GREAT version 4.0.4 current (08/19/2019 to now)

Warning: Your set hits a large fraction of the genes in the genome, which often does not work well with the GREAT Significant by Both view due to a saturation of the gene-based hype See our tips for handling large datasets or try the Significant By Region-based Binomial view.

Job Description

Job ID: 20250409-public-4.0.4-t9mokl Display name: species_pancreas_parsed.bed

Test set: species_pancreas_parsed.bed (27,353 genomic regions)

> Show in UCSC genome browser. How do I look at my regions in the genome?

Whole genome background Background:

Human: GRCh38 (UCSC hg38, Dec. 2013) Assembly: What gene set does GREAT use?

Associated genomic regions: Basal+extension (constitutive 5.0 kb upstream and 1.0 kb downstream, up to 1000.0 kb max extension). Curated regulatory domains are inclu

11 of all 27,353 genomic regions (0%) are not associated with any genes.

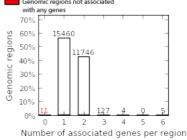
View all genomic region-gene associations. Which genes are my regions associated with? Revise the region-gene association rule. How are my regions associated with genes?

• Region-Gene Association Graphs

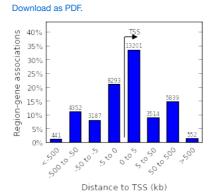
What do these graphs illustrate?

Download as PDF. Genomic regions associated with one or more genes Genomic regions not associated with any genes 70% 60%

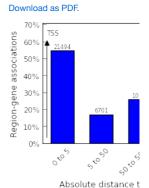
Number of associated genes per region



Binned by orientation and distance to TSS



Binned by absolute distance to



Global Controls Global Export Which data is exported by each option?

- Ensembl Genes (no terms)
- GO Biological Process (20+ terms)

Table controls:	Export	✓ Shown top r	rows in this	table: 20	Set Ter	m annotation o	count: Min: 1	Max: Inf	Set	Visualize this table: [select one]		
	Term Name		Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	OI Ge
endoplasmic response	reticulum unfolded	d protein	31	6.6580e-37	2.8262e-34	2.0787	373	1.36%	544	1.9449e-5	1.3627	
snRNA meta	bolic process		55	2.1239e-28	5.0815e-26	2.2047	247	0.90%	748	4.8814e-4	1.3548	
regulation of polymerase	pri-miRNA transcr Il promoter	iption from RNA	62	1.2927e-27	2.7436e-25	2.2335	233	0.85%	804	8.7237e-4	1.5721	
_	e response, signal t ediator resulting in	73	1.6903e-25	3.0469e-23	2.1007	246	0.90%	507	8.5779e-6	1.4979		
signal transo	luction involved in a	mitotic G1 DNA	77	3.6696e-25	6.2713e-23	2.0812	248	0.91%	486	5.9308e-6	1.5010	
ncRNA trans	cription		81	4.4879e-25	7.2910e-23	2.0022	272	0.99%	515	9.4260e-6	1.4133	
	ponent disassembly nase of apoptosis	y involved in	84	2.8935e-24	4.5328e-22	3.0957	113	0.41%	1,172	1.3850e-2	1.4937	
snRNA trans	cription from RNA	polymerase II	86	4.0126e-24	6.1397e-22	2.1355	223	0.82%	724	3.5284e-4	1.3991	
apoptotic nu	clear changes		110	1.0267e-21	1.2283e-19	3.0015	105	0.38%	1,314	2.7927e-2	1.4775	
	lation of pri-miRNA	•	115	5.2109e-21	5.9627e-19	2.5311	135	0.49%	1,017	5.3526e-3	1.6041	
cytoplasmic	translation		117	8.5383e-21	9.6030e-19	2.6128	126	0.46%	446	2.1713e-6	1.6100	
IRE1-mediat	ed unfolded proteir	n response	121	1.2817e-20	1.3939e-18	2.2104	174	0.64%	756	5.3521e-4	1.4266	

Overview News Use GREAT	Demo	Video How t	o Cite Help	Forum					Bejerano	Lat
Name	Rank	P-Value	FDR Q-Val	Enrichment	Region Hits	Coverage	Rank	FDR Q-Val	Enrichment	Ge
regulation of receptor biosynthetic process	130	6.2865e-20	6.3634e-18	3.0792	92	0.34%	1,331	2.9073e-2	1.5197	
cytoplasmic sequestering of protein	144	3.9118e-19	3.5747e-17	2.6392	113	0.41%	1,260	2.2004e-2	1.3855	
positive regulation of nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay	193	1.5988e-16	1.0901e-14	2.3285	122	0.45%	1,307	2.7608e-2	1.5830	
ER-nucleus signaling pathway	225	3.7956e-15	2.2199e-13	2.1010	139	0.51%	1,077	8.4927e-3	1.4474	
positive regulation of nuclear-transcribed mRNA poly(A) tail shortening	278	3.0961e-13	1.4655e-11	2.5975	77	0.28%	1,342	3.0751e-2	1.6886	
ER overload response	280	3.3006e-13	1.5512e-11	3.1596	56	0.20%	1,342	3.0751e-2	1.6886	
hepatocyte apoptotic process	322	4.1695e-12	1.7039e-10	2.5477	72	0.26%	1,229	1.9878e-2	1.6886	
histone H2A ubiquitination	359	2.2658e-11	8.3051e-10	2.0934	101	0.37%	1,174	1.3839e-2	1.5351	

The test set of 27,353 genomic regions picked 11,120 (59%) of all 18,777 genes.

GO Biological Process has 13,159 terms covering 16,804 (89%) of all 18,777 genes, and 1,256,055 term - gene associations.

13,159 ontology terms (100%) were tested using an annotation count range of [1, Inf].

□ GO Cellular Component (7 terms)

Table controls: Export Shown top room				vs in this	table: 20	Set Term annotation count: Min: 1			Max: Inf	Set	Visualize this	table: [select	t one]
	Term Name			Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	OI Ge
COPI-coated	l vesicle			78	3.6570e-12	8.1016e-11	2.3587	84	0.31%	200	6.8720e-3	1.5417	
nuclear ubiqu	nuclear ubiquitin ligase complex			79	7.8905e-12	1.7259e-10	2.0832	107	0.39%	257	3.0629e-2	1.3509	
mitochondria	al large ribosor	nal sub	unit	82	1.8730e-11	3.9470e-10	2.0593	106	0.39%	280	4.6402e-2	1.2913	
intrinsic com membrane	ponent of mito	chondr	ial outer	94	1.1241e-10	2.0665e-9	2.2999	76	0.28%	249	2.8891e-2	1.4683	
integral com membrane	ponent of mito	chondr	al outer	97	2.3333e-10	4.1567e-9	2.2902	74	0.27%	272	3.9276e-2	1.4583	
COPI-coated	l vesicle memb	rane		152	3.7887e-7	4.3071e-6	2.0709	59	0.22%	234	2.0250e-2	1.5830	
CD40 recept	or complex			197	8.9994e-6	7.8939e-5	2.4143	32	0.12%	240	2.2580e-2	1.6886	

The test set of 27,353 genomic regions picked 11,120 (59%) of all 18,777 genes.

GO Cellular Component has 1,728 terms covering 17,911 (95%) of all 18,777 genes, and 382,522 term - gene associations.

1,728 ontology terms (100%) were tested using an annotation count range of [1, Inf].

○ GO Molecular Function (5 terms)

Table controls:	Export	~	Shown top rows	in this	table: 20	Set Ter	m annotation o	ount: Min: 1	Max: Inf	Set	Visualize this	table: [select	one]
	Term Name			Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	OI Ge
mitogen-acti	vated protein k	cinase b	oinding	17	3.4213e-17	8.4970e-15	2.3069	130	0.48%	124	4.7474e-4	1.6260	
myosin V bin	ding			20	2.0763e-15	4.3830e-13	2.6896	86	0.31%	215	3.3700e-2	1.5893	
NF-kappaB b	oinding			26	5.8021e-14	9.4217e-12	2.2458	109	0.40%	115	3.1352e-4	1.6283	
cyclin-depen	ident protein se tor activity	erine/th	reonine	49	4.9884e-11	4.2982e-9	2.9663	50	0.18%	220	3.5628e-2	1.6886	
protein kinase B binding			57	2.4401e-10	1.8074e-8	3.1178	43	0.16%	220	3.5628e-2	1.6886		

The test set of 27,353 genomic regions picked 11,120 (59%) of all 18,777 genes.

GO Molecular Function has 4,222 terms covering 16,729 (89%) of all 18,777 genes, and 230,772 term - gene associations.

4,222 ontology terms (100%) were tested using an annotation count range of [1, Inf].

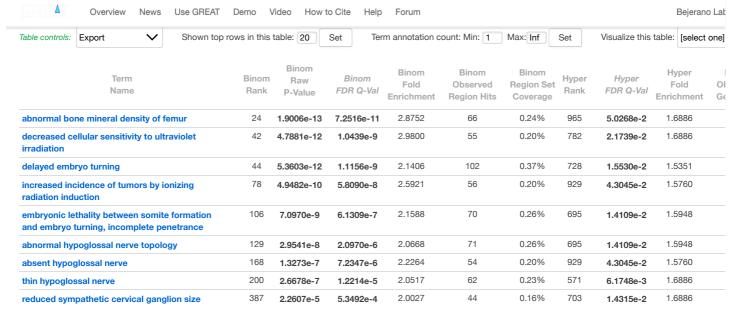
◆ Human Phenotype (1 term)



The test set of 27,353 genomic regions picked 11,120 (59%) of all 18,777 genes.

Human Phenotype has 6,673 terms covering 3,390 (18%) of all 18,777 genes, and 255,152 term - gene associations.

 $6,\!673$ ontology terms (100%) were tested using an annotation count range of [1, Inf].



The test set of 27,353 genomic regions picked 11,120 (59%) of all 18,777 genes.

Mouse Phenotype Single KO has 9,157 terms covering 9,525 (51%) of all 18,777 genes, and 563,371 term - gene associations.

9,157 ontology terms (100%) were tested using an annotation count range of [1, Inf].

■ Mouse Phenotype (11 terms)

Table controls:	Export	/ Shown top re	ows in this	table: 20	Set Ter	Max: Inf	Set	Visualize this	one]			
	Term Name		Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	OI Ge
increased hemangioma incidence			20	5.4273e-19	2.5945e-16	2.3231	143	0.52%	617	3.2891e-4	1.5796	
decreased co	ellular sensitivity to	ultraviolet	51	9.9525e-15	1.8658e-12	2.9300	71	0.26%	856	4.3007e-3	1.6886	
increased re	nal carcinoma incid	lence	75	1.7714e-12	2.2582e-10	3.6610	43	0.16%	1,330	3.8082e-2	1.6886	
abnormal fro	ntal lobe morpholo	gy	87	5.5121e-12	6.0576e-10	2.3256	85	0.31%	1,275	3.2747e-2	1.5760	
increased kid	dney tumor inciden	ce	98	2.1843e-11	2.1310e-9	2.4898	70	0.26%	1,183	2.2162e-2	1.5830	
abnormal sm	nall intestinal crypt	cell proliferation	99	2.8419e-11	2.7446e-9	2.0761	102	0.37%	1,044	1.1307e-2	1.5351	
abnormal hy	poglossal nerve top	oology	225	2.9541e-8	1.2553e-6	2.0668	71	0.26%	1,019	1.0047e-2	1.5948	
absent hypog	glossal nerve		275	1.3273e-7	4.6147e-6	2.2264	54	0.20%	1,275	3.2747e-2	1.5760	
thin hypoglo	ssal nerve		308	2.6678e-7	8.2814e-6	2.0517	62	0.23%	856	4.3007e-3	1.6886	
abnormal ba	se-excision repair		346	8.1333e-7	2.2475e-5	2.4388	39	0.14%	1,330	3.8082e-2	1.6886	
reduced sympathetic cervical ganglion size				2.2607e-5	3.9086e-4	2.0027	44	0.16%	1,024	1.0261e-2	1.6886	

The test set of 27,353 genomic regions picked 11,120 (59%) of all 18,777 genes.

Mouse Phenotype has 9,561 terms covering 9,709 (52%) of all 18,777 genes, and 718,378 term - gene associations.

9,561 ontology terms (100%) were tested using an annotation count range of [1, Inf].



Bejerano Lab



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