

# Gene Expression Report

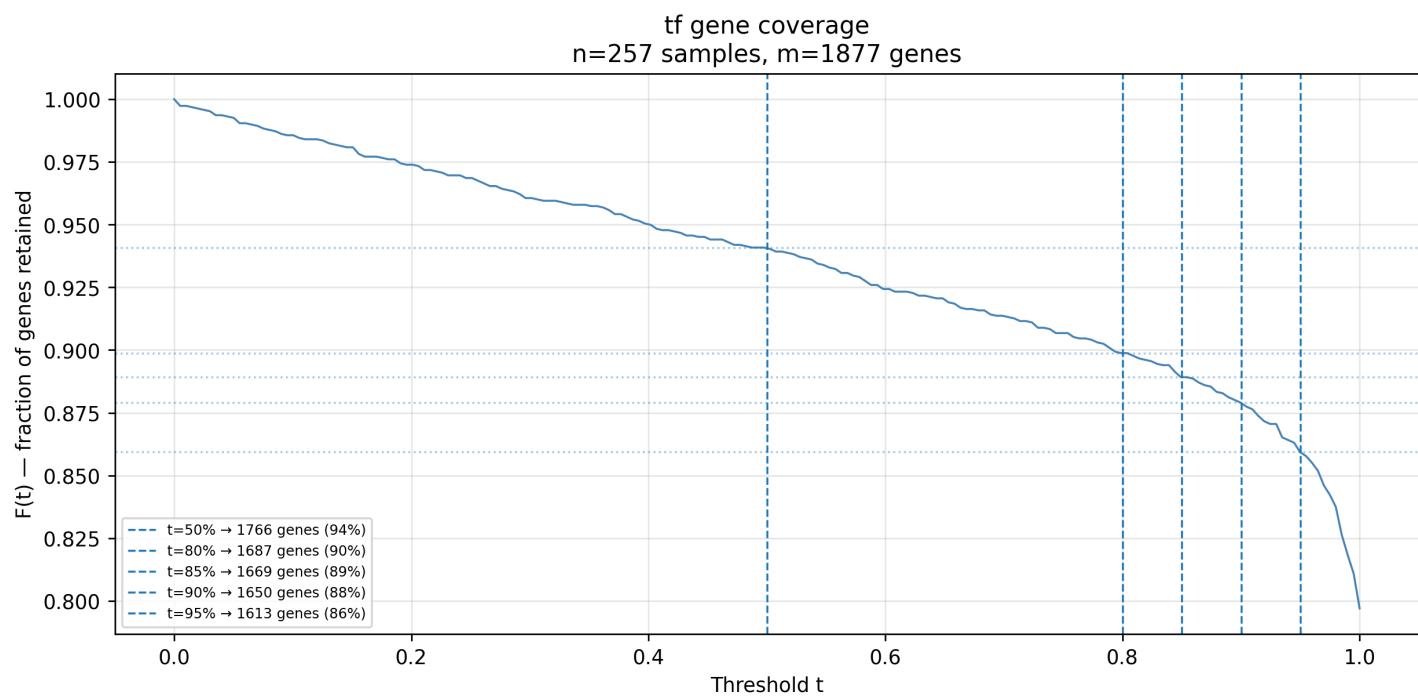
Source: Gene TPMs for Brain - Hypothalamus  
Downloaded: 2025-12-24 01:52:41.437634  
Generated: 2026-02-24 22:16

## Basic Stats

Samples: 257 | Genes: 59033 | TF: 1873 | Targets: 55980

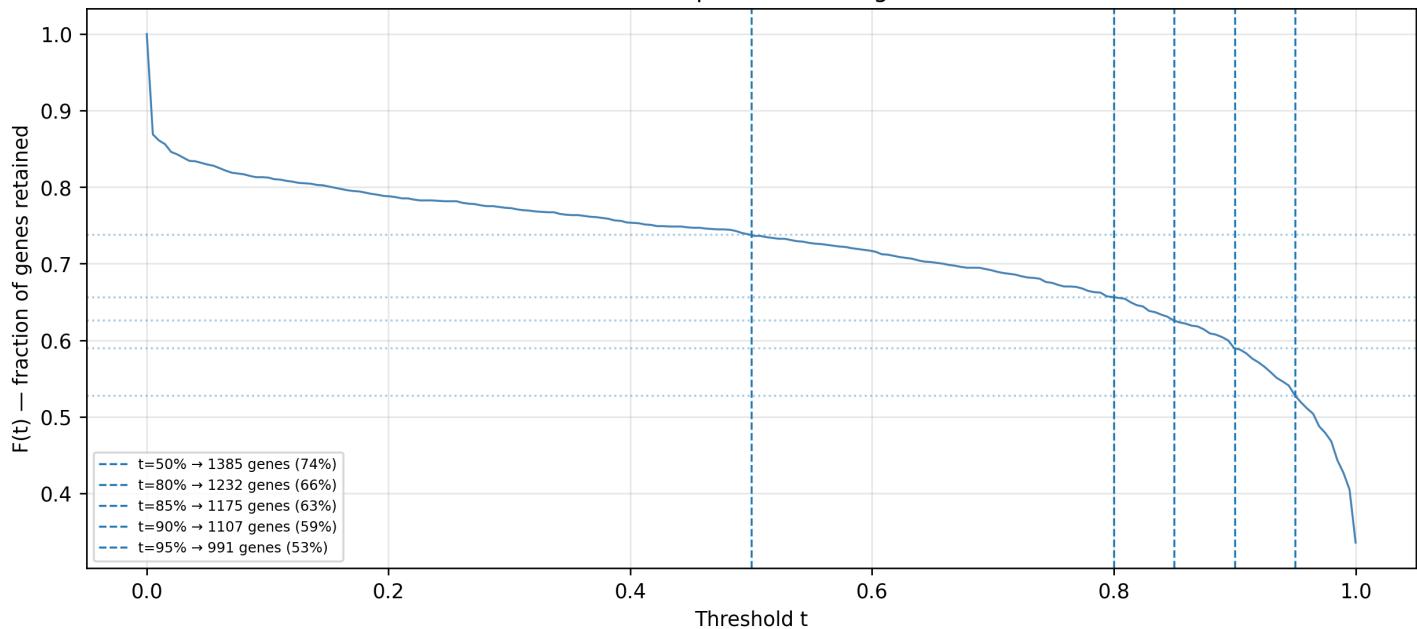
## TF Stats

### Sparsity

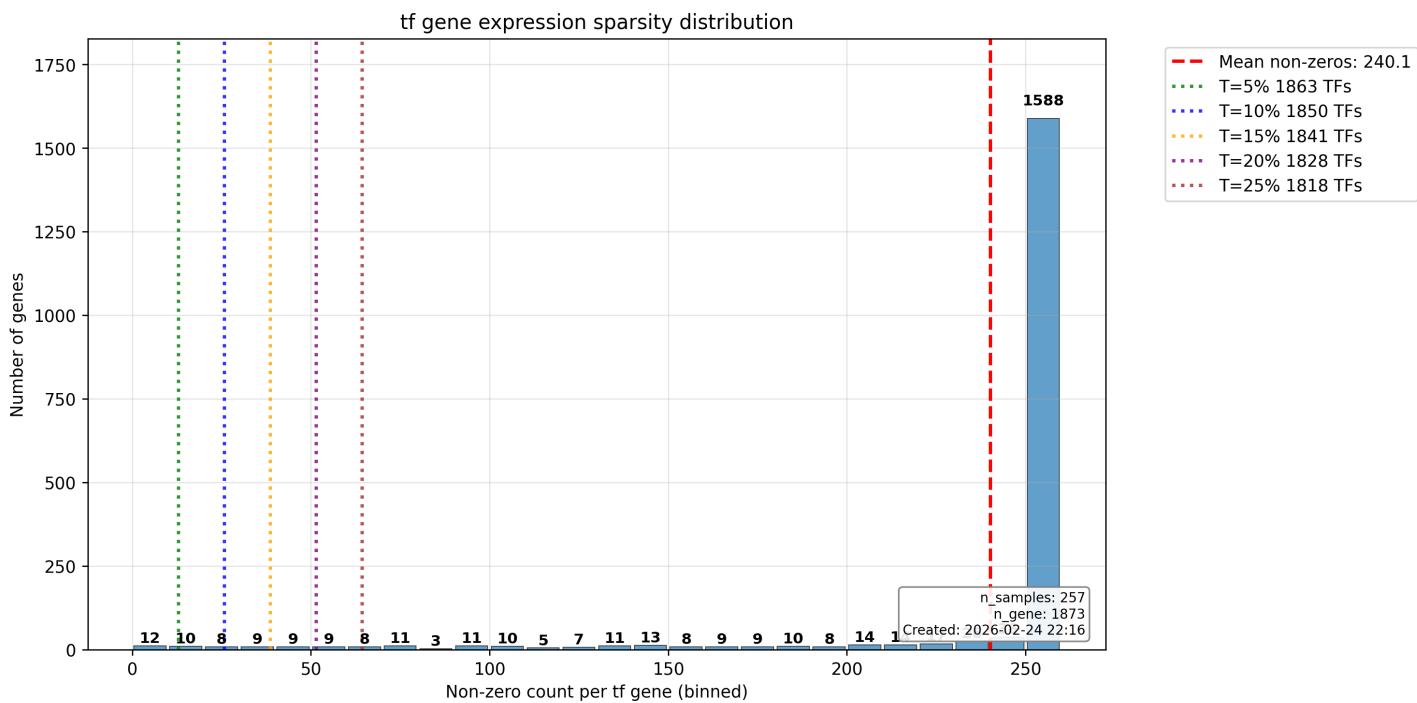


Coverage of gene as a function of coverage threshold. Coverage is expression value greater than 0

tf gene coverage  
n=257 samples, m=1877 genes

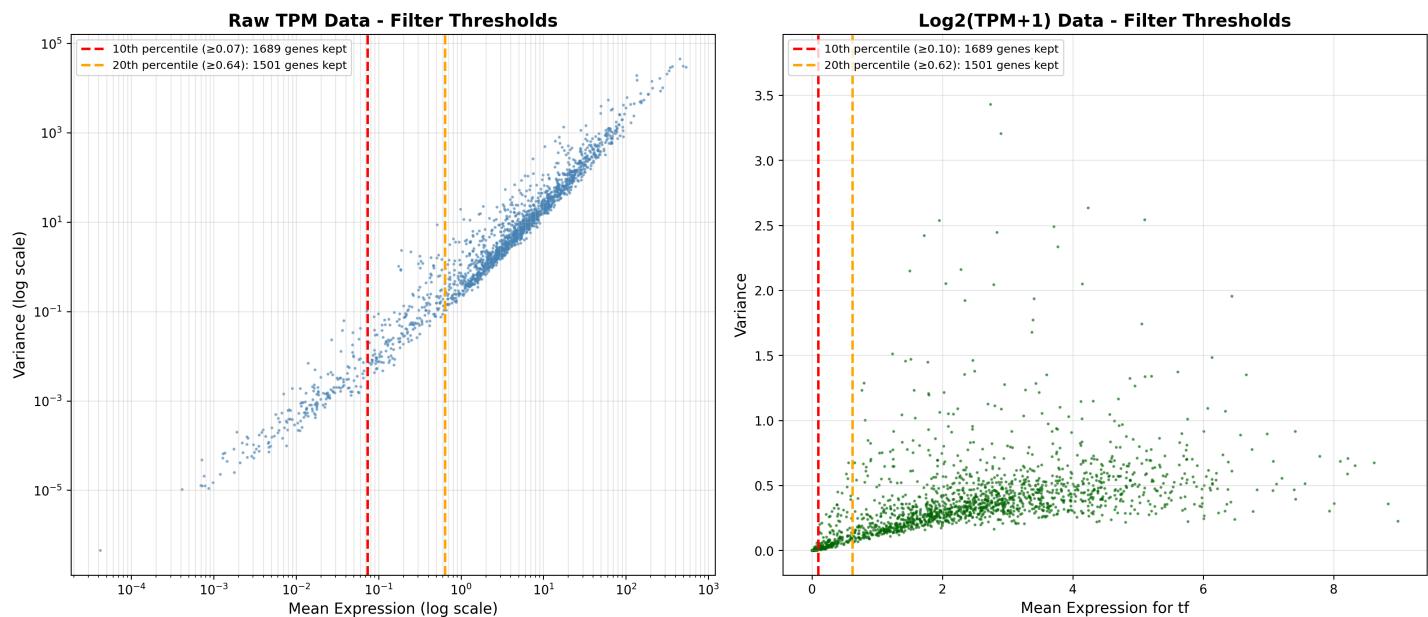


Coverage of gene as a function of coverage threshold. Coverage is expression value greater than 1



Distribution of non-zero values across TFs. X-axis shows sample count.

## Mean Variance



## Highly Expressed

gene	mean	std	min	max
RPL35	533.175218	171.812631	193.42800	1303.330
YWHAE	492.756810	176.320488	96.89910	1032.260
PRDX5	450.917954	213.073241	55.99370	1014.120
UBB	366.891319	174.759669	54.49110	972.665
PKM	344.050311	169.826314	45.32580	852.858
ENO1	334.748417	157.058456	39.97920	876.836
SOD1	313.345400	144.427830	29.68950	772.205
RPL6	277.133121	101.645419	71.04150	549.859
RPS4X	260.841216	92.983173	75.11140	570.060
TPI1	255.725274	129.512037	30.72300	701.841
JUND	210.151446	100.739408	31.75830	717.157
PRNP	204.890085	119.442358	19.72270	653.700
TSC22D4	186.846763	85.642130	51.30930	553.062
OLIG1	186.180525	85.274402	48.30550	528.143
NPDC1	165.002818	73.732774	32.07790	377.035
SRP9	154.343370	68.281261	25.98750	395.923
SNRNP70	153.511191	72.068851	11.22730	488.859
YWHAZ	151.189360	87.478615	17.51210	575.341
ATF4	147.926949	70.204681	25.63090	499.613
HSPA5	136.379577	122.682367	8.17324	1127.230

## Lowly Expressed

gene	mean	std	min	max
HOXB1	0.001767	0.005013	0.0	0.027014
MYCLP1	0.001758	0.009192	0.0	0.072047
PRDM14	0.001446	0.006689	0.0	0.047152
SPIC	0.001362	0.008270	0.0	0.080225

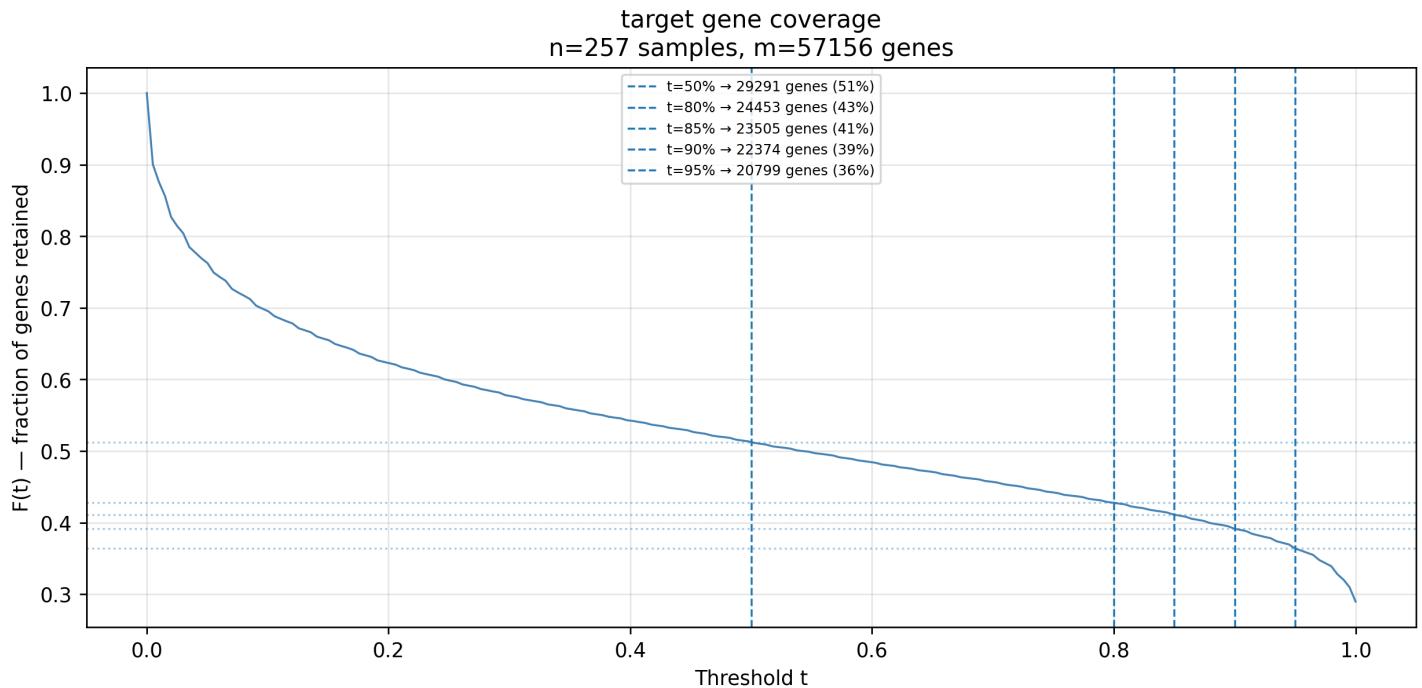
ZNF705CP	0.001297	0.008111	0.0	0.067288
MYF5	0.001286	0.007294	0.0	0.055305
SSX2	0.001195	0.004768	0.0	0.030592
IL21	0.000979	0.003873	0.0	0.025745
KLF18	0.000865	0.003316	0.0	0.021661
HSFY1	0.000780	0.003549	0.0	0.025453
HOXD12	0.000761	0.004582	0.0	0.050029
ZNF705D	0.000720	0.003544	0.0	0.032496
TGIF2LX	0.000712	0.006964	0.0	0.081544
HSFY2	0.000693	0.003594	0.0	0.035871
ZNF355P	0.000411	0.003241	0.0	0.039934
DUX4	0.000042	0.000670	0.0	0.010747
GTPBP6	0.000000	0.000000	0.0	0.000000
PPP2R3B	0.000000	0.000000	0.0	0.000000
SHOX	0.000000	0.000000	0.0	0.000000
ZBED1	0.000000	0.000000	0.0	0.000000

## Duplicates

PPP2R3B	GTPBP6	SHOX	ZBED1				
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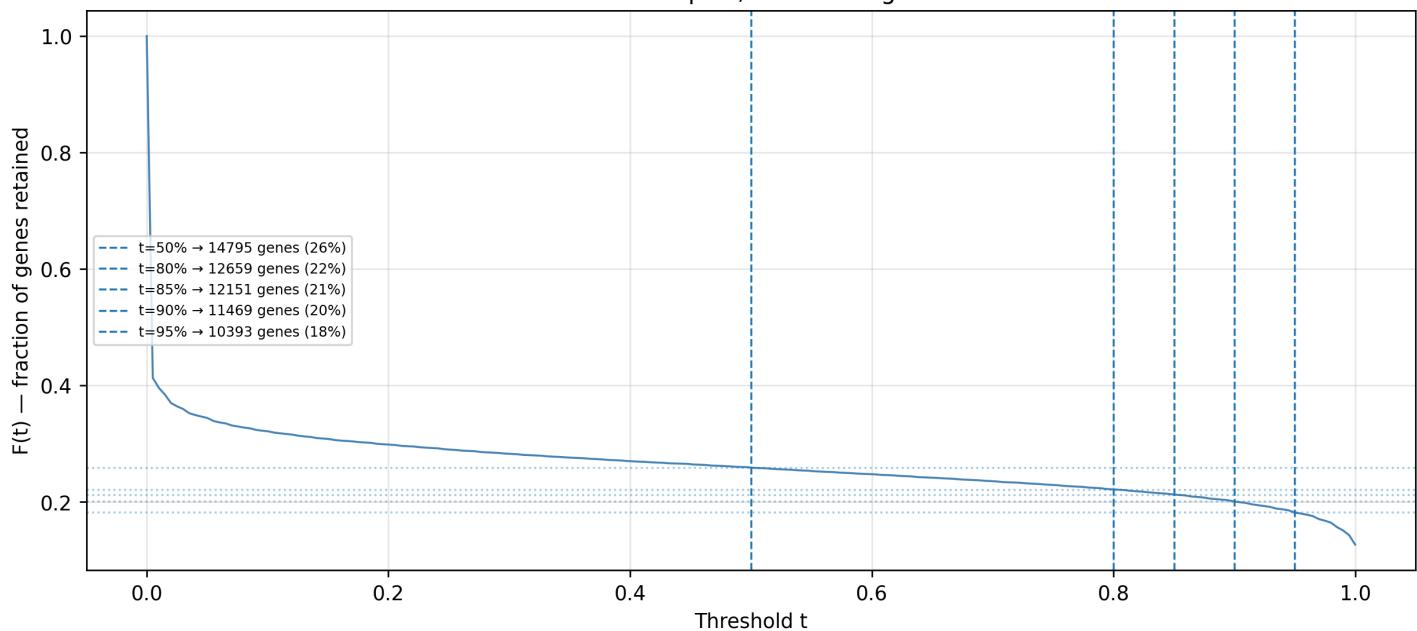
## Target Gene Stats

### Sparsity

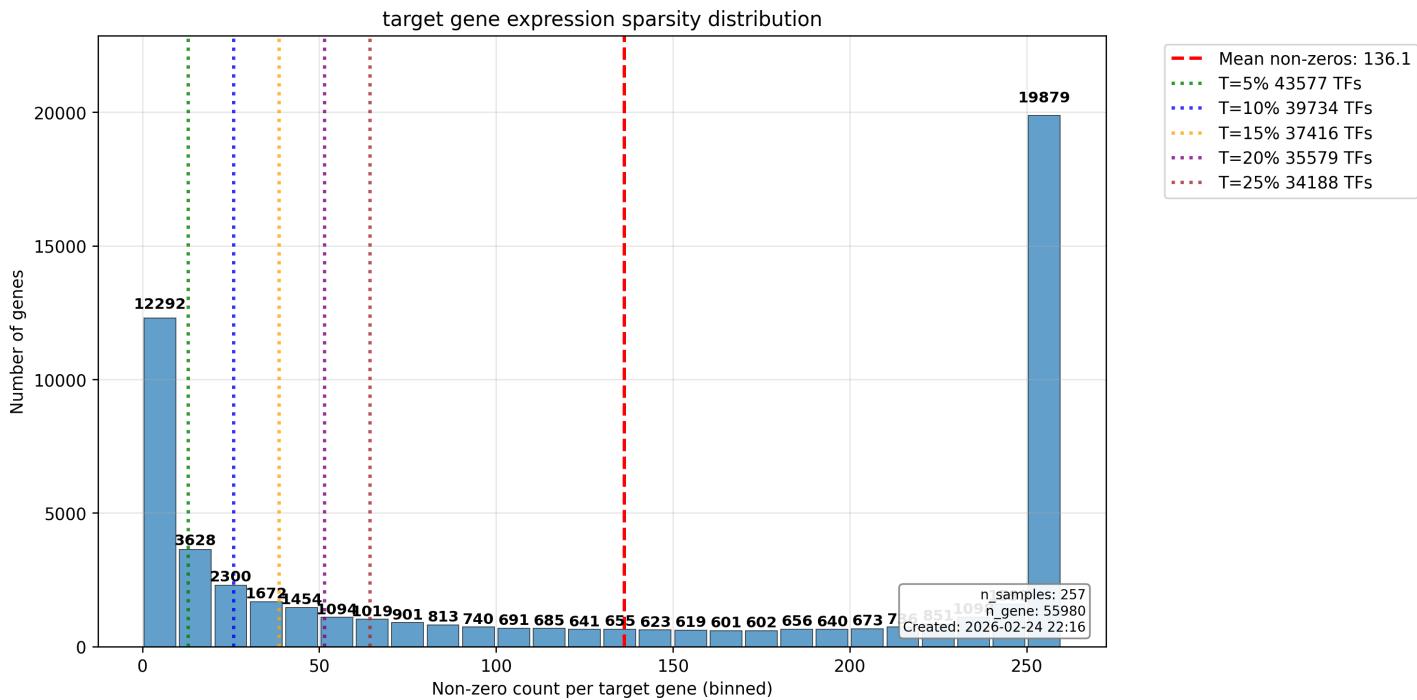


Coverage of gene as a function of coverage threshold. Coverage is expression value greater than 0

target gene coverage  
n=257 samples, m=57156 genes

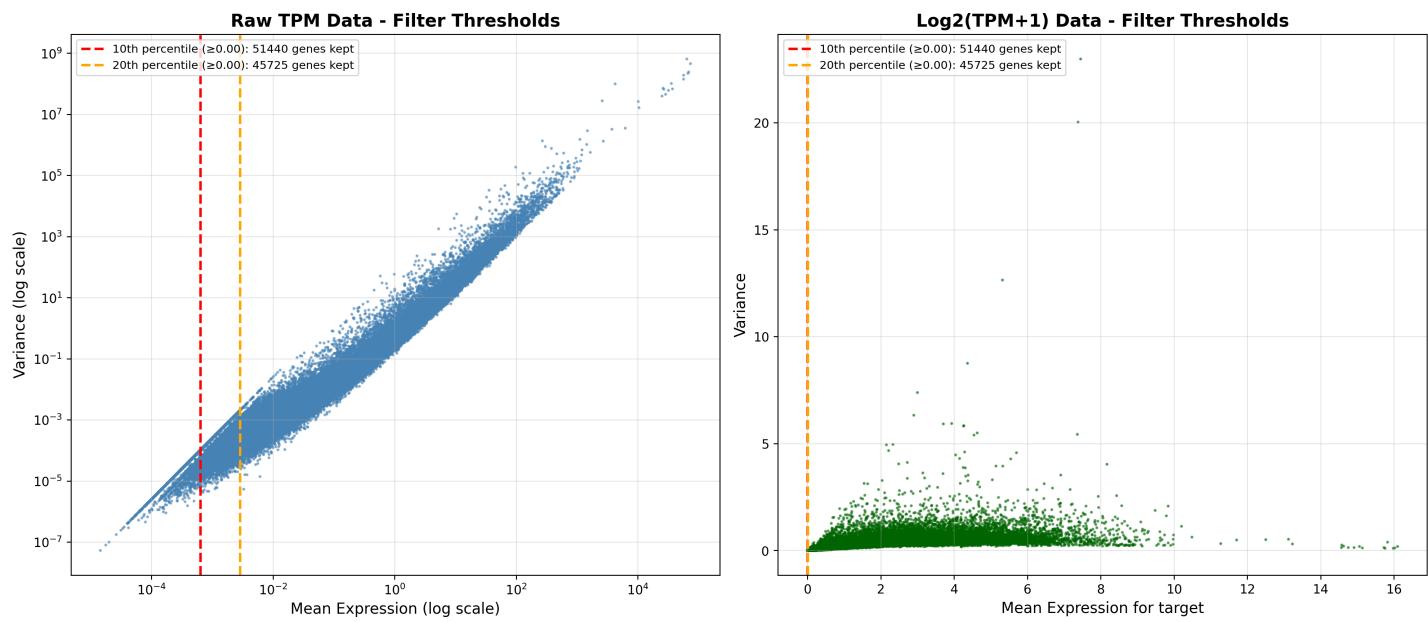


Coverage of gene as a function of coverage threshold. Coverage is expression value greater than 1



Distribution of non-zero values across Target genes. X-axis shows sample count.

## Mean Variance



## Highly Expressed

gene	mean	std	min	max
MT-RNR2	73331.287549	21382.703430	31885.800	131043.00
MT-CO2	68395.214786	15644.194411	30272.100	114606.00
MT-CO3	66180.818677	14780.964261	29940.000	99729.10
MT-CO1	63238.434630	25602.523592	14383.000	128676.00
MT-ATP6	56600.192218	11976.420032	24931.800	87056.30
MT-ND4	55964.361479	13892.715438	19137.800	89443.20
MT-ND2	36881.075486	8319.620572	15142.500	60504.90
MT-ND1	35476.962257	10196.004480	10709.700	61668.10
MT-CYB	31680.315564	7872.928945	11312.900	52678.50
MT-ATP8	28336.394942	6778.862947	11613.900	45801.90
MT-RNR1	26452.258366	8185.954486	11695.800	57985.70
MT-ND4L	25834.986342	8566.180591	7589.310	48995.60
MT-ND3	24965.108949	6327.434122	10928.700	49831.50
MT-ND5	10307.939611	4099.257733	2753.460	26707.00
MT-ND6	10076.284397	5174.227944	2518.850	28393.50
MTATP6P1	6200.483935	1880.355871	47.239	17258.50
AVP	4224.500637	10014.967493	0.000	89559.60
GFAP	3747.930187	1814.823222	634.629	11155.20
FTL	2677.724132	1161.903409	904.953	9204.67
OXT	2589.437974	5276.930811	0.000	30229.80

## Lowly Expressed

gene	mean	std	min	max
RNU7-175P	0.0	0.0	0.0	0.0
ENSG00000235738	0.0	0.0	0.0	0.0
ENSG00000277646	0.0	0.0	0.0	0.0
RN7SKP178	0.0	0.0	0.0	0.0

RNA5SP421	0.0	0.0	0.0	0.0
MIR4655	0.0	0.0	0.0	0.0
MIR4438	0.0	0.0	0.0	0.0
MIR1322	0.0	0.0	0.0	0.0
CDY9P	0.0	0.0	0.0	0.0
MIR6089	0.0	0.0	0.0	0.0
MIR548S	0.0	0.0	0.0	0.0
RNU6-478P	0.0	0.0	0.0	0.0
HSPE1P1	0.0	0.0	0.0	0.0
FAM197Y6	0.0	0.0	0.0	0.0
ENSG00000231353	0.0	0.0	0.0	0.0
RNU6-612P	0.0	0.0	0.0	0.0
IGHVII-26-2	0.0	0.0	0.0	0.0
RN7SKP294	0.0	0.0	0.0	0.0
MIR4500	0.0	0.0	0.0	0.0
ENSG00000236386	0.0	0.0	0.0	0.0

## Duplicates

Y\_RNA, Metazoa\_SRP, U3, U6, SNORA70, U8, U2, 5S\_rRNA, U4, SNORA75  
 SNORA63, SNORA72, 7SK, SNORA62, 5\_8S\_rRNA, U7, SNORA74, SNORD39, SNORA73, SNORD81  
 SNORD116, U1, SNORD63, ELOC24, RPL14P5, SLC25A6, CSF2RA, SNORD115, LINC00102, ASMTL  
 IL3RA, LINC00484, FAM153B, WASH6P, AMD1P2, ALG1L9P, MIR3690, CD99, CD99P1, LINC01115  
 ENSG00000281849, SPATA13, DDX11L16, DNAJC9-AS1, CYB561D2, RAET1E-AS1, ELFN2, GOLGA8M, TMSB15B, SNORD42  
 ENSG00000289007, LINC02256, SNORA71, TBCE, ENSG00000280767, ENSG00000234622, SNORD18, DHRSX, NPEPPSP1, ENSG00000237531  
 ARMCX5-GPRASP2, ENSG00000228572, LINC00106, WASIR1, TRPC6P, AKAP17A, CRLF2, SNORD33, SIGLEC5, FABP5P13  
 LINC01238, VAMP7, ENSG00000223511, KRT18P53, DPH3P2, CLCA4-AS1, IL9R, LINC00486, LINC01214, PLCXD1  
 ENSG00000289620, ASMT, HERC2P7, RG55, Vault, LINC00685, MIR6089, LINC01605, DHRSX-IT1, ASMTL-AS1  
 P2RY8, RNA5SP498