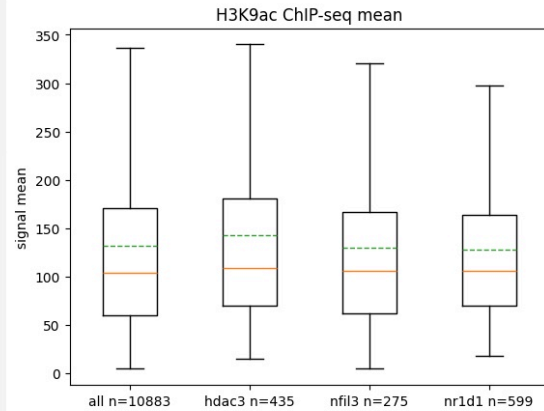
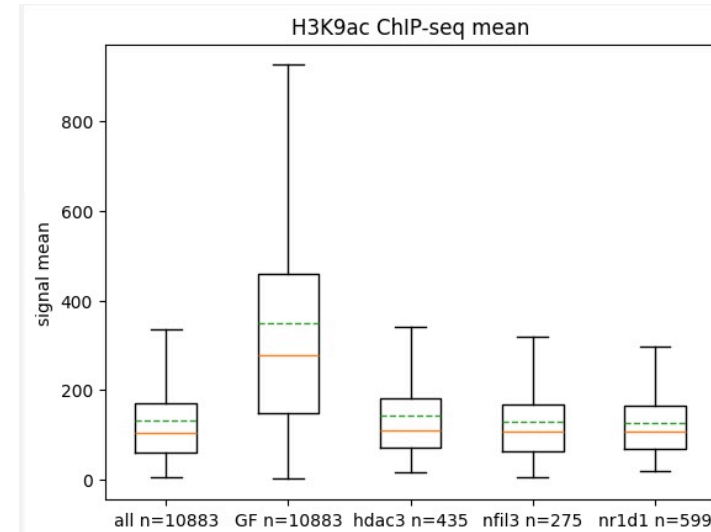


H3K9ac

Correction from last analysis:

1. skipped p-value filtering
2. used the correct unique gene sets for hdac3, nfil3, and nr1d1
3. used relative amplitude instead of absolute for cross regulator comparison

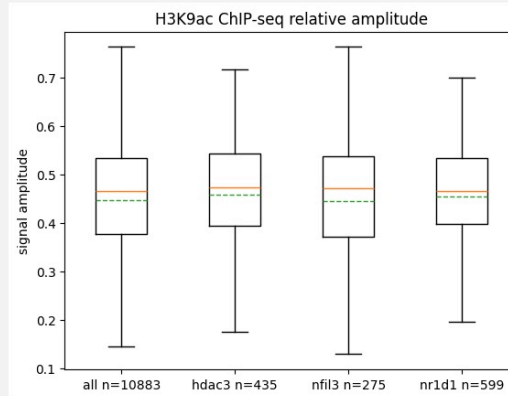
HDAC activity are generally inhibited by the microbiota so GF signals are higher



hdac3 n=435 t-test p-val is 0.05912251796646981 and t val is -1.887471392649063
 nfil3 n=275 t-test p-val is 0.8613336754563443 and t val is 0.17468073583900498
 nr1d1 n=599 t-test p-val is 0.47438958055785996 and t val is 0.7153787623769874

all n=10883 median is 104.137972743
 hdac3 n=435 median is 109.303150888
 nfil3 n=275 median is 106.321015692
 nr1d1 n=599 median is 106.176610848

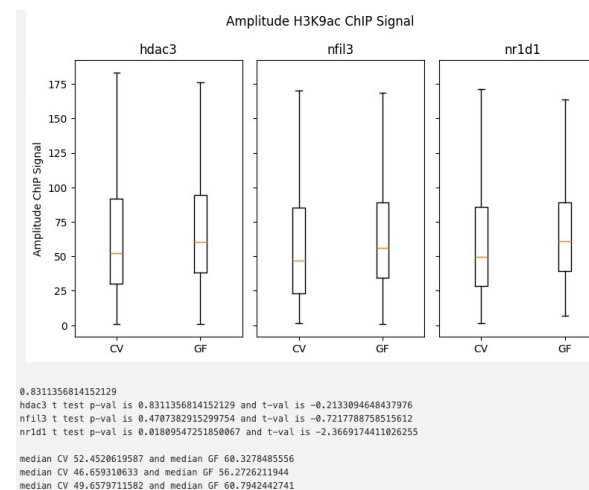
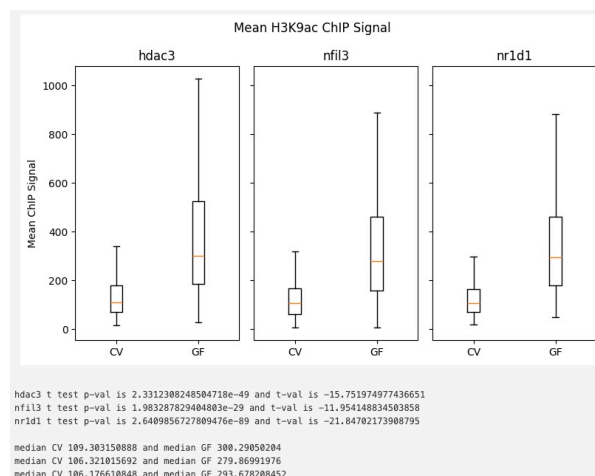
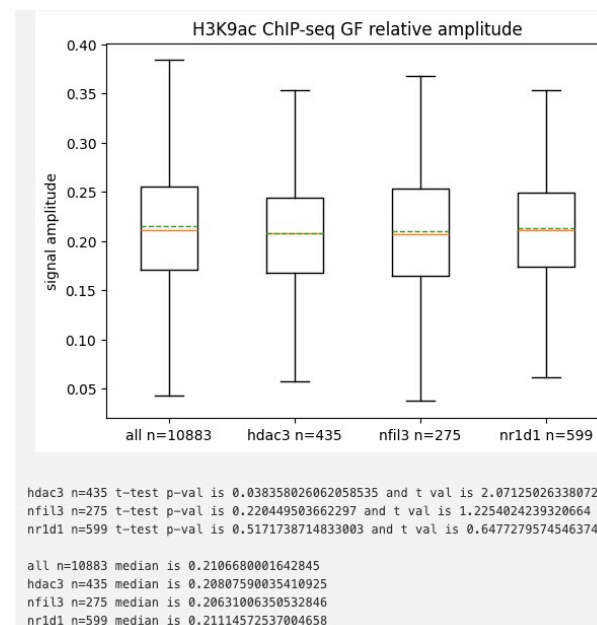
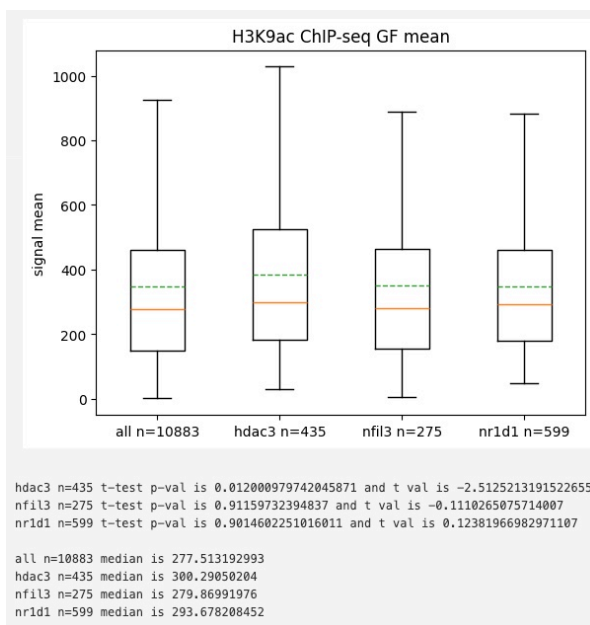
hdac3 nfil3 t-val 1.5943109154207717 p-val 0.11131269872809893
 hdac3 nr1d1 t-val 2.570233057629184 p-val 0.010302340757366262
 nfil3 nr1d1 t-val 0.36207263905281356 p-val 0.7173854741567574



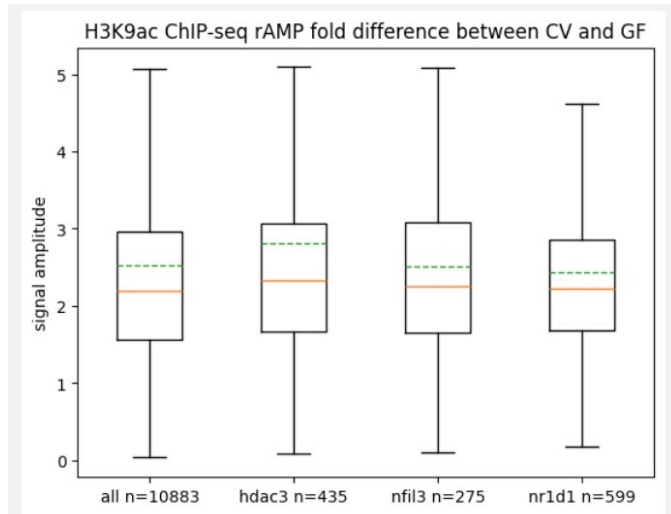
hdac3 n=435 t-test p-val is 0.04596423757854629 and t val is -1.995941296197513
 nfil3 n=275 t-test p-val is 0.8499420483866205 and t val is 0.1891967604232478
 nr1d1 n=599 t-test p-val is 0.09436095089177875 and t val is -1.6729674498809355

all n=10883 median is 0.4662201512233225
 hdac3 n=435 median is 0.4741635367108031
 nfil3 n=275 median is 0.47256749630494826
 nr1d1 n=599 median is 0.4653128645281068

hdac3 nfil3 t-val 1.4130127413252942 p-val 0.1580914383961733
 hdac3 nr1d1 t-val 0.4712687619048887 p-val 0.637548425697333
 nfil3 nr1d1 t-val -1.1874304570455174 p-val 0.23538122578198817



CV rAMP
GF rAMP

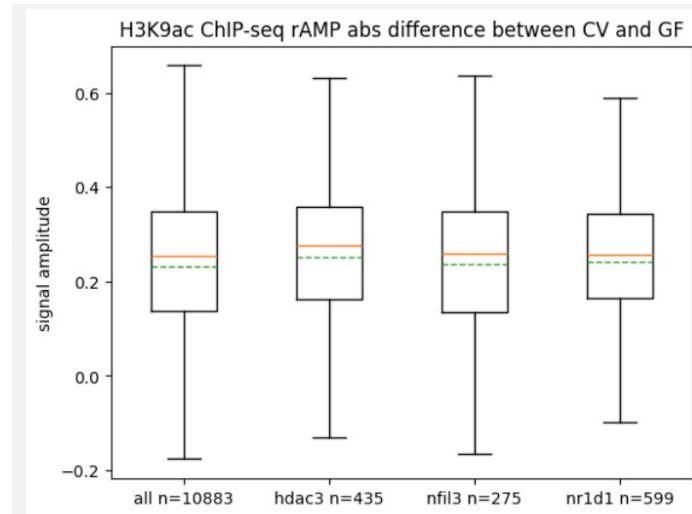


hdac3 n=435 t-test p-val is 0.01937727953167498 and t val is -2.338526325625614
nfil3 n=275 t-test p-val is 0.9089782760384548 and t val is 0.11432997888338457
nr1d1 n=599 t-test p-val is 0.3409186905683642 and t val is 0.9523911634843307

all n=10883 median is 2.192677727053652
hdac3 n=435 median is 2.3282023771966665
nfil3 n=275 median is 2.2570176397734762
nr1d1 n=599 median is 2.2310743019852195

hdac3 nfil3 t-val 1.2054506927057815 p-val 0.22843208756802652
hdac3 nr1d1 t-val 2.1709030926593353 p-val 0.03016586122790186
nfil3 nr1d1 t-val 0.7346885858668799 p-val 0.4627266951032032

CV rAMP - GF rAMP

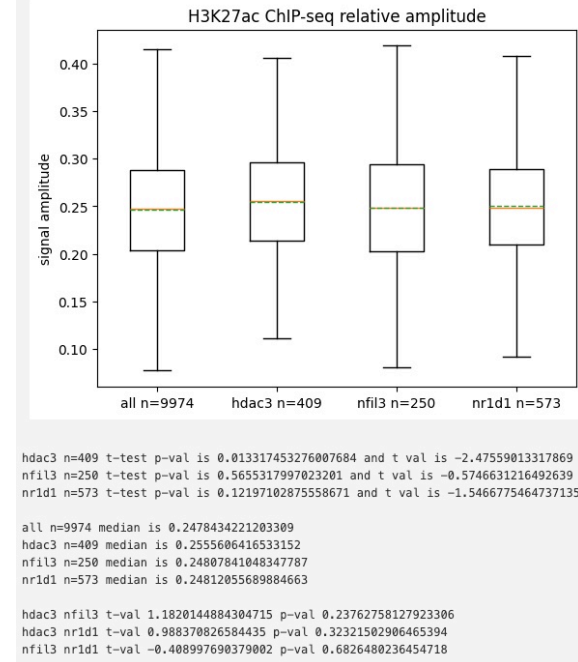
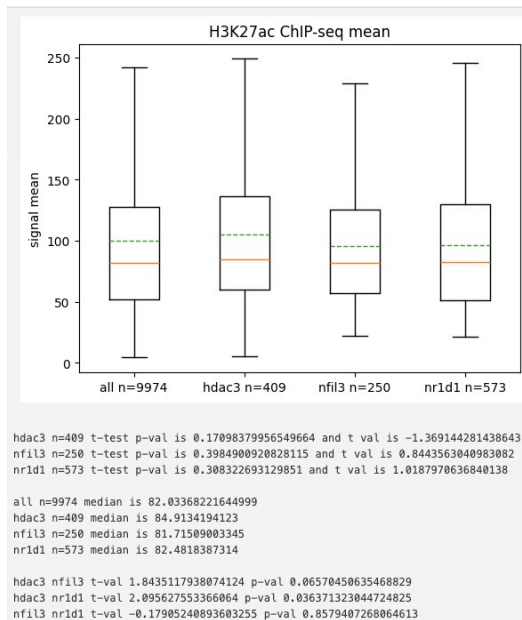
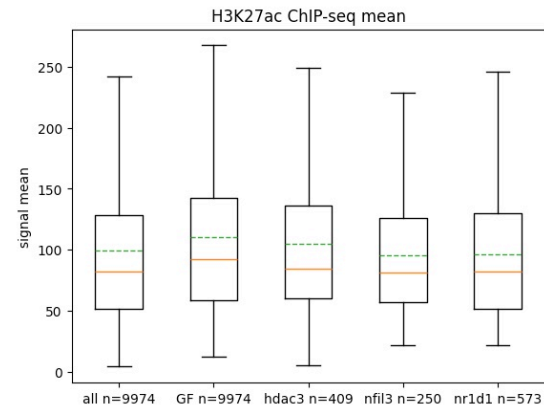


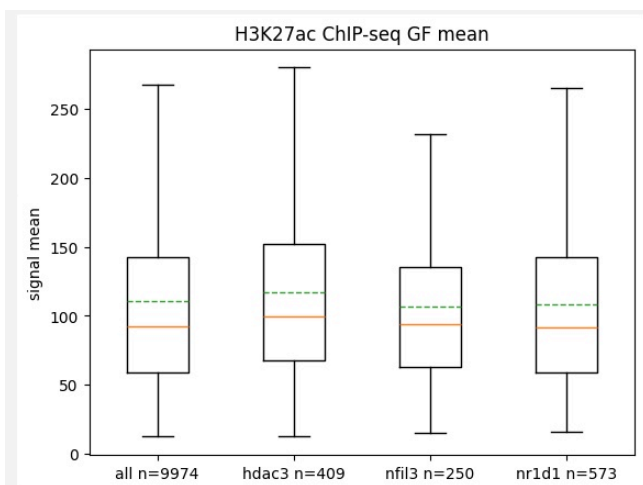
hdac3 n=435 t-test p-val is 0.017343422356388347 and t val is -2.3796954796309095
nfil3 n=275 t-test p-val is 0.6984194537313823 and t val is -0.38746490432499314
nr1d1 n=599 t-test p-val is 0.12724321819258888 and t val is -1.525174130759016

all n=10883 median is 0.25373491743743104
hdac3 n=435 median is 0.2754979862710556
nfil3 n=275 median is 0.2582281874486743
nr1d1 n=599 median is 0.2571883359324218

hdac3 nfil3 t-val 1.2450461203512677 p-val 0.2135267274780293
hdac3 nr1d1 t-val 0.9186182053390097 p-val 0.3585099520724351
nfil3 nr1d1 t-val -0.5992030683892696 p-val 0.5491931167296215

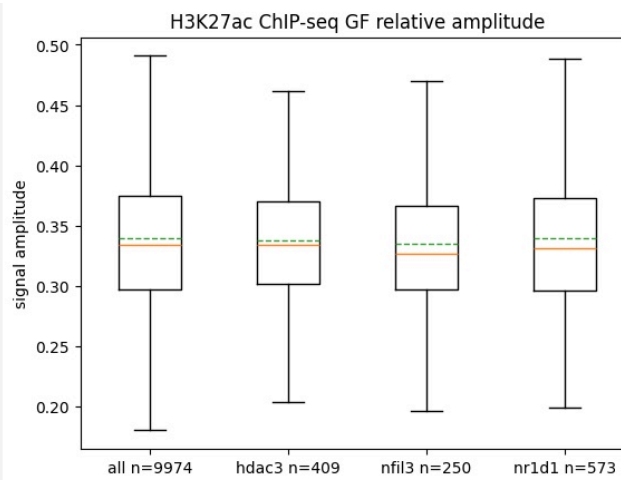
H3 K27ac





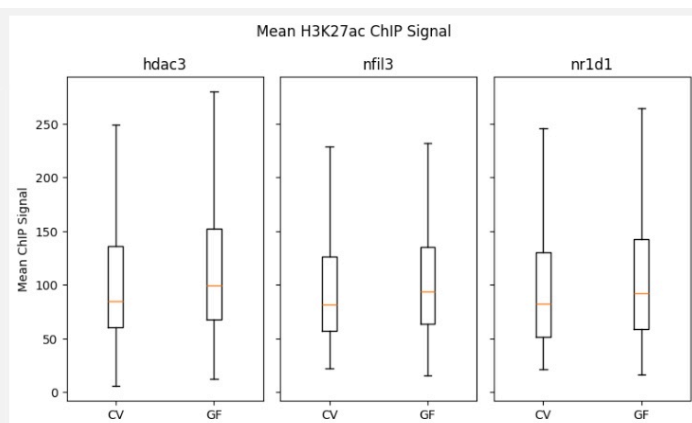
hdac3 n=409 t-test p-val is 0.07826014890909946 and t val is -1.7610454445442212
 nfil3 n=250 t-test p-val is 0.3778774372610988 and t val is 0.881852268511662
 nr1d1 n=573 t-test p-val is 0.4647480908585726 and t val is 0.7310774502394689

all n=9974 median is 92.7633690927
 hdac3 n=409 median is 99.4515268355
 nfil3 n=250 median is 93.95045212970001
 nr1d1 n=573 median is 91.8861909497



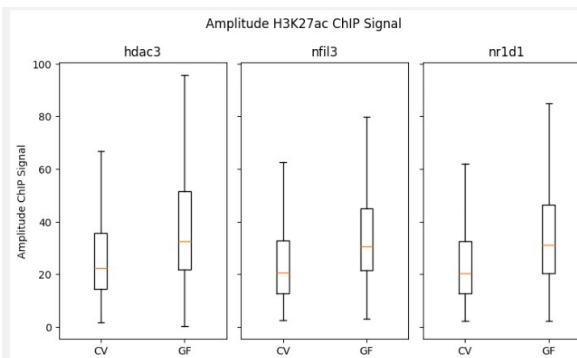
hdac3 n=409 t-test p-val is 0.5909696334699301 and t val is 0.5374481177282147
 nfil3 n=250 t-test p-val is 0.24202198089136392 and t val is 1.1700155712502547
 nr1d1 n=573 t-test p-val is 0.9029766916630455 and t val is 0.12190485727540198

all n=9974 median is 0.33353880308577744
 hdac3 n=409 median is 0.3337902447056782
 nfil3 n=250 median is 0.3269379799913077
 nr1d1 n=573 median is 0.3310495024085098



hdac3 t test p-val is 0.008653416838086231 and t-val is -2.6318146665951816
 nfil3 t test p-val is 0.0401552266611423 and t-val is -2.0575309684373826
 nr1d1 t test p-val is 0.00130359501641984 and t-val is -3.2231710660982507

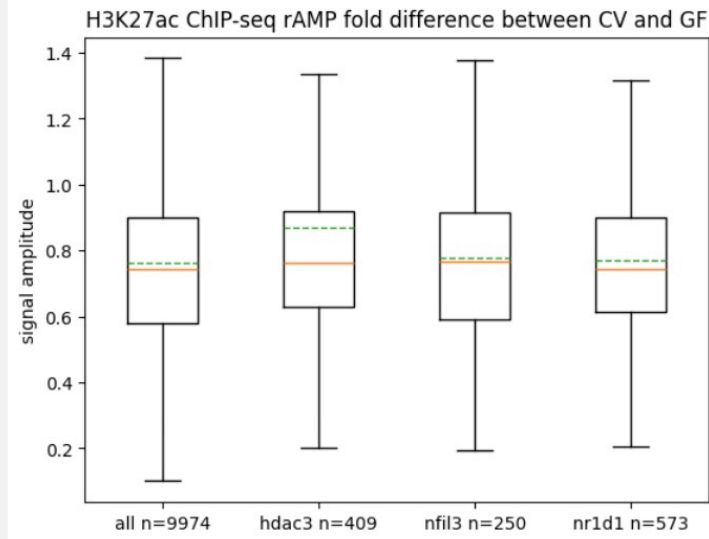
median CV 84.9134194123 and median GF 99.4515268355
 median CV 81.71509003345 and median GF 93.95045212970001
 median CV 82.4818387314 and median GF 91.8861909497



4.596048638618584e-16
 hdac3 t test p-val is 4.596048638618584e-16 and t-val is -8.291281253991576
 nfil3 t test p-val is 4.311507142523141e-11 and t-val is -6.742979947586874
 nr1d1 t test p-val is 1.676467308111908e-25 and t-val is -10.693118301317579

median CV 22.3347921544 and median GF 32.4194728666
 median CV 20.579456021200002 and median GF 30.6078279105
 median CV 20.2618241496 and median GF 31.1391512335

CV rAMP
GF rAMP

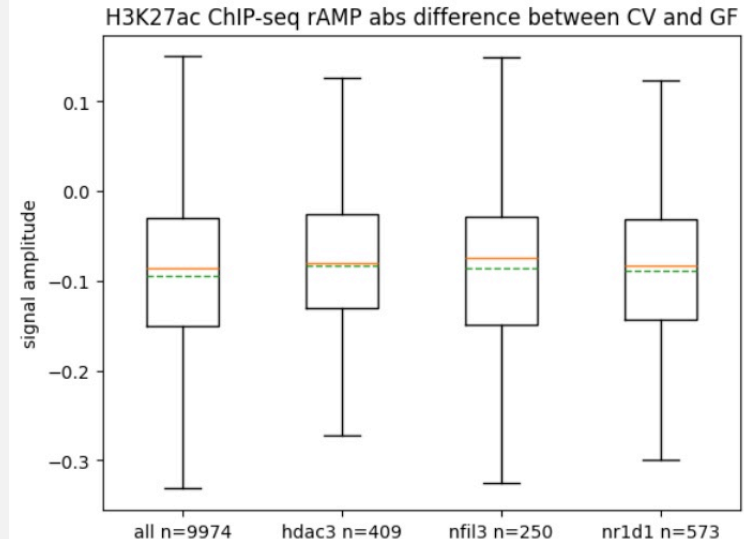


hdac3 n=409 t-test p-val is 0.00021015795003068296 and t val is -3.707798209954261
nfil3 n=250 t-test p-val is 0.586669978077639 and t val is -0.5436851961358244
nr1d1 n=573 t-test p-val is 0.7782584609810707 and t val is -0.28159648543723903

all n=9974 median is 0.7423599032204596
hdac3 n=409 median is 0.7644102610406726
nfil3 n=250 median is 0.7665581897837488
nr1d1 n=573 median is 0.7455256621400929

hdac3 nfil3 t-val 0.8072688209436744 p-val 0.41980377476285846
hdac3 nr1d1 t-val 1.355696184495359 p-val 0.1755081781953374
nfil3 nr1d1 t-val 0.509072913639339 p-val 0.6108379020003738

CV rAMP - GF rAMP



hdac3 n=409 t-test p-val is 0.04257425944063621 and t val is -2.02811242474225
nfil3 n=250 t-test p-val is 0.2305686973360767 and t val is -1.1989666737245215
nr1d1 n=573 t-test p-val is 0.2636005147376799 and t val is -1.1179811458092674

all n=9974 median is -0.08619929383853325
hdac3 n=409 median is -0.08005129398060545
nfil3 n=250 median is -0.07389590169501692
nr1d1 n=573 median is -0.08248054500092966

hdac3 nfil3 t-val 0.3302132697756039 p-val 0.7413440869925001
hdac3 nr1d1 t-val 0.8913790890352615 p-val 0.3729446264115407
nfil3 nr1d1 t-val 0.39309307367476076 p-val 0.6943527878180336