Confidential report

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Summary

Input genes: *Sirt5*, *Tbc1d7*, *Fam158a*, *Phactr4*, *Hcfc1r1*, *Mett10d*, *Prr13*, *Affy_10343937*, *Ube2m*, *Affy_10342377*, *Vapb*, *Dera*, *Affy_10428368*, *Rmnd1*, *Mapre3*, *Vps29*, *Affy_10366512*, *Vac14*, *Stom*, *Dnajc15*, *Sgms1*, *Fez2*, *Abcd1*, *Psg18*, *Exd2*, *Mrpl16*, *Uchl4*, *Vdac1*, *Vti1b*, *Nudt1*, *Ick*, *Hsd17b12*, *Pex14*, *Affy_10340478*, *Affy_10339495*, *Aktip*, *Affy_10369174*, *Ywhag*, *Affy_10342840*, *Ndufc1*, *Atp6v1h*, *Mrps36*, *Zfp51*, *Jkamp*, *Fam98a*, *4931406H21Rik*, *Hmgb1*, *Snora2b*, *Sap30l*, *Affy_10338524*, *Tmem135*, *Affy_10339823*, *Affy_10442231*, *Usp10*, *Bscl2*, *Affy_10342215*, *Affy_10339457*, *Affy_10339692*, *Pomp*, *Ascc1*, *Ppm1b*, *Zfp672*, *Cr1l*, *2610110G12Rik*, *Katnbl1*, *Iqsec1*, *Affy_10338163*, *Lrrc1*, *Snx32*, *Gm5512*, *Zfyve20*, *Affy_10340472*, *Rer1*, *Coq6*, *Wdr67*, *Tep1*, *Affy_10338772*, *Gfm1*, *Kcnj16*, *Rasgrp2*, *Psmd8*, *Affy_10339403*, *Pomt1*, *Affy_10338486*, *Ap2b1*, *Cpt1b*, *Tsr2*, *Ran*, *Mrto4*, *Cox7a2l*, *Immp2l*, *4930402H24Rik*, *Gm10739*, *Pdzd11*, *Anapc2*, *mir-302b*, *Yif1a*, *Affy_10339821*, *Atic*, *Dynlt3*, *Nipsnap3b*, *Affy_10495447*, *Prkra*, *Smarca4*, *Gm4787*, *Affy_10342937*, *Ndufs5*, *Trp53bp1*, *Mrpl42*, *Affy_10559987*, *Gm10649*, *Cox19*, *Ldb2*, *Olfr1033*, *Acsf2*, *Affy_10339456*, *Tufm*, *Alg14*, *Affy_10340857*, *Plgrkt*, *Zdhhc5*, *Ly6d*, *AU040320*, *Affy_10344379*, *Affy_10339273*, *Eci3*, *Affy_10339190*, *Affy_10340686*, *Alg3*, *Affy_10339598*, *Fam169b*, *Eif4e*, *Taf12*, *Xpo7*, *Tbck*, *Gpr182*, *Crem*, *Mlec*, *Tdp1*, *Affy_10371284*, *Brd7*, *Chkb*, *Copz2*, *Acss3*, *Stradb*, *Ubqln1*, *Dctn5*, *Coq2*, *Fntb*, *Affy_10339115*, *Golt1a*, *Affy_10340334*, *Ccdc36*, *Cs*, *Affy_10342959*, *Xpo7*, *Atg13*, *BC052040*, *Affy_10339608*, *Affy_10338248*, *Mlec*, *Lgr5*, *Bcs1l*, *Epas1*, *9030619P08Rik*, *Crim1*, *Dennd1a*, *Affy_10342769*, *Dnase1l3*, *Affy_10342990*, *Fam113a*, *Affy_10344199*, *Mrps36*, *Apool*, *2610020H08Rik*, *Affy_10340001*, *Lias*, *Affy_10405892*, *Cdc42ep5*, *Ptpmt1*, *Wipf2*, *Mtmr9*, *Rfk*, *Flii*, *Rpl31*, *Trappc1*, *Sycp3*, *Akr1e1*, *Them4*, *Mrto4*, *Clec4b1*, *Affy_10343993*, *BC004004*, *Sept9*, *Olfr1034*, *Tufm*, *Acot13*, *Acsf2*, *Affy_10342732*, *Epha2*, *Affy_10342122*, *LOC100044517*, *8430410K20Rik*, *Affy_10340310*, *LOC638798*, *Mcts2*, *Affy_10339336*, *Enox2*, *Affy_10343423*, *Affy_10341290*, *Mdc1*, *Tob1*, *Affy_10339900*, *Txnl1*, *Mrpl57*, *Affy_10343792*, *Edem2*, *Ap3s1*, *Isy1*, *Affy_10601925*, *Aga*, *Affy_10608579*, *Tbca*, *Agxt2l2*, *Thada*, *Mrps17*, *B130024G19Rik*, *Pih1d1*, *Affy_10339614* and *Affy_10608712*

Gene Sets

enrichr	Term	Overlap
Mouse Gene Atlas	adipose brown	18/456
GTEx Tissue Sample Gene Expression Profiles up	GTEX-PWOO-0326-SM-48TDB adrenal gland female 40-49 years	38/1582
Jensen COMPARTMENTS	Mitochondrial inner membrane	18/486
GTEx Tissue Sample Gene Expression Profiles up	GTEX-P4QS-1326-SM-3NMCD adrenal gland male 60-69 years	42/1914
SubCell BarCode	MCF7 Mitochondria M2 30609389	12/349
Jensen COMPARTMENTS	Organelle inner membrane	18/542
SubCell BarCode	U251 Mitochondria M2 30609389	12/329
Kinase Perturbations from GEO down	AKT1 activemutant 216 GSE9484	12/300
Kinase Perturbations from GEO up	MET knockout 252 GSE30651	12/300
Jensen COMPARTMENTS	Mitochondrial part	26/975
Ligand Perturbations from GEO up	estradiol human endometrial cancer cells GSE56946 ligand:218	12/307
ARCHS4 IDG Coexp	PRKRA IDG kinase ARCHS4 coexpression	12/299
GTEx Tissue Sample Gene Expression Profiles up	GTEX-OXRK-0126-SM-3NB1E adrenal gland female 50-59 years	44/2159

enrichr	Term	Overlap
Ligand Perturbations from GEO up	estradiol human estrogen receptor (ER)-positive MCF7 breast cancer cells GDS3217 ligand:39	13/390
GTEx Tissue Sample Gene Expression Profiles up	GTEX-QLQW-0226-SM-447BJ adrenal gland male 30-39 years	44/2193
GTEx Tissue Sample Gene Expression Profiles up	GTEX-U3ZN-0826-SM-4DXSZ adrenal gland female 30-39 years	38/1822
MSigDB Computational	MORF CSNK2B	12/287
SubCell BarCode	HCC827 Mitochondria M2 30609389	11/361
Jensen COMPARTMENTS	Mitochondrial envelope	20/716
SubCell BarCode	H322 Mitochondria M2 30609389	10/336
MSigDB Computational	MORF MAP2K2	7/131
Jensen COMPARTMENTS	Mitochondrial membrane	19/674
Jensen COMPARTMENTS	Mitochondrial matrix	14/417
MSigDB Computational	GCM RAB10	8/176
MSigDB Computational	MORF BUB3	10/276
MSigDB Computational	MORF PPP1CA	8/169
SubCell BarCode	H322 Mitochondria M1 30609389	8/245
MSigDB Computational	MORF EI24	7/142
SubCell BarCode	MCF7 Mitochondria Unclassified 30609389	8/231
MSigDB Computational	MORF SOD1	11/277
MSigDB Computational	MORF RAC1	9/211
MSigDB Computational	MORF EIF3S2	9/244
Drug Perturbations from GEO up	Arachidonic acid DB04557 human GSE3737 sample 3171	14/395
MSigDB Computational	MORF PPP2R4	4/50
MSigDB Computational	MORF ATOX1	5/80
MSigDB Computational	GCM RAN	8/197
MSigDB Computational	MORF GNB1	10/303
MSigDB Computational	MORF PPP1CC	8/164
MSigDB Computational	GCM GSPT1	7/167
SubCell BarCode	U251 Mitochondria M1 30609389	6/170
Aging Perturbations from GEO up	Mouse brown fat 5 months vs 24 months GSE25325 aging:285	12/347
SubCell BarCode	A431 Mitochondria M2 30609389	7/216
Drug Perturbations from GEO up	rosiglitazone DB00412 mouse GSE35011 sample 2813	11/310
GTEx Tissue Sample Gene Expression Profiles up	GTEX-XPT6-2026-SM-4B64V muscle male 20-29 years	28/1255
MCF7 Perturbations from GEO up	estradiol GSE11352 mcf7:62	13/390
Virus Perturbations from GEO down	SARS-CoV 48Hour GSE47962	11/300
Drug Perturbations from GEO up	apratoxin A 6326668 human GSE2742 sample 3071	9/211
Aging Perturbations from GEO down	Human skeletal muscle (vastus lateralis) 25 years vs 67 years GDS473 aging:92	9/235
Aging Perturbations from GEO down	Rat ventricle 4 months vs 21 months GDS399 aging:112	11/352
DrugMatrix	Iproniazid-46 mg/kg in Water-Rat-Heart-5d-dn	13/334