

[See page 3](#)[See page 4](#)[See page 5](#)[See page 6](#)[Correlation Analysis](#)[Expression Analysis](#)[Transcript Analysis](#)[Single Gene Analysis](#)[About](#)

Select Your Phenotype of Interest

Cardiac Arrhythmia

Tissue of Interest:

Heart Atrial Appendage

Accessible Tissue:

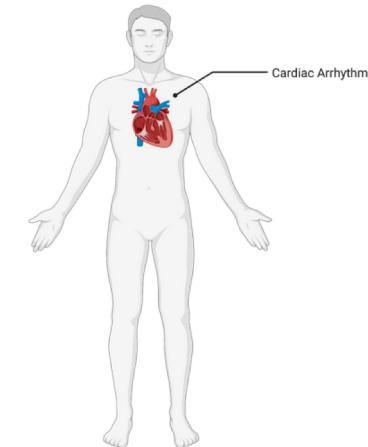
Muscle Skeletal

[Reset](#) [Manual](#)[Deselect TI and AT](#) Custom Gene List[Upload gene list; see page 2](#)[Choose Phenotype](#)

Choose a phenotype based on patient's symptoms

Choose one or more tissues of interest based on the inferred pathophysiology

Choose one or more accessible tissues

Show 10 [entries](#)

Data Source: GTEx Analysis Release V8

Displayed numbers represent median gene-level TPM by tissue

Search:

| Gene ID | Ensembl ID | Muscle Skeletal | Heart Atrial Appendage |
|---------|--------------------|-----------------|------------------------|
| KCND3 | ENSG00000171385.9 | 1.47 | 7.78 |
| CASQ2 | ENSG00000118729.11 | 126.63 | 416.66 |
| RYR2 | ENSG00000198626.15 | 0.09 | 75.78 |
| CALM2 | ENSG00000143933.16 | 131.85 | 233.71 |
| CAV3 | ENSG00000182533.6 | 46.48 | 10.39 |
| GPD1L | ENSG00000152642.10 | 101.87 | 73.78 |
| SCN5A | ENSG00000183873.15 | 0.47 | 36.13 |
| SCN10A | ENSG00000185313.6 | 0.00 | 0.07 |
| SLMAP | ENSG00000163681.14 | 12.16 | 17.80 |
| FGF12 | ENSG00000114279.13 | 0.19 | 25.43 |

Showing 1 to 10 of 39 entries

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Phenotype-Tissue Expression & Exploration

Select Your Phenotype of Interest

Cardiac Arrhythmia

Tissue of Interest:

Heart Atrial Appendage Heart Left Ventricle

Accessible Tissue:

Muscle Skeletal Whole Blood

Reset Manual

Custom Gene List

Choose Gene List File (Ensembl Gene ID or HGNC Symbol)

Browse... No file selected

OR Choose this option to manually input gene IDs

Paste Gene ID

Paste comma or space separated Ensembl Gene ID or HGNC Symbol

Reset Download example data

Deselect the uploaded gene IDs

Choose Phenotype

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Input your gene list in txt format. Users can download example data



Tissue of Interest (TI)

Heart Atrial Appendage Heart Left Ventricle

Accessible Tissue (AT)

Skin Not Sun Exposed Suprapubic Cells EBV transformed lymphocytes Cells Cultured fibroblasts Whole Blood
Skin Sun Exposed Lower leg Muscle Skeletal

Select file type for the plot

 png pdf

Select file format for download of plots

Choose Phenotype

Correlation Analysis

Expression Analysis

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Show 10 entries

Correlation matrix

Correlation based on the expression levels of genes with median TPM >1.5 included in the list for the chosen phenotype / custom list

Heart Atrial Appendage ▾ Heart Left Ventricle ▾ Skin Not Sun Exposed Suprapubic ▾

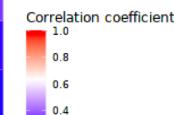
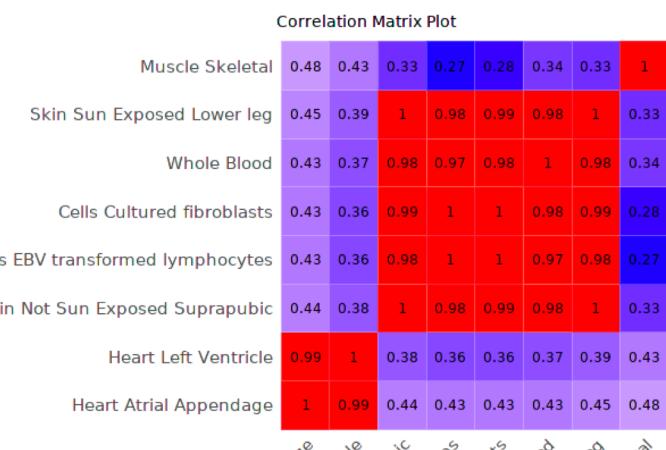
| | | | |
|-----------------------------------|-------------------|-------------------|-------------------|
| Heart Atrial Appendage | 1 | 0.99371328515834 | 0.443227813770292 |
| Heart Left Ventricle | 0.99371328515834 | 1 | 0.376355105137214 |
| Skin Not Sun Exposed Suprapubic | 0.443227813770292 | 0.376355105137214 | 1 |
| Cells EBV transformed lymphocytes | 0.426712847718543 | 0.360019487993884 | 0.984511426578795 |
| Cells Cultured fibroblasts | 0.430027901950121 | 0.363911034245978 | 0.987861650599205 |
| Whole Blood | 0.430413738492218 | 0.365229139614015 | 0.983139020831887 |
| Skin Sun Exposed Lower leg | 0.451982250857992 | 0.385515357854457 | 0.999534412245134 |
| Muscle Skeletal | 0.47683899669258 | 0.434116354710954 | 0.328820754545679 |

Showing 1 to 8 of 8 entries



Download correlation coefficients table in csv format

Pearson correlation coefficients



Heart Atrial Appendage
Heart Left Ventricle
Skin Not Sun Exposed Suprapubic
Cells EBV transformed lymphocytes
Cells Cultured fibroblasts
Whole Blood
Skin Sun Exposed Lower leg
Muscle Skeletal



Download heatmap plot



Tissue of Interest (TI)

Heart Atrial Appendage

Accessible Tissue (AT)

Muscle Skeletal

Venn Diagram of Expressed Genes

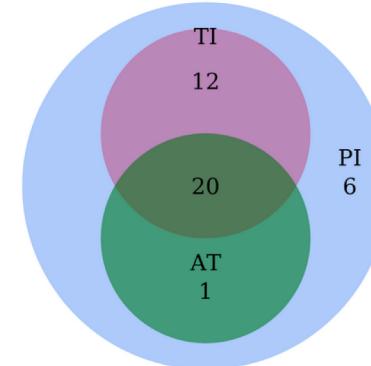
AT = Accessible Tissue

TI = Tissue of Interest

PI = Phenotype of Interest

[Choose Phenotype](#) [Correlation Analysis](#) [Expression Analysis](#) [Transcript Analysis](#) [Single Gene Analysis](#) [About](#)

Overlap of genes included in the inquired gene list (PI) and genes expressed (median TPM >1.5) in AT and TI

[Download Venn diagram \(png\)](#)

Show 5 entries

Search:

List of Genes with Median gene-level TPM by tissue

| Ensembl ID | Gene ID | Muscle Skeletal | Type | Heart Atrial Appendage |
|--------------------|---------|-----------------|----------|------------------------|
| ENSG00000053918.15 | KCNQ1 | 0.38 | TI PI | 18.14 |
| ENSG00000055118.14 | KCNH2 | 0.19 | TI PI | 36.92 |
| ENSG00000057294.14 | PKP2 | 3.06 | AT TI PI | 41.63 |
| ENSG00000069431.11 | ABCC9 | 16.17 | AT TI PI | 7.49 |
| ENSG00000075213.10 | SEMA3A | 0.04 | PI | 0.74 |

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Tissue of Interest (TI)

Heart Atrial Appendage

Accessible Tissue (AT)

Muscle Skeletal

Venn Diagram of Expressed Transcripts

AT = Accessible Tissue

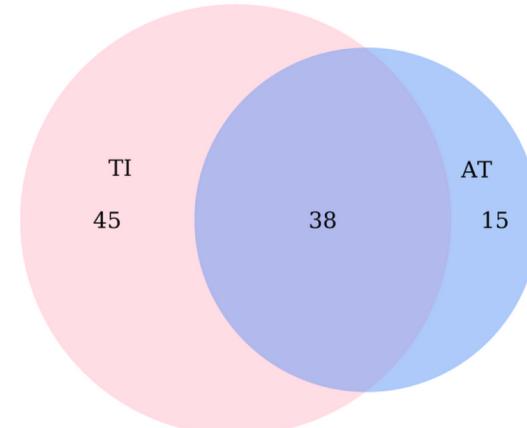
TI = Tissue of Interest

Choose Phenotype Correlation Analysis Expression Analysis

Transcript Analysis

Single Gene Analysis

About



Overlap of transcripts corresponding to genes included in the inquired gene list (median TPM >1.5) in AT and TI

Download Venn diagram (png)



Show 5 entries

Search:

List of Transcripts with Median Transcripts-level TPM by tissue

| Gene ID | Ensembl Gene ID | Ensembl Transcript ID | Muscle Skeletal | Type | Heart Atrial Appendage |
|---------|-------------------|-----------------------|-----------------|-------|------------------------|
| ABCC9 | ENSG0000069431.11 | ENST00000261200.8 | 9.38 | AT TI | 5.06 |
| ABCC9 | ENSG0000069431.11 | ENST00000326684.8 | 2.18 | AT | 0.00 |
| ABCC9 | ENSG0000069431.11 | ENST00000544039.5 | 3.50 | AT | 0.00 |
| AKAP9 | ENSG0000127914.16 | ENST00000356239.7 | 2.11 | AT | 0.00 |
| AKAP9 | ENSG0000127914.16 | ENST00000394534.6 | 4.79 | AT TI | 2.09 |

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Download median TPM values in csv format





Enter Gene ID

KCNE3 KCNE5 SCN10A SEMA3A SCN3B KCNE1 KCND2

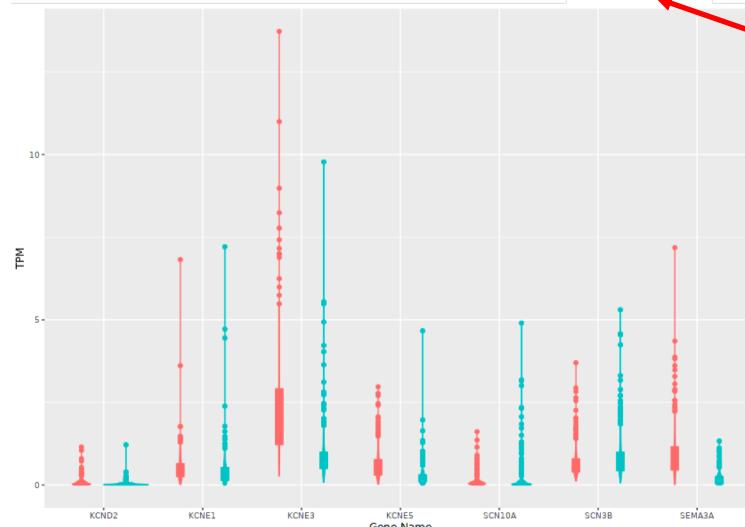
Select Tissue

Heart Left Ventricle Heart Atrial Appendage

Select the gene of interest included in the initial list (see choose phenotype)

Select the tissue to inquire expression

Choose Phenotype Correlation Analysis Expression Analysis Transcript Analysis Single Gene Analysis About



Explore expression of particular genes

Show 10 entries

Data Source: GTEx Analysis Release V8
Displayed numbers represent gene-level TPM by tissue

| Gene Name | Tissue | TPM |
|-----------|------------------------|---------|
| KCND2 | Heart Atrial Appendage | 0.2462 |
| KCND2 | Heart Atrial Appendage | 0.04927 |
| KCND2 | Heart Atrial Appendage | 0.1196 |
| KCND2 | Heart Atrial Appendage | 0.02565 |
| KCND2 | Heart Atrial Appendage | 0.03462 |
| KCND2 | Heart Atrial Appendage | 0.03476 |
| KCND2 | Heart Atrial Appendage | 0 |
| KCND2 | Heart Atrial Appendage | 0.2967 |
| KCND2 | Heart Atrial Appendage | 0.03262 |
| KCND2 | Heart Atrial Appendage | 0.1702 |

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Download TPM values in all samples from the selected tissue/tissues (csv format)

