

## **Supplementary Note**

### **Protein localization imaging of 335 individual clones isolated from the cell pool**

### **Pooled protein tagging, cellular imaging and in situ sequencing for monitoring drug action in real time**

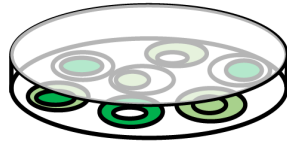
Andreas Reicher<sup>1</sup>, Anna Koren<sup>1</sup>, Stefan Kubicek<sup>1, 2, \*</sup>

<sup>1</sup>CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences. Lazarettgasse 14, 1090 Vienna, Austria.

<sup>2</sup>Christian Doppler Laboratory for Chemical Epigenetics and Antiinfectives, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, 1090 Vienna, Austria.

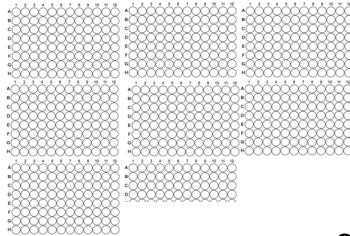
\* Correspondence to: Stefan Kubicek, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Lazarettgasse 14 AKH BT 25.3 1090 Vienna, Austria. Phone +43-1/40160-70 036, Fax +43-1/40160-970 000, E-mail: [skubicek@cemm.oeaw.ac.at](mailto:skubicek@cemm.oeaw.ac.at)

Pool of GFP-tagged cells  
(one sgRNA per cell, ~953  
different genes)



Single cell dilution

Imaging and NGS-based multiplex  
sgRNA amplicon sequencing  
(720 clonal cell lines)

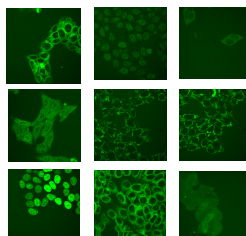


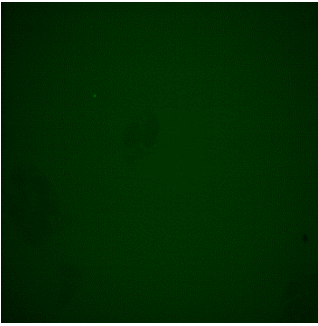
Clones excluded from  
further analysis:

- Confident annotation not possible due to no or very few sequencing reads in the corresponding well (182).
- Two or more sgRNAs detected in a single well due to multiple clones or clones expressing multiple sgRNAs (106).
- Sequencing reads, but no cells in any of the five fields of view that were imaged (58).
- No fluorescence detected in cells (39).

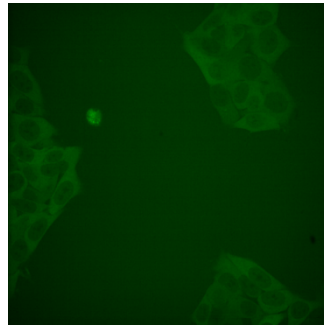
Comparison of the subcellular protein  
localization with annotations from  
The Human Protein Atlas  
(335 clonal cell lines)

Images of 335 clonal cell  
lines, covering 264 different  
introns of 212 proteins

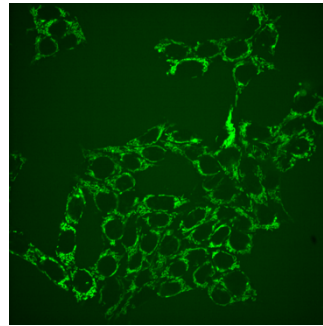




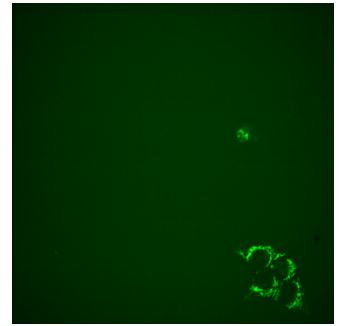
ABAT, Intron 12\_1  
Mitochondria (weak)  
Human Protein Atlas:  
Mitochondria  
M\_id



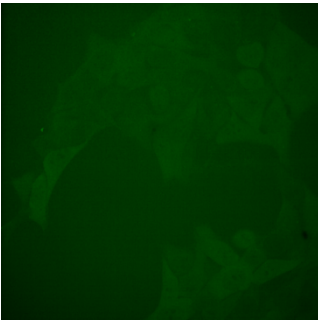
ACAA1, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Peroxisomes  
C\_dis



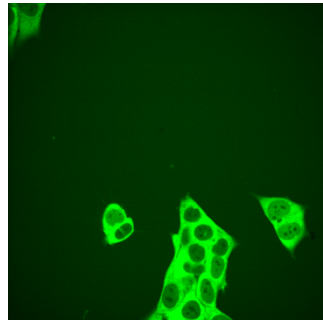
ACAT1, Intron 1\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



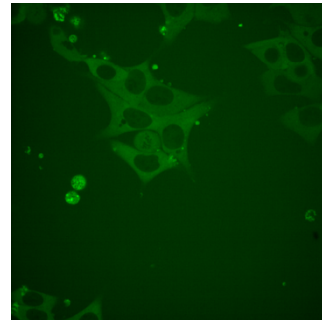
ACAT1, Intron 5\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



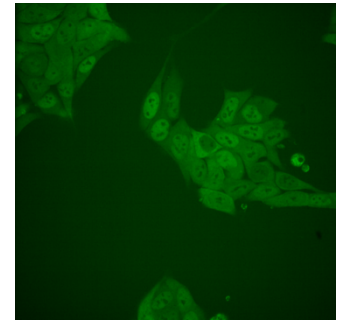
ACBD7, Intron 1\_3  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Vesicles, Cytosol  
C\_sim



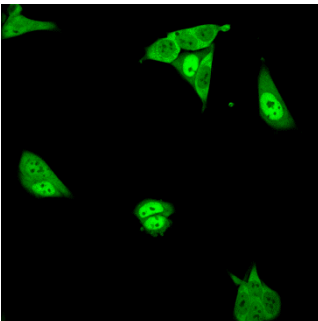
ACLY, Intron 7\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol,  
Nucleoplasm; C\_id



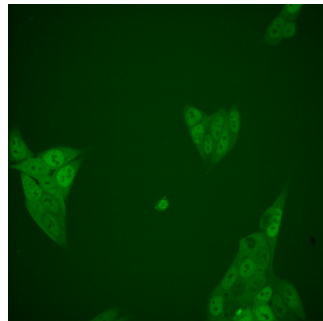
ACLY, Intron 10\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol,  
Nucleoplasm, C\_id



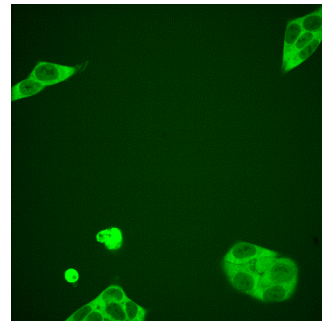
ACLY, Intron 22\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol,  
Nucleoplasm, C\_id



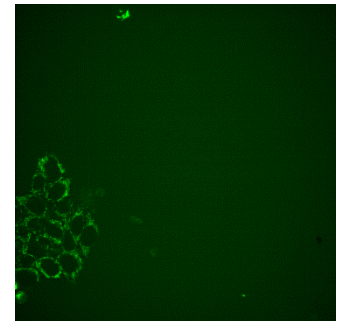
ACLY, Intron 22\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol,  
Nucleoplasm, C\_id



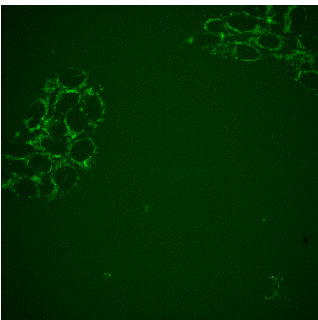
ACLY, Intron 22\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol,  
Nucleoplasm, C\_id



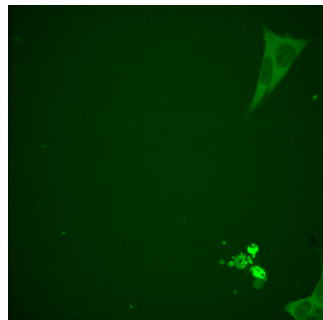
ACLY, Intron 24\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol,  
Nucleoplasm, C\_id



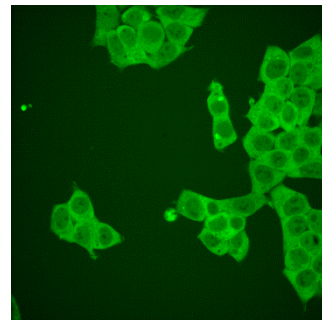
ACO2, Intron 8\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



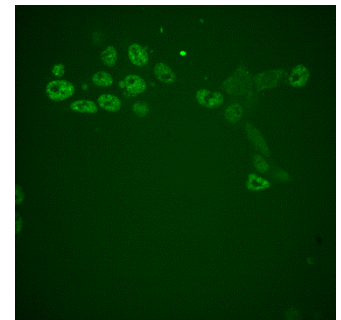
ACO2, Intron 15\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



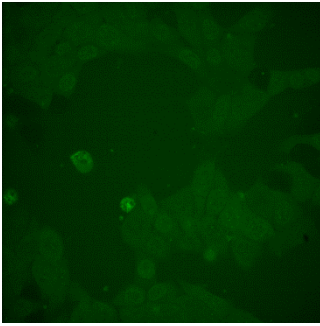
ACOT7, Intron 2\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Nucleoplasm  
C\_id



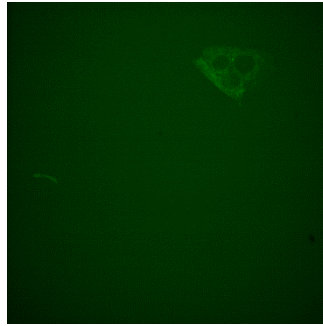
ACOT7, Intron 2\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Nucleoplasm  
C\_id



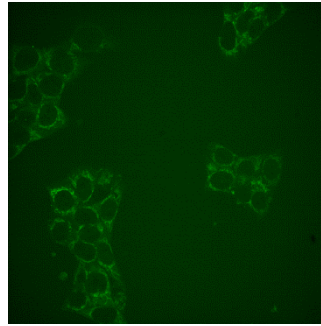
AKAP8L, Intron 13\_1  
Nucleus  
Human Protein Atlas: Nuclear  
speckles  
N\_id



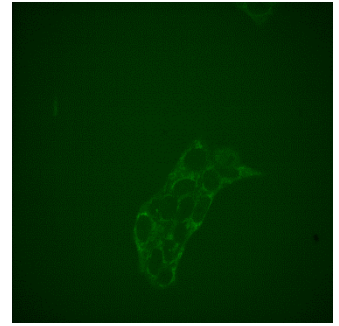
AKR1C2, Intron 5\_1  
 Cytoplasm, Nucleus  
 Human Protein Atlas:  
 Nucleoplasm, Cytosol, Nucleoli  
 fibrillary center, ER, C\_sim



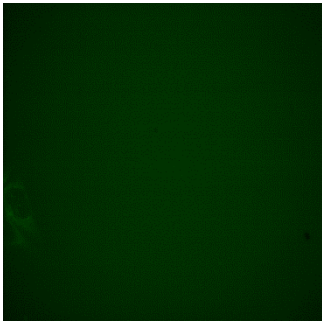
ALDH1A3, Intron 7\_1  
 ER  
 Human Protein Atlas:  
 Nucleoplasm, Cytosol  
 ER\_dis



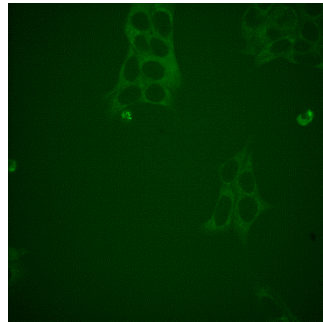
ALDH7A1, Intron 1\_1  
 Mitochondria, Cytoplasm  
 Human Protein Atlas:  
 Mitochondria, Cytosol  
 M\_id



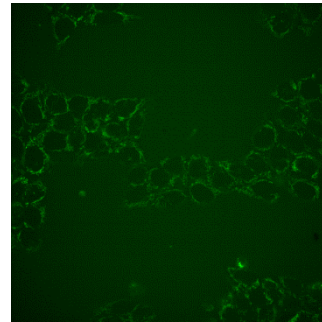
ALDH7A1, Intron 1\_1  
 Mitochondria, Cytoplasm  
 Human Protein Atlas:  
 Mitochondria, Cytosol  
 M\_id



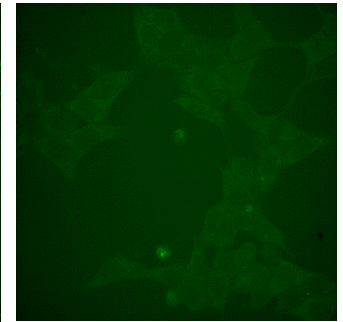
ALDH9A1, Intron 6\_1  
 Cytoplasm, Mitochondria  
 Human Protein Atlas: Cytosol  
 C\_sim



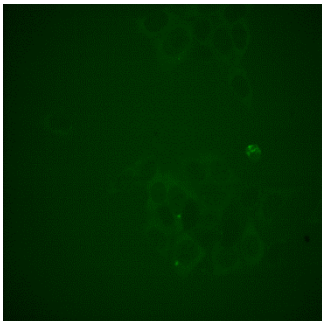
ALDH9A1, Intron 6\_1  
 Cytoplasm, Mitochondria  
 Human Protein Atlas: Cytosol  
 C\_sim



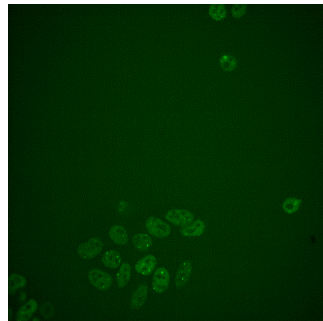
ALDH18A1, Intron 12\_1  
 Mitochondria  
 Human Protein Atlas:  
 Mitochondria  
 M\_id



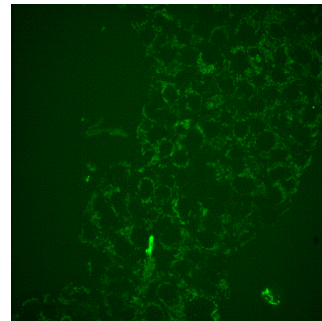
APOO, Intron 1\_1  
 Cytoplasm, Nucleus,  
 Mitochondria  
 Human Protein Atlas:  
 Mitochondria, Cytosol, M\_sim



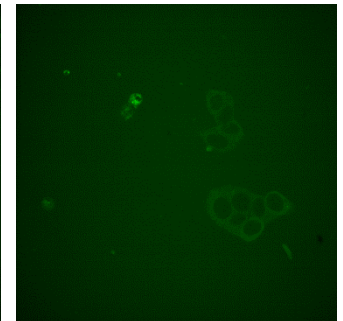
APRT, Intron 3\_1  
 Cytoplasm, Nucleus  
 Human Protein Atlas:  
 Nucleoplasm, Cytosol  
 C\_id



ARG1, Intron 4\_1  
 Nucleus  
 Human Protein Atlas:  
 unknown  
 N\_unk



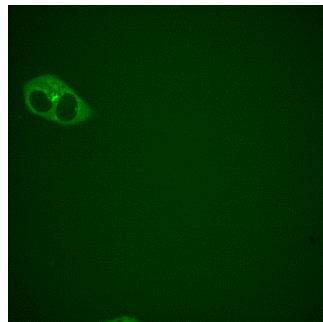
ARG2, Intron 4\_1  
 Mitochondria  
 Human Protein Atlas:  
 Mitochondria  
 M\_id



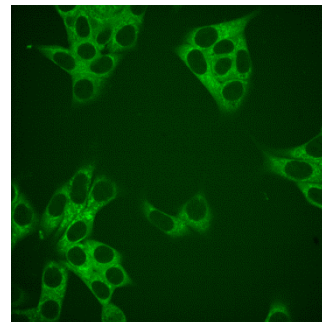
ASNS, Intron 8\_1  
 Cytoplasm  
 Human Protein Atlas: Cytosol  
 C\_id



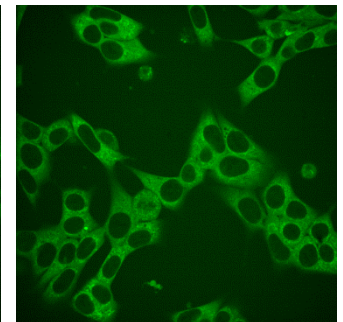
ASRGL1, Intron 3\_1  
 Cytoplasm, Nucleus  
 Human Protein Atlas:  
 Microtubules, Nucleoplasm  
 C\_id



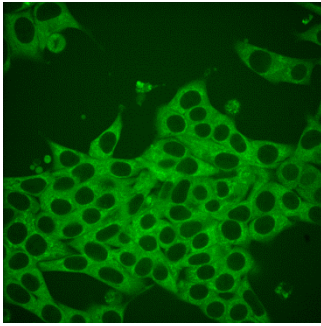
ATAD3A, Intron 4\_1  
 Cytoplasm, Mitochondria  
 Human Protein Atlas:  
 Mitochondria  
 C\_sim



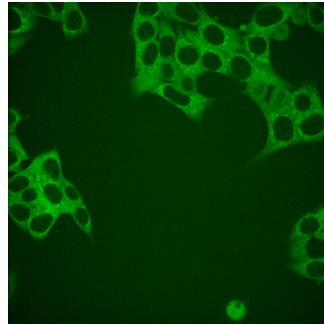
ATAD3A, Intron 4\_1  
 Cytoplasm, Mitochondria  
 Human Protein Atlas:  
 Mitochondria  
 C\_sim



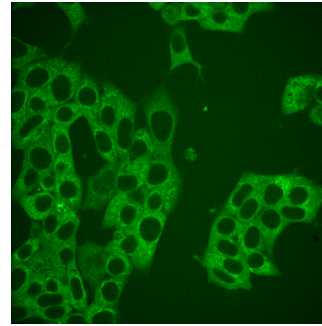
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 Cytoplasm, Mitochondria  
 Human Protein Atlas:  
 Mitochondria  
 C\_sim



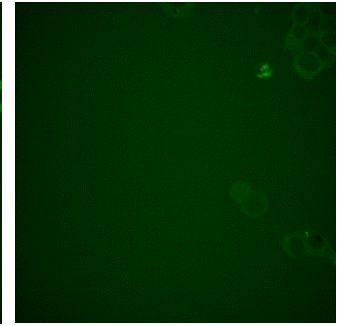
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Cytoplasm, Mitochondria  
Human Protein Atlas:  
Mitochondria  
C\_sim



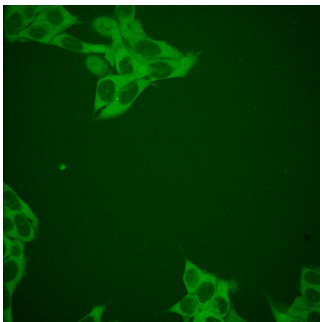
ATAD3A, Intron 4\_1  
Cytoplasm, Mitochondria  
Human Protein Atlas:  
Mitochondria  
C\_sim



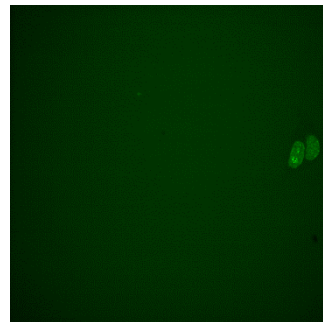
ATAD3A, Intron 4\_1  
Cytoplasm, Mitochondria  
Human Protein Atlas:  
Mitochondria  
C\_sim



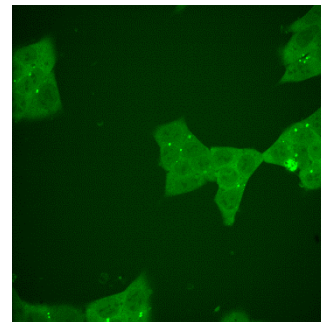
ATAD3B, Intron 7\_1  
Cytoplasm  
Human Protein Atlas:  
Mitochondria  
C\_dis



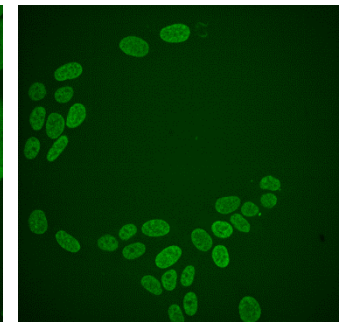
ATIC, Intron 14\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol  
C\_sim



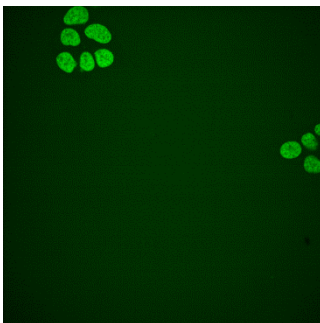
ATRX, Intron 15\_1  
Nucleus  
Human Protein Atlas: Nuclear  
bodies  
N\_id



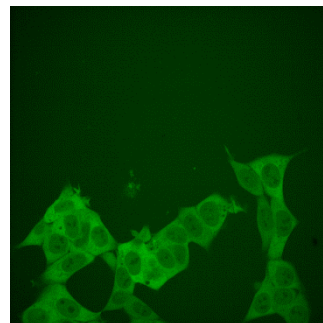
AURKA, Intron 3\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Centrosome,  
Cytosol, C\_id



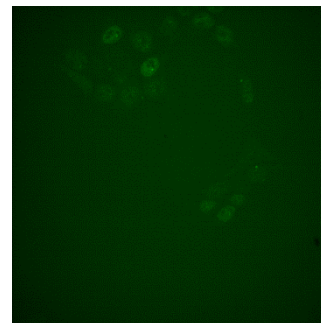
BAZ1A, Intron 7\_1  
Nucleus  
Human Protein Atlas: ER  
N\_dis



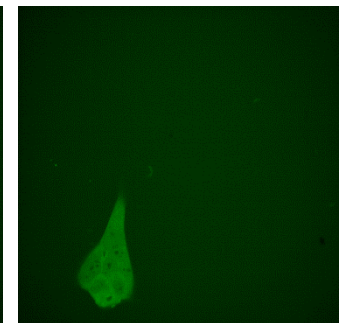
BAZ1B, Intron 17\_1  
Nucleus  
Human Protein Atlas: Nuclear  
bodies  
N\_id



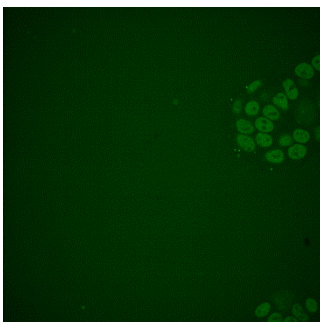
BCAT1, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



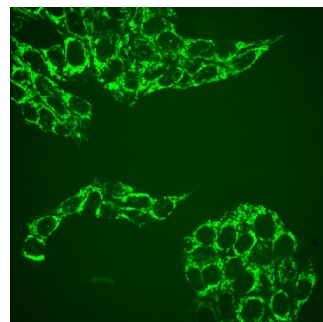
BCAT2, Intron 2\_1  
Nucleus  
Human Protein Atlas:  
Mitochondria  
N\_dis



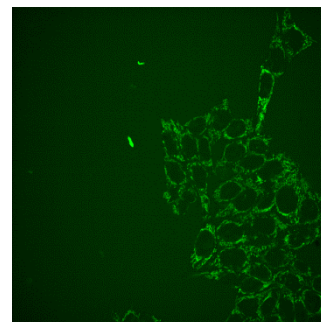
BLVRA, Intron 2\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol  
C\_sim



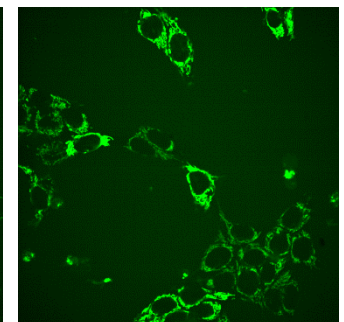
BRD8, Intron 13\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Mitochondria  
N\_sim



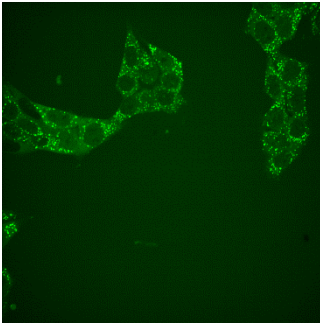
CA4, Intron 5\_1  
Mitochondria  
Human Protein Atlas: Vesicles  
M\_dis



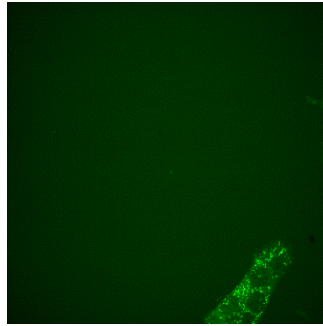
CARS2, Intron 9\_1  
Mitochondria  
Human Protein Atlas:  
Nucleoplasm, Mitochondria  
M\_sim



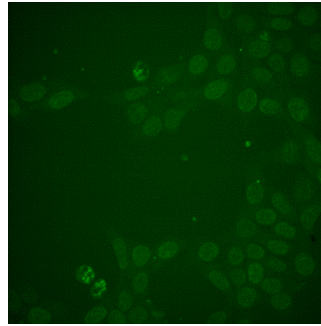
CARS2, Intron 13\_1  
Mitochondria  
Human Protein Atlas:  
Nucleoplasm, Mitochondria  
M\_sim



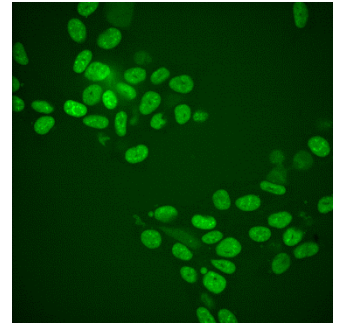
CAT, Intron 1\_1  
Vesicles, Cytoplasm, Nucleus  
Human Protein Atlas: Vesicles  
C\_sim



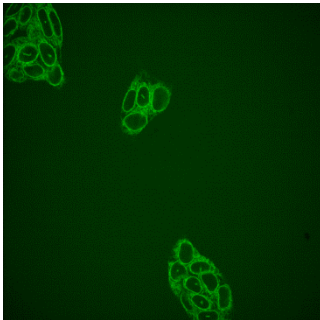
CAT, Intron 1\_1  
Vesicles, Cytoplasm, Nucleus  
Human Protein Atlas: Vesicles  
C\_sim



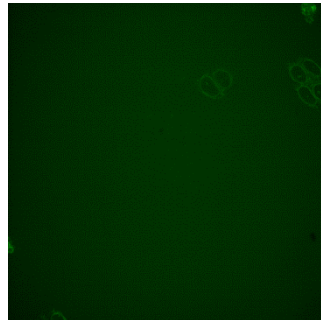
CBX8, Intron 1\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm  
N\_sim



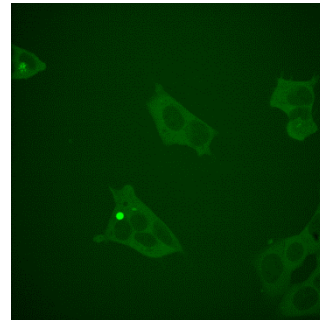
CDC73, Intron 7\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_sim



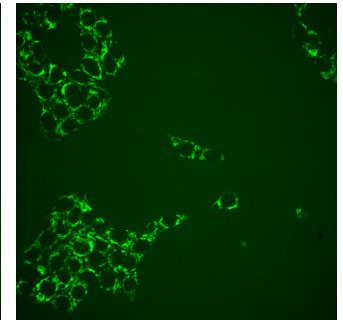
CERS2, Intron 3\_1  
ER, Nuclear membrane  
Human Protein Atlas: Nuclear  
membrane, ER  
ER\_id



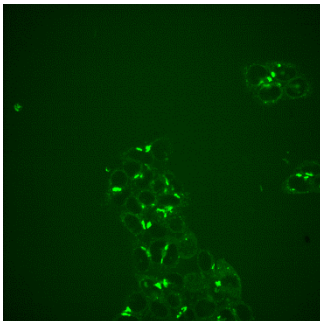
CERS2, Intron 5\_1  
ER, Nuclear membrane  
Human Protein Atlas: Nuclear  
membrane, ER  
ER\_id



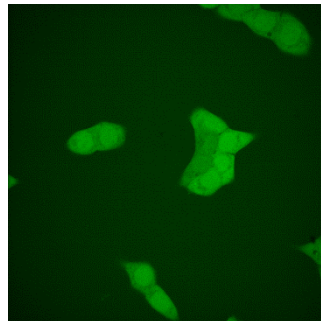
CNDP2, Intron 8\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
C\_id



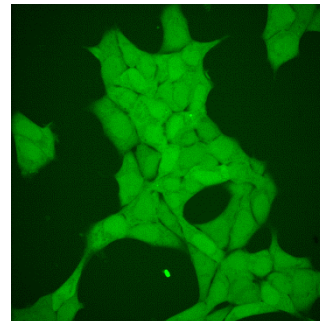
COQ10A, Intron 3\_1  
Mitochondria  
Human Protein Atlas: Cytosol,  
ER, Golgi  
M\_dis



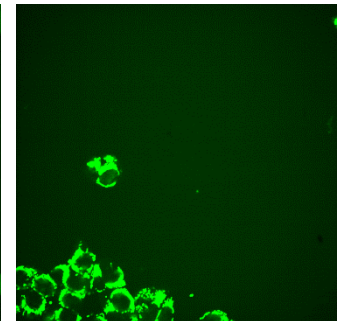
COX6C, Intron 2\_2  
other  
Human Protein Atlas:  
Mitochondria  
C\_dis



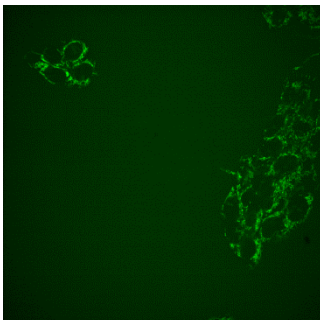
COX7A2, Intron 2\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



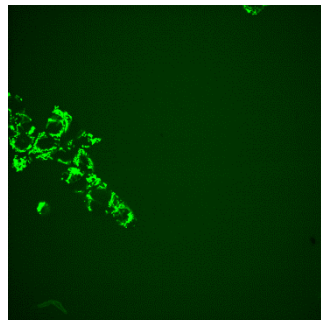
COX7A2, Intron 2\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



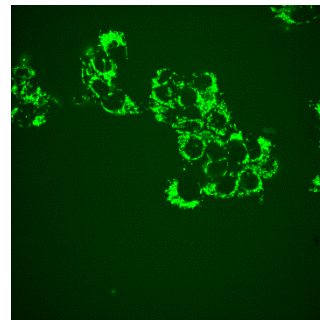
COX8A, Intron 1\_2  
Mitochondria  
Human Protein Atlas:  
unknown  
M\_unk



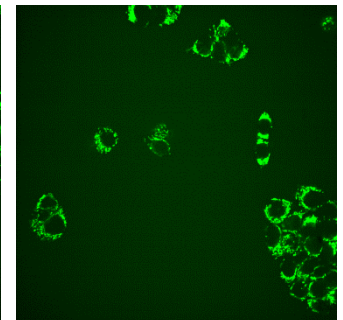
COX15, Intron 1\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



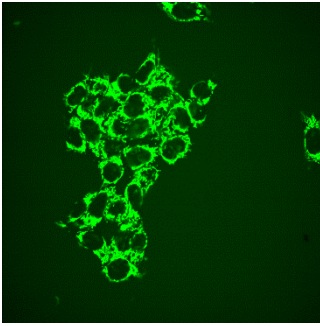
CS, Intron 6\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



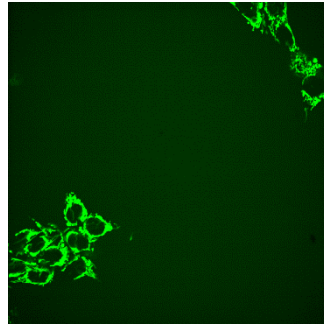
CS, Intron 6\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



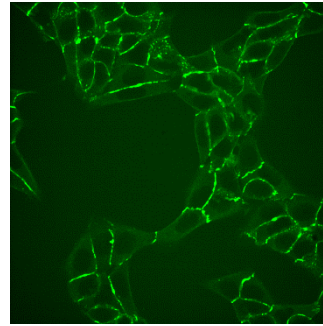
CS, Intron 6\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



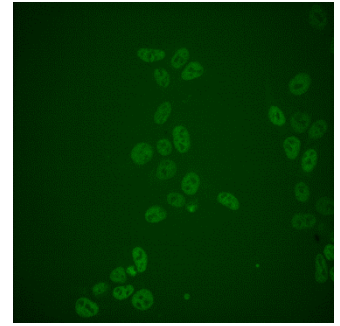
CS, Intron 10\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



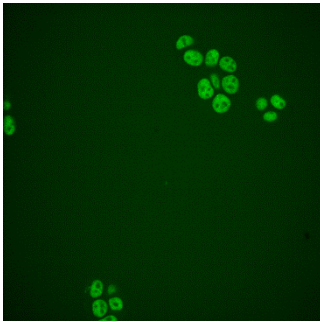
CS, Intron 10\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



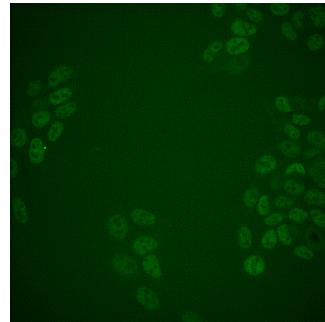
CTNNB1, Intron 4\_1  
Plasma membrane,  
Cytoplasm  
Human Protein Atlas: Plasma  
membrane, C\_id



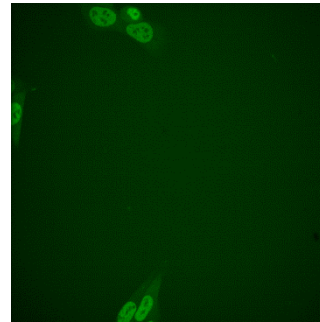
CTR9, Intron 1\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



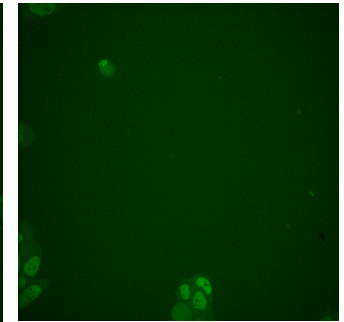
CTR9, Intron 1\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



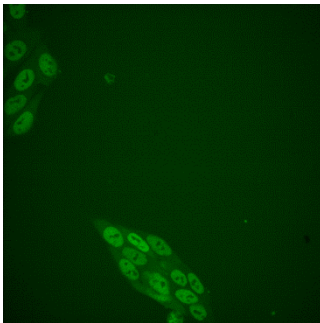
CTR9, Intron 1\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



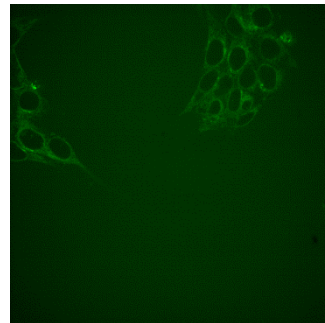
CUL4B, Intron 11\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



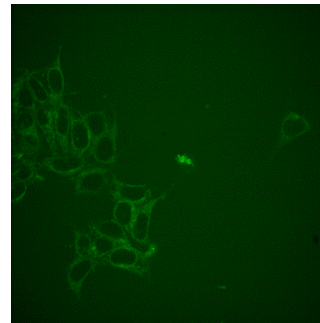
CUL4B, Intron 20\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



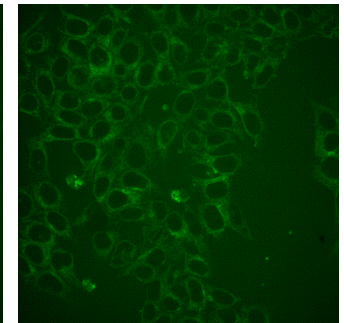
CUL4B, Intron 20\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



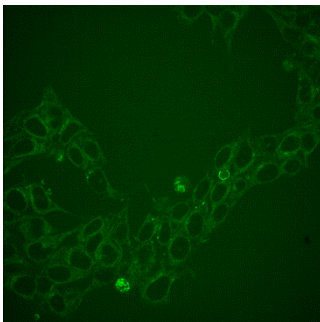
CYB5R3, Intron 2\_1  
ER  
Human Protein Atlas: ER  
ER\_id



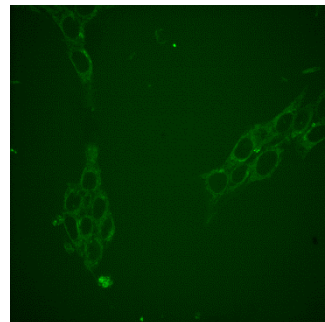
CYB5R3, Intron 2\_1  
ER  
Human Protein Atlas: ER  
ER\_id



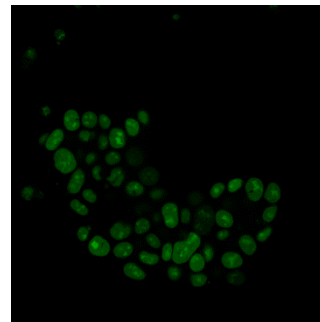
CYB5R3, Intron 2\_1  
ER  
Human Protein Atlas: ER  
ER\_id



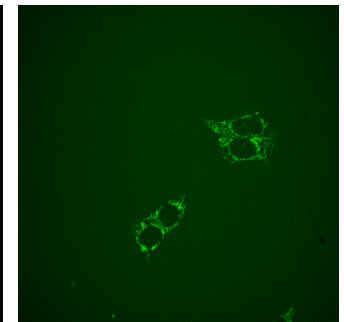
CYB5R3, Intron 2\_1  
ER  
Human Protein Atlas: ER  
ER\_id



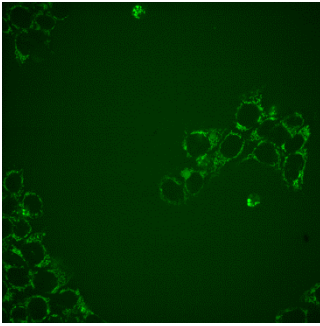
CYB5R3, Intron 2\_1  
ER  
Human Protein Atlas: ER  
ER\_id



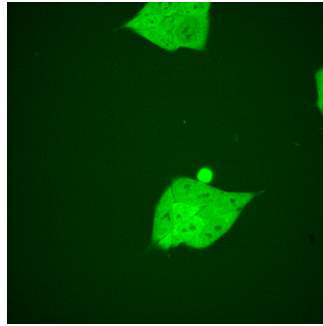
DAGLA, Intron 7\_1  
Nucleus  
Human Protein Atlas:  
unknown  
N\_unk



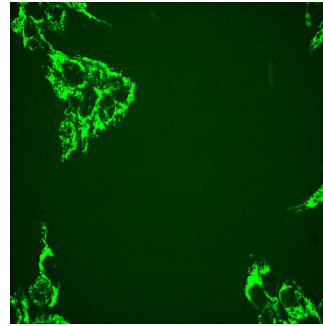
DARS2, Intron 9\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoplasm  
M\_sim



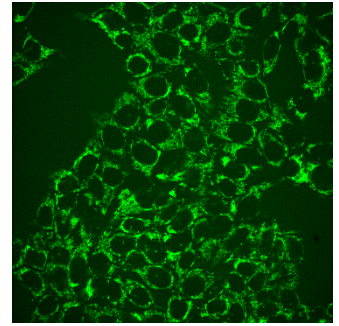
DARS2, Intron 9\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoplasm  
M\_sim



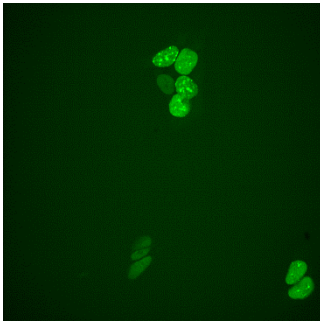
DDB1, Intron 18\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



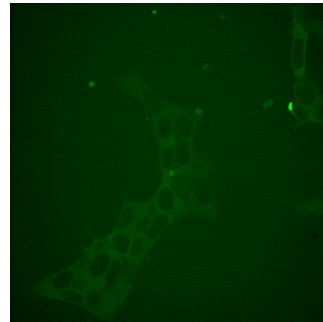
DLAT, Intron 4\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



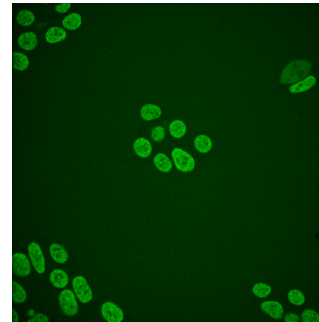
DLST, Intron 13\_1  
Mitochondria  
Human Protein Atlas:  
unknown  
M\_unk



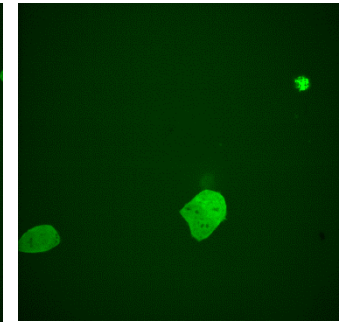
DNMT1, Intron 21\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



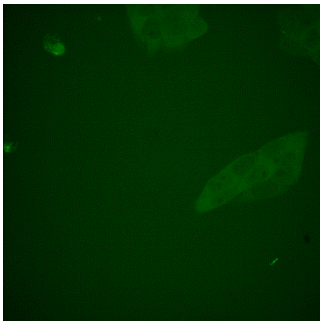
DOT1L, Intron 4\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_N



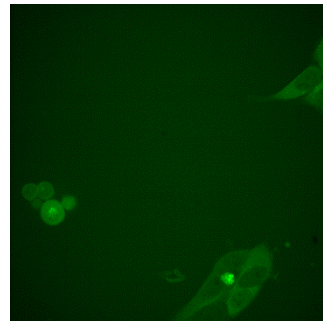
DPF2, Intron 5\_2  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



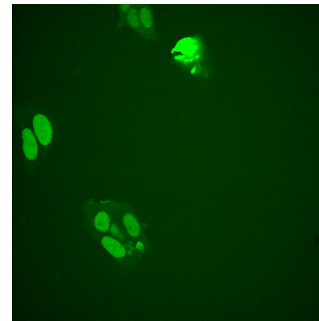
DPYSL2, Intron 7\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Plasma membrane  
C\_sim



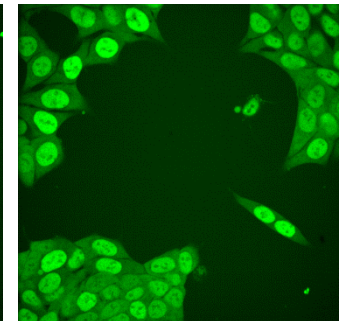
DPYSL2, Intron 7\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Plasma membrane  
C\_sim



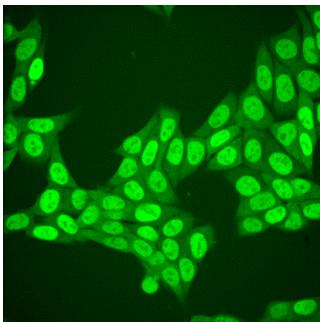
DPYSL5, Intron 11\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
C\_id



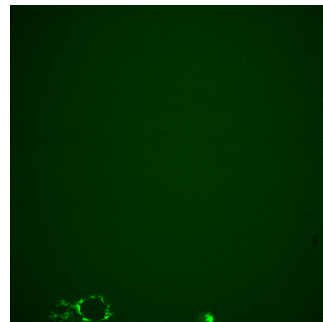
DR1, Intron 3\_3  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm  
N\_sim



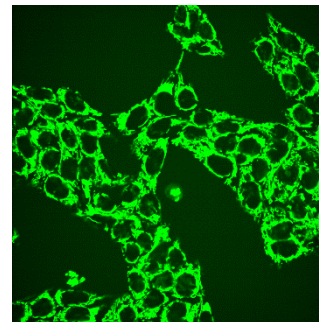
DR1, Intron 3\_3  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm  
N\_sim



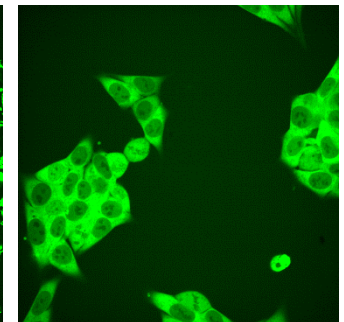
DR1, Intron 3\_3  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm  
N\_sim



ECH1, Intron 9\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id

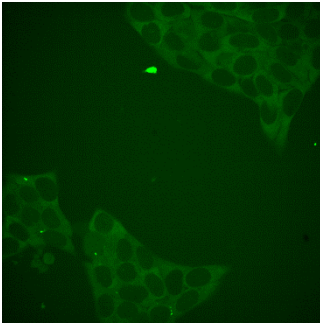


ECHS1, Intron 7\_2  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id

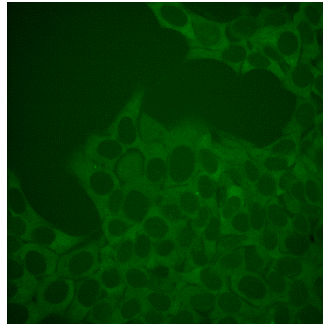


ENO1, Intron 6\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol  
C\_sim

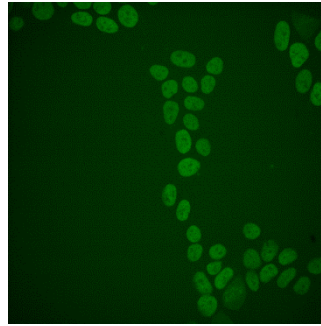




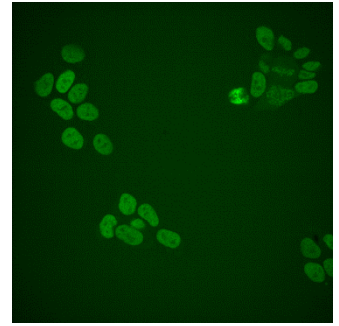
ERI1, Intron 1\_1  
Cytoplasm  
Human Protein Atlas:  
Microtubules, Vesicles  
C\_id



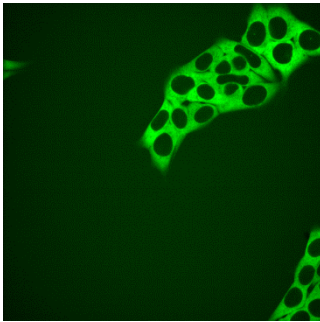
ERI1, Intron 1\_1  
Cytoplasm  
Human Protein Atlas:  
Microtubules, Vesicles  
C\_id



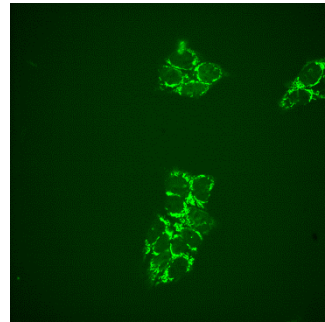
EZH2, Intron 4\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



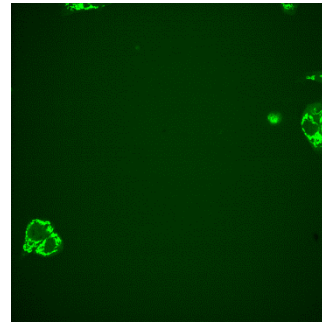
EZH2, Intron 4\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



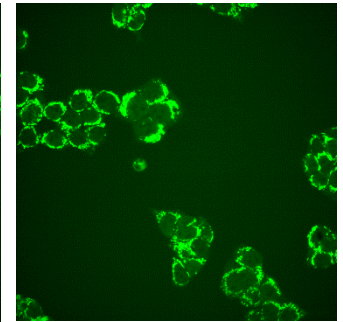
FASN, Intron 22\_1  
Cytoplasm  
Human Protein Atlas: Plasma  
membrane, Cytosol  
C\_id



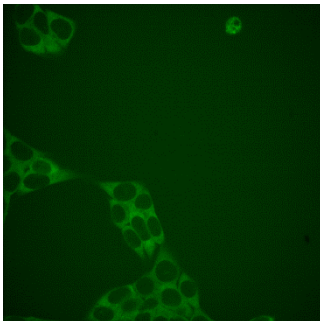
FH, Intron 3\_1  
Mitochondria, Nucleus,  
Cytoplasm  
Human Protein Atlas:  
Mitochondria, M\_sim



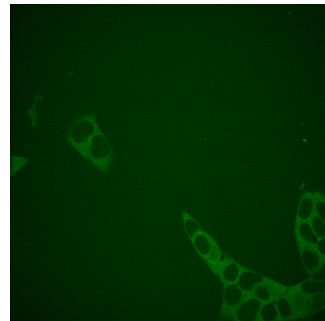
FH, Intron 5\_1  
Mitochondria, Nucleus,  
Cytoplasm  
Human Protein Atlas:  
Mitochondria, M\_sim



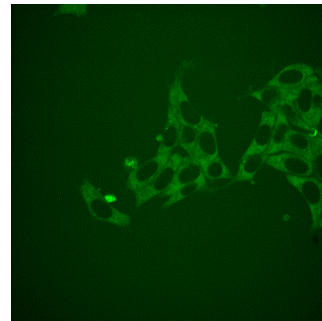
FH, Intron 8\_1  
Mitochondria, Nucleus,  
Cytoplasm  
Human Protein Atlas:  
Mitochondria, M\_sim



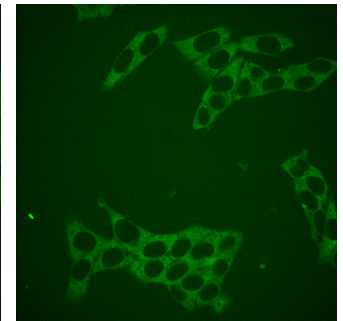
FMR1, Intron 8\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



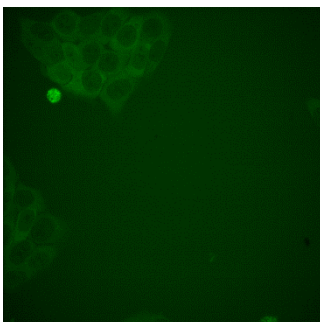
FMR1, Intron 8\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



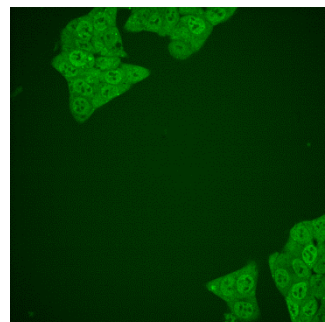
FMR1, Intron 12\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



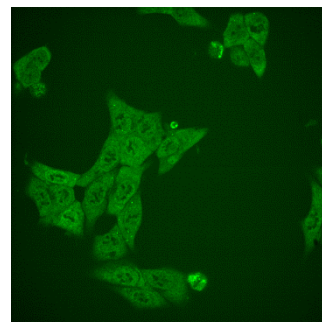
FMR1, Intron 12\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



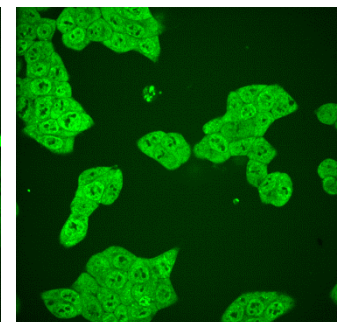
FN3K, Intron 4\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Mitochondria  
C\_dis



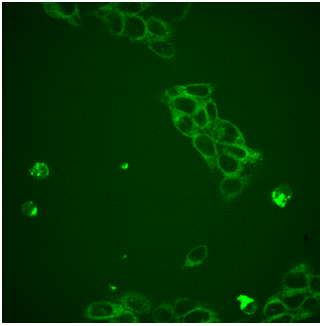
FUBP3, Intron 9\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
C\_id



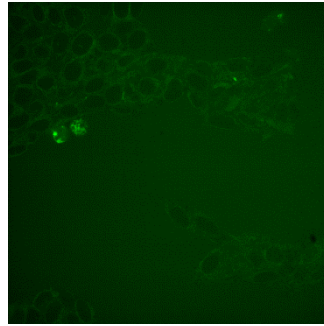
FUBP3, Intron 13\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
C\_id



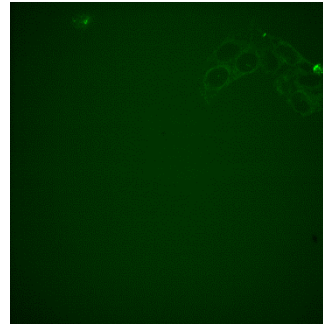
FUBP3, Intron 13\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
C\_id



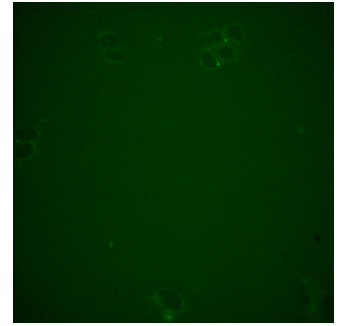
GANAB, Intron 20\_1  
ER  
Human Protein Atlas: ER  
ER\_id



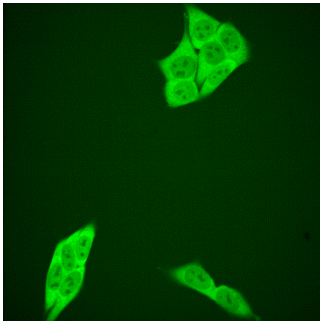
GANAB, Intron 21\_1  
ER  
Human Protein Atlas: ER  
ER\_id



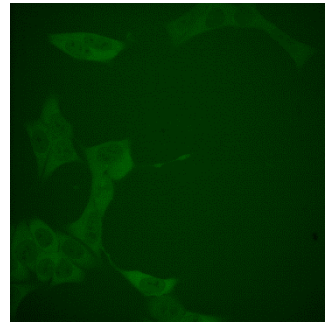
GANAB, Intron 21\_1  
ER  
Human Protein Atlas: ER  
ER\_id



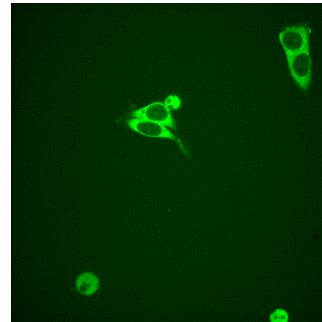
GANAB, Intron 21\_1  
ER  
Human Protein Atlas: ER  
ER\_id



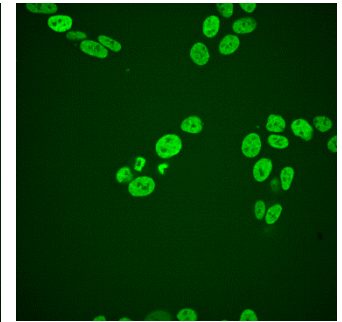
GAPDH, Intron 3\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol, Nuclear  
membrane, Vesicles, C\_id



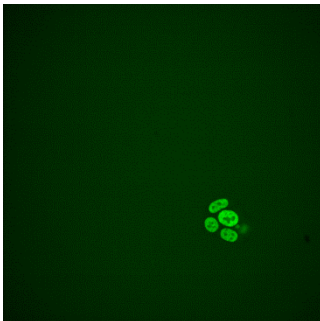
GAPDH, Intron 3\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol, Nuclear  
membrane, Vesicles, C\_id



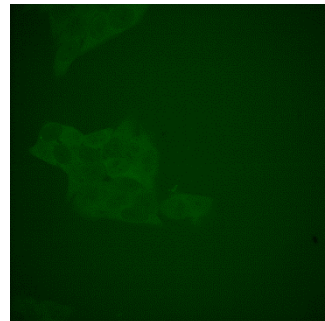
GARS, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol  
C\_sim



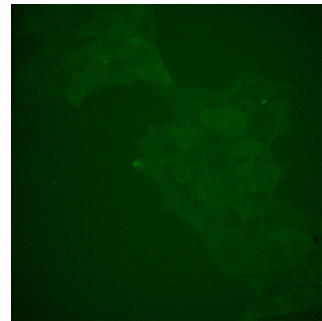
GATAD2A, Intron 7\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



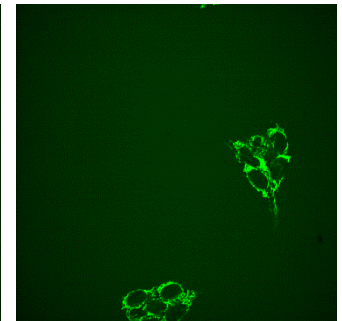
GATAD2A, Intron 7\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



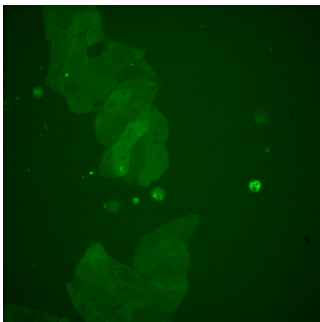
GCLM, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol, Plasma  
membrane C\_id



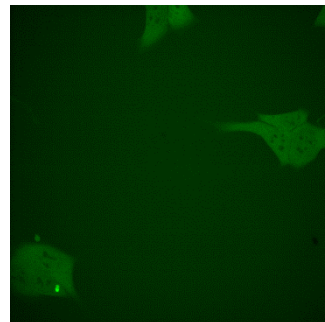
GCLM, Intron 2\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol, Plasma  
membrane C\_id



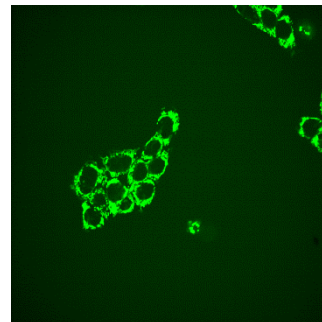
GCSH, Intron 2\_3  
Mitochondria  
Human Protein Atlas: Vesicles  
M\_dis



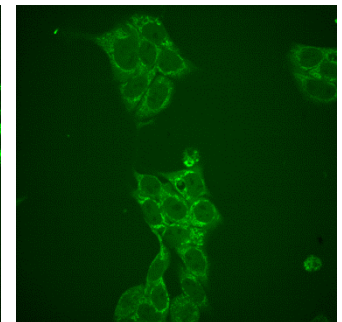
GLO1, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Plasma  
membrane, Cytosol  
C\_id



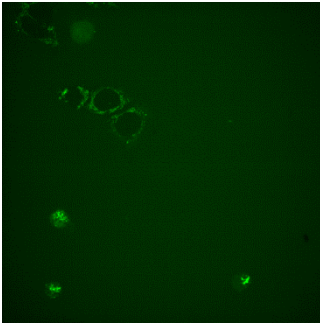
GLO1, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Plasma  
membrane, Cytosol  
C\_id



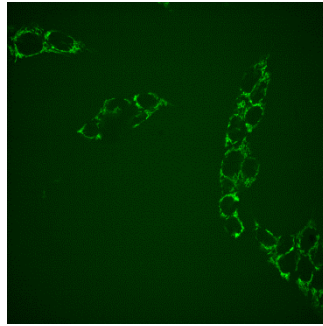
GLOD4, Intron 1\_1  
Mitochondria  
Human Protein Atlas: Cytosol,  
Nucleoplasm, Nucleoli  
M\_dis



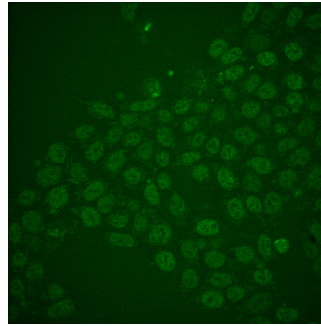
GLOD4, Intron 9\_1  
Mitochondria, Cytoplasm,  
Nucleus  
Human Protein Atlas: Cytosol,  
Nucleoplasm, Nucleoli  
M\_sim



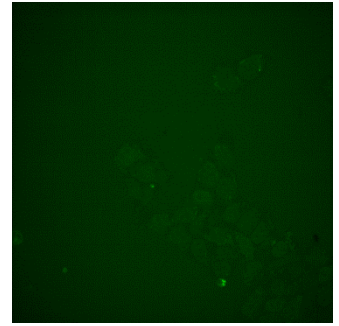
GLS, Intron 4\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



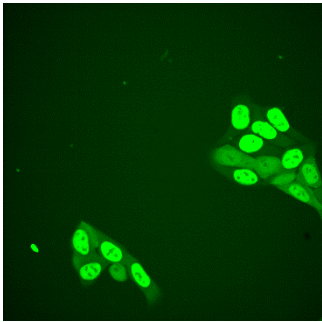
GLS, Intron 13\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



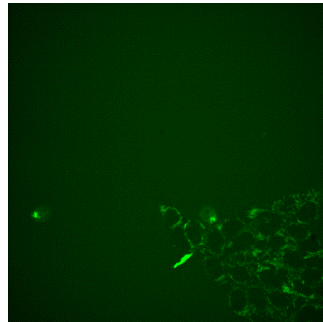
GLYR1, Intron 10\_1  
Nucleus, Mitochondria  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_sim



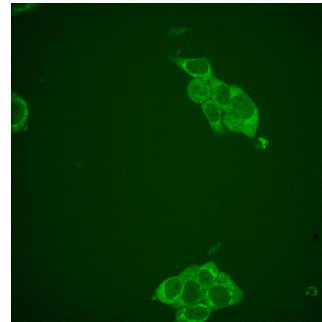
GLYR1, Intron 12\_1  
Nucleus, Mitochondria  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_sim



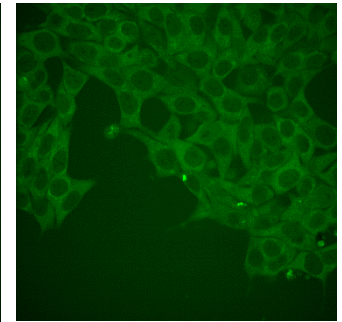
GMPS, Intron 7\_1  
Nucleus, Cytoplasm  
Human Protein Atlas: Cytosol  
N\_sim



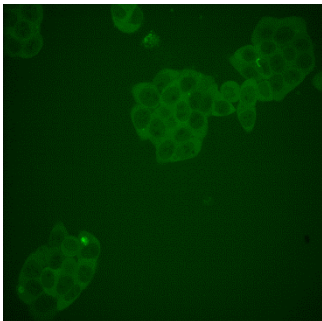
GPD2, Intron 2\_1  
Mitochondria  
Human Protein Atlas:  
unknown  
M\_unk



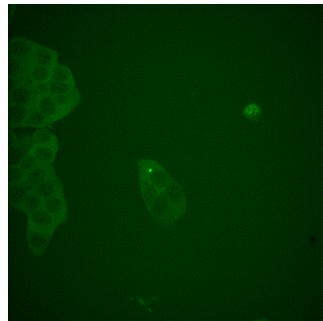
GSR, Intron 1\_1  
Mitochondria, Cytoplasm,  
Nucleus  
Human Protein Atlas: Cytosol,  
Plasma membrane, M\_dis



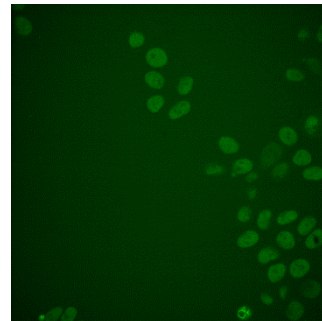
GSR, Intron 4\_1  
Mitochondria, Cytoplasm,  
Nucleus  
Human Protein Atlas:  
Cytosol, Plasma membrane  
M\_sim



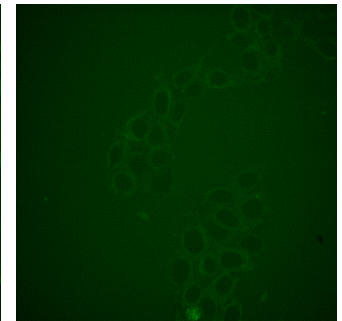
GSS, Intron 2\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



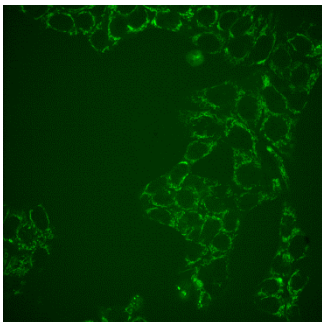
GSS, Intron 2\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



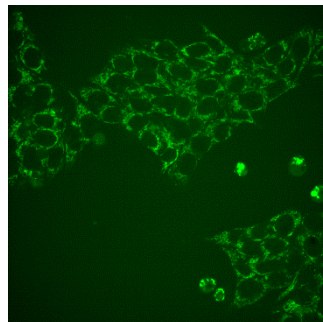
GTF3C4, Intron 1\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Mitochondria  
N\_sim



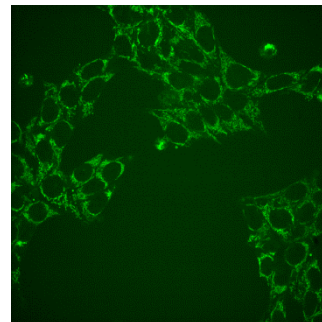
GUSB, Intron 1\_1  
ER  
Human Protein Atlas: Vesicles  
ER\_dis



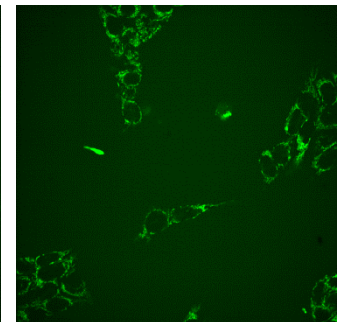
HADH, Intron 2\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



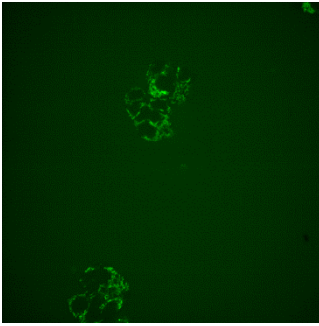
HADH, Intron 2\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



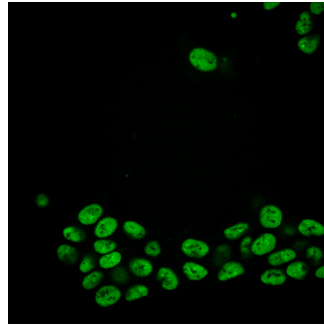
HADH, Intron 2\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



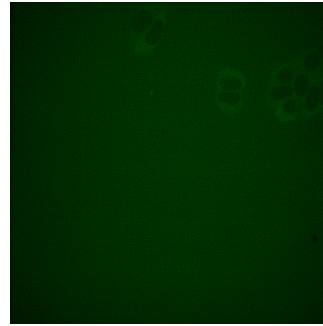
HADHA, Intron 14\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



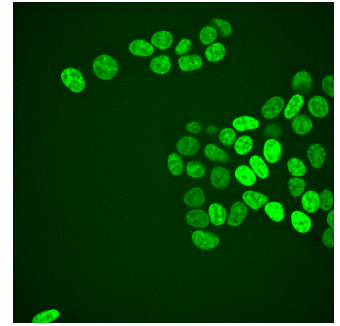
HADHA, Intron 15\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



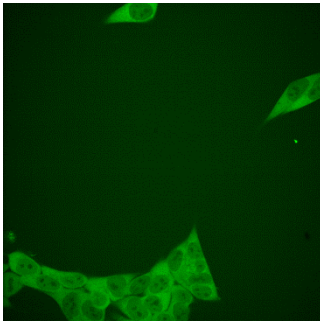
HCFC1, Intron 18\_1  
Nucleus  
Human Protein Atlas:  
Mitochondria, Nucleoplasm  
N\_sim



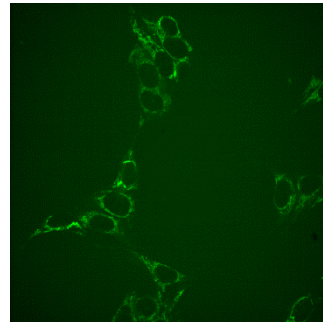
HDAC6, Intron 7\_1  
Cytoplasm  
Human Protein Atlas:  
Nucleoplasm  
C\_dis



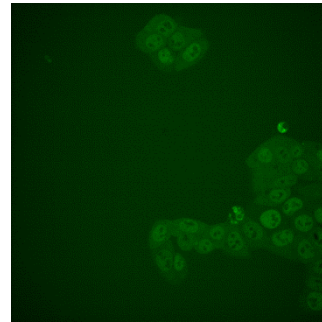
HMGA2, Intron 1\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Nucleoli  
N\_id



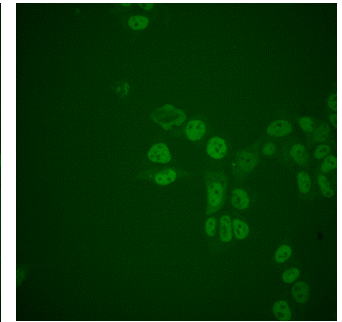
HSD17B10, Intron 2\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



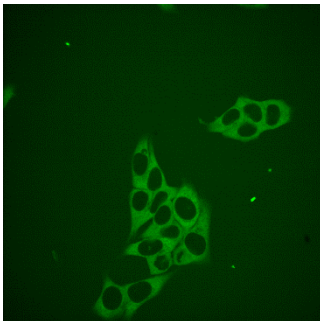
HSD17B10, Intron 4\_1  
Mitochondria  
Human Protein Atlas:  
unknown  
M\_unk



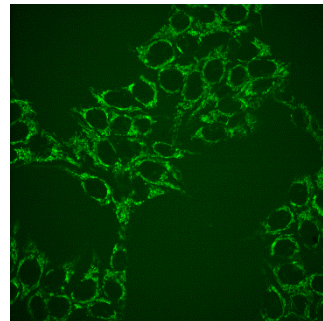
HUWE1, Intron 8\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_id



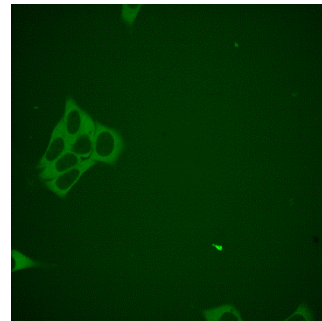
HUWE1, Intron 12\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_id



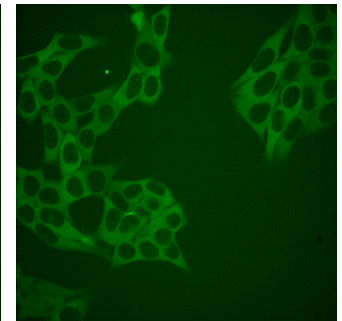
IARS, Intron 1\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



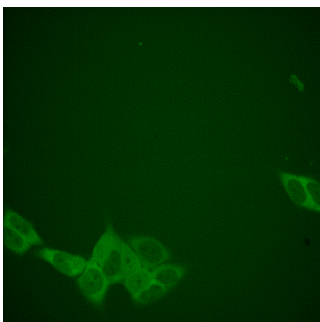
IARS2, Intron 1\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



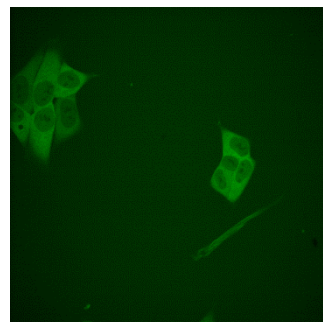
IDE, Intron 13\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



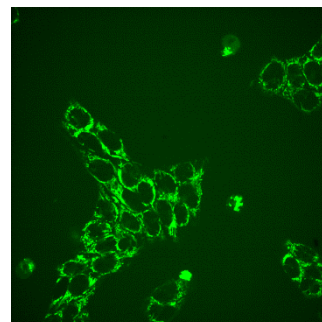
IDE, Intron 13\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



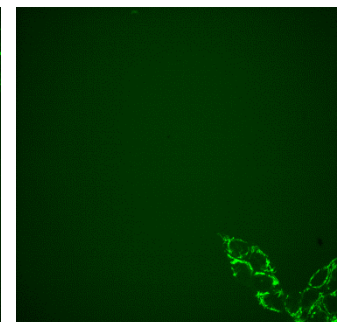
IDH1, Intron 4\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Nuclear  
bodies, Cytosol  
C\_id



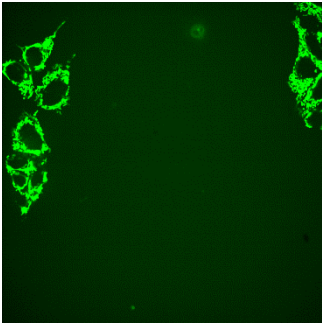
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Cytoplasm, Nucleus  
Human Protein Atlas: Nuclear  
bodies, Cytosol  
C\_id



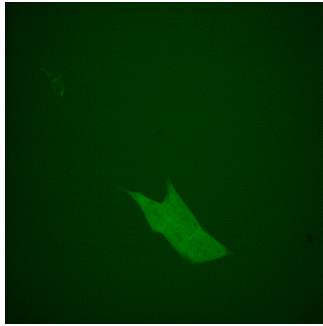
IDH3A, Intron 2\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



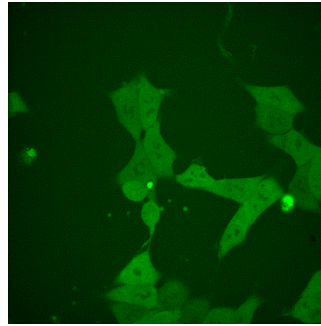
IDH3A, Intron 2\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



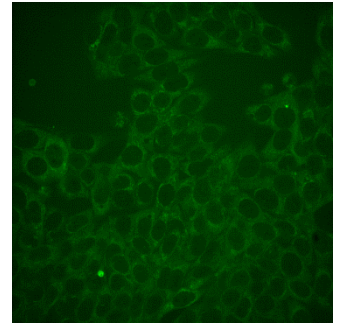
IDH3B, Intron 2\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



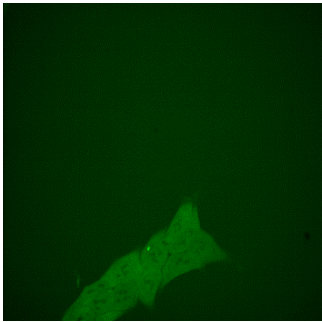
IDI1, Intron 4\_3  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



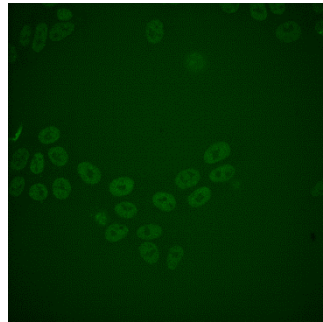
IDI1, Intron 4\_3  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



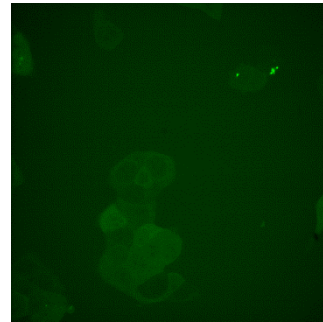
IDI1, Intron 4\_3  
Cytoplasm, Nucleus,  
Mitochondria  
Human Protein Atlas:  
unknown, C\_unk



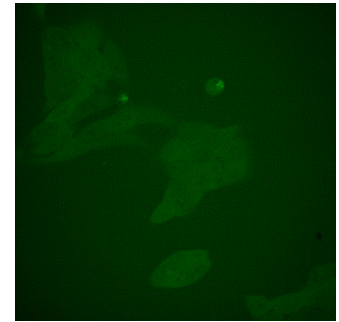
IDI1, Intron 4\_3  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



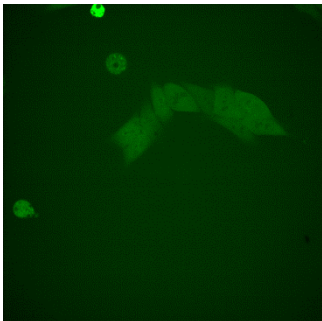
ING3, Intron 11\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



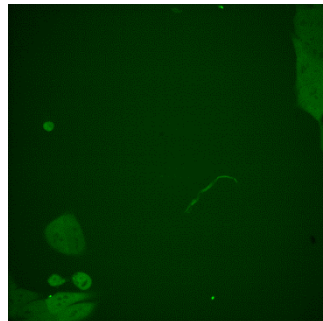
ITGAV, Intron 3\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Focal  
adhesion sites, Cytosol  
C\_sim



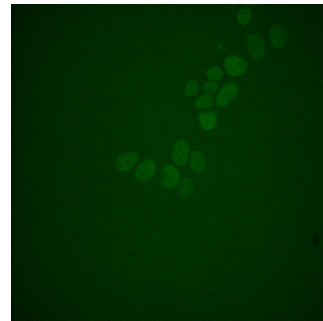
ITPA, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Nucleoplasm, Nuclear bodies  
C\_id



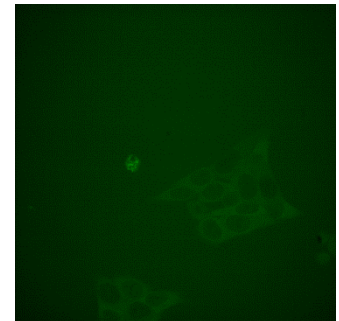
ITPA, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Nucleoplasm, Nuclear bodies  
C\_id



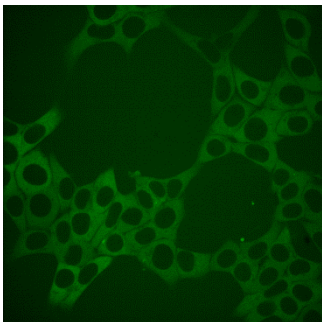
ITPA, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Nucleoplasm, Nuclear bodies  
C\_id



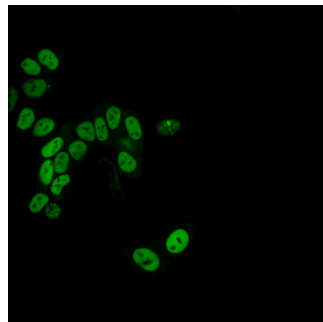
JADE3, Intron 3\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Nucleoli  
N\_id



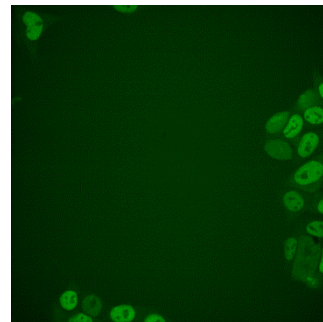
JMJD8, Intron 8\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



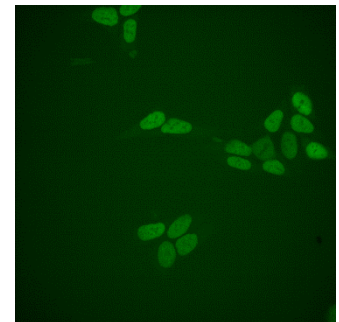
KARS, Intron 7\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



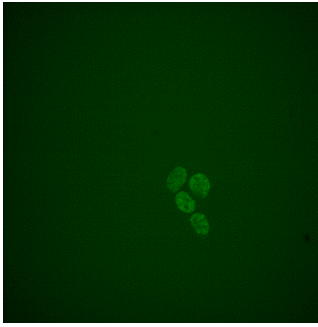
KDM1A, Intron 6\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_id



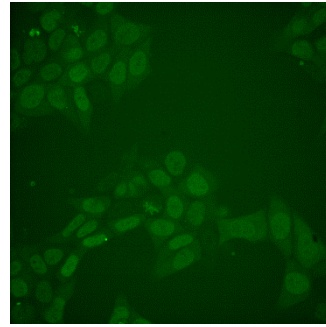
KDM1A, Intron 8\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_id



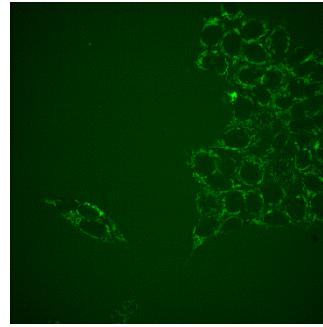
KDM3B, Intron 6\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm  
N\_sim



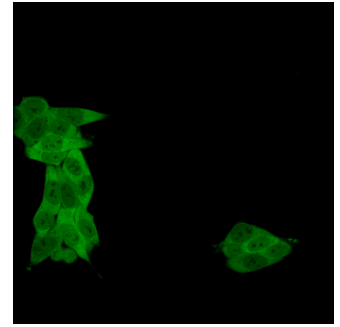
KDM6A, Intron 13\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Nucleoli  
N\_id



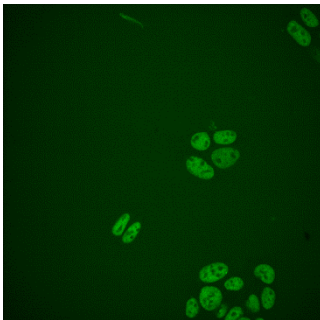
KMT5A, Intron 2\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_id



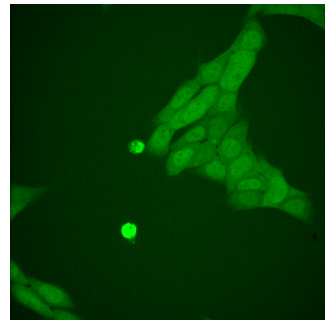
LARS2, Intron 4\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoplasm  
M\_sim



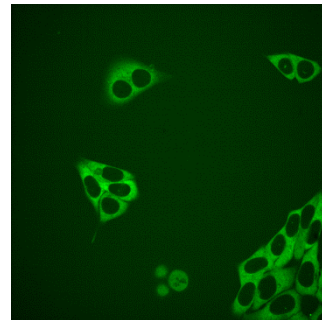
LDHB, Intron 2\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol  
C\_sim



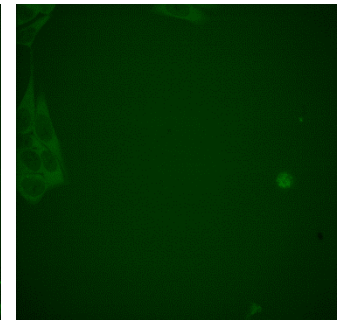
LEO1, Intron 11\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Nucleoli fibrillary  
center, Centrosome, N\_sim



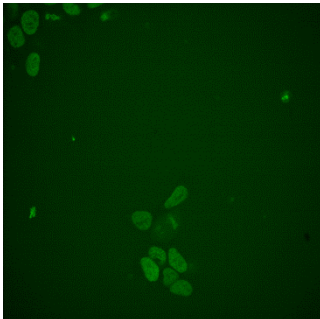
LTA4H, Intron 15\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_id



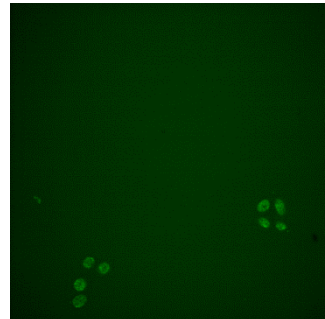
MARS, Intron 12\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



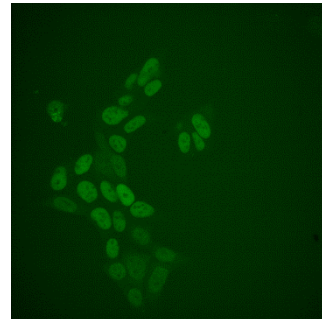
MAT2B, Intron 6\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane  
C\_dis



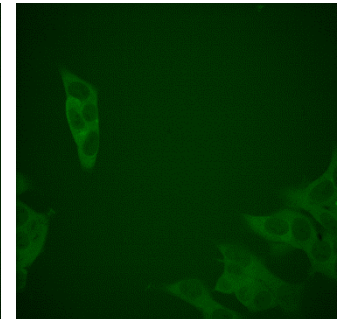
MEAF6, Intron 3\_2  
Nucleus  
Human Protein Atlas:  
unknown  
N\_unk



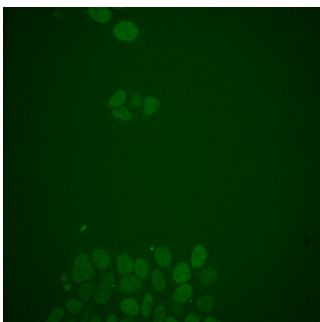
MEN1, Intron 8\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_sim



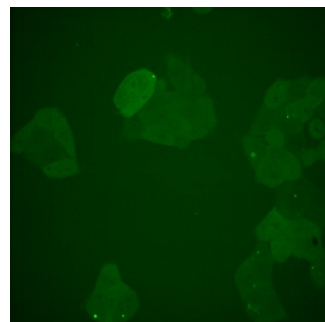
METTL14, Intron 1\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm  
N\_sim



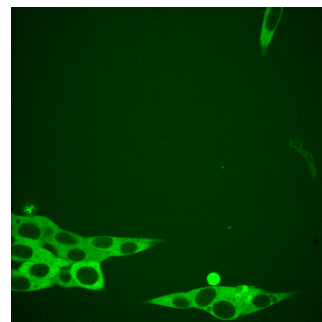
MMADHC, Intron 2\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



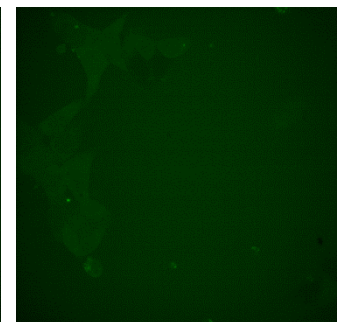
MORF4L1, Intron 2\_1  
Nucleus  
Human Protein Atlas: Nuclear  
speckles  
N\_id



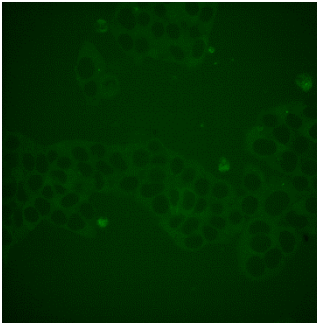
MSR1, Intron 4\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



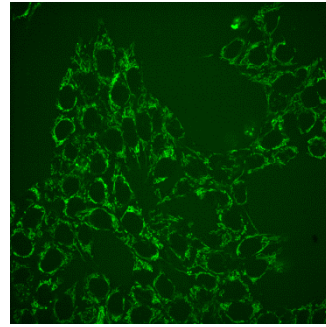
MTHFD1, Intron 22\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol  
C\_sim



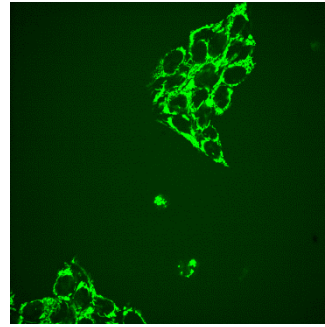
NAA40, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Nuclear  
bodies  
C\_sim



NAMPT, Intron 3\_1  
Cytoplasm  
Human Protein Atlas: Nuclear speckles, Cell junctions  
C\_dis



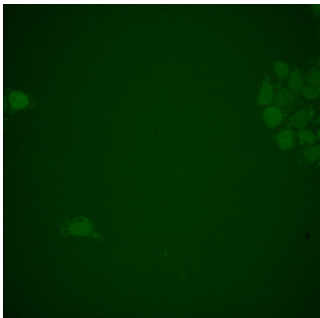
NDUFA10, Intron 7\_1  
Mitochondria  
Human Protein Atlas: Mitochondria  
M\_id



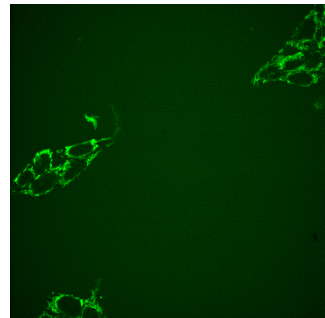
NDUFA10, Intron 9\_1  
Mitochondria  
Human Protein Atlas: Mitochondria  
M\_id



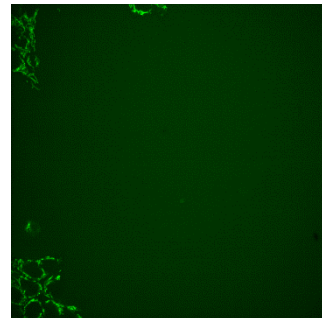
NDUF8, Intron 1\_1  
Mitochondria, Nucleus, Cytoplasm  
Human Protein Atlas: Mitochondria, M\_sim



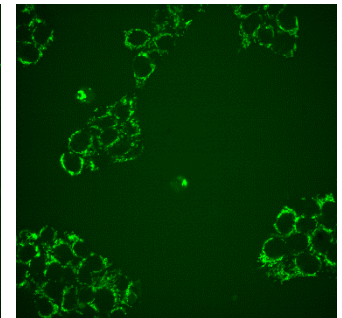
NDUF55, Intron 2\_1  
Nucleus, Mitochondria  
Human Protein Atlas: unknown  
N\_unk



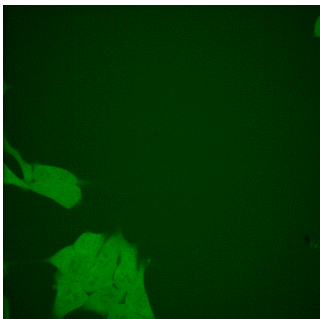
NDUF56, Intron 2\_1  
Mitochondria  
Human Protein Atlas: unknown  
M\_unk



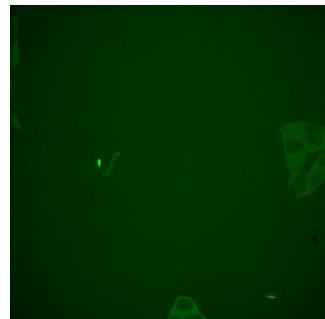
NDUF56, Intron 2\_1  
Mitochondria  
Human Protein Atlas: unknown  
M\_unk



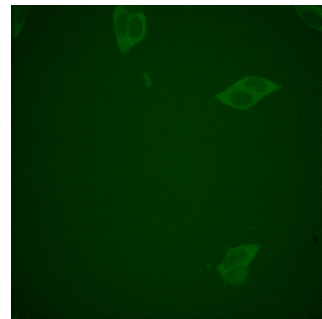
NDUF56, Intron 2\_2  
Mitochondria  
Human Protein Atlas: unknown  
M\_unk



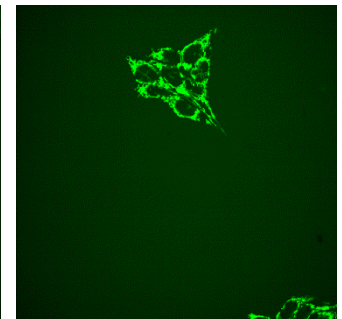
NDUFV2, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Mitochondria  
C\_dis



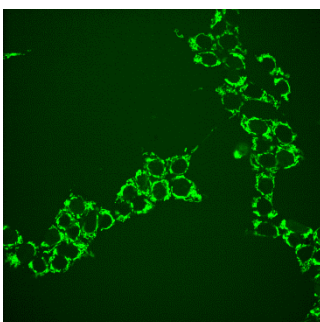
NME1, Intron 3\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol, Nucleoplasm, Plasma membrane, C\_id



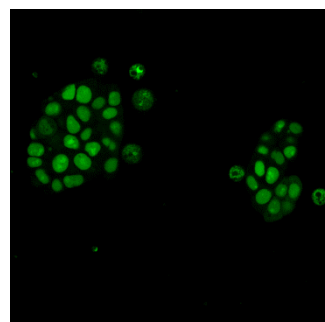
NME1, Intron 3\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol, Nucleoplasm, Plasma membrane, C\_id



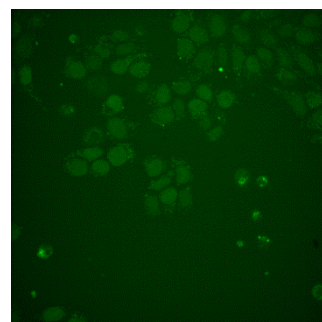
NNT, Intron 9\_1  
Mitochondria  
Human Protein Atlas: Mitochondria  
M\_id



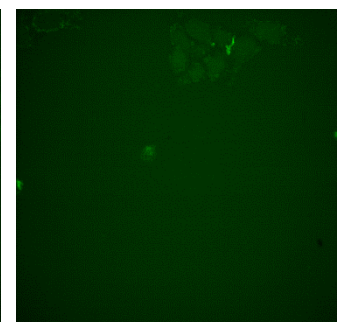
NNT, Intron 21\_1  
Mitochondria  
Human Protein Atlas: Mitochondria  
M\_id



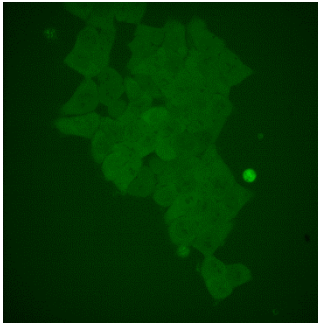
NSUN2, Intron 1\_1  
Nucleus  
Human Protein Atlas: Nucleoplasm  
N\_id



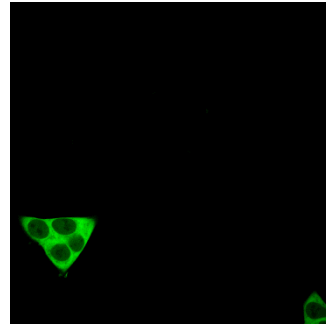
NSUN2, Intron 4\_1  
Nucleus, Mitochondria  
Human Protein Atlas: Nucleoplasm  
N\_sim



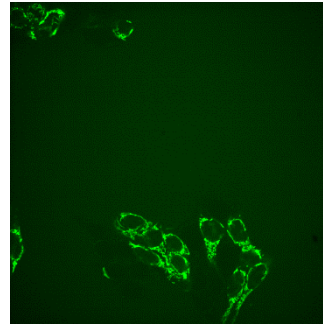
NSUN2, Intron 16\_1  
Nucleus, Mitochondria  
Human Protein Atlas: Nucleoplasm  
N\_sim



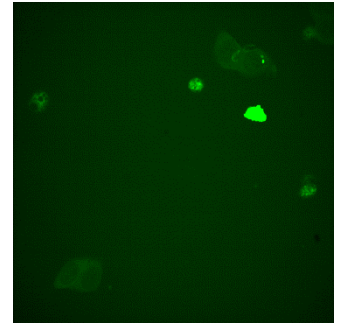
NT5C3B, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



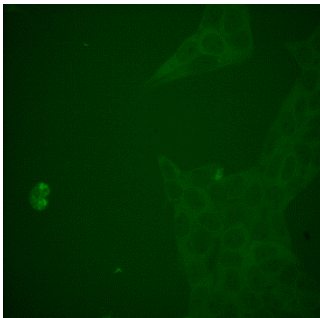
NUDT5, Intron 2\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Vesicles, Nucleoplasm,  
Centrosome, C\_sim



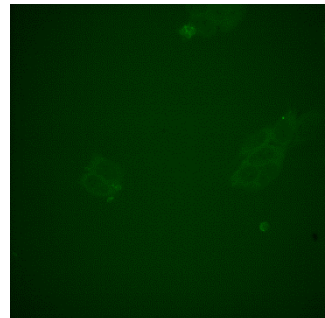
NUDT12, Intron 6\_2  
Mitochondria  
Human Protein Atlas:  
unknown  
M\_unk



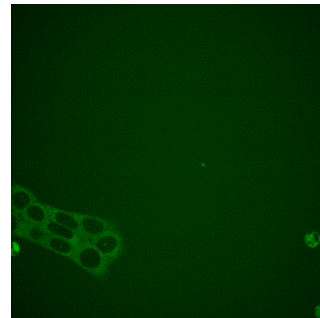
NXN, Intron 3\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Golgi,  
Cytosol  
C\_sim



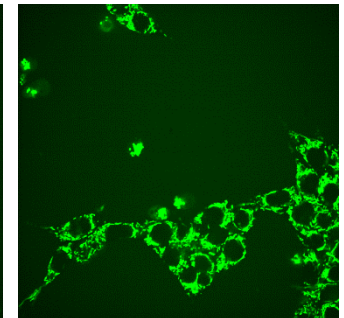
NXN, Intron 7\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Golgi,  
Cytosol  
C\_sim



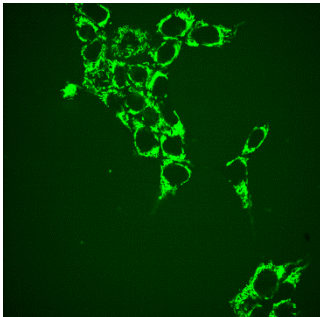
NXN, Intron 7\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Golgi,  
Cytosol  
C\_sim



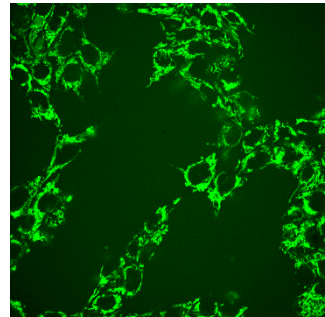
OAS3, Intron 15\_1  
Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Cytosol, Plasma  
membrane, C\_sim



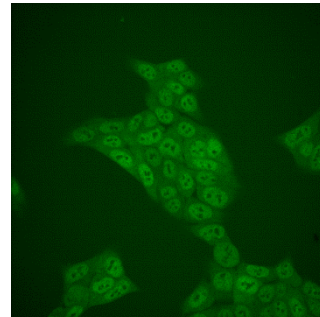
OAT, Intron 6\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoplasm  
M\_sim



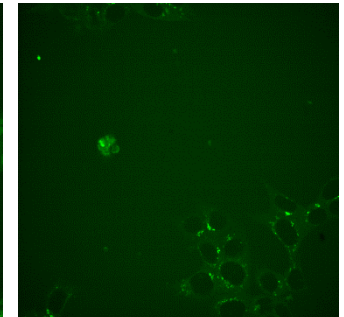
OAT, Intron 6\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoplasm  
M\_sim



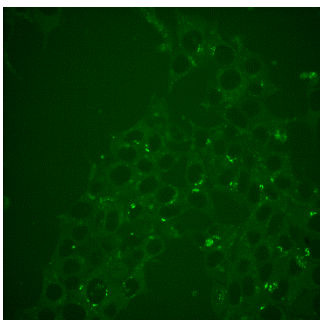
OAT, Intron 6\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoplasm  
M\_sim



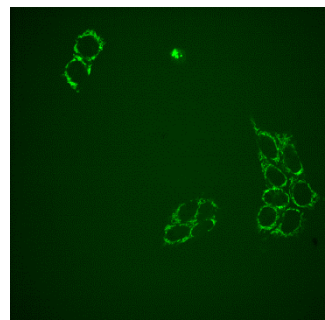
OGT, Intron 3\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Plasma  
membrane, N\_id



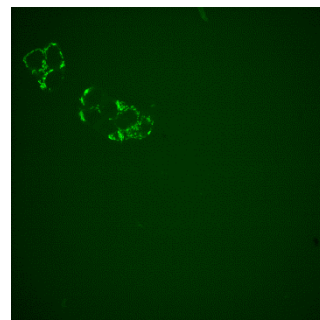
OSBPL11, Intron 12\_1  
Cytoplasm, Golgi  
Human Protein Atlas:  
Nucleoplasm, Golgi  
C\_sim



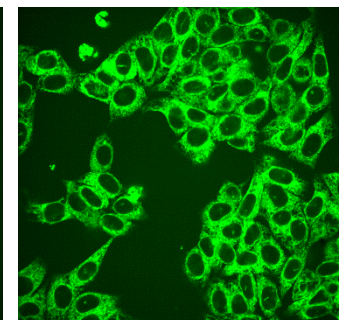
OSBPL11, Intron 12\_1  
Cytoplasm, Golgi  
Human Protein Atlas:  
Nucleoplasm, Golgi  
C\_sim



OXA1L, Intron 1\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id

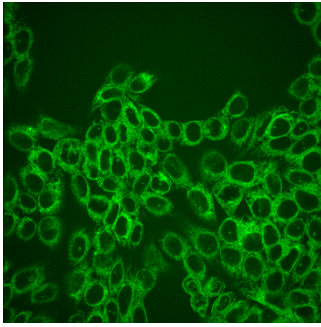


OXA1L, Intron 1\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id

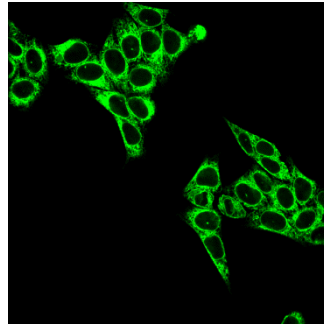


P4HB, Intron 6\_1  
ER  
Human Protein Atlas: ER,  
secreted  
ER\_id

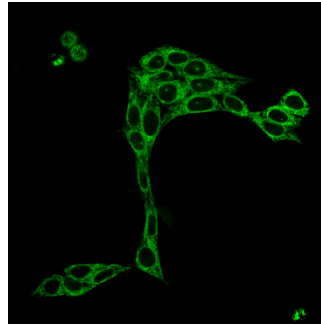




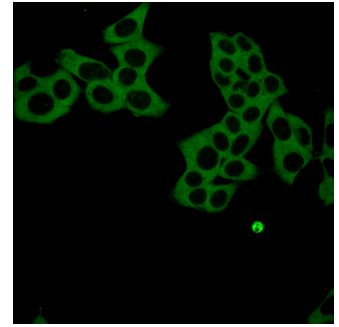
P4HB, Intron 6\_1  
ER  
Human Protein Atlas: ER, secreted  
ER\_id



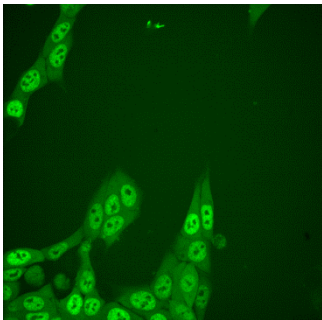
P4HB, Intron 9\_1  
ER  
Human Protein Atlas: ER, secreted  
ER\_id



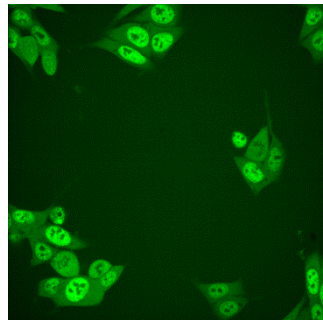
P4HB, Intron 10\_1  
ER  
Human Protein Atlas: ER, secreted  
ER\_id



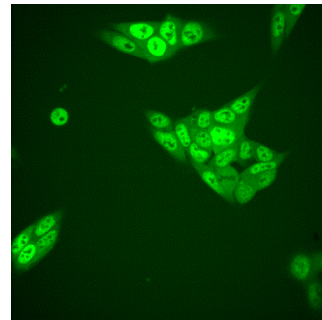
PAICS, Intron 7\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



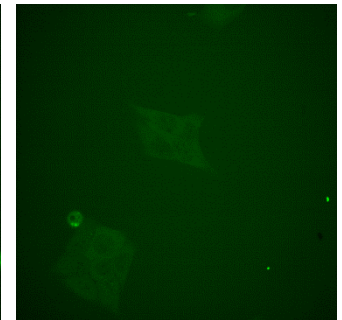
PARK7, Intron 4\_2  
Nucleus, Cytoplasm  
Human Protein Atlas: Nucleoplasm, Cytosol  
N\_id



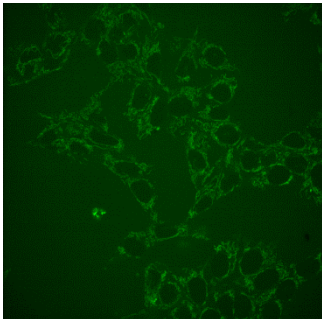
PARK7, Intron 4\_2  
Nucleus, Cytoplasm  
Human Protein Atlas: Nucleoplasm, Cytosol  
N\_id



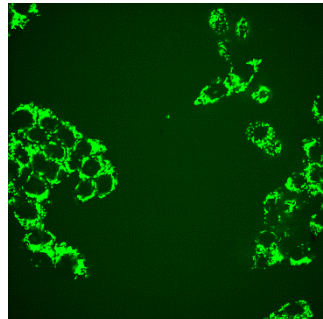
PARK7, Intron 4\_2  
Nucleus, Cytoplasm  
Human Protein Atlas: Nucleoplasm, Cytosol  
N\_id



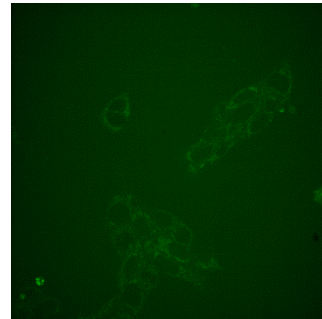
PCGF6, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: unknown  
C\_unk



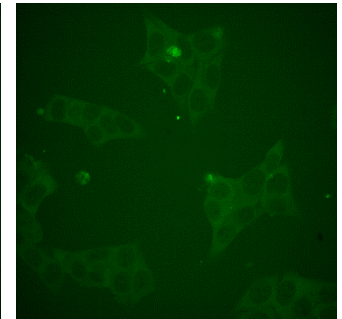
PDE12, Intron 1\_2  
Mitochondria  
Human Protein Atlas: unknown  
M\_unk



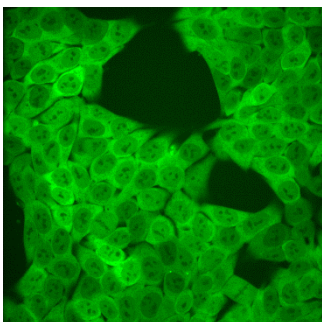
PDHA1, Intron 3\_1  
Mitochondria  
Human Protein Atlas: Mitochondria  
M\_id



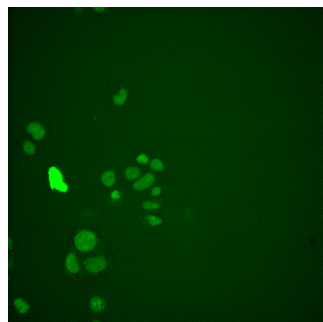
PDSS1, Intron 1\_1  
Mitochondria  
Human Protein Atlas: Cytosol  
M\_dis



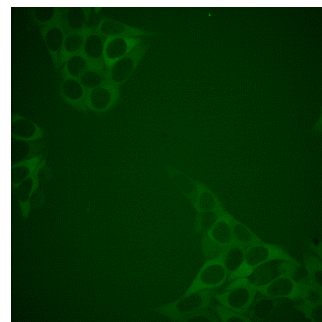
PFKL, Intron 12\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: unknown  
C\_unk



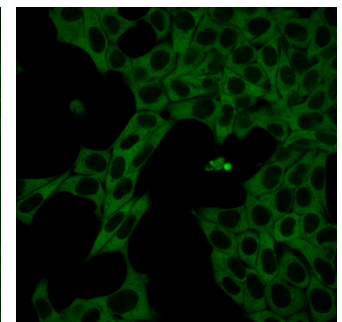
PGAM1, Intron 2\_3  
Cytoplasm, Nucleus  
Human Protein Atlas: Nucleoplasm  
C\_sim



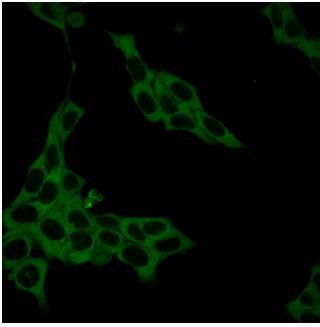
PHF8, Intron 21\_1  
Nucleus  
Human Protein Atlas: Nucleoplasm  
N\_id



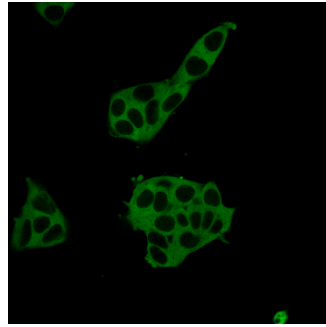
PHGDH, Intron 10\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma membrane, Cytosol, Nucleoplasm, C\_id



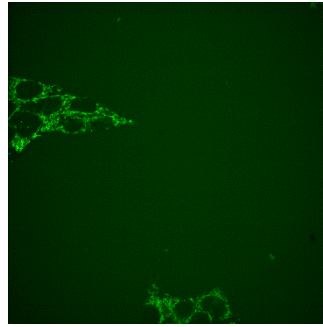
PKM, Intron 3\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



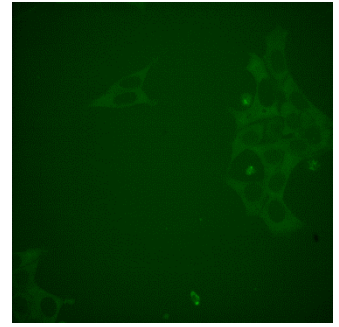
PKM, Intron 3\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



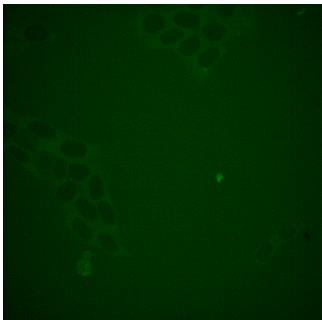
PKM, Intron 7\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



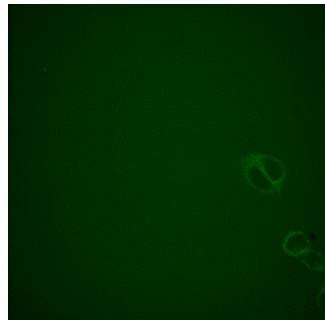
PLCB1, Intron 2\_1  
Mitochondria  
Human Protein Atlas: Plasma  
membrane  
M\_dis



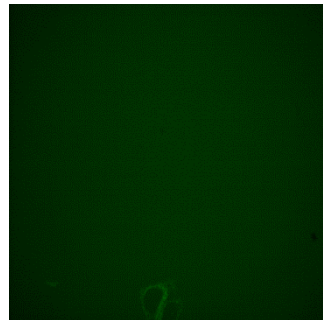
PLCB3, Intron 1\_1  
Cytoplasm  
Human Protein Atlas:  
Nucleoplasm  
C\_dis



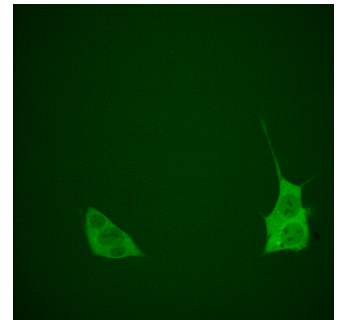
PLCG1, Intron 25\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



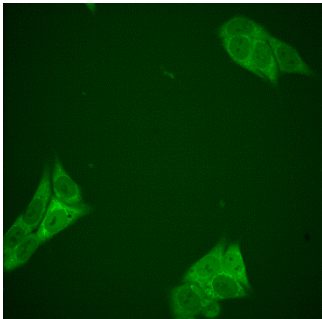
PLOD1, Intron 7\_1  
ER  
Human Protein Atlas:  
Vesicles, Neucleoplasm  
ER\_dis



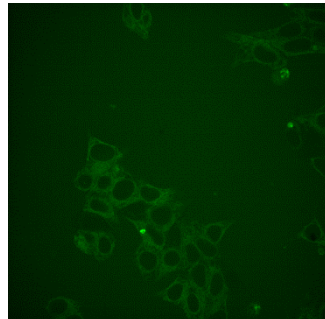
PLOD3, Intron 8\_1  
ER  
Human Protein Atlas:  
unknown  
ER\_unk



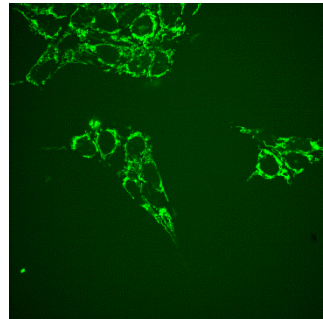
PNPO, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
C\_id



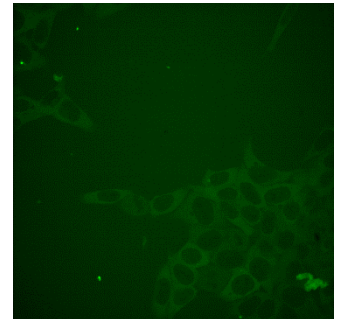
PNPO, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
C\_id



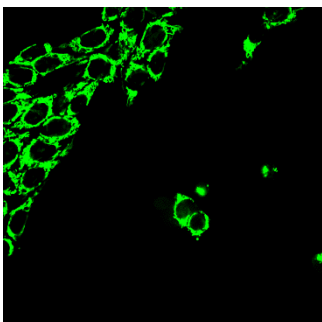
POFUT1, Intron 3\_2  
ER  
Human Protein Atlas:  
Centrosome  
ER\_dis



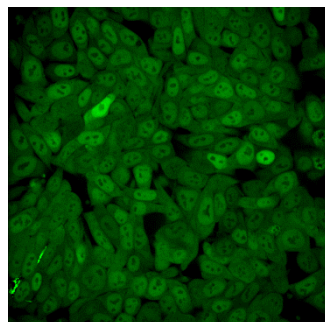
PPA2, Intron 3\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoplasm  
M\_sim



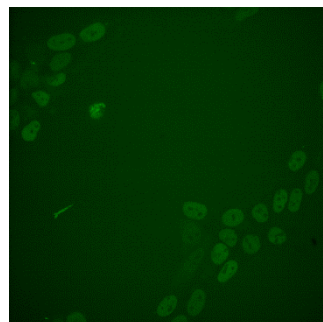
PPAT, Intron 9\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Midbody ring  
C\_dis



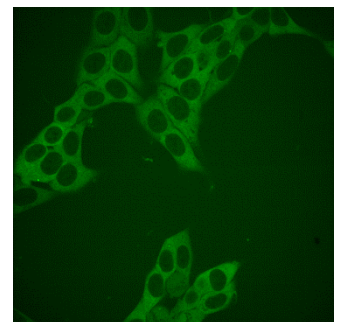
PRDX3, Intron 6\_2  
Mitochondria  
Human Protein Atlas:  
unknown  
M\_unk



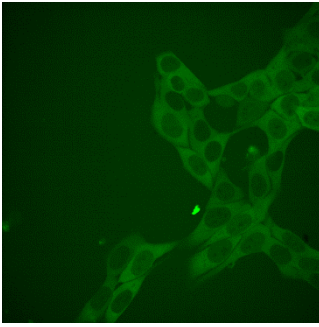
PRDX6, Intron 2\_2  
Nucleus, Cytoplasm  
Human Protein Atlas: Plasma  
membrane, Cytosol  
N\_sim



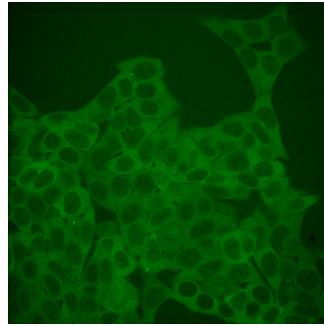
PRIM1, Intron 5\_1  
Nucleus  
Human Protein Atlas: Vesicles  
N\_dis



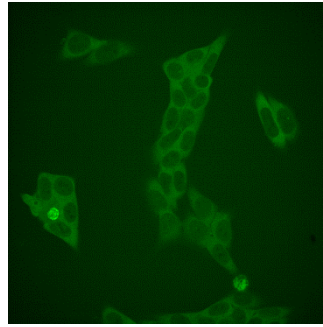
PRMT5, Intron 12\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
C\_id



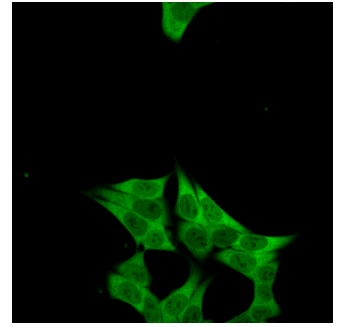
PRPS1, Intron 2\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



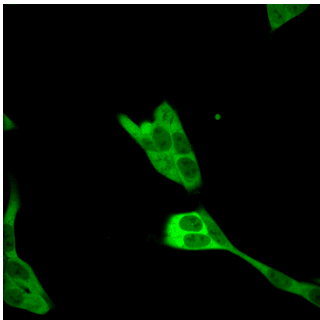
PRPS1, Intron 2\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



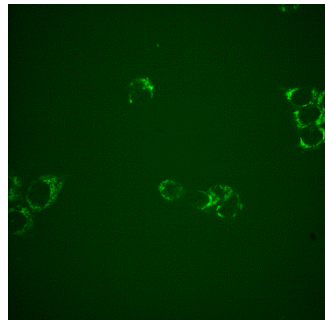
PRPS1, Intron 2\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



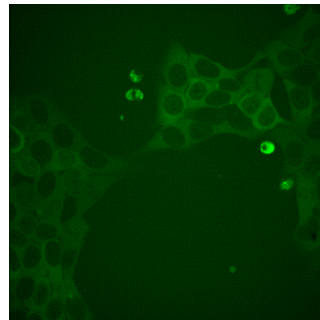
PSAT1, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol  
C\_sim



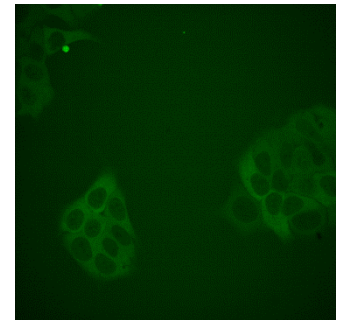
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Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol  
C\_sim



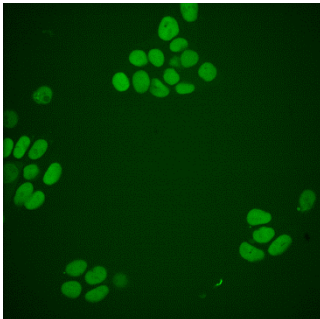
PYCR2, Intron 2\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



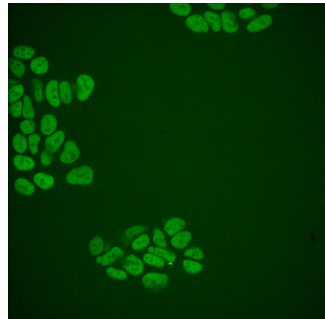
PYGL, Intron 4\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol  
C\_sim



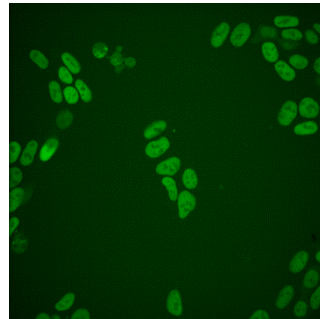
PYGL, Intron 4\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Plasma  
membrane, Cytosol  
C\_sim



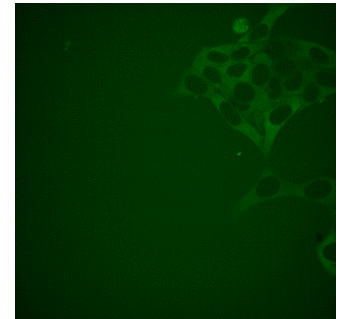
PYGO2, Intron 2\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



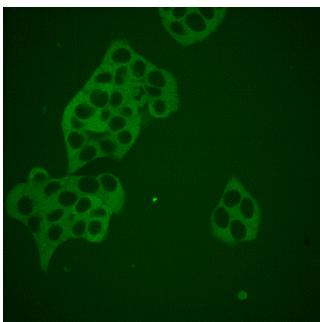
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Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



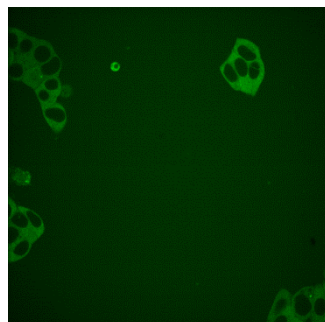
PYGO2, Intron 2\_2  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



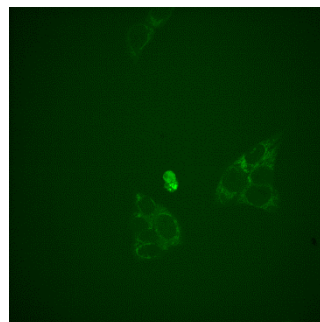
QARS, Intron 3\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



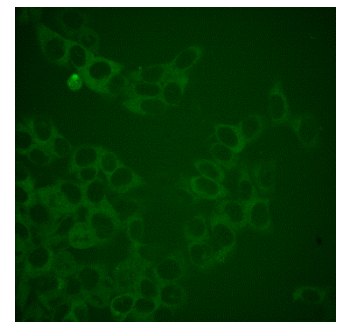
QARS, Intron 18\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



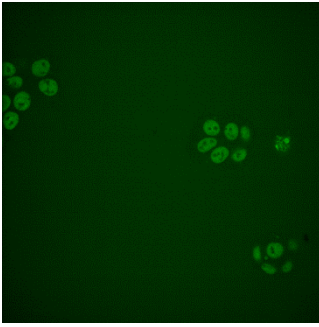
QARS, Intron 18\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



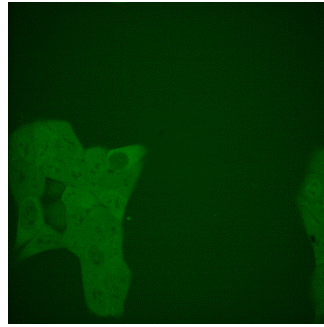
QDPR, Intron 1\_2  
Mitochondria, Nucleus  
Human Protein Atlas:  
Mitochondria  
M\_sim



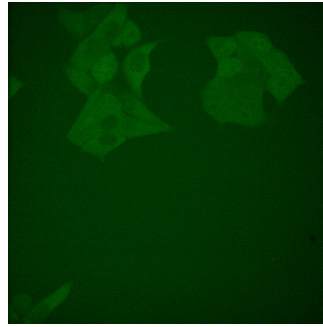
RLF, Intron 7\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Nucleoli  
C\_sim



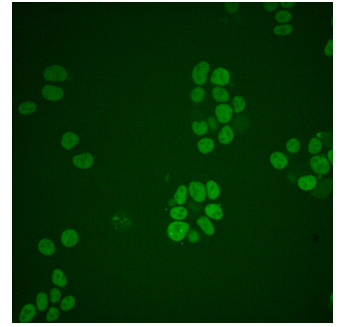
RNF40, Intron 8\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



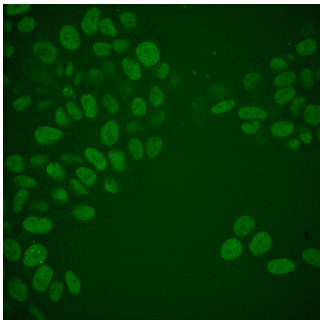
RPA1, Intron 8\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



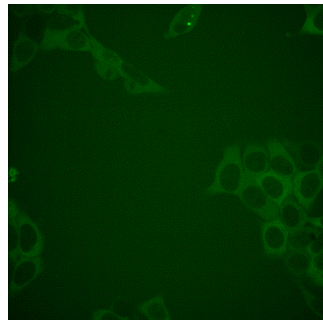
RPA1, Intron 9\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



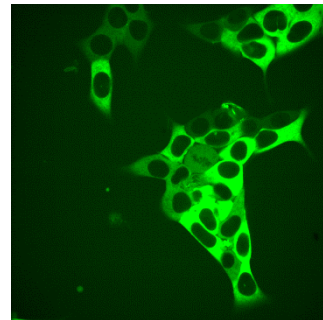
RPA1, Intron 13\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



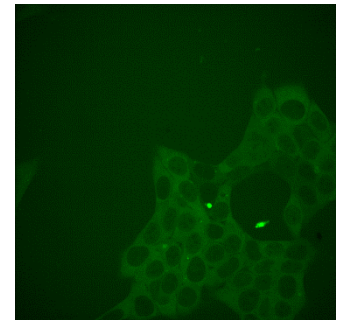
RPA2, Intron 3\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Nuclear bodies  
N\_id



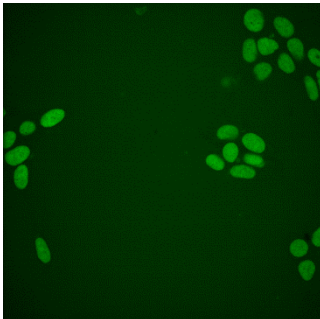
RRM1, Intron 17\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol  
C\_sim



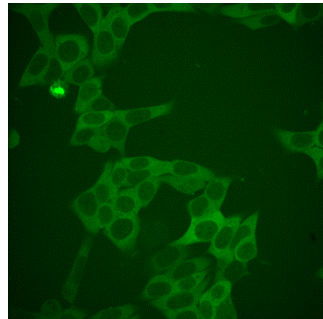
RRM2, Intron 2\_1  
Cytoplasm  
Human Protein Atlas: Cytosol  
C\_id



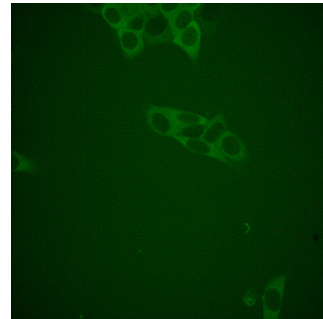
RRM2B, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



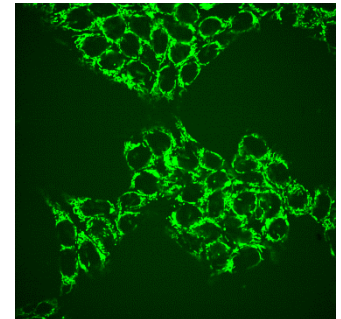
RTF1, Intron 2\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_sim



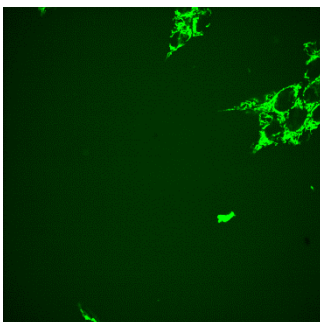
RUVBL1, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
C\_id



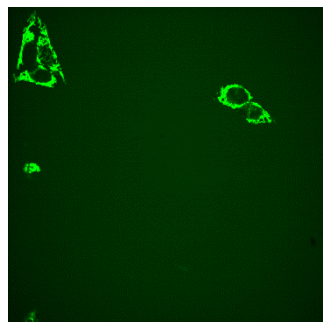
RUVBL1, Intron 2\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
C\_id



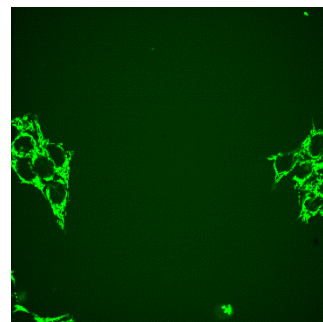
SDHA, Intron 9\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoli  
M\_sim



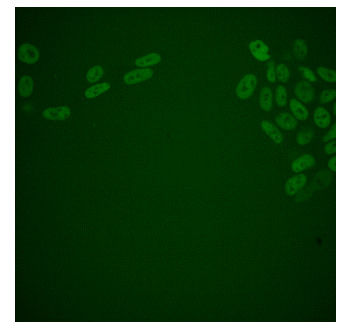
SDHA, Intron 14\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoli  
M\_sim



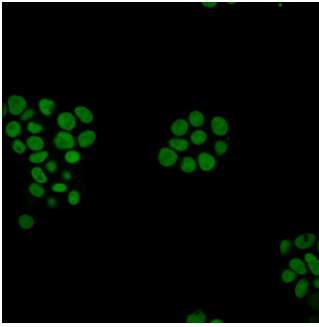
SDHB, Intron 5\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoplasm,  
Plasma membrane, M\_sim



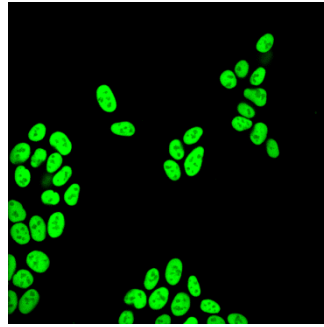
SDHB, Intron 5\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria, Nucleoplasm,  
Plasma membrane, M\_sim



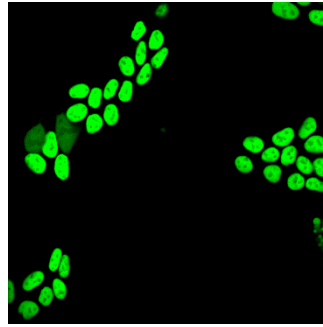
SEPHS1, Intron 6\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



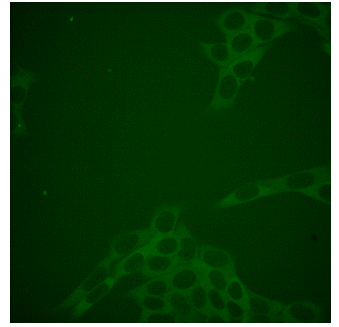
SET, Intron 4\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Lipid droplets  
N\_sim



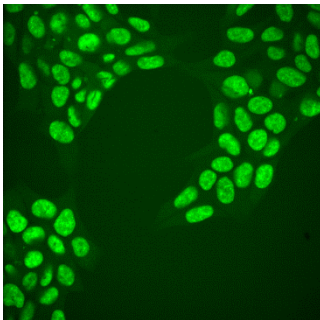
SET, Intron 6\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Lipid droplets  
N\_sim



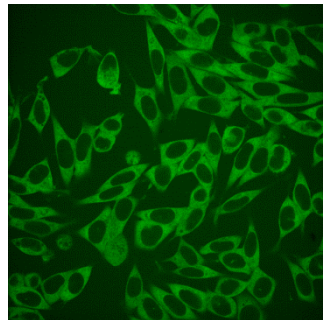
SET, Intron 7\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Lipid droplets  
N\_sim



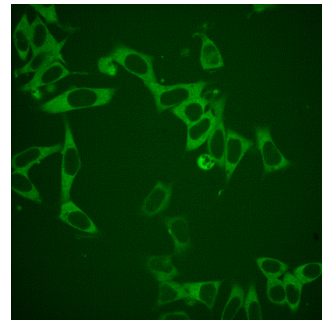
SMAD4, Intron 2\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol,  
Centrosome, C\_id



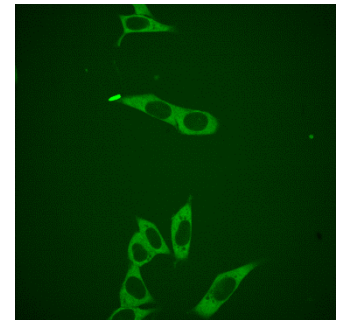
SMNDC1, Intron 2\_2  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Nuclear bodies  
N\_sim



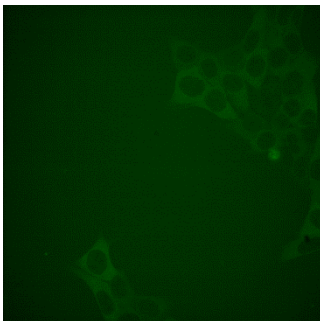
SMOX, Intron 7\_1  
Cytoplasm  
Human Protein Atlas: Nuclear  
membrane, Nucleoplasm,  
Vesicles, C\_dis



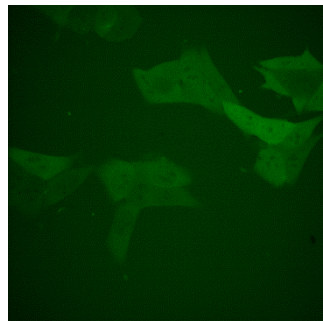
SMOX, Intron 7\_1  
Cytoplasm  
Human Protein Atlas: Nuclear  
membrane, Nucleoplasm,  
Vesicles, C\_dis



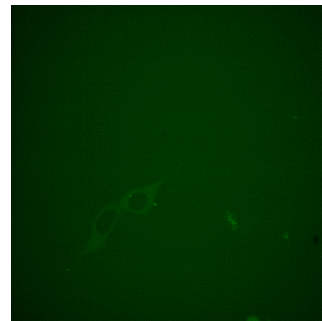
SMOX, Intron 7\_1  
Cytoplasm  
Human Protein Atlas: Nuclear  
membrane, Nucleoplasm,  
Vesicles, C\_dis



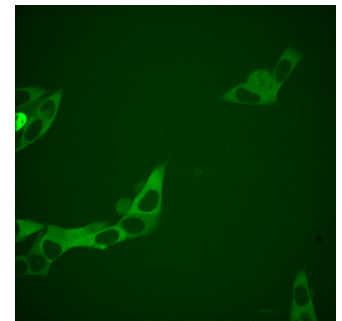
SMS, Intron 5\_2  
Cytoplasm  
Human Protein Atlas: Nuclear  
bodies, Cytosol  
C\_sim



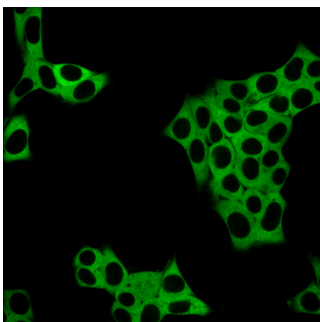
SNCA, Intron 4\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



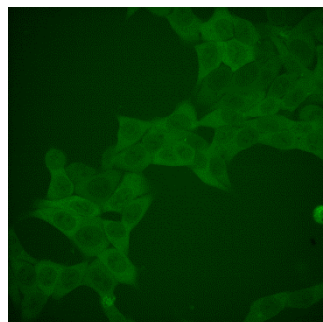
SOD1, Intron 1\_1  
Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Plasma  
membrane, Cytosol, C\_sim



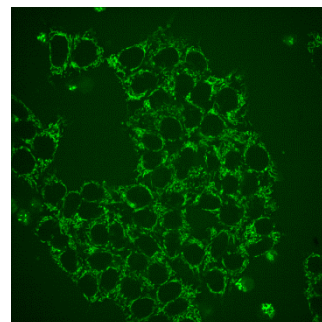
SOD1, Intron 4\_1  
Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Plasma  
membrane, Cytosol, C\_sim



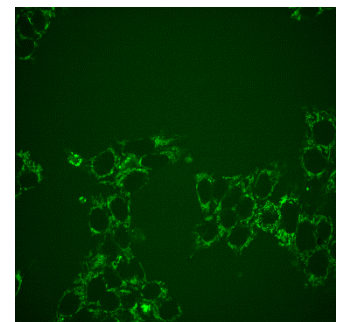
SOD1, Intron 4\_2  
Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Plasma  
membrane, Cytosol, C\_sim



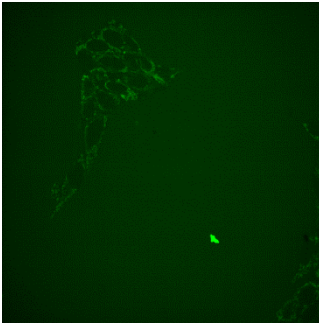
SORD, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol  
C\_sim



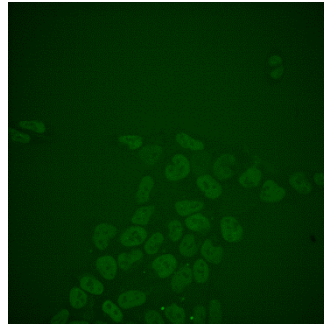
SUCLA2, Intron 5\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



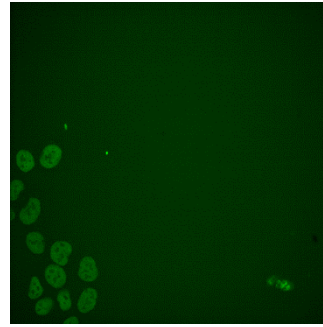
SUCLA2, Intron 5\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



SUCLA2, Intron 10\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



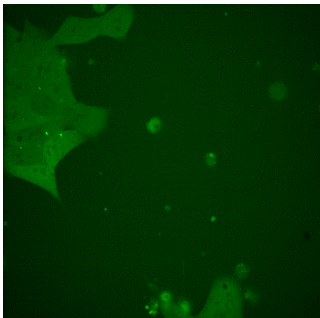
SUPT6H, Intron 28\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm, Cytosol, Plasma  
membrane, N\_sim



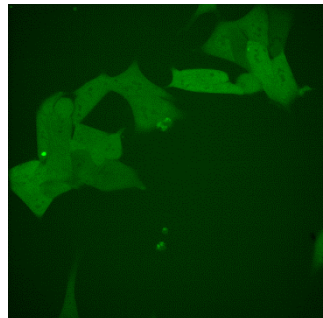
SUPT7L, Intron 4\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



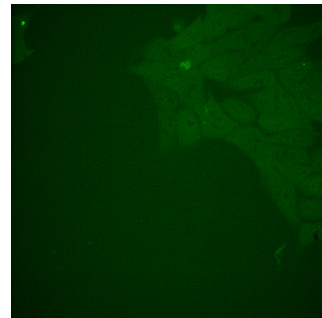
TADA3, Intron 6\_1  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



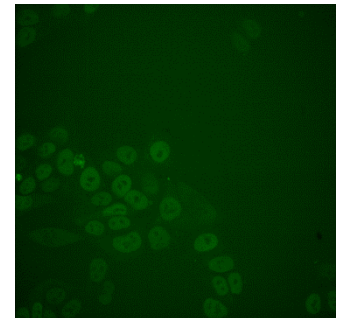
TAF9B, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



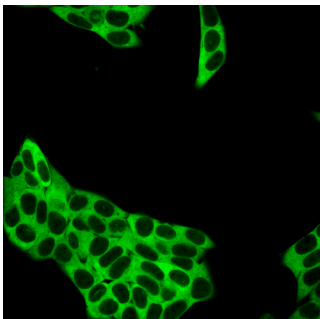
TAF9B, Intron 1\_2  
Nucleus  
Human Protein Atlas:  
Nucleoplasm  
N\_id



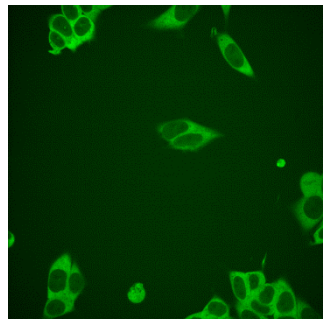
TAF10, Intron 2\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



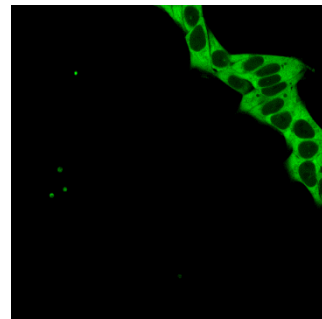
TALDO1, Intron 7\_1  
Nucleus, Cytoplasm  
Human Protein Atlas:  
Nucleoplasm, Cytosol  
N\_id



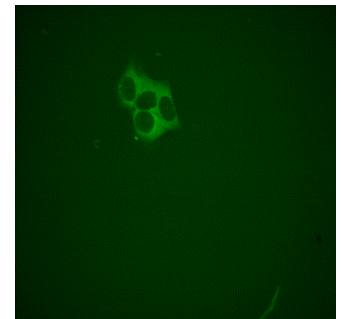
TARS, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Actin filaments  
C\_id



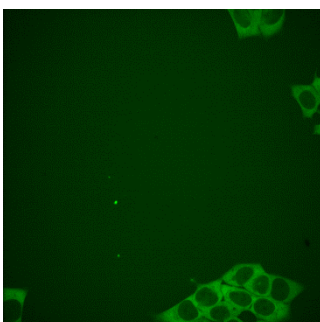
TARS, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Actin filaments  
C\_id



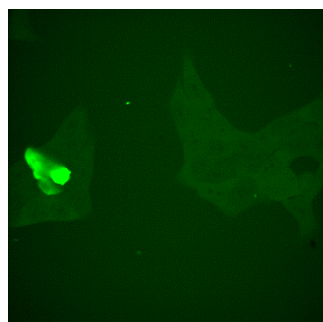
TARS, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Actin filaments  
C\_id



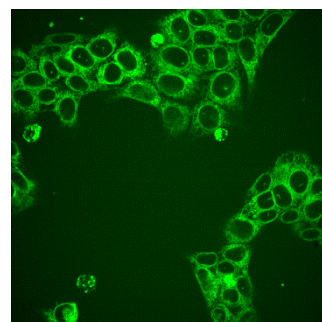
TARS, Intron 8\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Actin filaments  
C\_id



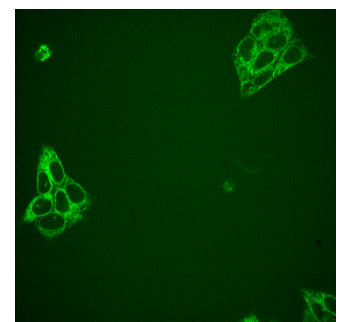
TARS, Intron 9\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol,  
Actin filaments  
C\_id



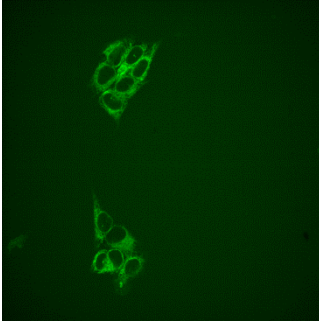
TIGAR, Intron 4\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol  
C\_sim



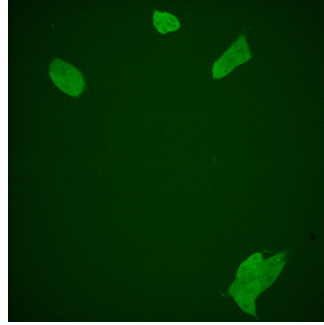
TXNDC5, Intron 5\_1  
ER  
Human Protein Atlas: ER  
ER\_id



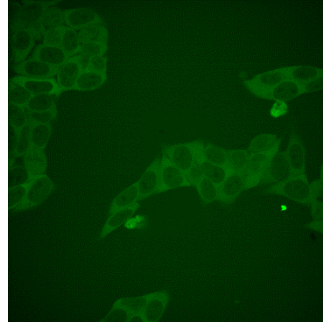
TXNDC5, Intron 5\_1  
ER  
Human Protein Atlas: ER  
ER\_id



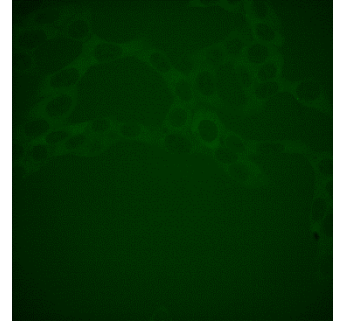
TXNDC5, Intron 6\_1  
ER  
Human Protein Atlas: ER  
ER\_id



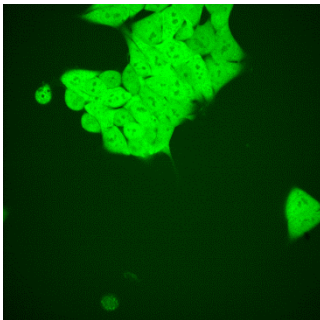
TXNDC9, Intron 2\_1  
Cytoplasm, Nucleus  
Human Protein Atlas: Cytosol  
C\_sim



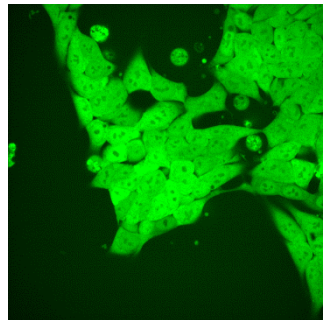
TXNRD1, Intron 10\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm  
C\_sim



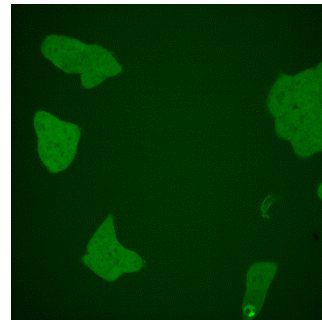
TYMS, Intron 4\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
unknown  
C\_unk



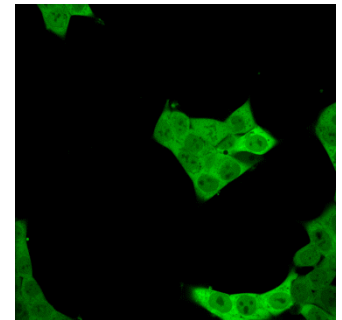
UBE2N, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Nucleoli  
fibrillary center, C\_sim



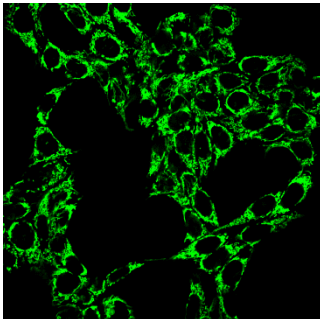
UBE2N, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Nucleoli  
fibrillary center, C\_sim



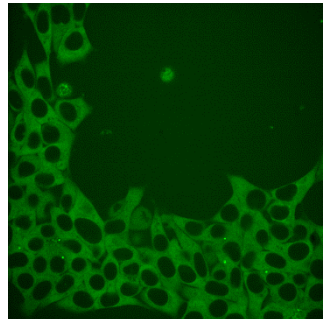
UBE2N, Intron 1\_2  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Nucleoplasm, Nucleoli  
fibrillary center, C\_sim



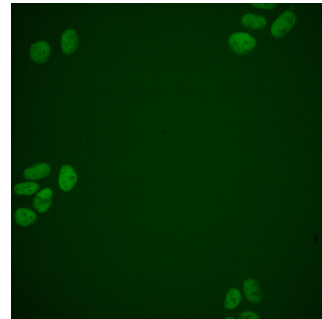
UQCRC2, Intron 11\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Mitochondria  
C\_dis



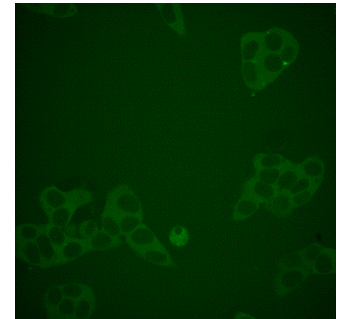
UQCRC2, Intron 13\_1  
Mitochondria  
Human Protein Atlas:  
Mitochondria  
M\_id



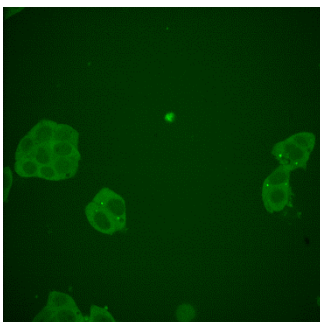
USP9X, Intron 42\_1  
Cytoplasm  
Human Protein Atlas: Vesicles  
C\_dis



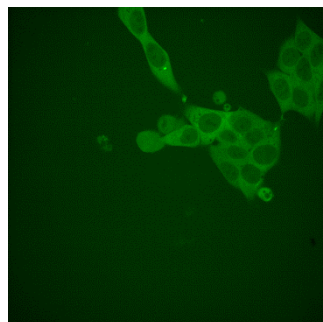
USP22, Intron 1\_2  
Nucleus  
Human Protein Atlas: Nuclear  
speckles  
N\_id



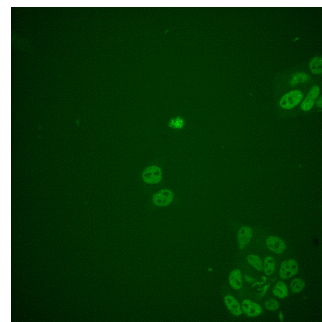
VPS4A, Intron 9\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Midbody  
C\_dis



VPS4B, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Vesicles, Intermediate  
filaments, C\_sim



VPS4B, Intron 1\_1  
Cytoplasm, Nucleus  
Human Protein Atlas:  
Vesicles, Intermediate  
filaments, C\_sim



WDR82, Intron 6\_1  
Nucleus  
Human Protein Atlas: Nucleoli  
N\_id