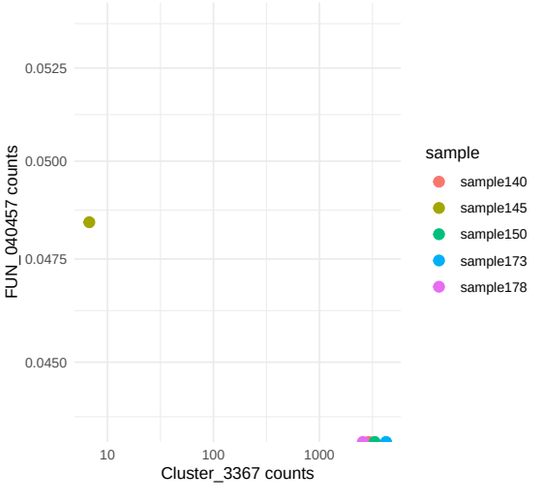
Cluster_3367 vs FUN_040457
Correlation: −0.918 | p−value: 0.0277



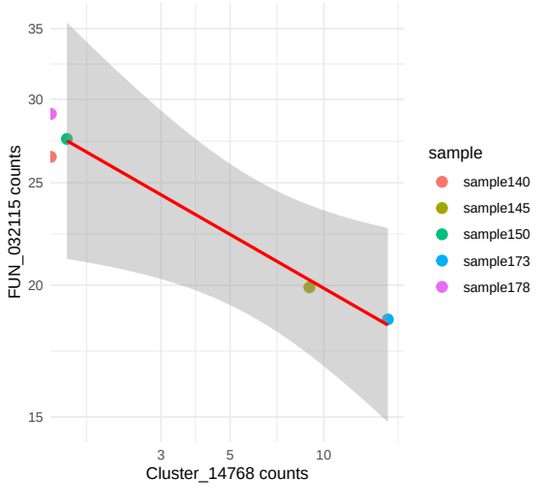
Cluster_14768 vs FUN_032115
Correlation: −0.946 | p−value: 0.0149



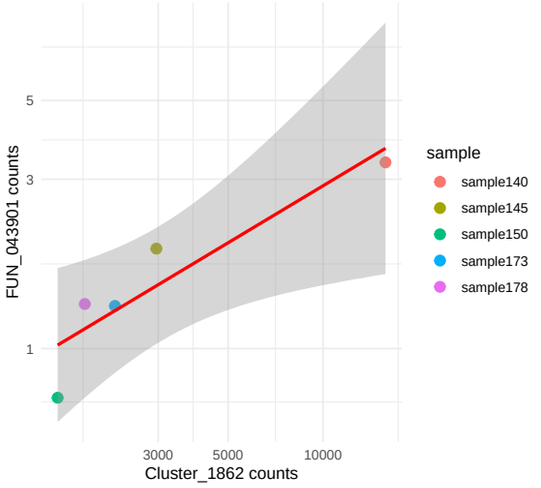
Cluster_1862 vs FUN_043901
Correlation: 0.94 | p−value: 0.0175



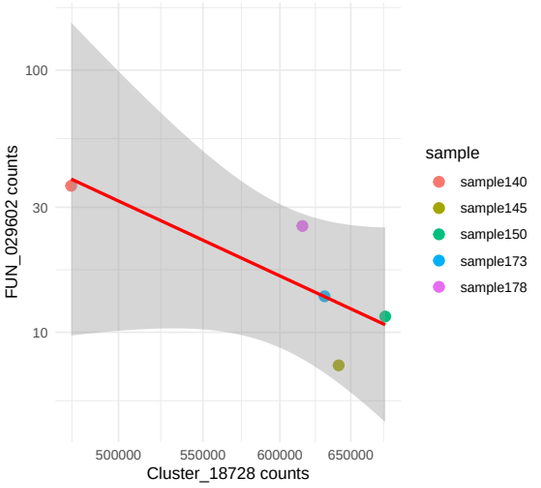
Cluster_18728 vs FUN_029602
Correlation: −0.892 | p−value: 0.0417



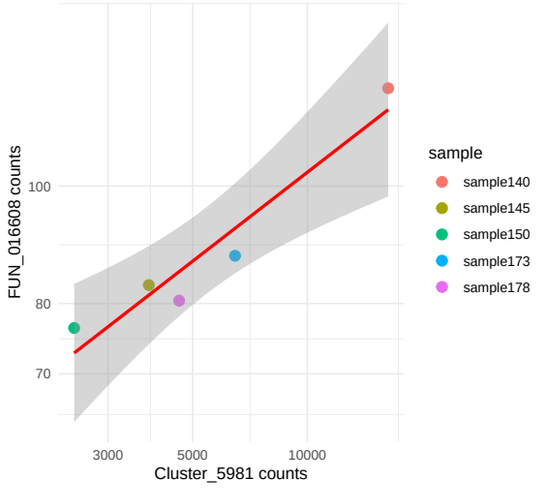
Cluster_5981 vs FUN_016608
Correlation: 0.995 | p−value: 0.000472



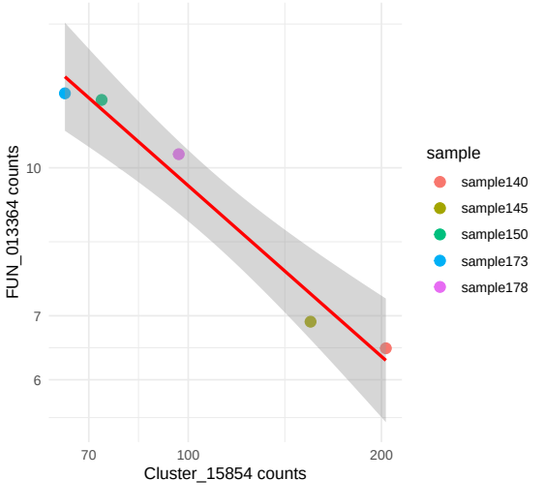
Cluster_15854 vs FUN_013364
Correlation: −0.971 | p−value: 0.00575



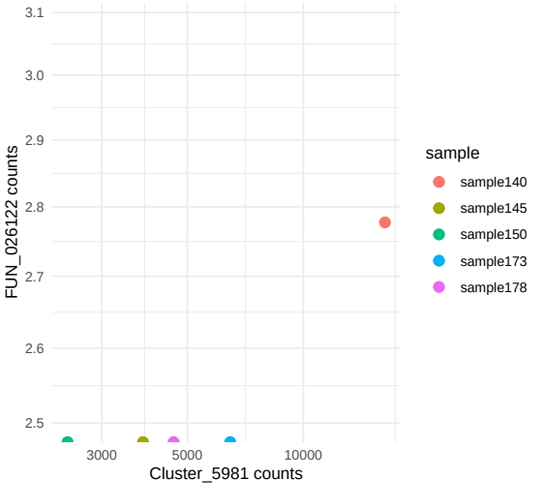
Cluster_5981 vs FUN_026122
Correlation: 0.965 | p−value: 0.00778



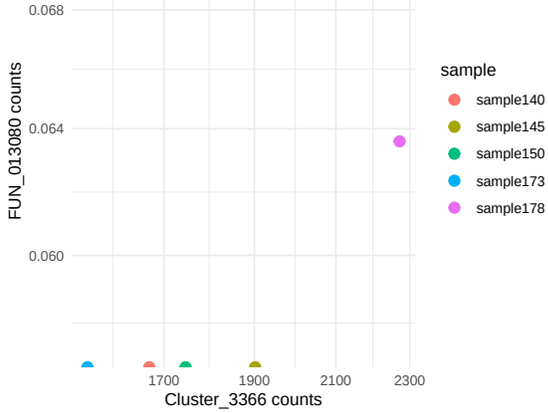
Cluster_3366 vs FUN_013080
Correlation: 0.888 | p−value: 0.044



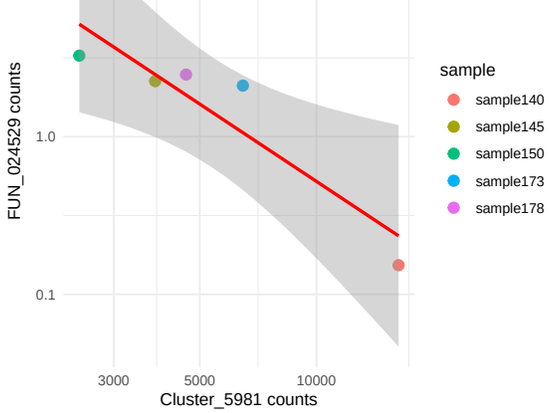
Cluster_5981 vs FUN_024529
Correlation: −0.974 | p−value: 0.00504



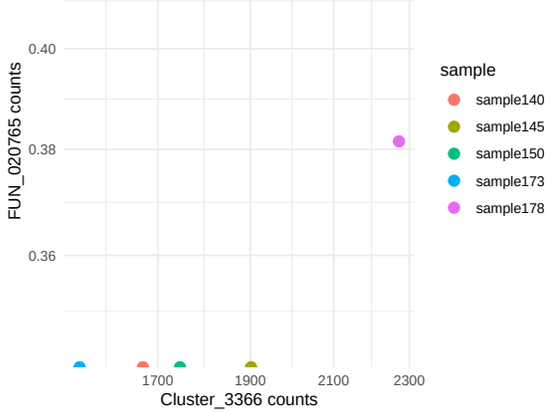
Cluster_3366 vs FUN_020765
Correlation: 0.888 | p−value: 0.044



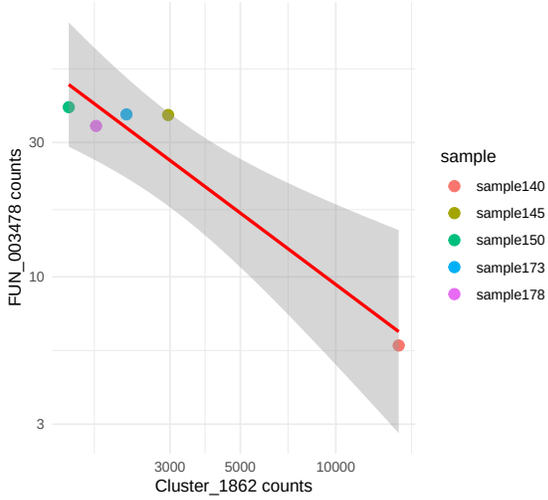
Cluster_1862 vs FUN_003478
Correlation: −0.987 | p−value: 0.00174



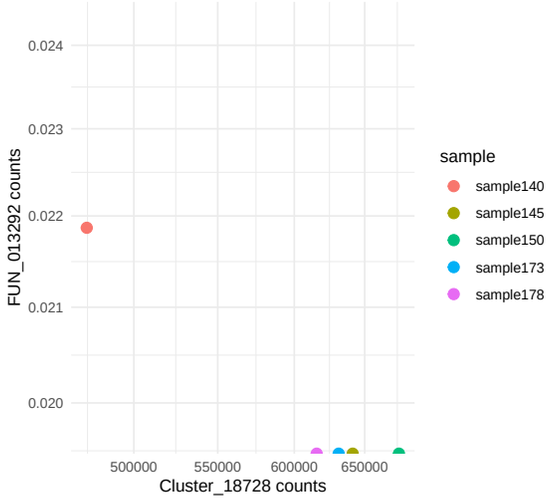
Cluster_18728 vs FUN_013292
Correlation: −0.959 | p−value: 0.01



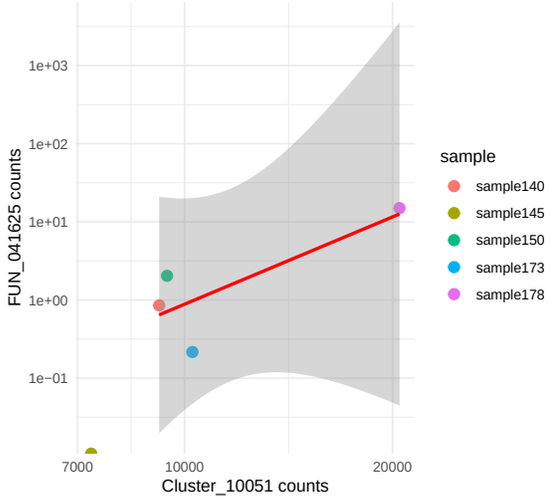
Cluster_10051 vs FUN_041625
Correlation: 0.98 | p−value: 0.00347



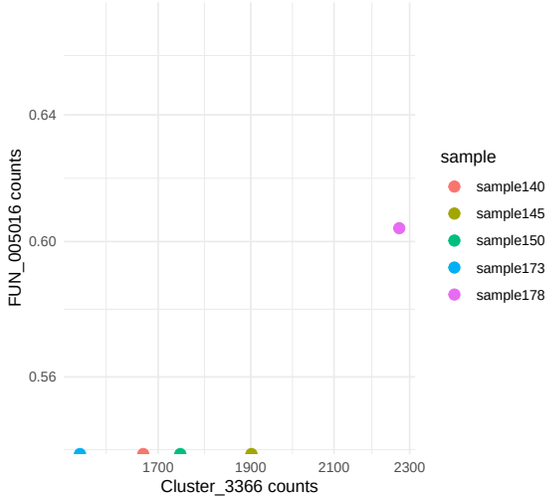
Cluster_3366 vs FUN_005016
Correlation: 0.888 | p−value: 0.044



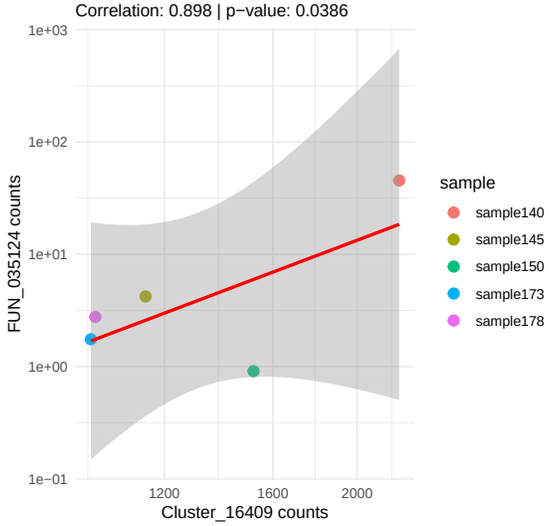
Cluster_16409 vs FUN_035124
Correlation: 0.898 | p−value: 0.0386



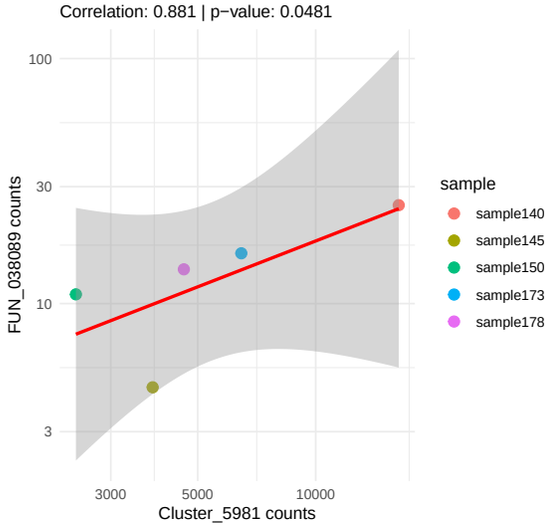
Cluster_5981 vs FUN_038089
Correlation: 0.881 | p−value: 0.0481



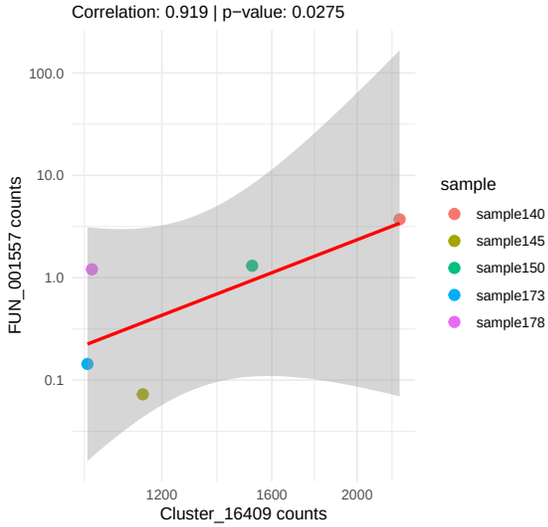
Cluster_16409 vs FUN_001557
Correlation: 0.919 | p−value: 0.0275



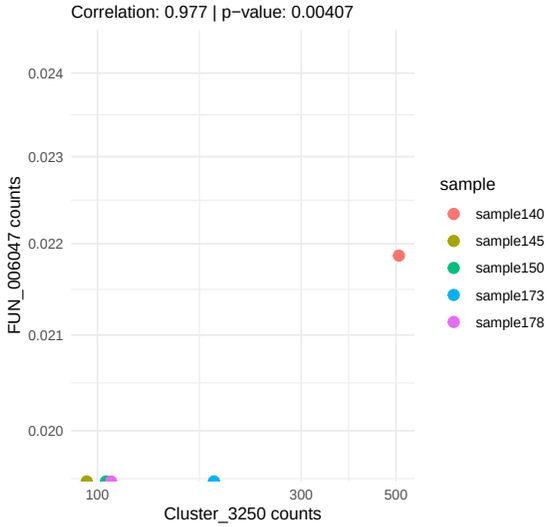
Cluster_3250 vs FUN_006047
Correlation: 0.977 | p−value: 0.00407



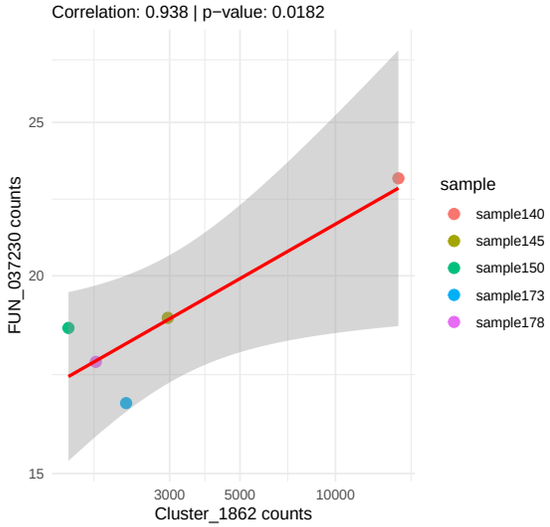
Cluster_1862 vs FUN_037230
Correlation: 0.938 | p−value: 0.0182



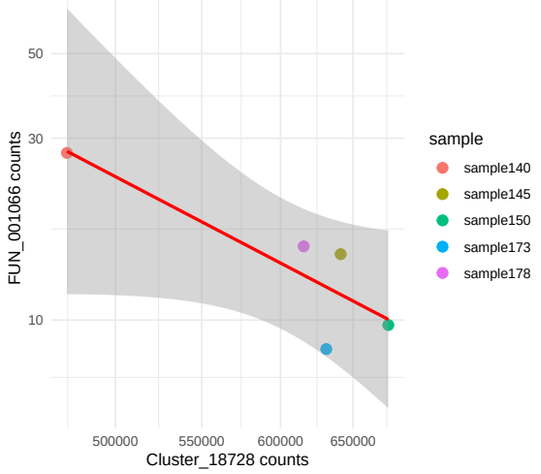
Cluster_18728 vs FUN_001066
Correlation: −0.929 | p−value: 0.0226



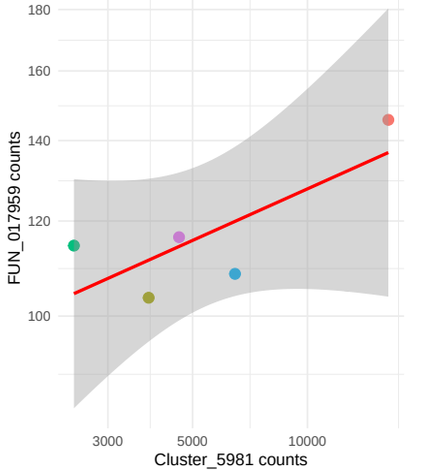
Cluster_5981 vs FUN_017959
Correlation: 0.9 | p−value: 0.0375



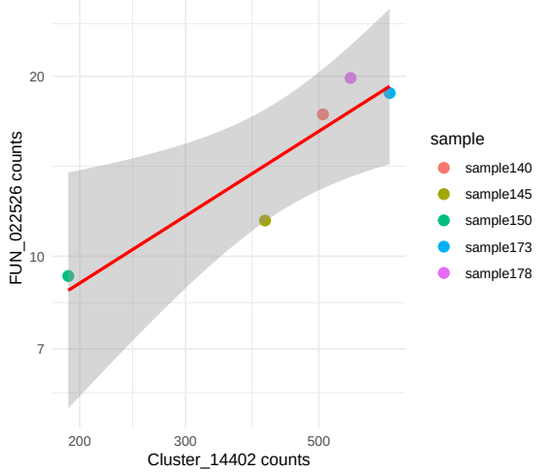
Cluster_14402 vs FUN_022526
Correlation: 0.922 | p−value: 0.0257



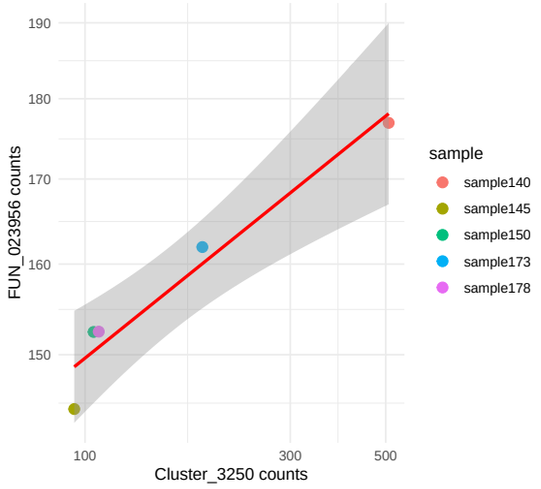
Cluster_3250 vs FUN_023956
Correlation: 0.942 | p−value: 0.0166



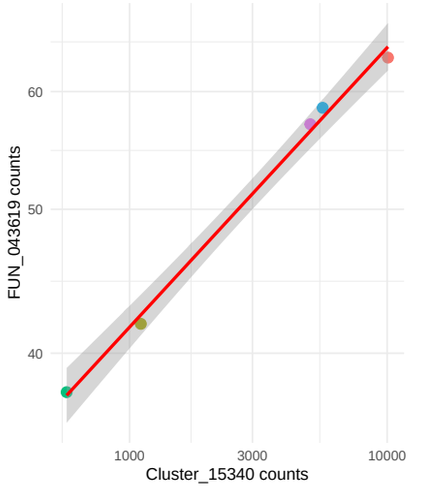
Cluster_15340 vs FUN_043619
Correlation: 0.945 | p−value: 0.0155



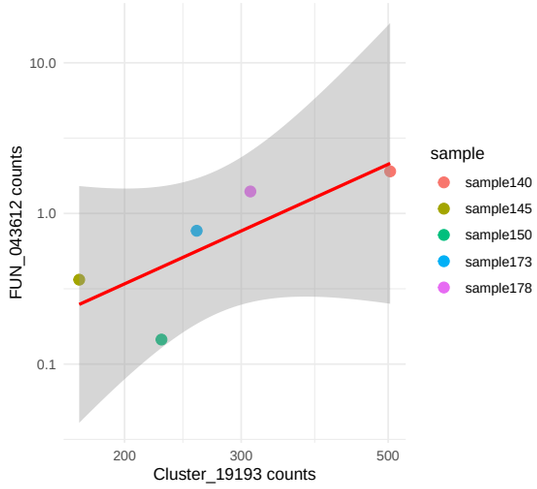
Cluster_19193 vs FUN_043612
Correlation: 0.911 | p−value: 0.0313



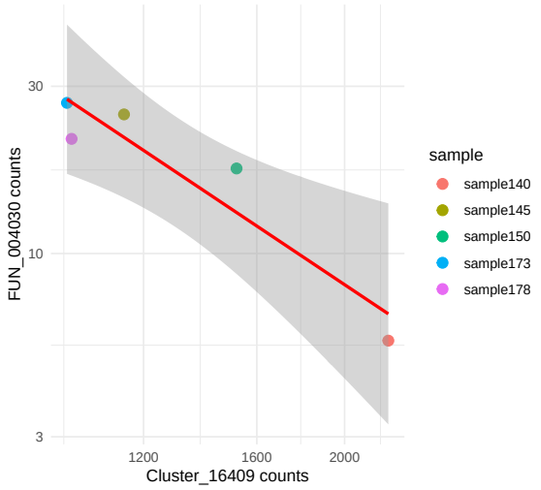
Cluster_16409 vs FUN_004030
Correlation: −0.96 | p−value: 0.00942



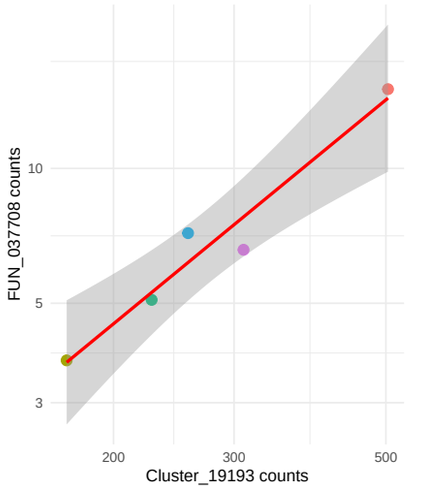
Cluster_19193 vs FUN_037708
Correlation: 0.978 | p−value: 0.00381



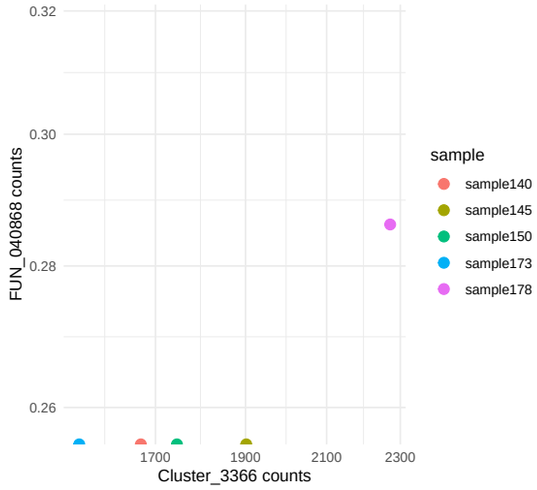
Cluster_3366 vs FUN_040868
Correlation: 0.888 | p−value: 0.044



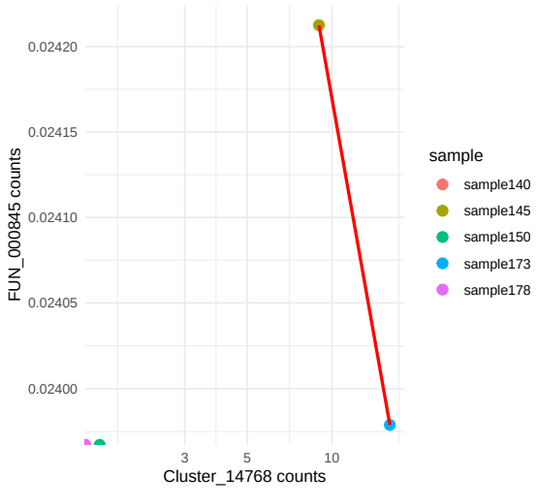
Cluster_14768 vs FUN_000845
Correlation: 0.929 | p−value: 0.0224



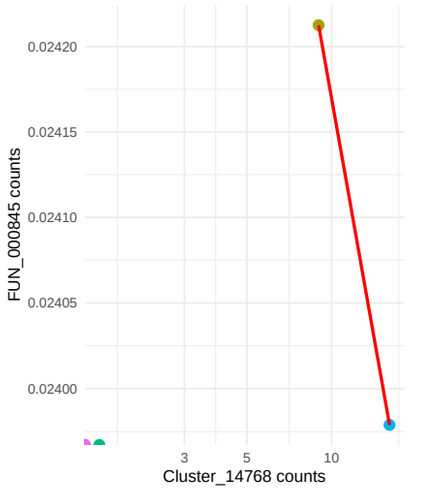
Cluster_14768 vs FUN_000845
Correlation: 0.929 | p−value: 0.0224



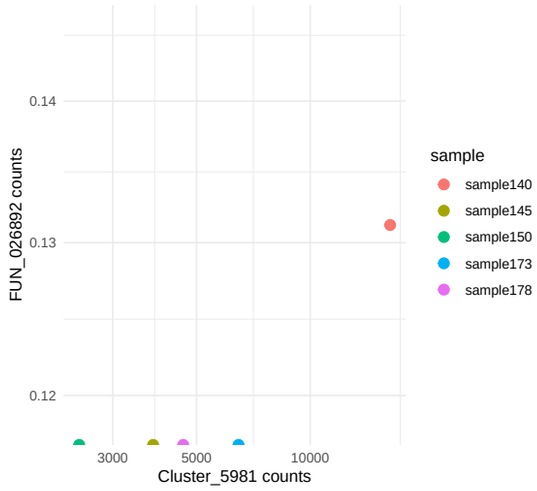
Cluster_5981 vs FUN_026892
Correlation: 0.965 | p−value: 0.00778



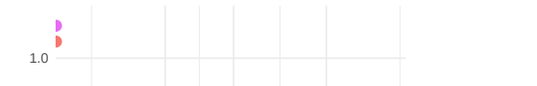
Cluster_18728 vs FUN_040469
Correlation: −0.959 | p−value: 0.01

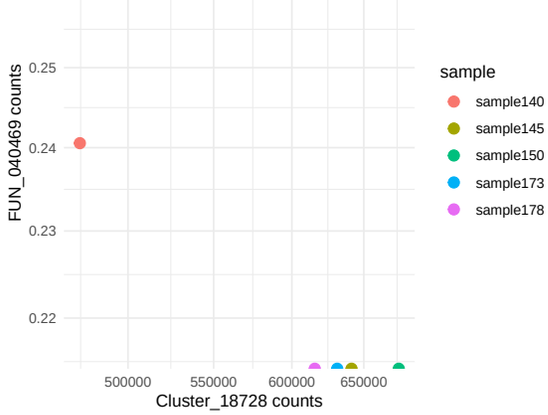


Cluster_15340 vs FUN_023778
Correlation: −0.886 | p−value: 0.0452

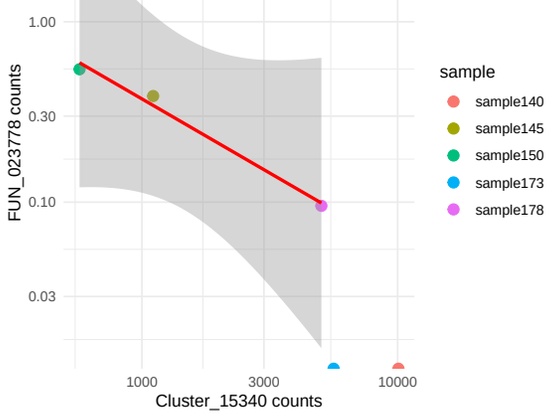


Cluster_14768 vs FUN_008327
Correlation: −0.969 | p−value: 0.0065

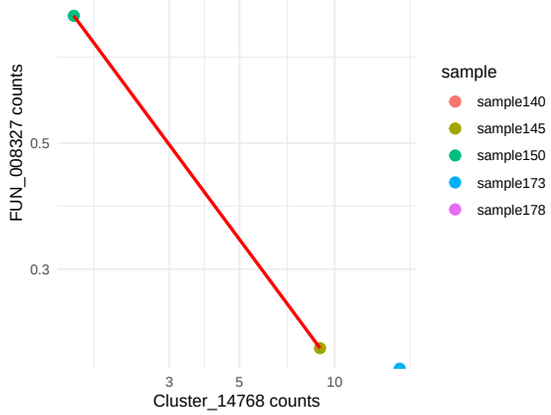




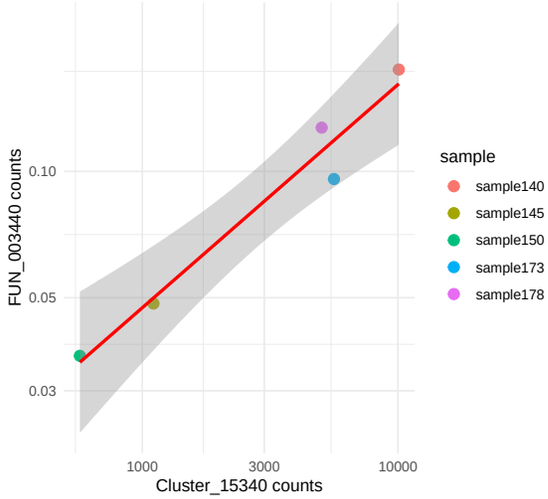
Cluster_15340 vs FUN_003440
Correlation: 0.968 | p−value: 0.00688



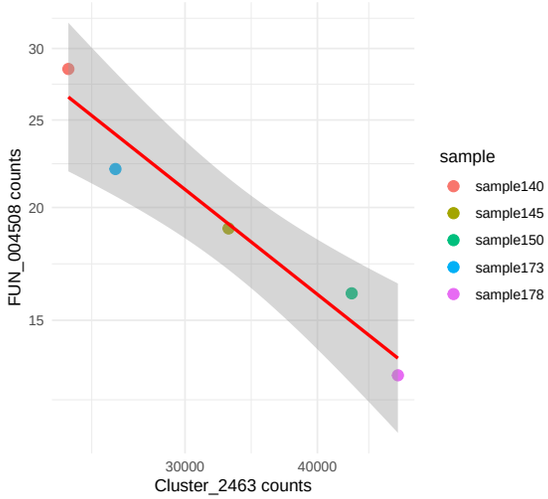
Cluster_2463 vs FUN_004508
Correlation: −0.94 | p−value: 0.0175



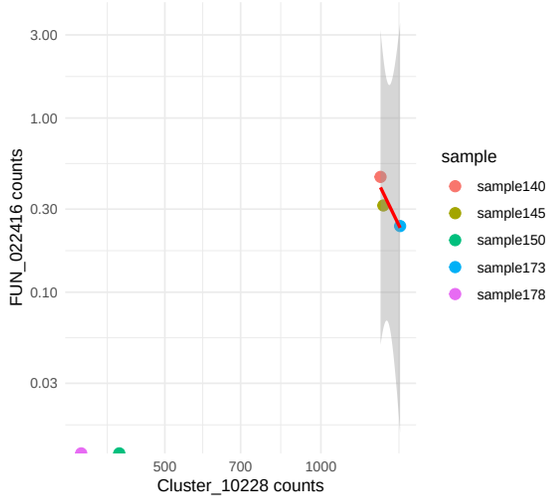
Cluster_10228 vs FUN_022416
Correlation: 0.888 | p−value: 0.0443



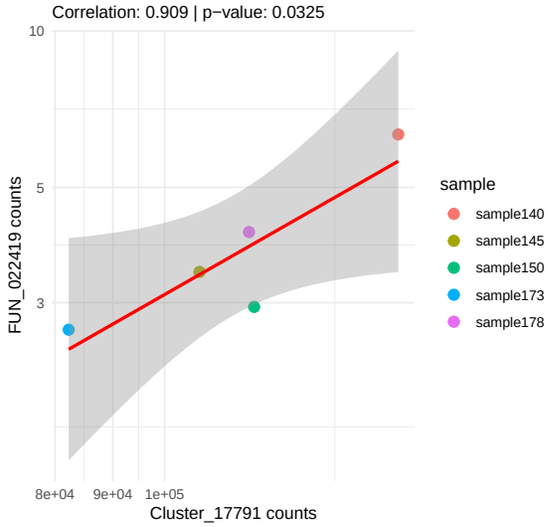
Cluster_17791 vs FUN_022419
Correlation: 0.909 | p−value: 0.0325



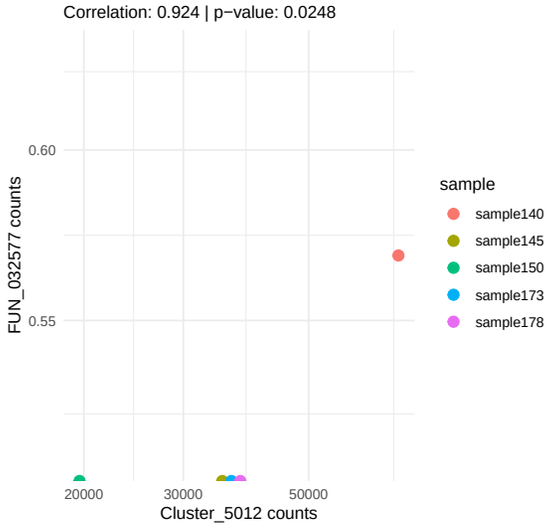
Cluster_5012 vs FUN_032577
Correlation: 0.924 | p−value: 0.0248



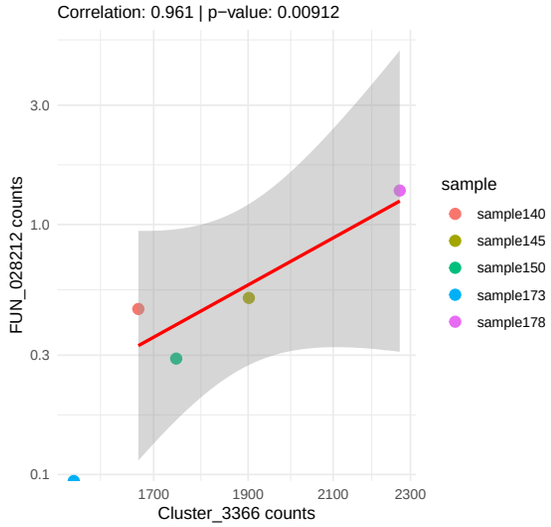
Cluster_3366 vs FUN_028212
Correlation: 0.961 | p−value: 0.00912



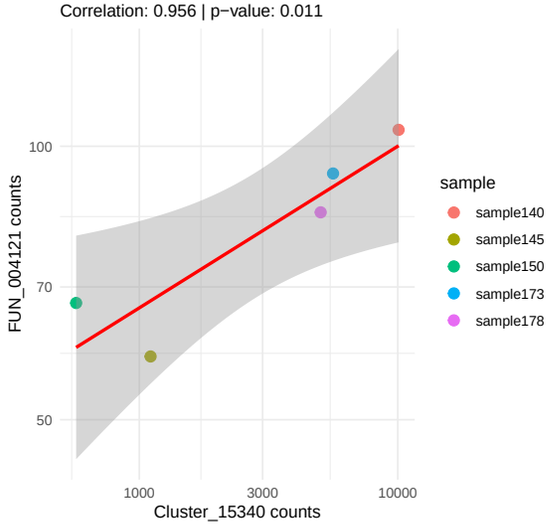
Cluster_15340 vs FUN_004121
Correlation: 0.956 | p−value: 0.011



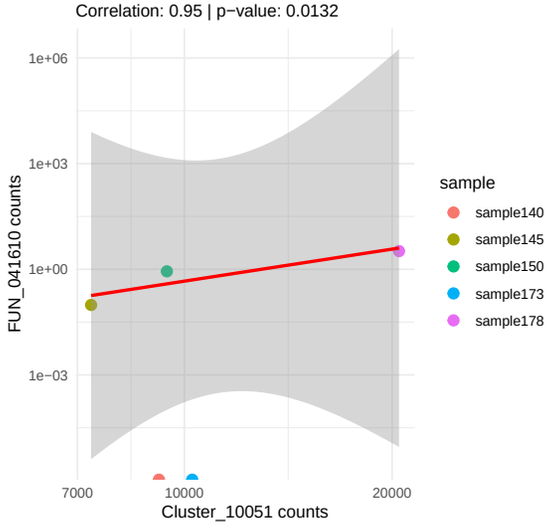
Cluster_10051 vs FUN_041610
Correlation: 0.95 | p−value: 0.0132



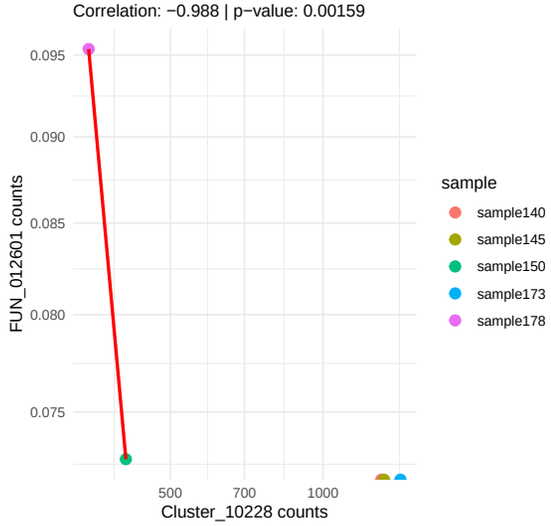
Cluster_10228 vs FUN_012601
Correlation: −0.988 | p−value: 0.00159



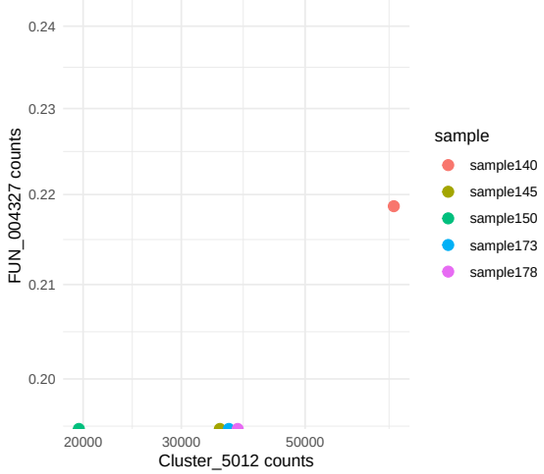
Cluster_5012 vs FUN_004327
Correlation: 0.924 | p−value: 0.0248



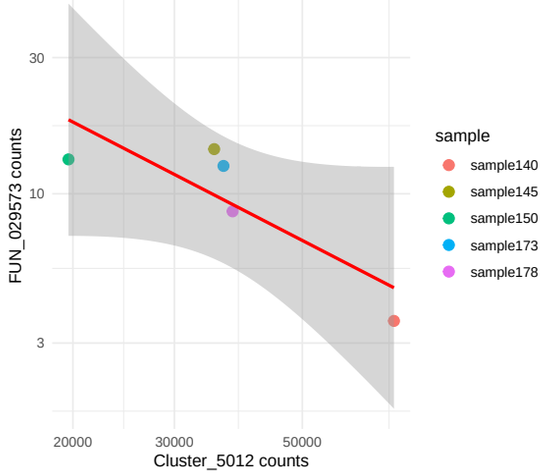
Cluster_5012 vs FUN_029573
Correlation: −0.882 | p−value: 0.0479



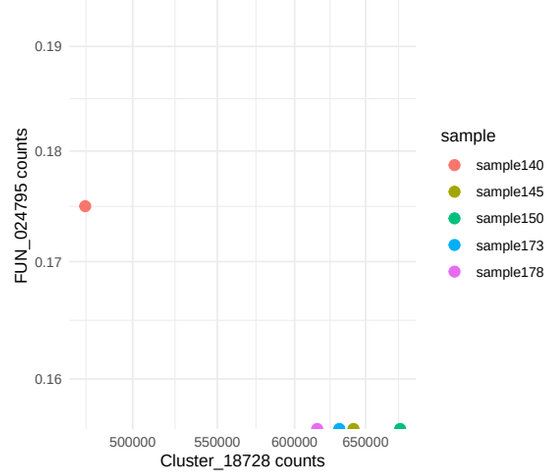
Cluster_18728 vs FUN_024795
Correlation: −0.959 | p−value: 0.01



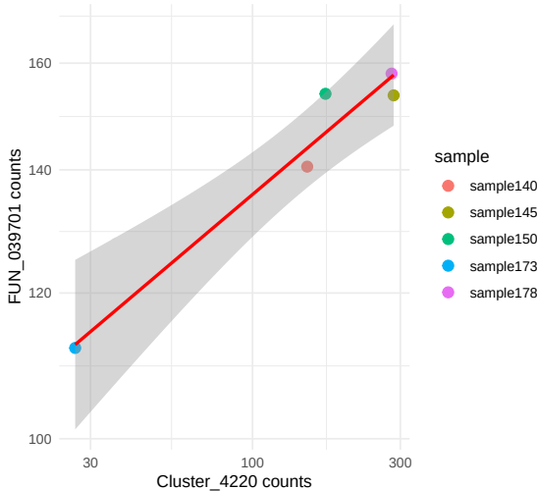
Cluster_4220 vs FUN_039701
Correlation: 0.913 | p−value: 0.0306



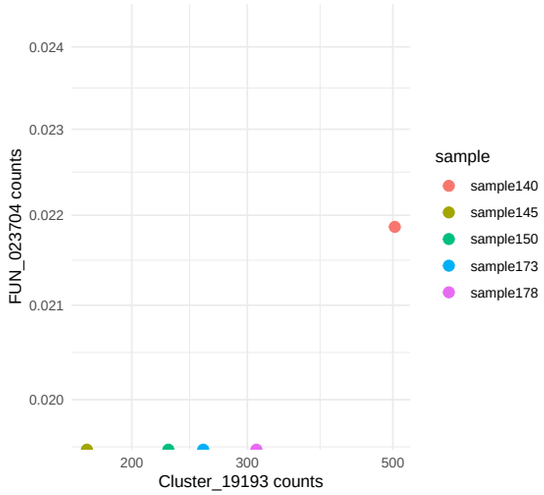
Cluster_19193 vs FUN_023704
Correlation: 0.919 | p−value: 0.0272



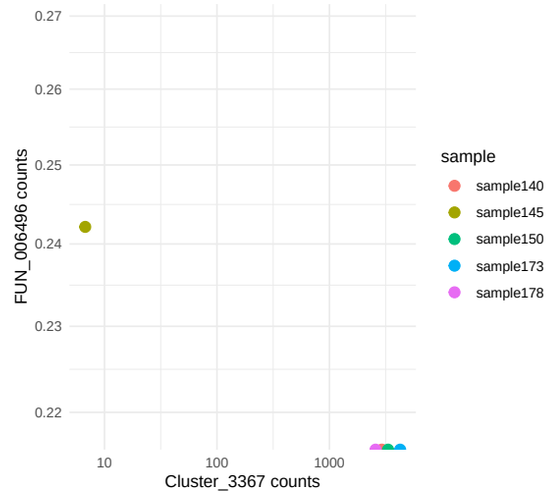
Cluster_3367 vs FUN_006496
Correlation: −0.918 | p−value: 0.0277



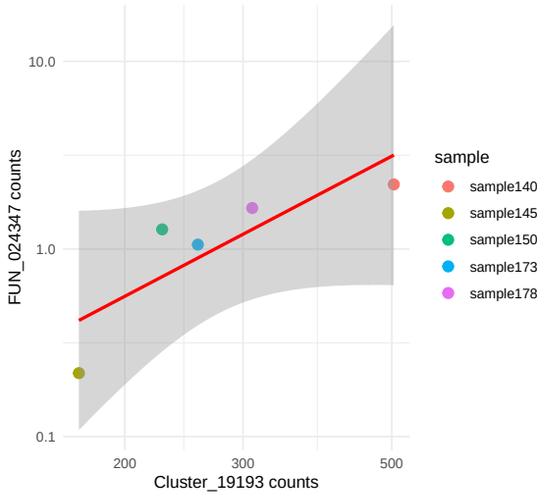
Cluster_19193 vs FUN_024347
Correlation: 0.903 | p−value: 0.036



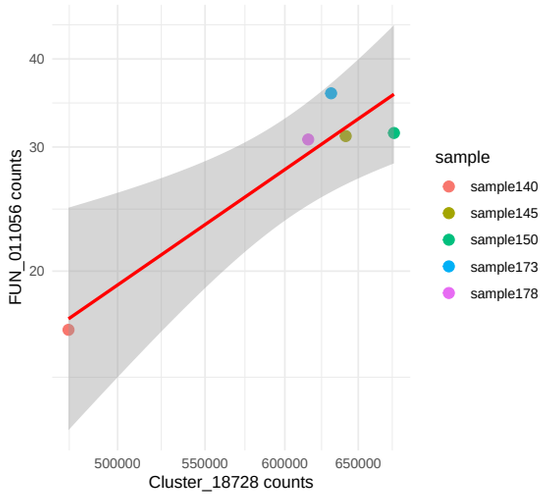
Cluster_18728 vs FUN_011056
Correlation: 0.91 | p−value: 0.0322



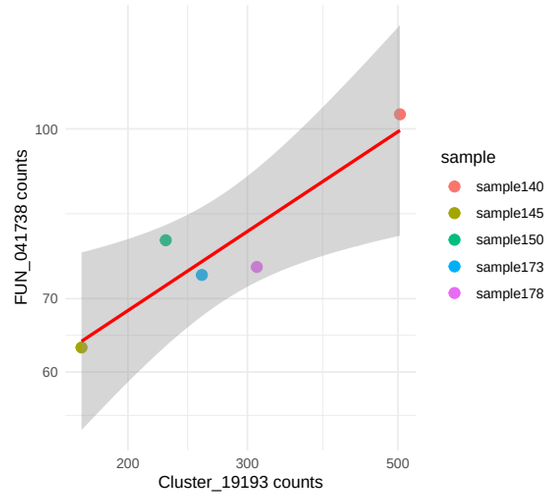
Cluster_19193 vs FUN_041738
Correlation: 0.942 | p−value: 0.0165



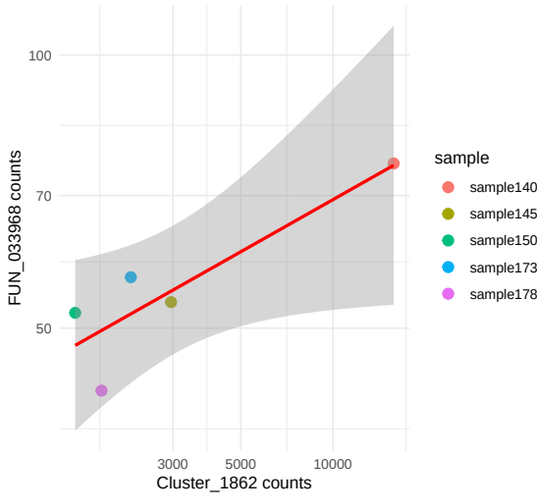
Cluster_1862 vs FUN_033968
Correlation: 0.915 | p−value: 0.0294



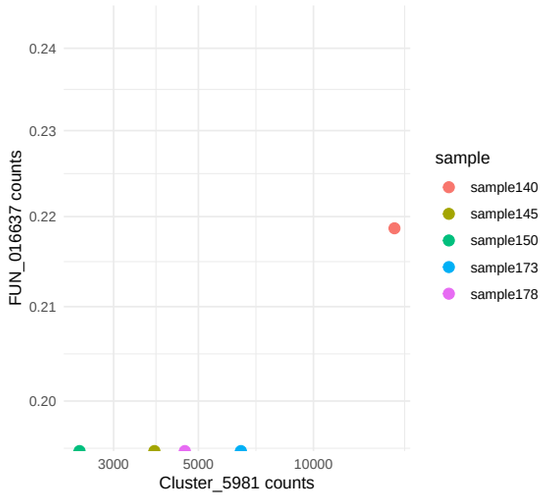
Cluster_5981 vs FUN_016637
Correlation: 0.965 | p−value: 0.00778



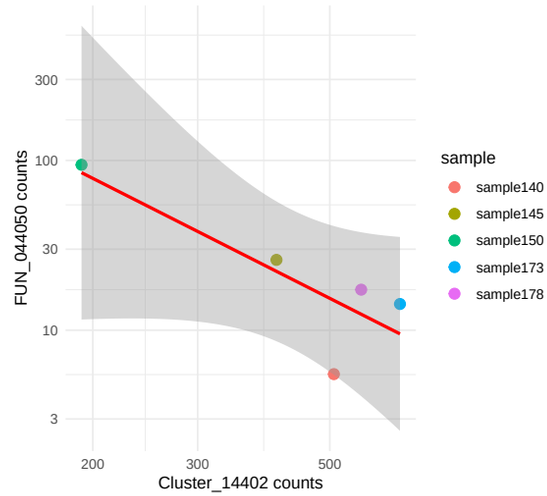
Cluster_14402 vs FUN_044050
Correlation: −0.889 | p−value: 0.0437



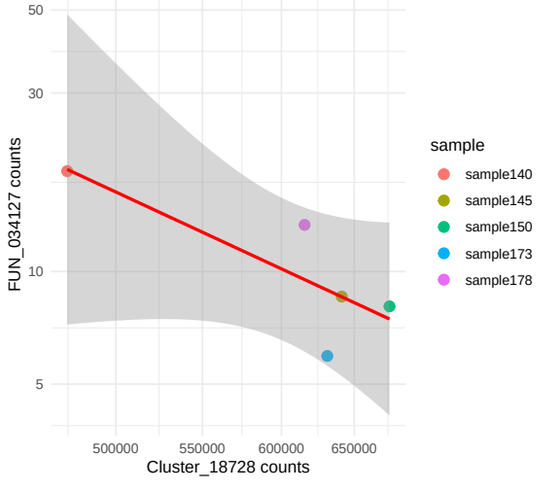
Cluster_18728 vs FUN_034127
Correlation: −0.883 | p−value: 0.0474



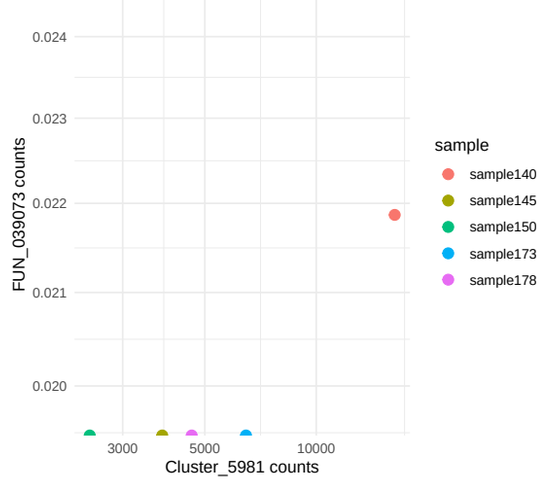
Cluster_5981 vs FUN_039073
Correlation: 0.965 | p−value: 0.00778



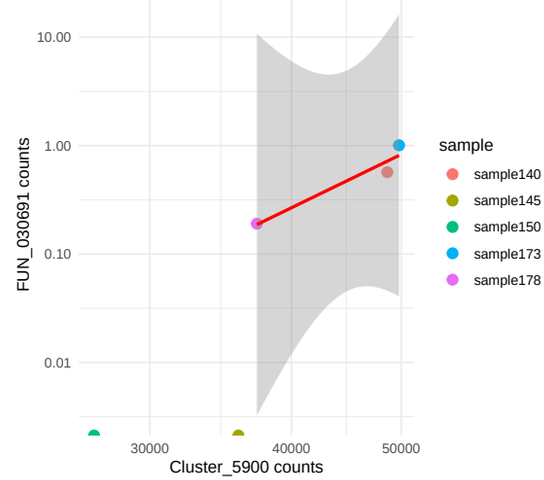
Cluster_5900 vs FUN_030691
Correlation: 0.891 | p−value: 0.0425



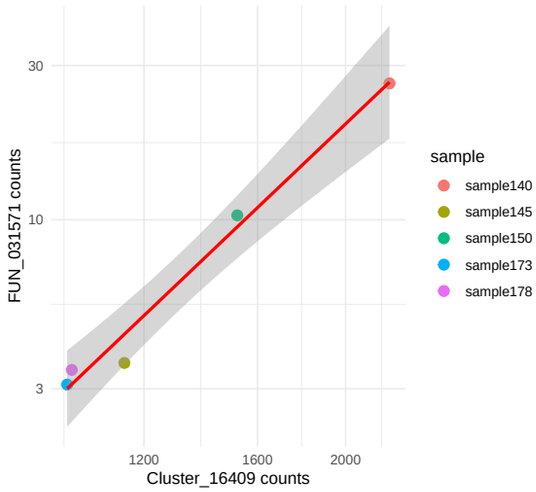
Cluster_16409 vs FUN_031571
Correlation: 0.99 | p−value: 0.00123



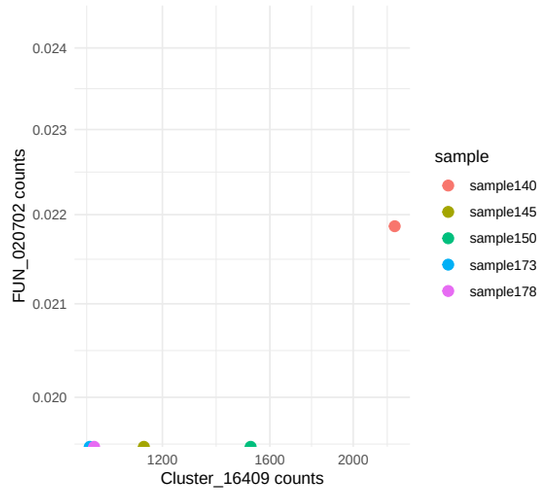
Cluster_16409 vs FUN_020702
Correlation: 0.912 | p−value: 0.0307



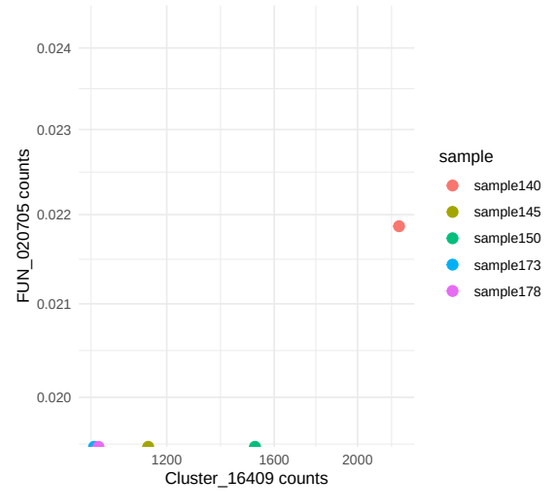
Cluster_16409 vs FUN_020705
Correlation: 0.912 | p−value: 0.0307



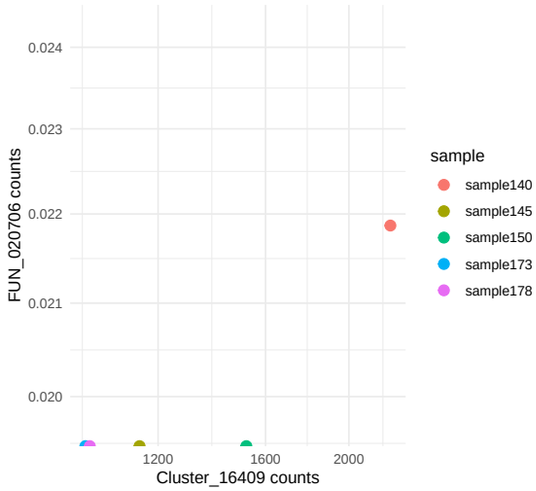
Cluster_16409 vs FUN_020706
Correlation: 0.912 | p−value: 0.0307



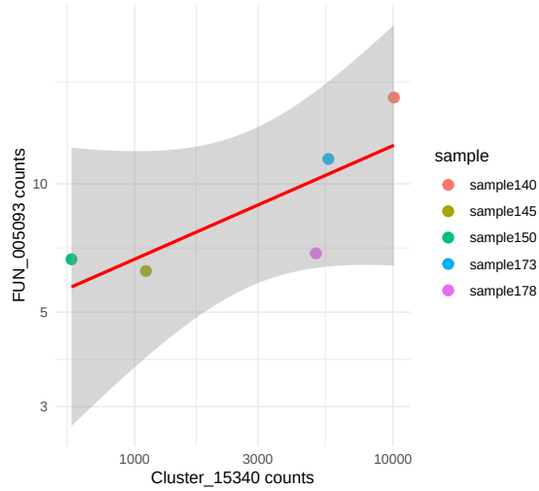
Cluster_15340 vs FUN_005093
Correlation: 0.907 | p−value: 0.0337



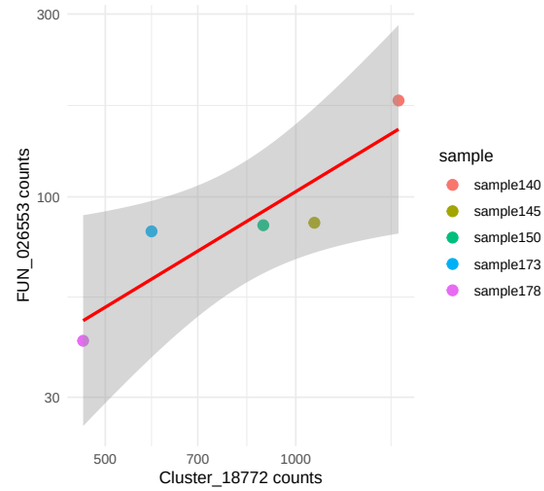
Cluster_18772 vs FUN_026553
Correlation: 0.907 | p−value: 0.0335



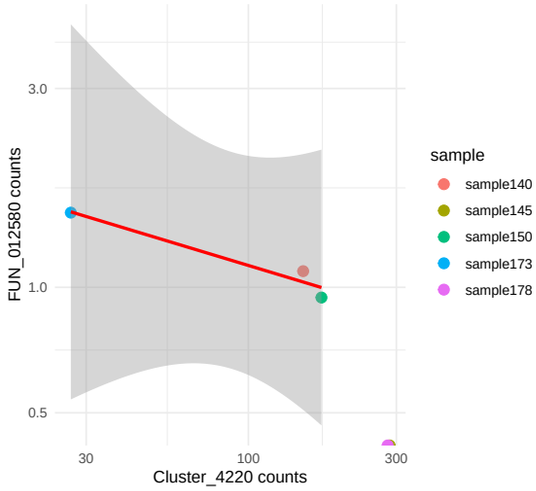
Cluster_4220 vs FUN_012580
Correlation: −0.971 | p−value: 0.00577



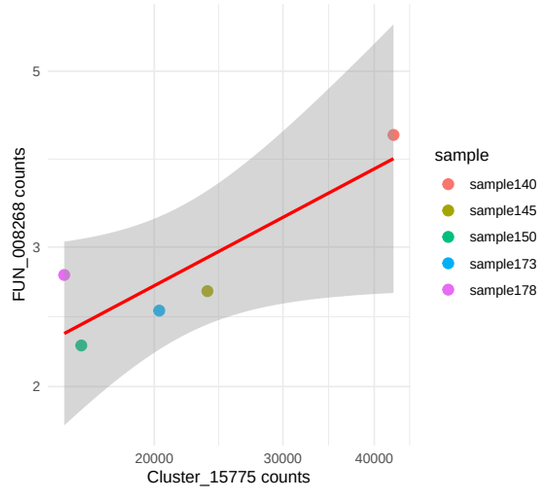
Cluster_15775 vs FUN_008268
Correlation: 0.931 | p−value: 0.0215



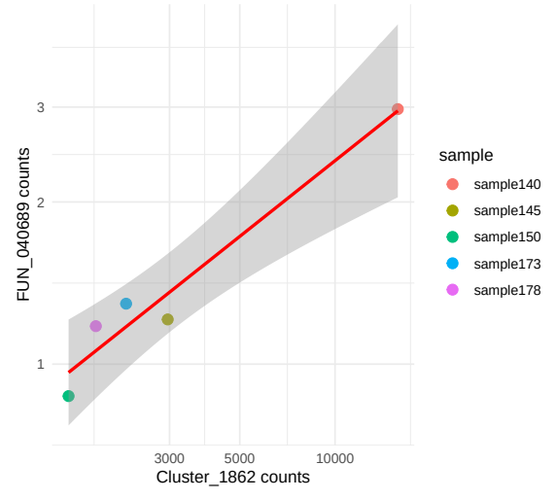
Cluster_1862 vs FUN_040689
Correlation: 0.989 | p−value: 0.00139



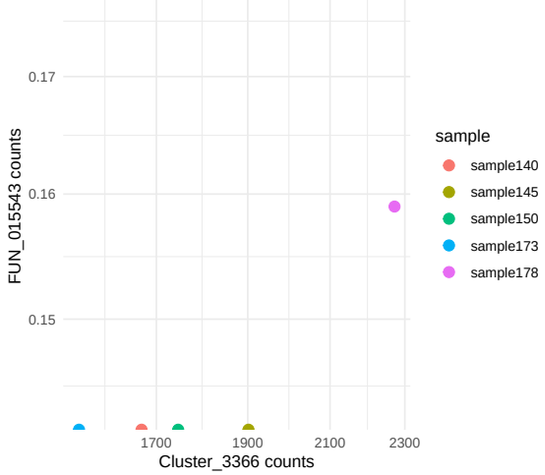
Cluster_3366 vs FUN_015543
Correlation: 0.888 | p−value: 0.044



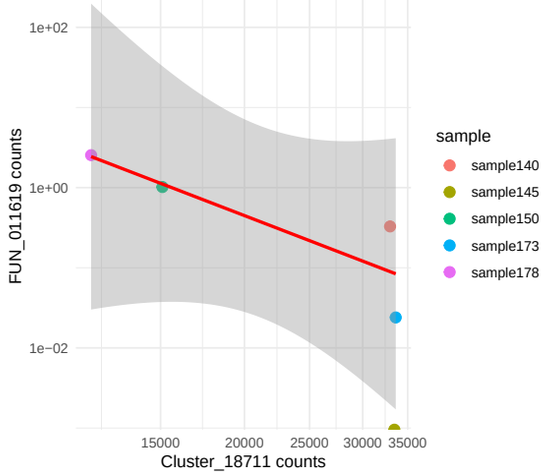
Cluster_18711 vs FUN_011619
Correlation: −0.905 | p−value: 0.0346



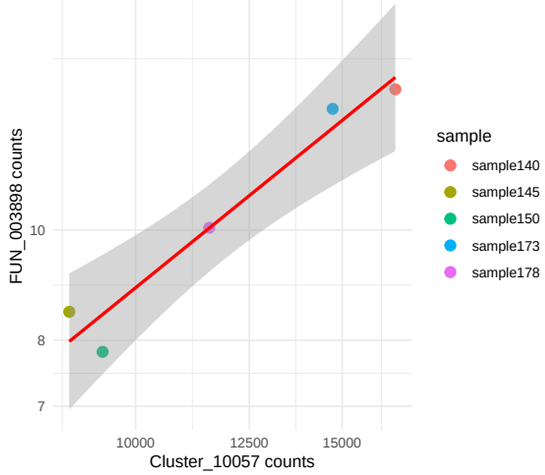
Cluster_10057 vs FUN_003898
Correlation: 0.98 | p−value: 0.00348



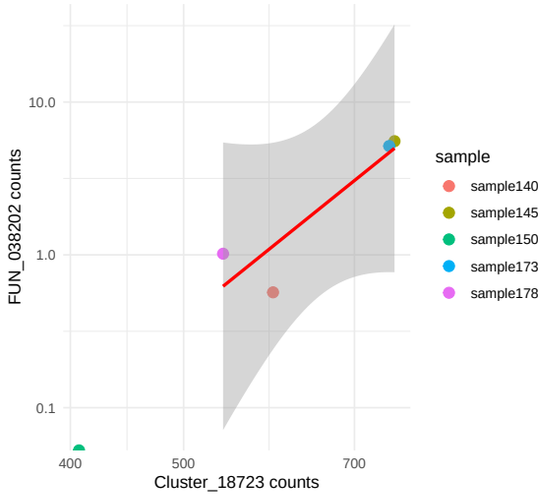
Cluster_18723 vs FUN_038202
Correlation: 0.923 | p−value: 0.0255



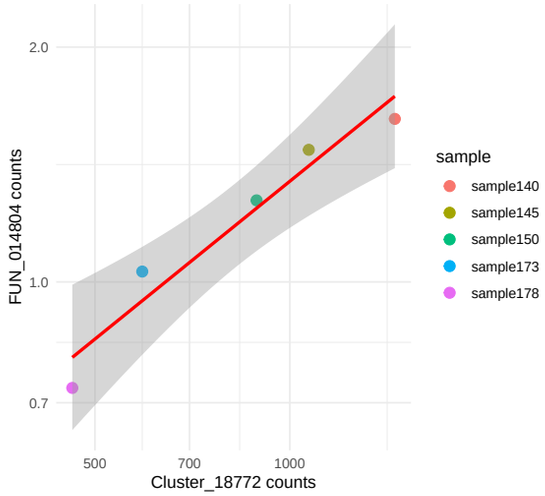
Cluster_18772 vs FUN_014804
Correlation: 0.96 | p−value: 0.00967



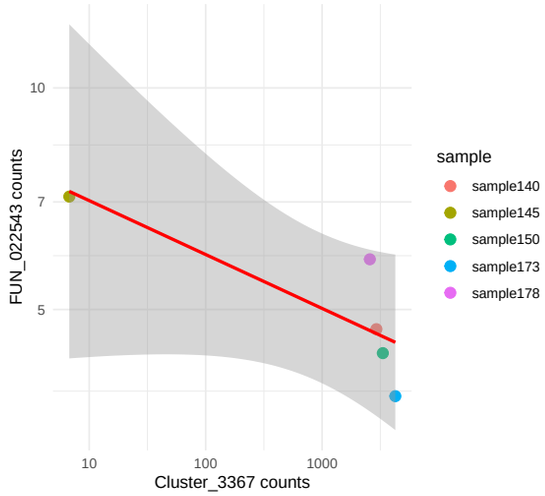
Cluster_3367 vs FUN_022543
Correlation: −0.96 | p−value: 0.00947



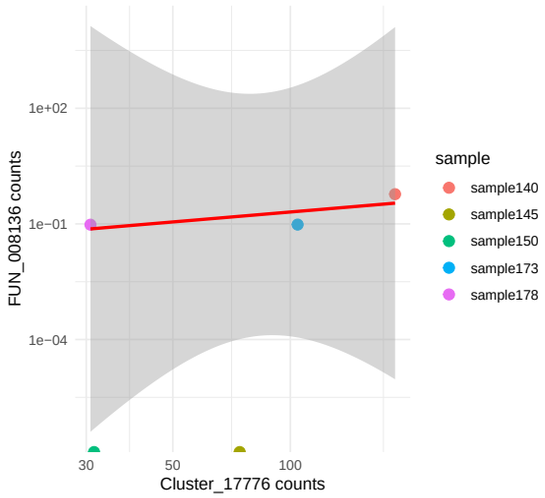
Cluster_17776 vs FUN_008136
Correlation: 0.881 | p−value: 0.0483



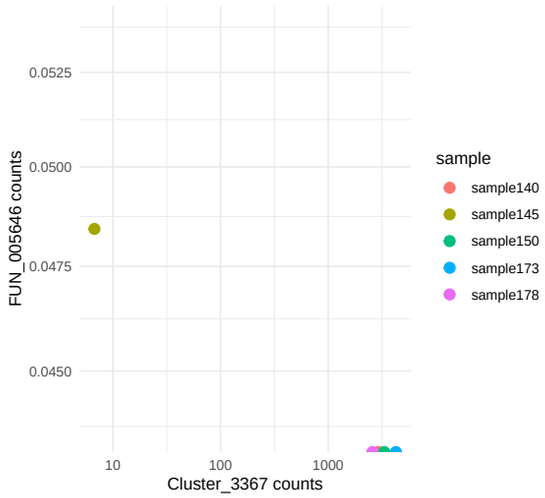
Cluster_3367 vs FUN_005646
Correlation: −0.918 | p−value: 0.0277



Cluster_3366 vs FUN_026050
Correlation: 0.89 | p−value: 0.0429



Cluster_16409 vs FUN_019787
Correlation: 0.912 | p−value: 0.0307



Cluster_16409 vs FUN_019788
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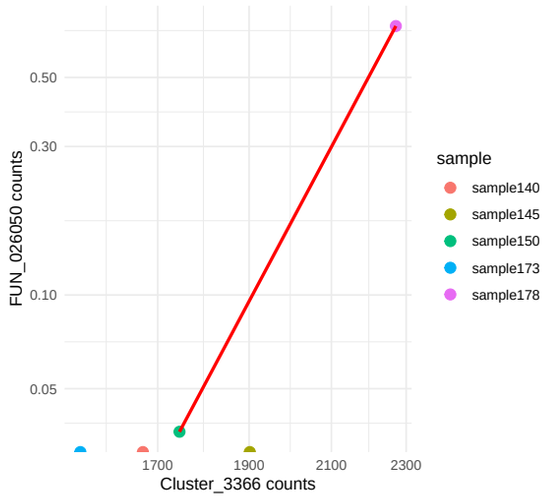
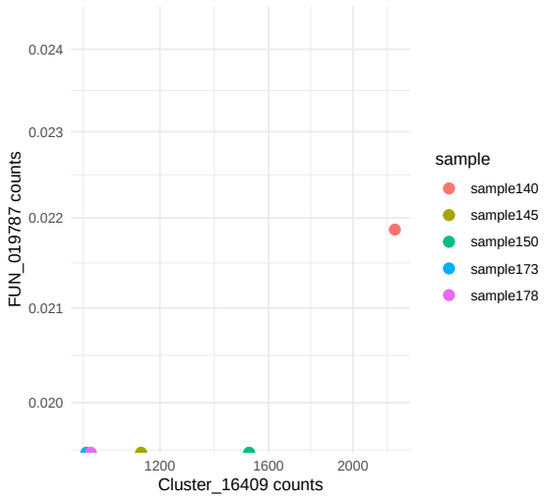
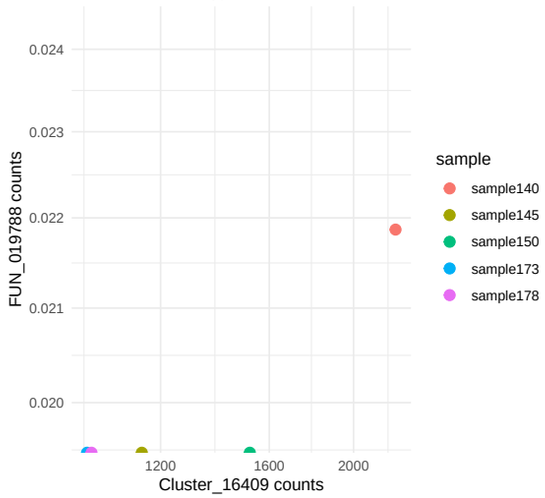


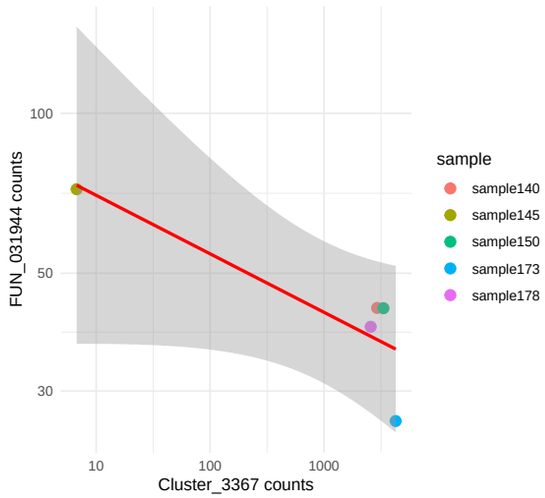
Cluster_3367 vs FUN_031944
Correlation: −0.97 | p−value: 0.0062



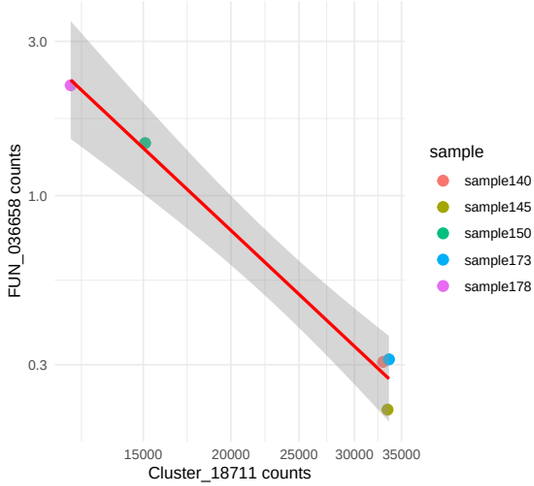
Cluster_18711 vs FUN_036658
Correlation: −0.98 | p−value: 0.00329



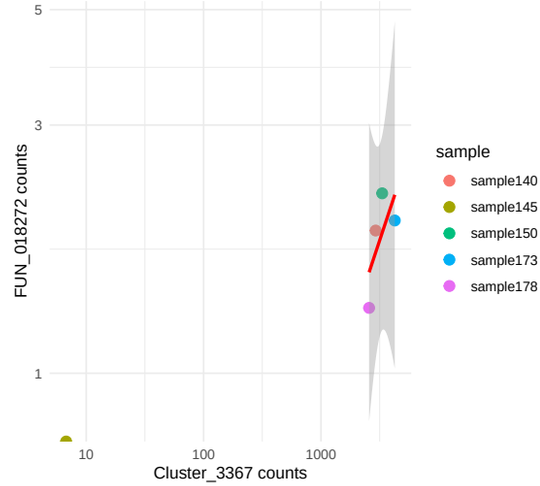
Cluster_3367 vs FUN_018272
Correlation: 0.942 | p−value: 0.0168



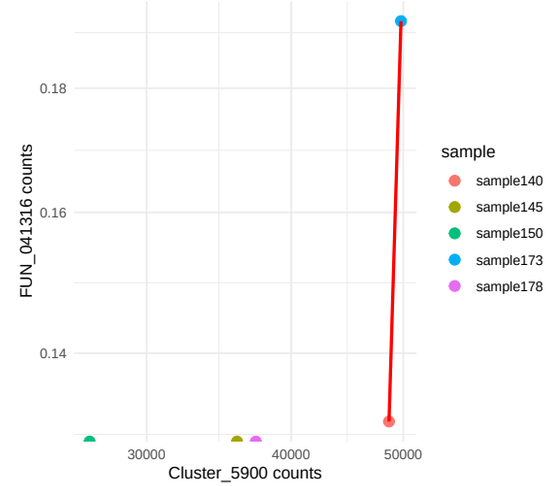
Cluster_5900 vs FUN_041316
Correlation: 0.891 | p−value: 0.0426



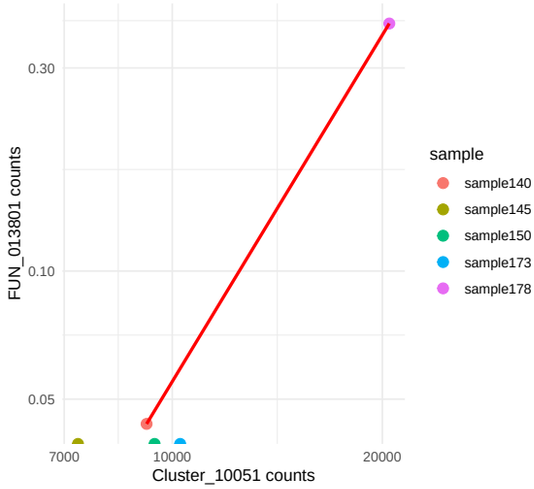
Cluster_10051 vs FUN_013801
Correlation: 0.974 | p−value: 0.00503



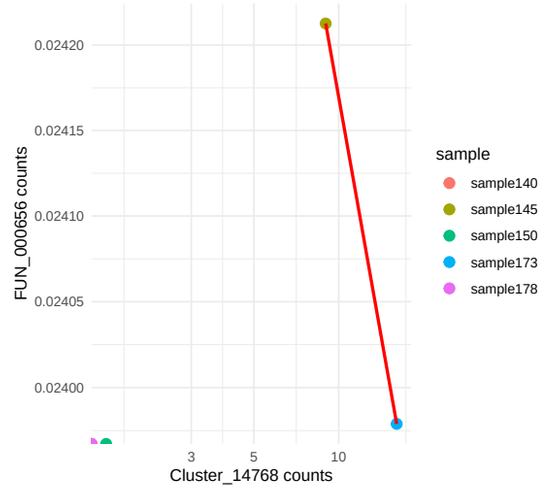
Cluster_14768 vs FUN_000656
Correlation: 0.929 | p−value: 0.0224



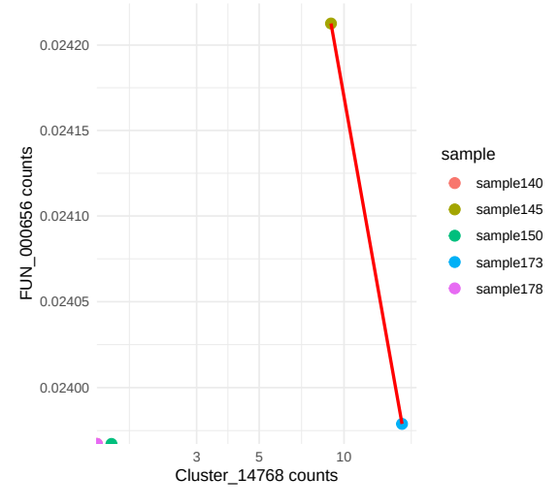
Cluster_14768 vs FUN_000656
Correlation: 0.929 | p−value: 0.0224



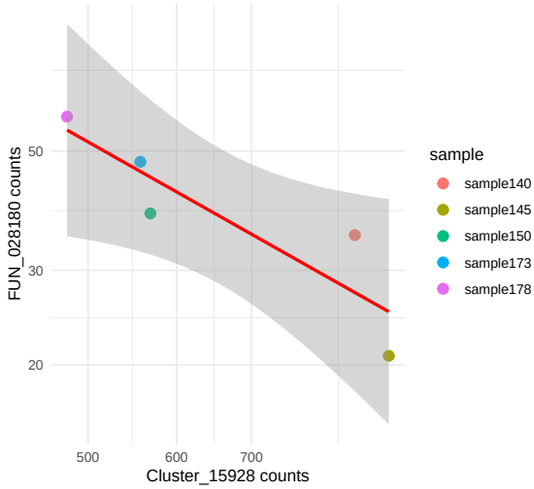
Cluster_15928 vs FUN_028180
Correlation: −0.892 | p−value: 0.0421



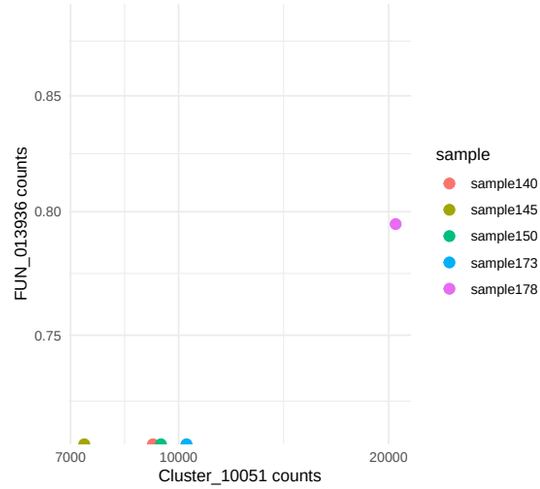
Cluster_10051 vs FUN_013936
Correlation: 0.979 | p−value: 0.00375



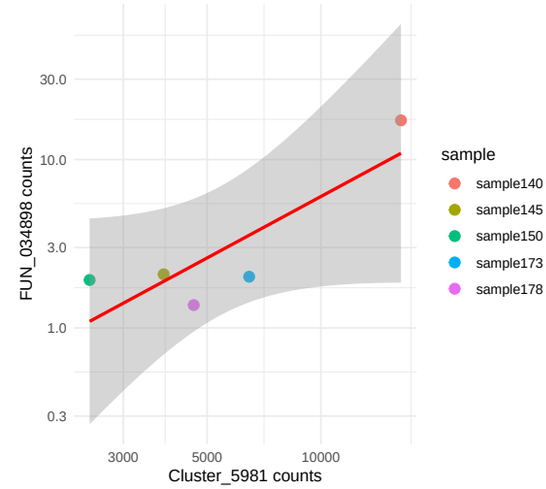
Cluster_5981 vs FUN_034898
Correlation: 0.964 | p−value: 0.00816



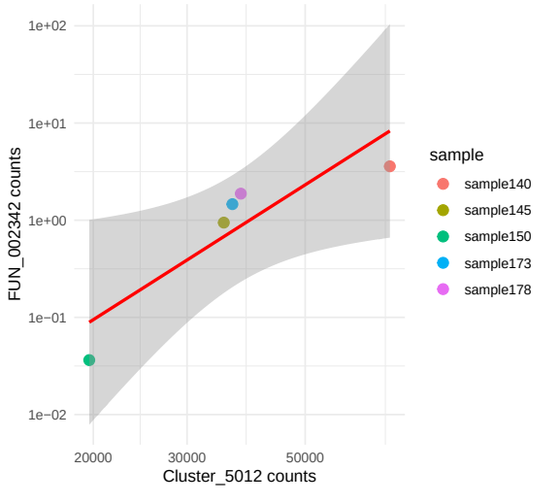
Cluster_5012 vs FUN_002342
Correlation: 0.974 | p−value: 0.00504



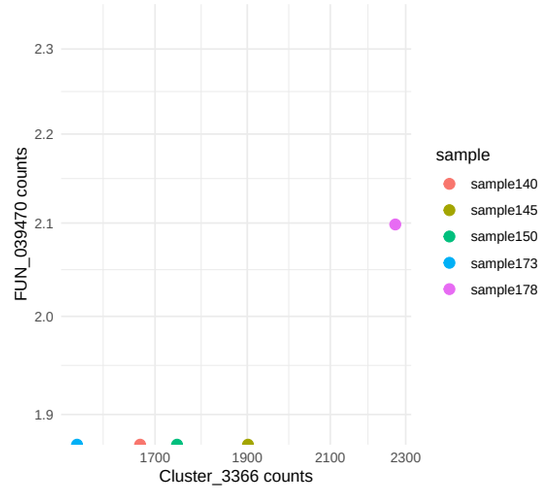
Cluster_3366 vs FUN_039470
Correlation: 0.888 | p−value: 0.044



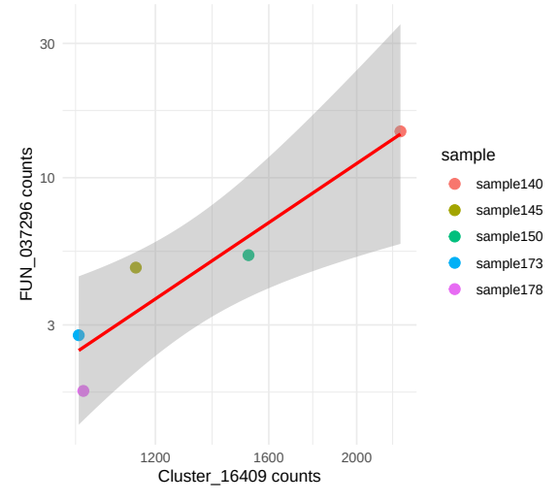
Cluster_16409 vs FUN_037296
Correlation: 0.971 | p−value: 0.00593



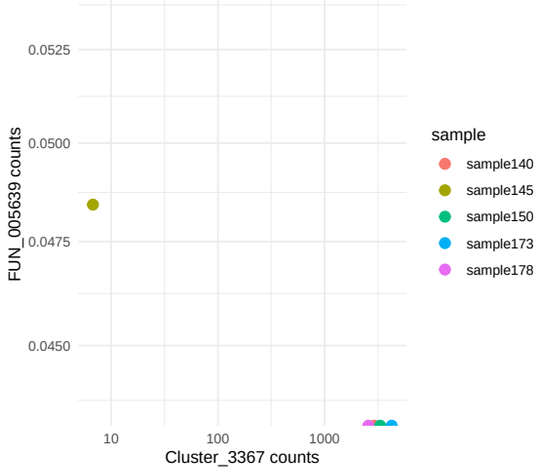
Cluster_3367 vs FUN_005639
Correlation: −0.918 | p−value: 0.0277



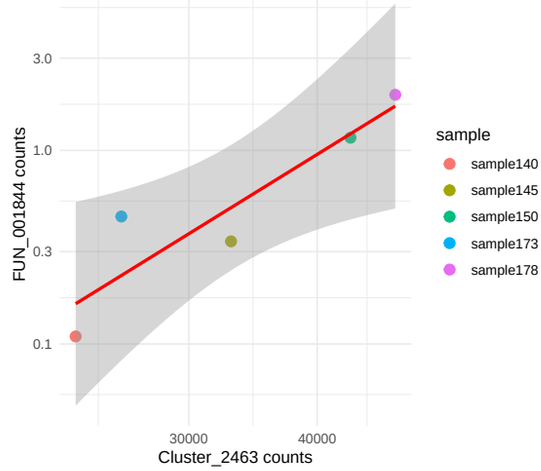
Cluster_2463 vs FUN_001844
Correlation: 0.93 | p−value: 0.0218



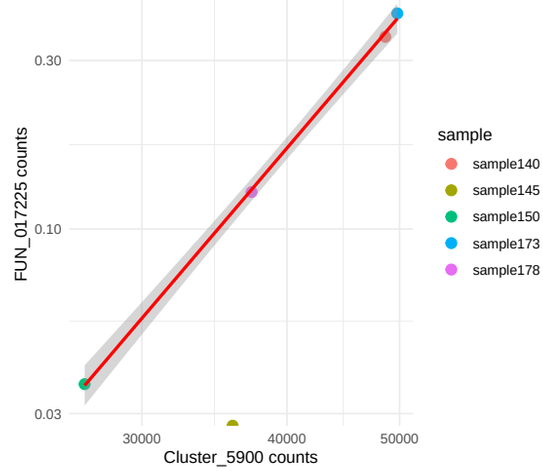
Cluster_5900 vs FUN_017225
Correlation: 0.914 | p−value: 0.0301



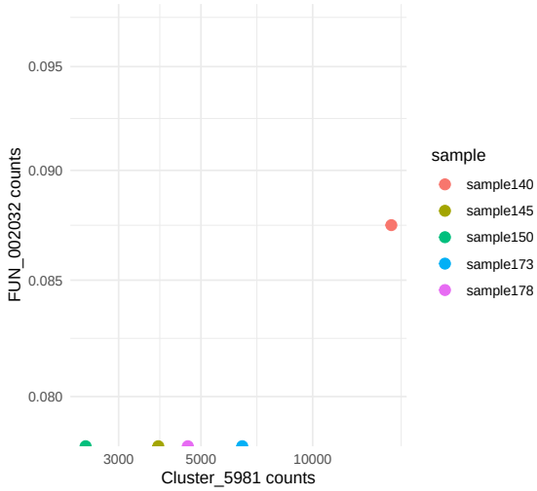
Cluster_5981 vs FUN_002032
Correlation: 0.965 | p−value: 0.00778



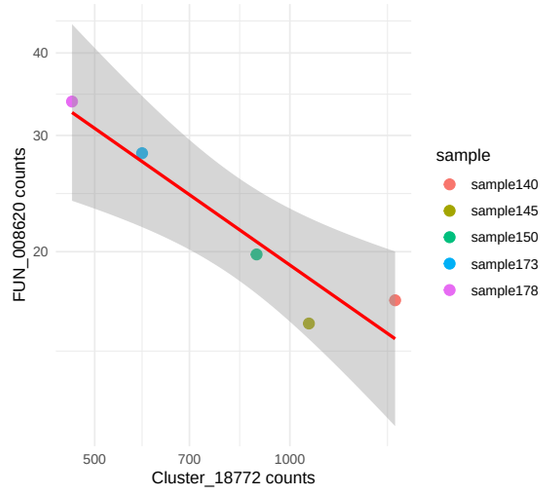
Cluster_18772 vs FUN_008620
Correlation: −0.885 | p−value: 0.046



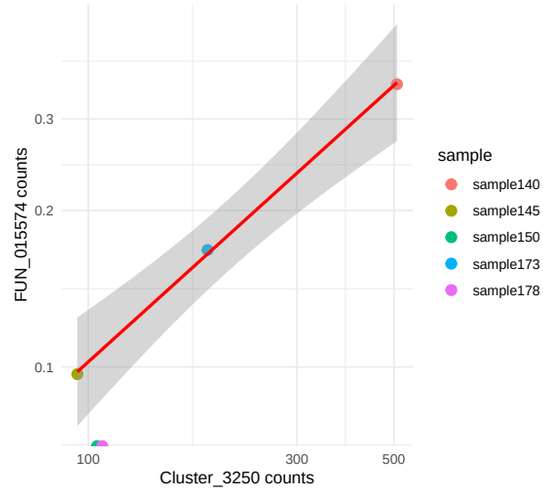
Cluster_3250 vs FUN_015574
Correlation: 0.931 | p−value: 0.0216



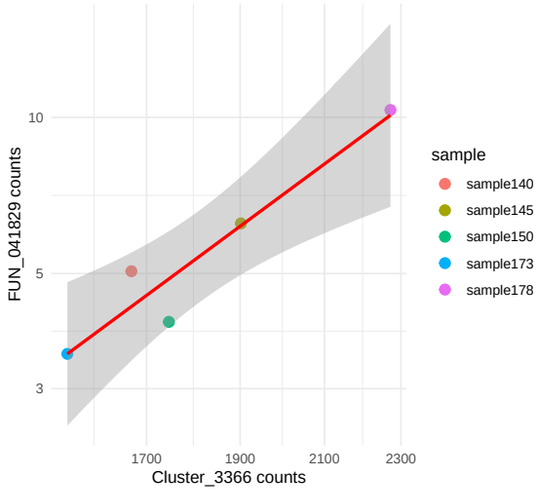
Cluster_3366 vs FUN_041829
Correlation: 0.969 | p−value: 0.00662



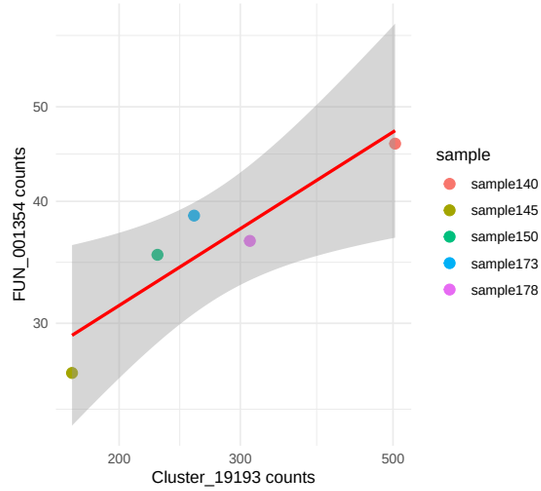
Cluster_19193 vs FUN_001354
Correlation: 0.901 | p−value: 0.037



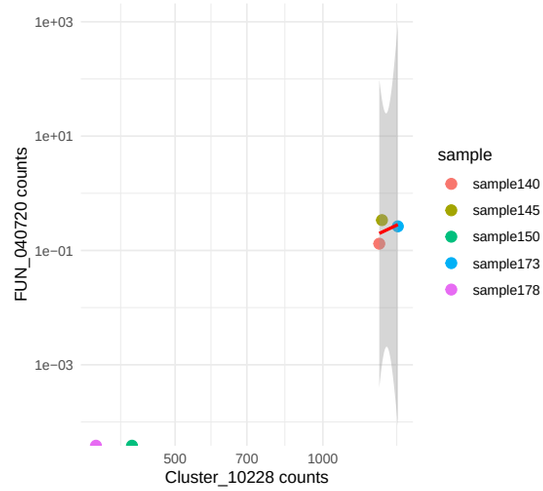
Cluster_10228 vs FUN_040720
Correlation: 0.882 | p−value: 0.0478



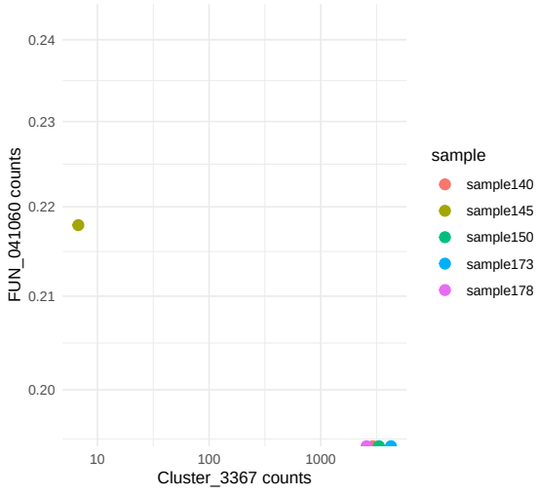
Cluster_3367 vs FUN_041060
Correlation: −0.918 | p−value: 0.0277



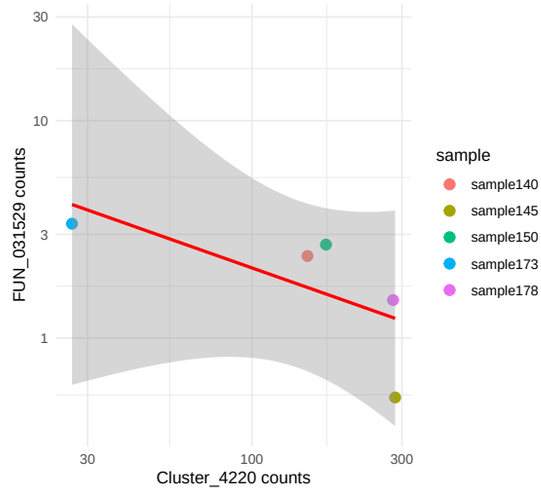
Cluster_4220 vs FUN_031529
Correlation: −0.919 | p−value: 0.0271



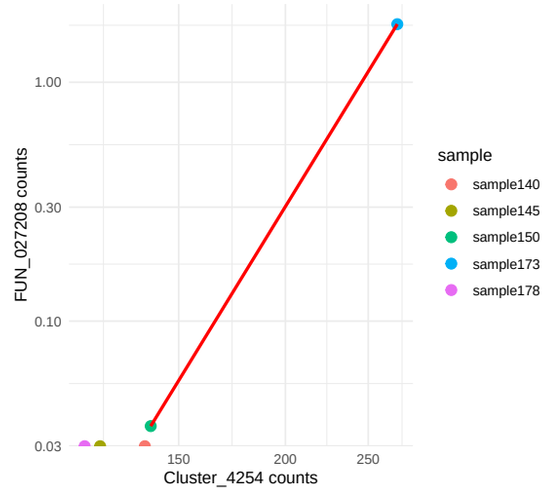
Cluster_4254 vs FUN_027208
Correlation: 0.99 | p−value: 0.00117



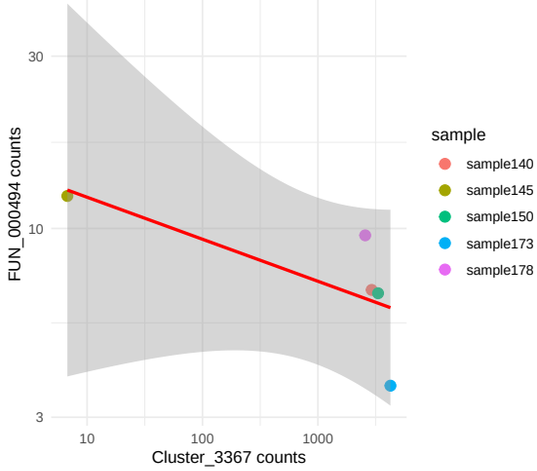
Cluster_3367 vs FUN_000494
Correlation: −0.949 | p−value: 0.0138



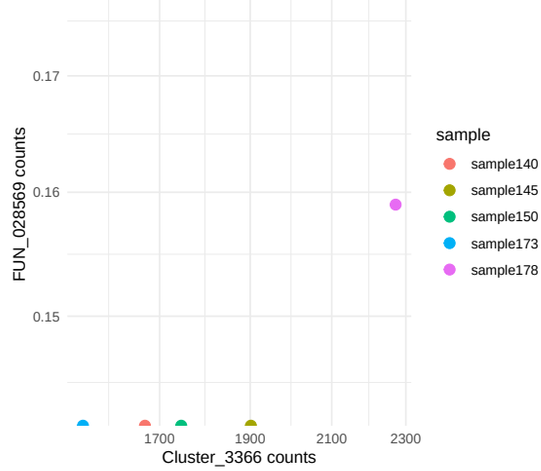
Cluster_3366 vs FUN_028569
Correlation: 0.888 | p−value: 0.044



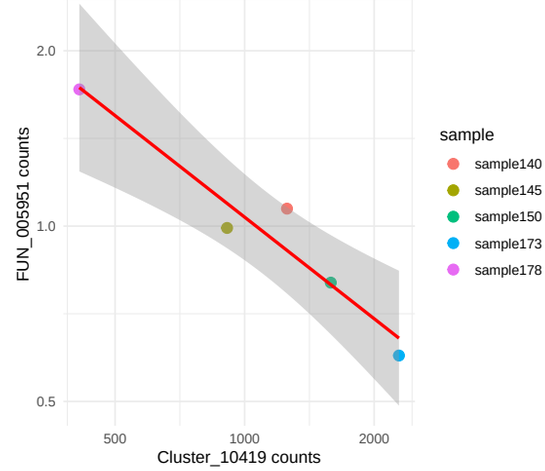
Cluster_10419 vs FUN_005951
Correlation: −0.911 | p−value: 0.0312



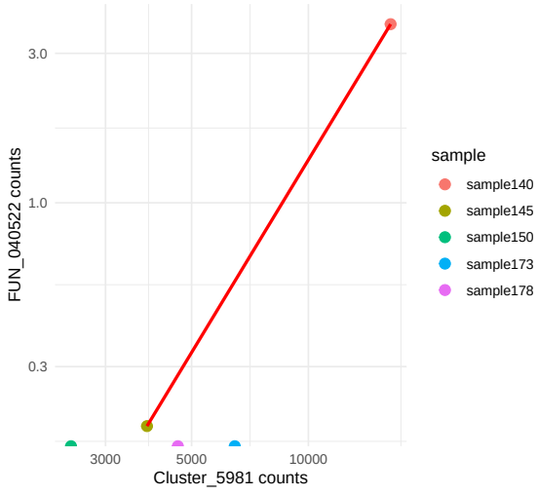
Cluster_5981 vs FUN_040522
Correlation: 0.961 | p−value: 0.00912



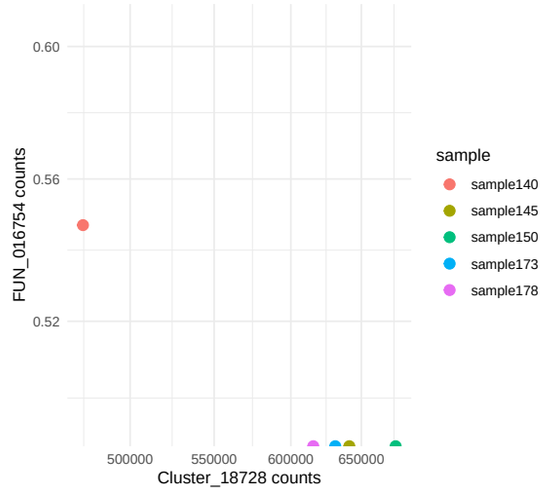
Cluster_18728 vs FUN_016754
Correlation: −0.959 | p−value: 0.01



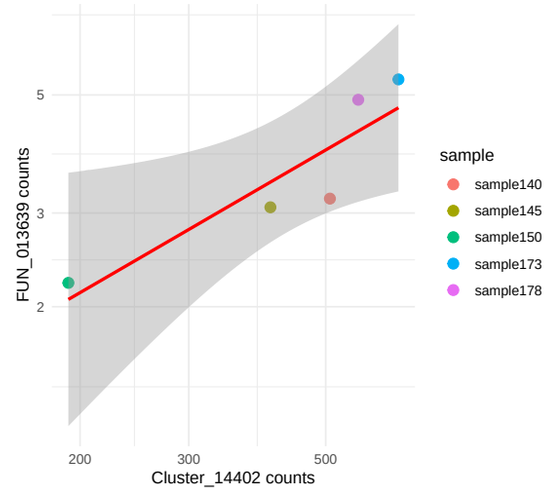
Cluster_14402 vs FUN_013639
Correlation: 0.909 | p−value: 0.0326



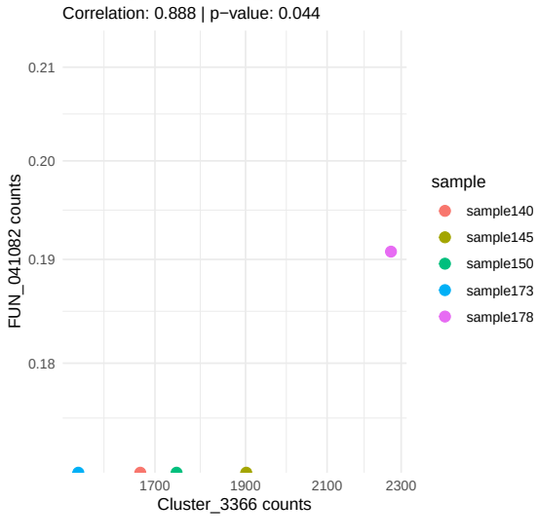
Cluster_3366 vs FUN_041082
Correlation: 0.888 | p−value: 0.044



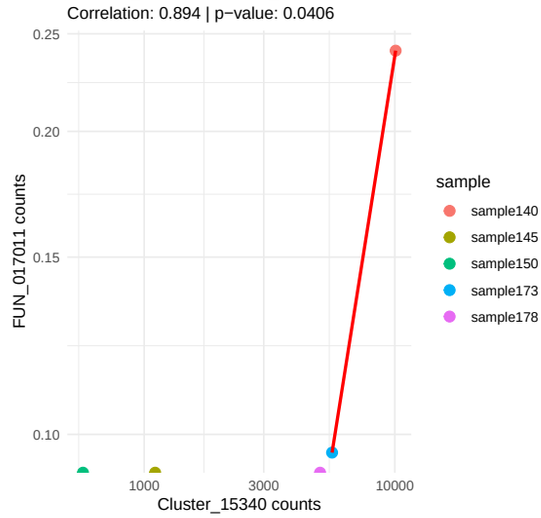
Cluster_15340 vs FUN_017011
Correlation: 0.894 | p−value: 0.0406



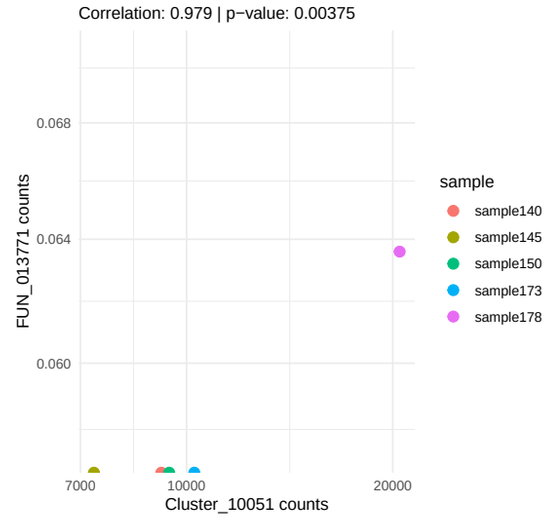
Cluster_10051 vs FUN_013771
Correlation: 0.979 | p−value: 0.00375



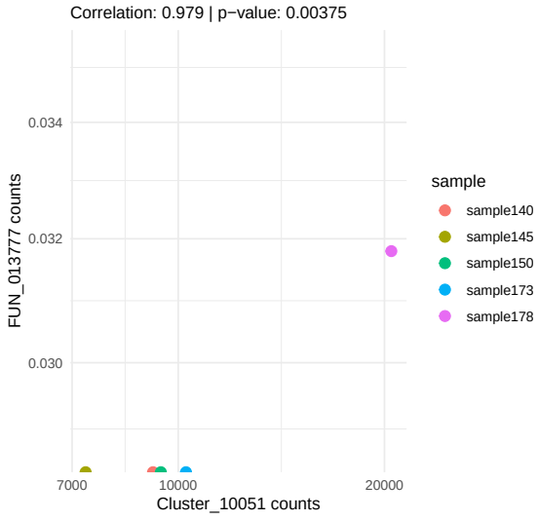
Cluster_10051 vs FUN_013777
Correlation: 0.979 | p−value: 0.00375



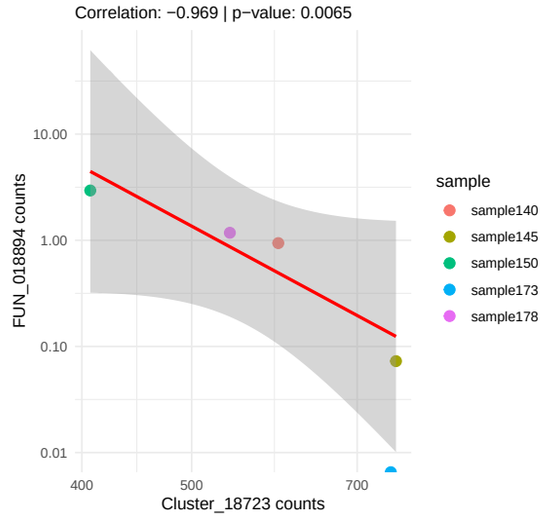
Cluster_18723 vs FUN_018894
Correlation: −0.969 | p−value: 0.0065



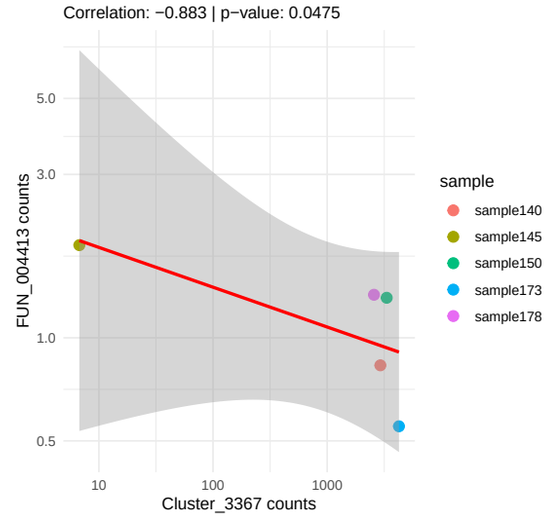
Cluster_3367 vs FUN_004413
Correlation: −0.883 | p−value: 0.0475



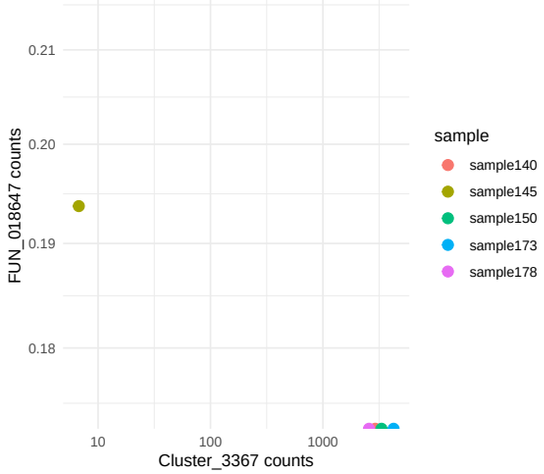
Cluster_3367 vs FUN_018647
Correlation: −0.918 | p−value: 0.0277



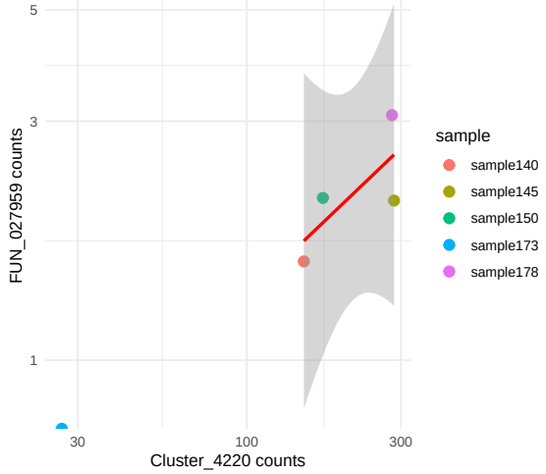
Cluster_4220 vs FUN_027959
Correlation: 0.911 | p−value: 0.0317



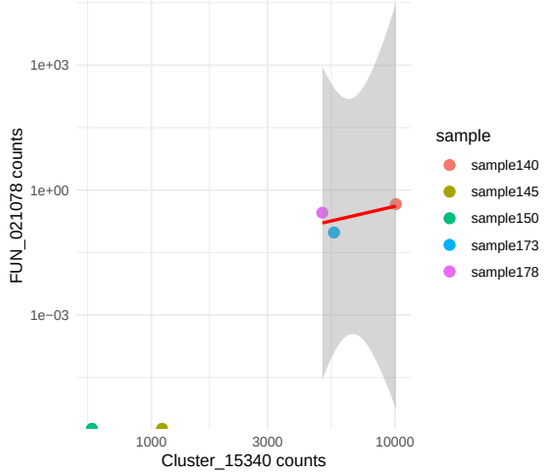
Cluster_15340 vs FUN_021078
Correlation: 0.917 | p−value: 0.0281



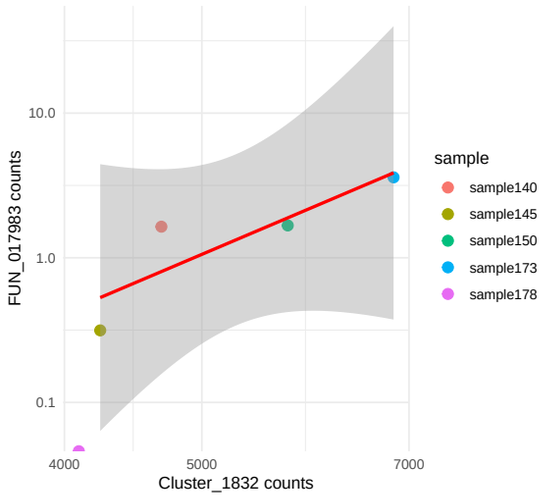
Cluster_1832 vs FUN_017983
Correlation: 0.946 | p−value: 0.015



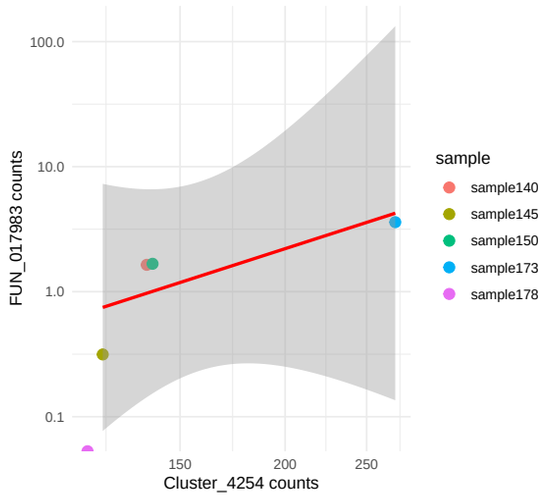
Cluster_4254 vs FUN_017983
Correlation: 0.917 | p−value: 0.0283



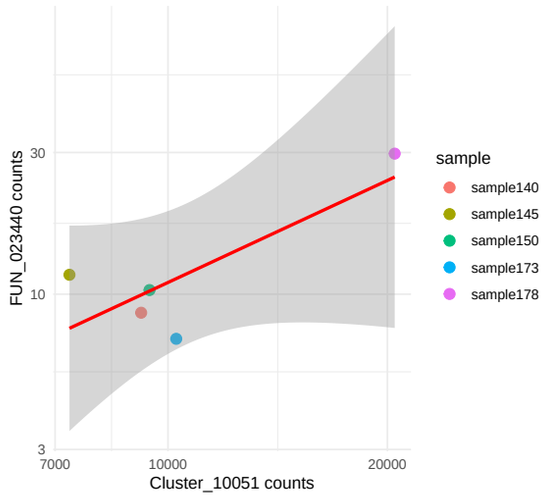
Cluster_10051 vs FUN_023440
Correlation: 0.928 | p−value: 0.0227



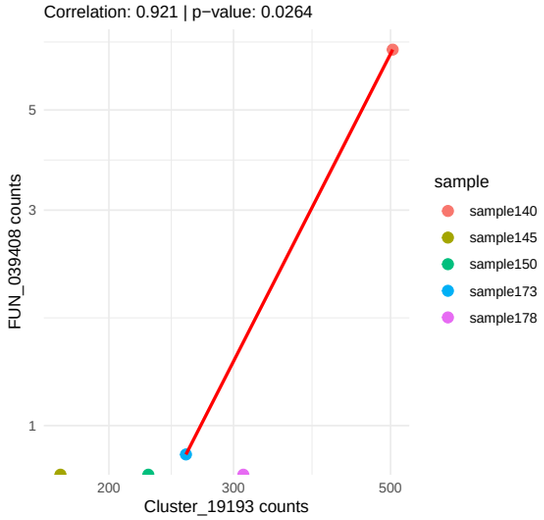
Cluster_19193 vs FUN_039408
Correlation: 0.921 | p−value: 0.0264



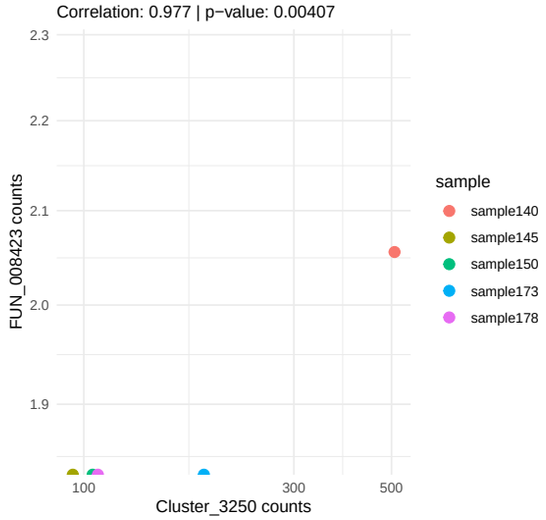
Cluster_3250 vs FUN_008423
Correlation: 0.977 | p−value: 0.00407



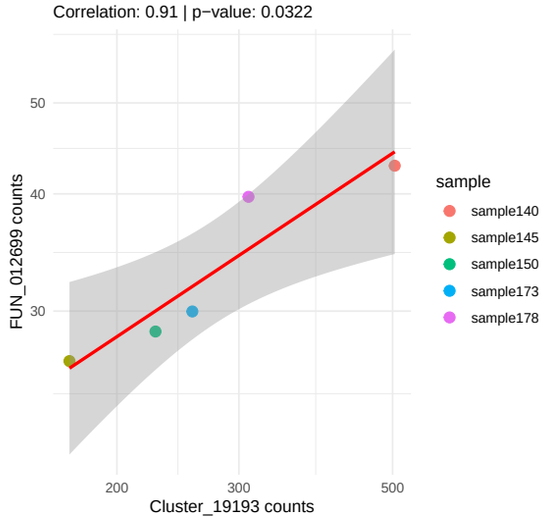
Cluster_19193 vs FUN_012699
Correlation: 0.91 | p−value: 0.0322



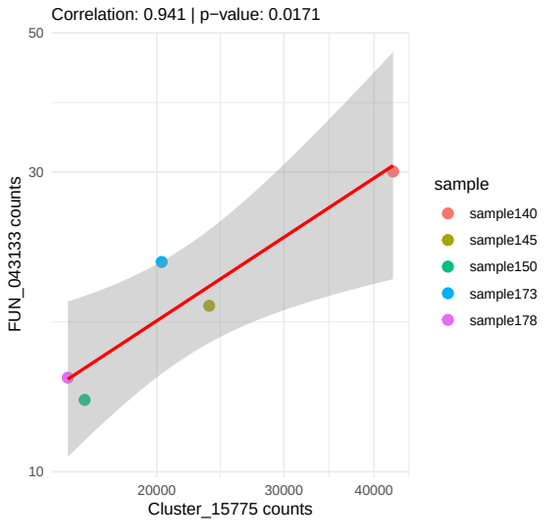
Cluster_15775 vs FUN_043133
Correlation: 0.941 | p−value: 0.0171



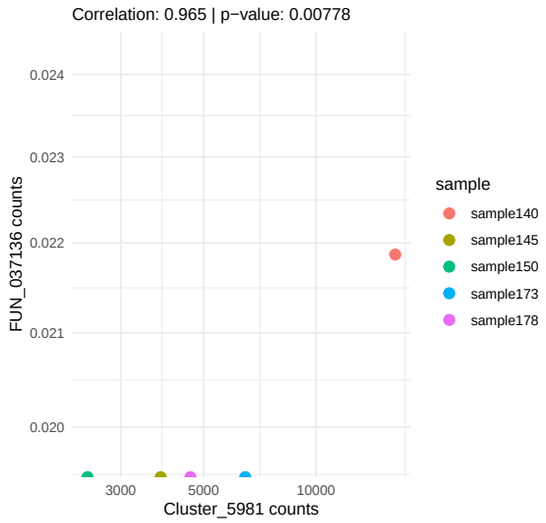
Cluster_5981 vs FUN_037136
Correlation: 0.965 | p−value: 0.00778



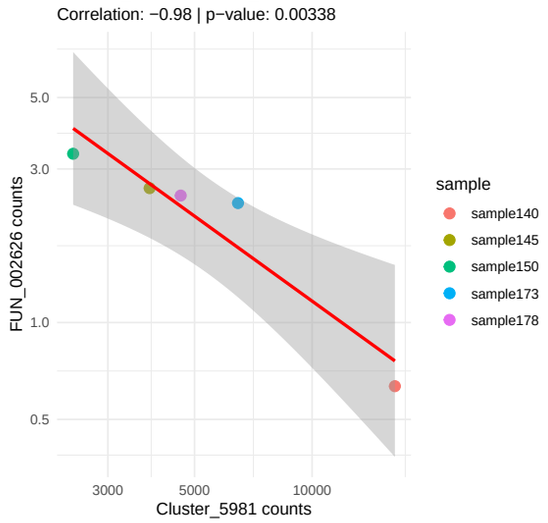
Cluster_5981 vs FUN_002626
Correlation: −0.98 | p−value: 0.00338



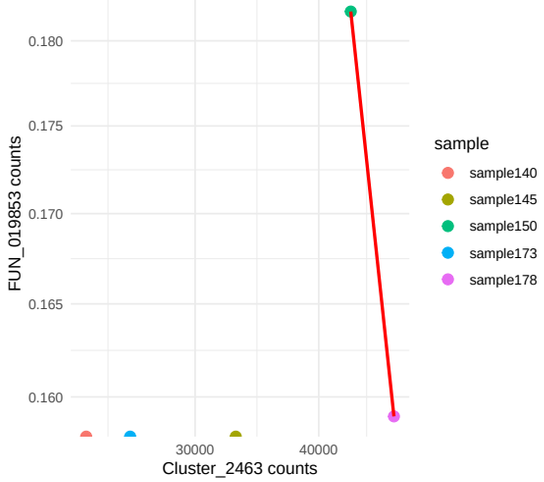
Cluster_2463 vs FUN_019853
Correlation: 0.913 | p−value: 0.0302



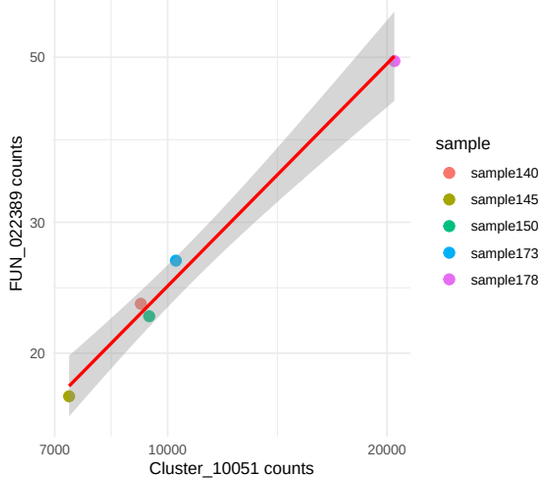
Cluster_10051 vs FUN_022389
Correlation: 0.997 | p−value: 0.000186



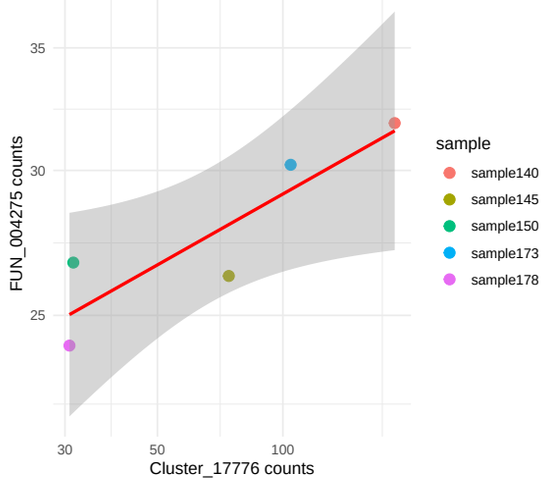
Cluster_17776 vs FUN_004275
Correlation: 0.906 | p−value: 0.0343



Cluster_16409 vs FUN_020726
Correlation: 0.912 | p−value: 0.0307

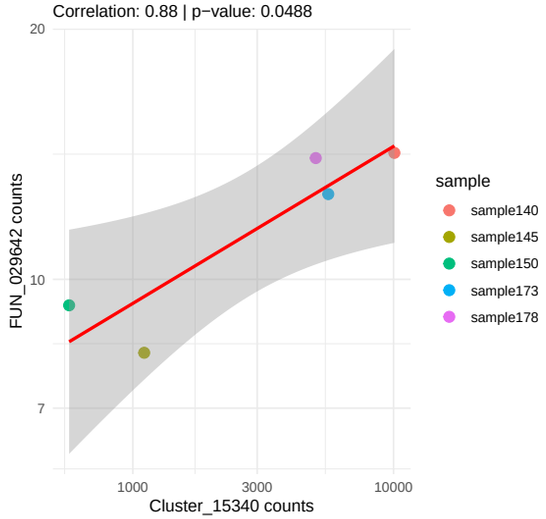


Cluster_15340 vs FUN_029642
Correlation: 0.88 | p−value: 0.0488

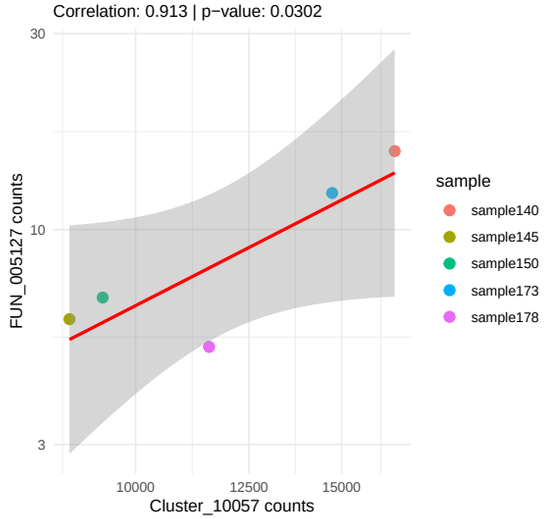


Cluster_10057 vs FUN_005127
Correlation: 0.913 | p−value: 0.0302

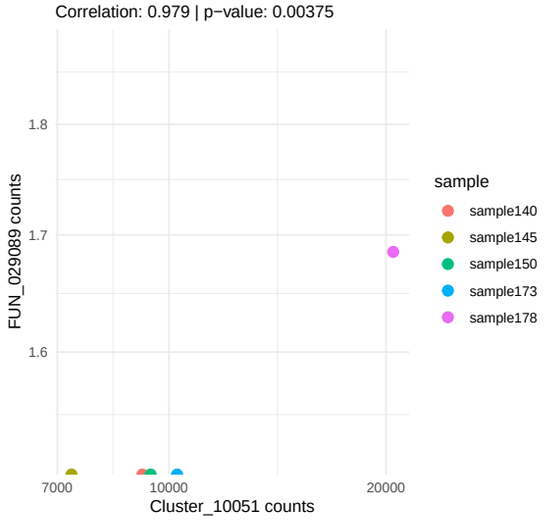
Cluster_10051 vs FUN_029089
Correlation: 0.979 | p−value: 0.00375



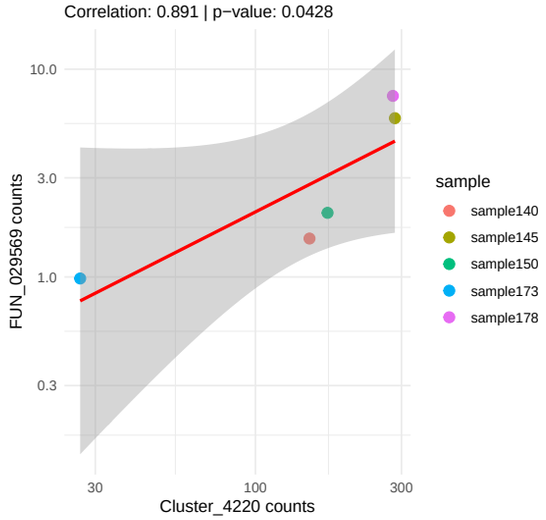
Cluster_4220 vs FUN_029569
Correlation: 0.891 | p−value: 0.0428



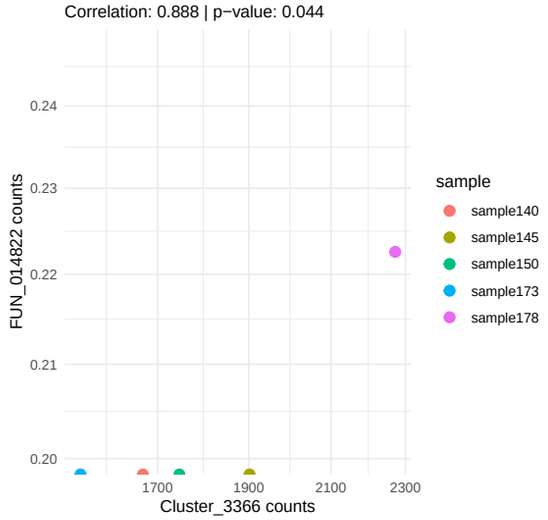
Cluster_3366 vs FUN_014822
Correlation: 0.888 | p−value: 0.044



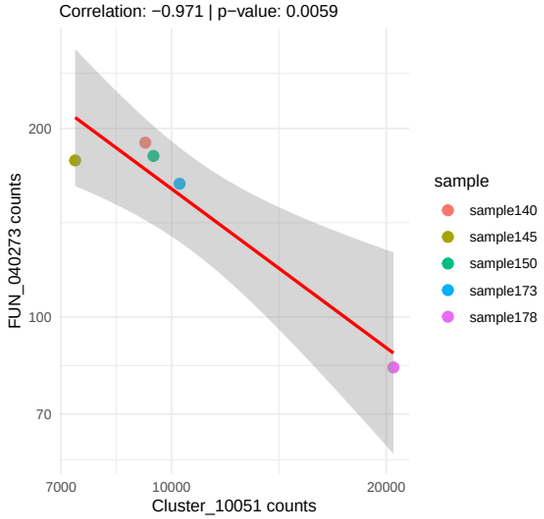
Cluster_10051 vs FUN_040273
Correlation: −0.971 | p−value: 0.0059



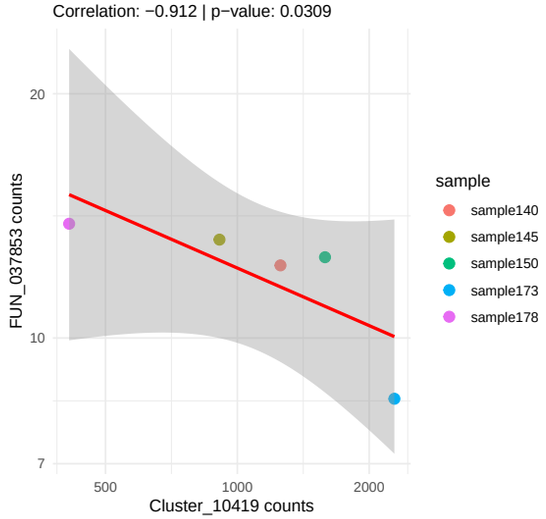
Cluster_10419 vs FUN_037853
Correlation: −0.912 | p−value: 0.0309



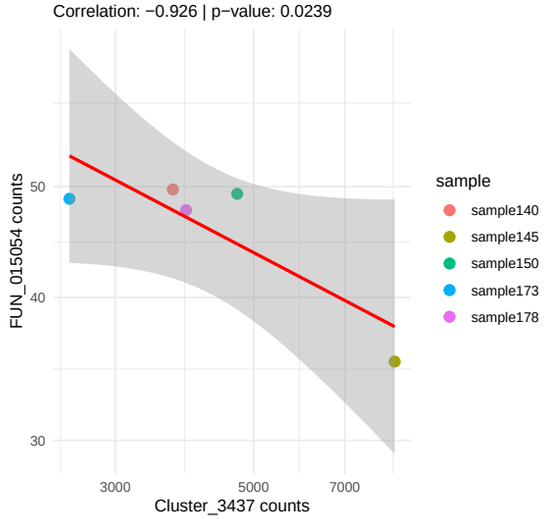
Cluster_3437 vs FUN_015054
Correlation: −0.926 | p−value: 0.0239



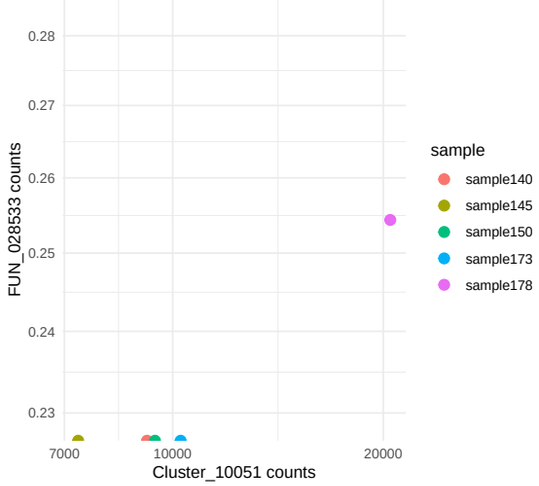
Cluster_10051 vs FUN_028533
Correlation: 0.979 | p−value: 0.00375



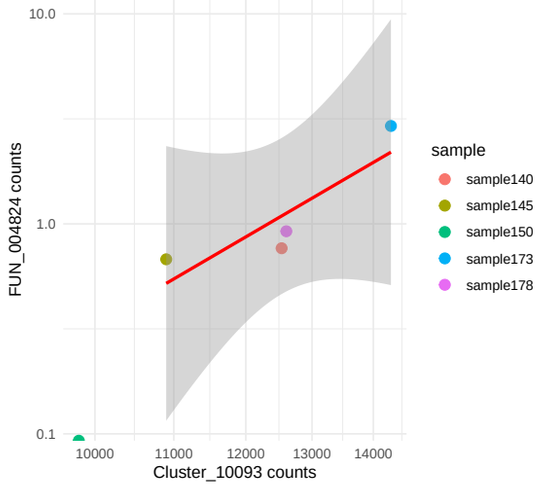
Cluster_10093 vs FUN_004824
Correlation: 0.892 | p−value: 0.0418



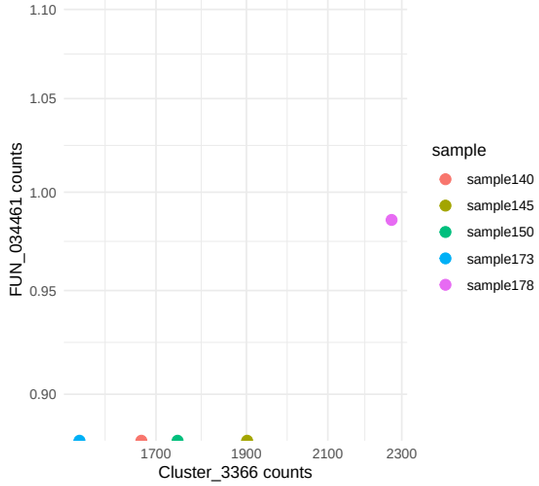
Cluster_3366 vs FUN_034461
Correlation: 0.888 | p−value: 0.044



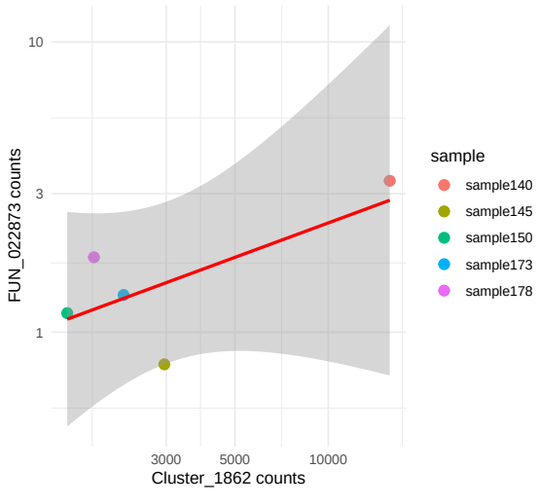
Cluster_1862 vs FUN_022873
Correlation: 0.9 | p−value: 0.0372



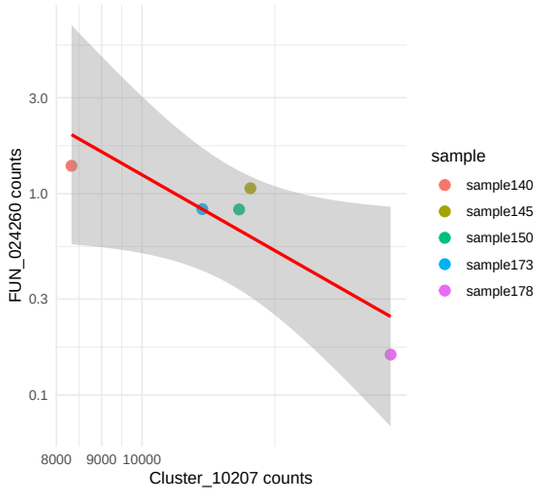
Cluster_10207 vs FUN_024260
Correlation: −0.946 | p−value: 0.0148



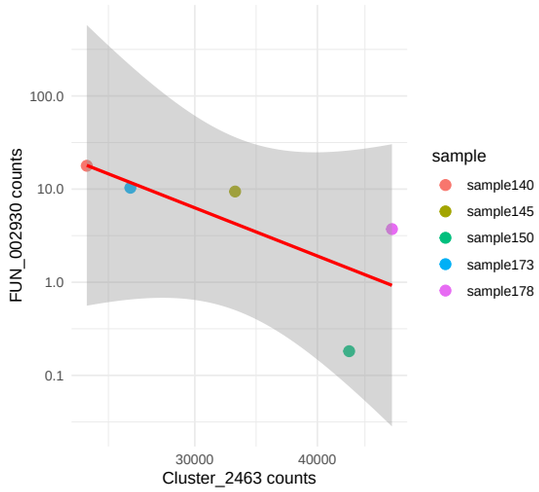
Cluster_2463 vs FUN_002930
Correlation: −0.892 | p−value: 0.0416



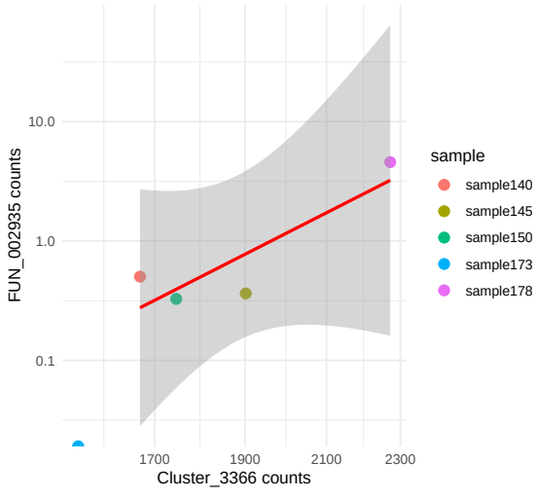
Cluster_3366 vs FUN_002935
Correlation: 0.909 | p−value: 0.0324



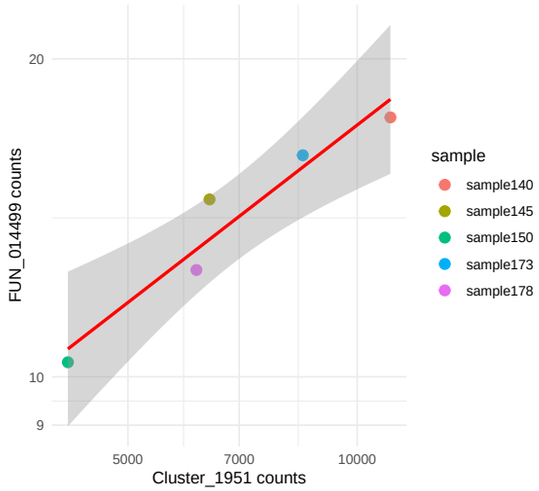
Cluster_1951 vs FUN_014499
Correlation: 0.948 | p−value: 0.0143



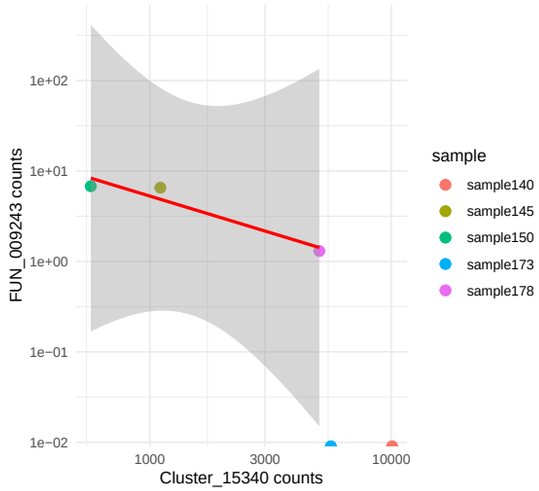
Cluster_15340 vs FUN_009243
Correlation: −0.898 | p−value: 0.0384



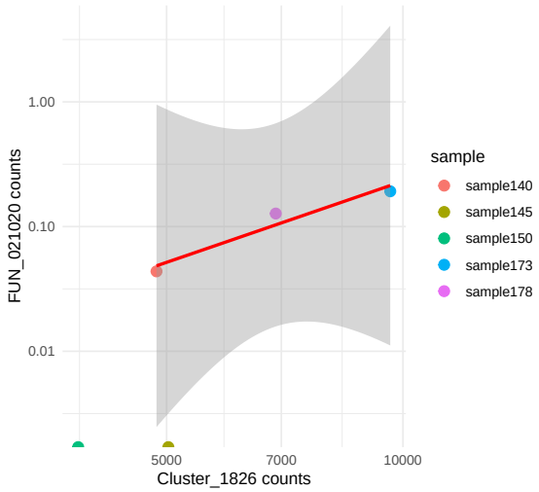
Cluster_1826 vs FUN_021020
Correlation: 0.961 | p−value: 0.00934



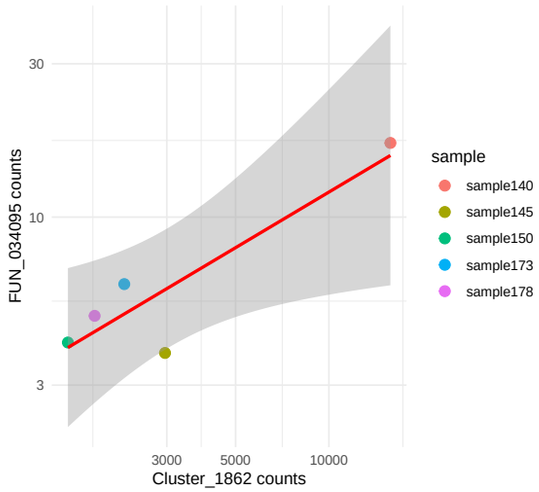
Cluster_1862 vs FUN_034095
Correlation: 0.979 | p−value: 0.0036



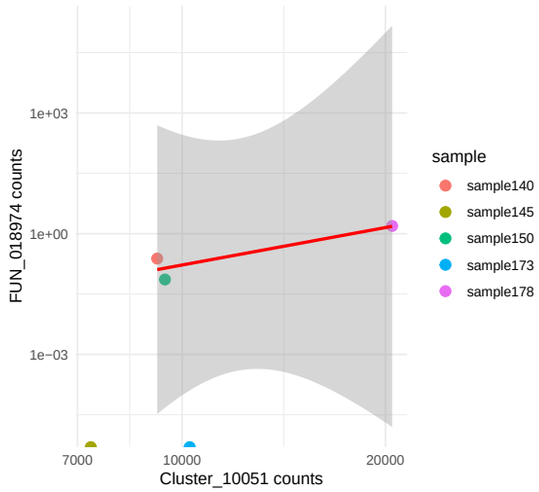
Cluster_10051 vs FUN_018974
Correlation: 0.972 | p−value: 0.00552



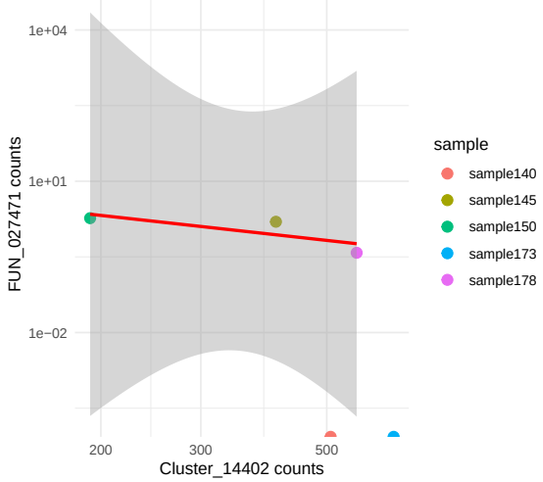
Cluster_14402 vs FUN_027471
Correlation: −0.89 | p−value: 0.0433



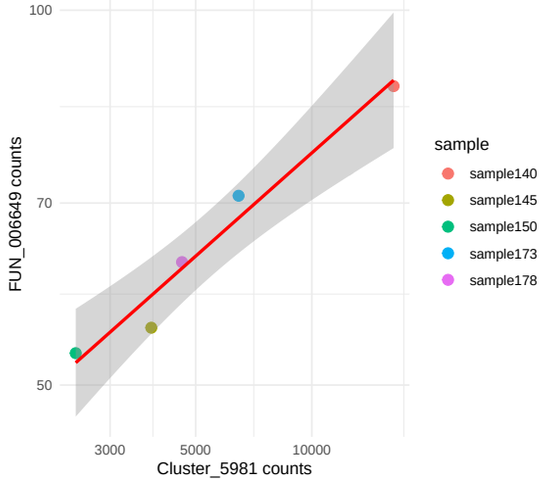
Cluster_5981 vs FUN_006649
Correlation: 0.96 | p−value: 0.00937



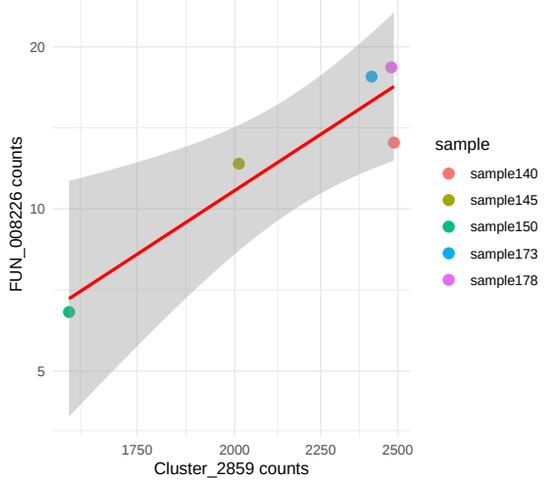
Cluster_2859 vs FUN_008226
Correlation: 0.895 | p−value: 0.0402



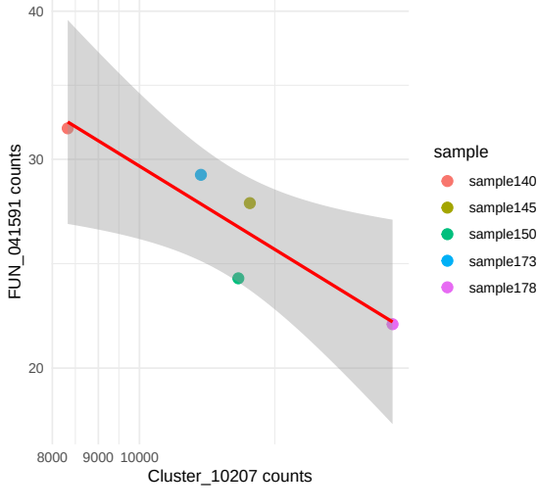
Cluster_10207 vs FUN_041591
Correlation: −0.898 | p−value: 0.0388



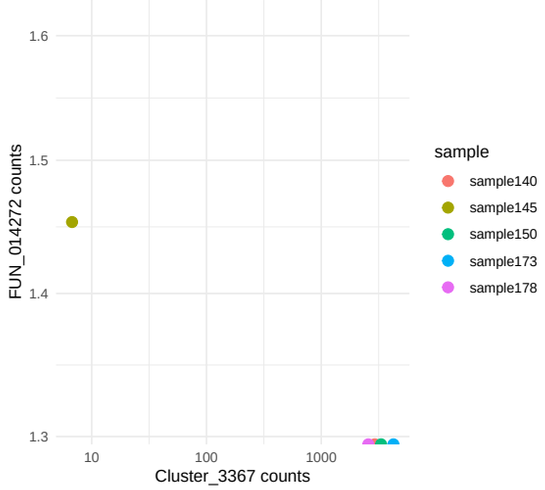
Cluster_3367 vs FUN_014272
Correlation: −0.918 | p−value: 0.0277



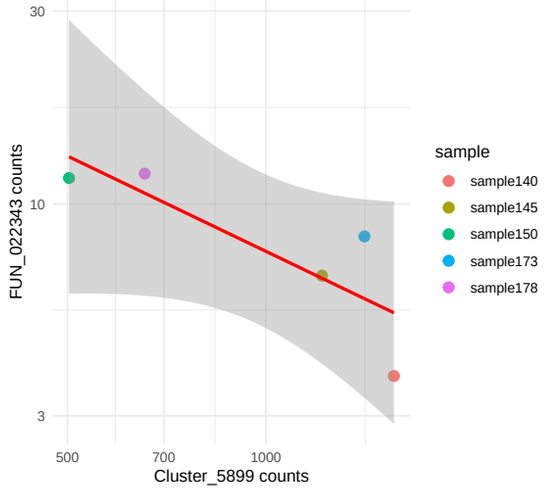
Cluster_5899 vs FUN_022343
Correlation: −0.91 | p−value: 0.032



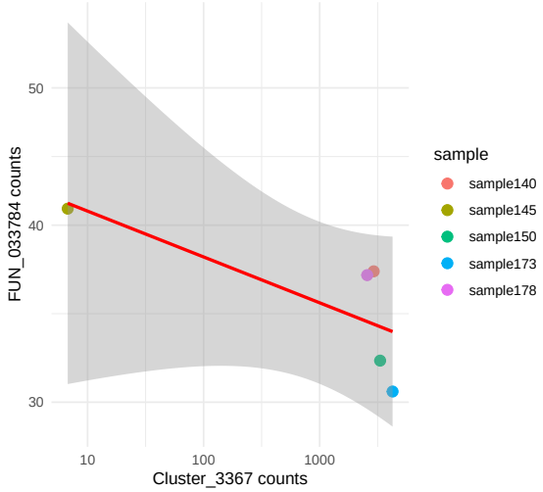
Cluster_3367 vs FUN_033784
Correlation: −0.916 | p−value: 0.0287



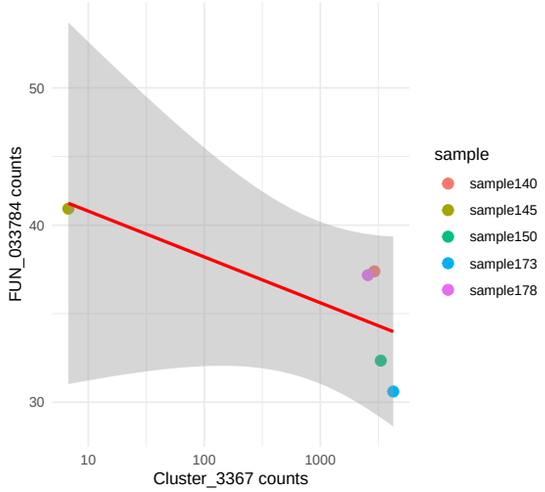
Cluster_3367 vs FUN_033784
Correlation: −0.916 | p−value: 0.0287



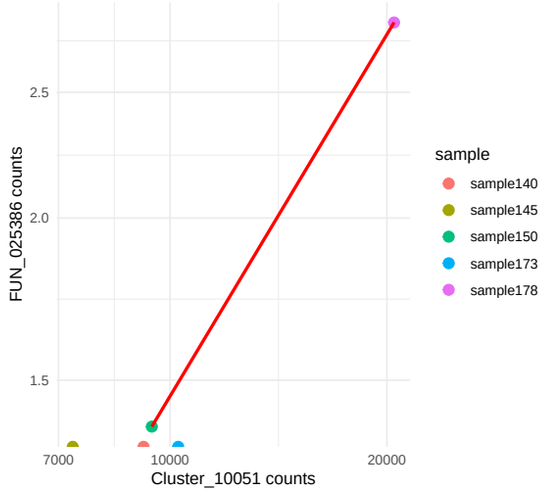
Cluster_10051 vs FUN_025386
Correlation: 0.882 | p−value: 0.048



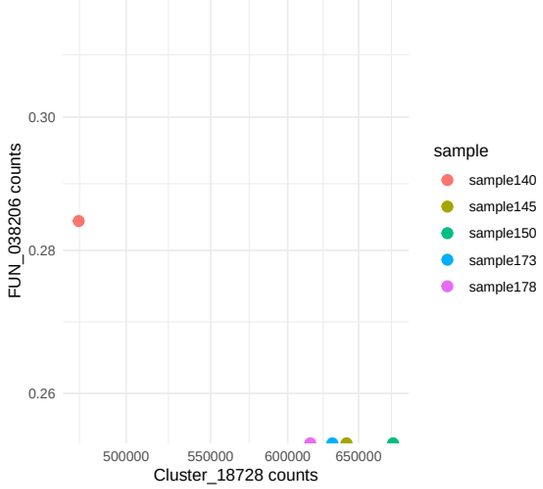
Cluster_18728 vs FUN_038206
Correlation: −0.959 | p−value: 0.01



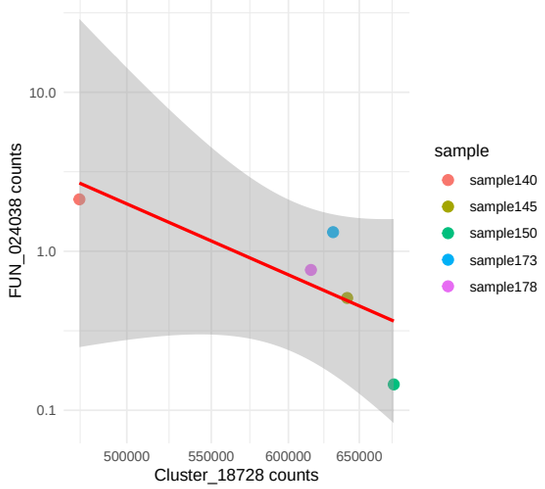
Cluster_18728 vs FUN_024038
Correlation: −0.911 | p−value: 0.0314



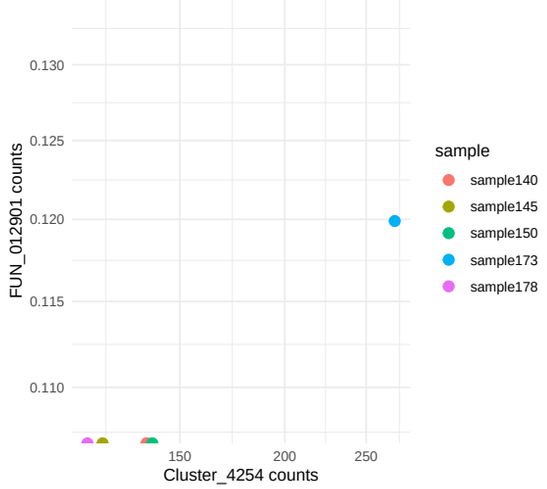
Cluster_4254 vs FUN_012901
Correlation: 0.988 | p−value: 0.0015



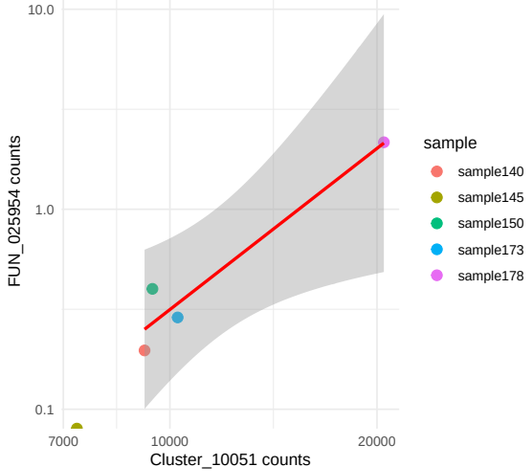
Cluster_10051 vs FUN_025954
Correlation: 0.994 | p−value: 0.000608



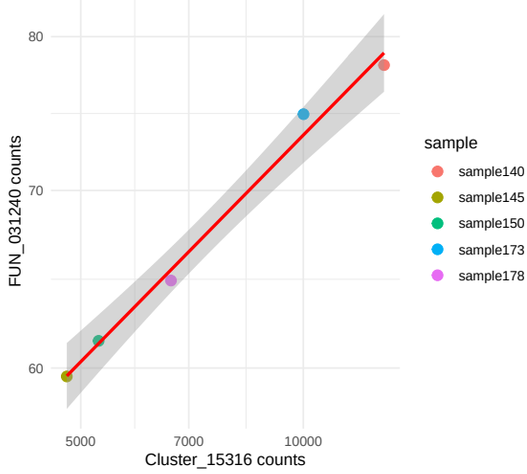
Cluster_15316 vs FUN_031240
Correlation: 0.987 | p−value: 0.00175



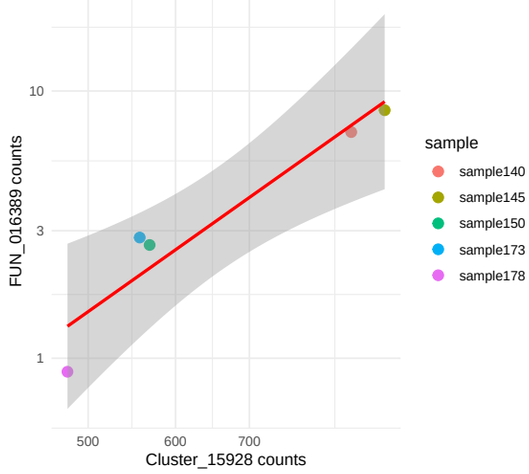
Cluster_15928 vs FUN_016389
Correlation: 0.995 | p−value: 0.000363



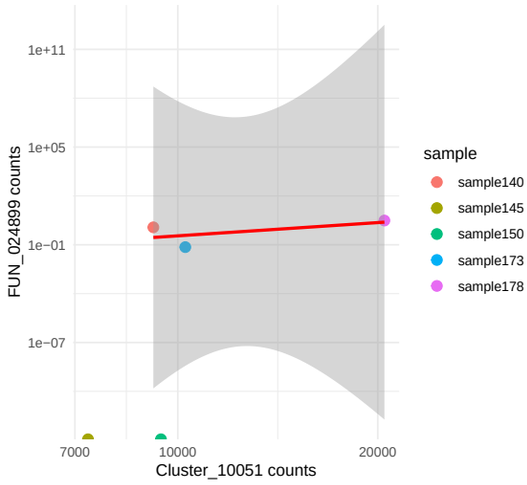
Cluster_10051 vs FUN_024899
Correlation: 0.916 | p−value: 0.0289



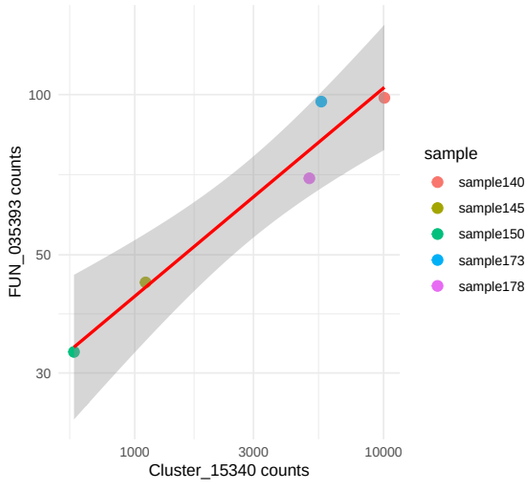
Cluster_15340 vs FUN_035393
Correlation: 0.915 | p−value: 0.0292



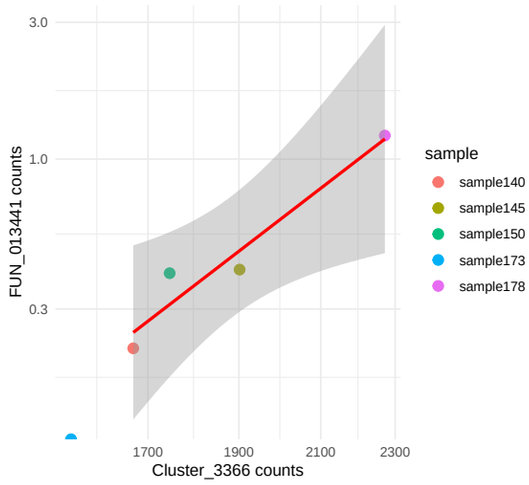
Cluster_3366 vs FUN_013441
Correlation: 0.979 | p−value: 0.00352



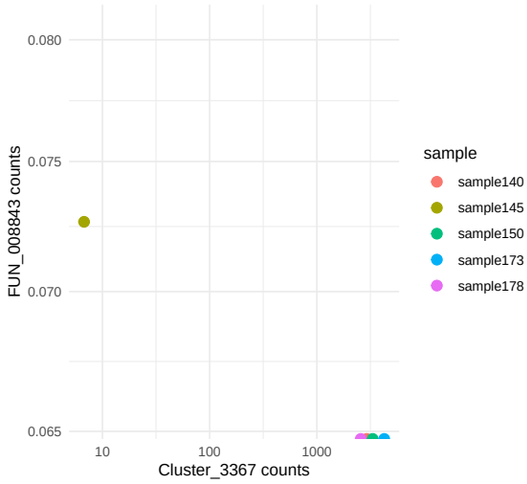
Cluster_3367 vs FUN_008843
Correlation: −0.918 | p−value: 0.0277



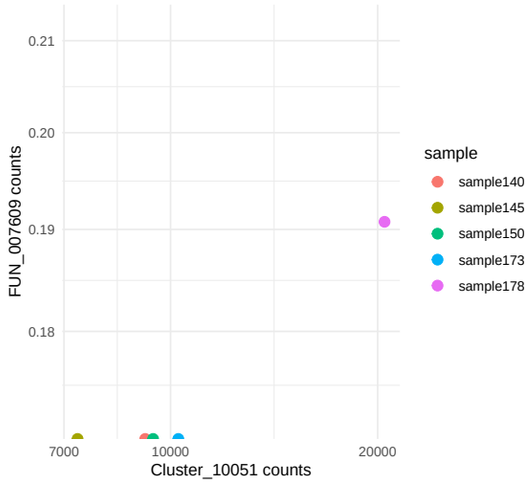
Cluster_10051 vs FUN_007609
Correlation: 0.979 | p−value: 0.00375



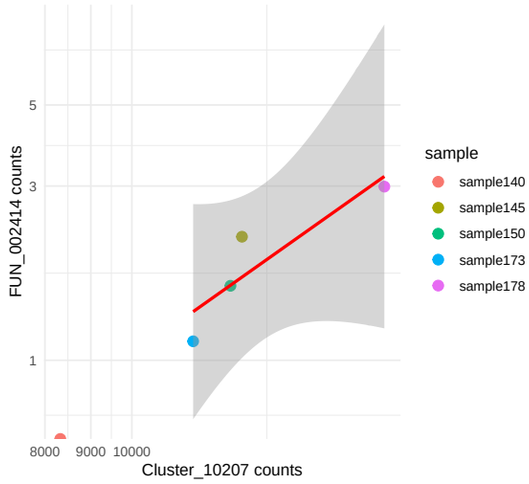
Cluster_10207 vs FUN_002414
Correlation: 0.955 | p−value: 0.0116



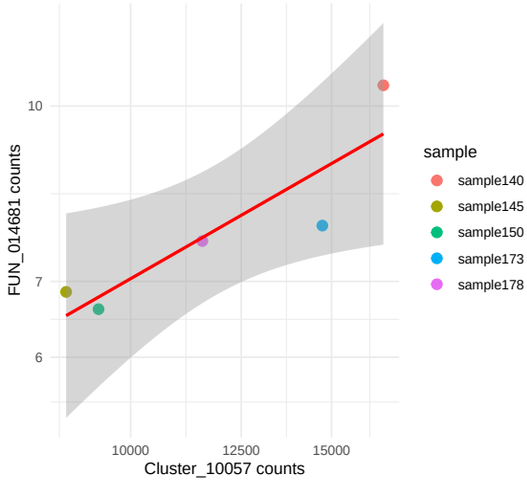
Cluster_10057 vs FUN_014681
Correlation: 0.896 | p−value: 0.0397



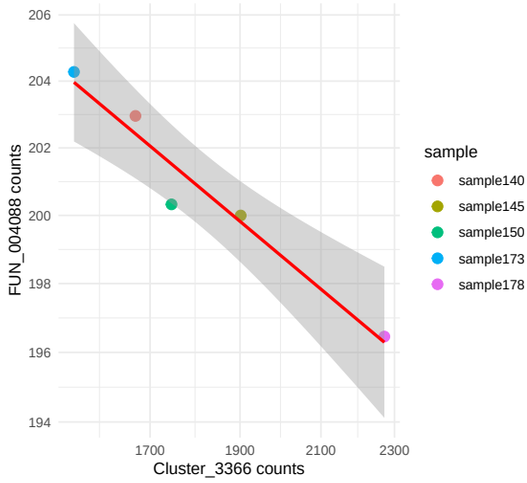
Cluster_3366 vs FUN_004088
Correlation: −0.966 | p−value: 0.00738



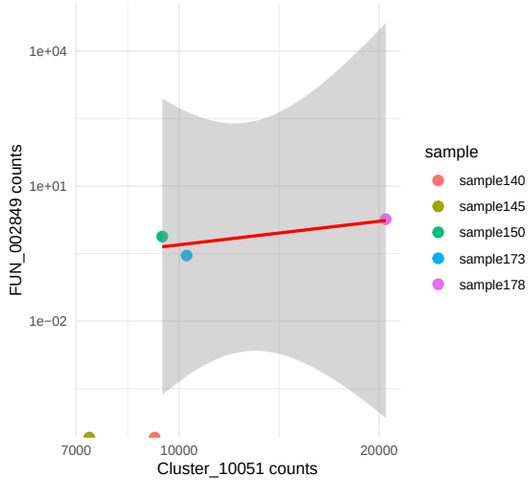
Cluster_10051 vs FUN_002849
Correlation: 0.935 | p−value: 0.0197



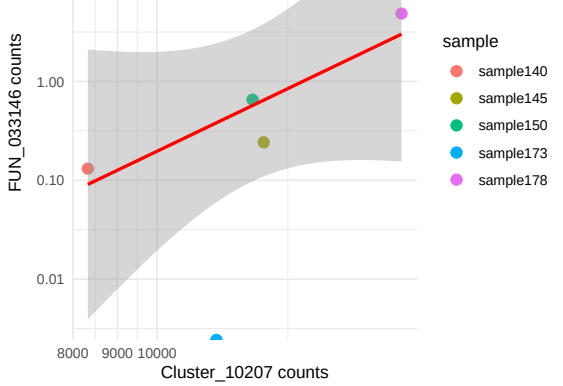
Cluster_10207 vs FUN_033146
Correlation: 0.888 | p−value: 0.0443



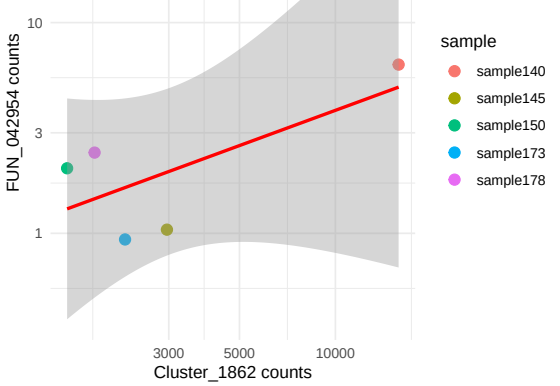
Cluster_1862 vs FUN_042954
Correlation: 0.933 | p−value: 0.0206



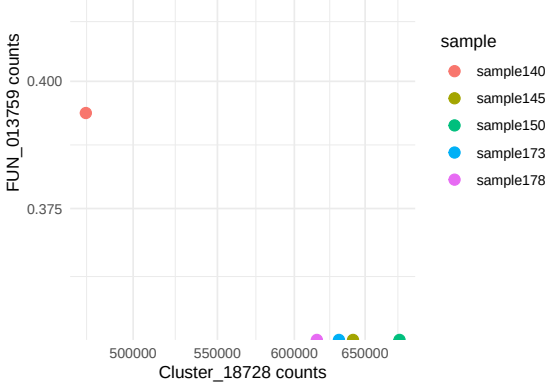
Cluster_18728 vs FUN_013759
Correlation: −0.959 | p−value: 0.01



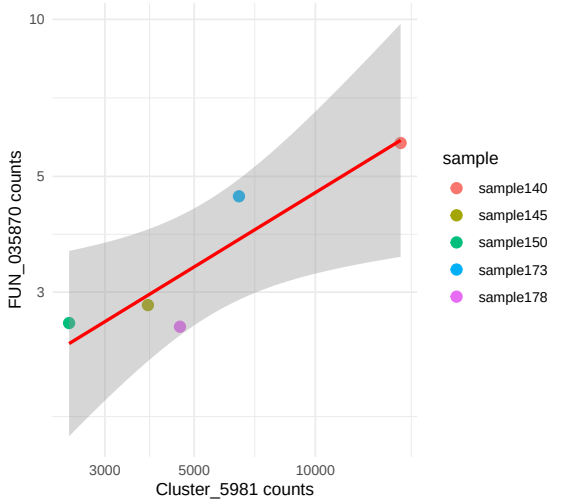
Cluster_5981 vs FUN_035870
Correlation: 0.916 | p−value: 0.0288



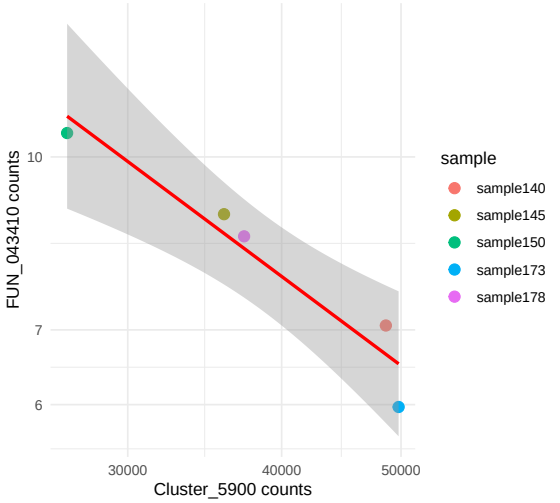
Cluster_5900 vs FUN_043410
Correlation: −0.983 | p−value: 0.00265



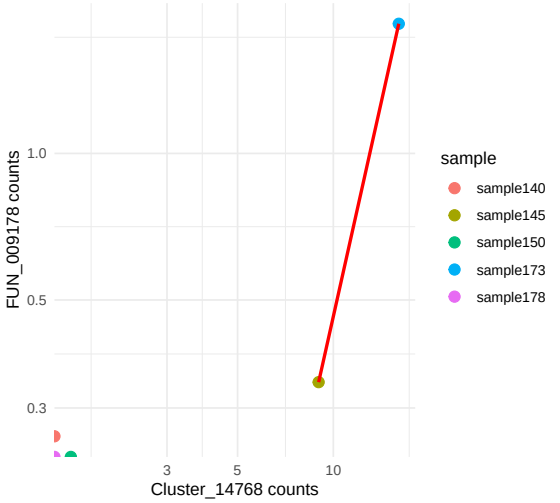
Cluster_14768 vs FUN_009178
Correlation: 0.9 | p−value: 0.0372



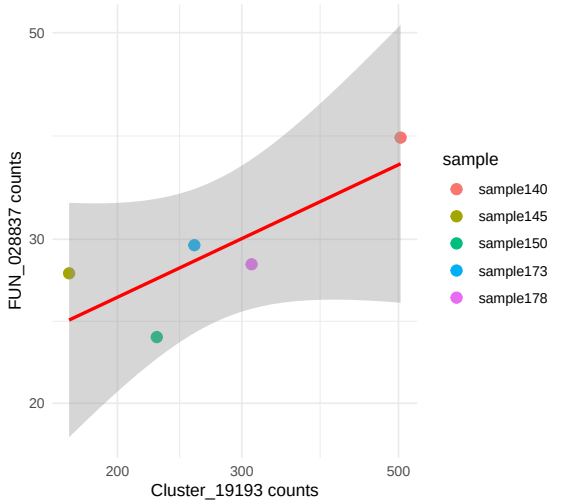
Cluster_19193 vs FUN_028837
Correlation: 0.887 | p−value: 0.0448



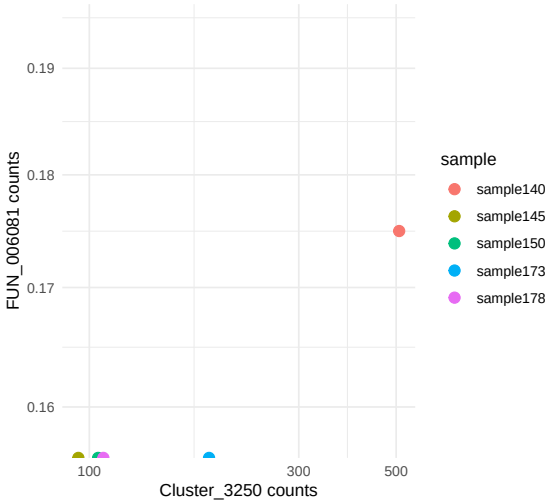
Cluster_3250 vs FUN_006081
Correlation: 0.977 | p−value: 0.00407



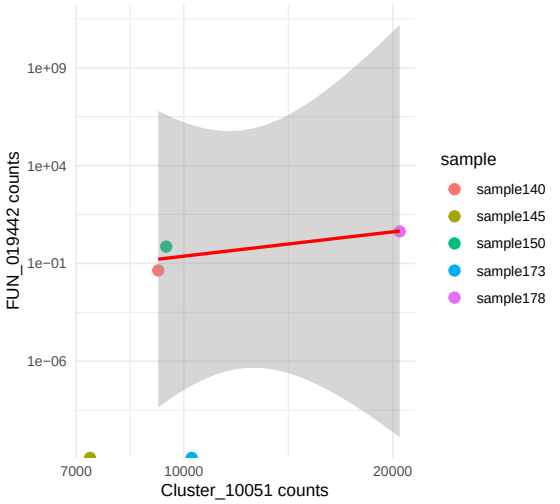
Cluster_10051 vs FUN_019442
Correlation: 0.972 | p−value: 0.00548



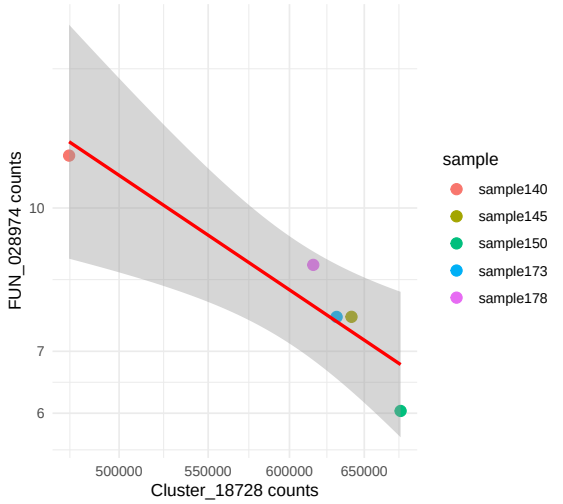
Cluster_18728 vs FUN_028974
Correlation: −0.976 | p−value: 0.00438



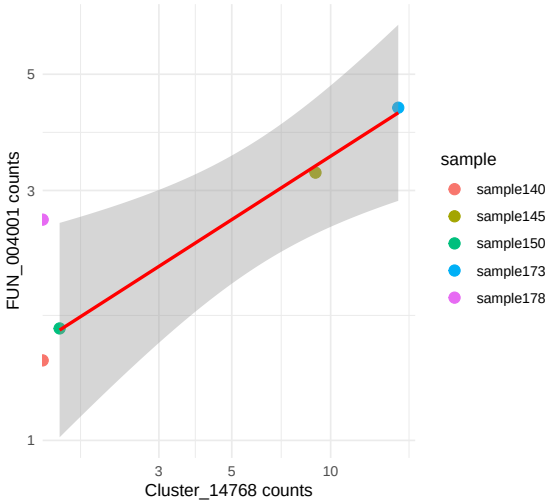
Cluster_14768 vs FUN_004001
Correlation: 0.907 | p−value: 0.0334



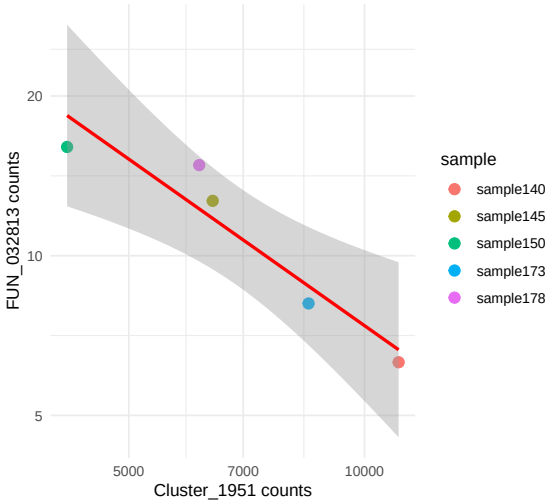
Cluster_1951 vs FUN_032813
Correlation: −0.963 | p−value: 0.00866



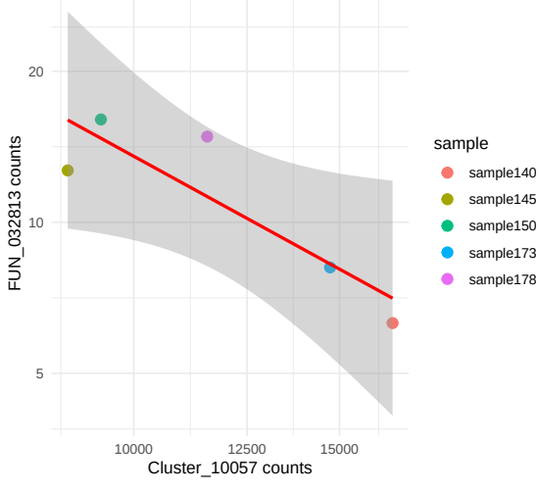
Cluster_10057 vs FUN_032813
Correlation: −0.882 | p−value: 0.0478



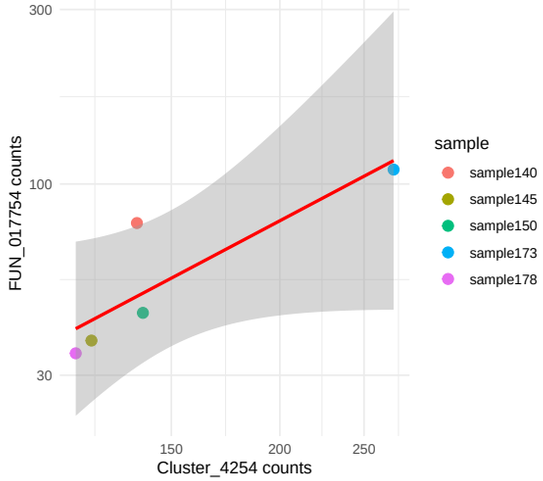
Cluster_4254 vs FUN_017754
Correlation: 0.887 | p−value: 0.0449



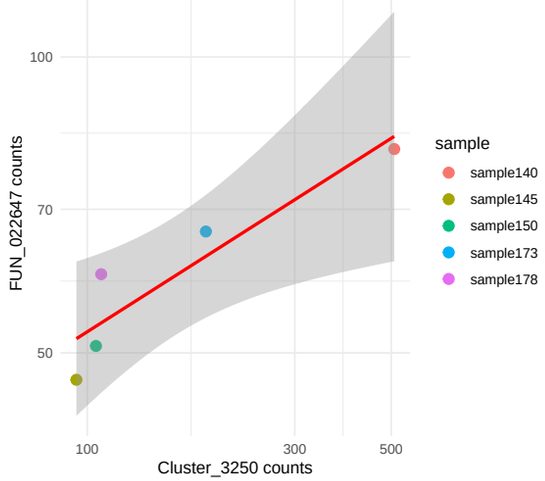
Cluster_3250 vs FUN_022647
Correlation: 0.903 | p−value: 0.0355



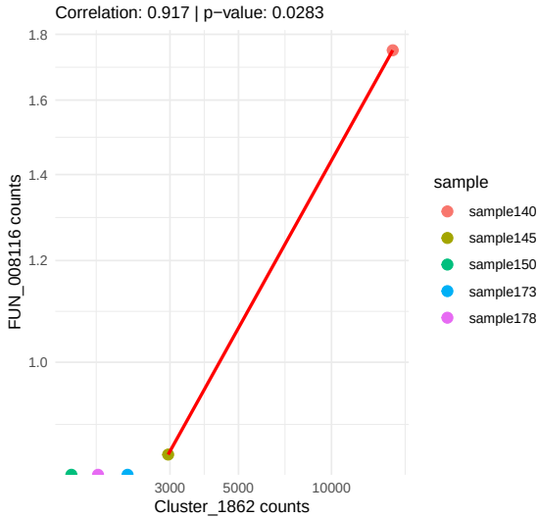
Cluster_1862 vs FUN_008116
Correlation: 0.917 | p−value: 0.0283



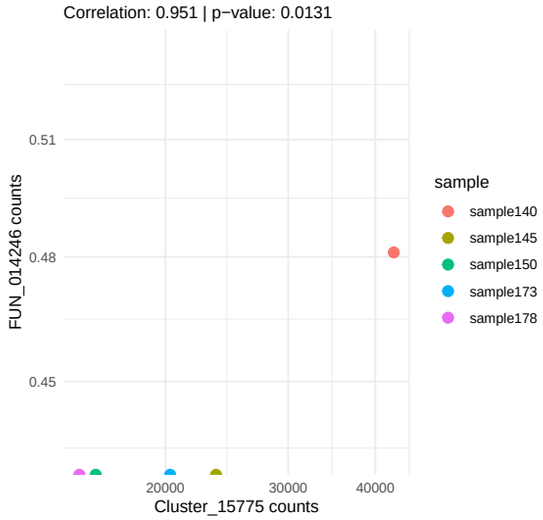
Cluster_15775 vs FUN_014246
Correlation: 0.951 | p−value: 0.0131



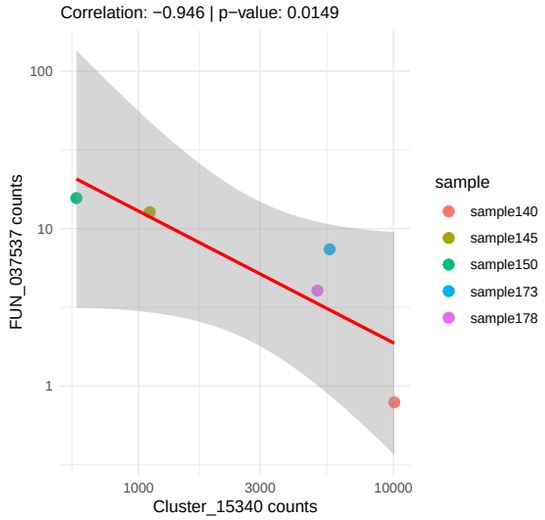
Cluster_15340 vs FUN_037537
Correlation: −0.946 | p−value: 0.0149



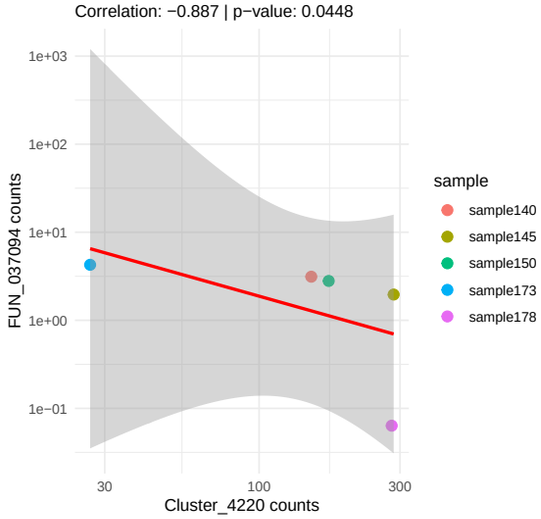
Cluster_4220 vs FUN_037094
Correlation: −0.887 | p−value: 0.0448



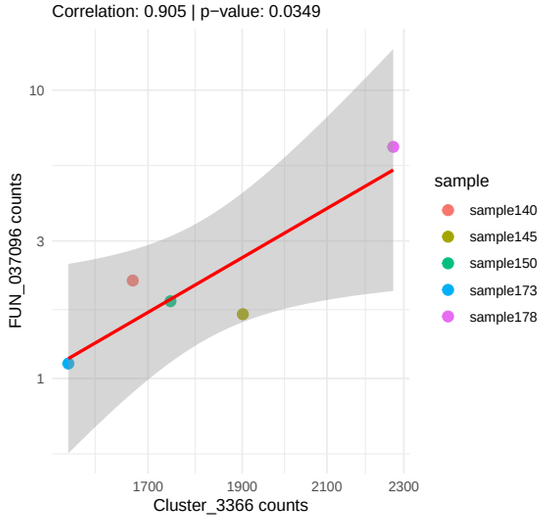
Cluster_3366 vs FUN_037096
Correlation: 0.905 | p−value: 0.0349



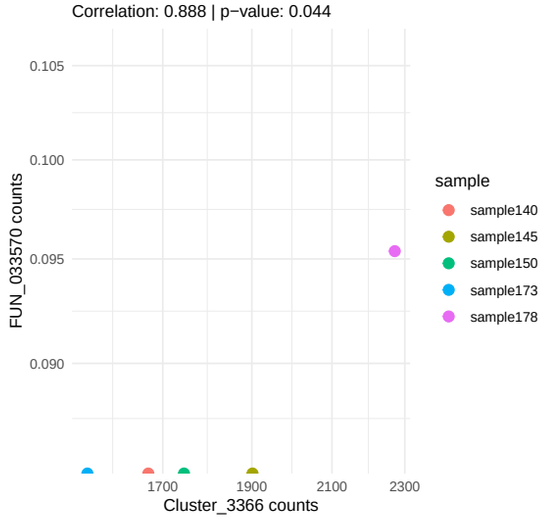
Cluster_3366 vs FUN_033570
Correlation: 0.888 | p−value: 0.044



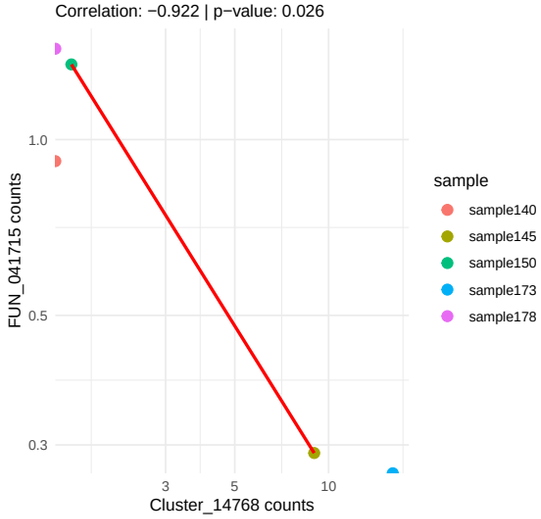
Cluster_14768 vs FUN_041715
Correlation: −0.922 | p−value: 0.026



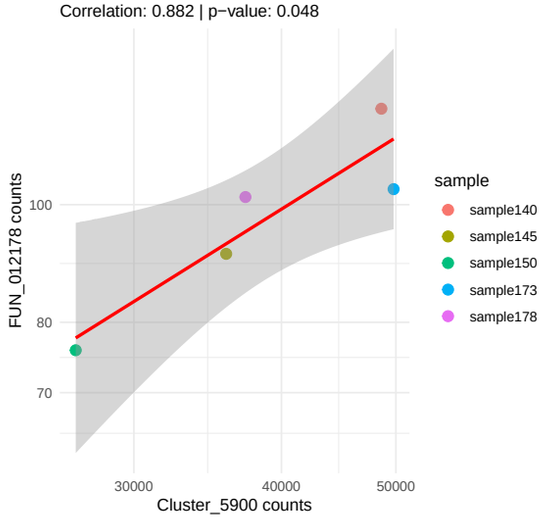
Cluster_5900 vs FUN_012178
Correlation: 0.882 | p−value: 0.048



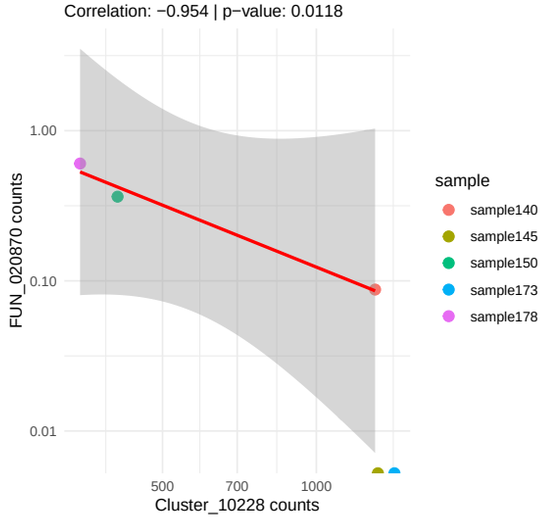
Cluster_10228 vs FUN_020870
Correlation: −0.954 | p−value: 0.0118



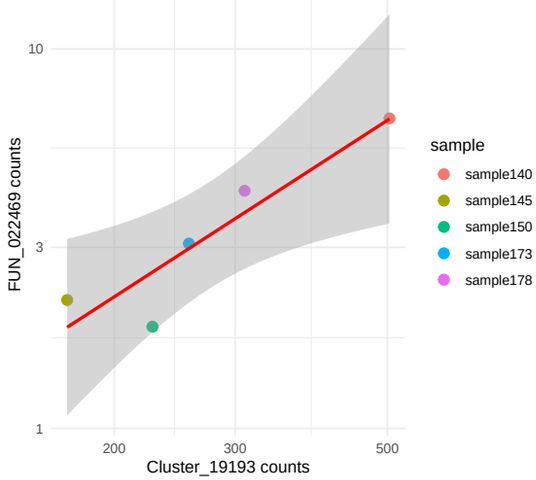
Cluster_19193 vs FUN_022469
Correlation: 0.968 | p−value: 0.00676



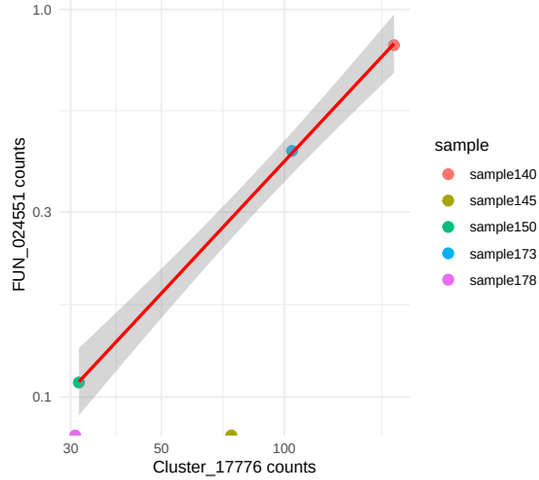
Cluster_17776 vs FUN_024551
Correlation: 0.933 | p−value: 0.0207



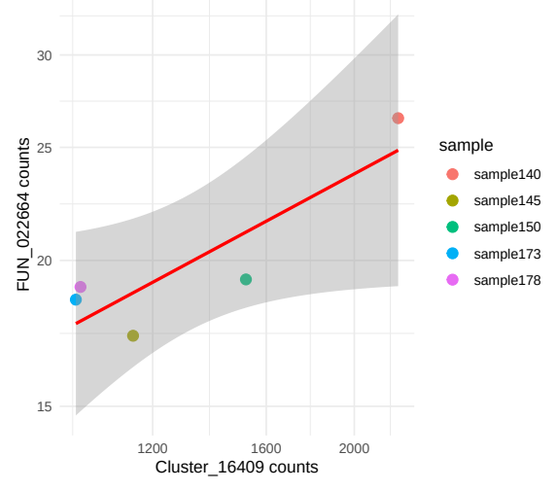
Cluster_16409 vs FUN_022664
Correlation: 0.92 | p−value: 0.0268



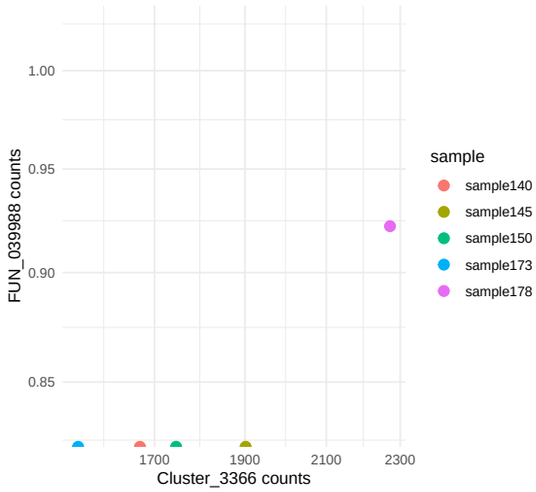
Cluster_3366 vs FUN_039988
Correlation: 0.888 | p−value: 0.044



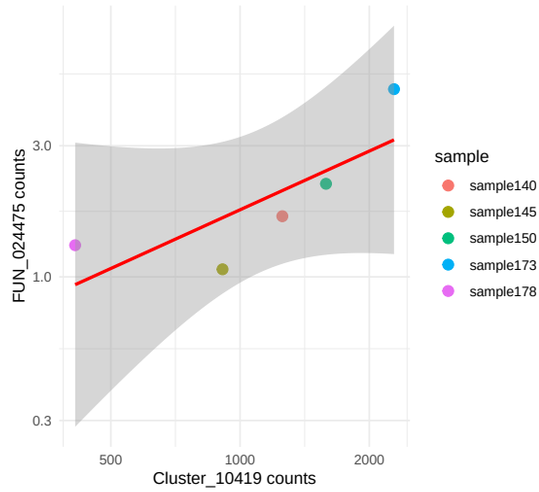
Cluster_10419 vs FUN_024475
Correlation: 0.894 | p−value: 0.0408



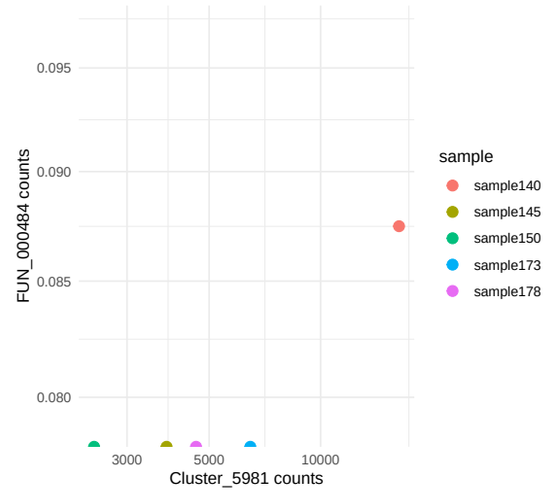
Cluster_5981 vs FUN_000484
Correlation: 0.965 | p−value: 0.00778



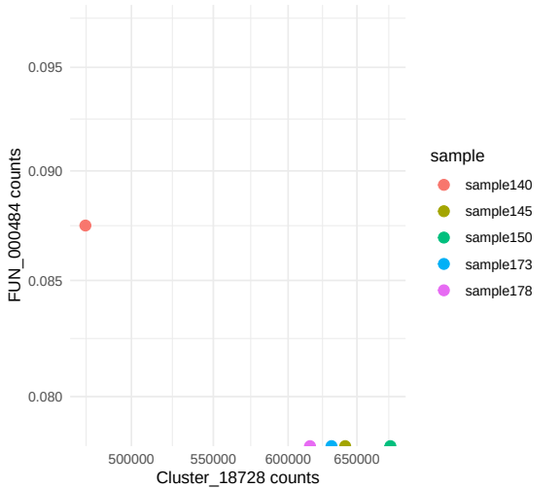
Cluster_18728 vs FUN_000484
Correlation: −0.959 | p−value: 0.01



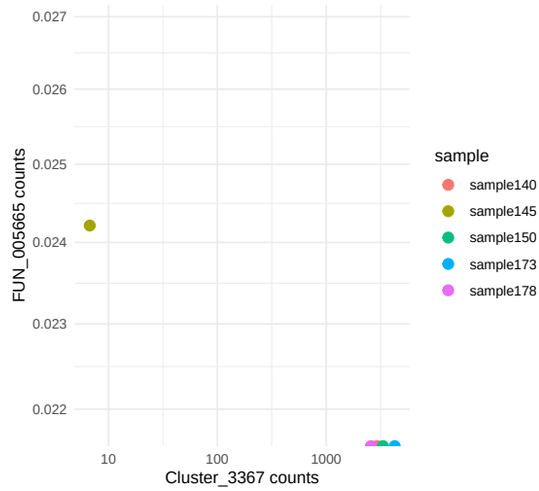
Cluster_3367 vs FUN_005665
Correlation: −0.918 | p−value: 0.0277



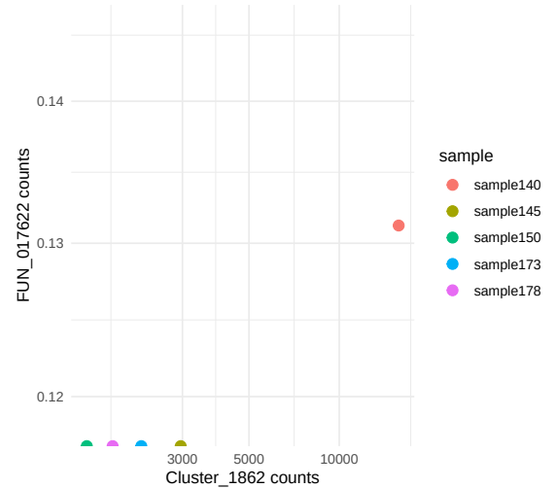
Cluster_1862 vs FUN_017622
Correlation: 0.996 | p−value: 0.000339



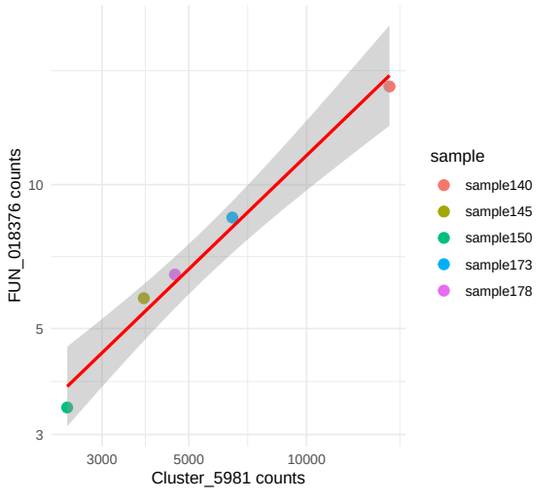
Cluster_5981 vs FUN_018376
Correlation: 0.992 | p−value: 0.000939



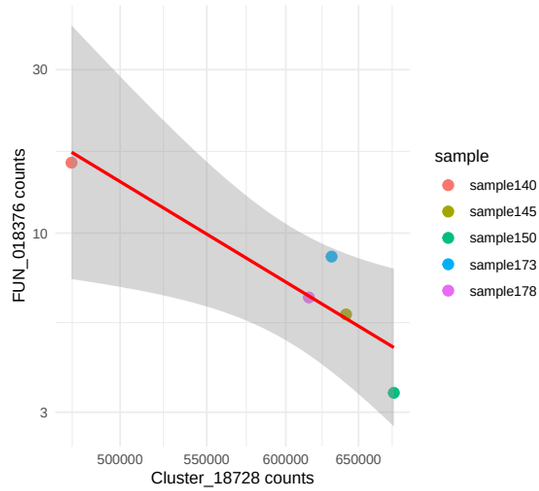
Cluster_18728 vs FUN_018376
Correlation: −0.972 | p−value: 0.00557



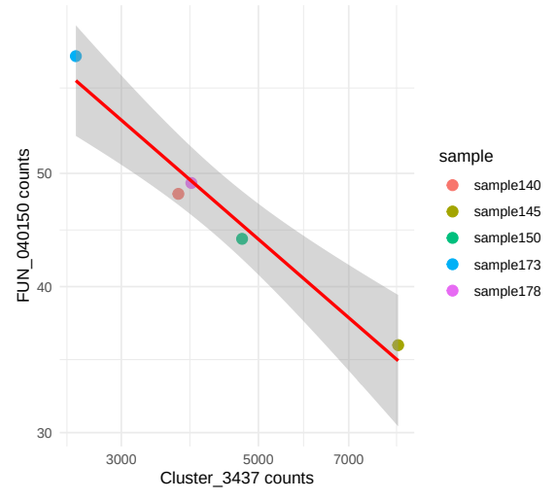
Cluster_3437 vs FUN_040150
Correlation: −0.89 | p−value: 0.0432



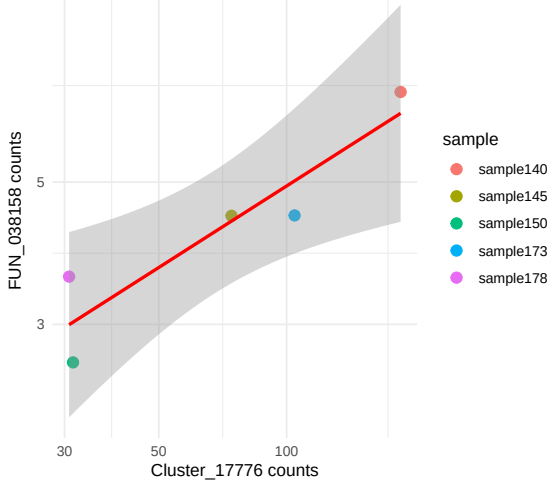
Cluster_17776 vs FUN_038158
Correlation: 0.963 | p−value: 0.00847



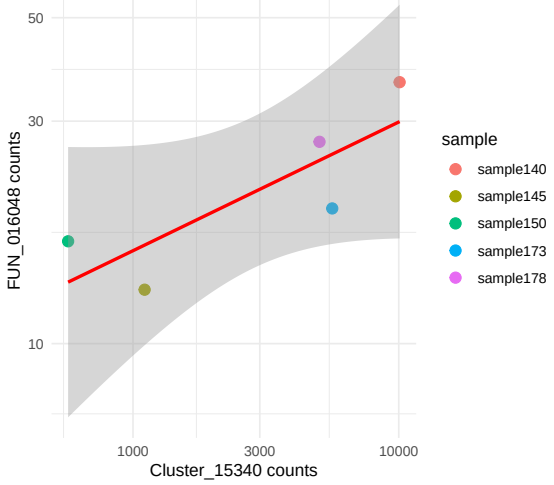
Cluster_15340 vs FUN_016048
Correlation: 0.917 | p−value: 0.0286



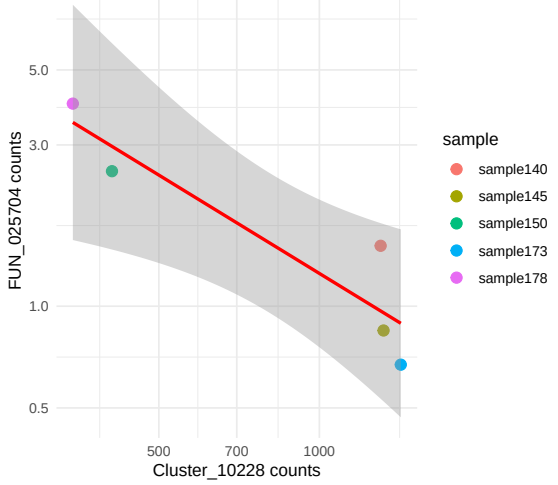
Cluster_10228 vs FUN_025704
Correlation: −0.923 | p−value: 0.0255



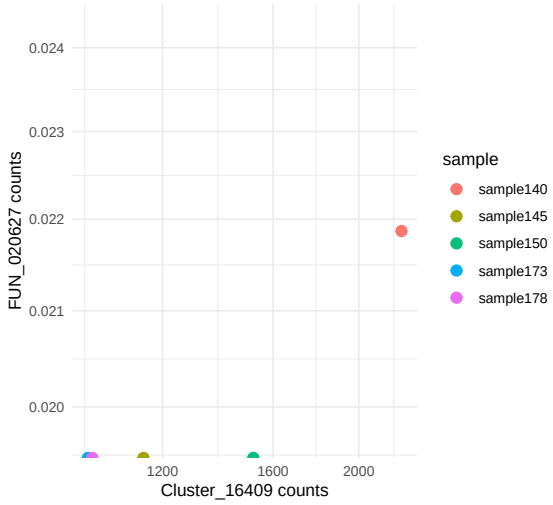
Cluster_16409 vs FUN_020627
Correlation: 0.912 | p−value: 0.0307



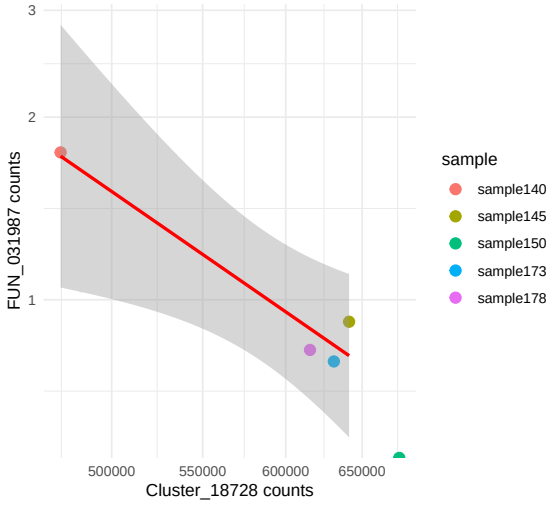
Cluster_18728 vs FUN_031987
Correlation: −0.918 | p−value: 0.0279



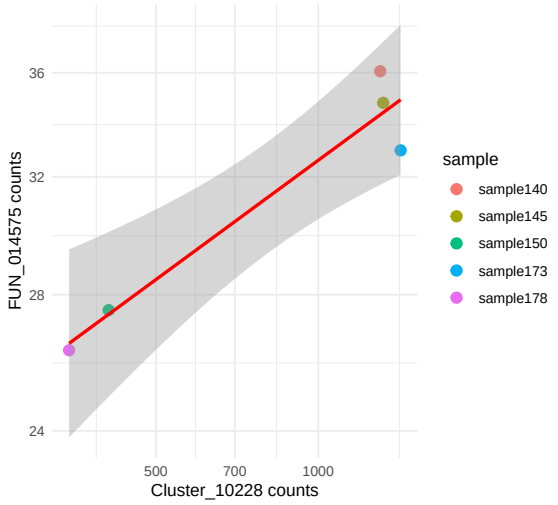
Cluster_10228 vs FUN_014575
Correlation: 0.942 | p−value: 0.0164



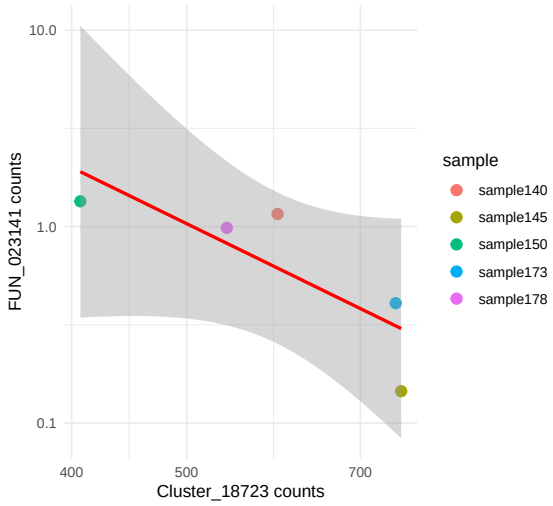
Cluster_18723 vs FUN_023141
Correlation: −0.926 | p−value: 0.0237



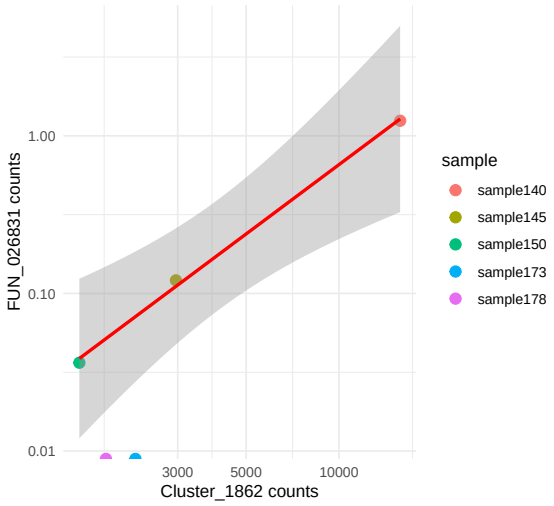
Cluster_1862 vs FUN_026831
Correlation: 0.998 | p−value: 0.000131



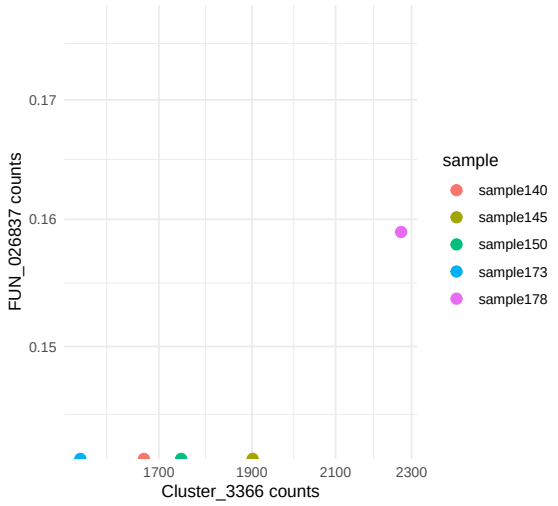
Cluster_3366 vs FUN_026837
Correlation: 0.888 | p−value: 0.044



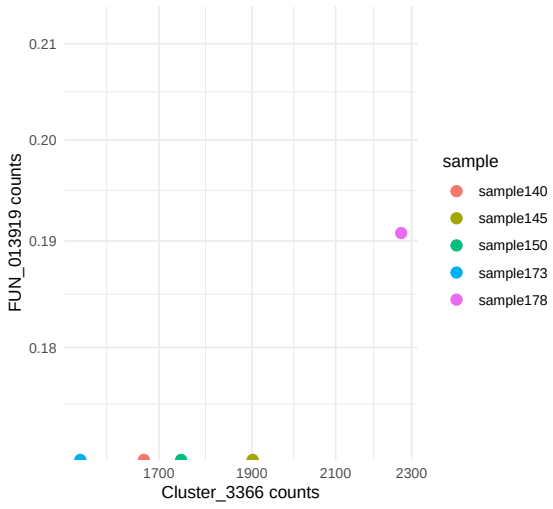
Cluster_3366 vs FUN_013919
Correlation: 0.888 | p−value: 0.044



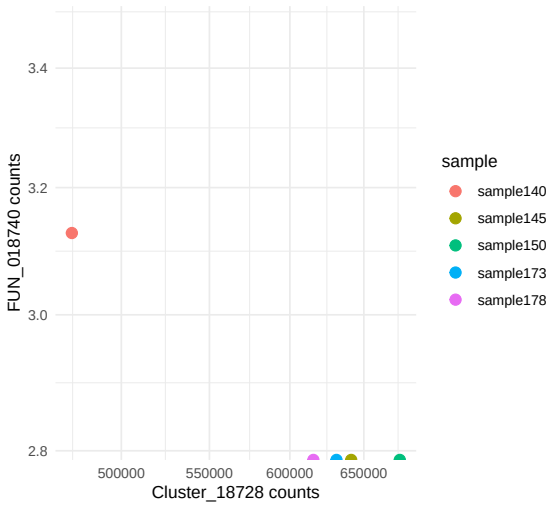
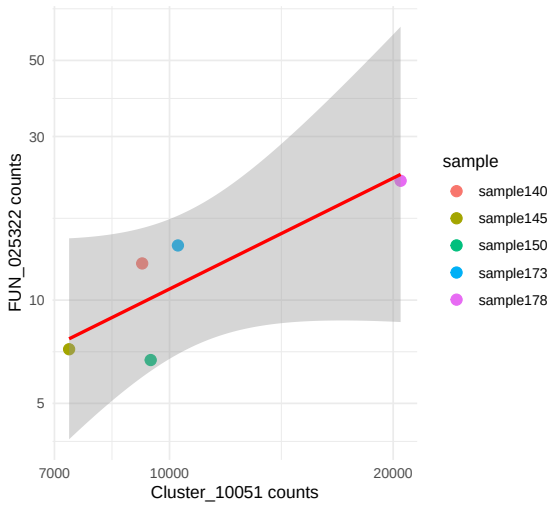
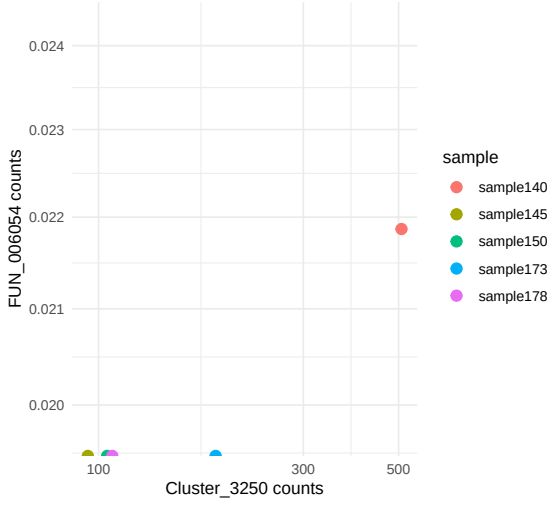
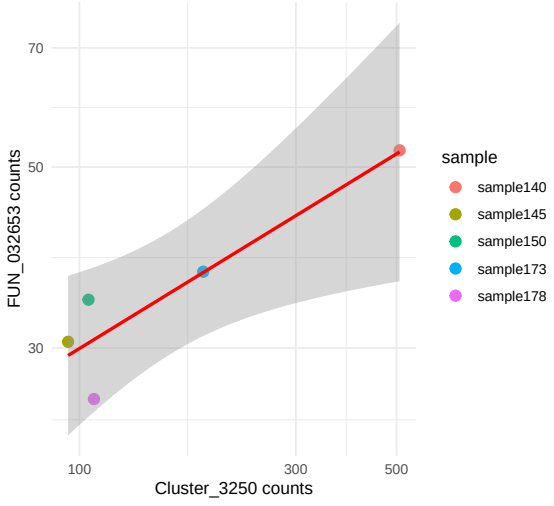
Cluster_18728 vs FUN_018740
Correlation: −0.959 | p−value: 0.01



Cluster_10051 vs FUN_025322
Correlation: 0.898 | p−value: 0.0386



Cluster_3250 vs FUN_006054
Correlation: 0.977 | p−value: 0.00407



Cluster_3250 vs FUN_032653
Correlation: 0.947 | p−value: 0.0144